# GN MN

## LOCALITY MAP Western Region - Harvest Plan WCi1510

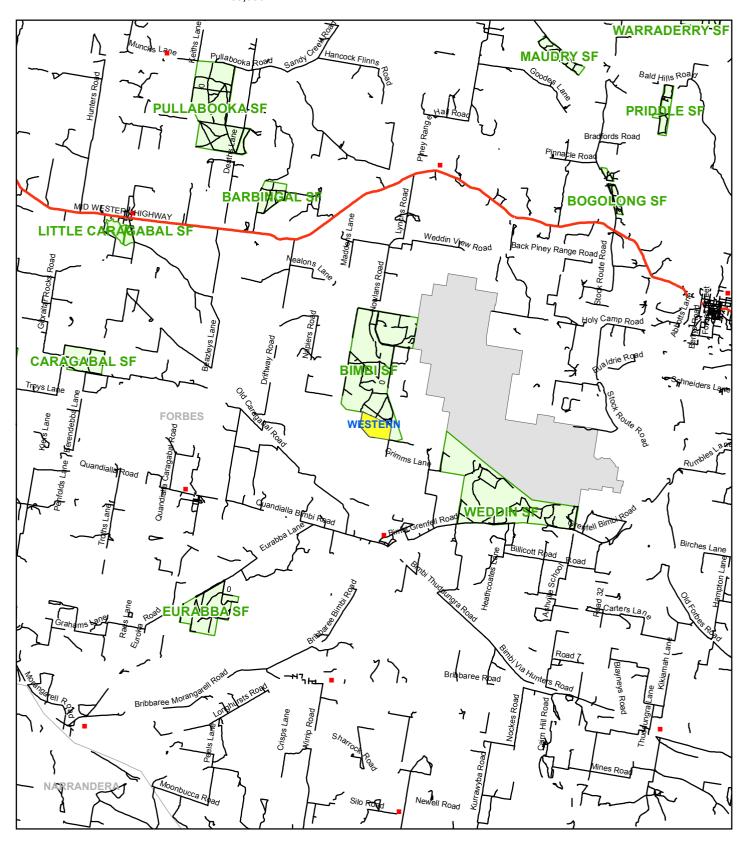


Management Area: FORBES

State Forest No: 690

Scale: 1:250,000

State Forest Name: Bimbi
Compartment: 243
Compartment Area: 232 ha



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Kilometres

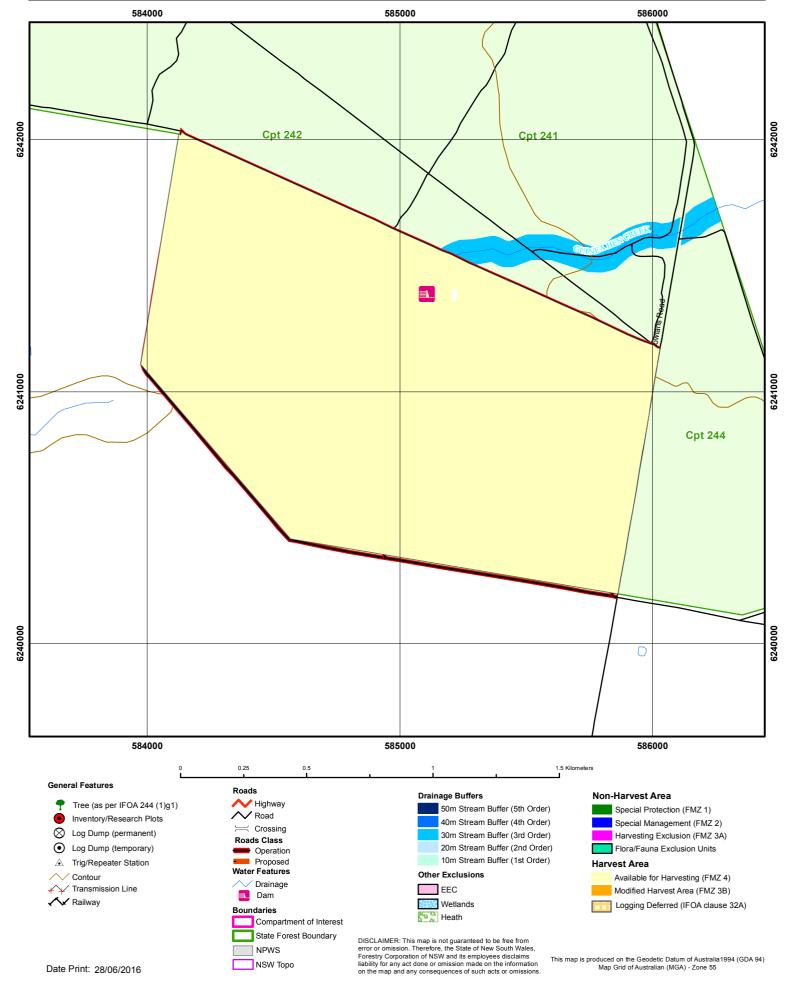
── Highway── Roads■ LocalityCompartment(s) of interestState ForestNPWS

#### HARVEST PLAN OPERATIONAL MAP

Western Region - Harvest Plan WCc1510 State Forest Name:Bimbi

Compartment: 243







#### FORESTRY CORPORATION OF NSW - WESTERN REGION

#### NATIVE FOREST HARVESTING PLAN No. WCi1510

Refer: FPC 2010/01

#### Bimbi State Forest - Compartment 243

## Certification This plan has been prepared in accordance with the Integrated Forestry Operations Approval issued under the Forestry and National Park Estate Act 1998. The Standard

Approval issued under the Forestry and National Park Estate Act 1998. The <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region – South-Western Cypress v.3</u> apply to this operation.

Prepared By: S Grallelis	Endorsed By: Ross Irvine	Approved By: Andrew O'Brien	
Asst District Manager	Environment & Resources Mgr	Senior Manager	
Signature Mpollles	Signature	Signature	
Date 9/15/2016	Date 3 15 / 2016	Date 3 <u>0/57</u> 2016	
corresponding approval da Locality and forest type m part of this approval.	ne Harvest Plan Operational Map ate displayed on the map, verifyir aps may be included for informat	ng final approved version. ion only and do not form a	
PRE-OPERATIONAL BRIEF	ING (SUPERVISING FOREST OFFI	ICER ACKNOWLEDGMENT)	
I confirm that I have recei	ived a copy of the Harvest Plan f	for the above Compartment. I	

I confirm that I have received a copy of the Harvest Plan for the above Compartment. I have been briefed on the conditions of the Plan. I understand the requirements for supervision and operational control as explained to me by the Forest Manager or his/her delegate.

delegate.	
SUPERVISING FOREST OFFICER:	
Signature:	Date:
PRE-OPERATIONAL BRIEFING (LICENSEE/O	CONTRACTOR ACKNOWLEDGMENT)
I confirm that I have received a copy of this	s Harvest Plan and that:
	Plan, present at this briefing, prior to them starting Plan, as explained to me by a Forestry
Signature:N	ame:Date:
Position:	Licence No:
Principal licensee/contractor/other (expl	ain)

#### **Description of Proposal**

White cypress sawlogs and green residue will be harvested under regulation of the Integrated Forest Operations Approval for South-Western Cypress Region.

The operation will use mainly mechanical harvesting and processing to produce logs and forward them to dumps. The logs will be removed from the forest by truck.

Natural regeneration is planned. No after-harvest burning or planting is proposed.

No construction, reopening or upgrading of roads or bush tracks is proposed. Prescriptions for maintenance of existing roads and tracks are specified below.

#### **Area Identification and Yield Estimates**

State Forest	Compartment/s	Region	Management Area	Plan Number
Bimbi	243	Western	Forbes	40771

COMPARTMENT	243	
Plan Compartment ID	52156	
Gross Area (ha)	231.6	
Net Harvest Area (ha)	185.3	
High Density Area (Y/N)	Yes	
Estimated Yield Cypress	1230	
Sawlog (m <sup>3</sup> or t)	cu.m	
Estimated Yield Residue (t)	200t	

Note: The Gross Area, or net mapped operational area, is 232 ha approximately. In accordance with clause 32 of the South-Western Cypress IFOA areas selected for logging must not exceed 80% (NHA) of the net mapped operational area. Harvesting operations will be closely monitored by the most appropriate method to ensure compliance.

#### Silviculture and Harvesting Prescriptions

The planning area has a long history of silvicultural treatment and logging with reliable records going back to before the 1950's.

The mature cypress stands within compartment 243 were established during regeneration events in the 1890's. This compartment has had a history of a variety of intensity of logging within small patches, having been used as a quick access site during wet weather events weather.

Additionally, silvicultural treatment (as a cull thinning operation) has been undertaken on small patches throughout the compartment during the same period.

Regeneration has established as a result of this disturbance and created conditions suitable for release and thinning harvest.

Because of the patchiness of the previous operations, the area of each silvicultural treatment will be difficult to map separately, and thus individual records will not be maintained.

#### Silvicultural Planning

The 'release' operation is aimed at releasing established regeneration from competition with the mature over-storey. Once released, the stand will require thinning in the next 15-20 years.

The cypress thinning operation is aimed at reducing competing stems whilst concentrating growth on the retained, higher quality, future sawlogs. This stand will require further thinning in around 15-20 years.

#### **Harvesting Prescription**

Stand type	% of net area	Area (refer to HPOM for details)	Treatment Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 for more detail.
Mature Cypress with adequate regeneration.	60%	Comp't 243	Release cypress silviculture.
Mature Cypress without regeneration	40% NHA	Comp't 243	Thinning silviculture

The SFO will ensure that all relevant tree retention and silvicultural prescriptions are met during harvesting operations.

The operation must, as far as practicable, not damage individual plants of good form regeneration or sapling size of white cypress or ironbark, especially where there are few others nearby.

#### **Tree Marking**

The area will be tree marked for **retention**. The operation must, as far as practicable:

- For the allowed species, fall each tree not marked for retention, unless it clearly does not meet the product standard, and
- Not fall or damage trees marked for retention, or marked as boundary trees.

#### 4. **Special Conditions**

#### Critical boundaries

The Compartment is bounded by forest roads on three sides with a Council road outside the eastern boundary of the harvest area. Fences define the eastern, southern and western boundary of the harvest area, with the northern boundary defined by a forest road. Refer to the Operational map for more detail. Marking of the compartment boundary is not proposed.

Private Property – Is adjacent to the southern and western boundaries of the harvest area.

National Park – Nil adjacent. Note that there is a Tourist point located in national park approximately 8kms north of the harvest area. This point may be accessed by tourist traffic on the Council road.

#### Research / Inventory Plots

No current research plots or trials are known in this compartment.

There are a number of temporary inventory plots within the harvest area which, if found, should be treated under normal harvesting prescriptions.

#### Leases/OPs

The area is covered by an Occupation Permit for grazing.

#### Infrastructure

- Fences. No fence may be damaged except at places approved by the Supervising Forest Officer. Any damage to a fence by the Contractor must be immediately reported to the lessee via the Supervising Forest Officer and fixed immediately by the Contractor.
- Gates and roads. The Contractor must keep the gate(s) on the property as found (open or closed). Existing roads must not be blocked or damaged. Any damage must be repaired immediately.
- <u>Debris</u>. Logging debris must be prevented from accumulating within 5 metres of any protected tree during a logging operation. If it does accumulate, then it must be flattened to a height less than one metre, minimising disturbance to the ground.
- Apiary Sites. A 20m buffer must be applied around each bee hive encountered.

#### **Transmission Lines/Cables/Pipelines**

There are no known electrical transmission lines present in the harvest area. However, contractors are reminded that if they encounter a transmission line then:

• Harvesting machinery must not operate within 20m of this transmission line.

#### **Forest Management Zoning Conditions**

FMZ 3A: A drainage line with FMZ 3A encroaches into the northern part of the compartment, but does not extend into the compartment. The accompanying drainage buffer will be marked for exclusion from harvesting.

FMZ 4: 'General Management' occurs within the compartment (shown on HPOM). Normal harvesting prescriptions apply in this area.

#### **Cultural Heritage Conditions**

There are no cultural heritage sites (Aboriginal or non-Aboriginal) known in this compartment. However, a potential Aboriginal cultural heritage site has been observed and will be appropriately buffered.

If a site that might be a cultural heritage site is found:

- Its location must be promptly reported to the Forestry Office via Supervising Forest Officer.
- A 20m no-harvest zone must be applied around this site until advised otherwise.

#### Flora and Fauna Conditions

There are no current records of species of concern or threatened species that require specific conditions.

However, the SFO must search for threatened species and mark-up the block as per the <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region.</u> <u>– South-Western Cypress v.3</u>.

#### **Mark-up Conditions**

Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 for prescriptions.

#### **Tree retention Conditions**

Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 for prescriptions.

#### Site-Specific Conditions, Exclusion Zones & Modified Harvest Areas

There are no known areas of heath, rocky outcrops, cliffs and/or endangered ecological community (EEC) occurring within the net operational area that need additional harvest exclusions or modified harvesting zones implemented.

The SFO should watch out for any of these areas that may occur, and record them in their SFO notes and on their maps, and apply appropriate protection.

Large habitat trees (LHTs) recorded during traverse survey are shown on the operational map. Additional LHTs may be identified as mark-up progresses.

Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 for prescriptions.

#### Species Known or Likely to Occur

There are no current records of Threatened fauna or flora present within the planning area that require prescriptions within this plan.

Contractors and supervisory staff must immediately report any sightings of TSC Act, Schedule 1 and 2 species to the Supervising Forester. Appropriate action must then be taken, which may include amending the Harvesting Plan to include additional prescriptions if necessary. Refer to Section 6 and/or Section 6.2 of the Standard Harvest Plan Conditions for Native Forest Operations in Western Region. - South-Western Cypress v.3.

#### **Fisheries Licence Conditions**

Applicable Fisheries Licence conditions are detailed in the South-Western Cypress – IFOA. Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 for prescriptions.

#### **Soil and Water Protection Conditions**

Applicable Environmental Protection Licence conditions are detailed in the South-Western Cypress – IFOA. Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. - South-Western Cypress v.3 for prescriptions.

Site-specific EPL conditions – The following features occur within the planned area. Refer to operational map for more detail.

Elements	Conditions
Unmapped Drainage Lines	5m Drainage Feature Protection Zone
3rd order mapped drainage line or mapped drainage depression	30m Drainage Feature Protection Zone
Dams	10m

It is the responsibility of the SFO to identify any exclusion areas which will need to be crossed during harvesting. The SFO should then contact the Planning Forester to obtain the necessary approval.

There are no Road, snig / extraction track drainage line crossings anticipated or approved for use on drainage features within this operation.

There are no drainage feature crossings proposed to be used during this operation. However, if any are required then sufficient forward notification (at least a week) is required to enable soil samples to be taken for sediment testing and Schedule 3 approvals, and their location recorded in the table below.

Drainage Feature	Road / Bush Track / Extraction Track	Soil Dispersibility Assessment Date (IFOA Clause 299)	Regional Manager / EPA Approval Date or N/A

Copies of the Schedule 3 Approvals <u>must be attached</u> and any site-specific prescriptions in those approvals must be applied as conditions of this plan

#### **Road Works Conditions**

Nil required.

#### **Legal Conditions**

This operation may only proceed while this operational plan, the relevant site safety plan and the <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</u> are held on site.

This operation must comply with the following:

Standard Harvest Plan Conditions for Native Forest Operations in Western Region – South-Western Cypress v.3
Tree-marking Protocol for Native Forest Operations in Western Region – South Western Cypress

☐ Licence conditions issued by Forests NSW under the Forestry Act (2012).

# Harvesting Plan WCi1510 – Compartment 243, Bimbi State Forest, Forbes Management Area Forest Practices Code, Part 2, Timber Harvesting In Native Forests (4<sup>th</sup> edition 1999). Forest Practices Code, Part 4, Forest Roads and Fire Trails (1999). Integrated Forestry Operations Approval issued under Part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended July 2013 including associated licences:

- Threatened Species Conservation Licence (TSCL) issued under the Threatened Species Conservation Act 1995
- Fisheries Management Licence issued under Part 7 (Div 3) Fisheries Management Act 1994
- Environmental Protection Licence (EPL) issued under the Protection of the Environment Operations Act 1997.

#### SFO FEATURE USAGE RECORD - LOG DUMPS

#### Dates of commencement and cessation of logging

Date of commencement of logging:	
Date of cessation of logging:	
DUMP USAGE RECORD	

Record the commencement and completion of harvesting at each dump

Dump number	Start date	Finish date	Easting*	Northing*	**Temporary track drainage Required?	Comment

<sup>\*</sup> GPS coordinates in GDA 94 MGA Zone 55:

<sup>\*\*</sup> If a downhill extraction track enters a log dump from the uphill side, then at the end of each day on which it is used during a logging operation, a drainage structure must be in place on the extraction track within 40 metres of the log dump, on its uphill side.

### **Supervising Forest Officer's Notes**

Data	Cupor vising Forest emissi 3 Notes	,
Date (dd/mm/yy)	Authorisation given / hazard identified / instruction made / comments	Licensee/contractor acknowledgment
1 1		
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Certificate Of Clearance To Move From Current Compartment(s)
To:, Supervising Forest Officer.
I request approval to move my logging crew and all associated machinery from Compartment(s) in State Forest to the next area in accordance with Section 5.5 of the Forest Practices
Code Part 2 Timber Harvesting In Native Forests.
I certify that:
all permanent roads, trails and mitre drains have been cleared of harvesting debris;
butt damage to retained trees has been kept to acceptable limits;
all trees marked for removal have been felled;
utilisation limits have been satisfactorily met;
stump heights conform to requirements;
all hanging trees have been brought down;
all log dump sites have been satisfactorily restored as required;
harvesting debris is not accumulated around retained trees;
all accumulated litter has been disposed of properly;
all modified harvesting conditions have been complied with;
all snig track and road drainage has been installed satisfactorily and other required rehabilitation work has been completed;
all necessary repairs to damaged roads, signs, fences and other structures have been carried out.
I believe that I have met all my obligations under the conditions of the Timber Licence that applies to the area just completed and any N&PW Act Licence that applies to the area just completed, as stated in this Harvest Plan.
Signature: Licence No:
Licensee/Contractor Date:
As a result of inspections of the logging operations carried out in accordance with this Harvest Plan, I am satisfied that, to the best of my knowledge, the harvesting licensee/contractor responsible for this harvesting operation has satisfactorily completed all work. Approval is given for her/him to remove her/his machinery and equipment and leave the area/commence operations in another harvesting plan area, being:  Compartment(s):, in State Forest.  This clearance does not release the licensee/contractor from any obligation to undertake any remedial work if deficiencies, found during any inspections of the area made within 12 months of the date of this post-harvesting inspection, are shown to have resulted from inadequate practices during the harvesting operation.  Date of last inspection of the area by the Supervising Forest Officer:
Supervising Forest Officer, Signature Name
Date:

# HARVEST PLAN AMENDMENT RECORD

	Amendment No. & type		Date Prepared	Amendment Details	All Copies Amended	Signature
Number	Major	Minor				
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

**Note**: The purpose of this log is to track amendments to the Harvest Plan from time of first approval. All maps, Harvest Plans etc. are to be clearly identified with a version # and date so that changes to the Plan may be clearly identifiable. The Harvest Planner is responsible for ensuring all amendments are implemented, recorded and filed

#### Supervising Forest Officer's Hand-Over Acknowledgment

I confirm that I have received a copy of the Harvest Plan for the above Compartment. I have been briefed on the conditions of the Plan and the progress of the operation. I understand the requirements for supervision and operational control, as explained to me by the current SUPERVISING FOREST OFFICER.

Signature:		Date:	
	Incoming Supervising Forest Officer		
Signature:		Date:	
	Incoming Supervising Forest Officer		
Signature:		Date:	
	Incoming Supervising Forest Officer		
Signature:		Date:	
	Incoming Supervising Forest Officer		
Signature:		Date:	
	Incoming Supervising Forest Officer		
Ciamatura.		Deter	
	Incoming Supervising Forest Officer	Date:	

## RECORD OF INCIDENTAL THREATENED PLANT OR THREATENED FAUNA FEATURE SIGHTING

- For each occurrence/population sighted/identified, a separate form 5 must be filled out and
  provided to the Region Ecologist as soon as practicable. The details must also be recorded on
  this form in the Supervising Forest Officer's copy of the operational plan, with the date the
  separate form 5 went to the Ecologist.
- Some features or species require no further prescription but should still be recorded while other features or species require an immediate prescription and/or further survey before logging may continue in the vicinity.
- Locations of species/features recorded on this form should be noted on the operational map.
   IR form = incidental record form 5. ECO = Regional Ecologist

Species or features detected (include type, number, etc.)	Map datu Location ( <b>MC</b>	m GDA94 GA reference)	Action taken	Date IR form
	Easting (6-digit)	Northing (7-digit)		given to ECO

#### Supervising Forest Officer's Post-Harvesting Notes

Record significant circumstances about harvesting this area. Draw or attach an annotated operational scale map.

**ACTUAL AREA HARVESTED** (by silvicultural treatment)

Treatment	code on	Area (ha)	REGEN	N QUAL	ITY	REGEN DENSITY			
	map	treated	Good	Fair	Poor	Dense	Fair	sparse	COMMENTS
THINNED	T1								
	T2							•	
RELEASED	R1								
	R2								
SALVAGE	S1								
	S2								
Not	NH1								
Harvested	NN2								
	NH3								

		NH3										
	DOCCIDI E	NEVTII	ADVECT				Main 10			A so A	!a!.a.a.al a	li una a
	POSSIBLE			= hardw	nod			oduct t	<b>ype</b> vant cell)	High	icipated vo	Low
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							uality sa		og			<u></u>
							ng/posts	w				
								(cypress	-)			
						Resid		(cypress	5)			
Γ	Code on ma	n Com	ment					 Non-mor	chantable			
	Couc on ma		0 to 5 years	to nevt	harvest	Tiabile	11 11 000 7	NOTITICE	CHARICADIC			<u> </u>
		I	5 to 10 years			·· <b>-</b> ······				<b>-</b>	<b>-</b>	
			10 to 20 years			·						
			20 to 30 years								····	
-			30 plus years								····-	
∟ 1.	Movious o		nental weed p			role of fo	ral anima	Luco				
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2.	Sites of so	il erosion	for attention.									
3.	Boundary	compromi	sed; neighbo	ur issues	s resultino	a from lo	aaina or	haulage.				
-			, <b>g</b>		,	J	333					
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4.	Operation	шар епог	s for attention	i (e.g. 10	rest type	; roaus)	oi appioi	mate sta	ii (e.g. Gis	s, Platitiet)		
••••												
5.	Any other	comments	s – SUPERVI	SING FO	OREST C	FFICER	? / FA / Fo	orester				

#### RECORD OF BASAL AREA SWEEPS OF ALL RETAINED STEMS - 10cm dbhob or larger

Date	Before or	Category		Com	onent	
(and GPS grid ref optional)	after harvest		All trees	White cypress	Ironbark	Other species
	Before	merchantable				
	OR	pre-merch				
	After	non-merch				
		total				
trees marked for (circle	correct one): ret	ention / removal				
	Before	merchantable				
	OR	pre-merch				
	After	non-merch				
		total				
trees marked for (circle	correct one): ret	ention / removal				
	Before	merchantable				
	OR	pre-merch	-			
	After	non-merch				
		total				
trees marked for (circle	correct one): ret	ention / removal				
	Before	merchantable				
	OR	pre-merch				
	After	non-merch				
		total				
trees marked for (circle	correct one): ret	ention / removal				
	Before	merchantable				
	OR	pre-merch				
	After	non-merch				
		total				
trees marked for (circle	correct one): ret	ention / removal				
	Before	merchantable				
	OR	pre-merch				
	After	non-merch				
		total				
trees marked for (circle	correct one): ret	ention / removal				
	Before	merchantable				
	OR	pre-merch	-		-	
	After	non-merch	-			
		total				
trees marked for (circle	correct one): ret	ention / removal				

BA is measured at 1.3m above the ground, and does not include stems less than 10cm diameter at that point.

#### Operational plan distribution and amendment control sheet ('DACS')

Date approved by RM	Plan number	See page header	State Forest or Property/County	See page header
Date Environment & Resources Manager review is required			Compartment or Parish/Portion or Lot/DP	See page header

Amendment: Normally the supervising Forester would amend the Office, Forester and SFO copies on explaining the amendment to the SFO, and should annotate the Amendment record (Form 11) in them. The SFO (or Forester as applicable) should amend the bush crew copy/copies when explaining it to the bush operators, and should annotate the Amendment record (Form 11) in it/them.

Plan copy	Name of recipient	Delive	ry to rec	ipient			А	mendme	ent affe	cted in p	lan cop	ies			Plan	recall
	·	Method	Date	Ву	,	1		2	,	3	4	4		5	Date	Date
		H = hand	done	(initials)	Date	Ву	Date	Ву	Date	Ву	Date	Ву	Date	Ву	received	destroyed
		E = email M = mail			done	(initials)	done	(initials)	done	(initials)	done	(initials)	done	(initials)		
RO																
Ops Centre																
Supervising Forester																
SFO																
Bush crew supervisor																
Contractor																
Customer																

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#### CERTIFICATION OF COMPLETION OF THE OPERATION

This checklist is intended to comprise the top page in the planning documentation folder / wallet

Region:	see page header	State Forest OR County/parish	see page header
Management Area:	see page header	Compartment OR Portion, lot/DP, prop	see page header erty

Fick when added to set	Documentation		Comment	
1. 🗌	Data search results – flora and fauna			
2. 🗌	Data search results – indigenous cultural h	eritage		
3. 🗌	Data search results – non-indigenous cultu	ral heritage		
4. 🗌	Copy (if any) of the flora/fauna survey reporthe original survey data sheets)	ort(s) (Ecologist retains		
5. 🗌	Copy (if any) of the indigenous cultural he and original data	ritage survey report(s)		
6. 🗌	Copy (if any) of the non-indigenous cu report(s) and original data sheets	Itural heritage survey		
7. 🗌	Records of consultation with regulators, inc consent, concurrence, etc (eg individual s Act consent, concurrence from RLPB)			
8. 🗌	Records of consultation with lessees and/o	r permittees		
9. 🗌	Records of consultation with stakeholders	and the community		
10. 🗌	Copies of notifications sent (eg neighbours	, Lands)		
11. 🗌	Environmental impact assessment			
12. 🗌	Due diligence checklist (form 10.1)			
13. 🗌	Quality control checklist (form 10.2)			
14. 🗌	Operational plan with signed approval pag	es		
15. 🗌	The Distribution Control Sheet for the plan			
16. 🗌	The Amendment Control Sheet for the plan	ı		
17. 🗌	Copies of all revisions of and amendments	to the plan		
18. 🗌	Supervising Forest Officer's copy of the (form 4), incidental records (eg forms 5, 20 post-harvest notes (form 6), other notes/ar	, 22), briefing records,		
19. 🗌	Completed clearance certificate (form 7) –	only harvesting		
certify that:				
	ontains all documents associated with planr in the table above and is complete for interr			operation as
-	ant information from them has been transfer	·		nd
The Region	on's geodatabase has been updated for the	·	peration.	
Position	Si	gnature		Date
Comment				