

**e-Waste Reporting for Woodlots
Users Manual
Ver 1.1**

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e-Waste Users Manual Ver 1.1

1. Introduction	1
2. Some Legal Points.....	2
2.1 Survey Authorization	2
2.2 Timing.....	3
3. Relationship to RESULTS	4
4. On-Line Help.....	5
5. Rural e-Reality - It Crashes All The Time	9
6. Access to e-Waste	11
7. e-Reporting Some Waste	14
7.1 Information Assembly	14
7.2 Area to be Reported.....	14
7.3 FS 702 - The Old Paper Report	16
7.4 Online Data Entry - First Steps.....	17
7.5 Create a New "Block"	23
7.6 Block Details.....	27
7.7 Create A Dispersed Stratum.....	33
7.8 Create Another Stratum for Landing Piles.....	36
7.9 Standing Trees.....	37
7.10 Enter Waste Species / Type / Volume Data.....	37
7.11 Check / Verify Your Entries.....	41
7.12 Submit	47
8. Reporting Log Decks	52
9. Errors and What to Do	57
9.1 You Find a Data Entry Mistake.....	57
9.2 You Submit and Then See Your Mistake.....	58
10. The End.....	59
11. Appendix 1: Sections of Waste Manual Related to Ocular Estimate Method 1	
12. Appendix 2: Using HBS to Verify a Timber Mark.....	14
12.1 You Are Registered Industrial User with HBS	14
12.2 You Are Not Registered with HBS.....	15
12.3 Query Results	19

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1. Introduction

Might as well let FLNRO explain it:

In British Columbia, rights to harvest Crown timber are conferred through a form of agreements specified under the Forest Act. The agreements may make provisions for the licensees to carry out assessments of the volumes of logging waste left on the harvested areas. Once the field surveys are completed, the residue and waste data are entered into the WASTE system.

WASTE is a web-based system which allows clients to enter, view, and submit waste assessment data via the internet. There is no paper submission. Utilizing the in-box function in the Waste System, the Ministry district staff can instantly approve or reject the surveys on-line.

The WASTE system is electronically interfaced with the Harvest Billing system which enables efficient processing and issuance of the waste invoices.

Like all e-FM things, e-Waste is not hard to use if you are familiar with it. It is a pink breeze compared to RESULTS. Those who use it day in and day out are usually baffled by how baffled the casual "once a year if I have to" user can be.

Purpose of this manual: to help you do a standard, straightforward waste submission for a Woodlot. Especially if you visit e-Waste as infrequently as legally possible.

One thing we should clear up right away is the term "waste". It sounds like prime sawlogs carelessly left in the bush or thrown in the landing pile, that could have/should have been shipped to the sawmill. Well, it could be. But more often, "waste" is oddball pieces of wood that are completely unsalable. A >50% sound cedar butt 6 feet long cut off to make a pole. A deciduous stem the got felled during harvest and left in the woods. The top logs between the company's minimum top size and the MoF minimum top size. The Crown is not saying we could have sold it, they are saying that we cut it down, it is sound wood, they want their stumpage, and the volume must be considered in cut control.

We get relief in the form of The Benchmarks - a set volume of wood that varies by biogeoclimatic zone that we are allowed to leave behind as logging residue. (Logging residue sounds a less judgmental than waste, but no one uses the term.) Thus, the crown does not demand payment for every oddball piece of wood that you cannot sell, but does want compensation if you leave too much "residue" behind. The benchmarks also provide some leeway to retain some coarse woody debris on a harvest site without penalty.

Feedback:

Found a mistake? Typo? Place where I should have explained something better? Please email me at:

tomb@netidea.com

2. Some Legal Points

2.1 Survey Authorization

Measurement of waste wood in a harvested area can be carried out by:

1. A licenced scaler.
2. A licenced waste assessor.
3. A woodlot licensee with written permission from the District Manager to carry out ocular waste estimates on their woodlot, subject to certain restrictions.
4. A member of the Association of BC Forest Professionals (RFT or RPF) operating within the scope of their professional competency.
5. Another person whom a RFT or RPF is willing to supervise and certify the work of.

Note that "with written permission from the District Manager" clause in #3! You need to ask for and receive permission if you wish to proceed under #3. Contact your District Waste person to ask for permission.

Woodlots are allowed to use the Ocular Estimate method of measuring waste if their total waste volume will be under The Benchmark for their area. (See Section 7.6 for info on Benchmarks.) Making this choice assumes that you have a bit of waste knowledge. Legally, if you say "My waste levels will be under the benchmark and so I will use ocular." and your ocular estimate puts you *over* benchmark, you could be required to switch to a plot survey and professional surveyor and "do over". In real world, this does not commonly happen as Section 2.4.3 of the Waste manual specifies that the District Manager can accept a survey done using Ocular Estimate that indicates waste levels exceed the benchmark if "the district manager determines that the revenue risk to the government caused by the use of the ocular estimate option is minimal."

But make an intelligent choice. If you think there is a lot of waste¹, you likely should contact a professional right at the start. The Licencee survey / ocular methods are intended for the usual low waste level situations.

Note that Revenue Branch stresses that the "Ocular Estimate" method *requires* plots.

The details of this are set out in Appendix 1, which contains excerpts from the Provincial Logging Residue and Waste Measurements Procedures Manual, aka the Waste Manual.

You are maybe thinking "This is supposed to be about e-Submissions, not field methods and legal stuff." Correct, but the final step of an e-Submission is to Certify that the reported measurements meet the waste measurement standards and were carried out or certified by a qualified person. Ergo, you will need a coherent rationale based on the above to submit your waste data.

¹ "A lot". Precise term that. Typical ways to exceed the benchmark include:

- Winter logging in rapidly accumulating snow where harvesting crew did not find some buried logs.
- Situation where part of stand profile was not saleable, and was felled and left in bush or in piles. E.g.: Decid in mixed conif/decid stand.
- Major long-butting of sweep or rot to meet market specs.
- All of the above together.

2.2 Timing

For your information:

- A waste survey is required to be completed within 60 days of the completion of primary logging (yarding or skidding), or as soon as the area is sufficiently snow free if snow occurs before that 60 days is up.
- Waste survey results are to be e-Filed within 30 days of survey date.
- There is no legal requirement re: time to pass between e-Submission and any hazard reduction measures (i.e. slash pile burning). However, common courtesy and professional conduct require that you not survey / submit / light in 24 hours. The Southern Interior Region suggests that you inform the District Waste person by email that you have submitted, and wait at least 2 weeks to light up. Other areas suggest that you wait until approval to burn is given. You should contact your District waste specialist to ask.

Woodlots have sometimes missed these targets since 2006 when we became responsible for our own waste surveys. As the dates of logging completion, surveys and filing are all in the e-Waste system, it would be an easy compliance enforcement action for C&E to carry out.

Take home message is simple: meet the target dates and allow some time for District to check your survey work if they choose to.

3. Relationship to RESULTS

A lot of Licencees who are just getting started at this think they report their Waste to RESULTS.

Nope, RESULTS is a totally different beast in which we track our legal silvicultural obligations and our success in meeting said obligations.

e-Waste is to report waste and incur the appropriate billing for wasted timber volume.

However, certain items are reported to both RESULTS and e-Waste:

- Year logging started
- Year logging finished
- Logging completion date (year-month-day)
- Area of harvest

It is not required, but I think it is sound policy to tell RESULTS and e-Waste the same thing.

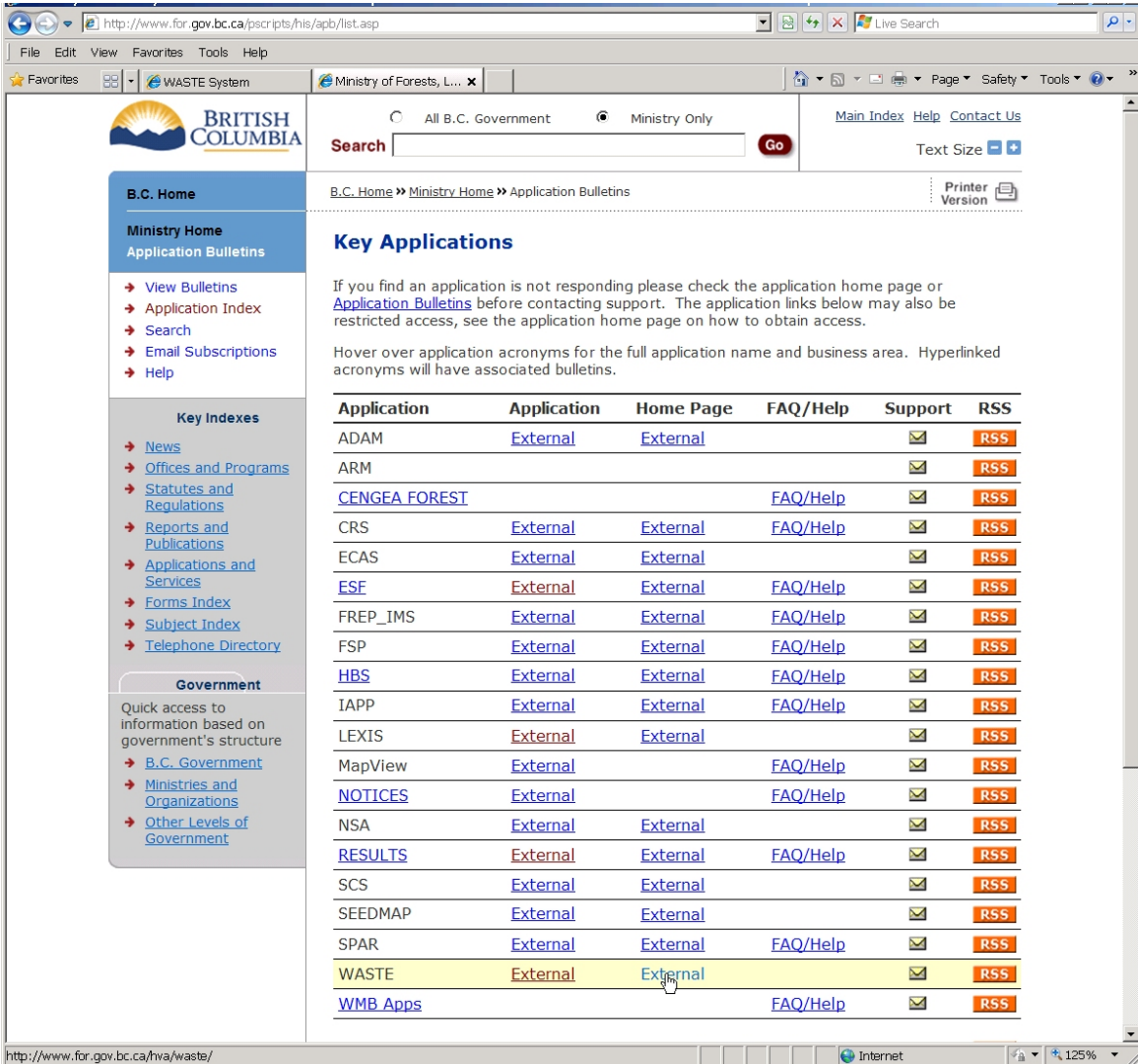
4. On-Line Help

The e-Waste system has a pretty nice on-line help facility.

That is not maintained and thus has fallen seriously out of step with the actual submission program specs and which contains some simply incorrect information. Ouch. This situation is common to all e-Systems.

If you are stumped by something and I have failed to cover it in this manual, it is worth having a look in there. It might give you some ideas to try.

Usual Starting location, <http://www.for.gov.bc.ca/pscripts/his/apb/list.asp> but this time you want the Waste - Home Page.



The screenshot shows the British Columbia Government website. The left sidebar contains navigation links for 'B.C. Home', 'Ministry Home', 'Application Bulletins', 'Key Indexes', and 'Government'. The main content area is titled 'Key Applications' and includes a table of applications. The table has columns for Application, Application, Home Page, FAQ/Help, Support, and RSS. The 'WASTE' application is highlighted in yellow.

Application	Application	Home Page	FAQ/Help	Support	RSS
ADAM	External	External			RSS
ARM					RSS
CENGEA FOREST			FAQ/Help		RSS
CRS	External	External	FAQ/Help		RSS
ECAS	External	External			RSS
ESF	External	External	FAQ/Help		RSS
FREP_IMS	External	External	FAQ/Help		RSS
FSP	External	External	FAQ/Help		RSS
HBS	External	External	FAQ/Help		RSS
IAPP	External	External	FAQ/Help		RSS
LEXIS	External	External			RSS
MapView	External		FAQ/Help		RSS
NOTICES	External		FAQ/Help		RSS
NSA	External	External			RSS
RESULTS	External	External	FAQ/Help		RSS
SCS	External	External			RSS
SEEDMAP	External	External			RSS
SPAR	External	External	FAQ/Help		RSS
WASTE	External	External			RSS
WMB Apps			FAQ/Help		RSS

And then the Waste System User Procedures Web Help link over on the left margin.

The screenshot displays the 'WASTE System' web application. The left sidebar, under the 'Help Resources' section, lists various documents. The link 'Waste System User Procedures (Web Help)' is highlighted, indicating the user's current selection. The main content area provides an overview of the system, explaining its purpose for recording logging waste information and detailing the Electronic Submission Framework (ESF) for data submission.

Which takes you to:

Overview

In British Columbia, rights to harvest Crown timber are conferred through a form of agreements specified under the Forest Act. The agreements may make provisions for the licensees to carry out assessments of the volumes of logging waste left on the harvested areas. Once the field surveys are completed, the residue and waste data are entered into the WASTE system.

WASTE is a web-based system which allows clients to enter, view, and submit waste assessment data via the internet. There is no paper submission. Utilizing the in-box function in the Waste System, the Ministry district staff can instantly approve or reject the surveys on-line.

The WASTE system is electronically interfaced with the Harvest Billing system which enables efficient processing and issuance of the waste invoices.

For a list of changes to the latest WASTE System version, please refer to [1.1 What's New](#)

Lots of info lurks in the expandable help directories in the left column. As we are working on data entry, click the wee blue book beside Data Entries to expand that folder.

2.6 Waste 205

2.6.1 Waste Plot Details

Waste System

Annual Plan Reporting Unit Reports

Piece #	Species	Kind	Waste Class	Length (dm)	Top Piece Top End (rad)	Butt (rad)	Butt End Grade	Border Line	Length (dm)	Top Piece Top End (rad)	Butt Decay Corner	Type	Code
1	HE	L	A	45	15 C	20 C	X - Grade X	I					
2	SP	L	A	56	20 C	30 C	U - Grade U	I			2	3 S	CF
3	HE	S	U	3	30 C	C	U - Grade U	I					
4	CE	W	A	23	14 C	25 C	U - Grade U	I					

Species: AL, Alder; AR, arbutus; AS, Aspen; BA, Balsam; BI, Birch; CE, Cedar; CO, Cottonwood; CY, Cypress; FI, Fir; HE, Hemlock; LA, Larch; LO, Lodgepole Pine; MA, Maple; OT, Others; R, Reject (Not used); SP, Spruce; UU, Pacific Yew; WA, (Not used); WB, Whitebark Pine; WH, White Pine; WI (Willow); YE, Yellow Pine.

Kind:

B - Breakage, less than 3m, and broken at one or both ends;

D - Downed trees exceeding the timber merchantability specifications;

L - Logs or slabs at least 3m in length;

And lots of choices appear. The help info is keyed to Waste Page number - all the waste online entry forms have a page number that displays on top left of the page. As a woodlot, you probably want the 2.6.2 Ocular Estimate info:

Contents Glossary Search Print This Topic - Search - Ministry of Forests and Range

2.6.2 Ocular Estimate

- 1. Overview
- 2. Data Entries
 - 2.1. Waste 501 Reporting Units
 - 2.2. Waste 101 Reporting Unit Details
 - 2.3. Waste 106 Block Search
 - 2.4. Waste 102
 - 2.4.1. Waste Types (Sub populations)
 - 2.5. Waste 204 (Plots)
 - 2.6. Waste 205
 - 2.6.1. Waste Plot Details
 - 2.6.2. Ocular Estimate**
 - 2.6.3. Percent Estimates
 - 2.6.4. 100 Percent Scale
 - 2.7. Waste 303 - Submission Agreeeme
 - 2.7.1. Completing 303
 - 2.7.2. Waste 303 - Attach Survey Map
 - 2.7.3. Viewing 303 Comments and Maj
 - 2.7.4. Notation
 - 2.8. Waste 104 - Multi-mark and Parer
 - 2.8.1. Multi-mark Procedure
 - 2.8.2. Parent Block Procedure
- 3. Search Functions
- 4. Reports
- 5. Electronic Submission Framework
- Appendices

Species: : AL, Alder; AR, arbutus; AS, Aspen; BA, Balsam; BI, Birch; CE, Cedar; CO, Cottonwood; CY, Cypress; FI, Fir; HE, Hemlock; LA, Larch; LO, Lodgepole Pine; MA, Maple; OT, Others; R, Reject (Not used); SP, Spruce; UU, Pacific Yew; WA, (Not used); WB, Whitebark Pine; WH, White Pine; WI (Willow); YE, Yellow Pine.

Kind:

- B - Breakage, less than 3m, and broken at one or both ends;
- D - Downed trees exceeding the timber merchantability specifications;
- L - Logs or slabs at lease 3m in length;
- S - Stumps;
- T - Standing trees exceeding the timber merchantability specifications;

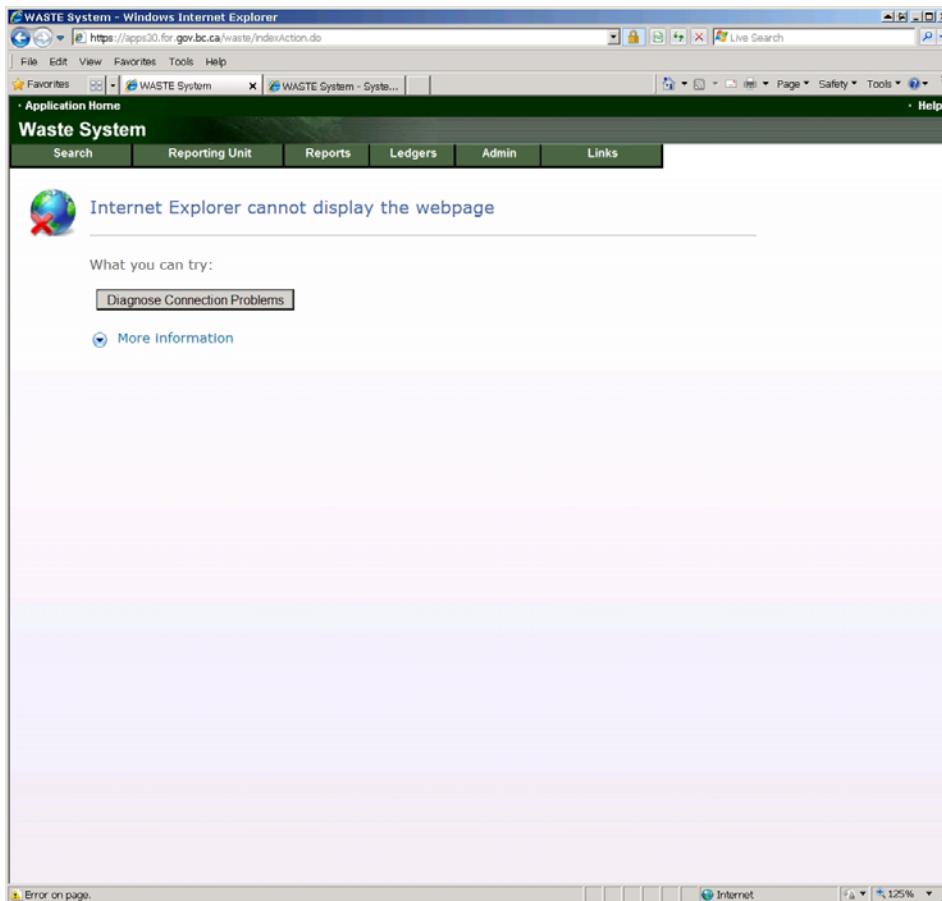
But you are of course free to look around at anything that piques your interest.

5. Rural e-Reality - It Crashes All The Time

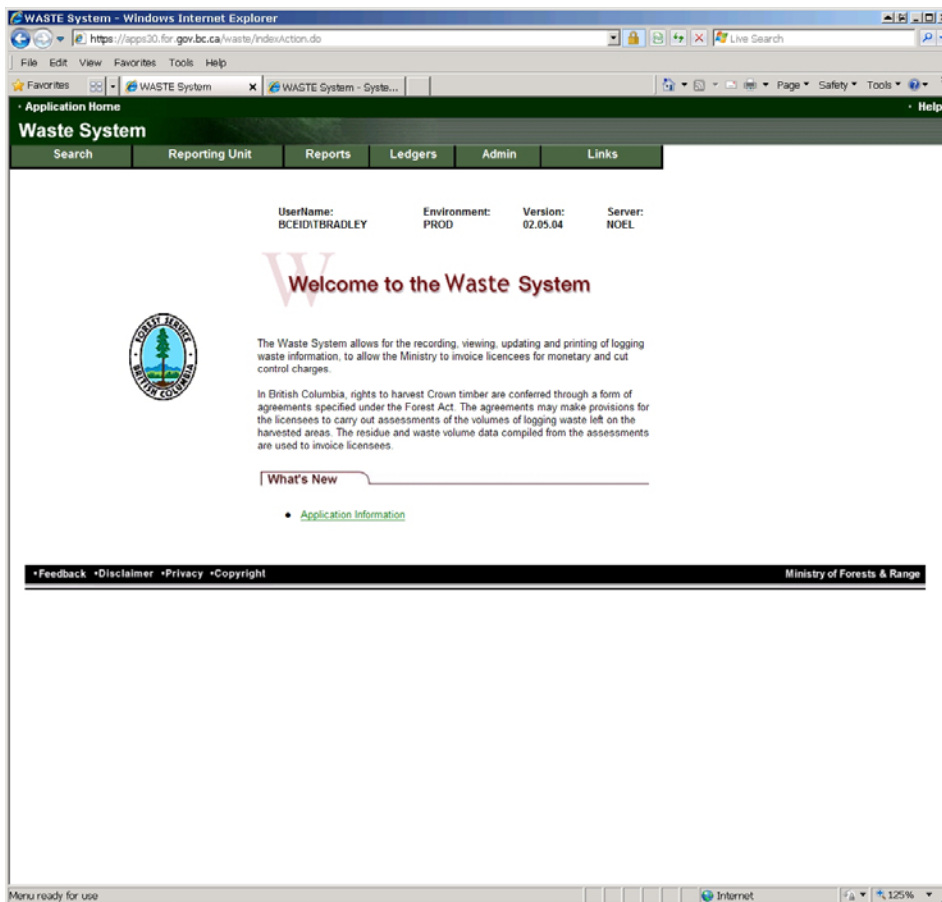
It is not a good thing.

You have to use Internet Explorer with govt e-Systems. Other browsers just do not work.

But good 'ol IE is incredibly impatient. And e-Waste can be very slow. As a result, you see the screen below over and over and over when you are working on rural internet connections. It means IE got tired of waiting.



All you can do it hit your F5 key to Refresh. It will usually whinge about having to resend the information you have already submitted, you will tell it "OK, whatever, just fix this." and then you will drop back into:



Page 1. Whatever you were working on is lost. Mercifully, or by good design, e-Waste gets you to save very frequently, so the actual data loss and redo is generally very minimal. But you will now start with a Reporting Unit Search, which is Step 1 of process. By the 5th + time you do the Reporting Unit - Search - Details - Details - Details mouse click cycle to file one blasted report.... Well, it can get a bit frustrating.

It is just how it is. If your internet has good days and bad days, like mine, take it as a not very subtle message to do something else till it your connection is feeling more perky.

And if you know how/where to set IE so it waits longer, please tell me!

6. Access to e-Waste

Like all the e-FM systems, you have to ask for permission to use it.

My favorite starting place for all e-FM things is the e-FM Application Index at:

<http://www.for.gov.bc.ca/pscripts/his/apb/list.asp>

The screenshot shows a web browser window displaying the Ministry of Forests, Lands and Natural Resource Operations website. The page is titled "Key Applications" and lists various applications with links to their home pages, FAQs, and support pages. The "WASTE" application is highlighted in yellow.

Application	Application	Home Page	FAQ/Help	Support	RSS
ADAM	External	External			RSS
ARM					RSS
CENCEA FOREST			FAQ/Help		RSS
CRS	External	External	FAQ/Help		RSS
ECAS	External	External			RSS
ESF	External	External	FAQ/Help		RSS
FREP_IMS	External	External	FAQ/Help		RSS
FSP	External	External	FAQ/Help		RSS
HBS	External	External	FAQ/Help		RSS
IAPP	External	External	FAQ/Help		RSS
LEXIS	External	External			RSS
MapView	External		FAQ/Help		RSS
NOTICES	External		FAQ/Help		RSS
NSA	External	External			RSS
RESULTS	External	External	FAQ/Help		RSS
SCS	External	External			RSS
SEEDMAP	External	External			RSS
SPAR	External	External	FAQ/Help		RSS
WASTE	External	External			RSS
WMB Apps			FAQ/Help		RSS

Note: It is recommended you subscribe to Infrastructure bulletins as these may apply to several or all of the applications.

Subscribe to receive all bulletins for all applications.

Related Links

- [e-FM - Electronic Forest Management](#)

Select the WASTE Home Page, per screenshot above.

Once you are there, click on the Request Access link.



You get dropped into a form, fill it in.


I am always challenged when filling out these things for my own tenure - you are basically asking the govt to ask you if it is OK if you do things. Whatever. Fill it in as best you can, submit, and when contacted, say it is OK for you to have permission.

You will note that in mid-form it asks for User Name . As persons outside govt wanting access to the govt system, that means your BCeID user name.

No BCeID? You have to get one. Go to

<https://www.bceid.ca/register/>

and apply for a Business BCeID.

<input type="radio"/> All B.C. Government <input checked="" type="radio"/> Ministry Only		Main Index Help Contact Us
Search <input type="text"/>		Go <input type="button" value="Go"/>
		Text Size <input type="button" value="-"/> <input type="button" value="+"/>
B.C. Home » Ministry Home » HVA » Systems » WASTE » Requesting Access		
Printer Version 		
<h2>Logging Residue and Waste System (WASTE)</h2>		
<h3>Requesting Access</h3>		
Forest Region *	<input type="text" value="Southern Interior Forest Region"/>	
Business Role *	<input type="text" value="Data Entry and Submit"/>	
Business Group *	<input type="text" value="Surveyor/Contractor/Industry Staff"/>	
Applicant		
Name *	<input type="text" value="Tom Bradley"/>	
Company	<input type="text" value="Woodlot Forestry Services Ltd."/>	
Division	<input type="text"/>	
Email *	<input type="text" value="tomb@netidea.com"/>	
Phone	<input type="text" value="250-226-7792"/>	
User Name *	<input type="text" value="BCEID"/> <input type="text" value="Tbradley"/>	
Tenure Holder		
Company Name	<input type="text" value="Winlaw Creek Woodlot Ltd"/>	
Licence Numbers	<input type="text" value="W1832"/>	
Client # or Org Unit *	<input type="text" value="00142700"/>	
* Mandatory Field		
Tenure Supervisor		
Name	<input type="text" value="Tom Bradley"/>	
Email	<input type="text" value="tomb@netidea.com"/>	
Phone	<input type="text" value="250-226-7792"/>	
Position	<input type="text" value="Forestry Supervisor"/>	
		<input type="button" value="Submit"/> <input type="button" value="Reset"/>

7. e-Reporting Some Waste

7.1 Information Assembly

You will need some information at hand to do this. The table below is an outline of what is required.

Forest District										
Tenure/Licence										
Timber Mark										
BEC Subzone										
For All Waste Volumes										
	Strata 1				Strata 2				Strata 3	
Species										
Log Grade										
Avoidable?										
Unavoidable?										
Volume (m3 or m3/ha)										
Area (ha)										
Situation: Dispersed in block? Landing pile? Abandoned log deck? Other?										

You do not have to break a block into strata. One stratum over entire block is fine. But the survey should be stratified if there are significantly different waste levels in different parts of the block. (eg: part summer logged, part winter logged in deep snow.)

In all cases, landing accumulations are calculated separately from dispersed waste in the block itself. While not necessarily a stratum, landing accumulations are processed similarly to a stratum.

In short, you need

1. the admin info,
2. the volume by species / log grade / waste class for all waste,
3. what type of waste it is, and
4. stratum area.

The volume by species / log grade / waste class data set can get pretty complicated. That is, you may have a lot more than the 4 types per stratum suggested by the simple form above.

7.2 Area to be Reported

We report dispersed waste separately from landing piles, as different "strata". But each strata must have an area. We need to tell it how big the block with dispersed waste in it is and how big the landing pile(s) is.

For the block area, do we tell it Gross Area? Net Area Reforestable (NAR)?

The waste instructions say:

Enter the net area of the cut block. Ensure the total stratum areas must equal to the block net area otherwise you won't be able to submit a block.

The on-line e-Waste help says:

Net Area for the block must be equal to the net area for the strata (dispersed, accumulation and Standing Trees)

The Waste Manual says:

Quantifies, in hectares, the total area of all stratum areas available for sampling and/or estimating. This area includes any accumulation areas not within a cut-block such as in helicopter logging or when logs are skidded off a cut-block to a nearby central landing area. Landings will include only the area of the actual waste piles.

Queries to Waste personnel produce:

Net area is intended to be area per ECAS Appraisal. For woodlots on Tab rates, actual areas should be reported. If your total area is 20.1 ha your dispersed may be reported as 20 ha and your accumulations as 0.1 ha. Dispersed and accumulation area need to add up to total area.

and

The total waste area is best described as the area you cut trees from less the area of road surface (or other non productive land) within that area. It is not the NAR but can be very close to the same number.

Generally sounds a lot like NAR, but not quite the same. It seems reasonable to look up how big you told or will tell RESULTS the NAR is and consider starting with the same number.

Now, estimate the area in hectares covered by your landing piles. Really. Say landing pile is 15 m x 8 m. $(15 * 8)/10000 = 0.012$ ha. The system will only take numbers down to second decimal place, so we round this to 0.01 ha.

Now, the system demands that the total strata area reported = waste net block area. So if your landing is 0.01 ha, do you:

1. Subtract 0.1 ha from your NAR and allocate it to landing pile to make the numbers balance?
2. Increase Waste Net Area to NAR + 0.1 ha because your landing pile is on man made NP, not NAR?
3. Wonder why forest policy has come down to trying to figure out how to allocate 1/100th of a ha?

Choice 3 would seem a given to me.

But seriously, you can do either 1 or 2. I lean towards Choice 1 so my RESULTS NAR and Waste Net Area balance. This is not required, it is a personal choice.

Dispersed Strata Area = RESULTS NAR - Landing Pile Area

and

$$\text{Waste Net Area} = \text{RESULTS NAR}$$

You can refuse to classify a landing pile as part of NAR and go with Choice 2.

$$\text{Waste Net Area} = \text{Dispersed Strata Area} + \text{Landing Pile Area}$$

also expressible as

$$\text{Waste Net Area} = \text{RESULTS NAR} + \text{Landing Pile Area}$$

Whatever. Make a choice and get on with it. It *is* overly fussy, and remember goal is to get this done.

7.3 FS 702 - The Old Paper Report

A lot of waste surveyors still use the old FS702 Waste Form or its equivalent to organize information. An example is shown below. The information you need to make an e-Waste submission is almost all in the form.

Southern Interior Forest Region Residue and Waste - Ocular Estimate Form

Use forward slash "/" between year/month/day. Tab between entries.

RSI

District No.:	57	District Name:	Selkirk Resource District	Licensee:	Winlaw Creek Woodlot Ltd
Residue Survey Date: (dd/mm/yy)	13/08/2013	Geographic Location:	SW Trozzo Ck		
Tenure Licence Number:	W1832	C.P. No.:	R14271 Sec5	Cut Block:	Timber Mark: WBJCR1
Reporting Unit:	RU	Return Number:			
Leading Specie (Only one):	FI	(Use Scaling Codes)			
Biogeoclimatic Zone:	ICHmw2	Primary Logging Completed:(Enter yyyy/mm/dd) 01/10/2012			
Waste Billing Benchmark m3/ha:	20.0	(E)			

NOTE: Forms to be received by District within 60 days of primary logging completion and ground free of snow.

Use Landings Worksheet to calculate accumulation areas and volumes.

Tab between cells to enter data. Many cells are locked to port Report landings to the nearest .01 of a ha

Check "Landings" Worksheet if used.								
Report Survey Area to nearest 0.1 ha	Dispersed Area (ha) to nearest 0.1 ha	Report landings to the nearest .01 of a ha	Accumulations: Piled Landing & Roadside Area (ha)	Abandoned Log Decks (ha) (>5 logs ea.)	Unharvested Partial Cut Tree Area (ha)	Unharvested Areas w/Standing Trees or F&B (ha)	Total Net Area Surveyed = A (Hectares)	
Hectares	0.99		0.01				1.00	
Avoidable Waste Billable Volume to 0.1 m3.			Total Landing Area (ha) =		0.01			
Use Scaling Species Codes	Scaling Log Grade Codes	Dispersed Volume per hectare (m3/ha) estimated	Calculated Dispersed volume (m3/ha times ha)	Regular Landing Volume To nearest 0.1 m3	Abandoned Log Deck Volume To nearest 0.1 m3	Unharvested Partial Cut Tree Vol. To nearest 0.1 m3	Unharvested Standing Tree or F&B m3 to nearest 0.1 m3	TOTAL Avoidable Waste Volume M3
	Conifer SL Gr 1							0.0
FI WA	Conifer SL Gr 2	0.2	0.2	1.8				2.0
CE WA	Conifer Green Gr 4			0.9				0.9
	Decid SL Gr 1							0.0
	Decid SL Gr 2							0.0
	Decid Green Gr 4							0.0
Conifer Sawlog Grades 1, 2 Volume (m3) Subtotal								2.0
Deciduous Sawlog Grades 1, 2 Volume (m3) Subtotal								
Coniferous & Deciduous Total Billable SL Gr 1 & 2 Waste Volume (m3)								2.0
Coniferous & Deciduous Sawlog Grade 4 Volume (m3) Subtotal								0.9

Unavoidable Waste Volumes to 0.1 m3.

Scaling Species Codes (Use Leading Specie)	Unavoidable Waste Scaling Log Grade	Dispersed Volume per hectare (m3/ha) estimated	Calculated Dispersed Volume (m3/ha times ha)	Regular Landings To nearest 0.1 m3	Abandoned Log Decks To nearest 0.1 m3	Unharvested Partial Cut Tree Vol. To nearest 0.1 m3	Unharvested Standing Tree Volumes To nearest 0.1 m3	TOTAL UNAVOIDABLE WASTE VOLUME M3
WH	All Unavoidable Sawlog Gr 1, 2, Green Gr 4							
Non-Billable Volume (m3) Subtotal =								0.0

Avoidable Waste Volume (m3) Sawlog Grades 1, 2 and 4 =	2.9	Avoidable and Unavoidable Volume (m3) =	2.9
Monetary Adjustment Factor Calculation for Waste Billing			
Grades 1 & 2 Billable Waste m3 per ha = (m3/ha)	2.0	(D)	% Billable Waste Found in Landings = 138%
Gr 4 Billable m3/ha =	0.9		Waste Benchmark = 20
Unavoidable Vol./ha = C / A		m3/ha	Waste Monetary Reduction Factor = 0.0000
			WMRF
			O

Enter Survey Type: O=Ocular, P=Parent Block info., R=Reduced Sampling Int., B=Block or 100% Scale, A=Aggregate:

Enter Parent Block Tenure Number:	Cutting Permit Number:	Block:
Parent Block Survey Year: (yyyy)	PB Reporting Unit Number	PBE m3/ha
Enter previously residue surveyed (ha)	Area remaining to be logged & surveyed (ha)	
Comments	23 R/W piles outside BLK	

NOTE: When entering dates, use forward slash "/" between year/month/day.

For monitoring purposes, copy of maps, location of landings sampled and copy of data collection or ocular form may be requested.

The wasted timber volume compromised the site-specific forest management objective(s). Yes or No: NO

I hereby submit the above estimates in lieu of a Full Survey Survey. Documentation will be provided upon request.

Licensee Signature:	Scaling/Waste
Surveyor/RFT/RPF Signature:	Licence # 964D RFT/RPF #
Date Completed (yyyy/mm/dd): 13/08/2013 (Survey Completion)	
Survey submitted/sponsored by an RPF or RFT, enter RPF or RFT name:	RFT/RPF #
NOTE: Unlicensed Surveyors/Scalers must be sponsored by an RPF or RFT.	Date Completed (yyyy/mm/dd):
Has this survey been field checked by District Staff?	Yes No
Has this survey been accepted for processing?	Yes No
If this survey has been rejected, the reasons are as follows:	
Ministry Signature:	Date (yyyy/mm/dd):

7.4 Online Data Entry - First Steps

I always go to the same place to start: the e-FM application index at

<http://www.for.gov.bc.ca/pscripts/his/apb/list.asp>.

This time, I want WASTE Application

The screenshot shows the website of the Ministry of Forests, Lands and Natural Resource Operations of the Province of British Columbia. The page is titled 'Key Applications' and lists various applications available for users. The 'WASTE' application is highlighted in yellow, indicating it is the selected application.

Application	Application	Home Page	FAQ/Help	Support	RSS
ADAM	External	External			RSS
ARM					RSS
CENCEA FOREST			FAQ/Help		RSS
CRS	External	External	FAQ/Help		RSS
ECAS	External	External	FAQ/Help		RSS
ESE	External	External	FAQ/Help		RSS
FREP_IMS	External	External	FAQ/Help		RSS
FSP	External	External	FAQ/Help		RSS
HBS	External	External	FAQ/Help		RSS
IAPP	External	External	FAQ/Help		RSS
LEXIS	External	External			RSS
MapView	External		FAQ/Help		RSS
NOTICES	External		FAQ/Help		RSS
NSA	External	External			RSS
REGUATS	External	External	FAQ/Help		RSS
SCS	External	External			RSS
SEEDMAP	External	External			RSS
SPAR	External	External	FAQ/Help		RSS
WASTE	External	External			RSS
WMB Apps			FAQ/Help		RSS

Note: It is recommended you subscribe to Infrastructure bulletins as these may apply to several or all of the applications.

Subscribe to receive all bulletins for all applications.

Related Links

- [e-FM - Electronic Forest Management](#)

I get dropped into a standard BCeID sign in page. As noted in Section 6. , you need to have "permission" to use e-Waste, and that permission is keyed to your BCeID.

BRITISH COLUMBIA

Help ?

Ligon

BCeID

apps30.for.gov.bc.ca requires you to logon.

Business BCeID User

BCeID: Tbradley

Password:

Government User

Forgot My BCeID

Forgot My Password

Next

Access to or unauthorized use of data on this computer system by any person other than the authorized employee(s) or owner(s) of an account is strictly prohibited and may result in legal action against such person.

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After clicking next, I get the screen below, for reasons stated on the screen. I no longer recall how it works if you have permission to submit waste reports for just one woodlot, but I think you may not see the screen.

WebADE Organization Selector

We have detected that you have the ability to act on behalf of multiple organizations.

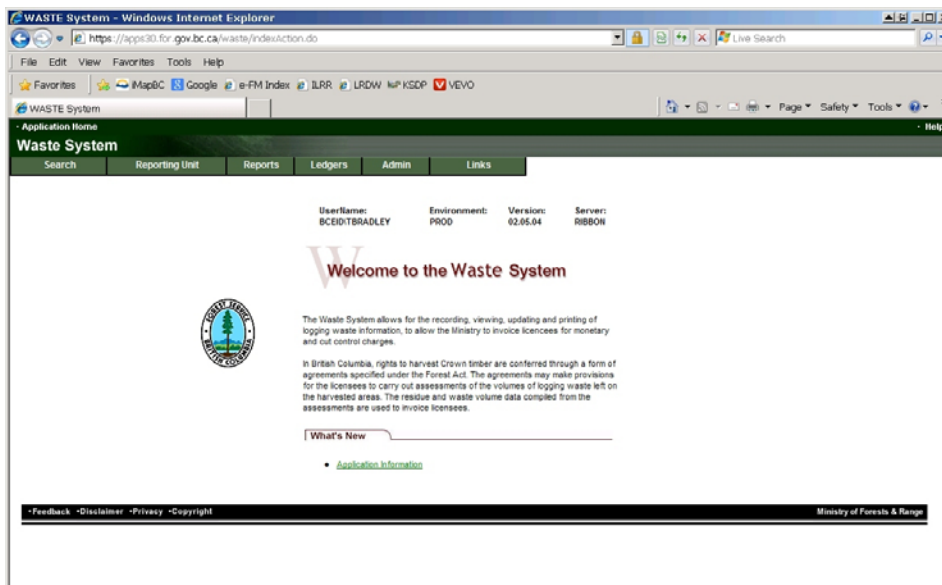
From this screen you can choose which organization you are going to do work on behalf of for this session. Once you have selected an organization from the list, choose "Continue" and you will be acting on behalf of that organization for the entire session. In order to change to another organization, simply close the browser and restart your session with this application and you will be prompted with this dialog again.

00142700 - WINLAW CREEK WOODLOT LTD.

Set as Default: ☐

Continue

Next, I get dropped in to the e-Waste reporting system Welcome page.



So now what? Well, there are a flock of things you can do and multiple ways to do them, but let's keep it simple.

Click on Reporting Unit in the top of screen menu bar. Then Create/Search Reporting Units.



Unsurprisingly, a rather standard e-FM search form comes up. Note the title: Waste 501: Reporting Units. All the screens in e-Waste are numbered. If you are looking for more help on how/what to do, the on line help is keyed to those screen numbers.

The form knows who I am - I just told the system a minute ago and it remembers - and as this is a Woodlot and Woodlots generally only have one reporting unit, I just click Search.

Application Home Help

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

WASTE501 - Reporting Units

Forest District: Licensee:
 Sampling Option: WASTE Block Status:

0 rows returned

Proposed CV (%)

Reporting Unit ID Forest District Sampling Option Dispersed Accumulated

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It finds what looks like a reporting unit for my Woodlot. Click on Details.

Application Home Help

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

WASTE501 - Reporting Units

Forest District: Licensee:
 Sampling Option: WASTE Block Status:

1 rows returned

Proposed CV (%)

Reporting Unit ID Forest District Sampling Option Dispersed Accumulated

Reporting Unit ID	Forest District	Sampling Option	Dispersed	Accumulated	
11045	DAB - Arrow Boundary Forest District	OCU - Ocular			<input type="button" value="Update"/> <input type="button" value="Details"/> <input type="button" value="Delete"/>

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Well! Reporting Unit 11045 contains past e-Waste reports for my woodlot. This is surely where I want to be. I click the Details option, and a new screen called Waste 101 opens up.

Application Home Help

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

WASTE501 - Reporting Unit Details

[Back](#)

Reporting Unit ID: [Go](#) [Delete RU](#) Forest District: Licensee: WINLCRW Option: Dispersed CV (%): Accumulated CV (%):

Blocks

8 rows returned 303

Licence No.	Cutting Permit	Block	Timber Mark	Exempted	Net Area (ha)	SDM Block Status	Comments	
W1832			WBJCR1	N	.10 67725482	Billing Issued (2011-12-08 12:13:42 PM)	YM	Details Update Deactivate Delete Rebill Review Billing
R14271			R14271	N	.23 67571721	Billing Issued (2010-02-02 03:03:25 PM)	YM	Details Update Deactivate Delete Rebill Review Billing
W1832	C	3	W1832C	N	.01 67551725	Billing Issued (2009-10-29 03:46:27 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	1	W1832C	N	.01 67551724	Billing Issued (2009-10-29 03:46:26 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	3	W1832C	N	.50 67551588	Billing Issued (2009-10-29 03:43:57 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	2	W1832C	N	2.70 67551587	Billing Issued (2009-10-29 03:43:56 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	1	W1832C	N	24.30 67551586	Billing Issued (2009-10-29 03:43:55 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	B	1	W1832B	N	45.35 67551585	Billing Issued (2009-10-29 03:43:54 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
Total:					73.20			

[Back](#)

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Now, the alternative: You search, nothing comes up and System says No records found. Means no reporting unit defined for your WL yet.

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

No records found

WASTE501 - Reporting Units

Forest District: Licensee: Sampling Option: WASTE Block Status:

[Search](#) [Clear](#)

0 rows returned

Proposed CV (%)

Reporting Unit ID	Forest District	Sampling Option	Dispersed	Accumulated	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Save Cancel

No Problems. Define one.

Tell it your District and Survey method (ocular most likely - you are a woodlot - see Section 2.1 if in doubt.):

• Application Home • Help

Waste System

Search
Reporting Unit
Reports
Ledgers
Admin
Links

• No records found

WASTE501 - Reporting Units

Forest District:

Sampling Option:

Licensee:

WASTE Block Status:

0 rows returned

Proposed CV (%)

Reporting Unit ID	Forest District	Sampling Option	Dispersed	Accumulated	
	<input type="text" value="DOS - Okanagan Shuswap Forest"/>	<input type="text" value="OCU - Ocular"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Save"/> <input type="button" value="Cancel"/>

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And Save . A reporting unit!

• Application Home • Help

Waste System

Search
Reporting Unit
Reports
Ledgers
Admin
Links

• Save successful.

WASTE501 - Reporting Units

Forest District:

Sampling Option:

Licensee:

WASTE Block Status:

1 rows returned

Proposed CV (%)

Reporting Unit ID	Forest District	Sampling Option	Dispersed	Accumulated	
	<input type="text" value="DOS - Okanagan Shuswap Forest"/>	<input type="text" value="OCU - Ocular"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Save"/> <input type="button" value="Cancel"/>
18331	DOS - Okanagan Shuswap Forest District	OCU - Ocular			<input type="button" value="Update"/> <input type="button" value="Details"/> <input type="button" value="Delete"/>

Again, click the new Details option, and a new screen called Waste 101 opens up.

7.5 Create a New "Block"

Taking your cues from the existing data, tell it about the harvesting activity that you wish to report Waste for. In my case, I am reporting roadside piles and a landing pile along a (relatively) recently constructed road build under my Road Permit. The waste info I plan on reporting is shown on that FS 702 form a few pages back.

So I put some info in the blank data entry line at the top of the stack, as shown below:

WASTE101 - Reporting Unit Details

[Back](#)

Reporting Unit ID: [Go](#) [Delete RU](#) Forest District: DAB - Arrow Boundary Forest District

Licensee: WINLCRW Option: Ocular

Dispersed CV (%): Accumulated CV (%):

Blocks

8 rows returned

Licence No.	Cutting Permit	Block	Timber Mark	Exempted	Net Area (ha)	SDN Block Status	Comments
W1832	*	<input type="text"/>	WBJCR1	N	1		
W1832			WBJCR1	N	.10	67725482	Billing Issued (2011-12-08 12:13:42 PM) YM Details Update D
R14271			R14271	N	.23	67571721	Billing Issued (2010-02-02 03:03:25 PM) YM Details Update D

And then click **Save**.

Obviously, the entry would be somewhat different if I was reporting waste for a CP / Block harvest.

Note: If you are reporting waste in the Interior and have a log deck by the road that will not be shipped or groups of logs left in the block after harvest, please see Section 8. . In the Interior, any pile containing 5 or more logs is excluded from the Benchmarks and must be reported as a separate submission with 0 m³/ha benchmark. This does not apply on the Coast, where such accumulations do fall under the benchmarks.

Very gratifyingly, I get a refreshed screen with **Save Successful**. Progress is being made:

Application Home Help

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

• Save successful.

WASTE101 - Reporting Unit Details

[Back](#)

Reporting Unit ID: [Go](#) [Delete RU](#) Forest District: DAB - Arrow Boundary Forest District

Licensee: WINLCRW Option: Ocular

Dispersed CV (%): Accumulated CV (%):

Blocks

9 rows returned 303 Comments

Licence No.	Cutting Permit	Block	Timber Mark	Exempted	Net Area (ha)	SDN Block Status	Comments	
W1832			WBJCR1	N	1.00	Draft (2013-11-27 02:16:06 PM)	H	Details Update Deactivate Delete Submit
W1832			WBJCR1	N	.10 67725482	Billing Issued (2011-12-08 12:13:42 PM)	YM	Details Update Deactivate Delete Rebill Review Billing
R14271			R14271	N	23 67571721	Billing Issued (2010-02-02 03:03:25 PM)	YM	Details Update Deactivate Delete Rebill Review Billing
W1832	C	3	W1832C	N	.01 67551725	Billing Issued (2009-10-29 03:46:27 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	1	W1832C	N	.01 67551724	Billing Issued (2009-10-29 03:46:28 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	3	W1832C	N	.50 67551588	Billing Issued (2009-10-29 03:43:57 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	2	W1832C	N	2.70 67551587	Billing Issued (2009-10-29 03:43:56 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	C	1	W1832C	N	24.30 67551586	Billing Issued (2009-10-29 03:43:55 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
W1832	B	1	W1832B	N	45.35 67551585	Billing Issued (2009-10-29 03:43:54 PM)	Y	Details Update Deactivate Delete Rebill Review Billing
Total:					74.20			

[Back](#)

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There is a new "block" with Draft status, 1 ha big, linked to my road permit timber mark.

Next? Well we have a choice of:

- Details** e-Waste code for "more info and/or entry blanks hidden here"
- Update** Re-opens the "block" input screen you just used so you can edit timber mark, area, etc if you realize you made a mistake.
- Deactivate** Don't know what this does.
- Delete** Not helpful, unless you suddenly realize you have no waste to enter.
- Submit** A bit premature! Need to enter data before submitting.

Unsurprisingly, I choose Details . A new screen! Waste 102 - Block Details. (Note: This is the Interior screen. Coast screen slightly different.)

Application Home Help

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

Waste102 - Block Details

[Back](#)

Reporting Unit ID:	11045	Forest District:	DAB - Arrow Boundary Forest District
Licensee:	WINLCRW 00	Option:	Ocular
Dispersed CV (%):		Accumulated CV (%):	

Licence No:	W1332	Cutting Permit:	
Block:		Timber Mark:	WBUCR1
WASTE Block Status:	DFT - Draft	Exempted Block:	N
Harvest Status:			

Years Logged From:	<input type="text"/> *	Years Logged To:	<input type="text"/> *
Primary Logging Completion Date:	<input type="text"/> *	Survey Date:	<input type="text"/> *
Disturbance Start Date (from FTA):	<input type="text"/> *	Disturbance End Date (from FTA):	<input type="text"/> *
Net Area (ha):	<input type="text"/> *	Gross Disturbance Area (ha) (from FTA):	<input type="text"/> *
Remaining Harvest Area (ha):	<input type="text"/> *	Harvest Status:	<input checked="" type="radio"/> Complete <input type="radio"/> Incomplete <input type="radio"/> N/A
FTA Block Status:	<input type="text"/> *	Roads (NP/NF):	<input type="text"/> *
Catastrophic (from FTA):	N	Cruise (m ² /ha):	<input type="text"/> *
Return Number:	<input type="text"/> *	Waste Surveyor Licence:	<input type="text"/> *

Zone: ☒ Dry Belt ☐ Transition Zone ☐ Wet Belt

Condition: ☒ Normal ☐ MPS Control ☐ Fire Kill

WASTE Benchmark (m²/ha): *

Multi-Mark: No *

Primary Mark Area (ha): *

[Multi-Mark](#)

[Save](#)

Dispersed

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *
Save Cancel					

Accumulation

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *
Save Cancel					

Standing Trees

Assessment Method	Net Area
<input type="text"/> *	<input type="text"/> *
Save Cancel	

[Back](#)

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And a classic e-FM trap. That is actually 2 screens. (See image below.) You fill in the stuff above the red line shown below and save it with the **Save** in mid screen, then move on to the stuff below the red line. If you miss that mid-screen save, you loose some work.

Application Home

Waste System

Search Reporting Unit Reports Ledgers Admin Links

Waste102 - Block Details

[Back](#)

Reporting Unit ID:	11045	Forest District:	DAB - Arrow Boundary Forest District
Licensee:	WINLCRW 00	Option:	Ocular
Dispersed CV (%):		Accumulated CV (%):	

License No:	W1832	Cutting Permit:	
Block:		Timber Mark:	WBJCR1
VWASTE Block Status:	DFT - Draft	Exempted Block:	N
Harvest Status:			

Years Logged From:	<input type="text"/> *	Years Logged To:	<input type="text"/> *
Primary Logging Completion Date:	<input type="text"/> *	Survey Date:	<input type="text"/> *
Disturbance Start Date (from FTA):	<input type="text"/> *	Disturbance End Date (from FTA):	<input type="text"/> *
Net Area (ha):	<input type="text"/> 1 *	Gross Disturbance Area (ha) (from FTA):	<input type="text"/> *
Remaining Harvest Area (ha):	<input type="text"/> *	Harvest Status:	<input checked="" type="radio"/> Complete <input type="radio"/> Incomplete <input type="radio"/> N/A
FTA Block Status:	<input type="text"/> *	Roads (NPINF):	<input type="text"/> *
Catastrophic (from FTA):	N	Cruise (m ² /ha):	<input type="text"/> *
Return Number:	<input type="text"/> *	Waste Surveyor Licence:	<input type="text"/> *

Zone:

☒ Dry Belt ☐ Transition Zone ☐ Wet Belt

Condition:

☒ Normal ☐ MPB Control ☐ Fire Kill

VWASTE Benchmark (m²/ha):

*

Multi-Mark:

No *

Primary Mark Area (ha):

*

[Multi-Mark](#)

[Save](#)

Dispersed

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)	
<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	Save Cancel

Accumulation

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)	
<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	<input type="text"/> *	Save Cancel

Standing Trees

Assessment Method	Net Area	
<input type="text"/> *	<input type="text"/> *	Save Cancel

[Back](#)

7.6 Block Details

So, let's examine how to do the stuff above the red line - Block Details . . (Note: This is the Interior screen. Coast screen does not have Zone and Condition, it has Maturity..)

Application Home		Help	
Waste System			
Search	Reporting Unit	Reports	Ledgers
Admin		Links	
Waste102 - Block Details			
Back			
Reporting Unit ID:	11045	Forest District:	DAB - Arrow Boundary Forest District
Licensee:	WINLCRW 00	Option:	Ocular
Dispersed CV (%):		Accumulated CV (%):	
Licence No:	W1832	Cutting Permit:	
Block:		Timber Mark:	WBJCR1
WASTE Block Status:	DFT - Draft	Exempted Block:	N
Harvest Status:			
Years Logged From:	<input type="text"/> *1	Years Logged To:	<input type="text"/> *2
Primary Logging Completion Date:	<input type="text"/> *3	Survey Date:	<input type="text"/> *4
Disturbance Start Date (from FTA):		Disturbance End Date (from FTA):	
Net Area (ha):	<input type="text"/> *5	Gross Disturbance Area (ha) (from FTA):	
Remaining Harvest Area (ha):	<input type="text"/> *6	Harvest Status:	7 <input checked="" type="radio"/> Complete <input type="radio"/> Incomplete <input type="radio"/> N/A
FTA Block Status:		Roads (NP/NF):	<input type="text"/> *8
Catastrophic (from FTA):	N	Cruise (m ³ /ha):	<input type="text"/> *9
Return Number:	<input type="text"/> *10	Waste Surveyor Licence:	<input type="text"/> *11
Zone:	<input type="radio"/> Dry Belt <input type="radio"/> Transition Zone <input checked="" type="radio"/> Wet Belt *12		
Condition:	<input checked="" type="radio"/> Normal <input type="radio"/> MPB Control <input type="radio"/> Fire Kill *13		
WASTE Benchmark (m ³ /ha):			
Multi-Mark:	<input type="text"/> No *14		
Primary Mark Area (ha):	<input type="text"/> * Multi-Mark		

- Years Logged From.** Harvest started in calendar year ____.
- Years Logged To.** Harvest ended in calendar year ____.
- Primary Logging Completion Date.** A date, obviously.

The Waste Manual states:

Primary Logging means the cutting of timber and the yarding of that timber to a central landing, roadside or drop area in a logging operation.

The relevance is that you are to have completed your waste survey within 60 days of the completion of primary logging, or as soon as the area is sufficiently snow free if snow occurs before that 60 days is up.

If you should be doing a plot survey, the logging completion date is used by the Ministry to set the Starting Point Interval Factor (a randomization factor) which you have to use in locating your plot sample grid.

- Survey Date.** Self explanatory. And yes, if your survey date is 1 year after your Primary Logging Completion date, you have just notified govt of non-compliance. You cannot fix your past mistakes, but going forward, get that survey done on time.

5. **Net Area.** The e-Waste system help defines this as "Net Area for the block must be equal to the net area for the stratus (dispersed, accumulation and Standing Trees)". See Section 7.2 for a discussion re: determining area.
6. **Remaining Harvest Area.** If you are reporting waste on a not completed harvest area, there would logically be a remaining harvest area. Reporting on a not completed harvest unit is outside the scope of this manual.
7. **Harvest Status.** The default is Complete. Reporting on a not completed harvest unit is outside the scope of this manual and my understanding. No idea what N/A does or when it applies.
8. **Roads (NP/NF).** Not used in Interior - can leave blank. Total area of road surface in block is entered on Coast.
9. **Cruise (m³/ha).** Identified in one on-line help file as a "Display Only" value. No other definition or information provided. WL on tab rates do not cruise. Submissions with no entry - blank - in this field process with no errors and receive approval.
10. **Return Number.** The instructions for this entry are not crystal clear. The on-line instructions link the Return Number to e-Submission Activity:

Enter return number starting from 001 and increment by one each time you file a waste return submission.

However, the Waste Manual asserts that return number is linked to survey activity:

Identifies the return number of the waste surveyor responsible for the establishment of the plot. Return numbers will increment by one for each new block sampled in a given year.

It is the responsibility of each certified waste surveyor to keep track of his/her own return number. These numbers automatically revert to "001" on January 1st of each year.

I think that the Waste Manual has a clearer idea of what it wants, and it *is* the Waste Manual. So I go with it. Provide the Return Number of the surveyor, not the e-Submissions person. But what if you are not a certified waste surveyor? I figure a WL licensee authorised to survey their waste would just ignore that clause, and manage his or her return numbers per the rest of the instructions.

11. **Waste Surveyor Licence.** The on-line instructions say:

Enter your waste surveyor licence number or scaling licence number. If you are neither, then enter WACO for RCO, WASI for RSI, and WANI for RNI as licence number and provide the name and registration number of a sponsoring RFP or RFT in the comment screen when submitting the block.

This matches well with the Waste Manual instructions.

So if the survey was completed by a Licenced Waste Surveyor or Scaler, enter their licence number.

If the survey was completed by other than a Licenced Waste Surveyor or Scaler, enter WACO, WASI or WANI.

If your surveyor relies on RPF or RFT sponsorship to certify their work, you will need to provide that sponsorship info later in the submission.

If the survey was performed by a Woodlot Licencee who has been authorized by the District Manager under Section 3.3(4) to perform Waste Surveys on their woodlot, they would be a WACO, WASI or WANI and would provide the information about Section 3.3(4) later in the submission.

12. **Zone.** (Interior Only) The Zone entry (Dry, Transition, Wet) determines the benchmark - how much waste you can have per ha before incurring a billing. You choose your zone based on Biogeoclimatic (BEC) zone, per the table below. You click/activate the appropriate button on the screen. When you Save the display changes and it tells you the applicable benchmark number.

Interior Forest Residue and Waste
Benchmarks and BEC Zones 2006

AVOIDABLE WASTE BENCHMARK	BIOGEOCLIMATIC ZONE	BIOGEOCLIMATIC SUBZONE
DRY BELT BENCHMARK 4 m3 / hectare NDT4	IDF (Interior Douglas Fir)	un-, dk, dm, mw, ww, xh, xm, xw
	PP (Ponderosa Pine)	dh, xh
	BG (Bunchgrass)	xh, xw
TRANSITION BENCHMARK 10 m3 / hectare NDT3	ESSF (Englemann Spruce - Subalpine Fir)	dc, dcw, dk, dkw, dm, dmw, dv, dww, xc, xcw, xv, xvw
	ICH (Interior Cedar Hemlock)	dk, dm, dw, mk, xw
	MS (Montane Spruce)	dc, dk, dm, mw, xk, xv
	CWH (Coastal Western Hemlock)	xm
	BWBS (Boreal White and Black Spruce)	dk, mw, vk, wk
	SBS (Sub-Boreal Spruce)	dh, dk, dw, mc, mh, mk, mm, mw
	SBPS (Sub-Boreal Pine - Spruce)	dc, dw, mc, mk, xc
WET BELT BENCHMARK 20 m3 / hectare	ICH (Interior Cedar Hemlock)	mc, mm, mw, vc, vk, wk
	MH (Mountain Hemlock)	mm, wh
	CWH (Coastal Western Hemlock)	vh, vm, wm, ws
	SWB (Spruce Willow Birch)	dk, mk, vk
	SBS (Sub-Boreal Spruce)	vk, wk
	ESSF (Englemann Spruce - Subalpine Fir)	mc, mcw, mk, mkw, mm, mmw, mv, mw, mww, vc, vcw, vvw, wc, wcw, wk, wkw, wm, wmw, wv, vvw

The table is from 2006, so changes may occur, but as of this date, it is still in effect.

The table has footnotes which contain some relevant information:

The benchmarks are administered on an individual cut block basis, regardless of whether the cutblock is in the Cutblock, the Aggregate or the Ocular Reporting Unit. Therefore, each cut block must be individually assessed to determine whether the avoidable waste within the cutblock is above or below the benchmark.

No waste benchmarks will be applied to log decks that in the determination of a forest officer are subject to scaling at a scale site or being field scaled. Such log

decks must be clearly marked by the licensee and not to be included in the waste assessment.

Waste benchmarks do not apply to the unharvested cutblocks.

No waste benchmark will be applied to an area of a cutblock where the wasted timber volume compromised the site-specific forest management objective(s).

The area must be delineated, waste assessed and billed separately from the remaining area of the cutblock.

OK, each block individually, benchmarks do not cover log decks in Interior, no benchmark impact on take or pay, and no benchmark if the waste compromised management objectives.

Log decks are discussed in Section 8. .

The final clause - no benchmark if the waste compromised management objectives - creates a need to attach an attestation to the survey summary that the Waste levels in the surveyed area did or did not compromise site specific forest management objectives. That colorful FS 702 a few pages back has such an attestation 8 lines up from the bottom. Your waste survey summary should have one as well.

Maturity (Coast Only) For Coastal submissions, the input screen will ask you to choose between Mature and Immature. The only definition of Mature and Immature in the Waste Manual is in the Merchantability Specifications and says:

The selection of Mature or Immature is based on the determination of maturity in a timber cruise of the cutblock. Once a cutblock is determined to be "mature" in a cruise compilation (based on 50 + % of coniferous timber having an average age of 121 years or older and deciduous timber having an average age of 41 years or older), the Mature Timber Merchantable Specifications shall be used for waste measurement of all coniferous and deciduous timber left within the cutblock. Conversely where a cutblock belongs to immature in a cruise, the Immature Timber Merchantable Specifications shall be used for waste measurement of all coniferous and deciduous timber left within the cutblock.

You click/activate the correct button on the screen, when you Save the display changes and it tells you the benchmark number

13. **Condition.** Can find no definitions of choices, but seems straightforward.

14. **Multi-Mark.** Multi-Mark returns are beyond the scope of this manual.

Multi-mark situations can occur when a single reporting unit has a footprint on two tenures, such as the Schedule A and Schedule B land in a woodlot, or when the waste the assessment area includes a road permit road tenure area within a cut block.

And then you click the mid-screen save to save your work.

Application Home
Help

Waste System

Search
Reporting Unit
Reports
Ledgers
Admin
Links

Waste102 - Block Details

Back

Reporting Unit ID: 11045
Forest District: DAB - Arrow Boundary Forest District
Licensee: WINLCRW 00
Option: Ocular
Dispersed CV (%):
Accumulated CV (%):

Licence No: W1832
Cutting Permit:
Block:
Timber Mark: WBJCR1
WASTE Block Status: DFT - Draft
Exempted Block: N
Harvest Status:

Years Logged From: 2011 *
Years Logged To: 2012 *
Primary Logging Completion Date: 2012-10-01 *
Survey Date: 2013-08-13 *
Disturbance Start Date (from FTA):
Disturbance End Date (from FTA):
Net Area (ha): 1 *
Gross Disturbance Area (ha) (from FTA):
Remaining Harvest Area (ha):
Harvest Status: ☒ Complete ☐ Incomplete ☐ N/A
FTA Block Status:
Roads (NP/NF):
Catastrophic (from FTA): N
Cruise (m³/ha):
Return Number: 432 *
Waste Surveyor Licence: 964D *

Zone: ☐ Dry Belt ☐ Transition Zone ☒ Wet Belt
Condition: ☒ Normal ☐ MPB Control ☐ Fire Kill
WASTE Benchmark (m³/ha):

Multi-Mark: No
Primary Mark Area (ha):
Multi-Mark

Save

Assuming all is correct and your Internet connection did not choose this moment to get wimpy, you now see:

Application Home Help

Waste System

Search
Reporting Unit
Reports
Ledgers
Admin
Links

• Save successful.

Waste102 - Block Details

[Back](#)

Reporting Unit ID:	11045	Forest District:	DAB - Arrow Boundary Forest District
Licensee:	WINLCRW 00	Option:	Ocular
Dispersed CV (%):		Accumulated CV (%):	

Licence No:	W1832	Cutting Permit:	
Block:		Timber Mark:	WBJCR1
WASTE Block Status:	DFT - Draft	Exempted Block:	N
Harvest Status:	Complete		

Years Logged From:	<input type="text" value="2011"/>	*	Years Logged To:	<input type="text" value="2012"/>	*
Primary Logging Completion Date:	<input type="text" value="2012-10-01"/>		Survey Date:	<input type="text" value="2013-08-13"/>	
Disturbance Start Date (from FTA):			Disturbance End Date (from FTA):		
Net Area (ha):	<input type="text" value="1"/>		Gross Disturbance Area (ha) (from FTA):		
Remaining Harvest Area (ha):	<input type="text"/>		Harvest Status:	<input checked="" type="radio"/> Complete <input type="radio"/> Incomplete <input type="radio"/> N/A	
FTA Block Status:			Roads (NP/NF):	<input type="text"/>	
Catastrophic (from FTA):	N		Cruise (m ³ /ha):	<input type="text"/>	
Return Number:	<input type="text" value="432"/>		Waste Surveyor Licence:	<input type="text" value="964D"/>	

Zone:
 ☐ Dry Belt
 ☐ Transition Zone
 ☒ Wet Belt
 Condition:
 ☒ Normal
 ☐ MPB Control
 ☐ Fire Kill
 WASTE Benchmark (m³/ha):

Multi-Mark:

No

 Primary Mark Area (ha):

[Save](#)

Red highlighting is mine. Save successful and a benchmark box appeared and is filled with a number, based on the Zone/Condition or Maturity you told it.

7.7 Create A Dispersed Stratum

On to the lower part of the same screen, fill in information on Dispersed to create a reporting stratum. Note that Dispersed is not a Stratum, we create a Stratum within Dispersed.

All of the entries except Area have drop down lists, so we will mostly choose from the drop-down options presented.

What we are doing here is building a Waste Reporting Stratum and Stratum Label, which combines the letter codes for Waste Type, Harvest Method, Assessment Method and Waste Level in a 4 letter name. You probably really do not care, goal is to get this done, but there is your trivia for the day.

First Waste Type:

This is a road RoW. RoW is not listed, but I will choose clearcut from the list because it certainly is. I am not aware of any more expansive definitions of the choices than the titles shown above.

Harvest Method:

If it was a cable show with a live skyline, what do you choose? Dumb it down to high lead? Does tractor mean cat? I do not know. Again, no definitions provided.

My partner Bernie always has a cat and a skidder on site, so I go with C - any combination.

Assessment Method:

This is a Woodlot. We can and do use ocular assessment. Ocular requires one to do plots, but you call it Ocular, not Plot. See Section 2.1 for discussion of requirements to use Ocular method.

Key thing: **Do not choose P- plot if you did an ocular assessment with plots.** Ocular plots are non standard plots and will cause undesirable complications within the Waste system if you call the Assessment Method Plot. Call an Ocular estimate supported by plots O - Ocular Estimate.

Waste Level:

The screenshot shows a software interface with two sections: 'Dispersed' and 'Accumulation'. Each section has fields for 'Waste Type', 'Harvest Method', 'Assessment Method', 'Plot Size (m²)', 'Waste Level', and 'Area (ha)'. In the 'Dispersed' section, the 'Waste Level' dropdown menu is open, showing options: 'H - Heavy', 'L - Light', 'M - Medium', and 'X - Not Stratified'. The 'L - Light' option is currently selected.

Rather counterintuitive entry. Purpose is to facilitate the stratification of a harvest unit into areas with different waste situations and often different amounts of waste (waste levels). If you choose to subdivide a block into more than one Dispersed reporting unit, this is your tool to do it.

Frequently, you will choose not to stratify, and will select X - Not Stratified.

But you could have a stratum of Clearcut / Any Combination / Ocular Estimate / Light (SCOL) and one of Clearcut / Hoechuck / Ocular Estimate / Medium (SHOM). Or you can use number codes 1 to 9 to label stratum. (SCO1 and SCO2)

Talked to a licensee recently who noted that he had a lot of high stumps in one part of a block where the buncher operator had just put in new teeth and was feeling a bit shy of the rocks. That identifiable area could have been typed out as a stratum, if they chose.

Note: If you make a stratum, you have to map it and show it on your Waste Survey Map. Mapping methods are not specified.

I was feeling that my waste levels were pretty darn Light, so I chose light, which is technically not the correct course of action. Should have been X - Not Stratified. My return was accepted anyway.

Area

This screenshot shows the same software interface as the previous one, but with the 'Waste Level' dropdown set to 'L - Light'. The 'Area (ha)' field in the 'Dispersed' section now contains the value '1'. The 'Save' button is highlighted with a mouse cursor.

Area of the stratum. In the example screen above, I put in 1 hectare, which is completely wrong. That is my Net Area. The entry here is supposed to be Dispersed stratum area, or Net Area - Landing Pile Area, or 0.99 ha. Like all mistakes, it made sense at the time. See Section 9.1 for "How to Fix".

Click on Save. Things change:

Dispersed

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	1

Buttons: Save, Cancel, Details, Update, Delete

Accumulation

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
------------	----------------	-------------------	-----------------------------	-------------	-----------

Buttons: Save, Cancel

Standing Trees

Assessment Method: * Net Area: * Buttons: Save, Cancel

Back

Footer: Feedback, Disclaimer, Privacy, Copyright, Ministry of Forests & Range

I now have an empty Dispersed stratum called SCOL to populate with waste volume details.

If I wanted to create another entry line under Dispersed for another stratum within this Dispersed area (e.g. the SCOL and SHOM strata mentioned above), I would just repeat the process and Save again. Note that in such a case:

$$\text{Net Area} = \text{SCOL Stratum Area} + \text{SHOM Stratum Area} + \text{Landing Pile Area}$$

7.8 Create Another Stratum for Landing Piles

Waste in landing slash piles is reported under Accumulation, not Dispersed. So almost all harvest operations require an Accumulation stratum too.

Use the drop down lists in Accumulation to fill in the boxes:

Dispersed

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	1

Buttons: Save, Cancel, Details, Update, Delete

Accumulation

Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
C - Cold Deck					

Buttons: Save, Cancel, Details, Update, Delete

Standing Trees

Assessment Method: * Net Area: * Buttons: Save, Cancel

Back

and then Save to create a stratum under Accumulation, pretty much the same process as for Dispersed.

Note that a log deck - any accumulation of 5 or more logs mechanically placed together - must be reported as a separate "block" with a 0 benchmark in the Interior. See Section 8. .

Dispersed					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	.99
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

Accumulation					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
L - Landings	C - Any Combination	O - Ocular Estimate		L - Light	.01
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

Standing Trees	
Assessment Method	Net Area
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

You will note that the Dispersed SCOL stratum area above has been changed to 0.99 ha. I caught my earlier mistake when I went to enter the Accumulation LCOL stratum area, and fixed it, as explained in Section 9.1 .

7.9 Standing Trees

There is also a Standing Trees blank at bottom of form

Standing trees on Woodlots in CPs with stumpage set by Tabular Rates no longer count as Waste.

If the stumpage rate in the harvest area you are surveying was set by MPS appraisal, and the area or part of the area contains standing trees in excess of any retained tree volumes identified under the appraisal, those trees are likely standing waste.

I do not know how to fill in the standing trees section at this time, so you will have to study the manual or seek advice elsewhere.

7.10 Enter Waste Species / Type / Volume Data

You click the Details button beside Dispersed or Accumulation (as shown just above) and a new entry form - Waste 205 - opens up. Here we finally get to enter the waste Species / Type / Volume information.

Application Home

Help

Waste System

Search

Reporting Unit

Reports

Ledgers

Admin

Links

Waste205 - Ocular Estimate

Back

Reporting Unit ID:11045

Forest District:DAB - Arrow Boundary Forest District

Licensee:WINLCRW 00

Option:Ocular

Dispersed CV (%):

Accumulated CV (%):

Licence No:W1832

Cutting Permit:

Block:

Timber Mark:WBJCR1

WASTE Block Status:DFT - Draft

Exempted Block:N

Harvest Status:Complete

Stratum:SCOL

Piece

#

Sp.

Kind

Waste Class

Grade

Estimate (m³/ha)

Estimate Volume (m³)

Save

Cancel

*

*

*

*

Back

Feedback

Disclaimer

Privacy

Copyright

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The business part of the form is the set of entry blanks near the bottom of the form, labeled Piece (for some reason).

Start with Sp. which is Species:

Piece

#

Sp.

Kind

Waste Class

Grade

Estimate (m³/ha)

Estimate Volume (m³)

Save

Cancel

*

*

*

*

Back

AL

AR

AS

BA

BI

CE

CO

CY

FI

HE

LA

LO

MA

OT

R

SP

UU

WA

WB

WH

WI

YE

Feedback

Disclaimer

Privacy

Copyright

Lots of choices - and they use Scaling species codes, which are not the same as the codes many of us non-scalers use for species. Definitions:

AL	Alder	CY	Cypress	R	Not Used
AR	Arbutus	FI	D-Fir	SP	Spruce
AS	Aspen	HE	Hemlock	UU	Pacific Yew

BA	Balsam	LA	Larch	WA	Not Used
BI	Birch	LO	Lodgepole Pine	WB	Whitebark Pine
CE	Cedar	MA	Maple	WH	White Pine
CO	Cottonwood	OT	Other	WI	Willow
				YE	Yellow Pine

Next, Kind of waste.

- B - Breakage, less than 3m, and broken at one or both ends;
- D - Downed trees exceeding the timber merchantability specifications;
- L - Logs or slabs at lease 3m in length;
- S - Stumps;
- T - Standing trees exceeding the timber merchantability specifications;
- W - Bucking waste, logs less than 3m cut at both ends or at the large end;
- X - Special forest products.

Next, Waste Class - A for Avoidable, U for Unavoidable

The screenshot shows a web form for entering waste data. The form includes fields for Piece #, Species (Sp.), Kind, Waste Class, Grade, Estimate (m³/ha), and Estimate Volume (m³). The Waste Class dropdown menu is open, showing options A and U. The form also includes a Back button and a footer with links for Feedback, Disclaimer, Privacy, and Copyright.

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m³/ha)	Estimate Volume (m³)
	FI	L	A			

Buttons: Back, Save, Cancel

Footer: •Feedback •Disclaimer •Privacy •Copyright

Next, Grade of waste wood. The screen capture below shows Interior grades. If you are submitting in a Coast district, you will see Coast grades.

The screenshot shows the same web form as above, but with the Grade dropdown menu open. The dropdown menu shows a list of grades: -, 1, 2, 4, 6, 7, 8, and Z. The form also includes a Back button and a footer with links for Feedback, Disclaimer, Privacy, and Copyright.

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m³/ha)	Estimate Volume (m³)
	FI	L	A	2		

Buttons: Back, Save, Cancel

Footer: •Feedback •Disclaimer •Privacy •Copyright

And finally, Estimate (m^3/ha) **OR** Estimate Volume (m^3). Fill in one or the other. The System will use your entry and the stratum area you provided back on Waste 102 to calculate the other entry when you Save. I tend to enter Estimate Volume (m^3) and let The System calculate m^3/ha .

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m^3/ha)	Estimate Volume (m^3)	
	FI	L	A	2	0.2		Save Cancel
	*	*	*	*			

Back

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This was a 1 ha stratum, so nothing very exciting happens on Save.

1 row returned

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m^3/ha)	Estimate Volume (m^3)	
							Save Cancel
	*	*	*	*			
1	FI	L	A	2	0.2	0.200	Update Delete

Back

[Feedback](#) [Disclaimer](#) [Privacy](#) [Copyright](#)

After Save, you have a saved data entry and the Piece line is blank. If you have another Species / Kind / Waste Class / Grade tally in this stratum, and you likely do, enter the specifics in the Piece line. And Save again.

1 row returned

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m^3/ha)	Estimate Volume (m^3)	
	CE	L	A	4		0.9	Save Cancel
	*	*	*	*			
1	FI	L	A	2	0.2	0.200	Update Delete

Back

[Feedback](#) [Disclaimer](#) [Privacy](#) [Copyright](#)

Which creates:

2 rows returned

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m ³ /ha)	Estimate Volume (m ³)		
*	*	*	A	*			Save	Cancel
1	FI	L	A	2	0.2	0.200	Update	Delete
2	CE	L	A	4	90.0	0.900	Update	Delete

Back

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You repeat the process until you have entered all the Species / Kind / Waste Class / Grade data for this stratum.

Then you click Back to go back to Waste 102, select the next stratum (if any) and do it again. (Most harvesting waste reports have a Dispersed stratum and an Accumulation stratum.)

7.11 Check / Verify Your Entries

You need to check your data entry work before you send it in. One typo could cost you money, or cost everyone money when you get the District staff to reject it so you can re-do.

You can click back and forth through the various entry forms you just visited and verify your keyboarding.

I prefer to use the Ledger report, which creates a summary of your input and a permanent record of what you input. Ledger is accessed from the top menu line on the Waste pages:

Application Home Help

Waste System

Search Reporting Unit Reports **Ledgers** Admin Links

Waste205 - Ocular Estimate

Back

Reporting Unit ID: 18331 Forest District: DOS - Okanagan Shuswap
 Licensee: 00109036 00 Option: Forest District
 Dispersed CV (%): Accumulated CV (%): Ocular

You click on Ledgers then you click on Ledgers. It opens a somewhat quirky "define what you want" screen.

Application Home Help

Waste System

[Search](#) | [Reporting Unit](#) | [Reports](#) | [Ledgers](#) | [Admin](#) | [Links](#)

WASTE402 - Ledger Reports

Report: *
 Org unit: * Licensee:
 Reporting Unit ID:

Forest File ID:

Cutting Permit ID:

Site Type:

Block Submission Date Range: to

Survey Method:

Survey Checked:

Delivery Type:

Cut Block:

Timber Mark:

Maturity:

Risk Rating:

Harvest Method:

Surveyor Number:

Email Address:

Block Status:

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It knows who you are. However, you still need to tell it what you want and what your Org Unit (aka Forest District) is. For some reason it seems to want to send you an array of reports, we will get that toned down.

So, we want a Summary Ledger report and we need to tell it the right Forest District.

WASTE402 - Ledger Reports

Report: *
 Org unit: * Licensee:
 Reporting Unit ID:

Forest File ID:

Cutting Permit ID:

Site Type:

Block Submission Date Range: to

Survey Method:

Survey Checked:

Delivery Type:

Cut Block:

Timber Mark:

Maturity:

Risk Rating:

Harvest Method:

Surveyor Number:

Email Address:

Block Status:

Then into the Block Status list. Find Draft, middle of list, and select it.

WASTE402 - Ledger Reports

Report: *

Org unit: * Licensee:

Reporting Unit ID:

Forest File ID: Cut Block:

Cutting Permit ID: Timber Mark:

Block Status:

Site Type: Maturity:

Block Submission Date Range: to Risk Rating:

Survey Method: Harvest Method:

Survey Checked: Surveyor Number:

Delivery Type: Email Address:

The multitude of other choices are cleared and Draft is highlighted.

WASTE402 - Ledger Reports

Report: *

Org unit: * Licensee:

Reporting Unit ID:

Forest File ID: Cut Block:

Cutting Permit ID: Timber Mark:

Block Status:

Site Type: Maturity:

Block Submission Date Range: to Risk Rating:

Survey Method: Harvest Method:

Survey Checked: Surveyor Number:

Delivery Type: Email Address:

Some notes.

- I select Draft because I want a report on the draft data entry that I just completed before I submit it. (Once I submit, no changes are possible.)
- I follow a 1) enter data, 2) review, 3) submit work flow so this method works for me - I only ever have one Draft in the queue at a time. If you have multiple draft submissions waiting to be submitted, this process will produce a Summary report including all of them, which is not useful for checking purposes.
- I tried having 2 drafts in the queue and using the Cut Block: Timber Mark: etc filter function to report on just one of the drafts, but I was not successful.

DR - Direct Online Delivery will be fine - this is a report for one Woodlot unit.

Next, click Submit.

WASTE402 - Ledger Reports

Report: *

Org unit: * Licensee:

Reporting Unit ID:

Forest File ID: <input type="text" value=""/>	Cut Block: <input type="text" value=""/>	Block Status: <input type="text" value="DFT - Draft"/>
Cutting Permit ID: <input type="text" value=""/>	Timber Mark: <input type="text" value=""/>	

Site Type: Maturity:

Block Submission Date Range: to Risk Rating:

Survey Method: Harvest Method:

Survey Checked: Surveyor Number:

Delivery Type: Email Address:

The System thinks for a bit, then asks you if you meant it:

WASTE402 - Confirm Ledger Reports

When the report is ready, you will have the option to either open the report in this window or save the report to your file system. The report may take several minutes to generate.

Are you sure you want to continue?

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This is overkill for a Woodlot, but if you had just asked for all Submitted returns for a Major, it could be a bit overwhelming. Click Ok.

More questions: Open or Save?

File Download

Do you want to open or save this file?

Name: 4148488.xls
Type: XLS, 14.0KB
From: apps30.for.gov.bc.ca

☒ Always ask before opening this type of file

While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. [What's the risk?](#)

Both work fine. Open gets you your summary in an onscreen Excel spreadsheet. Handy and quick. But, on my system, I am unable to save that onscreen spreadsheet to my hard drive. I want a copy on my hard drive for my records.

So I now choose **Save**, and put the spreadsheet on my hard drive in the directory the waste data summaries are stored in with a name like
CP_3_Ledger_Submission_Report.xls.

The spreadsheet you get is shown on the next page. The key entries are highlighted by me in this copy. Those numbers should equal the net area and waste volumes you think you are reporting. If they do not, you have an error somewhere to find and fix.

WASTE 457 - Summary Ledger Report

Time: 2013-12-16 09:41 AM
 UserID: BCEIDBTOM
 Env: DBP01

Selection Criteria

Org Unit: DAB - Arrow Boundary Forest District
 Client: 00151738

Site Type: All
 Maturity: All

Block Submission Date Range: to
 Survey Method: All
 Harvest Method: All
 Check Survey: All

Block Status: DFT

Survey Option	# of Blocks	Number of Blocks Checked	# of Plots Checked	# Historic Reject	# Field Reject	# Office Reject	% of Blocks Checked	Total Net Block Area Ha	Total Avoidable Sawlog Waste Volume m3	% of Avoidable Sawlog Waste in Disp %	Total Avoidable Grade Y/4 Volume m3	Total Unavoid. Waste All Grades Volume m3	Total Av. + Unav. Waste All Grades Volume m3	Avoidable Sawlog Waste m3/Ha	Avoidable Grade Y/4 Waste m3/Ha	Total Unavoid. Waste All Grades m3/Ha	Total Av. + Unavoid Waste All Grades m3/Ha	\$ Billed
AGR	0	0	0	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLK	0	0	0	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OCU	1	0	0	0	0	0	0.00	9.92	17	29.94	0.90	0.00	17.60	1.68	0.09	1.77	1.77	0.00
Total/Average:								9.92	16.70	29.94	0.90	0.00	17.60	1.68	0.09	0.00	1.77	

7.12 Submit

Once you are satisfied that you have e-Reported the waste volumes that were measured, you Submit your e-Report.

The Submit process/form was not designed for Woodlot Licencees doing their own surveys and reports under Waste 3.3(4), or for people submitting results for Waste Surveys carried out by other persons. As a result, we bash in our best attempt at describing the situation, and then add Comments to explain.

Back at Waste 101 you have a Submit option after you have filled in data. Click it.

Application Home Help

Waste System

Search Reporting Unit Reports Ledgers Admin Links

WASTE101 - Reporting Unit Details

[Back](#)

Reporting Unit ID: [Go](#) [Delete RU](#) Forest District: DOS - Okanagan Shuswap Forest District

Licensee: 00109036 Option: Ocular

Dispersed CV (%): Accumulated CV (%):

Blocks

1 row returned 303

Licence No.	Cutting Permit	Block	Timber Mark	Exempted	Net Area (ha)	SDN Block Status	Comments
<input type="text" value="W1619"/> *	<input type="text" value="B"/> *	<input type="text" value="1"/> ...	<input type="text" value="W1619B"/> *	<input type="text" value="N"/> ▼	<input type="text" value="73.20"/> *	Draft (2013-12-11 02:36:10 PM)	N
Total:					73.20		

[Save](#) [Cancel](#) [Details](#) [Update](#) [Deactivate](#) [Delete](#) [Submit](#)

[Back](#)

Feedback Disclaimer Privacy Copyright Ministry of Forests & Range

And you get Waste 303 - Submission Agreement. Lots 'o blanks. Well, ticking off the check box beside I hereby Submit this block for approval is a good first step. After that, things get more complex.

Application Home

Waste System

Search Reporting Unit Reports Ledgers Admin Links

Waste303 - Submission Agreement

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: Tom Bradley

Role: * License Number:

Phone:

Fax:

Email Address:

Check the appropriate role:

- ☒ Unlicensed Surveyor
- ☐ Licensed Scaler
- ☐ Licensed Surveyor
- ☐ Licensed Surveyor and Scaler
- ☐ Registered Forest Technologist
- ☐ Registered Professional Forester

☐ 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: Browse...

Notation:

Additional Comments:

Status History:

Status	Userid	Timestamp	SDN Comment
DFT - Draft	BCED\TBRADLEY	2013-12-11 02:36:10 PM	

Submit Cancel

The System knows who you are because you logged in with your BCeID.

It wants to know what Role you are acting in.

I am an RFT so I generally tell it "RFT" and put my RFT number in the Licence Number: field.

A Woodlot Licencee doing their own survey and submission would be an Unlicensed Surveyor. Now here is an odd one: you leave Licence Number blank. Back on Waste 102 you told it your licence number was WACO, WASI or WANI. Now you do not.

☒ 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: Tom Bradley

Role: * **License Number:**

Phone: 2502267792

Fax:

Email Address: tomb@netidea.com

If you personally completed the survey being reported, tell it so. If no, leave that box unchecked.

If your work was sponsored by an RFT or RPF, check the box and tell it the details. If N/A, leave it blank.

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:

I initially interpreted the Check the Appropriate box(es) below: instruction as "You must check something." That is not the case, you can leave both unchecked if neither apply.

You are required to attach a map. Waste manual states:

After the field survey is completed for the block, the final Block Survey Plan map must be submitted with the waste survey reports.

The map must show the cutblock boundaries, roads, the point of commencement, strip and plot locations, and must meet ministry standards. Each area must be carefully measured by mapping and planimetry. All roads, water, swamp and other non-forest areas must be delineated on the maps and the areas measured with a planimeter. Accumulations and standing trees not harvested should be clearly indicated on the maps.

The final survey map for each cutblock must be included in the submission or in a manner acceptable by the District Manager.

Hmm, they probably allow the use of digital mapping, rather than printing the map out, finding a planimeter somewhere, and remembering how to use it.....

But seriously, the waste manual is old and very generic. For a Woodlot ocular survey, you need a map that shows:

- cutblock boundaries,
- roads,
- the point of commencement,
- accumulations,
- strip locations,
- woodlot number,
- CP and block number,
- north arrow, map scale and map title, and
- any standing trees that were tallied as waste.

Standing trees on Woodlots in CPs with stumpage set by Tabular Rates no longer count as Waste.

If the stumpage rate in the harvest area you are surveying was set by MPS appraisal, and the area or part of the area contains standing trees in excess of any retained tree volumes identified under the appraisal, those trees are likely standing waste. You would need to show them on the map.

You need an e-Copy of the map. Mercifully, not a shape file or some GML creation. Just a scan of a paper map or a PDF printout from a mapping program will do just fine. A scan of a paper map with hand drawn information and titles is also just fine.

You need to know where on your computer the image or PDF of the map is. You click the Browse button beside Survey Map and navigate to the file, and it uploads to the Waste system.

Sponsoring RPF/RFT:

Designation:

RPF/RFT Name:

RPF/RFT #:

Phone:

Fax:

Email Address:

Survey Map:

Notation:

And Comments. The Comments are the place where you tell the folks at Waste what is going on here.

For example, when I do the e-Submission for a woodlot licensee who did their own waste survey:

Additional Comments:

The waste survey reported herein was completed by [redacted], Woodlot Licencee, per Section 3.3 (4) of the Waste Manual.
Tom Bradley, RFT 0452, carried out the e-Submission work.

If you had surveyed and reported yourself, as a Woodlot Licencee, you would report that you were an unlicensed surveyor, you had completed the work yourself, and add a comment to the effect of :

Field surveys, volume estimates and e-Submission work completed by Bushman Bob, Licencee, Woodlot 1234, per Section 3.3(4) of the Waste Manual.

Another comment type I have used a lot is:

Field surveys and volume estimates completed by Bushman Bob, Waste Surveyor 123D.

On-line data entry completed by Tom Bradley, RFT 0452.

And of course, at the end, you click on Submit.

Status History:			
Status	Userid	Timestamp	SDN Comment
DFT - Draft	BCEID\TBADLEY	2013-12-11 02:36:10 PM	

[•Feedback](#)
[•Disclaimer](#)
[•Privacy](#)
[•Copyright](#)

After you click Submit, the submission is added to the Waste input stack and you are locked out of it. You can view it, but you cannot change it.

If you Submit and then find the error, see Section 9.2

8. Reporting Log Decks

The following process is specific to the Interior, and does not apply on the Coast.

Groups of 5 or more logs placed together are a special case in the Interior. They are not subject to the benchmarks, and must be reported under a 0 benchmark. The only tool the system gives us to accomplish this is to report the log deck as a separate "block", as benchmarks are set at the block level.

Log decks on the coast are included in a waste report that is subject to benchmarks.

The Waste Manual states:

Decked timber is five or more logs that are mechanically placed together in a deck.

If a forest officer determines that a log deck is to be scaled at a scale site or field scaled, the log deck must be clearly marked and identified by the licensee in order that the timber in the log deck will not be included in the waste assessment.

For decked timber that is to be included in a waste assessment, the logs must be 100 % measured or estimated using the most practical method as determined by the licensed surveyor such as top scale or average piece size times number of pieces.

No waste benchmarks will be applied to log decks that in the determination of a forest officer are subject to scaling at a scale site or being field scaled. Such log decks must be clearly marked by the licensee and not to be included in the waste assessment.

The key bits above are that a group of 5 logs placed together is "a deck". Most common, in my experience, is the part load with insufficient bunk logs or impossibly mixed species that is left on the landing at the end of the job. We measure those logs and report them as waste. A missed buncher drag of 5 logs out in the far corner of the block would also be a deck.

I asked for interpretation on the sentence in the last para - "Such log decks must be clearly marked ... not to be included" - and was informed the intended meaning is that if you are going to truck and scale the deck after the waste survey date, mark the deck and do not count it as waste. You also need to note said deck(s) on your waste survey map, and you *better* truck them and scale them.

A deck that is staying on site is waste and must be 100% measured or estimated, and reported as waste. In the Interior, the benchmarks do not apply to this volume. As the benchmarks do not apply, you have to create a separate "block" with a 0 m³/ha benchmark to report any deck of 5 or more logs.

So, back into Waste 101 - Reporting Unit Details to create a new "block":

Application Home
Help

Waste System
Search
Reporting Unit
Reports
Ledgers
Admin
Links

WASTE101 - Reporting Unit Details

Back

Reporting Unit ID: 12923 Go Delete RU
Forest District: DAB - Arrow Boundary Forest District
Licensee: SLOCIFCO Option: Ocular
Dispersed CV (%): Accumulated CV (%):

Blocks
3 rows returned
303

Licence No.	Cutting Permit	Block	Timber Mark	Exempted	Net Area (ha)	SDN Block Status	Comments	
K2R	2	1	K2R002	N	0.02			Save Cancel
K2R	2	1	K2R002	N	12.00	Submitted (2013-11-30 11:59:36 AM)	Y	Details Update Deactivate Delete District
K2R	A	1	K2R00A	N	.01 67615111	Billing Issued (2010-08-17 03:03:56 PM)	Y	Details Update Deactivate Delete Rebill
K2R	A	1	K2R00A	N	6.80 67615106	Billing Issued (2010-08-17 03:03:43 PM)	Y	Details Update Deactivate Delete Rebill
Total:					18.81			

Back

You will see that my "block" has a Net Area of 0.2 ha, because my waste surveyor reported that was the area occupied by 2 discrete abandoned piles within the CP. A net area of 0.1 ha is also acceptable.

Then into Waste 102:

Application Home

Waste System

SearchReporting UnitReportsLedgersAdminLinks

Waste102 - Block Details

Back

Reporting Unit ID: 12923Forest District: DAB - Arrow Boundary Forest District
Licensee: SLOCFCO 00Option: Ocular
Dispersed CV (%):Accumulated CV (%):

Licence No: K2RCutting Permit: 2
Block: 1Timber Mark: K2R002
WASTE Block Status: DFT - DraftExempted Block: N
Harvest Status:

Years Logged From: 2011 *Years Logged To: 2012 *
Primary Logging Completion Date: 2012-10-01 *Survey Date: 2013-08-13 *
Disturbance Start Date (from FTA): 2011-10-17Disturbance End Date (from FTA): 2012-10-01
Net Area (ha): .02 *Gross Disturbance Area (ha) (from FTA): 13.1
Remaining Harvest Area (ha):Harvest Status: ☒ Complete ☐ Incomplete ☐ N/A
FTA Block Status: S - SilvicultureRoads (NP/NF):
Catastrophic (from FTA): NCruise (m³/ha):
Return Number: 2034 *Waste Surveyor Licence: 946D *

Zone: ☐ Dry Belt ☐ Transition Zone ☒ Wet Belt
Condition: ☒ Normal ☐ MPB Control ☐ Fire Kill
WASTE Benchmark (m³/ha):

Multi-Mark: No
Primary Mark Area (ha): *Multi-Mark

Save

Key Points:

- e-Waste will not accept two reports for the same CP / Block Number / Timber Mark combo with the same survey date. Chances are you already filed the main waste survey report with the correct survey date. So on this Waste 102, tell it the lie it wants to hear. If the real survey date was 2012-08-12 (main survey) tell it this survey was carried out on 2012-08-13.²
- Select the right Zone or Maturity and Save. We will set the benchmark to 0 in next step.

After you Save, the screen refreshes with the benchmark number you selected, as shown:

² We shall NOT consider the professional implications of this methodology.

• **Save successful.**

Waste102 - Block Details

[Back](#)

Reporting Unit ID:	12923	Forest District:	DAB - Arrow Boundary Forest District
Licensee:	SLOCIFCO 00	Option:	Ocular
Dispersed CV (%):		Accumulated CV (%):	

Licence No:	K2R	Cutting Permit:	2
Block:	1	Timber Mark:	K2R002
WASTE Block Status:	DFT - Draft	Exempted Block:	N
Harvest Status:	Complete		

Years Logged From:	2011 *	Years Logged To:	2012 *
Primary Logging Completion Date:	2012-10-01 *	Survey Date:	2013-08-13 *
Disturbance Start Date (from FTA):	2011-10-17	Disturbance End Date (from FTA):	2012-10-01
Net Area (ha):	.02 *	Gross Disturbance Area (ha) (from FTA):	13.1
Remaining Harvest Area (ha):		Harvest Status:	<input checked="" type="radio"/> Complete <input type="radio"/> Incomplete <input type="radio"/> N/A
FTA Block Status:	S - Silviculture	Roads (NP/NF):	
Catastrophic (from FTA):	N	Cruise (m ³ /ha):	
Return Number:	2034 *	Waste Surveyor Licence:	946D *

Zone: ☐ Dry Belt ☐ Transition Zone ☒ Wet Belt

Condition: ☒ Normal ☐ MPB Control ☐ Fire Kill

WASTE Benchmark (m³/ha): 20 *

Multi-Mark: No

Primary Mark Area (ha): *

[Multi-Mark](#)

[Save](#)

We need a 0 benchmark. Highlight the numeric benchmark, replace it with a 0, and Save again.

Zone: ☐ Dry Belt ☐ Transition Zone ☒ Wet Belt

Condition: ☒ Normal ☐ MPB Control ☐ Fire Kill

WASTE Benchmark (m³/ha): 0 *

Multi-Mark: No

Primary Mark Area (ha): *

[Multi-Mark](#)

[Save](#)

You should still see a 0 in the benchmark field after the Save.

Now, add the info about your Accumulation in this "block":

Accumulation					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
<input type="text"/>	*	<input type="text"/>	*	<input type="text"/>	*
C - Cold Deck	C - Any Combination	O - Ocular Estimate		X - Not Stratified	.02
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

And then click on Details to add the waste volume data.

Waste205 - Ocular Estimate

Reporting Unit ID:	12923	Forest District:	DAB - Arrow Boundary Forest District
Licensee:	SLOCIFCO 00	Option:	Ocular
Dispersed CV (%):		Accumulated CV (%):	
Licence No:	K2R	Cutting Permit:	2
Block:	1	Timber Mark:	K2R002
WASTE Block Status:	DFT - Draft	Exempted Block:	N
Harvest Status:	Complete		
Stratum:	CCOX		

6 rows returned

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m ³ /ha)	Estimate Volume (m ³)		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
1	FI	L	A	1	55.0	1.100	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
2	LA	L	A	1	55.0	1.100	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
3	FI	L	A	2	300.0	6.000	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
4	LA	L	A	1	265.0	5.300	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
5	CE	L	A	4	100.0	2.000	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
6	LA	L	A	4	70.0	1.400	<input type="button" value="Update"/>	<input type="button" value="Delete"/>

Onwards to the Check and Submit processes discussed in Sections 7.11 and 7.12 above, and you are done.

And be sure to check that the 0 benchmark is still there before you submit.

9. Errors and What to Do

9.1 You Find a Data Entry Mistake

The e-Waste system is pretty darn forgiving. If you find you have made a data entry mistake (very easy to do) it will let you go back and fix the offending error.

For example, I realized backing Section 7.7 that I had entered 1.0 ha not 0.99 ha for a dispersed stratum area.

Dispersed					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	1
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

To change this, I click Update beside the incorrect entry. This causes a data entry line to go "live" with my stratum information in it.

Dispersed					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	1
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	1
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

Change the offending data item and Save.

Dispersed					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	.99
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	1
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

Fixed.

Dispersed					
Waste Type	Harvest Method	Assessment Method	Plot Size (m ²)	Waste Level	Area (ha)
S - Clearcut	C - Any Combination	O - Ocular Estimate		L - Light	.99
					<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Details"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

The same sort of process applies through e-Waste. Update opens and existing item and lets you edit it.

Caveats

On-line help asserts that if you change any areas in the Waste 102 screen - like I just did - you need to go back into any Waste 205 screens that are affected and "refresh" them. (Waste 205 shown below.) This is because the Waste 205 screen uses stratum area to calculate either m³/ha or total m³, depending on what you enter in it.

Application Home
Help

Waste System

Search
Reporting Unit
Reports
Ledgers
Admin
Links

Waste205 - Ocular Estimate

Back

Reporting Unit ID: 11045 Forest District: DAB - Arrow Boundary Forest District
Licensee: WINLCRW 00 Option: Ocular
Dispersed CV (%): Accumulated CV (%):

Licence No: W1832 Cutting Permit:
Block: Timber Mark: WBJCR1
WASTE Block Status: DFT - Draft Exempted Block: N
Harvest Status: Complete
Stratum: SCOL

Piece #	Sp.	Kind	Waste Class	Grade	Estimate (m ³ /ha)	Estimate Volume (m ³)		
							Save	Cancel
*	*	*	*					

Back

Feedback
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At the time of publishing, I do not know process to "Refresh", and am out of Waste data to enter so I can not find out. As soon as I can, I will add the info here. You may have to open each volume entry, delete the m³/ha or the m³, and save.

9.2 You Submit and Then See Your Mistake

The "Aargh!!" moment.

Not sure why, but I always see the error after I press submit. I check the submission 3 times, it all looks good, I press submit and there it is.

There is no "unsubmit".

All you can do is send a polite email to your District waste person to tell them you made a mistake and to request that they reject your submission so you can fix your mistake. Tell them your name, Licence and Reporting Unit Number to make their job easier.

After they reject the submission for you, go back in, open your flawed submission, fix the error, and re-submit.

10. The End

That is all for now.

11. Appendix 1: Sections of Waste Manual Related to Ocular Estimate Method

1.2 Purpose and Rationale

1.2.1 Purpose

Waste assessments are carried out to bill licensees monetarily for timber except reserved timber, whether standing or felled, that was not removed from the cutting authority area and which meets or exceeds the timber merchantability specifications described below.

Table 1-1 Coast Timber Merchantability Specifications

Description		Mature*	Immature*
Stumps**			
•	no higher than	30 cm	30 cm
Top diameter (inside bark)			
•	all timber that meets or exceeds	15 cm	10 cm
Slab thickness:			
•	all slabs that meet or exceed (cedar only)	15 cm	10 cm
•	all slabs that meet or exceed (all other species)	10 cm	10 cm
Minimum length			
•	log or slab	3 m	3 m

* The selection of Mature or Immature is based on the determination of maturity in a timber cruise of the cutblock. Once a cutblock is determined to be "mature" in a cruise compilation (based on 50 + % of coniferous timber having an average age of 121 years or older and deciduous timber having an average age of 41 years or older), the Mature Timber Merchantable Specifications shall be used for waste measurement of all coniferous and deciduous timber left within the cutblock. Conversely where a cutblock belongs to immature in a cruise, the Immature Timber Merchantable Specifications shall be used for waste measurement of all coniferous and deciduous timber left within the cutblock.

Table 1-2 Interior Timber Merchantability Specifications

Description		All Stands	
Stumps**			
•	no higher than	30 cm	
Diameter (outside bark) at stump height			
•	Lodgepole pine: all timber that meets or exceeds	15 cm	
•	All other species: all timber that meets or exceeds	20 cm	
Top diameter (inside bark or slab thickness)			
•	For all species and ages, except Cedar older than 141 years, all timber that meets or exceeds	10 cm	
•	For Cedar older than 141 years	15 cm	
Minimum length			
•	log or slab	3 m	
**	Measured on the side of the stump adjacent to the highest ground.		

Waste volumes are measured and billed monetarily in accordance with the following Table 1-3.

Table 1-3: The Disposition of Waste Volumes in Monetary Billing

Table Values Effective May 1, 2006 (Valid for all Species)								
LOG TYPE	G R A D E S		ALL STANDS					
			AVOIDABLE (from field data)			UNAVOIDABLE (from field data)		
	Coast	Interior	Class W/X	Measure YES/NO	Rate * S/\$0.25	Class W/X	Measure YES/NO	Rate * S/\$0.25
Sawlog **	U or better	1 and 2	W	YES	S	W	YES	NB
Sawlog Hemibal	J or better							
Sawlog **	X		W	YES	\$0.25	W	YES	NB
Sawlog Hemibal	U							
Lumber Reject	Y	4	W	YES	\$0.25	W	YES	NB
Dead Dry Lumber Reject	Dry Y	Dry 4	X	NO	NB	X	NO	NB
Undersize		6	X	NO	NB	X	NO	NB
Firmwood Reject	Z	Z	X	NO	NB	X	NO	NB

Class: Waste, X other

Measure/Record: YES or NO

Rate: S = 12-month average Stumpage rate for all coniferous species, and the stumpage rates established in the Coast or Interior Appraisal Manual for all deciduous species, \$0.25 = fixed base rate. NB = No Billing.

All rates charged will include any bonus bids and levies where applicable.

X See Appendix 5 for waste benchmarks.

** On coast, all species except hemlock and balsam.

1.2.2 Rationale

The right to harvest Crown timber is granted in the form of agreements under the *Forest Act*.

The licensee has the discretion of whether or not to harvest the timber from the agreement area subject to the forest management standards required.

Pursuant to the *Forest Act*, an agreement holder must pay stumpage for timber that was harvested.

Under the *Forest Act* and the agreements, the licensee must pay a waste assessment for merchantable timber not harvested and for timber deemed to be wasted.

1.2.3 Definitions

“Waste” means timber, except timber reserved from cutting, whether standing or felled, which meets or exceeds the timber merchantability specifications described for the Coast and the Interior in this manual that was not removed from the cutting authority area.

“Unavoidable waste” means waste that:

- i) is inaccessible or physically obstructed;
- ii) could not be felled, bucked or removed due to safety or environmental reasons.

“Avoidable waste” means waste that does not fall within the definition of unavoidable waste.

“Merchantable timber” means timber that meets or exceeds the timber merchantability specifications that are described in Table 1-1 for the Coast and in Table 1-2 for the Interior in this manual. Timber that is graded dry Y (5) or Z (Coast), graded dry 4, 6 or Z (Interior) is not merchantable.

“Timber Merchantability Specifications” means stump height and diameter, log top diameter, slab thickness and log length described in this manual for the Coast and the Interior.

“Waste assessment” means an assessment conducted in accordance with the procedures set out in the *Provincial Logging Residue and Waste Measurement Procedures Manual* for determining the volumes of merchantable timber and waste left on a harvested area following completion of primary logging.

“Waste benchmark” means the volume of avoidable waste, expressed in cubic metres per hectare, that can be left on a harvested area without being subject to a monetary waste assessment.

1.2.4 Monetary Billings

Subject to the waste benchmarks described in Appendix 5, the avoidable waste volumes are billed as follows.

1.2.4.1 Coast

The avoidable conifer grade X, Y and grade U hemlock and balsam waste volumes are billed at \$0.25 per m³.

Dead/dry grade Y (grade 5) timber not removed from the harvested area is not measured in waste assessments.

The avoidable coniferous sawlogs Grade J or better hemlock and balsam and grade U or better for all other species waste volumes are billed at the average stumpage rates determined in Appendix 3 of this manual.

1.2.4.2 Interior

The avoidable waste volumes of grade 4, lumber reject; are billed at \$0.25 per m³.

The avoidable sawlog grades (1 and 2) volumes are billed at the average stumpage rates determined in Appendix 3 of this manual.

1.2.5 Deciduous

Deciduous species are treated the same as coniferous species for waste billing purposes. Deciduous timber within the merchantability specifications that is not harvested, is measured as waste.

1.2.6 Amount Payable

For merchantable Crown timber that is not cut and removed, the amount payable is calculated by multiplying:

- a. the volumes of avoidable waste reported in a waste assessment after deducting the waste benchmark volume allowed under Appendix 5, by
- b. the applicable stumpage rates as follows:
 - i) Coniferous species graded:
 - (a) sawlog - the rates specified in 1.2.4.1 and 1.2.4.2,

Revenue Branch

Policy and Administration

- (b) grades other than sawlog - the rates established as per *Coast and Interior Appraisal Manuals*,
- ii) Deciduous species graded:
 - (a) sawlog - the fixed rate for the species as specified in the appraisal manuals, plus any bonus and levies where applicable.
 - (b) Grades other than sawlog - the rates established as per appraisal manuals.

1.3 Authority

Waste assessments are carried out under the authority of:

1. The Forest Act.
2. The Waste Assessment Policy.
3. The Provincial Logging Residue and Waste Measurement Procedures Manual.
4. Agreement and Cutting Permit documents.

1.4 Background

Starting in the late 1960s, timber harvesting policy provided for waste measurements. At that time, in the Interior, waste measurement provisions were by and large not exercised except where waste was considered flagrant. On the Coast, waste was measured and charged for cut control purposes but only waste considered 'flagrant' was billed on a monetary basis. The definition of flagrant waste varied over the years.

In the mid-1980s some major forest companies on the Coast left very high levels of waste. In response to public outcries on the Queen Charlottes Islands in 1987, the Ombudsman commissioned T.M. Thomson & Associates to review a major coastal licensee's waste measurement procedures and utilization practices on the Queens Charlottes. The review determined that there was a need to develop consistent and enforceable utilization standards and waste measurement procedures for the entire province.

The responsibility for developing the utilization policy was placed with the Director of RTEB. The Coast and Interior utilization policies were implemented in the early 1990s. Both policies prescribed the minimum cutting specifications, log grade utilization and cut control requirements.

The responsibility for developing the waste measurement standards was placed with the Director of Revenue Branch. Necessitated by the implementation of the zero waste policy, the Residue and Waste Measurement Procedures Manual was released and approved for use in the entire province in 1991. All harvest completed cutblocks in the Interior and on the Coast were required to have waste measured and reported in accordance with the standards and procedures set out in the manual.

Until the year-end of 1998, the province had a zero waste policy. Under this policy, logs that were sawlog grade were required to be utilized (mandatory utilization); if they were not utilized and left on the cutblock, these logs were classified and billed as waste. This policy meant that all useable logs except low quality pulp (grade Y or 4) logs, were required to be removed from the cutblock by the company licensed to harvest the area. Under this policy, all logs that were sawlog grade and physically possible to be removed were required to be utilized by the licensees.


Starting in 1999, waste benchmarks were established to allow a volume of waste to be left without being monetarily billed. The waste benchmarks allow the licensees to decide which logs to remove or to leave behind as waste. The concept was that market forces would drive the business decisions. Licensees would recover logs to their economic margins. Another purpose of the waste benchmarks was to accommodate coarse woody debris, which is important in the nutrient and organic matter dynamics of forest ecosystems.

The benchmarks were not based on scientific studies or quantitative analyses. Rather, the benchmarks were set as a starting point to recognize that zero waste was not a sound

Prov. Log. Residue & Waste Measure. Proced. Manual Ministry of Forests and Range

ecological policy and economics was not served by compelling licensees to remove every log.

In the spring of 2003, the government announced the Forestry Revitalization Plan and brought forward legislation to reform forest policy. Waste policy was further aligned with the Ministry policy reform undertaken to allow market forces to drive business decisions. Foremost was the elimination of the mandatory species and log grade utilization (cut and remove) requirements, so that licensees are free to extract any logs of value to them within the cutting authority areas subject to the *Forest and Range Practices Act* and the required forest management standards. Licensees must pay stumpage on timber removed and scaled, and waste assessments on timber, whether standing or felled that was not removed from the the cutting authority area. This is referred to as the “Take or Pay” Policy.

- (4) Each cutblock within the aggregate reporting unit must be surveyed individually using the number of plots as calculated using the pertinent algorithm in Table 4-1 of this manual.
- (5) The  aggregate reporting unit must be sampled in accordance with number of plots required to meet the sampling error objective that applies to that reporting unit as required in Chapter 4 of this manual.
- (6) Where the holder of an agreement uses the aggregate option and did not meet the sampling error objective when using an aggregate option previously, the holder must use the next higher coefficient of variation required to be used by this manual unless the district manager determines that the use of the lower coefficient of variation will not create a significant revenue risk to the government.



2.4.3 Ocular Estimate Option

- (1) Where the holder of an agreement uses the ocular estimate option, each reporting unit may be comprised of one or more cutblocks.
- (2) Where the waste benchmark will be exceeded using the ocular estimate option, the holder of the agreement must use another option authorized by this manual unless the district manager determines that the revenue risk to the government caused by the use of the ocular estimate option is minimal.
- (3) Where the ocular estimate option is used, there is no requirement to meet the sampling error objective required under Chapter 4 of this manual.

3.3 Ocular Estimate (OE) Method

- (1) Where the estimated volume per hectare of avoidable waste on the cutblock is below the maximum volume prescribed in Table 3-2 of this manual, the use of the OE method does not require approval of the district manager.
- (2) The use of the OE method will not be permitted on a cutblock if the estimated volume per hectare of avoidable waste on the cutblock exceeds the maximum waste volume prescribed in Table 3-2 of this manual, unless the district manager determines that the use of this method will not create a significant revenue risk to the government.

Location of Cutblock	Stand Description	Maximum Avoidable Waste Volume (sawlogs)
In the Coast Forest Region	Second Growth	10 m ³ /ha
	Old Growth	35 m ³ /ha
In the Northern Interior or the Southern Interior Forest Regions	Dry Belt	4 m ³ /ha
	Transition	10 m ³ /ha
	Wet Belt	20 m ³ /ha

Table 3-2, Ocular Estimate Thresholds

- (3) Subject to subsection (4) of this section, the holder of an agreement may not use the OE method unless a licensed waste surveyor, licensed scaler, RPF or RFT certifies the accuracy of and submits the results of the assessment on behalf of the holder of an agreement to the district manager.
- (4) The district manager may permit the holder of the agreement to use the OE method and to submit the results of waste assessment directly to the district manager without the certification required by subsection (3) of this section where the agreement held by the holder is a woodlot licence, if the district manager determines that there is not significant revenue risk to the government by receiving the results of the waste assessment directly from the holder of the agreement.
- (5) Transect line or inspection plots:
 - (a) should be used when using the OE method and
 - (b) should be located in areas of the cutblock where the levels of avoidable waste reasonably represent the avoidable waste on the cutblock.
- (6) Where inspection plots are used, each plot should be:
 - (a) Circular or rectangular, and

(b) At least 50 m² in size.

- (7) Where a field audit conducted on behalf of the district manager determines that the waste assessment conducted by the holder of an agreement on the cutblock using the OE method does not reasonably represent the avoidable waste on the cutblock, the district manager may reject the waste assessment.

3.3.1 Ocular Estimate Field Best Practices

For the purpose of maintaining uniform standards, the following procedures are available for use in deriving the ocular estimates.

The surveyor is responsible for ensuring that the ocular estimates derived are defensible and valid for the cutblock.

The supporting ocular field data need not be submitted but must be made available when requested by the Ministry of Forests, Lands and Natural Resource Operations staff.

1. Dispersed Stratum

a. Plots:

- Put in inspection plots, circular or rectangular (at least 50 m² in size) in areas that reasonably cover the different waste types on the cutblock, or

b. Transect:

- Put in transect lines that provide good sample coverage of the stratum being surveyed,
- Start from the road or a good tie point (marked and ribboned), traverse at an angle to the boundary and then traverse back to the road on a different pathway,
- The width of the transect line should provide good access for clean readily accessible measurement (usually 2 to 5 metres). Measure all the pieces within the transect area.

2. Accumulated Stratum

a. Wrap Around:

- Measure all waste pieces that can be reached on the outside of the entire pile or

*Revenue Branch**Alternative Methods*

b. Sectional Wrap:

- For very large piles, divide the pile into equal halves, mark the dividing points for the halves. Perform a wrap around one-half and if the half is unreasonably large, cut in half again and perform the wrap around on an equal quarter, or

c. Swath Method:

- This is the same as the dispersed transect method. The swath must be wide enough to give a reasonable sample (10 m) or use multiple smaller (5 m) swaths. This is usually appropriate for windrows, or

d. Plot on Top of Pile:

- Where there is no safety concern, use the procedures described in section 5.1.7.

Respecting each of above, apply a measure factor (MF) to the portion of the pieces or sampled areas that were measured. Strive to measure as many pieces as possible; the estimates will be more accurate with a higher MF.

12. Appendix 2: Using HBS to Verify a Timber Mark

If you have the CP Documents or some scale returns at your finger tips, you can look up the timber mark for a block.

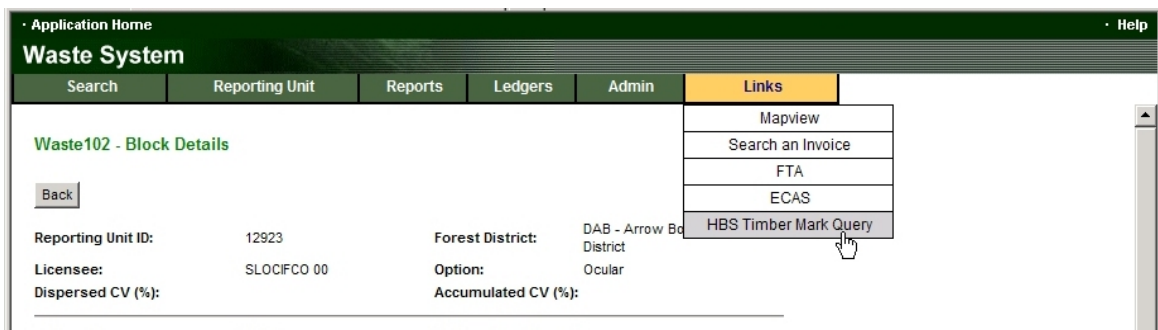
Timber marks, especially on older harvest authorities, often had some variation - WL438B vs W0438C, for example.

If you are at all unsure, you can use HBS to quickly look up the mark and verify it.

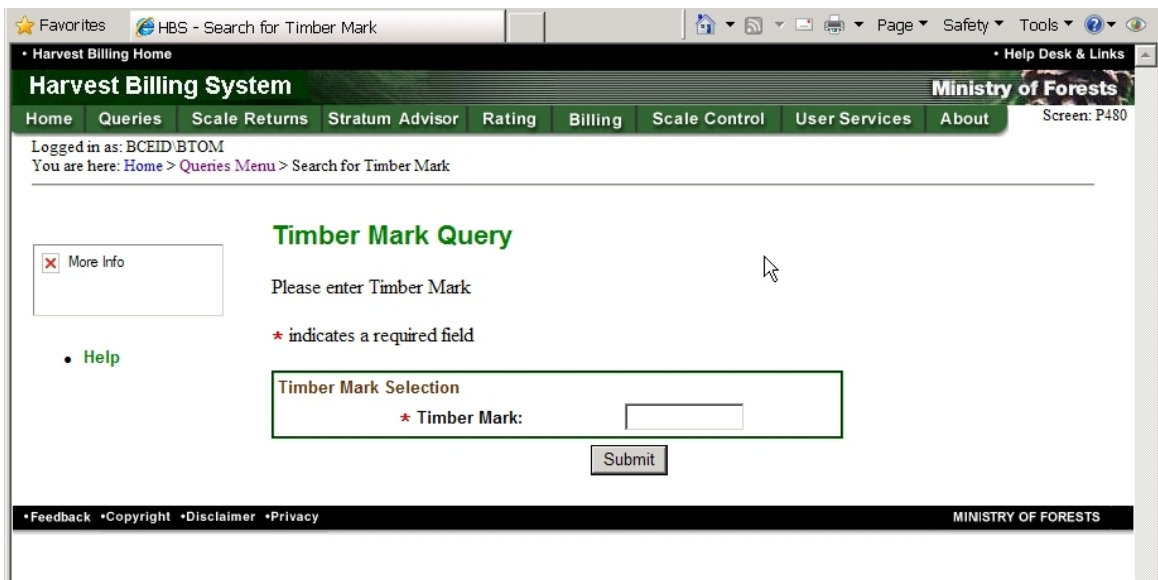
Two Options:

12.1 You Are Registered Industrial User with HBS

Simple. The top of screen menu bar in Waste provides one-click access to HBS Timber Mark Query under Links:



It opens HBS in a new browser window while retaining your current Waste login:



Kind of an example of how systems should work.....


Enter what you think the mark is and Submit .

Harvest Billing Home Help Desk & Links

Harvest Billing System Ministry of Forests

Home Queries Scale Returns Stratum Advisor Rating Billing Scale Control User Services About Screen: P480

Logged in as: BCEID.BTOM
You are here: [Home](#) > [Queries Menu](#) > Search for Timber Mark

 **MORE INFO:** Please enter Timber Mark

* indicates a required field

- [Help](#)

Timber Mark Selection

* Timber Mark:


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Results of query discussed at end of this Appendix.

12.2 You Are Not Registered with HBS

If the BCeID you use to access the e-Waste system is not registered with HBS, you need to use the slightly more circuitous Public route to HBS.

Usual starting place. You want the Home Page link for HBS.



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[Main Index](#)
[Help](#)
[Contact Us](#)

Search

Text Size

B.C. Home
 Ministry Home
 Application Bulletins
 → View Bulletins
 → Application Index
 → Search
 → Email Subscriptions
 → Help

Key Indexes
 → News
 → Offices and Programs
 → Statutes and Regulations
 → Reports and Publications
 → Applications and Services
 → Forms Index
 → Subject Index
 → Telephone Directory

Government
 Quick access to information based on government's structure
 → B.C. Government
 → Ministries and Organizations
 → Other Levels of Government

B.C. Home » Ministry Home » Application Bulletins


Key Applications

If you find an application is not responding please check the application home page or [Application Bulletins](#) before contacting support. The application links below may also be restricted access, see the application home page on how to obtain access.

Hover over application acronyms for the full application name and business area. Hyperlinked acronyms will have associated bulletins.

Application	Application	Home Page	FAQ/Help	Support	RSS
ADAM	External	External		<input checked="" type="checkbox"/>	RSS
ARM				<input checked="" type="checkbox"/>	RSS
CENGEA FOREST			FAQ/Help	<input checked="" type="checkbox"/>	RSS
CRS	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
ECAS	External	External		<input checked="" type="checkbox"/>	RSS
ESF	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
FREP_IMS	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
FSP	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
HBS	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
IAPP	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
LEXIS	External	External		<input checked="" type="checkbox"/>	RSS
MapView	External		FAQ/Help	<input checked="" type="checkbox"/>	RSS
NOTICES	External		FAQ/Help	<input checked="" type="checkbox"/>	RSS
NSA	External	External		<input checked="" type="checkbox"/>	RSS
RESULTS	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
SCS	External	External		<input checked="" type="checkbox"/>	RSS
SEEDMAP	External	External		<input checked="" type="checkbox"/>	RSS
SPAR	External	External	FAQ/Help	<input checked="" type="checkbox"/>	RSS
WASTE	External	External		<input checked="" type="checkbox"/>	RSS
WMB Apps			FAQ/Help	<input checked="" type="checkbox"/>	RSS
Note: It is recommended you subscribe to Infrastructure bulletins as these may apply to several or all of the applications.					RSS
Subscribe to receive all bulletins for all applications.					RSS

The home page opens (really!). You want the little Public link over on the left side of screen.


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[Main Index](#)
[Help](#)
[Contact Us](#)

[B.C. Home](#)
[Ministry Home](#)
[HVA](#)
[Systems](#)
[Harvest Billing System \(HBS\)](#)

Harvest Billing System (HBS)

Overview

The Harvest Billing System (HBS) is a scale data management and invoicing system. Scaling data is submitted by the Forest Industry to the Ministry of Forests, Lands and Natural Resource Operations electronically or through online entry in HBS. It supports submission of detail data through XML. XML format must conform to the XML Schema as provided in the [Technical Specifications](#) section. Scaling data is validated and stumpage invoices or volume statements are calculated, issued and delivered to clients.

HBS has a number of core business functions. It allows for:

- The submission of detail scale data,
- Resubmission or online correction of scale data,
- Issuing for stumpage,
- Override rate management,
- Reporting on scaling and issuing activities,
- Profile management,
- User management,
- Scale control and anomaly management, and
- Electronic delivery of invoices and volume statements.

The system has a number of types of users: members of the public, Ministry of Forests, Lands and Natural Resource Operations staff, industry users involved in the collection and submission of scale data, scale site software vendors and scale data submission agents. All members of these groups, except the public, are registered HBS users. To become a registered user of HBS, please obtain a Business BCeID from <https://www.bceid.ca/>, then see [Industry Information for Connecting to HBS](#) for more details on how to connect.

If you encounter any difficulties in using HBS, the NRS Service Desk (NRS) or Billing Business Support (BBS) Desk may be able to assist you.

Toll Free	1-866-952-6801 (NRS) 1-877-387-8349 (BBS)
In Victoria	250-952-6801 (NRS) 250-387-8349 (BBS)
Fax	250-387-9738 (BBS)
Email	nrsenquiries@gov.bc.ca (NRS) FORHVAP.BillingBusSprt@gov.bc.ca (BBS)

B.C. Home

Ministry Home
Timber Pricing Branch
Harvest Billing System (HBS)

[Application News](#)
[Connecting Industry](#)
[Technical Specs](#)
[Approved Scaling Software](#)

User Surveys
[Training Survey](#)

Help Resources
[HBS Online Help](#)
[QuickRef Guides](#)
[FAQs](#)
[Code Reference](#)
[Web-based Training](#)
[Training Materials '08](#)
[Notes](#) | [No Notes](#)
[Forms Index](#)

Key Reference Guides
[Industry](#)
[Ministry](#)
[Waste Billing](#)
[HBS Cruise Based Billing Procedures](#)
[Interior HBS Area Based Billing Procedures](#)

Application Link
[Public](#)
[Ministry & Industry](#)

Timber Pricing Branch
[About Us](#)
[Publications](#)
[Systems](#)
[Policies](#)
[Internal Webpage](#)

Red bullet denotes Forest-Service Only


New page, you want Timber Mark Information.

Harvest Billing Home Help Desk & Links

Harvest Billing System Ministry of Forests

Home FAQ Glossary HBS Info HBS Manuals Screen: hor

You are here: Home



- [Help](#)
- [User Support Bulletins](#)

Welcome to the Harvest Billing System

Queries

You can request the following reports on-line:

Harvest Reports

- [By Date of Invoice \(Billing History\)](#)
- [By Date of Scale \(Scaling History\)](#)

Invoice Copies

- [Single Invoice](#)
- [Multiple Invoices](#)

Ratio, Sample, and Volume Statement Copies

- [Single Statement](#)
- [Multiple Statements](#)

Scale Returns

- [Single Detail Return](#)
- [Multiple Detail Returns](#)
- [Single Summary Return](#)
- [Multiple Summary Returns](#)

Special Reports

- [List of Invoices and Volume Statements](#)
- [Scale Site Summary](#)
- [Cut to Cruise Comparison](#)

Other Queries and Menus

- [Timber Mark Information](#)
- [Stumpage Rate Search](#)
- [Stratum Advisor Menu](#)

Public User services

- [Register](#): on-line HBS enrolment and client verification.

Enter what you think the mark is and Submit .

Harvest Billing Home Help Desk & Links

Harvest Billing System Ministry of Forests

Home FAQ Glossary HBS Info HBS Manuals Screen: P480

You are here: [Home](#) > Search for Timber Mark

Timber Mark Query

Please enter Timber Mark

* indicates a required field

Timber Mark Selection

* Timber Mark:

• [Help](#)

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12.3 Query Results

If the mark is valid, you get a page of info, shown below. A quick scan indicates that it is for W1619 in DOS, is pretty old and (this is interesting) was cruised and appraised and has a net area per appraisal of 73.2 ha. That net appraisal area is what we are supposed to use in e-Waste for net area on an appraisal block. (In tab rates, we just use block areas. See Section 7.2 .

Timber Mark Info			
Timber Mark:	W1619B	Cutting Permit:	B
Status:	LC Logging Complete	Catastrophic:	N
Expiry Date:	2010-Jun-27	Cruise or Area Based:	N
Extended Date:	2013-Jan-01	SB Category:	N
Issued Date:	2005-Jun-28	SB Fund:	N
Sale Method:	T Auction, Sealed Tender	Admin Org:	DOS Okanagan Shuswap Forest District
Geo Org:	DOS Okanagan Shuswap Forest District	Quota Type:	A Normal replaceable AAC
Region:	RSI Southern Interior Forest Region	Location:	N/A

Tenure Info	
Licence:	W1619
Awarded Date:	1998-Dec-17
Expiry Date:	2018-Dec-16
Extended Date:	2028-Dec-16
File Type:	A04 Woodlot Licence
File Status:	HI Issued
Payment Method:	A Automatic Invoice
MGU Type:	F Woodlot
MGU Id:	N/A
Extensions:	1

Client Info	
Client No:	00109036
Location:	00
Type:	I - Individual
Status:	ACT - Active
Client Name:	Not Releasable
Location Name:	Not Releasable
Address:	Not Releasable

Appraisal Info			
Status:	CNF	Effective:	2005-Jun-28
Method:	Interior	Expiry:	2013-Jan-01
Total Merchantable Area:	73.2 Ha	Rate Calc:	CVP
Coniferous Stand Rate Eligibility:	Sawlog Grades	Adj. Quarterly:	N
Deciduous Stand Rate Eligibility:	No Grades	Tied To:	FI

Appraised Species	Cruise Volume
FI	4247
LO	166
SP	317
Total:	4730

Rate Effective Date	Reserve Rate	Dev. Levy	Silv. Levy	Bonus Bid	Stand Rate
2005-Jun-28	5.99	0.00	0.00	0.00	5.99

Species Code	Grade Code	Product Code	Reserve Rate	Dev. Levy	Silv. Levy	Bonus Bid	Fixed Rate
FI	2		5.51	0.00	0.00	0.00	5.51
FI	1		5.51	0.00	0.00	0.00	5.51

If not valid, you get the usual raspberry from The System. If not valid, you could try a few variations to see if you can guess it, or start making inquiries to see what the mark really is.