



# LOCALITY MAP Western Region - Harvest Plan

Management Area: CONDOBOLIN

State Forest No: 77

Scale: 1:200,000

State Forest Name: Talgong

Compartment: 191, 192

Compartment Area: 666 ha

Highway

Roads

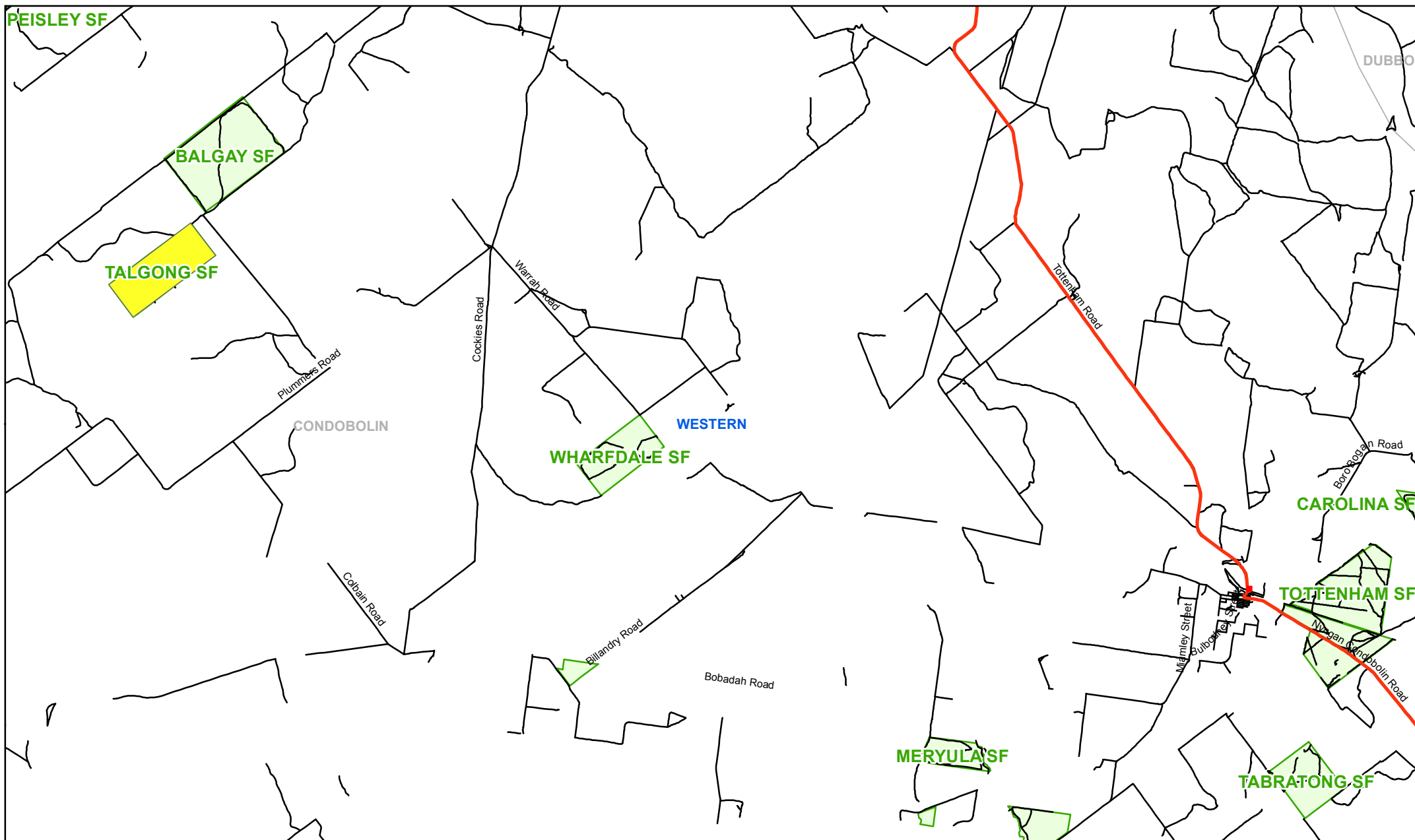
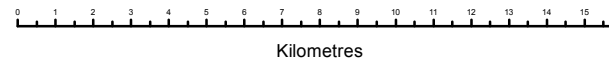
Major Drainage

Compartment(s) of interest

State Forest

Locality

Heritage Sites



# HARVEST PLAN OPERATIONAL MAP

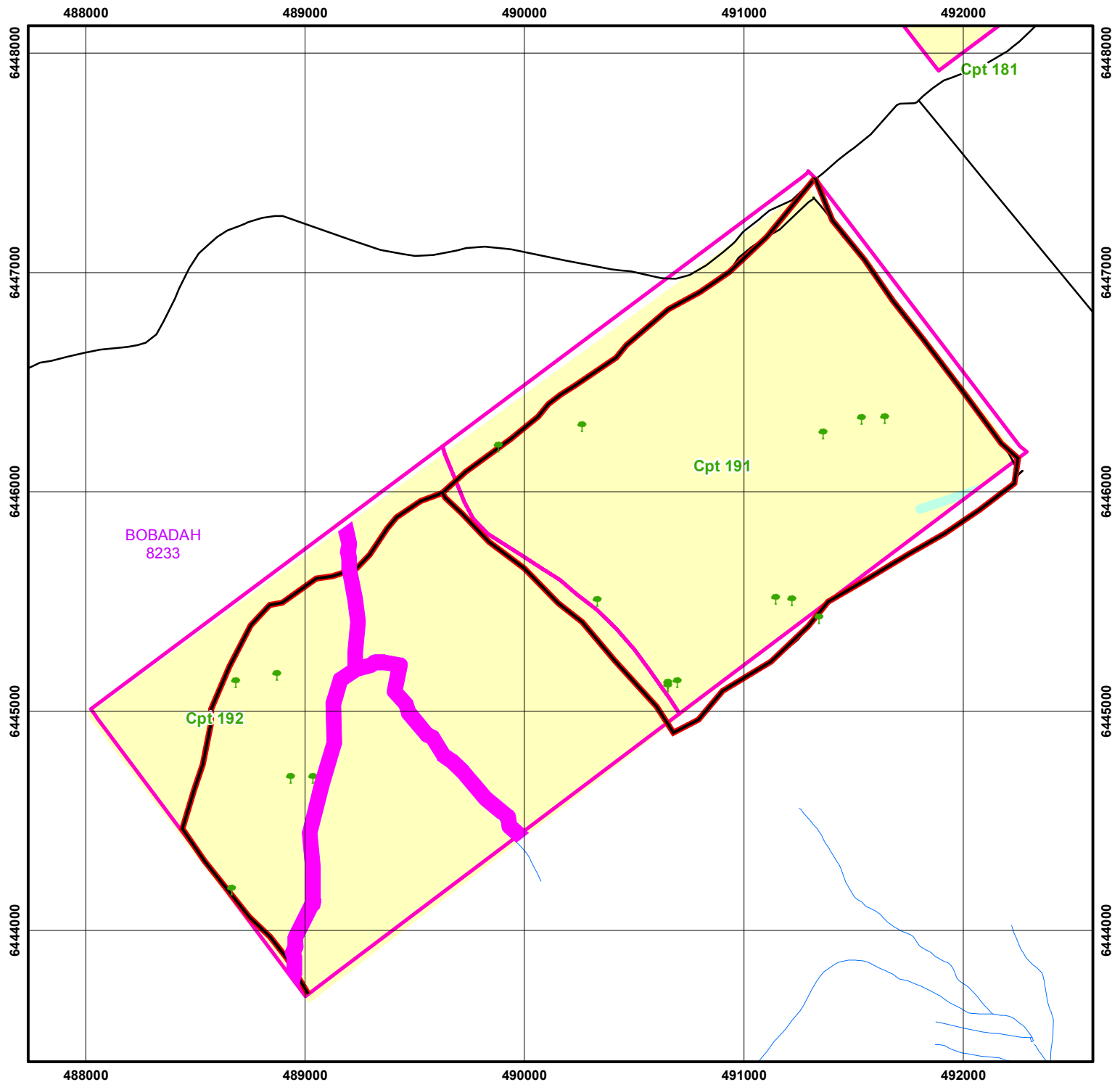
Western Region - Harvest Plan WCc1505

State Forest Name: Talgong

Compartment: 191, 192



Scale: 1:25,000



## General Features

- Tree (as per IFOA 244 (1)g1)
- Inventory/Research Plots
- Log Dump (permanent)
- Log Dump (temporary)
- Trig/Repeater Station
- Contour
- Transmission Line
- Railway

## Roads

- Highway
- Road
- Crossing

## Roads Class

- Operation
- Proposed

## Water Features

- Drainage
- Dam

## Boundaries

- Compartment of Interest
- State Forest Boundary
- NPWS
- NSW Topo

## Drainage Buffers

- 50m Stream Buffer (5th Order)
- 40m Stream Buffer (4th Order)
- 30m Stream Buffer (3rd Order)
- 20m Stream Buffer (2nd Order)
- 10m Stream Buffer (1st Order)

## Other Exclusions

- EEC
- Wetlands
- Heath

## Non-Harvest Area

- Special Protection (FMZ 1)
- Special Management (FMZ 2)
- Harvesting Exclusion (FMZ 3A)
- Flora/Fauna Exclusion Units

## Harvest Area

- Available for Harvesting (FMZ 4)
- Modified Harvest Area (FMZ 3B)
- Logging Deferred (IFOA clause 32A)

DISCLAIMER: This map is not guaranteed to be free from error or omission. Therefore, the State of New South Wales, Forestry Corporation of NSW and its employees disclaims liability for any act done or omission made on the information on the map and any consequences of such acts or omissions.

This map is produced on the Geodetic Datum of Australia 1994 (GDA 94) Map Grid of Australia (MGA) - Zone 55

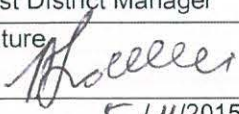
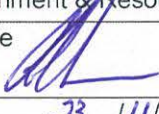
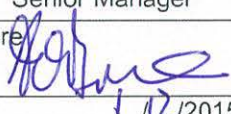
Date Print: 28/06/2016

**FORESTRY CORPORATION OF NSW - WESTERN REGION**
**NATIVE FOREST HARVESTING PLAN No. WCc1505**

Refer: FPC 2010/01

**Talgong State Forest - Compartments 191, 192**
**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 v.3 apply to this operation.

Prepared By: S Grallelis Asst District Manager	Endorsed By: Ross Irvine Environment & Resources Mgr	Approved By: Andrew O'Brien Senior Manager
Signature: 	Signature: 	Signature: 
Date: 5/11/2015	Date: 23/11/2015	Date: 1/12/2015

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 may be 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 Forestry Corporation officer.

Signature: \_\_\_\_\_ Name: \_\_\_\_\_ 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.

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
Talgong	191, 192	Western	Condobolin	10796

COMPARTMENT	191	192
Plan Compartment ID	22219	22220
Gross Area (ha)	332.6	333.7
Net Harvest Area (ha)	231.7	303.3
High Density Area (Y/N)	No	No
Estimated Yield Cypress Sawlog (m <sup>3</sup> or t)	300 cu.m	450 cu.m

## Silviculture and Harvesting Prescriptions

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

The mature cypress stands within compartments 191 and 192 were established during regeneration events in the 1890's. They have been brushcut and commercially thinned on several occasions with the last harvesting events being 1985/86 in cpt 191 and 1995 in cpt 192.

Regeneration has established as a result of this disturbance and created conditions suitable for release harvest over much of the forest. Forest health will also be improved with this operation, removing drought stress across the site.

Wildfires have always been a threat in this location, but the primary influences on stand condition has been windblow and drought.

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

## Silvicultural Planning

The 'release' operation is aimed at releasing established regeneration from competition with the mature overstorey. Once released, the stand will require thinning in the next 10-20 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 10-20 years.

### Harvesting Prescription

Stand type	% of net area	Area (refer to HPOM for details)	Treatment Refer to <i>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</i> for more detail.
Mature Cypress with adequate regeneration.	90%	Comp'ts 191, 192	<ul style="list-style-type: none"> <li>Release cypress silviculture.</li> </ul>
Mature Cypress without regeneration	10% NHA	Comp'ts 191, 192	<ul style="list-style-type: none"> <li>Thinning silviculture</li> </ul>

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 fences on all sides and a road on the northern side. Refer to the Operational map for more detail. Marking of the compartment boundary is not proposed.

Private Property – Access to this forest is through private land. Contact must be made with the owner before commencing operations, and gates must be left as found or by arrangement with the owner. (Mr Mike Milne, 'Shannonvale', 6893 3984 ah).

No access is permitted on the southern side of the forest, being a different property.

National Park – Not applicable.

### Research / Inventory Plots

There are no known current trial or permanent plot sites within the harvest area. However, there may be some old and recent temporary plots within the harvest area which, if found, should be ignored.

### Leases/OPs

The area is not covered by an Occupation Permit or Grazing Permit.

### 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.
- Fenced Compound. There is an animal compound around the dam in compartment 192. Harvesting will not be allowed within 10m of this compound, and no trees are to be felled over any of the fences.
- 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.
- Debris. 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. There are no known apiary sites, but if found a 20m buffer must be applied around each bee hive encountered.

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

There are no known electrical transmission lines present within 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 buffer exists along the drainage buffer mapped in Cpt 192. Refer to “Soil and Water Protection Conditions” section.

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. 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**

Stick nests of unknown species were recorded in the traverse. The SFO should watch out for these and any others and apply prescribed protection around them if found.

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

### **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.

These areas are not shown on the Operational Map.

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 known 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
2nd order mapped drainage line or mapped drainage depression	20m 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, snag / extraction track drainage line crossings anticipated or approved for use on drainage features within this operation.

However, if any are required then sufficient notice (at least 1 week) is required to enable soil samples to be taken for sediment testing and to support Schedule 3 approvals. Additionally, details are to be 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 must be attached 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 Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 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).
- ☐ 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.



## Supervising Forest Officer's Notes

[illegible]

**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

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Amendment No. & type			Date Prepared	Amendment Details	All Copies Amended	Signature
Number	Major	Minor				
1		X	13/07/2017	Extension of Operational Road along south east boundary to facilitate haulage.		
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: \_\_\_\_\_

Position: Incoming Supervising Forest Officer

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Position: Incoming Supervising Forest Officer

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Position: Incoming Supervising Forest Officer

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Position: Incoming Supervising Forest Officer

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Position: Incoming Supervising Forest Officer

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Position: Incoming Supervising Forest Officer

- IR form = incidental record form 5. ECO = Regional Ecologist

[illegible]

## 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 map	Area (ha) treated	REGEN QUALITY			REGEN DENSITY			COMMENTS
			Good	Fair	Poor	Dense	Fair	sparse	
THINNED	T1								
	T2								
RELEASED	R1								
	R2								
SALVAGE	S1								
	S2								
Not Harvested	NH1								
	NN2								
	NH3								

**POSSIBLE NEXT HARVEST**

C = cypress    H = hardwood

Code on map	Comment	Main product type (put C or H in each relevant cell)		Anticipated volume		
				High	Medium	Low
	<input type="checkbox"/> 0 to 5 years to next harvest	High quality large sawlog				
	<input type="checkbox"/> 5 to 10 years to next harvest	High quality small sawlog				
	<input type="checkbox"/> 10 to 20 years to next harvest	Low quality sawlog				
	<input type="checkbox"/> 20 to 30 years to next harvest	Fencing/posts				
	<input type="checkbox"/> 30 plus years to next harvest	Vineyard posts (cypress)				
		Residue				
		Habitat trees / Non-merchantable				

1. Noxious or environmental weed problems; high levels of feral animal use.

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2. Sites of soil erosion for attention.

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3. Boundary compromised; neighbour issues resulting from logging or haulage.

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4. Operation map errors for attention (e.g. forest type; roads) of appropriate staff (e.g. GIS, Planner)

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5. Any other comments – SUPERVISING FOREST OFFICER / FA / Forester

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

Date (and GPS grid ref optional)	Before or after harvest	Category	Component			
			All trees	White cypress	Ironbark	Other species
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / removal					
	<input type="checkbox"/> Before	merchantable				
	OR	pre-merch				
	<input type="checkbox"/> After	non-merch				
		total				
	trees marked for (circle correct one): retention / 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	Delivery to recipient			Amendment affected in plan copies										Plan recall	
		Method H = hand E = email M = mail	Date done	By (initials)	1		2		3		4		5		Date received	Date destroyed
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 Area:	see page header	Compartment OR Portion, lot/DP, property	see page header

Tick when added to set	Documentation	Comment
1. <input type="checkbox"/>	Data search results – flora and fauna	
2. <input type="checkbox"/>	Data search results – indigenous cultural heritage	
3. <input type="checkbox"/>	Data search results – non-indigenous cultural heritage	
4. <input type="checkbox"/>	Copy (if any) of the flora/fauna survey report(s) (Ecologist retains the original survey data sheets)	
5. <input type="checkbox"/>	Copy (if any) of the indigenous cultural heritage survey report(s) and original data	
6. <input type="checkbox"/>	Copy (if any) of the non-indigenous cultural heritage survey report(s) and original data sheets	
7. <input type="checkbox"/>	Records of consultation with regulators, including specific license, consent, concurrence, etc (eg individual s120 TSL, Native Veg Act consent, concurrence from RLPB)	
8. <input type="checkbox"/>	Records of consultation with lessees and/or permittees	
9. <input type="checkbox"/>	Records of consultation with stakeholders and the community	
10. <input type="checkbox"/>	Copies of notifications sent (eg neighbours, Lands)	
11. <input type="checkbox"/>	Environmental impact assessment	
12. <input type="checkbox"/>	Due diligence checklist (form 10.1)	
13. <input type="checkbox"/>	Quality control checklist (form 10.2)	
14. <input type="checkbox"/>	Operational plan with signed approval pages	
15. <input type="checkbox"/>	The Distribution Control Sheet for the plan	
16. <input type="checkbox"/>	The Amendment Control Sheet for the plan	
17. <input type="checkbox"/>	Copies of all revisions of and amendments to the plan	
18. <input type="checkbox"/>	Supervising Forest Officer's copy of the plan, with diary notes (form 4), incidental records (eg forms 5, 20, 22), briefing records, post-harvest notes (form 6), other notes/annotations	
19. <input type="checkbox"/>	Completed clearance certificate (form 7) – only harvesting	

**I certify that:**

- ☐ This file contains all documents associated with planning, implementation and recording for this operation as identified in the table above and is complete for internal/external audit purposes;
- ☐ The relevant information from them has been transferred to the compartment history data set; *and*
- ☐ The Region's geodatabase has been updated for the area completed in this operation.

Position	Signature	Date
Comment		