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LOCALITY MAP Western Region - Harvest Plan



Management Area: CONDOBOLIN

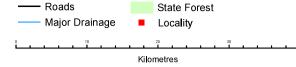
State Forest No: 440

Scale: 1:500,000

State Forest Name: CUMBINE

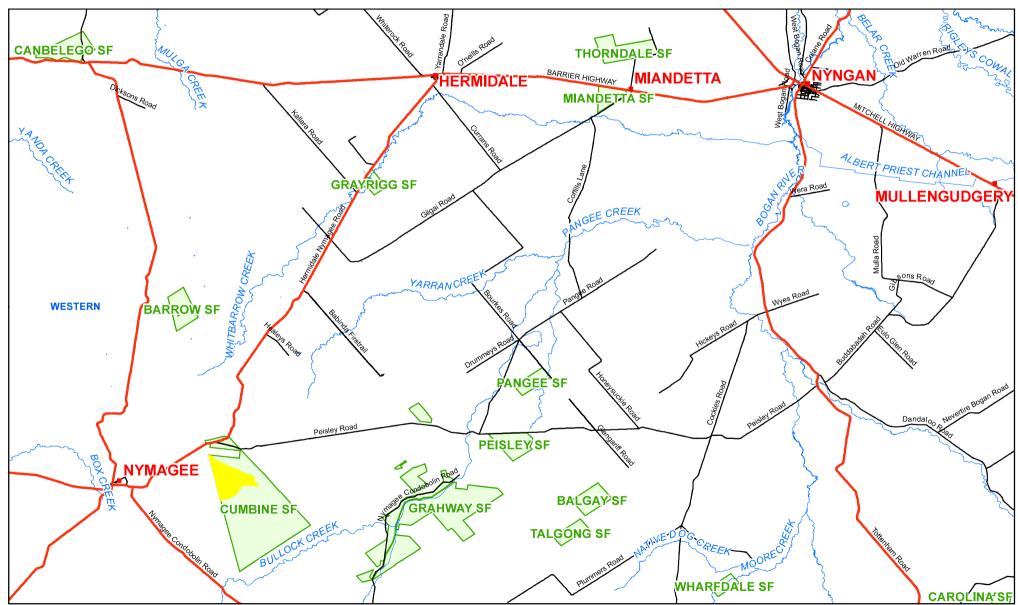
Compartment: 222

Compartment Area: 1,613 Ha



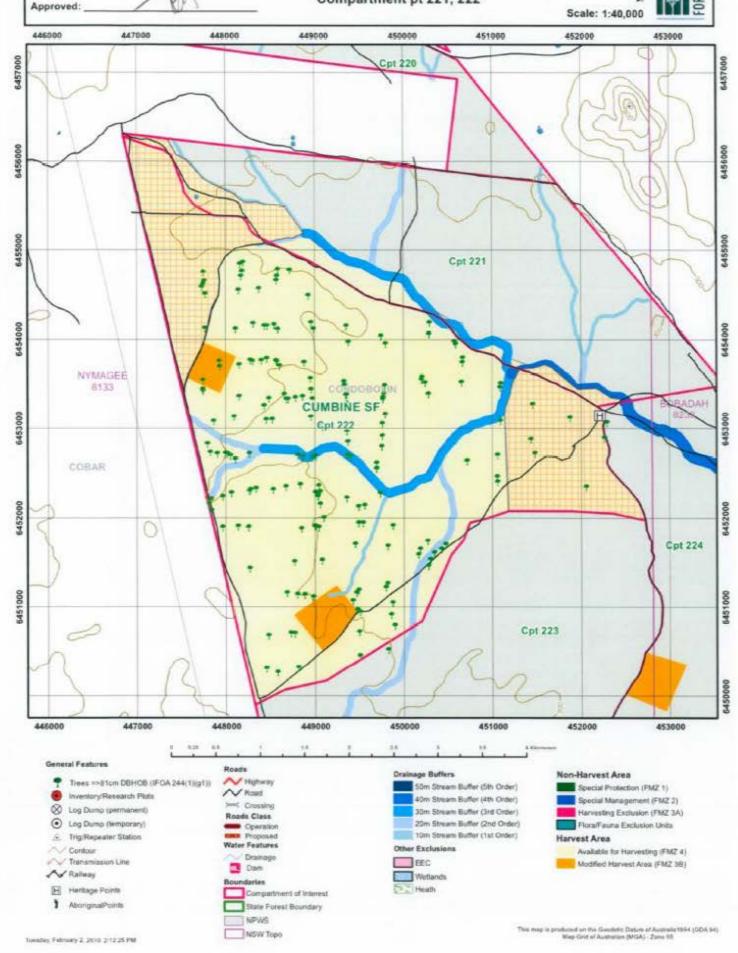
Compartment(s) of interest

Highway



HARVEST PLAN OPERATIONAL MAP Western Region - Harvest Plan WCc1117 Cumbine State Forest Compartment pt 221, 222 446000 447000 448000 450000 451000 Cpt 220

FORESTS



FORESTS NEW SOUTH WALES - WESTERN REGION

NATIVE FOREST HARVESTING PLAN No. WCc1117





Cumbine State Forest - Comp'ts pt 221, 222

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 Harvest Plan Conditions for Native Forest Operations in Western Region - South-Western Cypress apply to this operation. Prepared By: S Grallelis Endorsed By: Ross Irvine Approved By: Warwick Bratby Asst District Manager Environmental & Sesource Mgr Regional Manager Signature Signature Signature/ allely. Date 28/6/2012 Date 1/17/2012 Date Note: Approval includes the Harvest Plan Operational Map (HPOM) with the corresponding approval date displayed on the map, verifying final approved version. Locality and forest type maps are included for information only and do not form a part of this approval. PRE-OPERATIONAL BRIEFING (SUPERVISING FOREST OFFICER 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. I understand the requirements for supervision and operational control as explained to me by the Forest Manager or his/her delegate. SUPERVISING FOREST OFFICER: Signature: Date: PRE-OPERATIONAL BRIEFING (LICENSEE/CONTRACTOR ACKNOWLEDGMENT) I confirm that I have received a copy of this Harvest Plan and that: I understand the conditions of the Plan. I will inform all relevant people not present at this briefing, prior to them starting operations, of these aspects of the Plan, as explained to me by a Forests NSW officer. Signature: _______Date: ______Date: ______ Position: ____ Licence No:

Principal licensee/contractor/other (explain)

Description of Proposal

White cypress sawlogs will be harvested under regulation of the Integrated Forest Operations Approval for South-Western Cypress Region (SWC IFOA).

The operation will use 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.

Attachment 1: Site Safety Plan prescribes the safety requirements and Medical Emergency Evacuation Plan for this harvesting operation.

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	HTS Plan ID
Cumbine	Pt 221, 222	Western	Condobolin	3891

COMPARTMENT	Pt 221	222
Event ID	15054	14915
Gross Area (ha)	855	1,613
Net Harvest Area (ha)	123	1290
High Density Area (Y/N)	Υ	Υ
Estimated Yield Cypress	200t	2200-
Sawlog (m ³ or t)		2700t

Silviculture and Harvesting Prescriptions

There is no documented history of forest management in this compartment. Field inspections indicate that the mature cypress stands within compartment 222 have had minor timber stand improvement (ring-barking) in the 1960's and scattered attempts at non-commercial thinning (high stumps) of cypress in the late 1970's.

Regeneration has established with variable results, resulting in a range from thick stands of regeneration under mature pine to scattered regeneration among hardwood species.

The area of each silvicultural treatment must be mapped and recorded in the Postlogging information section of this plan.

Silvicultural Planning

This harvesting operation is a release operation to allow those areas showing good regeneration growth to develop and encourage growth in poorer regeneration areas by selectively removing part of the mature cypress over-storey, and thinning selected areas to promote forest development.

Once released, it may be up to 20 years before further thinning is required.

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. 2 for more detail.
Mature Cypress with adequate regeneration.	90%	Cmpt 222	Release cypress silviculture.
Mature Cypress without regeneration	10% NHA	Cmpt's 222, pt 221	Thinning silviculture

The white cypress silviculture guidelines in the <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v. 2</u> must be applied. "Thinning" and "Release" options will be applied to the area, being chosen on a patch by patch basis. "Release" <u>only</u> where there is clearly enough established regeneration. Otherwise, or if in doubt, "thin". There are no designated "wet weather" areas.

Only white cypress trees may be harvested. The trees that may be taken will be shown by tree marking as required in the <u>Standard Harvest Plan Conditions for Native Forest</u> <u>Operations in Western Region. – South-Western Cypress v. 2.</u>

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 hardwood, 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.

Special Conditions

Critical boundaries

The compartment's western boundary forms the boundary of the state forest. Northern and eastern boundaries follow internal roads or topographical features, whereas the southern boundary is indistinct within the forest. Where the compartment boundary cannot be distinctly identified, the harvest area boundary will revert to the nearest formed road or to boundary markings located by GPS survey, as identified by the SFO. Refer to the Operational map for more detail.

<u>Private Property</u> – The SFO is to ensure the western boundary of the compartment is clearly defined to ensure that harvesting does not occur on the adjacent private land.

National Park – nil.

Research / Inventory Plots

No permanent inventory or research plots are located in the compartments. There may be indications of temporary inventory plots, but these can be ignored.

Leases/OPs

The area is subject to grazing under Grazing Permits.

Infrastructure

Contractors are required to pay particular attention to:

- <u>Fences</u>. 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.

Transmission Lines/Cables/Pipelines

No electrical transmission lines are present within the compartment. 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 3B - WGhPgbwbox, w/cypress: occurs in compartment 222 (shown on HPOM). The objectives for the management of this area are to maintain persistence of large-crowned trees and promote the condition of grassland.

In this operation – mature cypress trees may be removed as per the <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v. 2.</u>

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

Cultural Heritage Conditions

An old shearing shed and an old dwelling are located within compartment 222. A 20m no-harvest zone must be applied around this site.

There are no other cultural heritage sites (Aboriginal or non-Aboriginal) known in this compartment. If a site that might be a cultural heritage site is found:

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

Flora and Fauna Conditions

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. 2</u>.

Mark-up Conditions

Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western</u> Region. – South-Western Cypress v. 2 for prescriptions.

Tree retention Conditions

Refer to <u>Treemarking Protocol for Native Forest Operations in Western Region.</u> – South-Western Cypress 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.

Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western</u> Region. – South-Western Cypress v. 2 for prescriptions.

Species Known or Likely to Occur

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

Contractors and supervisory staff must immediately report any sightings of Schedule 1 and 2 species to the Supervising Forester. The Harvesting Plan must then be amended to include additional prescriptions if necessary.

Fisheries Licence Conditions

Applicable Fisheries Licence conditions are detailed in the Brigalow – Nandewar IFOA. Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v. 2</u> for prescriptions.

Soil and Water Protection Conditions

Applicable Environmental Protection Licence conditions are detailed in the Brigalow – Nandewar IFOA. Refer to <u>Standard Harvest Plan Conditions for Native Forest</u> <u>Operations in Western Region. – South-Western Cypress v. 2</u> 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
1st order mapped drainage line or mapped drainage depression	10m Drainage Feature Protection Zone
2nd order mapped drainage line or mapped drainage depression	20m Drainage Feature Protection Zone
3rd order mapped drainage line or mapped drainage depression	30m Drainage Feature Protection Zone
4 th order mapped drainage line or mapped drainage depression	40m Drainage Feature Protection Zone
Dams	10m Feature Protection Zone

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 snig / extraction track drainage line crossings anticipated or approved for use on drainage features within this operation.

Road Works Conditions

There are no planned road works in the harvest area. All roads and tracks must comply with the <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region.</u> – <u>South-Western Cypress v. 2</u>.

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. 2</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. 2
- q Licence conditions issued by Forests NSW under the Forestry Act (1916).
- **q** Forest Practices Code, Part 2, Timber Harvesting In Native Forests (4th edition 1999).
- **q** Forest Practices Code, Part 4, Forest Roads and Fire Trails (1999).
- **q** Integrated Forestry Operations Approval issued under Part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended May 2003 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

•	0	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

^{*} GPS coordinates in MGA 1994 Zone:

^{**} 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.

Date (dd/mm/yy)	Authorisation given / hazard identified / instruction made / comments	Licensee/contractor acknowledgment
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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:
Date:
Licensee/Contractor
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
date:
Signature Name

HARVEST PLAN AMENDMENT RECORD

Amendment	Date	Amendment Details	Signature of person who
No.	Approved		amended this plan
1	/08/201	Insert declaration of compartments as 'high density areas' (IFOA clause 244A) in Area	
	2	Identification	
		Amend references to Standard Harvest Plan Conditions to 'v. 2.'	
_		Insert reference to 'Treemarking Protocol for LHTs' in Flora and Fauna Conditions.	
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:	
Position:	Incoming Supervising Forest Officer		
Cianatura		Data	
	Incoming Supervising Forest Officer	Date:	
_		Date:	
Position:	Incoming Supervising Forest Officer		
Signature:		Date:	
Position:	Incoming Supervising Forest Officer		
Signature:		Date:	
Position:	Incoming Supervising Forest Officer		

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	m GDA94 GA reference)	Action taken	Date IR form
(include type, number, etc.)	Easting	Northing		given to
	(6-digit)	Northing (7-digit)		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						•				

POSSIBLE NEXT HARVEST		Main product type	Anticipated volume				
	C = cypress $H = hardwood$	(put C or H in each relevant cell)	High	Medium	Low		
		High quality large sawlog					
		High quality small sawlog					
		Low quality sawlog					
		Fencing/posts					
		Vineyard posts (cypress)					
		Residue					
Code on map	Comment	Habitat trees / Non-merchantable					
	0 to 5 years to next harvest						
	5 to 10 years to next harvest						
	10 to 20 years to next harvest						
	20 to 30 years to next harvest						
	30 plus years to next harvest						
2. Sites of soil	erosion for attention.						
3. Boundary co	ompromised; neighbour issues resulti	ng from logging or haulage.					
		ng from logging or haulage. ne; roads) of appropriate staff (e.g. GIS	S, Planner	······································			
4. Operation m		pe; roads) of appropriate staff (e.g. GIS	S, Plannei	······································			
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4. Operation m	nap errors for attention (e.g. forest typ	pe; roads) of appropriate staff (e.g. GIS	S, Plannei	······································			

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

Date	Before or	Category	Component			
(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): retention / removal		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 PM review is required			Compartment or Parish/Portion or Lot/DP	See page header

<u>Amendment</u>: 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	Delivery to recipient			Amendment affected in plan copies							Plan recall				
			Date	Ву	,	1	,	2		}	L	1		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																

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	see page header	Compartment OR	see page header
Area:		Portion, lot/DP, prope	erty

Tick when added to set	Documentation		Comment	
1. 🗌	Data search results – flora and fauna			
2. 🗌	Data search results – indigenous cultura	al heritage		
3. 🗌	Data search results – non-indigenous c	ultural heritage		
4. 🗌	Copy (if any) of the flora/fauna survey rethe original survey data sheets)	eport(s) (Ecologist retains		
5. 🗌	Copy (if any) of the indigenous cultural and original data	heritage survey report(s)		
6. 🗌	Copy (if any) of the non-indigenous report(s) and original data sheets	cultural heritage survey		
7. 🗌	Records of consultation with regulationse, consent, concurrence, etc. (Native Veg Act consent, concurrence from the consent of	eg individual s120 TSL,		
8. 🗌	Records of consultation with lessees ar	d/or permittees		
9. 🗌	Records of consultation with stakeholde	rs and the community		
10. 🗌	Copies of notifications sent (eg neighbo	urs, 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 p	ages		
15. 🗌	The Distribution Control Sheet for the p	an		
16. 🗌	The Amendment Control Sheet for the p	olan		
17. 🗌	Copies of all revisions of and amendme	nts to the plan		
18. 🗌	Supervising Forest Officer's copy of the (form 4), incidental records (eg forms 5 post-harvest notes (form 6), other notes	20, 22), briefing records,		
19. 🗌	Completed clearance certificate (form 7) – only harvesting		
I certify that	:			
	contains all documents associated with p d in the table above and is complete for i			s operation as
	vant information from them has been tra	·	-	and
	gion's geodatabase has been updated for		operation.	
Position		Signature		Date
Comment				