

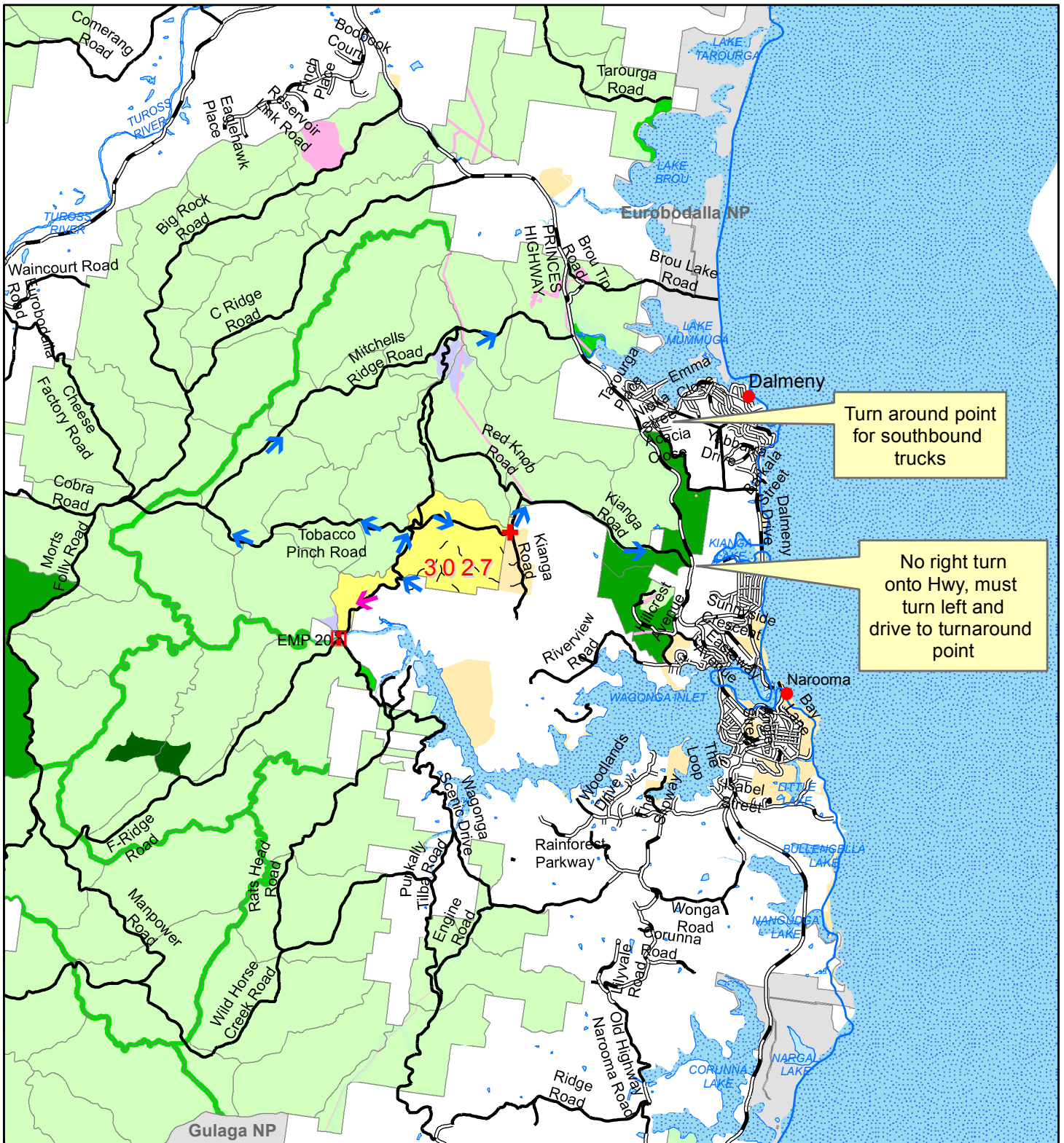
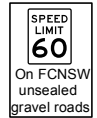
LOCALITY MAP

Compartment 3027

State Forest: Bodalla No:606

SOUTH COAST IFOA NAROOMA MANAGEMENT AREA

Scale: 1:100,000



● Towns & Localities	■ State Forest	■ National Parks	+ Emergency Meeting Point
 Sealed Road	■ Planning Unit	■ Formal Reserve	 Helicopter Landing Site
 Minor Forest Road	■ Vacant Crown Land	■ Informal Reserve	➔ Evacuation Route
➔ Major Rivers/Coastline	■ Hardwood Plantation	■ Marine Park	➔ Haulage Route
	■ Freehold	■ Water	

Prepared By: Kate Halton

Version: 1

Forest Type Map

Compartment: 3027

State Forest: BODALLA No: 606

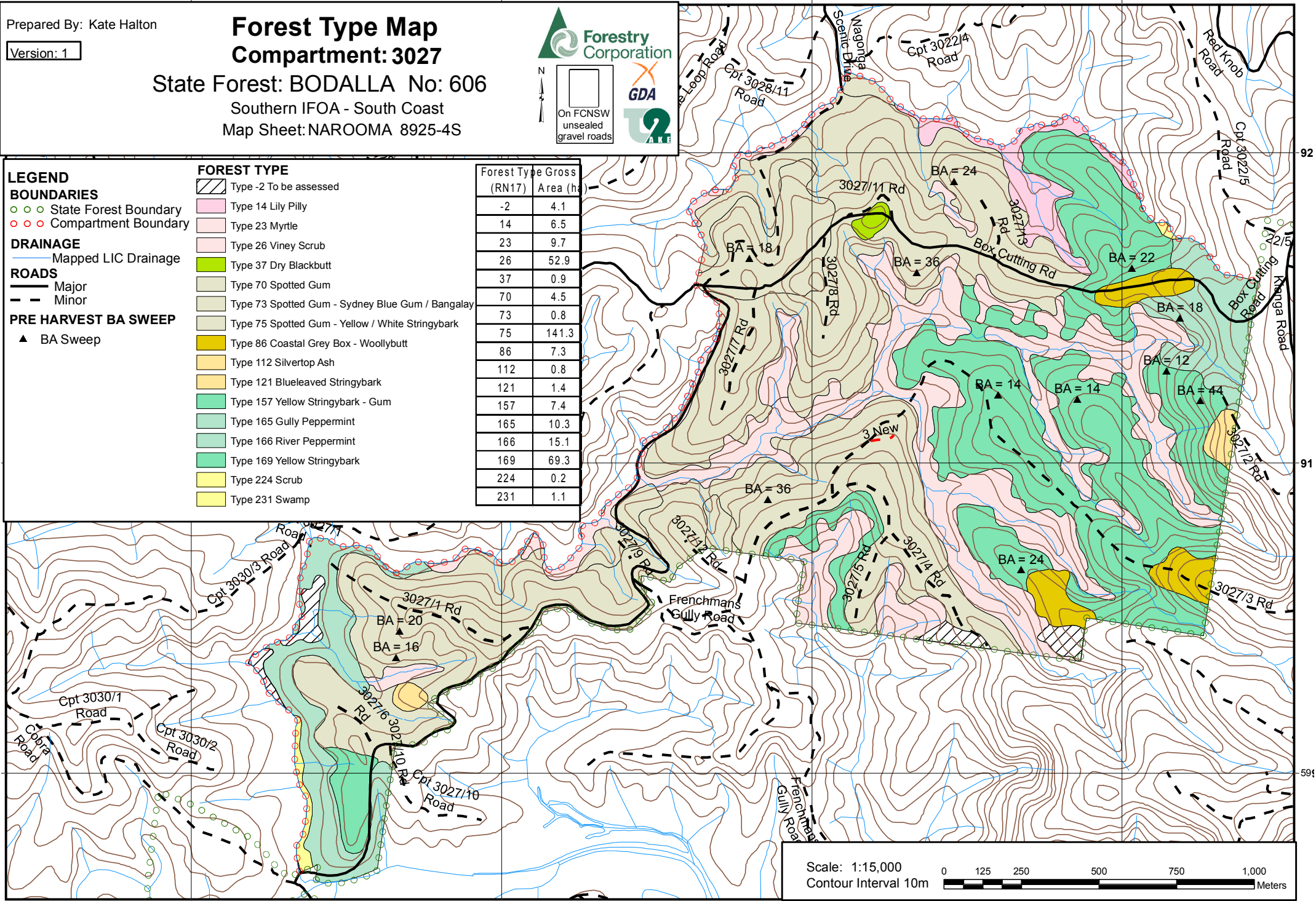
Southern IFOA - South Coast
Map Sheet: NAROOMA 8925-4S



- LEGEND**
- BOUNDARIES**
- ○ ○ State Forest Boundary
 - ○ ○ Compartment Boundary
- DRAINAGE**
- Mapped LIC Drainage
- ROADS**
- Major
 - - - Minor
- PRE HARVEST BA SWEEP**
- ▲ BA Sweep

- FOREST TYPE**
- ▨ Type -2 To be assessed
 - Type 14 Lilly Pilly
 - Type 23 Myrtle
 - Type 26 Viney Scrub
 - Type 37 Dry Blackbutt
 - Type 70 Spotted Gum
 - Type 73 Spotted Gum - Sydney Blue Gum / Bangalay
 - Type 75 Spotted Gum - Yellow / White Stringybark
 - Type 86 Coastal Grey Box - Woollybutt
 - Type 112 Silvertop Ash
 - Type 121 Blueleaved Stringybark
 - Type 157 Yellow Stringybark - Gum
 - Type 165 Gully Peppermint
 - Type 166 River Peppermint
 - Type 169 Yellow Stringybark
 - Type 224 Scrub
 - Type 231 Swamp

Forest Type (RN17)	Gross Area (ha)
-2	4.1
14	6.5
23	9.7
26	52.9
37	0.9
70	4.5
73	0.8
75	141.3
86	7.3
112	0.8
121	1.4
157	7.4
165	10.3
166	15.1
169	69.3
224	0.2
231	1.1



Scale: 1:15,000
Contour Interval 10m



HARDWOOD FORESTS- SOUTHERN IFOA SOUTH COAST HARVESTING PLAN

Bodalla State Forest - Compartment 3027

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 Harvest Plan Standard Conditions for Hardwood Forest Operations in South Coast apply to this operation.

Prepared By:	Kate Halton	Approved By:	Lee Blessington
Harvest Planner		Planning Supervisor	
Signature	Kate Halton	Signature	Lee Blessington
Date	26/10/15	Date	26/10/15

Note: Approval includes the Harvest Plan Operational Map (HPOM) with the corresponding approval date displayed on the map, verifying final approved version. Other maps included with this plan are Locality, Forest Type and Roding.

Description of Proposal

Harvesting of Hardwood forest

Harvesting of Hardwood forest, using Single Tree Selection, Silviculture subject to the Southern IFOA requirements will be undertaken within this planning unit. **Timber harvesting and road construction will not be licensed under the EPL.**

The primary product of the harvesting is high quality large sawlogs (quota logs), small high quality sawlogs, veneer logs, girders, poles & piles where timber markets are available. Parts of felled logs that do not meet high quality log specifications are segregated and graded into other classifications such as salvage sawlogs, pulp logs & miscellaneous timbers e.g. split & round posts, firewood, mining timbers & craftwood. The availability of miscellaneous timbers depends mainly on forest types, log defectiveness & market conditions at the time of harvesting.

Clause 22 – Integrated Forestry Operations Approval (IFOA) Consideration

All relevant factors have been reviewed taking into account the volume and monetary value of each forest product to supply Term Agreement Holders. The harvesting operation also complies with Clause 22 of the IFOA.

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

Attachment 2: Roding plan prescribes roding requirements for this harvesting operation.

Abbreviations used in this plan

FT = Forest Technician, HC= Harvesting Coordinator, PtS= Protection Supervisor, HS = Harvesting Supervisor, RC = Roading Coordinator, IFOA = Integrated Forestry Operations Approval.

Area Identification and Yield Estimates

State Forest	Compartment/s	IFOA Region	Management Area	Certification
Bodalla	3027	Southern	Narooma	AS4708:2007 ISO 14001

	Cpt 3027
Plan Compartment ID	22067
Gross Area (ha)	334.9
Net Harvestable Area (ha)	163
Harvest Area (ha)	160
Poles, Piles, Veneer & Girders	0m ³
Quota Logs (HQL)	1141m ³
High Quality Small	251m ³
Salvage	365m ³
Pulp E1	1141t
Firewood/Misc	380t

Note: The yield estimates in the table above are derived from the Plan of Operations.

Slope Classes (percent of harvest area)

	Cpt 3027
Slope Class	% of harvest area
0-20°	96.1
20-25 °	3.7
25-30 °	0.3



ATTACHMENT 1: SITE SAFETY PLAN

Worksite Information	
Is this Declared Hunting Area: No	Comments:
Have Exclusion Zone signs been erected or checked prior to starting work daily.	NA (Closed to hunting)
Comments:	
Description of Work to be undertaken on site: - Refer to description of proposal above.	
Site Supervisor	
Name:	Contact number:
Communication	
Radio channel number	VHF: UHF
Other (e.g. hand signals):	
Traffic management (describe) e.g. Signage, Road closure, Traffic control	
<p>This plan identifies haulage from the compartment will be either:</p> <ol style="list-style-type: none"> 1. North on Wagonga Scenic Drive (Eurobodalla Shire Council Owned), then left onto Box Cutting Road, Tobacco Pinch Road and then right onto Mitchells Ridge Road (all FCNSW owned) to the Princess Hwy. The sight distance at intersection of Mitchells Ridge Road and Princes Hwy is greater than 250m on both approaches. Additional signage in accordance with a Traffic Control Plan is not required. 2. North on Wagonga Scenic Drive (Eurobodalla Shire Council Owned), then right onto Box Cutting Road (FCNSW owned) then right on Kianga Road (FCNSW owned road, becoming Eurobodalla Shire Council Owned) to the Princess Hwy. <p>At the intersection of Kianga Road (Eurobodalla Shire Council Owned at this point) and Princes Hwy the sight distance is greater than 250m on both approaches. However due to the long downhill run (and speed gain) for vehicles travelling south on Princes Hwy, trucks are not permitted to turn right onto the Princes Hwy from Kianga Road. All southbound trucks must first turn left and travel to a safe turnaround point off the Dalmeny Road.</p> <p>The sight distance at the intersection of Box Cutting Road (Forestry Corporation Owned) and Kianga Road (Eurobodalla Shire Council Owned, 100km/hr maximum speed limit) is 200m on the southern approach and less than 100m on the northern approach. Traffic Control Plan "TCP_195_Kianga_BoxCuttingRd" must be implemented during haulage.</p> <p>The sight distance at the intersections of Wagonga Scenic Drive (Eurobodalla Shire Council Owned, 100 km/hr maximum speed limit) with 3027/6 Road, Dump 3, 3027/1 Road, 3027/9 Road and Frenchman's Gully Road (all Forestry Corporation Owned roads where they intersected Wagonga Scenic Drive) are less than 100m on both approaches. Traffic Control Plan "TCP_195_WagongaScenicDrive" must be implemented during haulage.</p> <p>When harvesting within 2 tree lengths or operating a log dump less than 10m from Eurobodalla Shire Council Owned Road Wagonga Scenic Drive or Forestry Corporation Owned Box Cutting Road, these roads must be temporarily closed in accordance with "TCP_78_57_WagongaScenicBoxCutting_Cpt3027". Additionally this TCP must be in place when using walk over technique to transfer felled and processed timber from the eastern side of Wagonga Scenic Drive to the nearest dump on the western side of Wagonga Scenic Drive.</p> <p>Permission has been granted from Eurobodalla Shire Council to implement these traffic control plans.</p>	

<p>Dust, noise and school bus routes Dust and noise – Where log haulage routes pass close to rural housing along natural surface/gravel roads dust and noise must be minimised to the greatest extent practicable. Trucks should reduce speed, restrict use to daylight hours and minimise the use of engine brakes through these areas.</p>			
<p>Name of on-site safety first aider/s</p>			
<p>Location of first aid kit</p>			
<p> </p>			
SITE HAZARD & RISK ASSESSMENT NO.	CONTROL	WHO	IMPLEMENTED
1. Vehicle collision at adjoining roads of various traffic levels	Warning signs at FCNSW intersections, road closure on FCNSW roads. Implement Traffic Control plans (where specified in this harvest plan). No right turn onto Princes Hwy from intersection of Kianga Road and Princes Hwy. 60km/hr speed limit on all State Forest gravel roads unless otherwise signposted. Compliance with FCNSW lights on policy.		
2. Cliff lines & rocky very steep terrain	Operators to assess work site within two tree lengths to identify immediate hazards. Communicate to other operators and mark sites.		
3. Mine shafts/quarries	Assess snig track routes and tree felling paths prior to operating. Identify and mark site accordingly. Note three sites of known mine shafts occur within the compartment (shown on HPOM): 1. Four caved in mines in close proximity depth approximately 1m, north of Box Cutting Road to the east of dump 18. 2. Two sites contained within 100m Subterranean Roost Protection exclusions. One is horizontal the other vertical. A potential mine shaft area has also been identified and is shown on HPOM.		
4. Hazardous or dead trees	Refer to FCNSW WHS procedure 4.26. Assess area within two tree lengths of work site. Assess risk, mark any Distinctly Dangerous Trees with the symbol Ø & if necessary remove hazard or move work site. Use machinery to assist with hazard removal if possible Contractor is responsible for implementing control strategies during harvesting.		
5. Overhead hazards associated with dumps	Refer to FCNSW WHS procedure 4.26. Assess overhead hazard within two tree lengths of the dump. Assess risk, & if necessary remove hazard or relocate dump site. Contractor is responsible for implementing control strategies during harvesting.		
6. Dust from passing vehicles along dirt haulage routes	Restrict speed to minimise dust generation, slow down when passing vehicles. Turn on driving and hazard lights to increase visibility.		
7.			

- **All** visitors, contractors and employees **must** be fully **inducted** onto the worksite by the workplace supervisor e.g. the Principal Contractor or the Forestry Corporation supervisor. This must be recorded on the attached

induction sheet.

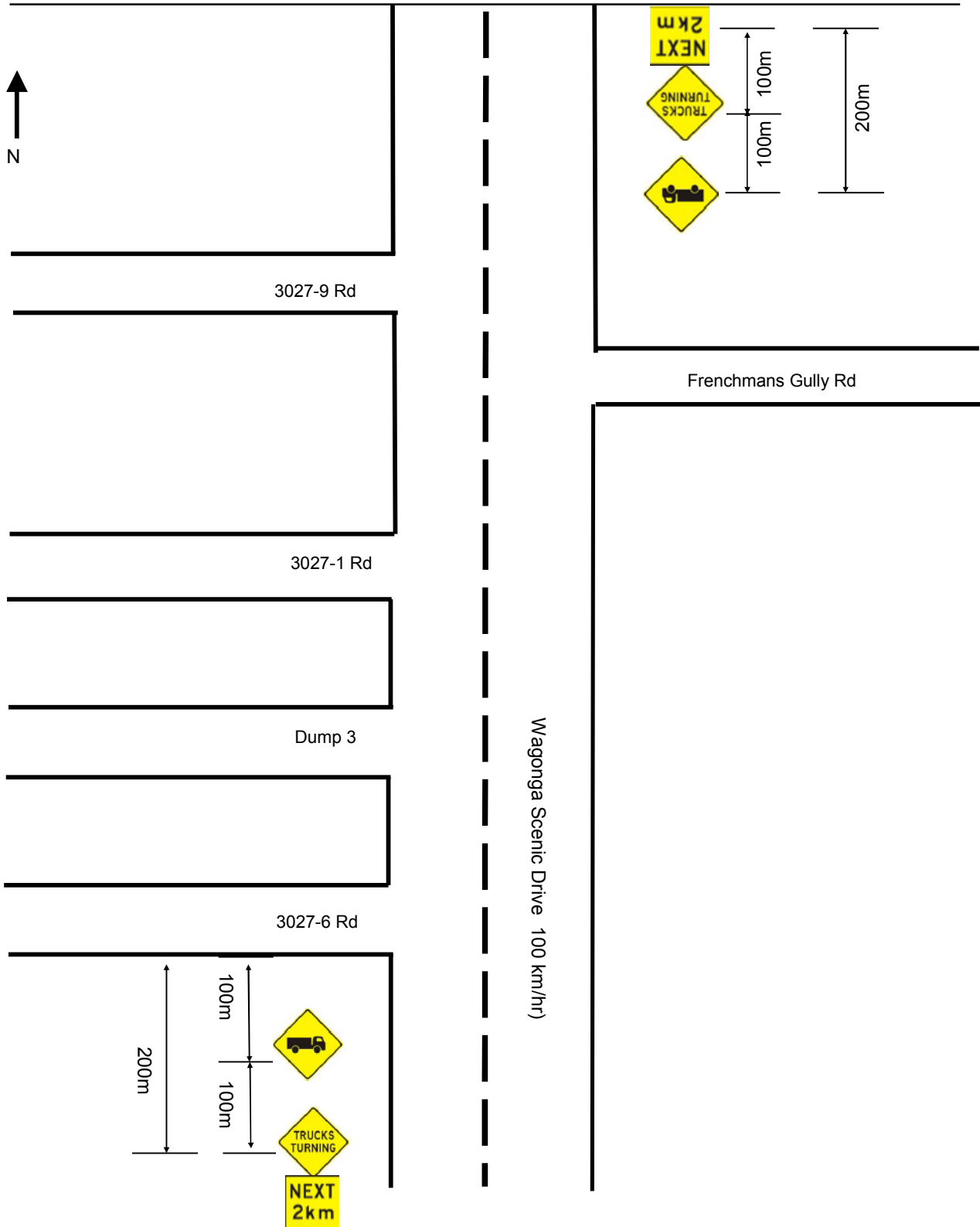
- Relevant **Safe Work Procedures** are available and understood for the type of work to be undertaken.
- A **Risk and Hazard Assessment Worksheet** must be completed if site specific hazards are identified that are not covered by a **Safe Work Procedure**. The top (pink sheet) is to be attached to this site safety plan.
- Operators in training must be supervised by the site supervisor.
- All appropriate Personal Protective Equipment (PPE) must be worn on the worksite at all times



MEDICAL EMERGENCY EVACUATION PLAN

Nearest reliable mobile phone reception (describe location)			
Next G Network: Good	GSM: N/A	Satellite: N/A	
GPS Lat/Long: 36°10'57"S/150°03'59" E	MGA: 236195E 5991800N	Datum: GDA 94	Zone: 56
Location description: Box Cutting Road (phone service is reliable throughout the majority of the cpt)			
Emergency meeting point for ambulance / police (refer to attached locality map)			
GPS Lat/Long: 36°11'6" S/150°04'52" E	MGA: 237528 E 5991592 N	Datum: GDA 94	Zone: 56
Location description: Intersection of Kianga Road and Box Cutting Road.			
Helicopter landing place (refer to attached locality map)			
GPS Lat/Long: 36°12'14" S 150°02'42" E			
Location description: EMP 20-Intersection of F-Ridge Road and Wagonga Scenic Road.			
Procedures to obtain ambulance assistance			
<ol style="list-style-type: none"> Dial 000 If there is no mobile coverage, dial 112 (which will work on any mobile phone system). If no response on 112: <ul style="list-style-type: none"> use a radio link (TARA, be discrete with personal information) move to an area with mobile coverage find a landline use another network (e.g. a contractor's VHF radio) 		Contact nearest Forestry Corporation office on: Channel: 236 Telephone: 1300 880 548 Give details of the situation and ask for a 000 call to be placed.	
000 operator question:		Response:	
1. Police, Fire, Ambulance?		NSW Ambulance,	
2. Suburb?		State Forest name: Bodalla Nearest town or locality: Narooma Nearest ambulance station: Narooma	
3. Address?		Box Cutting Road	
4. Nearest road junction/cross street?		Box Cutting Road/Kianga Road	
5. Local government area?		Eurobodalla	
6. Nature of the problem?		Describe the accident, number and condition of casualties	
7. Where is the accident?		Refer to safety meeting point above	
Directions to navigate from nearest ambulance station to the emergency meeting point. From Narooma, travel 4.4km north on Princes Hwy and turn left onto Kianga Road. Travel a further 4.2km to Box Cutting Road intersection.			
8. 4WD ambulance required N		CB radio channel to use:	
9. Injuries?		Give detailed information about the condition of the casualty (do not mention names over radio system)	
10. Your name and call back number:			

**Forestry Corporation TCP_195_Wagonga Scenic Drive /Cpt 3027
 Intersection of Wagonga Scenic Drive (Eurobodalla Shire Council Road) with
 Frenchmans Gully Rd, 3027-1 Rd, 3027-6 Rd, 3027-9 Rd and dump3 (FCNSW Roads)
 Modified from RTA Traffic Control at Work Site TCP 195)
 Non-signposted gravel road assumed speed limit 100km/hr**

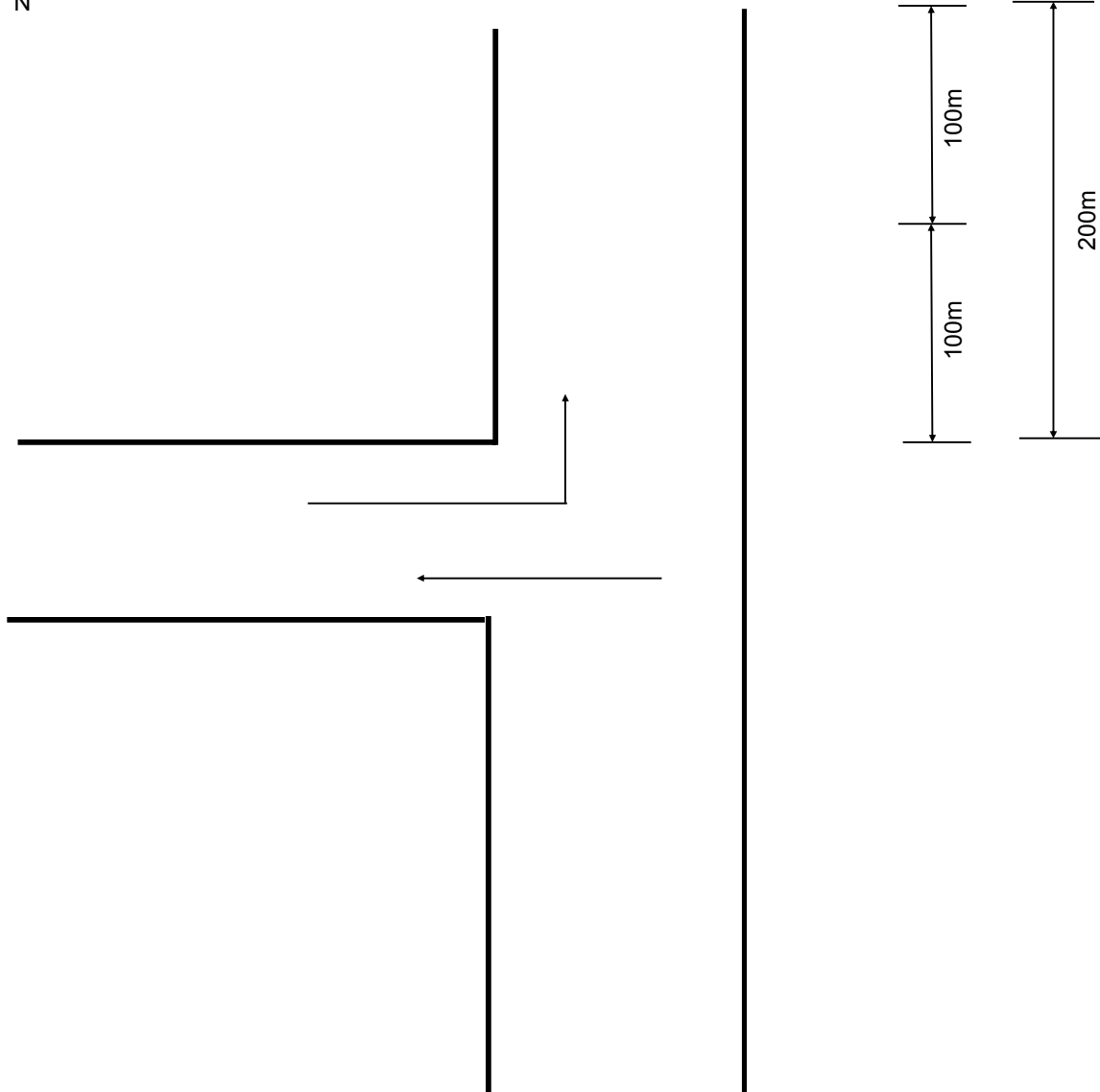


Notes: Log Haulage - Intersection of Wagonga Scenic Drive (100km/hr) with Dump 3, Frenchmans Gully Rd, 3027-1 Rd, 3027-6 Rd and 3027-9 Rd. Sight distance restricted to <200m on both approaches all intersections. Repeater Truck signs not required every 500m as ADT <300.

LONG TERM USE
 ADT < 300 <20 Truck Movements, Sight Distance Restricted
 Prepared by Kate Halton, Red Card Certificate No. 5192055074 on 5/8/2015

**Forestry Corporation TCP_195_Kianga Rd/Box Cutting Rd:
Intersection of Kianga Rd (Eurobodalla Shire Council) with Box Cutting
Rd (FCNSW Road)**

**Modified from RTA Traffic Control at Work Site (TCP 195)
Non-signposted gravel road assumed speed limit 100km/hr**



1. Log Haulage - Intersection of Kianga Road (100km/hr) with Box Cutting Road Sight distance restricted to <200m on northern approach to this intersection.

LONG TERM USE
ADT < 1500, <20 Truck Movements, Sight Distance Restricted
Prepared by Kate Halton, Red Card Certificate No. 5192055074 on 5/08/2015

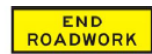
Forestry Corporation NSW (FCNSW) Traffic Control Plan 78 & 57: Harvesting within 2 Tree Lengths of Wagonga Scenic Drive (Eurobodalla Shire Council Rd) and Box Cutting Rd (FCNW Rd) (modified from RTA Traffic Control at Work Site TCP 78 & 57)
Speed limit not posted, assumed maximum 100km/hr

5

Work Site: Forest Harvesting within 2 Tree Lengths of Box Cutting Road OR Wagonga Scenic Drive



Box Cutting Road OR Wagonga Scenic Drive



T2-16



R4-212

100m

Work Site: Forest Harvesting within 2 Tree Lengths of Box Cutting Road OR Wagonga Scenic Drive

2 3 4



T1-34



R4-212



R4-212

100m



T1-18



T1-5



T1-28



G9-79

300m



Repeater RA-212 sign every 500m

Max. 2km

Notes:

1. Each stoppage less than 5 minutes.
2. Traffic controllers to stop traffic for duration of work and then direct traffic past work area, once tree falling has ceased and any debris has been cleared from road.
3. Traffic controllers and tree faller to maintain radio contact so that no tree felling is occurring while traffic is let through.
4. Traffic controller must have sight distance to oncoming traffic of at least 150m.
5. Traffic control plan must be mirrored for traffic approaching from the opposite direction.
6. If worksite is kept less than 500m long, repeater RA-212 (60 Road Work) signs are not required.
8. Ensure dumps or other road intersections are not within the traffic control area, unless they are closed off with a road closure barricade.

FREQUENTLY CHANGING WORK AREA
 2 LANE/2 WAY
 ADT < 3000

Prepared by Kate Halton, Red Card Certificate No. 5192055074 on 05/08/2015

Silviculture and Harvesting Prescriptions
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Year	1949	1662	1984	1996	1997	2002	2005
TSI	√	√	√	X	X	X	√
HR Burning	X	X	X	X	√	√	X
Wildfires	X	X	X	X	X	X	X
Logging m ³	0	0	770	700	0	3000	0

√ - applies, X – not applicable

Compartment	Resource Unit	No. of Sweeps	BA Average (m ² /ha)	BA Range (m ² /ha)
3027	1&2	13	23	12-44

Silvicultural Planning

Single Tree Selection

The STS tract (160 ha) is a predominantly mature forest and will be harvested under a heavy and medium single tree selection (STS) regime. The objective within the 160 ha harvest area for this operation (resource units 1 and 2) is to remove 45% and 35% of the basal area to create canopy openings for regeneration, whilst retaining and minimising damage to young regenerating stems, seed trees, habitat and recruitment trees.

It is envisaged that the next harvesting operation in this compartment would be on average 30 years time.

The STS tract for IFOA purposes includes the harvest area/resource units 1 and 2 of 3027 as indicated on the HPOM.

Single Tree Selection (STS) must remove no more than 45% of the basal area (BA), while retaining a minimum BA of 10m² per hectare within the tract.

Resource Unit (Refer to HPOM for detail)	Species Composition	Stand Structure and Condition
1 & 2	Spotted gum, Blackbutt, Ironbark, Monkey Gum, Woollybutt, Yellow Stringybark, White Stringybark, Blue-leaved String bark, Sydney Peppermint and Silvertop ash.	Ridge tops and upper slopes are not fully stocked and are comprised of even aged stands of mature and over mature trees remaining from last operation. Mid and lower slopes are fully stocked with even aged mature to overmature stands which have little future value growth potential.

Harvesting Prescription

Resource Unit (Refer to HPOM for detail)	% of Harvest Area	Silvicultural Treatment
1	80%	<p>STS heavy:</p> <ul style="list-style-type: none"> • Retain and protect from harvesting/fire damage: <ul style="list-style-type: none"> -poles/advanced growth (<40cm DBHOB) with good form and vigour, -habitat and recruitment trees as per TSL, • Retained trees should be evenly spaced throughout the resource unit. • Ensure no more than 45% of the BA within the resource unit is removed, while retaining a minimum BA of 10m² per hectare within the tract. • All other products should be removed markets permitting. If this objective cannot be achieved the following options should be considered: <ul style="list-style-type: none"> -reject tree felling (HC must first obtain approval from HS), -defer harvesting until ideal market conditions prevail, -consider harvesting under a light or medium STS regime <p>Regeneration Promotion: Some of the moist gullies are dominated with vine which is encroaching up the ridges and will most likely inhibit regeneration after harvest if left untreated. The FT/HC must identify such areas and ensure that adequate seed trees are retained in these areas (and target trees containing vine for removal). Utilise harvesting machinery to disturb the soil, to create a seedbed for regeneration and inhibit further vine spread.</p>
2	20%	<p>STS medium (visual protection):</p> <ul style="list-style-type: none"> • Only remove trees containing high quality large sawlog or pole products. • Retain and protect from fire/harvesting damage: <ul style="list-style-type: none"> -poles/advanced growth (<40cm DBHOB) with good form and vigour, -habitat and recruitment trees as per TSL, -retain additional trees between dumps and Box Cutting Road and Wagonga Scenic Drive, -retain additional dominant and co dominant trees of good form and vigour to ensure the total BA removed across the resource unit is no more than 35%. -dump size must be as small as practicable. All dump debris must be removed and spread evenly through the harvest area. Dumps must be reshaped to natural surface on completion. <p>Retained trees should be evenly spaced throughout the resource unit and efforts made to ensure a continuous canopy is maintained with no large gaps. Trees must not be felled across the walking track or car park. Debris must not be left within 20m of walking track or car park.</p>

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

Special Requirements

Noxious Weeds/Disease/Pests Hygiene Requirements

Compartment 3027 is within Eurobodalla Shire Council which is a designated red zone for Myrtle Rust. In order to prevent the spread of Myrtle Rust all harvesting machinery, equipment and vehicles heading west from Eurobodalla Shire Council or south into Victoria must be inspected for vegetation containing Myrtle Rust. If present, the vegetation must be removed from the harvesting machinery, equipment or vehicle prior to leaving the compartment.

Permanent Growth and Research Plots

Any inventory plots located during the harvesting operation are to be treated the same as the surrounding area.

Marine Park

Compartment 3027 is adjacent to Marine Park Habitat Protection Zone for Wagonga Inlet. Harvesting activities and post log burning are not permitted in Marine Park tenure. The protection measures covered under Southern IFOA-South Coast (and relevant TSL, EPL and Fisheries Licence) are adequate. No further prescriptions are required.

Rocky Terrain

Rocky terrain occurs within the net planned area. All rocky terrain shown on the HPOM was assessed at the planning stage and is unlikely to meet the definition of a rocky outcrop or cliff. FT/HC will continue to conduct on the ground mark-up and searches and report back to Planner/Field Ecologist any feature requiring further investigation.

Road Use

Haulage: Eurobodalla Shire Council Owned/Maintained Wagonga Scenic Drive, (north of dump 2) may be used for haulage. Otherwise within compartment 3027 and Private Property Lot 92 only roads that are shown on the HPOM as EPL standard may be used for haulage.

Snigging: Snigging across or along Wagonga Scenic Drive, Box Cutting Road, 3027/3 (within Lot 92) and 3027/12 (within Lot 92) is not permitted.

For the narrow strip of harvest area between private property Lot 92 and Wagonga Scenic Drive, there are no dumps on the eastern side of the road. Any logs which are harvested in this area must be extracted to dumps 2, 3 4 or 6, using techniques which do not damage the road pavement and minimise damage to cut and fill batters.

For the harvest area bound by Box Cutting Rainforest walk and Box Cutting Road, there are no dumps on the southern side of the road. Any logs which are harvested in this area must be extracted to dump 18, using techniques which do not damage the road pavement and minimise damage to cut and fill batters. For example laying slash over a designated crossing point or directional falling the across the road. This must be carried out while road is temporarily closed in accordance with “TCP78_57_WagongaScenicBoxCutting_Cpt3027”. Any damage to cut and fill batters or road pavement must be rehabilitated.

Vacant Crown Land

Vacant Crown Land occurs adjacent to the eastern boundary of the compartment as indicated on the HPOM. Department of Lands has been notified of the scheduled harvesting and post-harvest burning. No harvest disturbance is permitted on Vacant Crown Land.

Private Property

Private property occurs adjacent to the southern boundary of the compartment, as indicated on the HPOM. Private property owners have been notified of the scheduled harvesting and post-harvest burning. The table below lists neighbours who adjoin Compartment 3027:

- No harvest disturbance is permitted on private property.
- Harvesting debris must not be left within five metres of the boundary fence lines.
- Any damage to fences must be repaired by the contractor.
- Access roads must be maintained free of debris and in a trafficable state.

Permit to Enter

Occupation Permits

Apiary

4 apiary sites provided in the table below are located within the planning unit.

Name	Site Number	Contact number	Pre burn notification complete?

- The HC must provide the apiary permittees with at least two weeks advance notice when bee boxes need to be removed or relocated.

Forest Management Zoning

FMZ 3B-Special Prescriptions and FMZ 4- General Management (normal harvesting prescriptions apply) occur within the compartment. Refer to HPOM for more detail.

FMZ 3B– A visual protection zone exists 50 metres wide parallel to Box Cutting Road and Wagonga Scenic Drive. A visual protection zone also occurs around the Box

Cutting Rainforest Walk. Harvesting is permitted in this zone under modified conditions detailed in the harvesting prescription section of this harvest plan. HS must contact Batemans Bay Partnerships coordinator 2 weeks prior to the commencement of harvesting in compartment 3027 who will then ensure closure of Rainforest Walk is appropriately communicated to the general public.

IFOA Required Approval of Forestry Activities

All Rare Non-Commercial Forest Ecosystems require prior OEH approval and Stream and Rainforest Exclusion Zones require prior Planning Supervisor approval before forest harvesting related activities (eg: road or snig track construction & reopening) can be undertaken. It is the responsibility of the HC to identify any exclusion areas which will need to be crossed during harvesting. The HC must then contact the Planner to obtain the necessary approval.

Cultural Heritage

Flora and Fauna

To simplify the HPOM for this compartment only threatened species which trigger a prescription under the TSL such as feed trees, nests and species which trigger exclusion zones, have been shown.

Species adequately covered by general prescriptions:

The following species have been recorded in or around the compartments and are adequately covered by the general prescriptions. No further protection measures are required for these species:

Common Bent-wing Bat (*Miniopterus schreibersii*), Eastern False Pipistrelle (*Falsistrellus tasmaniensis*), Gang-gang Cockatoo (*Callocephalon fimbriatum*), Glossy Black-Cockatoo (*Calyptorhynchus lathami*), Grey-headed Flying Fox (*Pteropus poliocephalus*), Little Lorikeet (*Glossopsitta pusilla*), Sooty Owl (*Tyto tenebricosa*), Square-tailed Kite (*Lophoictinia isura*) and Turquoise Parrot (*Neophema pulchella*).

Tree Retention

Zone	Hollow bearing Trees/ha	Recruitment Trees /ha	Protection of Retained Trees	Dead Standing Trees (only if safe)	Significant Food Resource*
Regrowth	Up to 5	1 for every tree retained under 5.6d	√	√	√
TSL condition	5.6d	5.6e	5.6h	5.6f	5.6g

√ - Condition applies

*6 Glossy black cockatoo feed trees and 1 Yellow Bellied Glider sap feed tree, occurs within compartment 3027 at locations shown in the table below.

Species	Feature	Zone	GDA Easting	GDA Northing	Comments
Glossy Black-Cockatoo	Feed tree	56	236040	5991972	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	56	236037	5991990	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	56	236004	5991982	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	56	236001	5992017	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	56	236027	5991963	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	56	235062	5990540	Marked with orange tape
Yellow Bellied Glider	Feed tree	56	234759	5990148	Not marked

General exclusion zones

General exclusions as listed below are shown on the HPOM.

Feature/Condition	TSL cond'n	Occurs within Planning Unit
Rainforest	5.4	Has been assessed as a risk that Cool Temperate and Depauperate (Dry) occur in the field. May require further investigation#. The rainforest shown on the HPOM has been modified during planning. The FT must field verify the extent and mark exclusions during mark-up. The areas assessed as Depauperate (Dry) do not require 20m exclusion. These areas must be noted appropriately in the FT/HC notes section of the plan.
Rare Non Commercial Forest Ecosystems	5.5	Yes
Riparian Protection Zones	5.7	Yes Based on spatially corrected LIC drainage.
Ridge & Headwater Habitat	5.8	Yes (40m either side & 20m either side)
Wetlands	5.9	Has been assessed & is unlikely to occur in the field. May require further investigation#.
Heath and Scrub	5.10	Has been assessed as a risk that it may occur in the field. May require further investigation#. Area shown on HPOM has been verified at point locations, however boundary has been estimated from remote sensing data. FT to assess and mark boundary.
Rocky Outcrops and Cliffs	5.11	Has been assessed as a risk that it may occur in the field. May require further investigation#. Area shown on HPOM has been verified at point locations, however boundary has been estimated from remote sensing data. FT to assess and mark boundary.
Endangered Ecological Community	NA	Has been assessed & is unlikely to occur in the field. May require further investigation#. Harvesting, harvesting machinery and

		post harvest burning must be excluded from all areas of EEC.
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#FT/HC will continue to conduct on the ground mark-up & searches and report back to foresters/ecologists any features requiring further investigation.

General Threatened Flora and Fauna Prescriptions

Feature	Records in 3027	Licence conditions under the TSC Act
Threatened Frog General Protection Measures	No	5.12
Bird Nest and Roost Site Protection	No	5.13
Tree Bat Roost Protection	No	5.14.1
Subterranean Roost Protection	Yes*	5.14.2
Protection of flying-fox Camps	No	5.14.3
Burning	Net planned area	5.16
Ground Habitat Protection	Net planned area	5.17

*50m and 100m exclusion around two mineshafts south of Box Cutting Road to the west of the Rainforest Walk. The mineshafts north of Box Cutting Road do not attract an exclusion under condition 5.14.2.

Species & Site-Specific Threatened Flora and Fauna Prescriptions

The following species have been recorded within or nearby the area and the associated prescriptions must be implemented:

Threatened species and habitat features within trigger distance	Records in 3027	Licence conditions under the TSC Act or relevant Site-specific prescription
Giant Burrowing Frog <i>Heleioporus australiacus</i>	Yes	6.2 (exclusion zone and modified harvesting prescription)
Powerful Owl <i>Ninox strenua</i> , Masked Owl <i>Tyto novaehollandie</i> .	Yes	6.4 <i>Owl Landscape Exclusion Zones occur in compartment 3027.</i>
Squirrel Glider <i>Petaurus norfolcensis</i>	Yes	6.12
Yellow-bellied Glider <i>Petaurus australis</i>	Yes	6.13 (one feed tree occurs within cpt)
Golden-tipped Bat <i>Kerivoula papuensis</i>	Yes	6.14

Threatened species and habitat features within trigger distance	Records in 3027	Licence conditions under the TSC Act or relevant Site-specific prescription
Eastern Pygmy Possum <i>Cercartetus nanus</i>	Yes	Apply Site Specific Threatened Species Licence Prescription: For the record north of Box Cutting Road a 100m exclusion. For the record near dump 8, exclusion as mapped. Both exclusions are hard. No Specified Forestry Activities (including post-log burning) are permitted within these exclusion zones. For the remainder of the harvest area within cpt 3027 ground habitat (especially of Proteaceous and Myrtaceous species such as <i>Banksia</i> , <i>Eucalyptus</i> , <i>Grevillia</i> and <i>Xanthorrhoea</i>) must be protected from Specified Forestry Activities to the greatest extent practical.

Fisheries Licence Conditions

There are no known records of threatened fish species or class 1 or 2 aquatic habitat relevant to this operation. The conditions of the fisheries licence are not triggered for this operation.

Soils and Water Protection

Refer to EPL Booklet & Standard Plan Conditions

Spatially Corrected LIC Drainage

Spatially corrected LIC drainage has been built using LiDAR derived drainage in compartment 3027. Protection zones and filter strips have been rebuilt based on spatially correct LIC drainage and an additional median stream bed width included for each stream order. The FT is to mark all unmapped drainage lines and all first and higher order stream protection zones.

Site-specific EPL Conditions

Elements	Conditions
Unmapped Drainage Lines	EPL does not apply: refer to drainage feature protection below.
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	2
Dispersible Soils	No
Seasonality Harvesting Exclusions	No
Seasonality Burning Exclusions	No
Log Dumps	Refer relevant conditions for IHL
Snig Tracks	Refer relevant conditions for IHL
Roads	See Schedule 5 of EPL Booklet

Slope limits for harvesting	Refer to Schedule 4B.3 of EPL
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Drainage Feature Protection

Filter strips (EPL), Protection Zones (EPL), Operational Zones (EPL), Protection Zones -hard (TSL) and Protection Zones -soft (TSL) must be retained along all drainage lines, prescribed streams and watercourses within the net planned area of the compartments at minimum widths as stated in the Table below.

Table 1: Minimum filter strip, protection zone and operational zone widths for mapped and unmapped drainage lines, prescribed streams and watercourses in hardwood forests in Inherent Hazard Level 1 & 2 (metres – measured along the ground surface)

Stream Order	EPL Filter Strip TSL Protection (hard)	EPL Protection Zone TSL Protection* (soft)	EPL Operational Zone	Drainage Feature Protection: FT/HC marking instruction
Unmapped	N/A#	N/A#	N/A#	5m (Orange)
1st order	5	5	10	10m (Pink)
2nd order	5	15	10	20m (Pink)
3 rd order	5	25	10	30m (Pink)
4 th order +	5	45	10	50m (Pink)

for this operation FCNSW has chosen to harvest this area without EPL coverage. All EPL conditions continue to apply **except** for the rules applying to filter strips, protection zones and operational zones of the **unmapped drainage lines**. Refer to Best Management Practices for unmapped drainage lines in the standard conditions. Harvesting of unmapped drainage lines, **MUST NOT** occur in unmapped drainage lines which are running or holding water. It is the responsibility of the HC to inspect each unmapped drainage line prior to harvesting it, to determine if it is running or holding water.

Log Dump Location

23 log dumps are indicated on the HPOM. Field location of log dumps must utilise the most level site available consistent with the location indicated on the HPOM.

Inherent hazard level 2 Conditions 26, 27, 28, 30, 31 and 33 of Schedule 4 of the EPL must apply.

Ensure all log dumps are more than 10m from Box Cutting Road and Wagonga Scenic Drive.

Ensure there are sufficient retained trees between the edge of road and dump for all dumps within the FMZ 3B harvest area along Box Cutting Road and Wagonga Scenic Drive.

Drainage Feature Crossings

Four snig track crossings (S1, S2, S3 and S4) and no road crossings are approved for use on drainage features. (Refer to HPOM). Snig track crossing details are provided below:

Crossing Name & Coordinates	Crossing details	Required Works
<p>S1-Existing natural causeway crossing use as causeway or upgrade to temporary log bridge. Easting 236323 Northing 5991198</p>	<p>Mapped 3rd order drainage line, occurs as a drainage line in the field. Not class 1 or 2 Fisheries Licence aquatic habitat. Fish Passage Class 2: Moderate Fish habitat.</p>	<p>HC to assess the crossing prior to use and if the soil in the crossing is not saturated the crossing may be used as a natural causeway crossing (no side cut permitted). On completion of use the crossing must be rehabilitated as per EPL specifications and timeframes. If crossing is expected to be saturated during use install a temporary Log Bridge (5 m span, minimum height 0.5m). Ensure sill logs are adequate to contain spoil from snagging. Lay geotextile in bed and banks and remove spoil from filter strip during construction phase and removal of bridge phase. Minimise disturbance and clearing. Seed and mulch disturbed areas on completion. For either type of crossing: Install trafficable rollovers on completion of use within timeframes and spacing's specified in EPL. Due to box cut on northern approach which limits options for effective rollovers, HC must instruct contractor on where to install rollovers and monitor these rollovers for effectiveness.</p>
<p>S2-New temporary log bridge Easting 236704 Northing 5991310</p>	<p>Mapped 2nd order drainage line, occurs as a drainage line in the field. Not class 1 or 2 Fisheries Licence aquatic habitat. Fish Passage Class 3: Minimal fish habitat.</p>	<p>Install Temporary Log Bridge (3 m span, minimum height 0.4m). May construct a K2 bridge or use large bed logs to increase height of bridge (as to minimise the side cut on either approach to the crossing). Ensure sill logs are adequate to contain spoil from snagging. Lay geotextile in bed and banks and remove spoil from filter strip during construction phase and removal of bridge phase. Minimise disturbance and clearing. Seed and mulch disturbed areas on completion. Install crossbanks on completion of use within timeframes and spacing's specified in EPL. Approval from EPA has been granted to construct this crossing and a single snig track either side of the crossing within exclusion for Golden Tipped Bat and Owl Landscape in accordance with the following conditions:</p> <ul style="list-style-type: none"> • The HC must consult with contractor to design a snig track which has least possible disturbance within these exclusions. • A single snig track side cut is permitted

		<p>however the length of side cut must be minimised (or eliminated if possible) with snig tracks at right angles to the crossing heading straight up the hill being the preferred option.</p> <ul style="list-style-type: none"> • The maximum width of the snig track must be less than 8m (this includes cut and fill batters). • No hollow bearing trees or owl roost may be removed, damaged or destroyed. • The location of the crossing may vary 5m upstream or 10m downstream if this will result in a snig track with less or no side cut. The location of the snig track must not be varied more than these distances due to Golden Tipped Bat roost records which occur up upstream and the 3rd order drainage line/owl landscape exclusion which occurs downstream. EPA has not granted approval to disturb either of these.
<p>S3 New Natural Causeway Crossing Easting 236541 Northing 5990609</p>	<p>Mapped 2nd order drainage line, occurs as a drainage line in the field. Not class 1 or 2 Fisheries Licence aquatic habitat. Fish Passage Class 3: Minimal fish habitat.</p>	<p>Construct natural causeway crossing as per EPL. Construction should minimise disturbance and clearing and be at right angles to the flow unless and angled approach results in reduced disturbance. Install cross banks/rollovers on completion of use within timeframes and spacing's specified in EPL. Seed and mulch disturbed areas on completion. Approval from EPA has been granted to construct this crossing and a single snig track either side of the crossing within exclusion for Golden Tipped Bat and Owl Landscape and Rainforest in accordance with the following conditions:</p> <ul style="list-style-type: none"> • The HC must consult with contractor to design a snig track which has least possible disturbance within these exclusions. • A single snig track side cut is permitted however the length of side cut must be minimised (or eliminated if possible) with snig tracks at right angles to the crossing heading straight up the hill being the preferred option. • The maximum width of the snig track must be less than 8m (this includes cut and fill batters). • No hollow bearing trees or owl roost may be removed, damaged or destroyed.
<p>S4 New Natural</p>	<p>Mapped 2nd order</p>	<p>Construct natural causeway crossing as per</p>

<p>Causeway Crossing Easting 237385 Northing 5991257</p>	<p>drainage line, occurs as a drainage line in the field. Not class 1 or 2 Fisheries Licence aquatic habitat. Fish Passage Class 3: Minimal fish habitat.</p>	<p>EPL (no sidecut). Install cross banks/rollovers on completion of use within timeframes and spacing's specified in EPL. Minimise disturbance and clearing. Seed and mulch disturbed areas on completion. Approval from EPA has been granted to construct this crossing and a single snig track either side of the crossing within exclusion for Golden Tipped Bat and Owl Landscape in accordance with the following conditions:</p> <ul style="list-style-type: none"> • The HC must consult with contractor to design a snig track which has least possible disturbance within these exclusions. • No side cut within the exclusion zones is permitted. The snig crossing must be at right angles to the flow. • The maximum width of the snig track must be less than 5m. • No hollow bearing trees or owl roost may be removed, damaged or destroyed.
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Mass Movement

Compartment 3027 is not in an area identified as having a potential for mass movement. No specific prescriptions relating to mass movement/snigging are required.

Suitability of existing log dams and gully stuffers

There are no known log dams or gully stuffers on snig track or road crossings in the compartments.

Condition 47 of Schedule 4 of the EPL must apply.

Post Log Burning Control Lines

To assist the post log burning crews prevent fire from entering areas to be excluded from burning, control line construction must be undertaken concurrently with harvesting. Where possible snig tracks patterns should be designed to double as control lines. Control lines must be located as close as reasonably practical to the feature to be excluded from burning. The HC must assess the areas harvested, snig track network and existing roads to determine if there are sufficient control lines in place and where required instruct the contractor to construct additional mineral earth control lines to supplement these. The HC must record instances where it was not possible to construct a suitable control line close to the feature to be excluded and recommend harvest areas which should be excluded from the post log burning operation due to inadequate control lines.

The table below lists critical boundaries in compartment 3027. Where possible design snig track patterns so they double as bare earth containment lines as close as possible to these boundaries. Where this is not practical, it is NOT necessary to construct a bare

earth break along boundary of the exclusion; the practice of no direct ignition will be followed.

Critical boundary	Completed Yes /No
Exclusions for Rainforest, Rare & Non Commercial Forest Ecosystems, Owl Landscape, Squirrel Glider, Ridge and Headwater Habitat, Excluded Forest, Rock, Heath, Golden Tipped Bat and Subterranean Roost Protection (Bats).	
Exclusion for Eastern pygmy possum (the exclusion north of Box Cutting Road only).	

The table below lists critical boundaries in compartment. Where possible design snig track patterns so they double as bare earth containment lines as close as possible to these boundaries. Where this is not practical, HC must instruct contractor to construct a bare earth break (drained as per EPL snig track conditions) as close as possible to the critical boundary.

Critical boundary	Completed Yes /No
Private Property	
Vacant Crown Land (except for ridge accessed by S4)	
Exclusion for Eastern Pygmy Possum (only exclusion in the southern end of the compartment).	
Exclusion for Giant Burrowing Frog (except for ridge accessed by S4).	
To the east of the 80m width ridge and headwater exclusion heading north-south from the exclusion to Box Cutting Road.	

Pre-Operational Briefing

I acknowledge that I have received a copy of the Harvesting Plan for Compartment 3027 in Bodalla State Forest and that I have been briefed on the conditions of the Plan and understand the supervision and operational control requirements as explained to me by the HS or his/her delegate.

Position		Name	Signature	Date

Post Harvest Mapping Features Confirmation Checklist

Feature	Planning Updates	Reason (Error/New)	GIS update tool completed?	Harvesting Updates	Comments
Soil Regolith	No				
Mapped Drainage	Yes	Corrected	Yes		
Rainforest	Yes	Corrected	Yes		
Rocky outcrops	Yes	New	Yes		
Wetlands	No				
Cultural Heritage	No				
Existing Roads	Yes	Error	Yes		
New Roads	Yes	New	Yes		
Heath	Yes	New	Yes		
Powerlines etc	No				
Other (state what it is)					

Clearance Certificate

COMPARTMENTS: 3027, Bodalla STATE FOREST

ToHC

I request approval for me to move my logging crew and all associated machinery from the above-mentioned area to the next compartment in accordance with Section 3.5 of the Forest Practices Code.

I certify that:

- (a) all permanent roads, trails and mitre drains have been cleared of harvesting debris;
- (b) butt damage to retained trees has been kept to acceptable limits;
- (c) all trees marked for removal have been felled;
- (d) utilisation limits have been satisfactorily met;
- (e) stump heights conform to requirements;
- (f) all hanging trees have been felled and brought down;
- (g) all log dumpsites have been satisfactorily restored as required;
- (h) harvesting debris is not accumulated around retained trees;
- (i) all accumulated litter has been disposed of properly;
- (j) all filter and buffer strip requirements have been complied with;
- (k) all snig track, extraction track and temporary logging road drainage has been installed satisfactorily and other required rehabilitation work has been completed;
- (l) all necessary repairs to damaged roads, signs, fences and other structures have been carried out.
- (m) _____ **(insert quantity) rubber flaps have been recovered in a satisfactory condition and reported to Roading Coordinator for collection.**
- (n) all machinery, equipment and vehicles have been checked and are free of noxious weeds, diseases and pests.

I believe that I have met all my obligations under the conditions of the Contractors Licence, the EPL and TSL which apply to the compartment just completed, as stated in this Harvesting Plan.

Signature.....Name.....Date

Contractor

As a result of inspections of the logging operations made in accordance with this Harvesting Plan, I am satisfied that, to the best of my knowledge, the contractor responsible for this harvesting operation has satisfactorily completed all work and approval is given for her/him to remove her/his machinery and equipment and leave the area/commence operations in another compartment.

This clearance does not release the contractor from any obligation to undertake any remedial work if subsequent deficiencies are shown to result from inadequate practices during the harvesting operation, which are found during any inspections of the area made within 12 months of the date of this post-harvesting inspection.

Last inspection was made on(Date)

Signed(Date).....

HC

Post Logging Information

Record any circumstances of significance relating to the harvesting of this compartment. Please draw or include any annotations on the attached operation scale map.

Summary of silvicultural treatment

Treatment type	Area (ha) subject to treatment (HC estimate)	Number of AGS gaps created	Comments
Australian Group Selection			
Single Tree Selection			
Thinning/Spacing			
Post Harvest Silviculture			

Actual area harvested (record on attached HPOM) Give reasons for harvestable areas that were not harvested (eg. Too steep, defective timber). Make reference to map.

Post Logging Basal Area sweeps

Sample point	GPS (GDA 94E)	GPS (GDA 94N)	Pre-harvest (B) BA m ² /ha	Post-harvest(A) BA m ² /ha	Difference (D) (B – A) m ² /ha	% BA removed D/B x100	Comments
1	234555	5990183	16				
2	234567	5990268	20				
3	236570	5990466	24				
4	236234	5991423	36				
5	236497	5991028	14				
6	237082	5991278	18				
7	236751	5991014	14				
8	236355	5991717	24				
9	237039	5991106	12				
10	237148	5991010	44				
11	235695	5991470	18				
12	235754	5990692	36				
13	236927	5991439	22				
14							
15							
16							
17							
18							
19							
20							
21							
Total Averages			23				

Comply with maximum STS BA removal of 45% or Thinning BA removal of 60% Y/N

Possible next cut (tick appropriate boxes)

Main product type	Anticipated volume		
	H	M	L
Girders			
Veneer			
Poles/piles			
Quota			
Smalls/Thinnings			
Salvage			
Pulpwood/chipwood			

Time to next harvest	
0 to 5 years	
5 to 10 years	
10 to 20 years	
20 to 30 years	
30 plus years	

ATTACHMENT 2	ROADING PLAN
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Summary of Roading Requirements

Feature	Details	Works Required
Existing roads to be used (FCNSW).	47015m/12	Yes
Existing roads to be used (Private Property).	630m/2	Yes
New roads to be constructed	80/1	Yes
Existing crossings used	0	NA
New crossings to be constructed	0	NA
Length of road >10°	110m	Yes
Borrow pits and gravel pits	0	NA
Mass movement prescriptions apply	No	NA
Dispersible soil conditions apply	No	NA
Seasonality provisions apply	No	NA

Note: Maintenance works not completed by Roading Coordinator must be recorded and passed onto the HC for completion during harvesting and documentation.

The start and finish dates of all maintenance and construction must be recorded on the individual roading sheets along with other relevant changes or explanations.

All rubber flaps on minor forest roads must be removed and replaced with trafficable rollover banks on completion of operation.

For all roads covered by this plan the following works are required (except for Box Cutting Road):

- Grade and reshape pavement
- Roadside Clearing
- Where the plan states install appropriate drainage it is up to the RC to determine appropriate drain type (RU, mitre, spoon or natural undulations in topography) and spacing to EPL standard. This has not been assessed at the planning stage.

CHECKLIST OF WORKS REQUIRED ON ROADS & CROSSINGS

Road/Crossing Name	Works Required	Date Started	Date finished	Signature
Frenchman's Gully Road FCNSW Section(35m) Eurobodalla Shire Council Section (80m)	Drainage not required due to grade and length of road. RC/HC Comments:			
Box Cutting Road (1900m)	Install 5 new mitres and 1 new pipe (shown on roading map and marked in field). RC/HC Comments:			
3027/1 Road (400m)	Install appropriate drainage. RC/HC Comments:			

<p>3027/3 Road (570m) FCNSW Section Private Property Section (450m)</p>	<p>Both sections: Install appropriate drainage. FCNSW Section: See new road construction section for realignment. Private Property section install gravel or lower grade(12 degrees for 50m, uphill empty), shown on roading map. RC/HC Comments:</p>			
<p>3027/4 Road (670m)</p>	<p>Install appropriate drainage. Install gravel if required or lower grade. (13 degrees for 30m, uphill empty), shown on roading map. RC/HC Comments:</p>			
<p>3027/6 Road (200m)</p>	<p>Clear pavement of small regeneration (eucalypt/wattle prior to grading). Install appropriate drainage. RC/HC Comments:</p>			
<p>3027/7 Road (300m)</p>	<p>Clear pavement of small regeneration (eucalypt/wattle prior to grading). Install appropriate drainage. RC/HC Comments:</p>			
<p>3027/8 Road (240m)</p>	<p>Clear pavement of small regeneration (eucalypt/wattle prior to grading). Install appropriate drainage. RC/HC Comments:</p>			
<p>3027/9 Road (40m)</p>	<p>Clear pavement of small regeneration (eucalypt/wattle prior to grading). Drainage not required due to grade and length of road. RC/HC Comments:</p>			
<p>3027/11 Road (90m)</p>	<p>Clear pavement of small regeneration (eucalypt/wattle prior to grading). Drainage not required due to grade and length of road. Do not snig timber through or walk machinery through the section of this road which is not shown on HPOM as “EPL Standard” RC/HC Comments:</p>			

3027/12 Road (70m) FCNSW Section Private Property Section (180m)	Install appropriate drainage. Install Gravel on one steep section or lower grade (11 degrees for 30m), uphill loaded on private property section. Shown on roading map. RC/HC Comments:			
3027/13 Rd (200m)	Clear pavement of small regeneration (eucalypt/wattle prior to grading). Drainage not required due to grade and length of road. RC/HC Comments:			

NEW ROAD CONSTRUCTION

Road Specific Conditions:

Road Name	Road Length (m)	Max. width of road prism (m)	Max. road grade (length road >10 degrees?)	Max. ground slope (length road >30 degrees?)	Estimated Max. height of cut / fill batters (m)	Estimated Max length of batters (m)	Mass movement / dispersible soils	Final road use	Responsibility	Start Date	Finish Date
3 Rd realignment*	80 m	7m	7°	14°	0.5m	40m	No	Retain	FCNSW		

*Construct dump/turnaround. This road has not been marked or taped, roading coordinator may change the alignment to best operational location. If the alignment is changed inform the harvest planner.