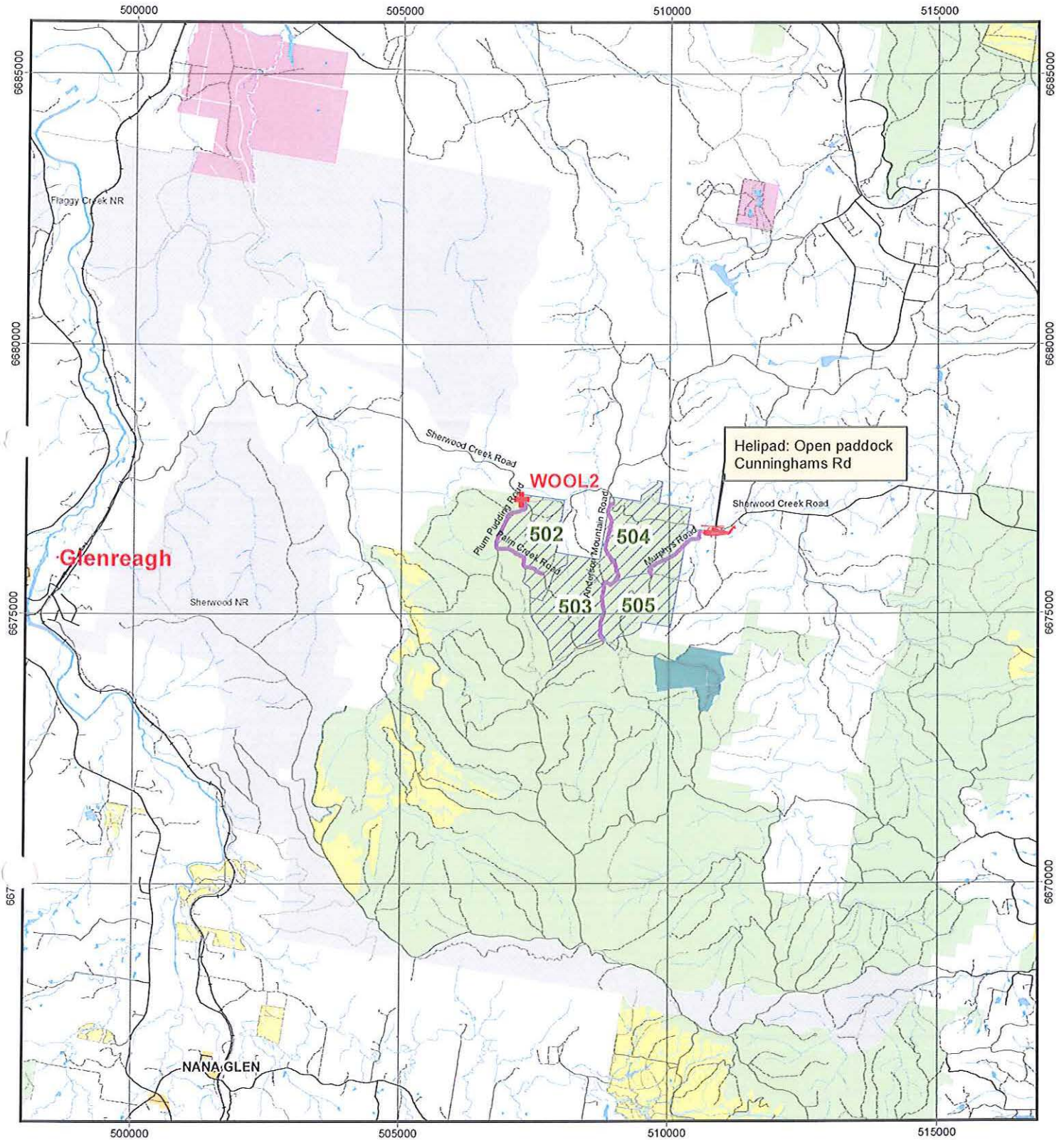


N
 Map Sheets:
 1:25,000 WOOLGOOLGA 9537-4N
 1:100,000 Coffs Harbour 9537
 Scale: 1:100,000

North East Region - Coffs Harbour MA
 Locality Map
 Compartment(s): 502, 503, 504 & 505
 Conglomerate SF No. 349



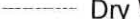


 Datum: GCS_GDA_1994
 Projection: GDA_1994_MGA_Zone_56





MAP FEATURES

-  Harvest Area
-  Plantation
-  State Forest
-  National Park & Nature Reserve

ROADS

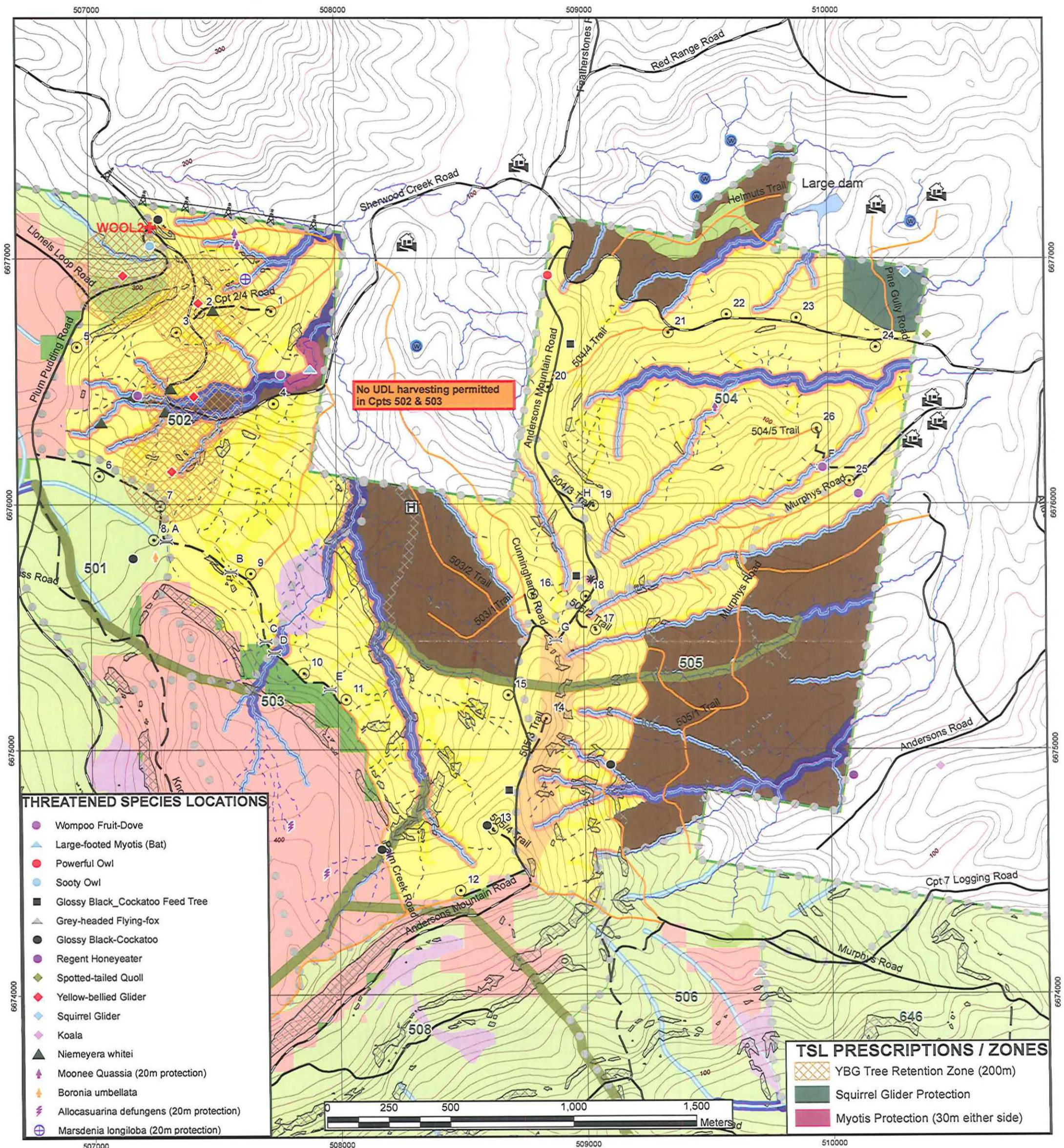
-  Sealed
-  All Weather, Unsealed
-  Dry Weather, Unsealed
-  Four Wheel Drive
-  Proposed Haulage

SAFETY POINTS

-  Helicopter Landing Area
-  Safety Points



Created By: Flavio Bugno
 Created: 5/07/2013
 Printed: 5/07/2013

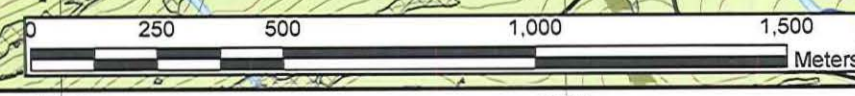


THREATENED SPECIES LOCATIONS

- Wompoo Fruit-Dove
- ▲ Large-footed Myotis (Bat)
- Powerful Owl
- Sooty Owl
- Glossy Black-Cockatoo Feed Tree
- ▲ Grey-headed Flying-fox
- Glossy Black-Cockatoo
- Regent Honeyeater
- ◆ Spotted-tailed Quoll
- ◆ Yellow-bellied Glider
- ◆ Squirrel Glider
- ◆ Koala
- ▲ Niemeyera whitei
- ▲ Moonee Quassia (20m protection)
- ▲ Boronia umbellata
- ▲ Allocasuarina defungens (20m protection)
- ▲ Marsdenia longiloba (20m protection)

TSL PRESCRIPTIONS / ZONES

- ▨ YBG Tree Retention Zone (200m)
- Squirrel Glider Protection
- Myotis Protection (30m either side)



<p>MAP FEATURES</p> <ul style="list-style-type: none"> — State Forest Boundary ● Compartment Boundary — 1 Km Grid — 10 / 100 m Contour ■ State Forest — Drainage Line - - - Indicative Drainage Feature (Lidar) <p>ROADS</p> <ul style="list-style-type: none"> — Shire Road — All Weather, Unsealed — Dry Weather, Unsealed — Non Haulage Roads 	<ul style="list-style-type: none"> * Quarry + Safety Meeting Point ✈ Helipad ⊙ Dam 🏠 House Ⓜ Non Aboriginal Cultural Heritage ⚡ Powerline <p>DUMPS & CROSSINGS</p> <ul style="list-style-type: none"> ⊙ Log Dump — Approved Crossing 	<p>HARVESTING PROTECTION (TSL, EPL & FL)</p> <p>Riparian (IHC 1 & 2)</p> <ul style="list-style-type: none"> ■ Filter 5m either side ■ Protection 5m either side ■ Protection 15m either side ■ Protection 25m either side ■ Protection 45m either side ■ Operational zone 10m either side <p>RIDGE & HEADWATER HABITAT</p> <ul style="list-style-type: none"> ■ 40m wide exclusion 	<p>HARVESTING PRESCRIPTIONS</p> <ul style="list-style-type: none"> ■ General Management (FMZ 4) ■ Areas for Further Assessment ■ Visual Protection - 50% retention (FMZ 3B) ■ Premerchantable <p>FOREST MANAGEMENT PROTECTION</p> <ul style="list-style-type: none"> ■ Special Management (FMZ 2) ■ Needlebark Stringybark Forest Type Protection (FMZ 3A) ■ High Conservation Value Old Growth ■ Rainforest - Crafti + RN17 ▨ Indicative Slopes > 30 degrees (Lidar derived)
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Map Sheets: WOOLGOOLGA 9537-4N

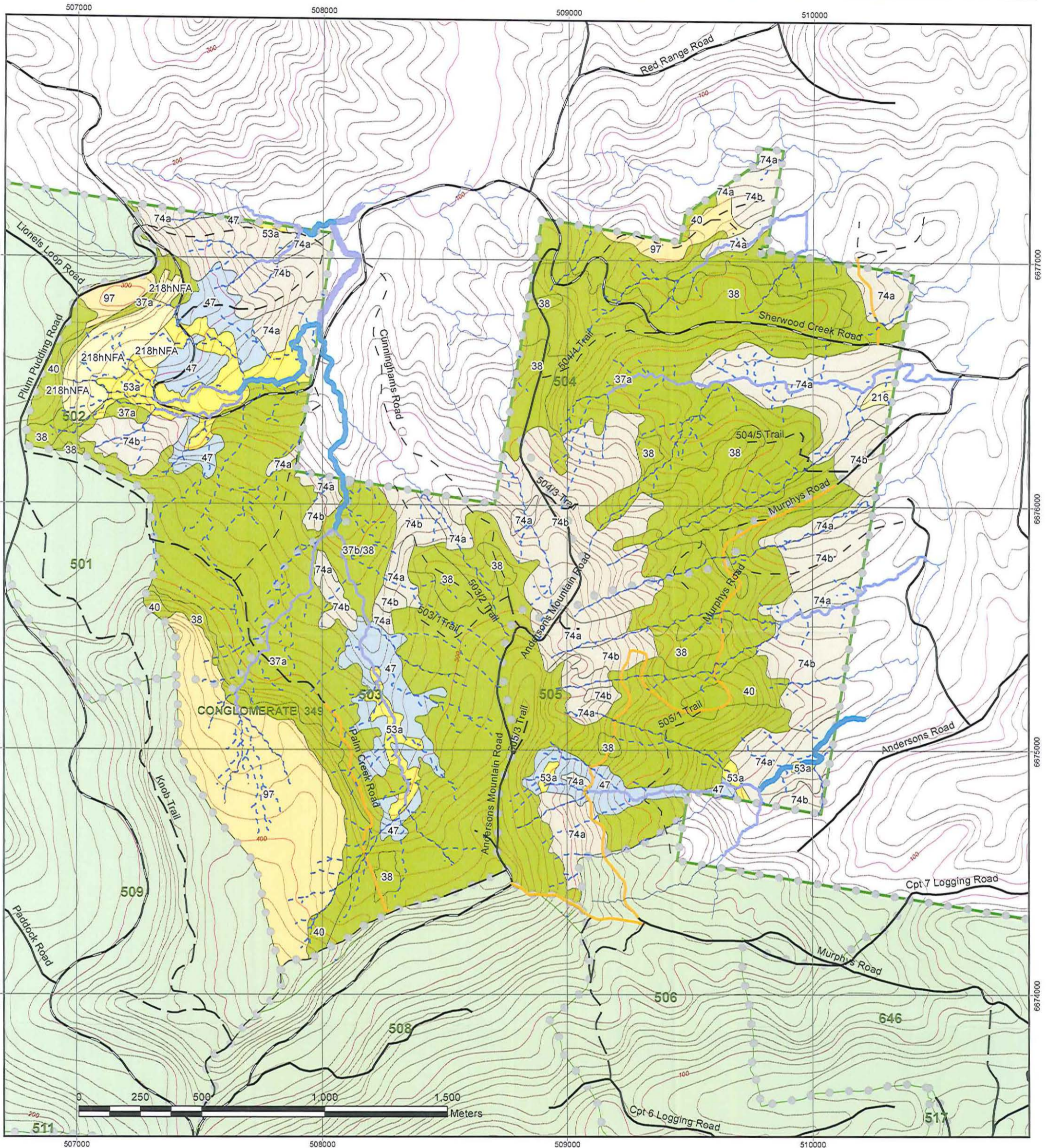
North East Region - Coffs Hr MA Harvest Plan Forest Type Map

Compartments 502-505 Conglomerate State Forest

Scale 1:15,000



Prepared by... Flavio Bugno
Date:26/07/13



MAP FEATURES

- State Forest Boundary
- Compartments Boundary
- 1 Km Grid
- 10 / 100 m Contour
- State Forest
- National Park Estate
- Swd Pit (Z6) / Non Forest (Z7)

ROADS

- Shire Road
- All Weather, Unsealed
- Dry Weather, Unsealed
- 4WD Track

Stream Order

- Indicative drainage feature (Lidar)
- 1
- 2
- 3
- 4 PLUS

Forest Types

- Type 37 Dry Blackbutt
- Type 38 Largefruited Blackbutt
- Type 40 Blackbutt - Scribbly Gum
- Type 47 Tallowood - Sydney Blue Gum
- Type 53 Brush Box
- Type 74 Spotted Gum - Ironbark / Grey Gum
- Type 97 Needlebark Stringybark
- Type 216 Improved Pasture and Cropland
- Type 218 Forestry Plantations

FORESTRY CORPORATION of NEW SOUTH WALES

NORTH EAST REGION


HARVESTING PLAN No. 10435

Conglomerate State Forest - Compartments 502, 503, 504 & 505

1. Certification

This plan has been prepared in accordance with the Integrated Forestry Operations Approval issued under the Forestry and National Park Estate Act 1998 and addresses significant aspects and impacts in the planning process. The **Standard Harvest Plan Conditions for Native Forest Operations in North East Region** apply to this operation.


Prepared by:

Harvest Planner		Date: 30/7/13
Flavio Bugno		

Endorsed by:

Harvest Planning Team Leader		Date:

Endorsed by:

Regional Planning Manager		Date: 07/08/13
MATT HOWAT		

Approved by:

Regional Manager		Date: 7/8/13
Craig Busby		

Note: Approval includes the Harvest Plan Operational Map (HPOM) version 1.

Approval is valid until 04 March 2023.

2. Description of Proposal

Selective harvesting of regrowth native forest stands, using Single Tree Selection.

Other

	Proposed	Details
Roadworks	Yes	Roadworks Plan (attached)
Post harvest Burning	No	
Rehabilitation	No	

3. Area Identification and Yield Estimates

Region	North East Region
Management Area	Coffs Harbour
State Forest	Conglomerate
State Forest No.	349
Pricing area	Coffs Harbour
Other Tenure Details (if applicable) For Lease & other non State Forest tenure (Lot/DP)	State forest only

	Cpt 502	Cpt 503	Cpt 504	Cpt 505	Total
Gross Area (ha)	148	200	186	159	693
Net Harvest Area (ha)	113	85	142	61	401
Estimated Yield (m3/ha)	11.4	11.4	11.4	11.4	11.4
Volume (m3) All Product	1288	969	1619	695	4571

Products	Total (m3)
High Quality Large	1604
High Quality Small	521
Veneer	80
Poles	481
Low Quality	1885
Total	4571

4. Forest Description

Forest Type: (See Forest type map)

- Dry Blackbutt types 37/38 are the predominant types located on mid to upper ridges. Spotted Gum dominates within this type on poorer upper slopes.
- Spotted Gum types occur on mid to lower slopes where soils are less sandy.
- Moist Coastal Hardwood types dominating on shaded aspects and lower slopes – consisting of moist shade tolerant Turpentine, Grey Gum, Blue Gum, Tallowood and Mahogany species.

- Plantation (type 218) consisting of Blackbutt and Flooded Gum will be treated as native forest in this plan.

Harvest History:

- These compts have been harvested several times since 1941. Sections of the Cpts were heavily TSI'd during 1978-81. A small area of BBT & FG plantation was established in the northern end of Cpt 502 in 1988.
- Last harvests for Cpts 502 & 503 in 2002, Cpt 504 in 1983 and Cpt 505 in 1996 were carried out using STS silviculture.

Stand Description:

Even Aged BBT

- Advanced sapling 20-30cm dbhob regrowth resulting from heavy harvest and TSI event.

Mixed Age BBT/SG consisting of:

- Sapling: 0-30cm dbhob regrowth from later harvests makes up 20%. And
- Pole 30-50cm dbhob component resulting from previous earlier harvest events (30%). And
- Mature 50-80cm dbhob component resulting from previous earlier harvest events (50%).

Site Quality

- Generally good site quality with site height 25-35m in the south and west.
- Poorer forest type and quality progressively heading to the north or east into poorer sandy soils.

Stand health

- Good – few old defective trees in better quality TSI'd stands in southern sections of Cpts.
- Poorer crowns and overmature defective stems in lower site quality stands in the north & east.

5. Silviculture and Harvesting Prescriptions

Notwithstanding the prescriptions detailed below, all conditions of the IFOA, including General and Species Specific conditions of the Threatened Species Licence and the Environment Protection Licence are to be applied, where they are described in this plan or in the respective licences.

Objectives:

- Maximise the recovery of merchantable timber from the mature age/size cohort within the constraints of the harvest plan
- Create suitable conditions for a regeneration event.

	Stand Description		
	Mixed age Blackbutt and Mixed aged Mixed Species	Even-aged pole sized Blackbutt	Premerchantable Areas Even-aged BBT spar regrowth, low quality stands
Treatment – current ops	Moderate STS	Thinning (see footnote below)	Exclude from harvesting
Est. % of NHA	92%	8%	0%
Expected BA Removal (%)	31% (based on tactical inventory)	Up to 50%	nil
Future Ops 10-15 years	Thinning/STS	STS	Thinning
Other treatments	<ul style="list-style-type: none"> • Retain seed trees • Mechanical disturbance 		

Patches of even aged BBT are located in southern end of Cpts 503 & 505 off Andersons Mountain Road. Note tree retention conditions for visual zone in section 7.

Single Tree Selection prescription:

- Tree removal and ground disturbance must also maximise regeneration opportunities.
- Single Tree Selection must remove no more than 40% of the basal area across the net harvest area.
- Trees with dbhob <20cm must not be selected for harvesting under STS (1.5.10 IFOA).
- BA removal may exceed 40% in some localized areas, but will be balanced by offset areas, non harvest areas and tree retention across the tract.

Thinning Prescription:

- Harvesting will be managed with the objective of removed sub-dominant and occasional co-dominant mature trees to concentrate growth on the best form dominant and co-dominant trees.
- Thinning may be carried out only in even aged regrowth stands.
- No more than 60% of the sum of the basal areas of trees in the stand may be removed in any one operation.

In areas of heavy lantana/wattle off Palm Creek Road; seed tree retention, mechanical disturbance and enrichment planting may be required. The SFO must assess these areas after pre-harvest mark up and mark additional seed trees for retention where general tree retention does not retain sufficient seed trees in accordance with the spacing shown below.

The Harvesting Forester must assess these areas after harvest and is responsible for ensuring that additional mechanical disturbance to achieve satisfactory regeneration is achieved

Seed Tree Selection:

Seed trees should be

- as tall as possible (~30-40m),
- have good form,
- be in the size range 40-70cm dbhob and
- generally be spaced at 1 1/2 x tree height but not more than 2 x tree height. (trunk to trunk).
- Trees in retention areas may also serve as seed trees.
- Seed trees may also fulfill tree retention requirements of the TSL.

Mechanical Disturbance

- Ensure ground disturbance is sufficient to create suitable seedbed for regeneration
- SFO to map and recommend any areas requiring additional disturbance
- Encourage knocking over of as much non-vigourous unmerchantable material as possible.

Major variations from this intent require the approval of the Harvesting Team Leader

The SFO must monitor basal area retention under STS.

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

6. Special Conditions

6.1 EPL Licensing (if applicable)

NOTE: This operation is not licensed.

6.2 Seasonal Harvesting and Burning Restrictions

No.

6.3 Leases, Permits, Plots

	Occurs	Details	Conditions
Crown Leases	No		
Occupation Permits (grazing)	No		
Occupation Permits (apiary)	Yes	Sites 7, 8 & 15 (see contact details)	Harvesting should aim to minimise impact on any occupied apiary site. If the presence of hives is unduly constraining harvesting, the Harvesting Forester will consult with the permittee to ensure that the impact on harvesting is minimised.
Occupation Permits (other)	No		
PGP's	No		
Research Plots/Plus Trees	No		
Special Purpose Permits	Yes	Horse riding	Harvesting Forester to consult with permittee to ensure riding route does not impact harvesting.

6.4 Noise

There are residents in close proximity to an operation that are likely to be affected by noise near Sherwood Creek Road (as shown on the operational map). Site specific operational conditions to mitigate the impact of noise on residents must be developed by the SFO and contractor in conjunction with the residents. These conditions must be approved by the Harvesting Team Leader prior to operations commencing in this area.

6.5 Dust

There are residents in close proximity to an operation that are likely to be affected by dust off Murphy's Road (as shown on the operational map). Site specific operational conditions to mitigate the impact of dust on residents must be developed by the SFO and contractor and approved by the Harvesting Team Leader prior to operations commencing in this area.

6.6 Transmission Lines

- A transmission line traverses the northern end of Cpt502, as shown on the operational map.
- The transmission line is a 33Kv line, operated by Essential Energy.
- Appropriate safety procedures must be in place before any work is undertaken in proximity to this power line (see safety supplement, attached).

6.7 Critical Boundaries

Private Property: adjoins compartments 502, 503 & 504 to the north, and compartments 504 & 505 to the east. Only part of eastern boundary near Murphys Road is fenced. The remaining boundaries with PP may need to be precision surveyed. Refer to Estates Officer for assistance.

Road Reserve: Sherwood Creek Road is a Shire maintained road and dedicated road reserve. Forestry Corporation does not have timber rights to trees contained within the 20m wide road reserve. Refer to Estates Officer for assistance in locating the reserve boundaries.

Other critical boundaries: The FMZ 2 and adjacent Cpt 508 boundary is delineated by Palm Creek Road (see Condition 7 for boundaries of other FMZ zones). Compartment boundaries are delineated by

drainage lines, ridgelines and use road as boundary near sections of Anderson Mountain Road and Palm Creek Road.

- If there is any doubt about the location of a critical boundary, clarification must be sought from the Harvest Team Leader to determine the requirements for boundary mark-up.
- Harvesting must not impact on private property or any fence line.
- Any damage to a functional fence must be immediately repaired by the contractor.

6.8 Haulage Considerations

- Haulage is planned to access the Pacific Highway to the east and Glenreagh to the west via Sherwood Creek Road. This route is not to be used by B-doubles.
- School buses operate on Sherwood Creek Road. Contractors and hauliers should note school bus times on signage of this road and take care to avoid hauling on this road during these times.
- Additional signage should be used on Sherwood Creek Road to notify traffic of turning trucks.

6.9 IFOA Required Approval Of Forestry Activities

Nil approvals required.

- NOTE: Any additional crossings of Rainforest, HCVOG and Riparian Protection Zones require prior Regional Manager (or Office of the Environment and Heritage) approval before can be undertaken.
- It is the responsibility of the SFO to identify any additional areas that need to be crossed, the location of any such crossings without approval and to contact the Planning Unit to obtain the necessary approval.

6.10 Unmapped Rainforest

- Unmapped rainforest is to be identified and marked for retention in accordance with Forest Practices Circular 2005/02.

6.11 Endangered Ecological Communities

- Endangered Ecological Community (EEC) 'Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions' is potentially present within the compartment outside the mapped rainforest extent. Areas of this forest community should be identified as described in the FNSW EEC Identification Guide, and if present within the operation area, excluded from harvesting.

6.12 LiDAR Corrected Drainage

- The locations of drainage lines shown on the HPOM have been altered using information available from LiDAR. This should more accurately reflect the location of mapped drainage lines.
- Also shown are Indicative Drainage Features - these may be drainage lines, drainage depressions or neither. The location of these features is indicative only and their status should be confirmed in the field before the appropriate prescriptions (if any) are applied.

7. Forest Management Zoning Conditions

The following Forest Management Zones and conditions apply:

FMZ	Type	Notes
Zone 2	Special Management	High Conservation Old Growth (HCVOG). Reserves a section of Cpt 503 west of Palm Creek Road. There are also fragments adjacent to the HCVOG patch in the southern end of Cpt 502 across to Palm Creek Road which forms the eastern FMZ boundary starting just south of crossing C). These areas must be protected as marked on the map.

Zone 3A	Harvesting Protection	High Conservation Old Growth Forest (HCVOG), Rainforest and Needlebark Stringybark Forest Type Protection. These areas must be protected as marked on the map.
Zone 3B	Special prescription	Visual protection along eastern slopes off upper end of Andersons Mountain Road. Harvesting operations must aim at retaining the visual amenity of the forest viewed from afar as shown on map. <ul style="list-style-type: none"> • Minimise snig tracks within visible forest areas. • Retain understorey as much as practicable to provide a visual screening • Limit removals to a maximum of 50% of canopy.
Zone 4	General Management	Available for harvesting in accordance with the conditions of this harvest plan.
Zone 5	Hardwood Plantation	Small area in cpt 502 east of Plum Pudding Road (not shown on HPOM). Treat and manage as Zone 4 native forest, available for harvesting under this harvest plan.
Zone 7	Non forest Use	A FNSW Quarry is located along Andersons Mountain Road. This site can be used as a harvesting dump. All debris must be removed from the pit.
Zone 8	Further Assessment	<p>These areas are to be rezoned FMZ 4 with management by prescription (Standard Harvest Plan Conditions for Native Forest Operations in North East Region apply)</p> <p>These areas include:</p> <ul style="list-style-type: none"> • Modelled IHC 4 areas – assess actual slope in the field and exclude areas >30 degrees in accordance with condition 3 of schedule 4 of the EPL. • Mapped drainage features – identify in the field and apply EPL and TSL conditions based on actual field location, • modelled drainage features - modelled streams are to be inspected by the SFO. Appropriate prescriptions (Schedule 4 of the EPL) are to be applied if required and noted on the harvesting operational map. • Cleared/semi cleared forest types (eastern end of Cpt 504) on Forest Type Map have been assessed as forested areas during planning and are available for harvest.

8. Cultural Heritage Conditions

Aboriginal Cultural Heritage

No special conditions apply.

Non Aboriginal Cultural Heritage

Site named Andersons in Cpt 503. This site is contained within a non harvest area. No special conditions apply.

9. Flora and Fauna Conditions

Refer to Technical Guidance Note 2005-3A March 2005 for conditions (TSL Booklet)

Mark-up Conditions

The SFO must search for threatened species and mark-up the block as per Conditions 5.1 (General), and 5.2 (Koala) of the TSL. The Tree Marking code is shown in the Standard Harvest Plan Conditions for Native Forest Operations in North East Region.

Tree retention Conditions applying:

Prescription	TSL Condition
Hollow bearing and recruit trees	(Regrowth Zone) 5.6c,d
Greater Glider density > 1 per ha?	No – 6.9 d does not apply
Stag Retention	5.6e
Significant Food Resources	5.6f
Protection of Retained Trees	5.6g

Note: Swift Parrot/Regent Honeyeater default condition applies – retain 10 eucalypt feed trees/2ha (See Table 3)

Species Known or Likely to Occur

- Recent and reliable records exist within, or within close proximity of the compartments for the following threatened species. These species require species-specific or site-specific prescriptions if further records or habitat features are identified during mark-up.

SPECIES GROUP	COMMON NAME	SCIENTIFIC NAME
Amphibians	Giant Barred Frog	<i>Mixopheys iteratus</i>
Mammals	Spotted-tailed Quoll	<i>Dasyurus maculatus</i>
	Large Footed Myotis	<i>Myotis adversus</i>
	Yellow-bellied Glider	<i>Petaurus australis</i>
	Squirrel Glider	<i>Petaurus norfolcensis</i>
	Koala	<i>Phascolarctos cinereus</i>
	Long-nosed Potoroo	<i>Potorous tridactylus</i>
	Grey-headed Flying Fox	<i>Pteropus poliocephalus</i>
Birds	Glossy-black Cockatoo	<i>Calyptorhynchus lathami</i>
	Little Lorikeet	<i>Glossopsitta pusilla</i>
	Square-tailed Kite	<i>Lophoictinia isura</i>
	Powerful Owl	<i>Ninox strenua</i>
	Masked Owl	<i>Tyto novaehollandiae</i>
	Sooty Owl	<i>Tyto tenebricosa</i>
	Regent Honeyeater	<i>Xanthomyza phrygia</i>
Flora		<i>Allocasuarina defungens</i>
		<i>Angophora robur</i>
		<i>Boronia umbellata</i>
		<i>Marsdenia longiloba</i>
	Hairy Melichrus	<i>Melichrus hirsutus</i>
	Rusty Plum	<i>Niemeyera whitei</i>
	Milky Silkpod	<i>Parsonsia dorrigoensis</i>
	Moonee Quassia	<i>Quassia</i> sp. B (Moonee Creek)
	Stinking Lily	<i>Typhonium</i> sp. aff. <i>brownii</i>

Site-Specific Conditions, Exclusion Zones & Modified Harvest Areas

Table 1: General Prescriptions

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
Koala Mark-up Searches	5.2.2	Nil Records – continue search	These compartments contain preferred forest types, marking-up must be conducted at least 300m in advance of harvesting operations. In the event that a koala or scats (as noted in 5.2.2(i)) are found, a koala star search will be conducted to determine koala use area/s.
Tree Retention	5.6 (f)	3 GLBC feed trees in cpt C_503, 504	Retain and protect glossy black cockatoo feed trees.
	5.6 (g)	Nil Records – continue search	Retain all yellow-bellied glider and squirrel glider sap feed trees.
Burning	5.16	Threatened species have been recorded in these cpts.	The habitat requirement of threatened species must be taken into account when instigating hazard reduction burns to promote and maintain an understorey mosaic, significant areas of dense understorey vegetation and to minimise impact on large fallen logs.
Ground Habitat Protection	5.17 (a)	Nil Records – continue search	To the greatest extent practical, protect ground habitat from SFA. Ground habitat includes understorey vegetation, ground cover vegetation, leaf litter and fallen timber.
	5.17 (b)	CWRV + small mammals reptiles	Commercial Firewood collection is not permitted
	5.17 (d)	Larger CWRV	Firewood licences state that timber with hollows and/or over 40 cm diameter must not be collected or damaged.

Table 2: Species Specific Prescriptions (record and survey based)

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
Powerful Owl (<i>Ninox strenua</i>)	6.9	1 POWL record within 2km of cpt boundaries	Landscape approach as specified in 6.9.2 will be used. Condition 5.13 may be applicable to protect any roosts or nests found.

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
Masked Owl <i>(Tyto novaehollandiae)</i>		1 MOWL record within 2km of cpt boundaries	Search gully lines and heads of gullies for roost and nest sites.
Spotted-tailed Quoll <i>(Dasyurus maculatus)</i>	6.15	1 TIQU recorded within 200m of cpt boundaries	Search for maternal dens, permanent dens and latrine sites. If found, stop all SFA immediately and notify Harvest Planner and/or Ecologist.
Squirrel Glider <i>(Petaurus norfolcensis)</i>	6.16	1 SQGL recorded in cpt C_504	Exclusion zone of 8ha to be retained as mapped. Den records must be contained within exclusion zones.
Yellow-bellied Glider <i>(Petaurus australis)</i>	6.17	4 YEBG call detection records in and within 200m of cpt boundaries	Exclusion of 50m on dens. Retention of all sap feed trees. Within 100m of dens, sap feed trees and observation records, 15 mature / late mature feed trees must be retained. Within 200m of call detection site, 15 feed trees must be retained. Retained trees must be of same species as tree with den, feed marks or observation or should be species that shed their bark in long strips.
Large-footed Myotis <i>(Myotis macropus)</i>	6.21	1 LFMB recorded in cpt C_502	Exclusion zones of 30m on all dams and permanent water bodies of still water. Exclusion zones of 30m of all permanent streams within 100m of all records as mapped.
Marsdenia longiloba	6.23	1 MARS LONG records in cpt C_502	20m Exclusion Zones, all individuals
Allocasuarina defungens	6.25	3 ALLO DEFU records in cpts C_503	20m Exclusion Zone, 90% of individuals
Quassia sp. Moonee Creek		3 QUASSIA records in cpt C_502, 504	
Boronia umbellata	6.28	2	Exclusion zones are not required for this

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
		BORO UMBE records in and within 100m of cpt C_502	species, a species management plan has been implemented in Conglomerate SF.
<i>Niemeyera whitei</i>	6.27	5 NIEM WHIT records in cpts C_502	Harvesting is permitted in populated areas. This species is managed under a threatened flora monitoring program. No burning in areas with records

Table 3: Species Specific Prescriptions (default IFOA condition)

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
Swift Parrot (<i>Lathamus discolor</i>) Regent Honeyeater (<i>Xanthomyza phrygia</i>)	7. b) x	Nil records	Retain 10 eucalypt feed trees (which may include habitat and recruitment feed tree species) within every 2ha of NLA. All trees where species were observed feeding must be retained.

In addition to Forest Management Zone Exclusions, the following exclusion zones occur and are shown on the operational map

Riparian Protection (TSL Condition 5.7)
Ridge and Headwater Habitat (TSL Condition 5.8)

Boundary marking conditions for each exclusion zone are described in the tree marking code (see Standard Harvest Plan Conditions for Native Forest Harvesting in North East Region).

10. Fisheries Licence Conditions

Refer to Technical Guidance Note 2005- 02 March 2005 (Fisheries Licence Booklet)

Class 2 Aquatic Habitat (Eastern Freshwater Cod) has been identified as occurring within **Compartments 502 & 503 only**. Conditions of the Fisheries Licence apply.

Condition 7 of the Fisheries Licence applies.

Condition 7.9 of the Fisheries Licence apply to snig track crossings of mapped and unmapped drainage lines.

- Crossings must be approved and marked in the field prior to use
- Crossings may only be used where it is not reasonably practicable to use another route or site.
- Conditions 8.3 and 8.4 of the Fisheries Licence apply to crossings.

11. Soils and Water Protection Conditions

Refer to Technical Guidance Note 2005- 1C (Environment Protection Licence Booklet) & Standard Harvest Plan Conditions for Native Forest Harvesting in North East Region

Site-specific EPL conditions –

Elements	Conditions
Unmapped Drainage Lines	EPL applies for Cpts 502 & 503. Best Management Practices for UDL apply for Cpts 504 & 505.
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	2
Dispersible Soils	Yes for Cpts 504 & 505. See EPL Schedule 4 condition 69.
Mass Movement	NO
Log Dumps	Refer relevant conditions for IHL
Snig Tracks	Refer relevant conditions for IHL
Roads	See schedule 5 of EPL Booklet
Non-Haulage Roads	May be used for extraction within net harvest area or as otherwise approved. Note: Due to eroded nature of the non haulage section of Palm Creek Road this road must be assessed for suitability by the SFO <u>prior</u> to snig use. EPL applies. Remove debris on completion of operations.

12. Legal Conditions

This operation must comply with:

- Standard Harvest Plan Condition for Native Forest Operations in North East Region
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)
- State Forests of NSW Forest Practices Code - Part 2 Timber Harvesting in Native Forests February 1999 and Forest Practices Code Part 4 Forest Roads and Fire Trails (February 1999).
- Integrated Forestry Operations Approval issued under part 5B of the Forestry Act 2012 (IFOA) including the associated licences:
 - Threatened Species Conservation Licence (TSL) issued under the Threatened Species Conservation Act (1995)
 - Licence issued under section 220ZW of the Fisheries Management Act 1994 (FL)
- This operation is a non-scheduled operation under the Environment Protection Licence issued under section 55 of the Protection of the Environment Operations Act 1997. Roding and harvesting operations are not licenced. All EPL conditions will apply to harvesting and roding operations except for schedule 4 condition 6 relating to filter strips, protection zones and operational zones (**for Compartments 504 & 505 only**).

13. Attachments

- Attachment 1: Locality map
- Attachment 2: Harvest Plan Operational Map
- Attachment 3: Forest Type Map
- Attachment 4: Site Safety Plan prescribes describes safety requirements and Medical Emergency Evacuation Plan for this harvesting operation.
- Attachment 5: Roding plan prescribes roding requirements for this harvesting operation.

14. Operational Control

Contractor Team Leader to sign here

I acknowledge that I have received a copy of the plan documents and that I have been briefed on the conditions of the Plan. I understand the operational control requirements as outlined in the plan and take responsibility for the implementation of plan conditions as the principle controller of the operation.

I will brief any other operators not present at this briefing prior to them starting any work on site and ensure that risk assessment for the Safety Management Plan is completed for this area prior to operations commencing.

Name		Signature		
Position		Date	From	
Company			To	

Principal SFO to sign here (handovers between principal SFOs also to be recorded)

I acknowledge that I have received a copy of the plan documents and that I have been briefed on the conditions of the Plan. I understand the operational control requirements as outlined in the plan and take responsibility as the principle SFO.

Name		Signature		
Position		Date	From	
Company			To	

Name		Signature		
Position		Date	From	
Company			To	

Name		Signature		
Position		Date	From	
Company			To	

Name		Signature		
Position		Date	From	
Company			To	

15. Handover Briefing

I acknowledge that I have received a copy of the plan documents and that I have been briefed on the conditions of the Plan. I understand the operational control requirements as outlined in the plan.

<i>Company</i>	<i>Name</i>	<i>Signature</i>	<i>Date</i>

Induction Questionnaire

1. What silviculture will be applied and in which areas.
2. How will noise and dust issues be managed with local residents.
3. How is private property boundary marked.
4. How is FMZ 2 boundary defined.
5. What threatened flora measures apply.
6. What soil and water protection measures apply for the compartments.

Appendix 1 - SFO Notes

<i>State Forest</i>		<i>Compartments</i>	
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This diary should record general daily events, SFO movements, and operations visited which are not otherwise recorded in detail elsewhere.

<i>Date</i>	<i>Event</i>	<i>Initial</i>

FORESTRY CORPORATION of NEW SOUTH WALES
NORTH EAST REGION
ROAD WORKS PLAN

State Forest Conglomerate; Compartments 502-505

Certification

Prepared By: Harvest Planner	Flavio Bugno	Approved By: Regional Manager	Craig Busby
Signature		Signature	
Date	30/7/13	Date	7/8/13

Duration of Approval

The above approval is valid until 04 March 2023.

Contents

1. Cover Page
2. Operational Map
3. Costings
4. Roadworks Plan Text/Prescriptions
5. Locality Map
6. Safety Plan HAMEEP
7. Harvesting Plan
8. Harvesting Notification List (Operations Team Leader Only)

ROADING PLAN – Conglomerate State Forest, Compartments 502-505

1. Objectives

Roadworks are required to service harvesting operations within the above compartments.

The operational map shows the location of the proposed works.

Attachments: **Financial Analysis Spreadsheet** gives full details of costs, benefits, material & plant requirements

2. Specifications and Legal Conditions

This operation must comply with:

- Standard Harvest Plan Conditions for Native Forest Operations in North East Region
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)
- State Forests of NSW Forest Practices Code - Part 2 Timber Harvesting in Native Forests February 1999 and Forest Practices Code Part 4 Forest Roads and Fire Trails (February 1999).
- Integrated Forestry Operations Approval issued under part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended May 2003 including the associated licences:
- Threatened Species Conservation Licence (TSCL) issued under the Threatened Species Conservation Act (1995) as amended May 2003
- Licence issued under section 220ZW of the Fisheries Management Act 1994 (FL) as amended May 2003
- This operation is a non-scheduled operation under the Environment Protection Licence issued under section 55 of the Protection of the Environment Operations Act 1997. Roding and harvesting operations are not licensed. All EPL conditions will apply to harvesting and roading operations.
- Technical Guidance Notes for Roadworks.

3. Special Conditions

Feature	Conditions
Cultural Heritage	No
Threatened Species	See harvesting plan. Minimise disturbance within protection zones.
Dispersible Soils Hazard	Yes – Dispersible soils contained within areas of R3 soils. No crossings contained within these areas.
Mass Movement Hazard	No
Seasonality	No
Engineering Design	No

Environmental impacts ie Dust, Noise, Water, Visual	Yes – There are residents in close proximity to an operation that are likely to be affected by noise near Murphys Road (as shown on the operational map). Site specific operational conditions to mitigate the impact of noise on residents must be developed by the SFO and contractor in conjunction with the residents. These conditions must be approved by the Operations Team Leader prior to operations commencing in this area.
Haulage Standards	Yes
National Park	No
Private Property	No
Permit To Enter required	No
Shire Road	Sherwood Creek Road is a Shire maintained road and dedicated road reserve. Approval has been obtained to do roadworks for road exits onto Sherwood Road. See attached Shire approval letter for special conditions. Contact Council's Asset Inspector (see contact list) prior to works commencing to confirm site arrangements.
Quarries and Gravel Pits	No – Andersons Mountain Rd pit not proposed for use.
Underground/Overhead Utilities	No
Safety Issues (includes hazards, public use of roads)	Yes – Operations Team Leader to obtain a Traffic Control Plan (or alternate traffic control measures as decided) for road works on exits onto Sherwood Creek Road. See Hazard Assessment in the Site Safety Pack.

4. General Conditions

Remove trees in accordance with FNSW Safety Standard 1.3.9; and

Remove vegetation within 3m of the road prism **only where required** to maintain safe sight distance and passage of trucks.

Note: Clearing is generally permitted within 3m of the road prism for all roads. Ground disturbance and tree debris may impact outside this 3m either side of the road prism as is required to effect clearing within 3m of the road prism. Conditions 5, 6 and 47 Schedule 5 of the EPL must apply.

5. Works Schedule

See attached ipaq worksheets.

Road Maintenance/Upgrade

Road Name 504/3 Trail

Category Temporary

Location From Anderson Mountain Road to dump 19

Length (m) 200

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA	Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 200
		Repair surface	<input checked="" type="checkbox"/>	All road	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
	Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>		
		Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4	
Batter Repair/Upgrade		<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size:	Sets:
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 1		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 504/4 Trail

Category Temporary

Location From Sherwood Creek Road to dump 21

Length (m) 50

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	50m	Maintenance Length (m) 50
		Repair surface	<input type="checkbox"/>	NA	
		Crown/Crossfall	<input checked="" type="checkbox"/>	50m	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 1		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 504/5 Trail

Category Temporary

Location From Murphys Road to dump 26

Length (m) 350

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA	Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 350
		Repair surface	<input checked="" type="checkbox"/>	All road	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size:	Sets:
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 4		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 505/3 Trail

Category Temporary

Location From Anderson Mountain Road to dump 14

Length (m) 150

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input checked="" type="checkbox"/>	All road	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 150
		Repair surface	<input type="checkbox"/>	NA	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 2		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 505/4 Trail

Category Temporary

Location From Anderson Mountain Road to dump 13

Length (m) 100

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA	Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 100
		Repair surface	<input type="checkbox"/>	NA	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size:	Sets:
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 1		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Andersons Mountain Road

Category Permanent

Location From Sherwood Creek Road to Palm Creek Road

Length (m) 3000

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input type="checkbox"/>	NA	Maintenance Length (m) 3000
		Repair surface	<input checked="" type="checkbox"/>	Eroding sections	
		Crown/Crossfall	<input type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
	Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>		
		Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4	
Batter Repair/Upgrade		<input type="checkbox"/>	NA		
Drainage	Culverts	<input checked="" type="checkbox"/>	Clean existing	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Cpt 2/4 Road

Category Temporary

Location From Sherwood Creek Road to dump 1

Length (m) 350

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA	Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 350
		Repair surface	<input type="checkbox"/>	NA	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size:	Sets:
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 4		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Cunninghams Road

Category Temporary

Location From Anderson Mountain Road to dump 16

Length (m) 150

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA	Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 150
		Repair surface	<input checked="" type="checkbox"/>	All road	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size:	Sets:
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 2		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Murphys Road

Category Permanent

Location From boundary grid to dump 25

Length (m) 300

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input type="checkbox"/>	NA	Maintenance Length (m) 300
		Repair surface	<input checked="" type="checkbox"/>	Wet spot & eroding sections	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
	Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>		
		Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4	
Batter Repair/Upgrade		<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Palm Creek Road

Category Permanent

Location From Plum Pudding Rd to Andersons Mountain Rd Non haulage between dumps 11 & 12

Length (m) 3250

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info		Works >30 Slopes	<input type="checkbox"/>		
		Mass Movement	<input type="checkbox"/>		
		Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input type="checkbox"/>	NA	Maintenance Length (m) 3250
		Repair surface	<input checked="" type="checkbox"/>	NA	
		Crown/Crossfall	<input checked="" type="checkbox"/>	NA	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters		Remove trees >20 cm	<input type="checkbox"/>		
		Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4	
		Batter Repair/Upgrade	<input type="checkbox"/>	NA	
Drainage		Culverts	<input checked="" type="checkbox"/>	Clean existing Size: Sets:	
		Mitres	<input checked="" type="checkbox"/>		
		ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 12	
		Belts/Channels	<input type="checkbox"/>	Sets:	
		Drop Downs	<input type="checkbox"/>	Sets:	
		Silt Trapping	<input type="checkbox"/>		
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Plum Pudding Road

Category Permanent

Location From Sherwood Creek Road to Palm Creek Road

Length (m) 1300

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>		
	Mass Movement	<input type="checkbox"/>		
	Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Upgrade Length (m) 0 Upgrade Spoil Curve Widening NA
		Grade Lowering	<input type="checkbox"/>	NA
		Realignment	<input type="checkbox"/>	NA
	Maintenance	Reopening	<input type="checkbox"/>	NA
		Clear veg/debris	<input type="checkbox"/>	NA Maintenance Length (m) 1300
		Repair surface	<input type="checkbox"/>	NA
		Crown/Crossfall	<input checked="" type="checkbox"/>	Patch grade
Gravel	<input type="checkbox"/>	NA Gravel Length (m) 0		
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>		
	Remove trees <20 cm	<input type="checkbox"/>	In accordance with general condition 4	
	Batter Repair/Upgrade	<input type="checkbox"/>	NA	
Drainage	Culverts	<input checked="" type="checkbox"/>	Clean existing	Size: Sets:
	Mitres	<input checked="" type="checkbox"/>		
	ROD/Spoon	<input type="checkbox"/>	Sets:	
	Belts/Channels	<input type="checkbox"/>	Sets:	
	Drop Downs	<input type="checkbox"/>	Sets:	
	Silt Trapping	<input type="checkbox"/>		
Comments: Nil				

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 505/2 Trail

Category Temporary

Location From Anderson Mountain Road to dump 17

Length (m) 100

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 100
		Repair surface	<input type="checkbox"/>	NA	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 2		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: Nil					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

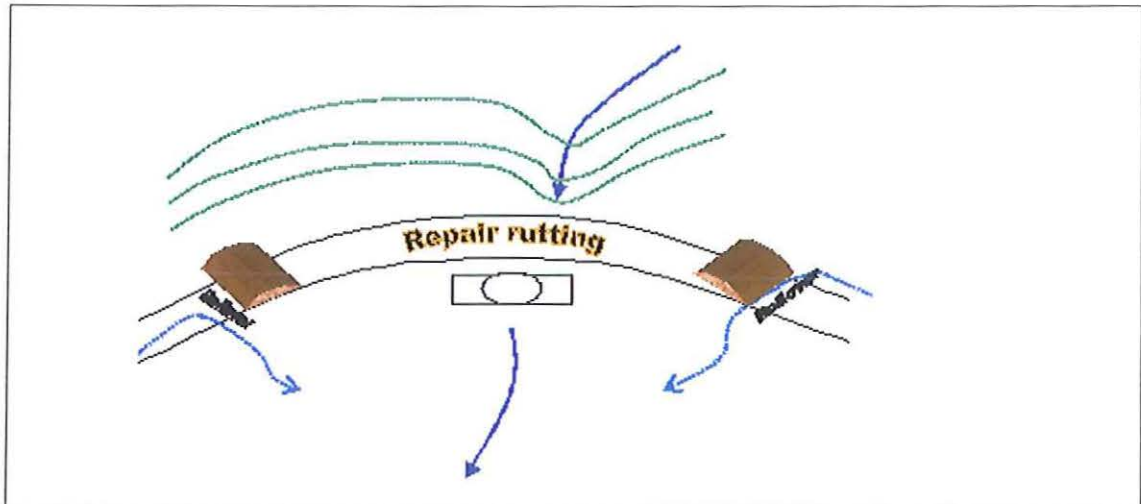
Crossing Works

Crossing Name A **Road Name** Palm Creek Road **Location** 0.7km

Drainage Feature Unmapped Drainage line **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	750	Stable (maintainance)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Repair natural surface	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Install Rollover
Inlet	Nil	5-30m Upstream Right	Install Rollover
Outlet	Nil	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: **Finish Date:** **Soil Stabilisation Date (must be within 5 days):**

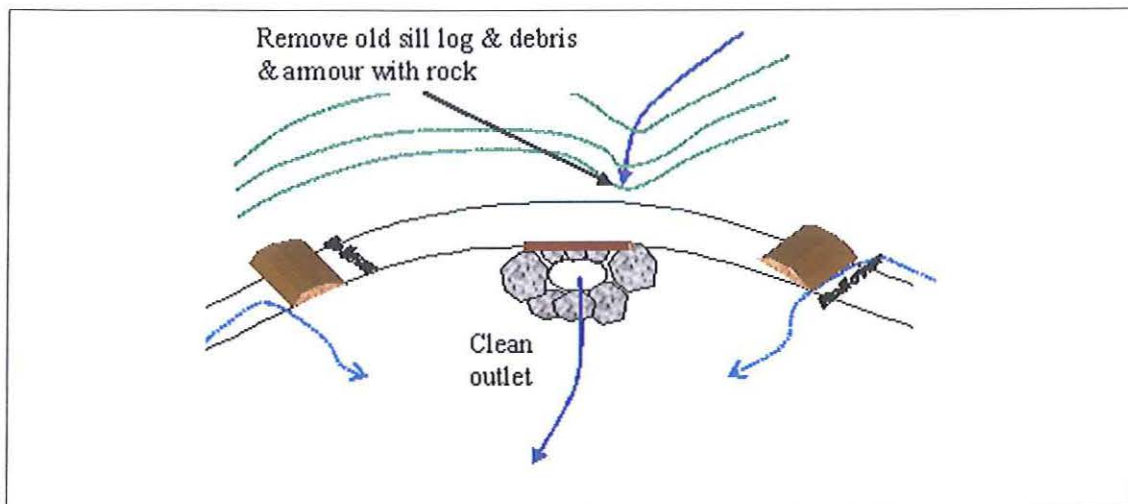
Date	Event	Initial

Crossing Name B **Road Name** Palm Creek Road **Location** 0.9km

Drainage Feature Unmapped Drainage line **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	750	Stable (maintainance)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Existing natural surface	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Reshape Existing Rollover
Inlet	Reshape & rock	5-30m Upstream Right	Existing Rollover
Outlet	Clean	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: **Finish Date:** **Soil Stabilisation Date (must be within 5 days):**

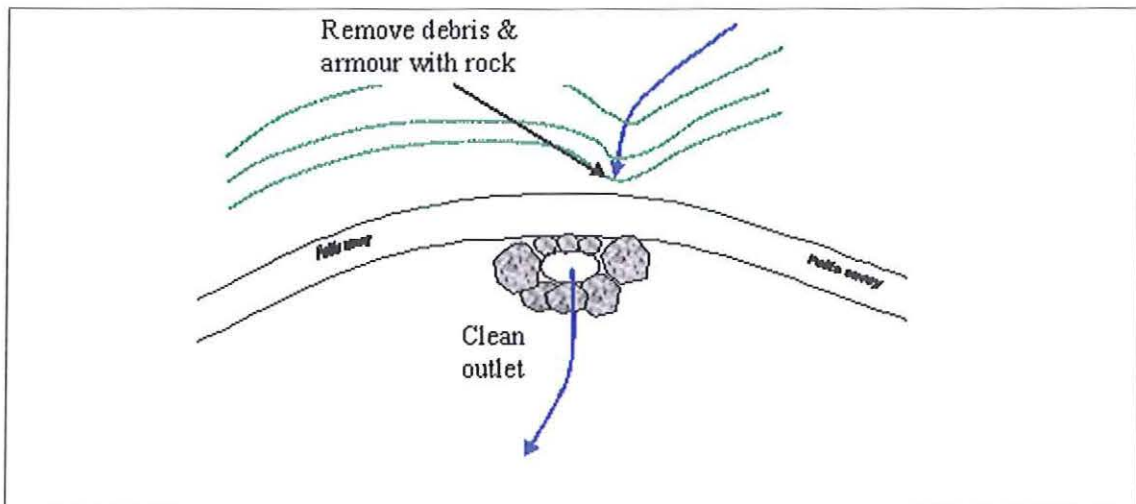
Date	Event	Initial

Crossing Name C **Road Name** Palm Creek Road **Location** 1.3km

Drainage Feature Depression **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	450	Stable (maintainance)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Existing natural surface	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Falls away
Inlet	Clean & rock	5-30m Upstream Right	Falls away
Outlet	Clean & repair headwall	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

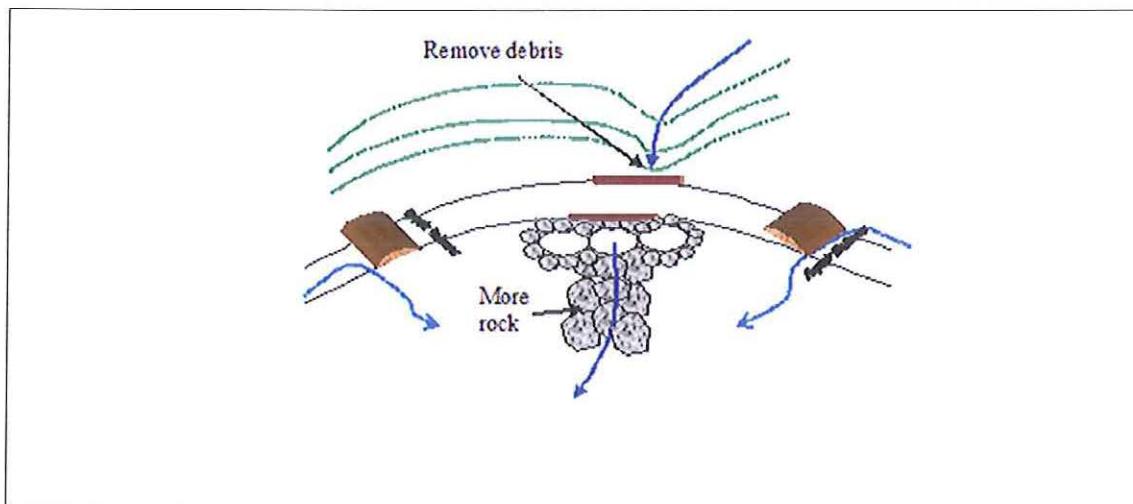
Date	Event	Initial

Crossing Name D **Road Name** Palm Creek Road **Location** 1.4km

Drainage Feature 2nd order DL **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	3 x 900	Stable (maintainance)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Existing natural surface	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Repair Existing Rollover
Inlet	Clean	5-30m Upstream Right	Repair Existing Rollover
Outlet	Armour with rock	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: **Finish Date:** **Soil Stabilisation Date (must be within 5 days):**

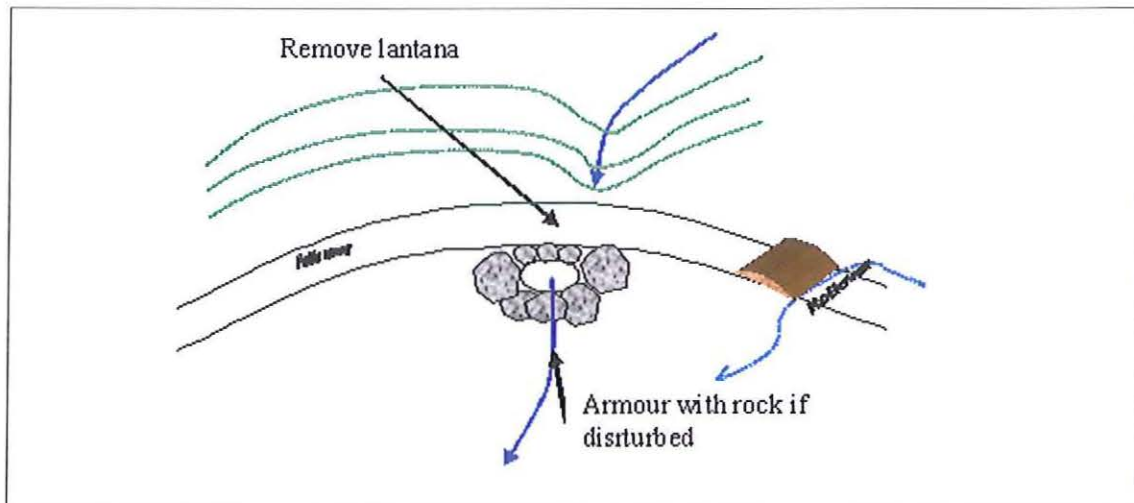
Date	Event	Initial

Crossing Name E **Road Name** Palm Creek Road **Location** 1.7km

Drainage Feature Unmapped Drainage line **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	900	Stable (maintainance)	Existing	NA	Permanent

Crossing Works		Approches and Road Drainage	
Pavement/Structure	Clear lantana. Maintain Existing natural surface.	Approches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Falls away
Inlet	Nil	5-30m Upstream Right	Install Rollover
Outlet	Armour with rock if required	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

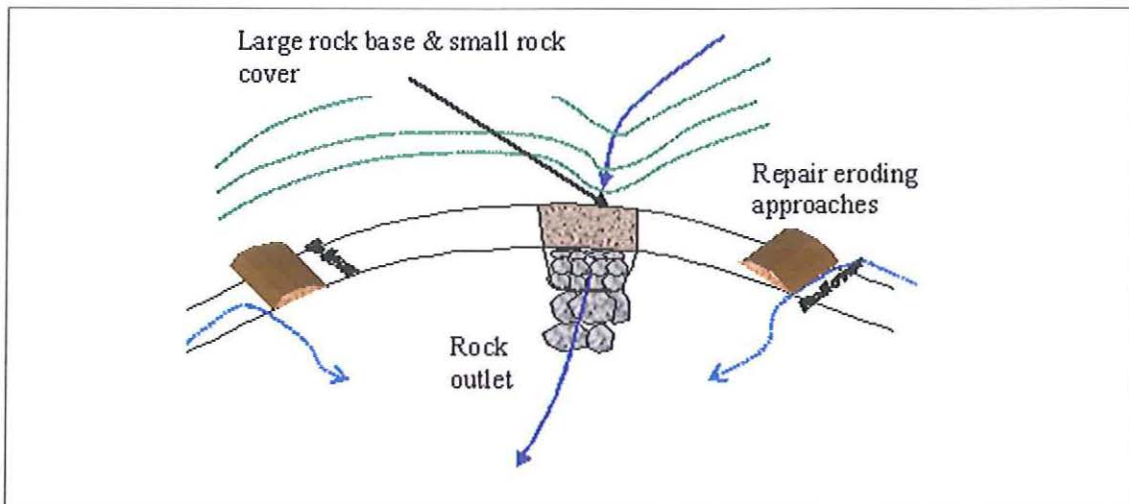
Date	Event	Initial

Crossing Name F **Road Name** 504/5 Trail **Location** 0.2km

Drainage Feature 1st order DL **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Causeway	NA	Unstable (upgrade)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Armour existing natural surface with rock	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Install Rollover
Inlet	Armour with rock	5-30m Upstream Right	Install Rollover
Outlet	Armour with rock	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: **Finish Date:** **Soil Stabilisation Date (must be within 5 days):**

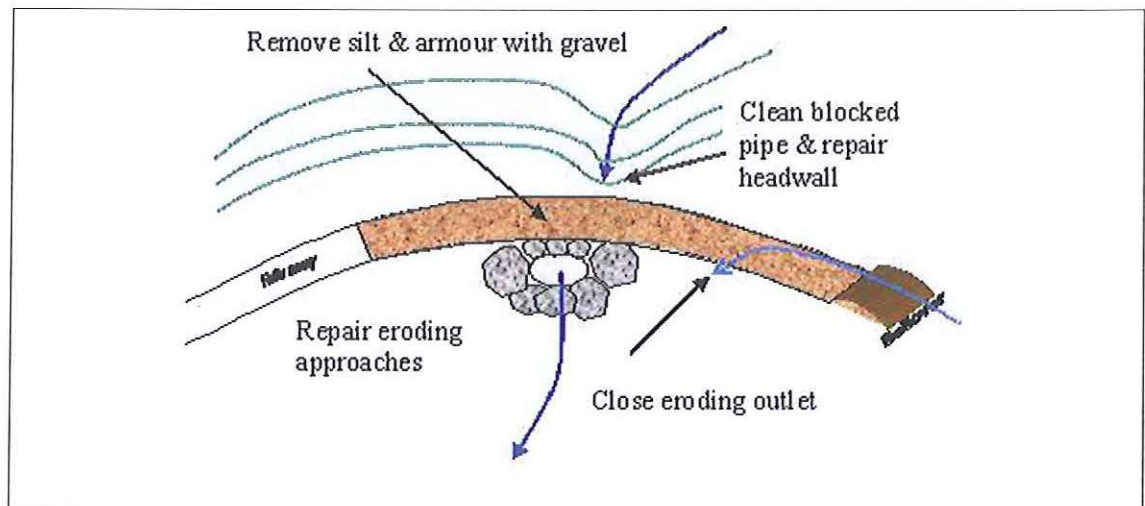
Date	Event	Initial

Crossing Name G **Road Name** Andersons Mountain **Location** 1.9km from Sherwood Ck Rd

Drainage Feature Unmapped Drainage line **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	750	Unstable (upgrade)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Repair existing natural surface & gravel	Approaches	Armour with gravel
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Falls away
Inlet	Clean & repair headwall	5-30m Upstream Right	Install Rollover
Outlet	Existing rock headwall	Practices where no 5-30	Armour approach with gravel
Stabilisation	Nil	OutletControl	Block old eroding outlet
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

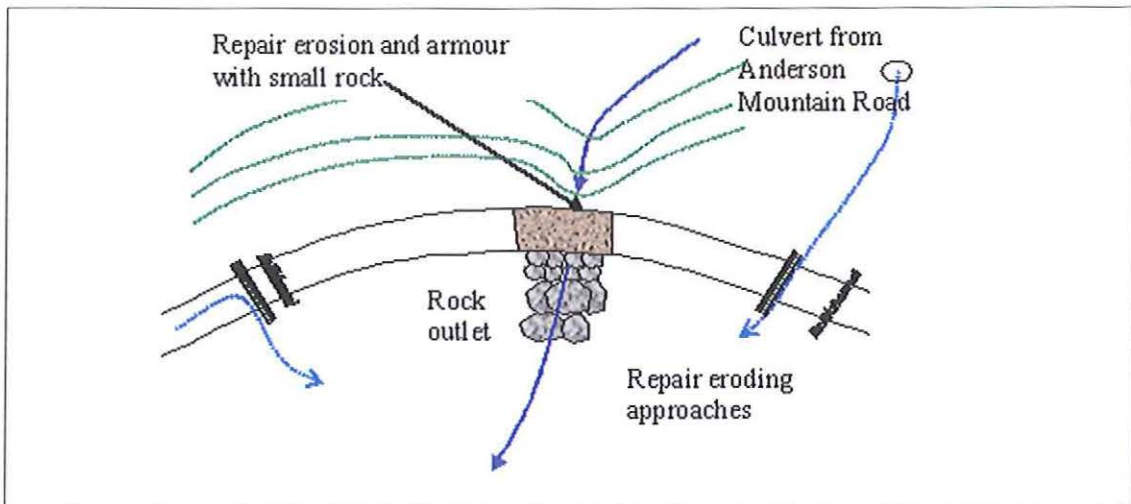
Date	Event	Initial

Crossing Name H **Road Name** 504/3 Trail **Location** 0.1km

Drainage Feature Unmapped Drainage line **Stream Permanency** Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Causeway	NA	Unstable (upgrade)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Armour existing natural surface with rock	Approaches	Repair erosion
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Install Belt/channel
Inlet	Repair & armour with rock	5-30m Upstream Right	Install Belt/channel
Outlet	Armour with rock if required	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural vegetation
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: **Finish Date:** **Soil Stabilisation Date (must be within 5 days):**

Date	Event	Initial

6. Operational Control

Roading Supervisor to sign here

I acknowledge that I have received a copy of the plan documents and that I have been briefed on the conditions of the Plan. I understand the operational control requirements as outlined in the plan and take responsibility for the implementation of plan conditions as the principle controller of the operation.

I will brief any other operators not present at this briefing prior to them starting any work on site and ensure that risk assessment for the Safety Management Plan is completed for this area prior to operations commencing

Name:		Signature:	
Position:		Date:	From
Company:			To

Name:		Signature:	
Position:		Date:	From
Company:			To

Name:		Signature:	
Position:		Date:	From
Company:			To

Name:		Signature:	
Position:		Date:	From
Company:			To

Name:		Signature:	
Position:		Date:	From
Company:			To

7. Handover Briefing

I acknowledge that I have received a copy of the plan documents and that I have been briefed on the conditions of the Plan. I understand the operational control requirements as outlined in the plan.

Position - Company	Name	Signature	Date

Induction Questionnaire

- 1 What dispersible prescription applies?
- 2 Which residents may be affected by dust and noise?
- 3 Is Sherwood Creek Road a State Forest road?
- 4 What prescriptions apply for exits onto this road?

COFFS HARBOUR CITY COUNCIL



Our Ref: 3334616

4 March 2013

Flavio Bugno
Senior Planner
State Forests
FlavioB@sf.nsw.gov.au

Dear Flavio

Application to Undertake Works on Public Road Sherwood Creek Road

Reference is made to your application received to undertake works on a public road with the following details:

Location:	Sherwood Creek Road
Commencement:	As soon as practicable.
Duration:	2 to 3 months.
Activity:	Carry out roadworks on Sherwood Creek Road to entry points into Conglomerate State Forest to enable access by log trucks for logging activities.

I am pleased to advise you that your application for the above works has been approved and this letter constitutes your permit for occupancy at this location. Please ensure you keep a copy of this permit on site at all times.

Further to the conditions of your application it is requested that the following special conditions are adhered to:

1. Pedestrian access is to be maintained at all times.
2. Contact Council's Asset Inspector, Mr Trevor Campbell prior to the works commencing to confirm site arrangements.
3. Council may direct alterations to the site arrangements in the interest of public safety. These alterations shall be carried out under the direction of Council's Asset Inspector.

For further information please contact Council's Asset Inspector, Trevor Campbell on 6648 4503 or 0438 471 989.

Yours faithfully

Terry Thorn
Manager Asset Maintenance (Acting)

TFT:tmw