

LOCALITY MAP

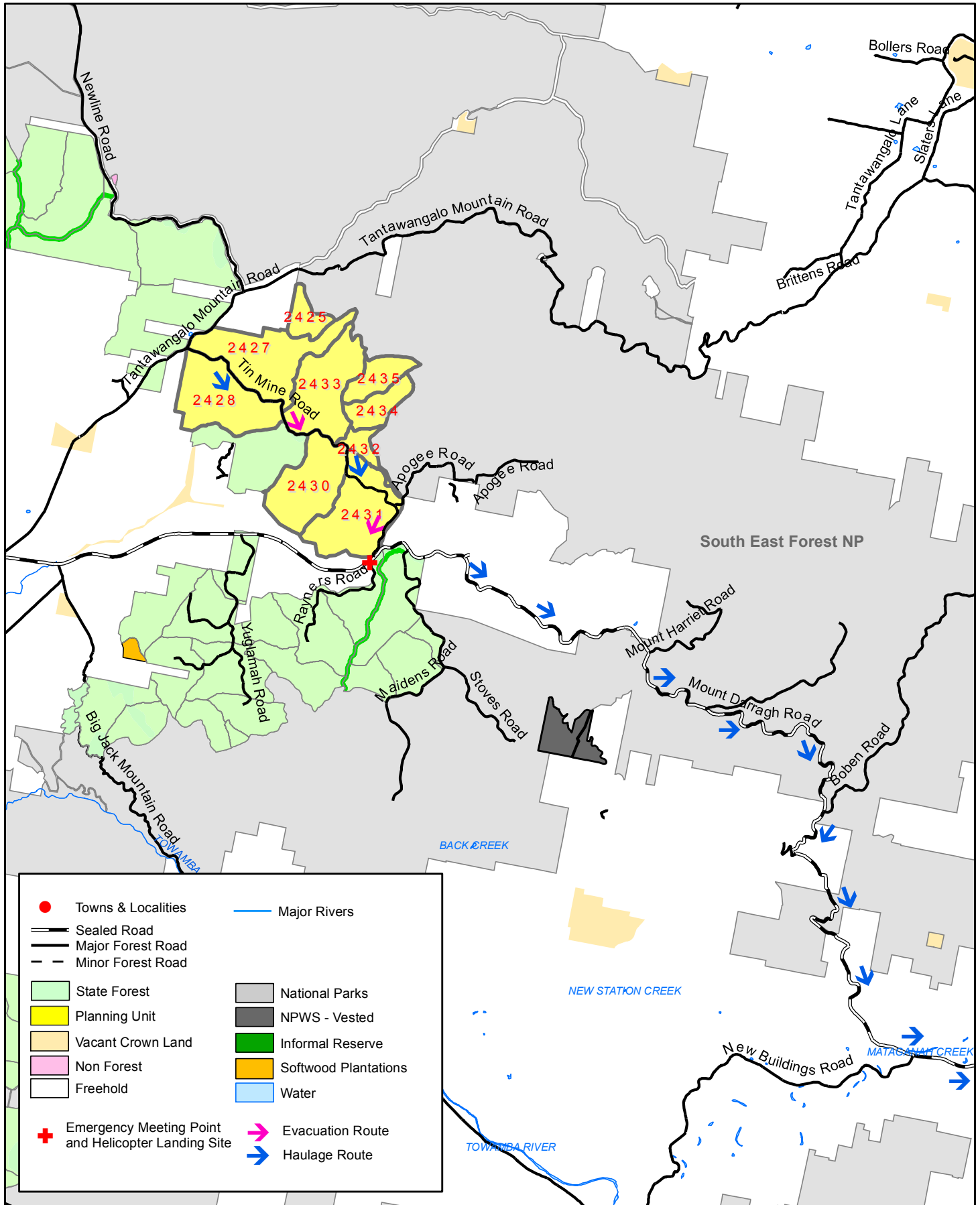
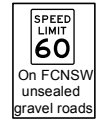
Compartments:

2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434 & 2435

Tantawangalo State Forest No134

EDEN IFOA: EDEN MANAGEMENT AREA

Scale: 1:100,000



Prepared By: Jarod Addinsall

Version: 1

PLANNING SUPERVISOR APPROVAL

APPROVED: Lee Blessington

DATE: 19 / 11 / 2015

Harvest Plan Operational Map

Compartment:

2425, 2427, 2428, 2433, 2434 & 2435

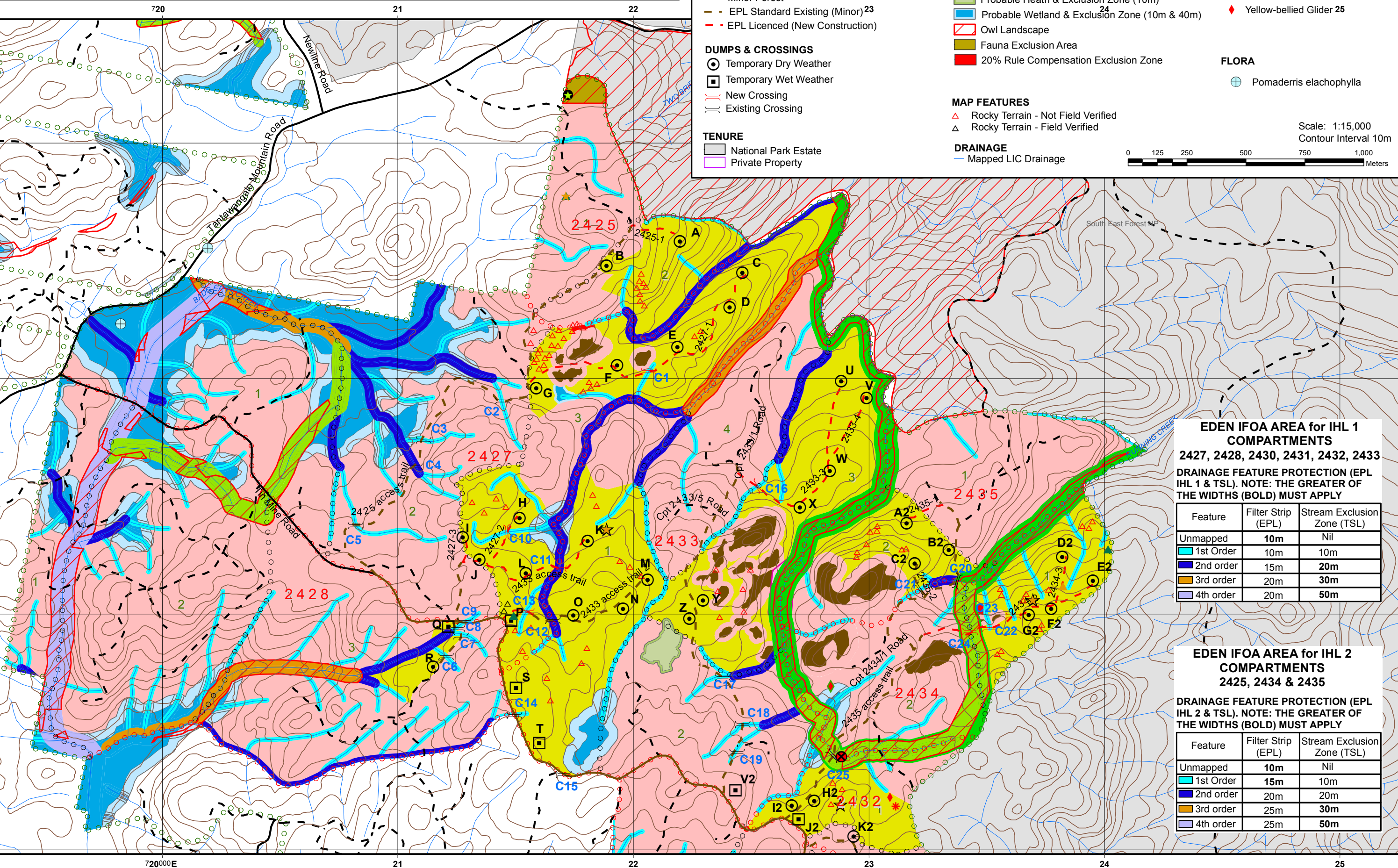
Eden IFOA

State Forest: Tantawangalo No: 134

Map Sheet: Cathcart 8724-2N







Harvest Plan Operational Map

Prepared By:

Jarod Addinsall

Compartments: 2430, 2431 & 2432

Eden IFOA

Version: 1

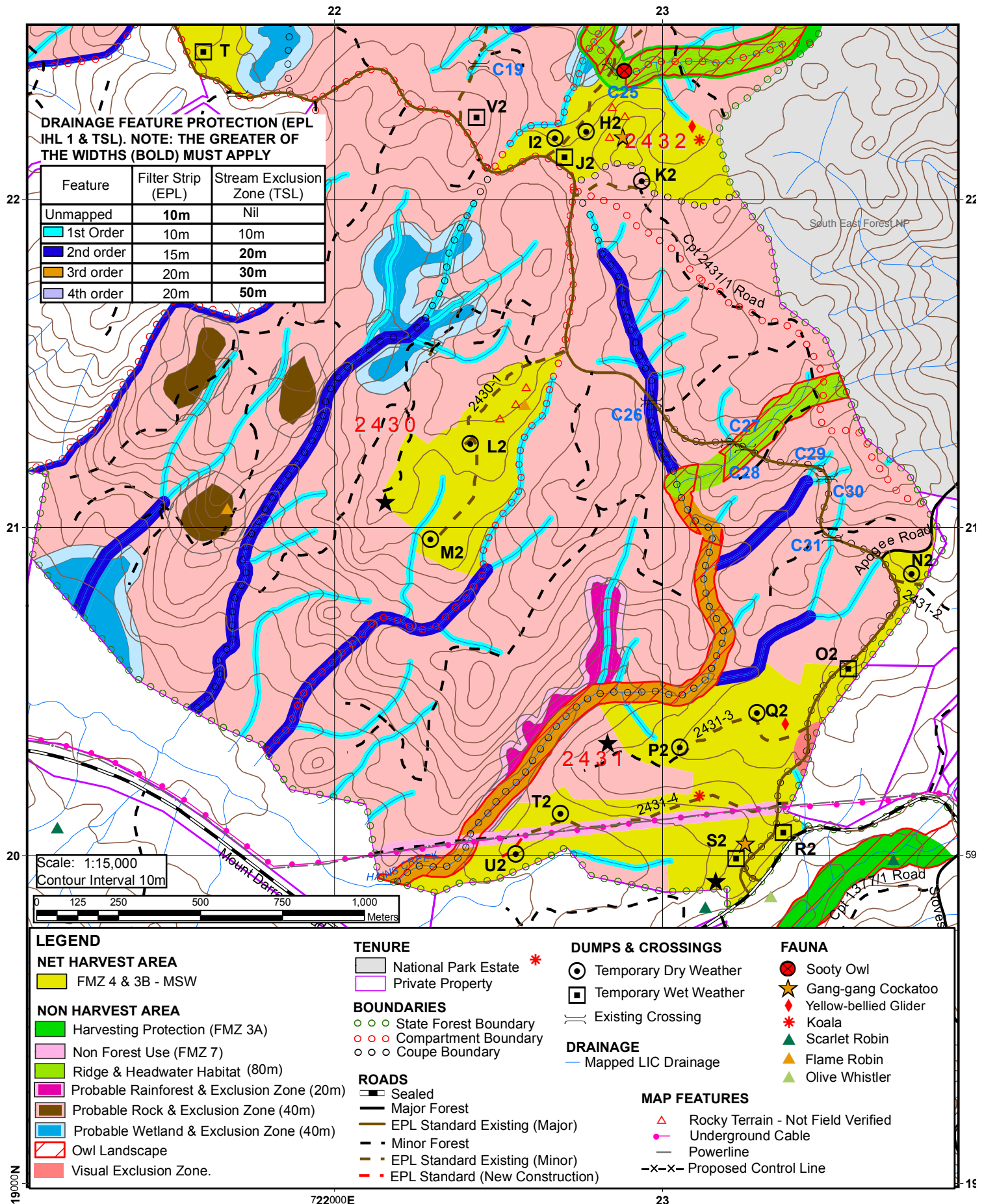
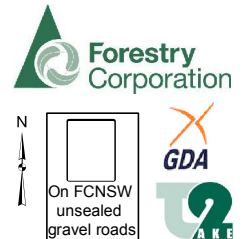
PLANNING SUPERVISOR APPROVAL

APPROVED: Lee Blessington

DATE: 19 / 11 / 2015

State Forest: Tantawangalo No: 134

Map Sheet: Cathcart 8724-2N



Harvest Plan Forest Type Map

Compartments: 2425, 2427, 2428, 2433, 2434 & 2435

Eden IFOA

State Forest: Tantawangalo No: 134

Map Sheet: Cathcart 8724-2N

Prepared By: Jarod Addinsall



SPEED LIMIT

60

On FCNSW
unsealed
gravel roads



LEGEND

BOUNDARIES

- State Forest Boundary
- Compartment Boundary
- Coupe Boundary

ROADS

- Major Forest
- EPL Standard Existing (Major)
- Minor Forest
- EPL Standard Existing (Minor)
- EPL Licenced (New Construction)

DRAINAGE

- Mapped LIC Drainage

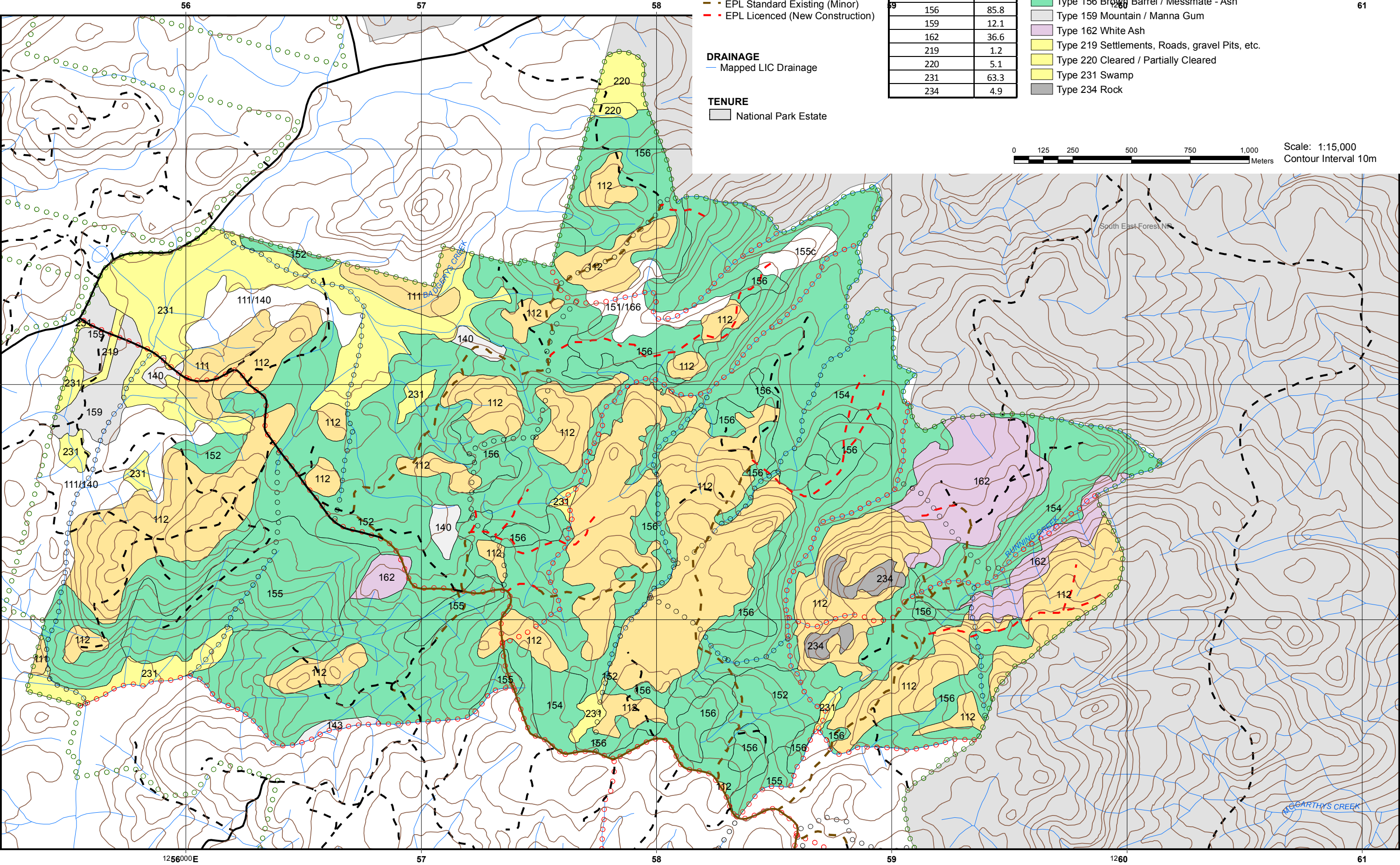
TENURE

- National Park Estate

Forest Type (RN17)	Area (ha)
111	50.3
112	208.4
140	4.9
143	1.3
151	7.0
152	205.2
154	136.1
155	47.1
156	85.8
159	12.1
162	36.6
219	1.2
220	5.1
231	63.3
234	4.9

FOREST TYPE

- Type 111 Peppermint
- Type 112 Silvertop Ash
- Type 140 Snow Gum - Mountain / Manna Gum
- Type 143 Swamp Gum / Black Gum / Broadleaved Sallee
- Type 152 Messmate - Gum
- Type 154 Brown Barrel
- Type 155 Brown Barrel - Gum
- Type 156 Brown Barrel / Messmate - Ash
- Type 159 Mountain / Manna Gum
- Type 162 White Ash
- Type 219 Settlements, Roads, gravel Pits, etc.
- Type 220 Cleared / Partially Cleared
- Type 231 Swamp
- Type 234 Rock



Harvest Plan Forest Type Map

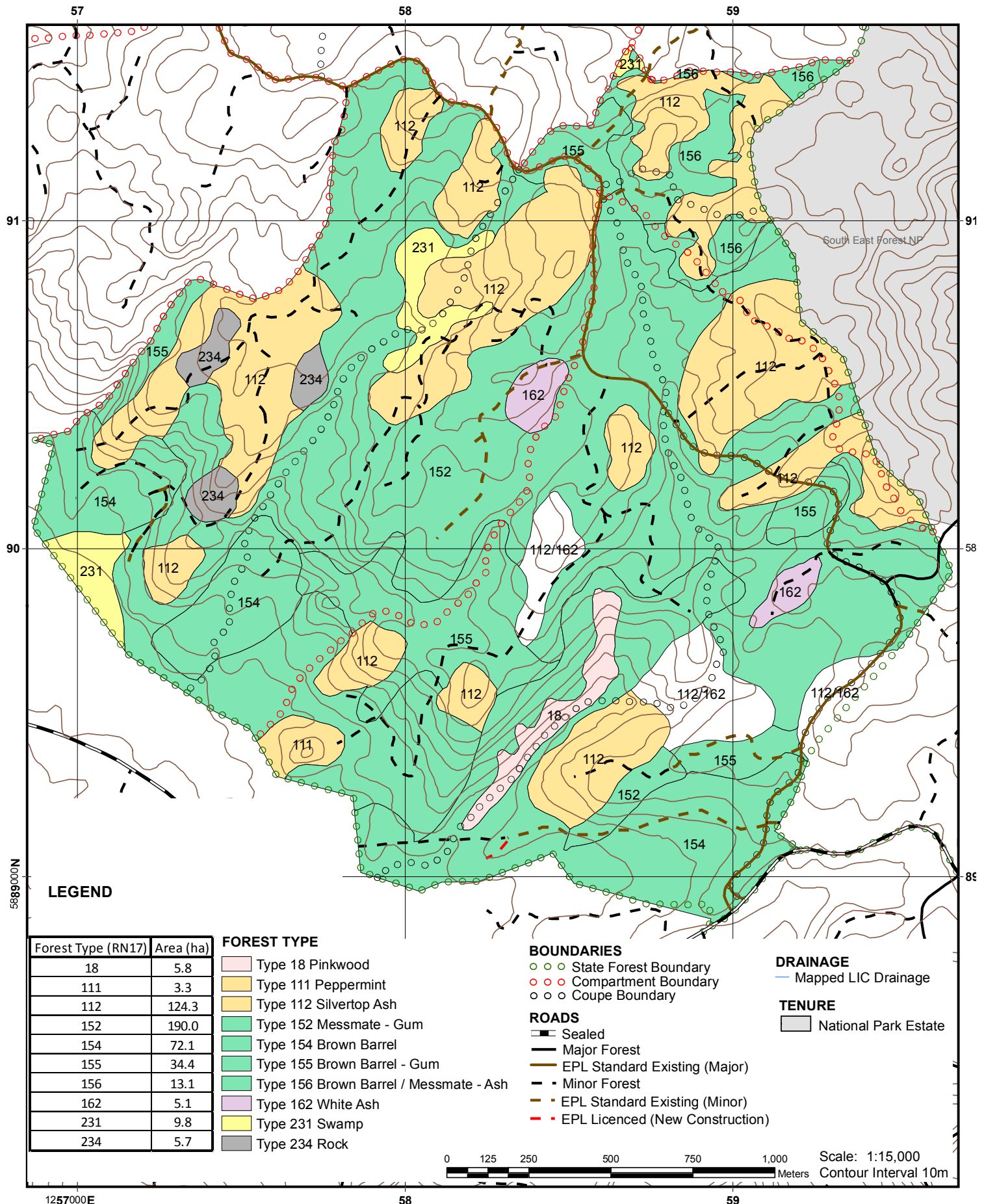
Compartments: 2430, 2431 & 2432

Eden IFOA

State Forest: Tantawangalo No:134

Map Sheet: Cathcart 8724-2N

Prepared By: Jarod Addinsall



Harvest Plan Habitat Class Map




Compartments: 2425, 2427, 2428, 2433, 2434 & 2435

Eden IFOA

State Forest: Tantawangalo No: 134

Map Sheet: Cathcart 8724-2N

Prepared By: Jarod Addinsall



LEGEND

BOUNDARIES

- State Forest Boundary
- Compartment Boundary
- Coupe Boundary

ROADS

- Major Forest
- EPL Standard Existing (Major)
- Minor Forest
- EPL Standard Existing (Minor)
- EPL Licenced (New Construction)

HABITAT CLASS

- Unknown
- High
- Moderate
- Low

DRAINAGE

- Mapped LIC Drainage

TENURE

- National Park Estate

Scale: 1:15,000
Contour Interval 10m

Harvest Plan Habitat Class Map

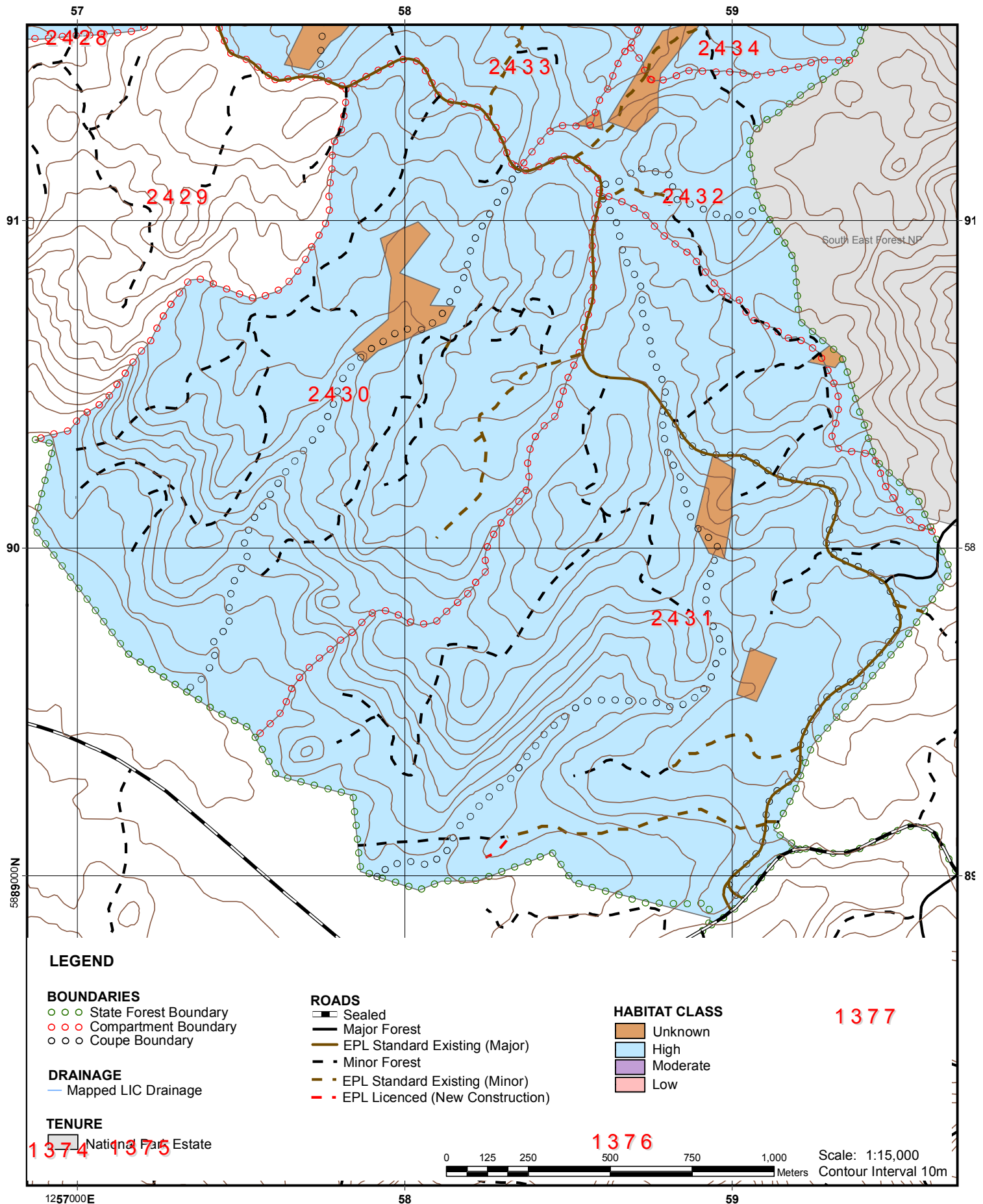
Compartments: 2430, 2431 & 2432

Eden IFOA

State Forest: Tantawangalo No:134

Map Sheet: Cathcart 8724-2N

Prepared By: Jarod Addinsall





HARDWOOD FORESTS- EDEN IFOA HARVESTING PLAN

Tantawangalo State Forest – Compartments 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434 & 2435

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 Eden apply to this operation.

Prepared By: Harvest Planner	Jarod Addinsall	Approved By: Planning Supervisor	Lee Blessington
Signature	Jarod Addinsall	Signature	Lee Blessington
Date	19/11/2015	Date	19/11/2015

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 Cultural Heritage (limited distribution).

Description of Proposal

Harvesting of hardwood forest

(a) Integrated Harvesting of Hardwood Forest:

Mixed-age stands dominated by a commercially mature overstorey will be harvested to create regeneration opportunities through integrated harvesting of sawlogs and pulpwood with the retention of trees for future sawlogs, fauna habitat, seed trees, visual maintenance and soil and water protection.

This operation will be licensed under the EPL with notification sent to the regulatory authorities as per clause 23 of Integrated Forestry Operations Approval (IFOA).

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

Attachment 2: Roading plan prescribes roading requirements for this harvesting operation.

Abbreviations used in this plan

PA = Production Assistant, PtS= Protection Supervisor, PS = Production Supervisor, RC = Rooding Coordinator, IFOA = Integrated Forestry Operations Approval, EPL = Environment Protection Licence, OEH = Office of Environment and Heritage.

Area Identification and Yield Estimates

State Forest	Compartments	Coupe/s	IFOA Region	Management Area	Certification
Tantawangalo	2425	2	Eden	Eden	No. 13761 (AS4708:2007 & ISO 14001)
Tantawangalo	2427	3			
Tantawangalo	2428	3			
Tantawangalo	2430	2			
Tantawangalo	2431	2			
Tantawangalo	2432	1			
Tantawangalo	2433	1 & 3			
Tantawangalo	2434	1			
Tantawangalo	2435	2			

	Cpt 2425	Cpt 2427	Cpt 2428
Plan Compartment ID			
Gross Area (ha)	52	244	216
Net Harvest Area (ha)	15	51	3
Estimated Yield Pulp (t)	2,250t	7,000t	500t
Estimated Yield Sawlog (m3)	250 m3	1,500 m3	50 m3

	Cpt 2430	Cpt 2431	Cpt 2432
Plan Compartment ID			
Gross Area (ha)	193	232	38
Net Harvest Area (ha)	17	38	14
Estimated Yield Pulp (t)	2,500t	5,500t	1,500t
Estimated Yield Sawlog (m3)	250 m3	750 m3	250 m3

	Cpt 2433	Cpt 2434	Cpt 2435
Plan Compartment ID			
Gross Area (ha)	212	71	73
Net Harvest Area (ha)	82	19	13
Estimated Yield Pulp (t)	12,000t	3,000t	2,000t
Estimated Yield Sawlog (m3)	3,000 m3	750 m3	250 m3

	Total
Plan Compartment ID	NA
Gross Area (ha)	1,331
Net Harvest Area (ha)	252
Estimated Yield Pulp (t)	36,250t
Estimated Yield Sawlog (m3)	7,050 m3

Slope Classes (percent of harvest area)

	Cpt 2425	Cpt 2427	Cpt 2428
Slope Class	% of harvest area	% of harvest area	% of harvest area
0-20°	90.2	97.3	100
20-25 °	9.8	2.7	0
25-30 °	0	0	0

	Cpt 2430	Cpt 2431	Cpt 2432
Slope Class	% of harvest area	% of harvest area	% of harvest area
0-20°	100	100	100
20-25 °	0	0	0
25-30 °	0	0	0

	Cpt 2433	Cpt 2434	Cpt 2435
Slope Class	% of harvest area	% of harvest area	% of harvest area
0-20°	99	97.2	81.4
20-25 °	0.8	2.8	16.6
25-30 °	0.2	0	2



ATTACHMENT 1: SITE SAFETY PLAN

Worksite Information		
Is this Declared Hunting Area: Yes	Comments: Hunting exclusion zone in place	
Have Exclusion Zone signs been erected or checked prior to starting work daily.	NA	
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 east via Tin Mine Road (FCNSW owned) turning left onto Mt Darragh Road (Shire owned) then right onto Princes Hwy (State owned).</p> <p>Road intersections outside the control of FCNSW are not covered by this plan or any FCNSW Traffic Control Plan. Haulage contractors must abide by RTA road laws and standard operating procedures in relation to haulage routes outside the control of FCNSW.</p> <p>Traffic Control Plan – The logging contractor is responsible for traffic control on all roads when felling is within two tree lengths of the tallest tree to be felled of the road, or snagging on roads or loading is occurring within 10 metres of a road. Approved Traffic Control Plan “TCP78_MtDarragh_Cpt2431” must be implemented by a suitably qualified person whilst harvesting within 2 tree lengths of the Mt Darragh Rd. BVSC requests that local media (newspaper and radio) be contacted approx. 10 days prior to implementing “TCP78_MtDarragh_Cpt2431” to advise public of possible short delays.</p> <p>Dust and noise – Log haulage on Tin Mine Rd (between the intersections with Apogee Rd and Mt Darragh Rd) must minimise dust and noise to the greatest extent practicable. Trucks must reduce speed to 40km/hr or less, must restrict road use to no earlier than 5:00am and minimise the use of engine brakes through this area.</p> <p>Whilst operating within compartment 2431 the following must apply:</p> <ul style="list-style-type: none"> Whilst working on or harvesting/snigging to dumps O2, Q2 & R2, all machine operation (harvest & haulage) must be between the hours of 7am to 8pm only. Ensure dumps are located as far away as practical from the Visual Exclusion Zone. 		
Name of on-site safety first aider/s		
Location of first aid kit		

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). 60km/hr speed limit on all State Forest natural surface/gravel roads unless otherwise signposted. Compliance with FCNSW lights on policy.		
2. Overhead powerlines or cables	Assess every individual tree for directional felling and degree of risk. Do not fall trees towards overhead hazard if within two tree lengths.		
3. Underground cables, pipelines	Minimise ground disturbance across or along cables & pipelines. Increase depth of earth cover if required.		
4. 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.		
5. 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.		
6. 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.		
7. 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.		
8.			

- **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

Insert "TCP78_MtDarragh_Cpt2431".



MEDICAL EMERGENCY EVACUATION PLAN

Nearest reliable mobile phone reception (describe location)			
Next G Network: Poor	GSM: N/A		Satellite: N/A
GPS Lat/Long: 36° 49' 10" S / 149° 29' 37" E	MGA: 722422E 5922235N	Datum: GDA 94	Zone: 55
Location description: Dump V2 on Tin Mine Rd.			
Emergency meeting point for ambulance / police (refer to attached locality map)			
GPS Lat/Long: 36° 50' 28" S / 149° 30' 10" E	MGA: 723176E 5919817N	Datum: GDA 94	Zone: 55
Location description: Intersection of Rayners Road and Mt Darragh Road.			
Helicopter landing place (refer to attached locality map)			
GPS Lat/Long: 36° 50' 28" S / 149° 30' 10" E			
Location description: Intersection of Rayners Road and Mt Darragh Road.			
Procedures to obtain ambulance assistance			
<ol style="list-style-type: none"> 1. Dial 000 2. If there is no mobile coverage, dial 112 (which will work on any mobile phone system). 3. 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) 		<p>Contact nearest Forestry Corporation office on:</p> <p>Channel: 247</p> <p>Telephone: 1300 880 548</p> <p>Give details of the situation and ask for a 000 call to be placed.</p>	
000 operator question:		Response:	
1. Police, Fire, Ambulance?		NSW Ambulance,	
2. Suburb?		State Forest name: Tantawangalo Nearest town or locality: Cathcart Nearest ambulance station: Bombala	
3. Address?		Tin Mine Road	
4. Nearest road junction/cross street?		Tin Mine Rd and Mt Darragh Rd	
5. Local government area?		On border of Bombala & Bega Valley.	
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 Bombala head northeast on the Bombala/Cathcart Rd travel approx. 16km to Cathcart, continue on the Mt Darragh Rd for approx. 11km to intersection with Rayners Road (on right).			
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:			

Silviculture and Harvesting Prescriptions

Compartment 2425

Year	1957	1987	2000
TSI	X	X	X
HR Burning	X	X	X
Wildfires	Ö	Ö	X
Logging m ³	0	0	4,268

Ö - applies, X – not applicable

Compartment 2427

Year	1957	1987	1990	1997
TSI	X	X	X	X
HR Burning	X	X	X	X
Wildfires	Ö	Ö	X	X
Logging m ³	0	0	5,700	10,440

Ö - applies, X – not applicable

Compartment 2428

Year	1957	1987	1989	1995
TSI	X	X	X	X
HR Burning	X	X	X	X
Wildfires	Ö	Ö	X	X
Logging m ³	0	0	11,664	18,284

Ö - applies, X – not applicable

Compartment 2430

Year	1957	1989	1998	2000
TSI	X	X	X	X
HR Burning	X	X	X	X
Wildfires	Ö	X	X	X
Logging m ³	0	15,641	11,787	3,929

Ö - applies, X – not applicable

Compartment 2431

Year	1957	1980	1992	1998	2000
TSI	X	X	X	X	X
HR Burning	X	X	X	X	X
Wildfires	Ö	Ö	X	X	X
Logging m³	0	0	10,146	19,577	1,948

Ö - applies, X – not applicable

Compartment 2432

Year	1957	1980	2010
TSI	X	X	X
HR Burning	X	X	X
Wildfires	Ö	Ö	X
Logging m³	0	0	926

Ö - applies, X – not applicable

Compartment 2433

Year	1957	2010
TSI	X	X
HR Burning	X	X
Wildfires	Ö	X
Logging m³	0	13,214

Ö - applies, X – not applicable

Compartment 2434

Year	1957	1980	2009
TSI	X	X	X
HR Burning	X	X	X
Wildfires	Ö	Ö	X
Logging m³	0	0	4,214

Ö - applies, X – not applicable

Compartment 2435

Year	1980	2010
TSI	X	X
HR Burning	X	X
Wildfires	Ö	X
Logging m³	0	8,589

Ö - applies, X – not applicable

Silvicultural Planning

The stands to be harvested consist primarily of mature to over-mature Brown Barrel (*E.fastigata*), Mountain Grey Gum (*E.cypellocharpa*), White Ash (*E.fraxinoides*), Broad-leaved Peppermint (*E dives*) and Silvertop Ash (*E.sieberi*).

Mixed-age stands described above will be harvested in a modified shelter-wood silvicultural system in accordance with the Eden IFOA. It is proposed that the mixed-aged stands will next be available for commercial thinning operations in approximately 15-20 years time.

Harvesting Prescription

Stand type	% of net area	Area (refer to HPOM for details)	Treatment (% INT, THIN)
Mature (even aged/ mixed aged)	100%	NHA	<ul style="list-style-type: none">• 100% Integrated (modified shelter-wood)• Target sawlogs, pulpwood and other miscellaneous products as markets allow in line with TSL and EPL requirements.• Retain potential sawlog growers.• Refer to Standard Harvest Planning Conditions for more detail.

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

IFOA Limits

The integrated harvesting operation is in accordance with IFOA Part 1 Condition 5 (11).

No more than 60% of the net harvestable area within these compartments will be harvested during this operation. The next integrated harvesting operation is not permitted within 5 years from the completion of this harvesting event. (integrated)

The PA will ensure that TSL tree retention prescriptions are met concurrent with harvesting operations.

Special Requirements

Non-harvest areas

The HPOM indicates the non-harvest areas in the compartments, as detailed in the legend. Harvesting disturbance is not permitted in non-harvest areas unless authorised by the Planning Supervisor.

Noxious Weeds/Disease/Pests Hygiene Requirements

Compartments 2425, 2427, 2432, 2433, 2434 & 2435 are within Bega Valley 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 Bega Valley 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.

Research Plots – A research area for birds and arboreal marsupials is located within Compartment 2430. See Forest Management Zone section below.

Any other inventory plots located during the harvesting operation which are not shown on the HPOM or described above are to be treated the same as the surrounding area.

Private Property

Private property occurs adjacent to most boundaries of the compartments, as indicated on the HPOM. Private property owners have been notified of the scheduled harvesting and post-harvest burning.

- 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.

Occupation Permits

Apiary

Two apiary sites are located within the planning unit.

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

Rocky Terrain

Rocky terrain occurs within the net planned area. All rocky terrain shown on the HPOM has not been assessed at the planning stage. PA will continue to conduct on the ground mark-up and searches and report back to foresters/ecologist any feature requiring further investigation.

National Parks

The South East Forest National Park forms the eastern boundary of the planning unit. There is no road that forms the boundary between National Park and State Forest. No harvest disturbance is permitted within the National Park.

- Harvesting debris must not be left within five metres of the boundary fence lines.
- The contractor must repair any damage to fences.
- Access roads must be maintained free of debris and in a trafficable state.
- Boundaries must be marked in the field.

Underground Cables

A dial before you dig query of the compartments indicates that underground Telstra cables are present within the FMZ7 area of compartment 2431. Field markers (where located) have been used to indicate the approximate location of the cable on the HPOM. Prior to any harvesting or roading activity taking place in the vicinity of the cables, the PA should inspect the area for markers or other evidence of the cables and flag with marking tape.

When carrying out harvesting or road maintenance activities near cables, minimise ground disturbance across or along and increase depth of earth cover if required.

From time to time above ground infrastructure associated with the cables occurs. Where this infrastructure is detected, the PA should pass the location and details on to the burning supervisor who should consider if extra protection measures (eg rake hoe line) are required.

Any damage to cables must be immediately reported to Telstra on 13 22 03.

Overhead Powerlines

Overhead powerlines (22k volts) occur within the compartment 2431 as shown on HPOM. In consultation with Essential Energy the following prescriptions have been developed for maintenance of 2431-4 Rd and there use for haulage under powerlines and harvesting adjacent to powerlines:

- Extreme care must be taken to not disturb ground in vicinity of poles or come into contact with wires.
- Each tree must be individually assessed and directionally felled when within 2 tree lengths of powerline.
- Signs must be installed either side of powerlines on 2331-4 Rd warning of overhead electrical hazards.
- Refer to FCNSW Safety Procedure 4.8 for more information (attached to plan).

Whilst operating within compartment 2431 the following must apply:

- Whilst working on or harvesting/snigging to dumps O2, Q2 & R2, all machine operation (harvest & haulage) must be between the hours of 7am to 8pm only.
- Ensure dumps are located as far away as practical from the Visual Exclusion Zone.

Forest Management Zoning

FMZ 3A Harvesting Excluded, FMZ 3B-Special Prescriptions (research and catchment), FMZ 4- General Management (normal harvesting prescriptions apply), and FMZ 7-Non Forestry Use (overhead powerlines & underground cable) occur within the compartment. Refer to HPOM for more detail.

FMZ 3B (Research) – A research area exists throughout Compartment 2430. Harvesting is permitted in this zone under standard modified shelterwood prescriptions.

* Harvesting must not commence in Compartment 2430 until advised by the Planning Supervisor, to allow additional research surveys to be conducted.

FMZ 3B (Catchment) – Harvesting is permitted in this zone under standard modified shelterwood prescriptions.

FMZ 3A – Harvesting and harvesting machinery are not permitted in these areas. Prescribed burning is only permitted in these areas where fire does not conflict with underlying protection zones e.g. rainforest, cultural heritage etc. (Refer to cultural heritage flora and fauna sections of this plan and the standard harvest plan conditions for more detail).

FMZ 7 – Prescribed burning is only permitted if fire does not conflict with the specific non-forest use of the site.

IFOA Required Approval of Forestry Activities

Planning Supervisor approvals have been obtained for road construction in FMZ 3A and the location is indicated on the HPOM by FMZ approved crossing C24. Forestry Operations within the plan area must minimise impacts to the exclusion zones and meet the requirements of the EPL and General Exclusion Zones in section of this plan.

Construction or re-opening of roads or snig tracks may occur with prior approval in the following exclusion zones:

- Planning Supervisor approval required for Stream Exclusion Zones or Rainforest.

During the harvesting operation the PA must identify any crossings required in these exclusion zones and contact the Planner to obtain required approvals.

Cultural Heritage

Cultural Heritage - There are two Cultural Heritage sites within the compartments. All relevant representatives have been consulted & inspected Compartments 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434, 2435. Due to the confidentiality of the Cultural Heritage sites, a Cultural Heritage site map will only be attached to the specific copies of the plan. Both 20 metre buffers are marked in the field as **hard exclusion zones (pink & yellow tape)** where logging and/or road works are scheduled to be undertaken. **All operators must be taken to each site within the planned area before any activities are commenced.**

Flora and Fauna

Refer to TSL Booklet for Conditions

Mark-Up Conditions

During the pre-harvest mark up the PA must search for and record threatened species habitat features consistent with Conditions 5.2 and 8.6 of the TSL. Searches for threatened species features must be conducted within that portion of the net planned area where harvesting will occur, and within 50 metres outside this area (eg HCVOG, etc) (conditions 5.1, 5.2 of the TSL).

Where any of these features are found, the feature must be recorded, the Harvesting Plan, including the HPOM, must be amended accordingly and the appropriate condition applied.

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: **Flame Robin** (*Petroica phoenicea*), **Scarlet Robin** (*Petroica boodang*), **Gang Gang Cockatoo** (*Callocephalon fimbriatum*).

Tree Retention-Non-Regrowth Zone

The non-regrowth zone applies to the entire net harvest area. The PA is to mark as per Condition 5.6 of the TSL, in conjunction with indicative Habitat Quality Class Map and on ground assessment. Where the density of habitat trees specified in the table are not available, retain the existing habitat trees plus additional trees of the largest dbhob to meet the required retention rate.

Habitat Quality	Hollow Bearing Tree/ 2ha	TSL Condition	Recruitment Trees/ 2ha	TSL Condition	GG density >1/ha + Habitat/ 2ha	TSL Condition	Protection of Retained Trees	TSL Condition	Dead Standing Tree (only if safe)	TSL Condition	Significant Food Resource*	TSL Condition
High	12	5.6g(i)	12	5.6h(i)	+4	6.3.1	0	5.6l	0	5.6j	0	5.6 k
Medium	8	5.6g(ii)	8	5.6 h(ii)	+8	6.3.1	0	5.6l	0	5.6j	0	5.6 k
Low	4	5.6g(iii)	4	5.6 h(iii)	+12	6.3.1	0	5.6l	0	5.6j	0	5.6 k

0 - Condition applies

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	Rainforest (RF) is mapped within the compartment(s) and is displayed on the HPOM. PA's must mark the RF exclusion zone as mapped. Unmapped RF must also be protected #.
Riparian Protection Zones	5.7	Yes.
Ridge & Headwater Habitat	5.8	Yes.
Wetlands	5.9	Yes. May require further investigation#.
Heath and Scrub	5.10	Yes. May require further investigation#.
Rocky Outcrops and Cliffs	5.11	Yes. May require further investigation#.
Endangered Ecological Community	NA	Has been assessed & is unlikely to occur in the field. May require further investigation#. Removal of timber, harvesting machinery and post harvest burning must be excluded from all areas of EEC.

#PA 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 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434, 2435.	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	no	5.14.2

Feature	Records in 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434, 2435.	Licence conditions under the TSC Act
Protection of flying-fox Camps	No	5.14.3
Burning	Net planned area	5.16
Ground Habitat Protection	Net planned area	5.17

Species & Site-Specific Threatened Flora and Fauna Prescriptions

Contractors and supervisory staff must immediately report any sightings of Schedule 1 and 2 species to the PS. The Harvesting Plan must be amended to include additional prescriptions if necessary. If any species requiring a site specific prescription in accordance with condition 1.2 of the TSL are detected in or within 100m of the compartment boundaries cease operations immediately & Inform PS.

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 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434, 2435.	Licence conditions under the TSC Act or relevant Site-specific prescription
Powerful Owl <i>Ninox strenua</i> , Masked Owl <i>Tyto novaehollandie</i> , Sooty Owl <i>Tyto tenebricosa</i>	Yes	6.3 Owl Landscape Exclusion Zones occur in compartments 2427, 2428, 2431, 2432, 2433, 2434 & 2435. (Refer to HPOM).
Brush-tailed Phascogale <i>Phascogale tatoatafa</i>	Yes	6.9
Spotted tailed Quoll <i>Dasyurus maculatus</i>	No	6.10
Koala <i>Phascolarctos cinereus</i>	Yes	6.11
Yellow-bellied Glider <i>Petaurus australis</i>	Yes	6.13
<i>Pomaderris elachophylla</i> .	Yes	6.18 Apply 10m exclusion around individuals. If colonies of more than 5 individuals are found apply 6.18 d) additional modified harvesting zone. Note there are records of this species within the planned compartments at the following locations: GDA Zone 55 719823E, 5924234N

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

Site-specific EPL Conditions

Elements	Conditions
Unmapped Drainage Lines	EPL applies
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	IHL1 for compartments 2427, 2428, 2430, 2431, 2432 & 2433. IHL2 for compartments 2425, 2434 & 2435.
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

Log Dump Location

48 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 1 Conditions 26, 27, 30, and 33 of Schedule 4 of the EPL must apply for compartments 2427, 2428, 2430, 2431, 2432 & 2433. Inherent hazard level 2 Conditions 26, 27, 28, 30, 31 and 33 of Schedule 4 of the EPL must apply for compartments 2425, 2434 & 2435.

Expected Felling/ Extraction & Loading Method

The expected felling method is mechanical, extraction method by skidder, and loading method is by excavator.

Drainage Feature Crossings

31 road crossings (C1 – C31) are approved for use on drainage features. (Refer to HPOM). Crossing details are contained in Attachment 2 of this Plan.

Mass Movement

Compartments 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434 & 2435 are 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 crossings or road crossing in the compartments.

Condition 47 of Schedule 4 of the EPL must apply.

Road Works

The roading and crossing works must be undertaken, by contractor or FCNSW staff, prior to the commencement of harvesting activity in the area served by the road or crossing. The roading plan specifies who is responsible for supervising and paying for the maintenance works.

Within the compartment boundary only roads that are shown on the HPOM as EPL standard or sealed may be used for haulage. **Refer to EPL Schedule 5 – Operating Conditions for Roads.**

Roads within the compartment boundary may be used with PA approval for snigging or extraction provided they are drained to EPL specifications.

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 PA 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 PA 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 compartments 2425, 2427, 2431, 2432, 2433, 2434 & 2435. 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
South East Forest National Park.	
Private Property.	
Neighbour Buffer.	
FMZ3A.	
Ridge & Headwater Habitat.	

FMZ7 – Overhead Powerline & Underground cable.

The table below lists critical boundaries in compartment 2431. 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, PA must instruct contractor to construct a bare earth break (drained as per EPL snig track conditions) as close as possible to the critical boundary. The logging slash/debri must not be windrowed or piled adjacent to the control line. Ensure it is spread throughout the harvested area.

Critical boundary	Completed Yes /No
Private Property (eastern boundary).	

Legal Conditions

In 1999, the Commonwealth and NSW Governments signed a Eden Regional Forest Agreement which, among other things, allows for the supply of timber for 20 years from public lands under the following NSW legislation:

- Forestry Act 2012, and
- Forestry & National Park Estate Act 1998

The latter Act provides for the Eden Forest Agreement and Eden Integrated Forest Operations Approval (IFOA), both approved by NSW Government Ministers. This harvest plan is issued under the authority provided within the IFOA.

The IFOA also contains three licences issued under:

- Section 55 of the Protection of the Environment Act 1997 (EPL)
- Threatened Species Conservation Act 1995 (TSL).
- Section 220ZW of the Fisheries Management Act 1994 (FL).

This harvest plan will be managed in the field under:

- Licences issued under the Forestry Act (2012)
- Forest Practices Code part 2 (Timber Harvesting in Native Forests - 1999) and part 4 (Forest Roads and Fire Trails - 1999)
- Standard Harvest Plan Conditions for Hardwood Forest Operations under the IFOA
- FCNSW Corporate Fuel Management Plan 2008.

Harvesting operations must comply with all of the above Licences and the Code.

Further information is available from <http://www.environment.nsw.gov.au/>

Pre Operational Briefing

I acknowledge that I have received a copy of the Harvesting Plan for Compartments 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434, 2435 in Tantawangalo 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 PS or his/her delegate.

Position	Name	Signature	Date

Details to Record in PA Notes

- Dates of commencement and cessation of logging
- Record the commencement and completion of harvesting at each dump
- Record the occurrence of temporary stopping of harvesting at each dump.
- Situations where drainage could not be completed due to saturated soils must be recorded in PA Notes.
- Record the commencement and completion of each construction, upgrading or maintenance of drainage feature crossings by snig tracks or extraction tracks.
- Bi-weekly checks of road drainage structures during haulage operations.
- Record the date of checks, drainage structure compliance and the any repairs required within the specified time period.
- Records of Threatened Flora and Fauna identified during compartment markup.
- Minor variations associated with moving or adding dumps.
- Daily events of importance eg. Instructions to crew, work activity.

Post Harvest Mapping Features Confirmation Checklist

Feature	Planning Updates	Reason (Error/New)	GIS update tool completed?	Harvesting Updates	Comments
Soil Regolith	No				
Mapped Drainage	No				
Rainforest	No				
Rocky outcrops	Yes	Error	Yes		
Wetlands	No				
Cultural Heritage	No				
Existing Roads	Yes	Error	Yes		
New Roads	Yes	New	Yes		
Heath	No				
Powerlines etc	Yes	Error	Yes		
20% rule Exclusion Zone	Yes	New	Yes		

[illegible]

**** If track edge clearing exceeds 3 metres, document the reason for field approval in the compartment diary.**

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 1		Week 2		Week 3		Week 4		Week 5		Week 6	
	1st	2 nd	1st	2 nd	1 st	2 nd	1 st	2 nd	1st	2 nd	1st	2 nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 7		Week 8		Week 9		Week 10		Week 11		Week 12	
	1st	2 nd	1st	2 nd	1 st	2 nd	1 st	2 nd	1st	2 nd	1st	2 nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 13		Week 14		Week 15		Week 16		Week 17		Week 18	
	1st	2 nd	1st	2 nd	1 st	2 nd	1 st	2 nd	1st	2 nd	1st	2 nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 19		Week 20		Week 21		Week 22		Week 23		Week 24	
	1st	2 nd	1st	2 nd	1 st	2 nd	1 st	2 nd	1st	2 nd	1st	2 nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

[illegible]

[illegible]

[illegible]

[illegible]

HP_ED_2425_2427_2428_2430_2431_2432_2433)2434_2435_15
30

Clearance Certificate

**COMPARTMENTS: 2425, 2427, 2428, 2430, 2431, 2432, 2433, 2434 & 2435,
TANTAWANGALO STATE FOREST**

ToProduction Assistant

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).....
Production Assistant

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 (PA estimate)	Number of AGS gaps created	Comments
Integrated/Modified shelterwood			
Thinning			
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

Dump No#	Sweep 1	Sweep 2	Sweep 3	Sweep 4	Average
				Post BA	Average
				Pre BA	Average
					m ² /ha
					m ² /ha

Comply with maximum Thinning BA removal of 75%?

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

Summary of Roading Requirements

Feature	Details	Works Required
Existing roads to be used	14,530m/12	Yes
New roads to be constructed	5,135m/12	Yes
Existing crossings used	24	Yes
New crossings to be constructed	7	Yes
Length of road >10°	95m	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 PA for completion 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.

CHECKLIST OF WORKS REQUIRED ON ROADS & CROSSINGS

Road/Crossing Name	Works Required	Date Started	Date finished	Signature
Tin Mine Rd FCNSW Responsibility	Routine maintenance. RC/PA Comments:			
2425 Access Trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2427-1 trail Contractor Responsibility	Construct new road. Within the Rocky Outcrop exclusion zone, the road formation must not be greater than 4m wide, with a maximum of 1.5m either side of road formation for roadside clearing.			
2427-2 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			

2428-1 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2433-1 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2435 access trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2435-2 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2434-2 trail Contractor Responsibility	Construct new road. Within the Rocky Outcrop exclusion zone, the road formation must not be greater than 4m wide, with a maximum of 1.5m either side of road formation for roadside clearing.			
2431-1 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2430-1 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2431-2 trail	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate			

Contractor Responsibility	truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2431-3 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
2431-4 trail Contractor Responsibility	Clear and reshape road surface where required. Clear up to 3 m either side of road to facilitate truck movements. Install drainage as per EPL requirements. RC/PA Comments:			
C1 Contractor Responsibility	Refer to C1 crossing form. RC/PA Comments:			
C5 Contractor Responsibility	Refer to C5 crossing form. RC/PA Comments:			
C10 Contractor Responsibility	Refer to C10 crossing form. RC/PA Comments:			
C11 Contractor Responsibility	Refer to C11 crossing form. RC/PA Comments:			
C13 Contractor Responsibility	Refer to C13 crossing form. RC/PA Comments:			
C16 Contractor Responsibility	Refer to C16 crossing form. RC/PA Comments:			
C22 Contractor Responsibility	Refer to C22 crossing form. RC/PA Comments:			
C23 Contractor Responsibility	Refer to C23 crossing form. RC/PA Comments:			

C24 Contractor Responsibility	Refer to C24 crossing form. RC/PA Comments:			
C25 Contractor Responsibility	Refer to C25 crossing form. RC/PA 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
2425/1 trail	200m	7m	7°	12°	1.5m	200m	No	Retain	Contractor		
2427/1 trail	1,250m	7m	9°	15°	1.5m	300m	No	Retain	Contractor		
2427/2 trail	350m	7m	4°	7°	1.0m	100m	No	Retain	Contractor		
2433 access trail	550m	7m	5°	9°	1.5m	150m	No	Retain	Contractor		
2427/3 trail	105m	7m	3°	4°	0m	0m	No	Retain	Contractor		
2433 access trail 2	150m	7m	7°	10°	1m	100m	No	Retain	Contractor		
2433-3	900m	7m	12° (25m)	10°	1.5m	100m	No	Retain	Contractor		
2433-4	330m	7m	7°	5°	0.5m	100m	No	Retain	Contractor		
2434-2	800m	7m	10°	14°	1.5m	200m	No	Retain	Contractor		
2434-3	210m	7m	8°	10°	1.5m	150m	No	Retain	Contractor		
2435-1	200m	7m	5°	4°	0.5m	100m	No	Retain	Contractor		
2431-4 extension	90m	7m	1°	2°	0m	0m	No	Retain	Contractor		

General Instructions for road construction:

Features	Road Specifications	Additional instructions / Materials
Type of sediment trapping / soil erosion/ sediment control device to be used during construction	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required.	PA to monitor during road construction and assess requirements.
Recommended road drainage type	Recommend rubber flaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. PA to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL. Trafficable rollovers to be installed upon harvest completion	Rubber flaps during operation. Permanent trafficable rollovers to be installed upon completion of use.
Spacing of road structures to be installed	As per EPL Sch. 5, Section C, Table 1	
Soil erosion / sediment control techniques	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation. Upon harvest completion, logging debris is to be removed from table and mitre drains so they are left in effective working order	Seed & mulch as required
Stabilisation assessment intervals	As per EPL Sch. 5, Clauses 15, 17, 19 & 20	
Drop down & dissipater required	Required where fill batter >1m as per EPL Schedule 5 Clause 36	PA to monitor. Mitres with rock dissipater recommended.
Soil stabilisation techniques of disturbed areas	Seed & mulch as required	

Note: Maintenance works not completed by Roding Coordinator must be recorded and passed on to the PA.

Pomaderris elachophylla F.Muell.

Family **Rhamnaceae**

Common name: Small leaf pomaderris, Lacy Pomaderris



Pomaderris elachophylla F.Muell. **APNI***

Description: Slender shrub, branches many, strongly rusty-tomentose with coarse stellate hairs.

Leaves \pm circular to broad-elliptic, mostly 4–8 mm long and 3–6 mm wide, apex obtuse, upper surface dark green, sparsely hairy with \pm simple hairs; lower surface whitish with dense stellate hairs, some hairs along veins rusty; stipules linear, 2–3 mm long, caducous.

Flowers small, yellowish, in few-flowered cymes, terminal and in upper axils, forming leafy racemes or panicles. Petals absent.

Capsule stellate-hairy, valves longer than hypanthium.

Distribution and occurrence: In the ranges south-east of Bombala.

Restricted to forest areas.
NSW subdivisions: ST

Other Australian states: Vic. Tas.

Threatened species: **NSW TSCA:** Endangered

