

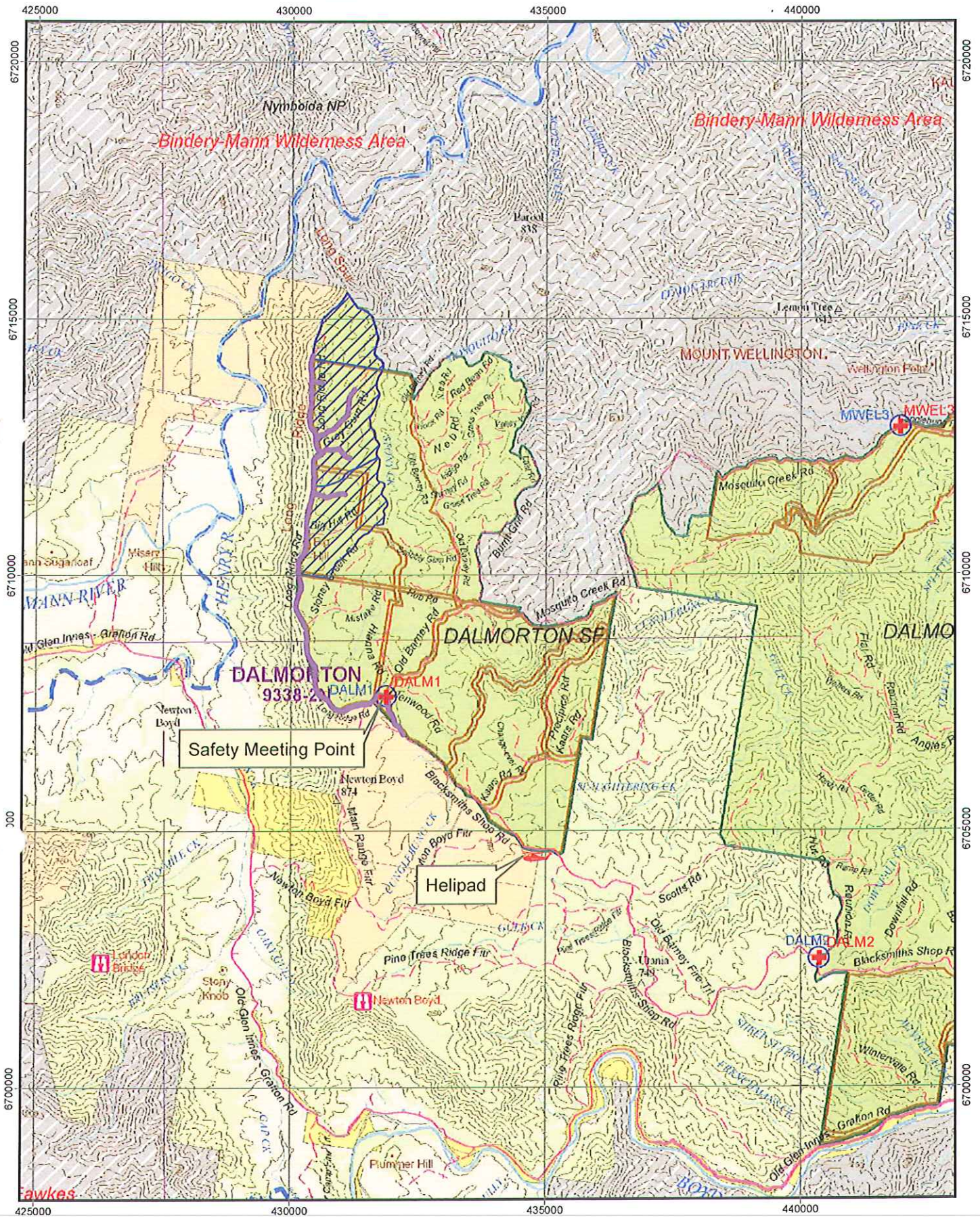


Map Sheets: 1:25000 Dalmorton 9338 - 2N
 Mt Wellington 9338-1S
 1:100000 Newton Boyd 9338
 Scale: 1:100,000

North East Region - Grafton MA
 Locality Map

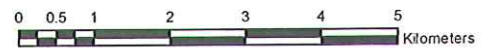
Compartments 560, 561 and 570

Dalmorton State Forest



MAP FEATURES

- Subject Area
- Emergency Meeting Point (Safety Point)
- Helicopter Landing Point
- State Forest
- 1:25000 Map Sheet
- 1:100000 Map Sheet
- National Park Estate
- Haulage Roads



Prepared by: Flavio Bugno
 Date: 9/08/2013



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MAP FEATURES

- State Forest Boundary
- Compartments Boundary
- 1 Km Grid
- 10 / 100 m Contour
- State Forest
- National Park Estate
- Gates
- Fenceline
- Drainage

ROADS

- All Weather, Unsealed
- Dry Weather, Unsealed
- Non Haulage Roads
- Short Term Haulage Roads

DUMPS & CROSSINGS

- Temporary Dry
- Temporary Wet

HARVESTING PRESCRIPTIONS

- General Management (FMZ 4)
- Areas for Further Assessment (FMZ 8)
- Non viable
- Indicative Low Volume Lidar Strata (SFO to assess for viability)
- Crown Road Reserve (harvestable adjacent to NHA)

FOREST MANAGEMENT PROTECTION

- Harvesting Protection (FMZ 3A)
- High Conservation Value Old Growth
- Rock
- Rock buffer (20m from edge of rock)

RIDGE & HEADWATER HABITAT

- 80m wide exclusion

HARVESTING PROTECTION (TSL, EPL & FL)

- Riparian (IHC 1 & 2)
 - 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
 - Slopes > 30 degrees

Non Aboriginal Heritage

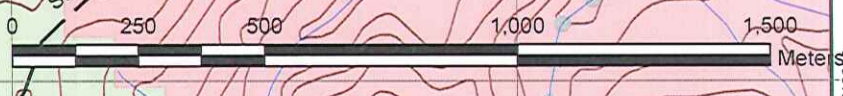
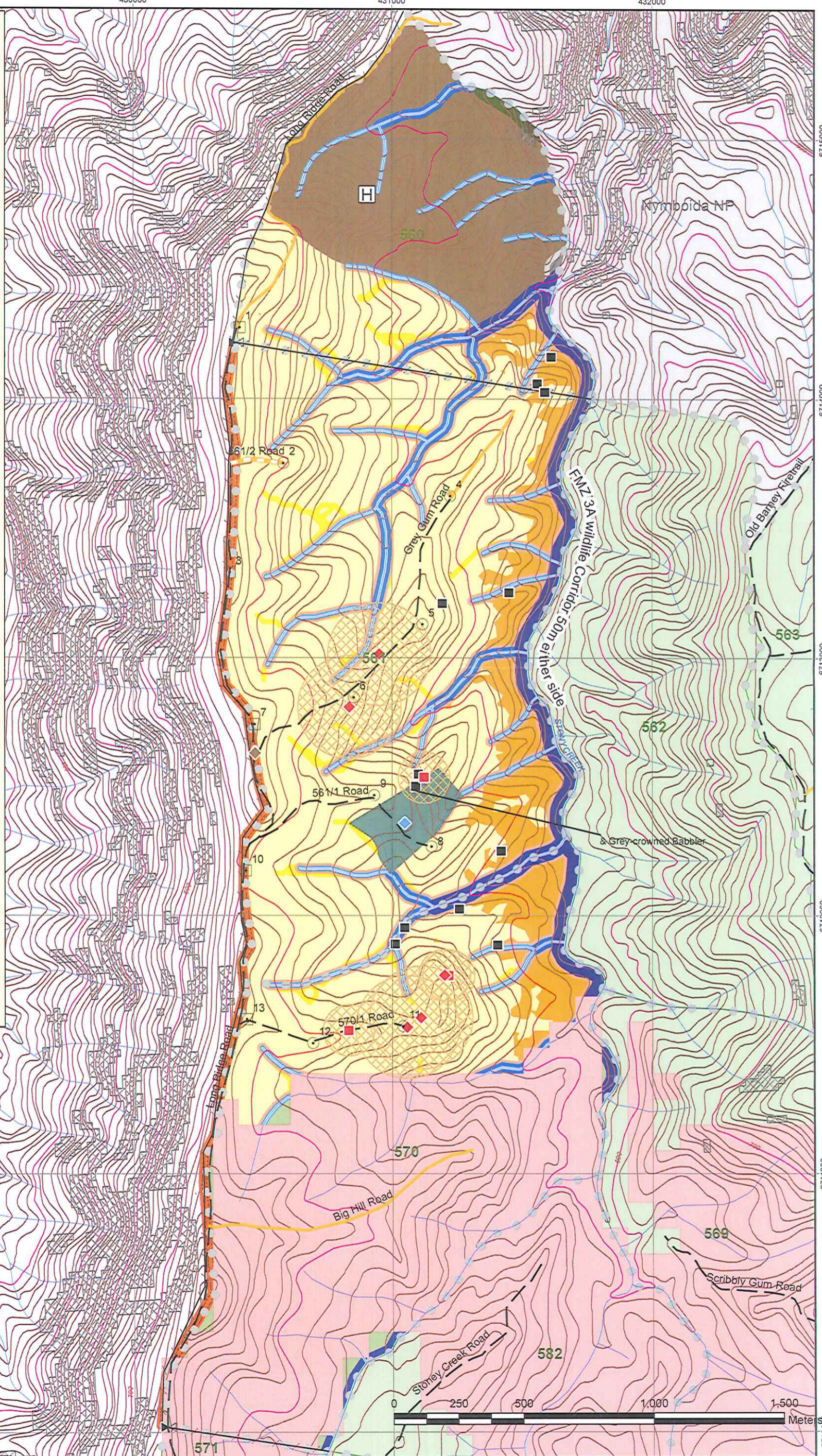
- Non Aboriginal Heritage

TSL PRESCRIPTIONS / ZONES

- YBG Tree Retention Zone (100/200m radius)
- Squirrel Glider Protection

THREATENED SPECIES LOCATIONS

- Southern Brown Bandicoot
- Glossy Black-Cockatoo
- Glossy Black-Cockatoo feed tree
- Yellow-bellied Glider
- Yellow-bellied Glider feed tree
- Squirrel Glider



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Map Sheets: Mount Wellington 9338-1S

North East Region - Grafton MA Harvest Plan Forest Type Map Compartments 560, 561 & 570 Dalmorton State Forest

Scale 1:15,000



Prepared by... Flavio Bugno
Date: 9/08/13

MAP FEATURES

- State Forest Boundary
- Compartments Boundary
- 1 Km Grid
- 10 / 100 m Contour
- State Forest
- National Park Estate

ROADS

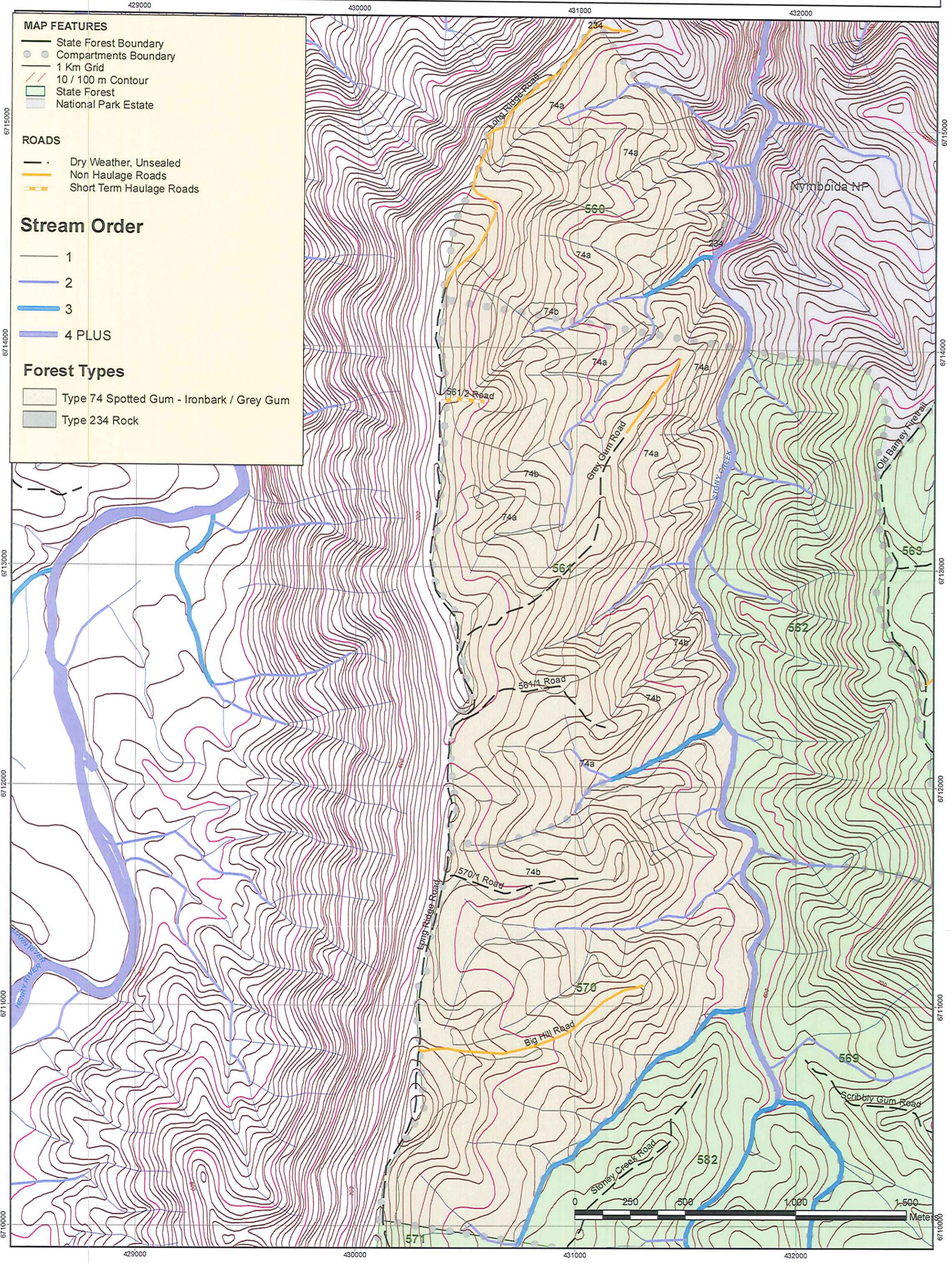
- Dry Weather, Unsealed
- Non Haulage Roads
- Short Term Haulage Roads

Stream Order

- 1
- 2
- 3
- 4 PLUS

Forest Types

- Type 74 Spotted Gum - Ironbark / Grey Gum
- Type 234 Rock



FORESTRY CORPORATION of NEW SOUTH WALES

NORTH EAST REGION


HARVESTING PLAN No. 10436

Dalmorton State Forest - Compartments 560, 561 & 570

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		
Flavio Bugno		Date: 9/8/13


Endorsed by:

Harvest Planning Team Leader		
		Date:

Endorsed by:

Regional Planning Manager		
M. HOWAT		Date: 09/08/13

Approved by:

Regional Manager		
Craig Busby		Date: 29/8/13

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

2. Description of Proposal

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

Other

	Proposed	Details
Roadworks	Yes	Roadworks Plan (attached) approved 22/03/13
Post harvest Burning	Yes	Plan to be prepared separately
Rehabilitation	No	

3. Area Identification and Yield Estimates

Region	North East Region
Management Area	Grafton
State Forest	Dalmorton
State Forest No.	814
Pricing area	Grafton Inland
Other Tenure Details (if applicable) For Lease & other non State Forest tenure (Lot/DP)	Crown Lease No.1938/18 exists over Cpts 561 & 570 Cpt 560 is SF only

	Cpt 560	Cpt 561	Cpt 570	Total
Gross Area (ha)	127	267	233	627
Net Harvest Area (ha)	39	230	67	336
Estimated Yield (m3/ha)	8.8	18.2	22.6	18.0 (Ave)
Volume (m3) All Product	344	4,185	1,514	6,043

Products	Total (m3)
High Quality Large	1,223
High Quality Small	1,113
Veneer	0
Poles	356
Low Quality	3,351
Total	6,043

4. Forest Description

Forest Type: (See Forest type map)

- Spotted Gum type dominates in the southern 2/3rds of the net harvest area gradually replaced by Mixed Dry Coastal Hardwood in the north. Types 74a/b in the northern third are more accurately typed as Type 62 composed of Grey Gum, White Mahogany, New England Blackbutt, Tallowwood, Brush Box and Grey Box.

Harvest History:

- Only recorded harvests in all compartments were 1987 to 1990 carried out using STS silviculture. Dry Coastal hardwood types have only been lightly harvested.

Stand Description:

Mixed Age SG/Dry Coastal Types consisting of:

- Sapling: 0-20cm dbhob regrowth from last harvest makes <30% of stand for SG types and <10% for Dry Coastal types.
- Minimal Pole advanced growth (<10%) from earlier harvests.
- Mostly Mature/Over Mature 50-80cm dbhob component (60-80%).

Site Quality

- Generally moderate site quality with site height 20-30m in Spotted Gum types and better on easterly and southerly aspects.
- Poorer site quality in Dry Coastal types. Progressively poorer to the north and on the lower slopes (Lidar Low Volume shown on Operational Map).

Stand health

- Very good on easterly and southerly aspects.
- Poor, many defective stems remain standing in Dry Coastal types.

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 Spotted Gum / Dry Coastal	Poor quality Dry Coastal types Shown on map as Non viable#
Treatment – current ops	Moderate STS	Exclude from harvesting
Est. % of NHA	83%	17%
Expected BA Removal (%)	35%	nil
Future Ops 15-20 years	STS	Non commercial

Low Volume (Lidar) shown on Operational Map to be assessed by SFO for viability.

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 non viable areas, non harvest areas and tree retention across the tract.

The Operational Map shows the indicative areas for silvicultural treatment as outlined above.

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	Yes	Cn L 1938/18 – Cpts 561 & 570	The harvesting forester must contact crown leaseholders prior to harvesting commencing within the lease area. Harvesting must not impact on any fence line. Any damage to a functional fence must be immediately repaired by the contractor. Fence openings are required along the northern boundary fence to access adjacent sections of Cpt 560. The harvesting forester must consult with Lessee prior to opening fence. Temporary gates must be erected if there is stock in the area and the fence line must be returned to its original state on completion of operations.
Occupation Permits (grazing)	No		
Occupation Permits (apiary)	No		
Occupation Permits (other)	No		
PGP's	No		
Research Plots/Plus Trees	No		
Special Purpose Permits	No		

6.4 Critical Boundaries

Private Property: adjoins the compartments to the west. The PP boundary is marked by fence on western side of Long Ridge Road.

Reserve Road: There is a 20m wide crown road reserve strip (shown in red on Operational Map) which contains Long Ridge Road that runs north to the Cpt 561 northern boundary (gateway south of dump 1). The SF boundary is 20m from the fenced PP boundary fence line up to the Cpt 561 northern boundary and then runs along the PP fence in Cpt 560. Harvesting is permitted within the road reserve strip. See attached Crown Lands approval conditions especially conditions 10 & 12 about notifying Crown Lands and adjoining landholders.

National Park: Nymboida NP adjoins the compartments to the north and east of Cpt 560. The NP boundary is formed by a straight line from Long Ridge Road down to a second order stream. The boundary then runs alongside the second order and then cuts across in two straight lines to Stony Creek

which marks the rest of the park boundary. The NP is separated from the harvest area by Non Viable area.

Other critical boundaries: Crown lease boundaries are delineated by fenceline. The remaining Compartment boundaries are formed by drainage lines.

- 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 National Park or any fence line (except as specified in Condition 6.3).
- Any damage to a functional fence must be immediately repaired by the contractor.

6.5 Haulage Considerations

- Haulage is planned to access the Old Glenn Innes Road via Long Ridge Road, Blacksmiths Shop Road and Cunglebung Road. This route is not suitable for B-doubles.
- Additional signage should be used on Blacksmiths Shop Road and Long Ridge Road to notify traffic of turning trucks.

6.6 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 NPWS) 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.

7. Forest Management Zoning Conditions

The following Forest Management Zones and conditions apply:

FMZ	Type	Notes
Zone 3A	Harvesting Protection	FMZ wildlife corridor 50m either side of Stony Creek. High Conservation Old Growth (HCVOG) and Rocky outcrop plus buffer (contained within non viable section). Protects pockets of forest isolated due to other protection zones. These areas must be protected as marked on the map.
Zone 4	General Management	Available for harvesting in accordance with the conditions of this harvest plan.
Zone 8	Further Assessment	<ul style="list-style-type: none"> • 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>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.

8. Cultural Heritage Conditions

Aboriginal Cultural Heritage

No special conditions apply.

Non Aboriginal Cultural Heritage

One site contained within the non viable 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	(Non-Regrowth Zone) 5.6 a,b
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

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
Mammals	Rufous Bettong	<i>Aepyprymnus rufescens</i>
	Yellow-bellied Glider	<i>Petaurus australis</i>
	Squirrel Glider	<i>Petaurus norfolcensis</i>
	Grey-headed Flying Fox	<i>Pteropus poliocephalus</i>
Birds	Glossy-black Cockatoo	<i>Calyptorhynchus lathami</i>
	Brown Treecreeper	<i>Climacteris picumnus picumnus</i>
	Masked Owl	<i>Tyto novaehollandiae</i>
	Sooty Owl	<i>Tyto tenebricosa</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)	12 GLBC feed trees	Retain and protect glossy black cockatoo feed trees.
	5.6 (g)	3 YEBG/SQGL feed trees	Retain all yellow-bellied glider and squirrel glider sap feed trees.
Burning	5.16	Woodland bird records and other 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)	Woodland Bird records	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
Grey-crowned Babbler (<i>Pomatostomus temporalis temporalis</i>)	5.13 (i)	1 GCBA	Retain trees with nests, minimise damage to nest trees by directional felling. Hazard reduction work must consider the species ecology, promote and maintain understorey mosaic, minimize impact on fallen logs >40 cm diameter. To the greatest extent practicable protect ground habitat from specified forestry activities. This includes understorey vegetation, ground cover vegetation, thick
	5.16	record in cpt G_561	
	5.17 (a)		

TSL Condition	TSL Condition No.	Record Details	Prescription Summary
			leaf litter and fallen timber.
Squirrel Glider (<i>Petaurus norfolcensis</i>)	6.16	1 SQGL record in cpt G_561	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	1 YEBG observation record in cpt G_570 4 YEBG call detection records in cpts 3 YEBG v-notch tree records in cpts	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.

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.
Large-footed Myotis (<i>Myotis macropus</i>)	7. b) xv	Nil records	Exclusion zones of 30m on all dams, permanent waterbodies and permanent streams in cpt.

Table 4: Other Ecological Considerations

Issue, Feature or Record	Presence	Assessment and Management Recommendations
Endangered ecological Communities	The desktop review and the pre-harvest surveys did not trigger or indicate the likely occurrences of EEC's in the planning area of cpts G_560, 561, 570. Continue search within NLA.	Identify and mark in field to exclude specified forestry activities. Contact FNSW ecology unit for guidance if required.

In addition to Forest Management Zone Exclusions, the following exclusion zones occur and are shown on the operational map. Boundary marking conditions for each exclusion zone are described on the HPOM and in the tree marking code.

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

Boundary marking conditions for each exclusion zone are described on the HPOM and 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 1 Aquatic Habitat (Eastern Freshwater Cod) has been identified as occurring within these compartments. Conditions of the Fisheries Licence apply.

Condition 7 of the Fisheries Licence applies.

- Condition 7 (General Aquatic Habitat Protection Conditions) of the Fisheries Licence applies.
- Condition 7.9 of the Fisheries Licence applies 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. A pre-logging aquatic habitat assessment of the site of each proposed crossing where in-stream maintenance is required must be completed prior to use. Consultation with the harvest planner is required prior to construction and use of such 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 - no UDL harvesting permitted
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	1
Dispersible Soils	NO
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. 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 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.

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

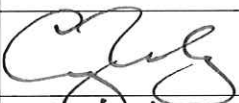
- 1. What silviculture will be applied and in which areas?
- 2. How is private property boundary marked?
- 3. How are fences to be treated?
- 4. How is FMZ 2 boundary defined?
- 5. What is the protection zone shown between dumps 8 & 9?
- 6. What measures are required within the YBG tree retention areas?

FORESTS NEW SOUTH WALES – NORTH EAST REGION

ROAD WORKS PLAN

Dalmorton State Forest; Compartments 560, 571 & 570

Certification

Prepared By: Harvest Planner	Flavio Bugno	Approved By: Regional Manager	Craig Busby
Signature		Signature	
Date	21/11/13	Date	22/1/13

1. Objectives

Roadworks are required to service native harvesting operations within the above compartments. These compartments are scheduled for harvest in late 2012. Long Ridge Road will also be used for haulage for the Compartments 560, 561 & 570 to the north.

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. Note: only road maintenance activities are permitted until ecology surveys are completed and harvesting plan authorised.
Dispersible Soils Hazard	No
Mass Movement Hazard	No
Seasonality	No
Engineering Design	No
Environmental impacts ie Dust, Noise, Water, Visual	No
Haulage Standards	Yes
National Park	No, Nymboida NP to the north of Cpt 560 (at 6km mark from southern boundary gate). No roadworks required near NP.
Private Property	No
Permit To Enter required	NA
Crown Land	There is a 20m wide crown road reserve strip (shown in red on Operational Map) which contains Long Ridge Road that runs north to the Cpt 561 northern boundary (gateway south of dump 1). The SF boundary is 20m from the fenced PP boundary fence line up to the Cpt 561 northern boundary and then runs along the PP fence in Cpt 560. Roadworks are permitted within the road reserve strip. See attached Crown Lands approval conditions especially conditions 10 & 12 about notifying Crown Lands and adjoining landholders.
Quarries and Gravel Pits	No
Underground/Overhead Utilities	No
Safety Issues (includes hazards, public use of roads)	Yes – 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

Attached ipaq worksheets.

Road Maintenance/Upgrade

Road Name 561/1 Road

Category Temporary

Location From Long Ridge Road to dump 8

Length (m) 800

		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 checked="" type="checkbox"/>	Location Between dumps Formation Width (m) 3.7m Curve Widening Upgrade Length (m) 300 Upgrade Spoil incorporated into road surface
		Grade Lowering	<input type="checkbox"/>	
		Realignment	<input checked="" type="checkbox"/>	Between dumps 8 & 9
	Maintenance	Reopening	<input checked="" type="checkbox"/>	Between dumps 8 & 9
		Clear veg/debris	<input checked="" type="checkbox"/>	All road Maintenance Length (m) 500
		Repair surface	<input checked="" type="checkbox"/>	Between dumps 8 & 9
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road, reduce outfall between dumps
Gravel	<input type="checkbox"/>		Gravel Length (m)	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 4	
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4	
	Batter Repair/Upgrade	<input type="checkbox"/>		
Drainage	Culverts	<input type="checkbox"/>		Size: Sets:
	Mitres	<input checked="" type="checkbox"/>		
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 3	
	Belts/Channels	<input type="checkbox"/>	Sets:	
	Drop Downs	<input type="checkbox"/>	Sets:	
	Silt Trapping	<input type="checkbox"/>		
Comments:				

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 561/2 Road

Category Short term haulage

Location From Long Ridge Road to dump 2

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 Upgrade Length (m) 0 Formation Width (m) Upgrade Spoil Curve Widening	
		Grade Lowering	<input type="checkbox"/>		
		Realignment	<input type="checkbox"/>		
		Reopening	<input type="checkbox"/>		
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 200
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
Gravel		<input type="checkbox"/>		Gravel Length (m)	
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>			
Drainage	Culverts	<input type="checkbox"/>		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:					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 570/1 Road

Category Temporary

Location From Long Ridge Road to dump 11

Length (m) 650

		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 Formation Width (m) Curve Widening Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>		
		Realignment	<input type="checkbox"/>		
		Reopening	<input type="checkbox"/>		
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 650
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>		Gravel Length (m)
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>			
Drainage	Culverts	<input type="checkbox"/>		Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 3		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments:					

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

Date	Event	Initial

Road Name Grey Gum Road

Category Permanent

Location From Long Ridge Road to dump 4

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 Formation Width (m) Curve Widening	Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>		
		Realignment	<input type="checkbox"/>		
		Reopening	<input type="checkbox"/>		
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 1300
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>	Gravel Length (m)	
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>			
Drainage	Culverts	<input type="checkbox"/>	Size: Sets:		
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 10		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments:					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Long Ridge Road

Category Permanent

Location From southern boundary gate to dump 1

Length (m) 4400

		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 Formation Width (m) Curve Widening	Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>			
		Realignment	<input type="checkbox"/>			
		Reopening	<input type="checkbox"/>			
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 4400	
		Repair surface	<input type="checkbox"/>			
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road		
		Gravel	<input checked="" type="checkbox"/>	Wet spots	Gravel Length (m)	
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4			
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4			
	Batter Repair/Upgrade	<input type="checkbox"/>				
Drainage	Culverts	<input type="checkbox"/>		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:						

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

6. Pre-Operational Briefing

I acknowledge that I have received a copy of the Roadworks/Harvesting Plan for Compartments 560, 561 & 570 in Dalmorton State Forest and that I have been briefed on the conditions of the Plan. I understand the supervision and operational control requirements as outlined in the plan.

Position	Name	Signature	Date

Road Maintenance/Upgrade

Road Name 561/1 Road

Category Temporary

Location From Long Ridge Road to dump 8

Length (m) 800

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 checked="" type="checkbox"/> Location Between dumps 8 & 9 Formation Width (m) 3.7m Curve Widening Upgrade Length (m) 300 Upgrade Spoil incorporated into road surface
		Grade Lowering	<input type="checkbox"/>
		Realignment	<input checked="" type="checkbox"/> Between dumps 8 & 9
		Reopening	<input checked="" type="checkbox"/> Between dumps 8 & 9
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/> All road Maintenance Length (m) 500
		Repair surface	<input checked="" type="checkbox"/> Between dumps 8 & 9
		Crown/Crossfall	<input checked="" type="checkbox"/> All road, reduce outfall between dumps
Gravel		<input type="checkbox"/> Gravel Length (m)	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/> Remove vegetation only in accordance with general condition 4	
	Remove trees <20 cm	<input checked="" type="checkbox"/> In accordance with general condition 4	
	Batter Repair/Upgrade	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/> Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>	
	ROD/Spoon	<input checked="" type="checkbox"/> Sets: 3	
	Belts/Channels	<input type="checkbox"/> Sets:	
	Drop Downs	<input type="checkbox"/> Sets:	
	Silt Trapping	<input type="checkbox"/>	
Comments:			

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 561/2 Road

Category Short term haulage

Location From Long Ridge Road to dump 2

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 Upgrade Length (m) 0 Formation Width (m) Upgrade Spoil Curve Widening
		Grade Lowering	<input type="checkbox"/>	
		Realignment	<input type="checkbox"/>	
	Maintenance	Reopening	<input type="checkbox"/>	
		Clear veg/debris	<input checked="" type="checkbox"/>	All road Maintenance Length (m) 200
		Repair surface	<input type="checkbox"/>	
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road
Gravel	<input type="checkbox"/>		Gravel Length (m)	
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>		Remove vegetation only in accordance with general condition 4
	Remove trees <20 cm	<input checked="" type="checkbox"/>		In accordance with general condition 4
	Batter Repair/Upgrade	<input type="checkbox"/>		
Drainage	Culverts	<input type="checkbox"/>		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:				

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 570/1 Road

Category Temporary

Location From Long Ridge Road to dump 11

Length (m) 650

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 Upgrade Length (m) 0 Formation Width (m) Upgrade Spoil Curve Widening	
		Grade Lowering	<input type="checkbox"/>		
		Realignment	<input type="checkbox"/>		
		Reopening	<input type="checkbox"/>		
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 650
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>		Gravel Length (m)
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>			
Drainage	Culverts	<input type="checkbox"/>		Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 3		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments:					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Grey Gum Road

Category Permanent

Location From Long Ridge Road to dump 4

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 Formation Width (m) Curve Widening Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>		
		Realignment	<input type="checkbox"/>		
		Reopening	<input type="checkbox"/>		
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 1300
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input type="checkbox"/>		Gravel Length (m)
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>			
Drainage	Culverts	<input type="checkbox"/>		Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 10		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments:					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Long Ridge Road

Category Permanent

Location From southern boundary gate to dump 1

Length (m) 4400

		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 Upgrade Length (m) 0 Formation Width (m) Upgrade Spoil Curve Widening	
		Grade Lowering	<input type="checkbox"/>		
		Realignment	<input type="checkbox"/>		
		Reopening	<input type="checkbox"/>		
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	All road	Maintenance Length (m) 4400
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>	All road	
		Gravel	<input checked="" type="checkbox"/>	Wet spots	Gravel Length (m)
Roadside/Batters	Remove trees >20 cm	<input type="checkbox"/>	Remove vegetation only in accordance with general condition 4		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 4		
	Batter Repair/Upgrade	<input type="checkbox"/>			
Drainage	Culverts	<input type="checkbox"/>		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:					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial