Clearing Desktop Report – Short Form



I. I KOI OSAL DETAILS						
Proposal Name:	M038 – Narrogin Kondinin – SLK 76.6 – 80.10 - Widening – Tranche 5					
Region/Directorate:	Wheatbelt					
Local Government Authority:	Shire of Wickepin					
Road/Bridge Name and No:	M038 - Narrogin Kondinin Roa	ad				
Proposal Location (SLK):	SLK 76.6 – 80.10	SLK 76.6 – 80.10				
TRIM Link to Spatial Data:	D22#630079					
EOS No:	2641					
Expected Proposal Start Date:	January 2023					
Project No:	30000432 Task Code: 19135					
LISC TRIM No:	D22#183501 HRA TRIM No: D22#183495					
2. PURPOSE OF CLEARING						

As part of Main Roads Low-Cost Shoulder Sealing (LCSS) Initiative, M038 Narrogin Kondinin SLK 75.6 to 80.10 has been selected to receive Tranche 5 funding to undertake these works:

- The sealing of stabilised existing shoulders to 8.6 m, on the existing formation. Existing seal is 6.6m on 8.5-9m formation. Therefore, the formation width is not increased.
- Established native trees require removal to facilitate the works.

METHODOLOGY

1 PROPOSAL DETAILS

- In-situ stabilisation of existing pavement with cut line at 1.9m from centre of road.
- Top up existing pavement with gravel if required.
- Clear the drain as part of the work. Re-shape where required.
- Stabilise (1.5% Hydrated Lime or 1% LH cement) to the depth of 150 mm. Compact and Trim.
- Seal –widening only S45R 14/7 double seal bitumen seal.

Culvert Extension

Extend one culvert at SLK 77.77. The environmental footprint is shown in this document below under the Heading Culvert Extension. Note that native vegetation will be impacted.

The LISC (D22#183501) confirmed that a CDR Short Form was an appropriate assessment approach under CPS818.

3. ALTERNATIVES TO CLEARING

The Proposal involves the clearing of seven trees along a 4.5 km stretch of Narrogin Kondinin road. The trees that have been selected for removal are considered to occur too close to the road and may pose a safety hazard to motorists. Accordingly, there is limited scope to alter the clearing.

All seven trees proposed to be cleared are in a Degraded to Completely degraded condition.

4. MEASURES TO AVOID, MINIMISE, MITIGATE AND MANAGE PROPOSAL CLEARING IMPACTS

There are limited measures to avoid, mitigate clearing impacts, due to how close the trees are to the existing road.

The trees will be removed progressively using an Elevated Work Platform (or similar), which can be used to manoeuvre and minimise the impact of surrounding understorey vegetation or other felling techniques can be used. If possible, the trees will be mulched with chip being used as mulch on adjacent land if there is no understorey vegetation in the proposed mulching spread area. Otherwise, the tree/chipped mulch will be removed offsite.

5. APPROVED POLICES AND PLANNING INSTRUMENTS

The clearing of native vegetation in Western Australia is regulated under the *Environmental Protection Act 1986* (EP Act) and the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (Clearing Regulations).

In addition to the matters considered in accordance with section 510 of the EP Act (see Section 1.3), Main Roads has also had regard to the following documents.

Environmental Protection Policies:

- Environmental Protection (Peel Inlet Harvey Estuary) Policy 1992
- Environmental Protection (Western Swamp Tortoise Habitat) Policy 2011

Other legislation of relevance for assessment of clearing and planning/other matters:

- Biodiversity Conservation Act 2016 (WA) (BC Act)
- Conservation and Land Management Act 1984 (WA) (CALM Act)
- Country Areas Water Supply Act 1947 (WA) (CAWS Act)
- Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act)
- Planning and Development Act 2005 (WA) (P&D Act)
- Soil and Land Conservation Act 1945 (WA)
- *Rights in Water and Irrigation Act* 1914 (WA) (RIWI Act)
- Aboriginal Heritage Act 1972 (WA) (AHA)
- Town Planning and Development Act (WA)1928

Relevant other policies and guidance documents:

- Environmental Offsets Policy (Government of Western Australia, 2011)
- A guide to the assessment of applications to clear native vegetation (DEC, December 2014)
- Procedure: Native vegetation clearing permits (DWER, October 2019)
- Environmental Offsets Guidelines (Government of Western Australia, August 2014)
- Technical guidance Flora and Vegetation Surveys for Environmental Impact Assessment (EPA, 2016)
- Technical guidance Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment (EPA, 2020)
- Approved conservation advice under section 266B of the EPBC Act for threatened flora/fauna/vegetation communities
- Approved Recovery Plans for Threatened species
- EPBC Act Referral guidelines for the three Threatened black cockatoo species
- Strategic advice EPA

6. CLEARING AREA			
Clearing Area (ha):	0.033 ha	No. Trees Cleared:	Seven

		Tree No.	SLK	Species			
		1	77.18	Eucalyptus long	gicornis		
		2	77.81	Acacia saligna			
		3	77.91	E. loxophleba s	ubsp. <i>lo</i> >	kophelba	
Species Name:		4	79.51	E. loxophleba s	ubsp. <i>lo</i> >	kophelba	
		5	79.53	E. loxophleba s	ubsp. <i>lo</i> >	kophelba	
		6	79.54	E. loxophleba s	ubsp. <i>lo</i> >	kophelba	
		7	79.99	E. wandoo			
		Tree No.	Easting	J	Northin	ng	
		1	117. 58	59558	32. 781	5431	
		2	117. 59	26416	32. 781	5337	
Easting and Northing:		3	117. 59	38350	32. 7815138		
		4 117. 6108973		08973	32. 7813654		
		5	117. 61	09347	32. 781	3665	
		6	117. 61	09610	32. 7813	3725	
		7	117. 61	57553	32. 781	5053	
7. EXISTING ENVIRONMENT A	ND SI	TE INFORM	ATION				
Site Vegetation Description/Association:	VA: 1023 - York gum, salmon gum etc. <i>Eucalyptus loxophleba</i> , <i>E. salmonophloid</i> Goldfields; gimlet, redwood etc. <i>E. salubris</i> , <i>E. oleosa</i> . Riverine; rivergum <i>E</i> <i>camaldulensis</i> . Tropical; messmate, woolybush						
Site Vegetation Condition:	Comp	letely degrae	ded				
Pre-European Extent Remaining (%):				ne current extents ond LGA level.	of the re	maining Vegetation for	
				Hectares Remain	ning	% Remaining	
	Statewide		172,875 ha		10.79 %		
	LGA (Wickepin)		18,444 ha		10.5 %		
8. ASSESSMENT OF PROPOSA	LAGA	INST CLEA	RING P	RINCIPLES			
Is vegetation to be cleared at variance with:	Justification or Evidence:						

Principle (a) – Native vegetation should not be cleared if it comprises a high level of biological diversity. It is proposed to clear seven trees (one *Acacia saligna*, one *E. longicornis*, one *E. Wandoo* and four *E. loxophleba* subsp. *loxophelba*), located in the maintenance zone, with no understorey.

According to Main Roads GIS WA Herbarium layer, the closest records were:

Tree No.	SLK	Flora / Distance from tree
1	77.18	Austroparmelina macrospora (P3), NW
2	77.81	Austroparmelina macrospora (P3), NW
3	77.91	Austroparmelina macrospora (P3), NW
4	79.51	Austroparmelina macrospora (P3), NW
5	79.53	Austroparmelina macrospora (P3), NW
6	79.54	Austroparmelina macrospora (P3), NW
7	79.99	Austroparmelina macrospora (P3), NW

According to Main Roads GIS Rare Flora layer, the closest records were:

SLK	Flora / Distance from tree
77.18	<i>Eucalyptus loxophleba</i> x <i>wandoo</i> (P4), north
77.81	<i>Eucalyptus loxophleba</i> x <i>wandoo</i> (P4), north
77.91	Eucalyptus loxophleba x wandoo (P4), north
79.51	<i>Eucalyptus loxophleba</i> x <i>wandoo</i> (P4), north
79.53	Eucalyptus loxophleba x wandoo (P4), north
79.54	<i>Eucalyptus loxophleba</i> x <i>wandoo</i> (P4), north
79.99	Eucalyptus loxophleba x wandoo (P4), north
	77.18 77.81 77.91 79.51 79.53 79.54

According to Main Roads GIS Threatened Fauna layer, the closest records were:

Tree No.	SLK	Flora / Distance from tree			
1	77.18	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), (in 2000)			
2	77.81	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), (in 2000)			
3	77.91	Red-tailed Phascogale (Phascogale calura) (E (in 2000)			
4	79.51	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), (in 2000)			
5	79.53	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), (in 2000)			
6	79.54	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), (in 2000)			
7	79.99	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), (in 2000)			
The Proposal area does not lie within any breeding or roosting habitat. The					

The Proposal area does not lie within any breeding or roosting habitat. The closest known breeding habitat is situated 20km east of the Proposal Area. The following reference advises Red morrell, York gum and Wandoo is used for roosting, feeding and nesting –

			va.gov.au/images/documents/plants-animals/threatened- ants used by Carnabys black cockatoo 20110415.pdf		
	An inspection of the seven trees on 15 June 2022 by Wheatbelt Environmental Officers did not identify any hollows suitable for Black Cockatoos. Given that the trees are in Degraded to Completely degraded condition and no evidence of use observed, it is unlikely that they provide an important habitat for black cockatoos. The removal of the seven trees is therefore considered unlikely to impact black cockatoos.				
	According to the Main Roads TEC/PEC layer (Figure 4), Tree 4, 5, 6 and 7 are located within the mapped buffer area of the Eucalypt Woodlands of the Western Australian (WA) Wheatbelt; a Threatened Ecological Community (TEC) listed as Critically Endangered under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and a State Priority Ecological Community (PEC) (Priority 3). Based on the Main Roads Factsheet (D19#584174) none of the Proposal trees meet the requirements to be a TEC/PEC as the widths are less than 5m and they do not meet the criteria specified in Category D due to being in Completely degraded condition.				
	-		nd the proposed clearing is not at variance to this Principle. Roads GIS Threatened Fauna layer, the closest records were:		
Principle (b) – Native vegetation should not be cleared if it	Tree No.	SLK	Flora / Distance from tree		
comprises the whole or a part of, or is necessary for the	1	77.18	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 3.12km		
maintenance of, a significant habitat for fauna indigenous to	2	77.81	(in 2000) Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 3.65km		
Western Australia.	3	77.91	(in 2000) Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 3.84km		
	4	79.51	(in 2000) Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 5.44km (in 2000)		
	5	79.53	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 5.46km (in 2000)		
	6	79.54	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 5.46km (in 2000)		
	7	79.99	Red-tailed Phascogale (<i>Phascogale calura</i>) (E), 5.93km (in 2000)		
	closest knor following re roosting, fe <u>https://www species/carr</u> An inspectio Officers did trees are in observed, it	wn breed eference eding ar <u>v.dpaw.v</u> nabys/Pl on of the not ider Degrade : is unlik	does not lie within any breeding or roosting habitat. The ding habitat is situated 20km east of the Proposal Area. The advises Red morrell, York gum and Wandoo is used for nd nesting – va.gov.au/images/documents/plants-animals/threatened- ants used by Carnabys black cockatoo 20110415.pdf e seven trees on 15 June 2022 by Wheatbelt Environmental ntify any hollows suitable for black cockatoos. Given that the ed to Completely degraded condition and no evidence of use ely that they provide important habitat for black cockatoos. seven trees is therefore considered unlikely to impact black		

	As the Proposal area does not contain mature Rock Sheoak, it does not of suitable habitat for Red-tailed Phascogale.						
	As the road reserve is narrow where the trees are located, and there are minimal to no shrubs and dense understory vegetation, noting the condition was either Degraded to Completely degraded condition, the potential for ground dwelling fauna is unlikely.						
		to Wester	y unlikely to constitute significant habitat for fauna n Australia. Based on the above, the proposed clearing is Principle.				
Principle (c) – Native vegetation	According to	o Main Ro	ads GIS WA Herbarium layer, the closest records were:				
should not be cleared if it includes, or is necessary for the continued	Tree No.	SLK	Flora / Distance from tree				
existence of, rare flora.	1	77.18	Austroparmelina macrospora (P3), NW				
	2	77.81	Austroparmelina macrospora (P3), NW				
	3	77.91	Austroparmelina macrospora (P3), NW				
	4	79.51	Austroparmelina macrospora (P3), NW				
	5	79.53	Austroparmelina macrospora (P3), NW				
	6	79.54	Austroparmelina macrospora (P3), NW				
	7	79.99	Austroparmelina macrospora (P3), NW				
	The Wheatbelt Region Special Environmental Areas Register (D17#828731) not indicate that any Priority flora occurs within the Proposal area maintena zone along M038 SLK 75.6 to 80.10. Based on the above, the proposed clearing is not at variance to this Princip						
Principle (d) – Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a threatened ecological community.	the mapped buffer area of the Eucalypt Woodlands of the Western Australian (WA) Wheatbelt; a Threatened Ecological Community (TEC) listed as Critically						
	Based on the	e above, t	he proposed clearing is not at variance to this Principle.				
Principle (e) – Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been	iation of Beard (1976) has been mapped over the Survey ssociation 1023 described as a Medium woodland; York & salmon gum.						
extensively cleared.		•	ent remaining of this Vegetation Association is 172,875 ha le level with 18,444 ha (10.5%) at a LGA (Wickepin) level.				
	The removal of seven large trees (approximately 0.03 ha) in a Degra Completely Degraded condition within the maintenance zone, equa approximately 0.0001% of this vegetation association at a LGA level, and likely to represent vegetation that is significant as a remnant.						
	Based on the	e above, t	he proposed clearing is not at variance to this Principle.				

Principle (f) – Native vegetation	According to	Main Roa	ads GIS Watercourse layer, the closest records were:		
should not be cleared if it is growing in, or in association with,	Tree No.	SLK	Watercourse / distance		
an environment associated with a watercourse or wetland.	1	77.18	minor non-perennial 490m southeast		
watercourse of wetland.	2	77.81	minor non-perennial 30m west		
	3	77.91	minor non-perennial 75m northwest		
	4	79.51	minor non-perennial 277m west		
	5	79.53	minor non-perennial 279m southeast		
	6	79.54	minor non-perennial 280m southeast		
	7	79.99	minor non-perennial 369m south		
	are <i>E. loxophl</i> tree species, r The closest m nearest tree (the species o growing in an	eba subs none are napped w Tree 3). B of the tre n environi	<i>longicornis</i> ; Tree 2 is an <i>Acacia saligna</i> , and Trees 3 to 6 p. <i>loxophelba</i> and Tree 7 is an <i>E. wandoo</i> . Of these seven classified as riparian vegetation. retland is an un-named perennial lake, 9.3km north of the based on the distance to the nearest mapped wetland and ees present, the trees proposed to be cleared are not ment associated with a watercourse or wetland. The proposed clearing is not at variance to this Principle.		
Principle (g) – Native vegetation	DPIRD mapping indicates that the areas where the trees are located have:				
should not be cleared if the clearing of the vegetation is likely	• 0% OF VERV HIGH LO EXTREME WATER EROSION NAZARO				
to cause appreciable land		0	to extreme wind erosion hazard (Trees 1-3 and 7) h to extreme wind erosion hazard (Trees 4-6)		
degradation.		-	poor to poor site drainage potential		
	0% of moderate salinity hazard				
	determine th Proposal Area low (beige) pr or excavation The removal o is unlikely to the land wher	e likeliho a. The AS robability below th of the sev cause ap re the veg	esource Information System (ASRIS) has been used to bod of Acid Sulphate Soils (ASS) occurring within the SRIS database (accessed 21-Jul-2022) indicates there is a of ASS occurring within the proposal area. No dewatering he water table is proposed. Then trees in a Degraded to Completely degraded condition oppreciable land degradation, especially as the majority of getation is located will be covered with road infrastructure. The proposed clearing is not at variance to this Principle		
Principle (h) – Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.	Reserve, cons Reserve (Class 7.3km from th Given the dis	servation s 'A') betv ne closest stance to	ds GIS shapefiles layers indicates that the closest Nature areas or Bush Forever Sites is the Malyalling Nature veen SLK 22.0 and 22.80 on Kirk Rock Road, approximately t Trees (Tree 2 and 3). the sensitive receptor, no impacts to Malyalling Nature conservation reserve is anticipated.		

	Based on the above, the proposed clearing is not at variance to this Principle.			
Principle (i) – Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.	The trees are not located within surface water or groundwater proclaimed areas under the Rights in Water and Irrigation Act 1914 (RIWI Act). In addition, the trees are not within the Public Drinking Water Source Area or catchment proclaimed under the Country Areas Water Supply Act 1947 (CAWS Act). According to the Main Roads GIS Water course layer, the closest records were:			
	Tree No.	SLK	Watercourse / distance	
	1	77.18	minor non-perennial 490m southeast	
	2	77.81	minor non-perennial 30m west	
	3	77.91	minor non-perennial 75m northwest	
	4	79.51	minor non-perennial 277m west	
	5	79.53	minor non-perennial 279m southeast	
	6	79.54	minor non-perennial 280m southeast	
	7	79.99	minor non-perennial 369m south	
Principle (j) – Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.	 quality due to this minor clearing. Based on the above, the proposed clearing is not at variance to this Principle. Removing the seven trees in a Degraded to Completely degraded condition over a 4.5km stretch of highway in unlikely to cause, or exacerbate, the incidence or intensity of flooding. DPIRD mapping indicates that the area where the trees are located have: <3% moderate to high flood hazard (Trees 1-6) 3-10% moderate to high flood hazard (Trees 1-6) <3% moderate to high materlogging hazard (Trees 1-6) 			
	 3-10% moderate to high waterlogging hazard (Tree 7) A review of ArcGIS shapefiles has confirmed that the proposed works will not disturb or interrupt any natural drainage and surface run-off patterns. Based on the above, the proposed clearing is not at variance to this Principle. 			
Methodology Used and References:	(http://www.a: DPIRD mappir Main Roads G	sris.csiro. ng (<u>https</u> IS Shape earing a	rea/trees: D22#771055	
Completed By:				
Job Title Environmental O	fficer			

Date

Once all sections are completed, send the form to CRSP for review and endorsement.

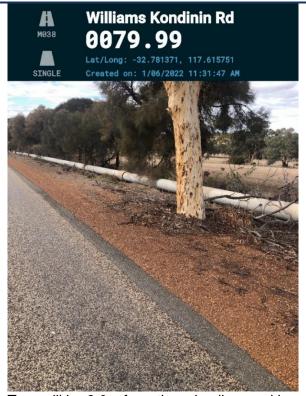
DECISION ON CLEARING ASSESSMENT						
Clearing Assessment	ENDORSED 🖂 REFUSED 🗆					
Comments	Seven trees spread across a 4.5 km stretch of road and are in Degraded to Completed degraded condition. Justification has been provided to demonstrate the removal of these trees will result in a low impact and is not at variance with the clearing principles.					
Job Title	Senior Environment Officer					
Date	11/08/2022					

15-Jun-2022 Photos









Tree will be 2.0m from the edge line marking Tree is 5.5m from CL **Remove – Tree in clear zone RHS**

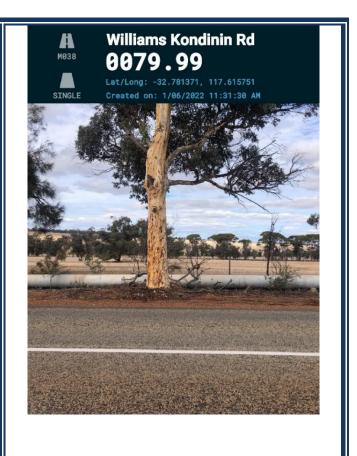




Figure 1a: Tree 1

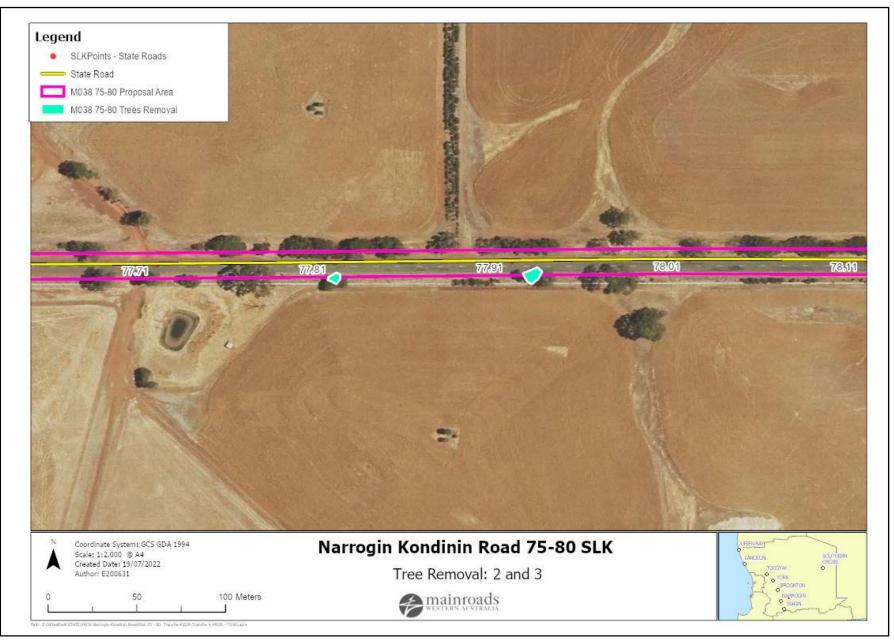


Figure 1b: Tree 2 and 3

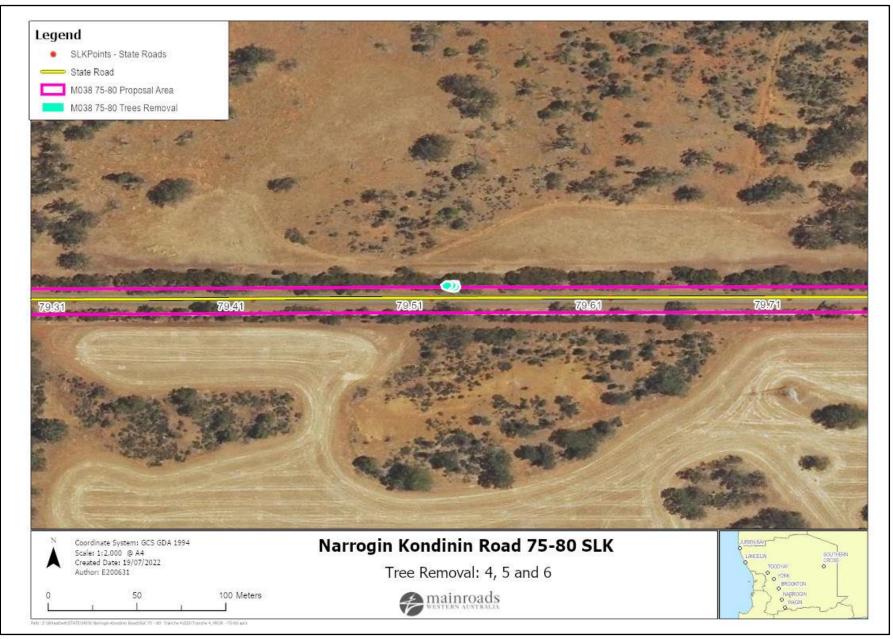


Figure 1c: Tree 4, 5 and 6



Figure 1d: Tree 7

D22#824346 / D24#336764

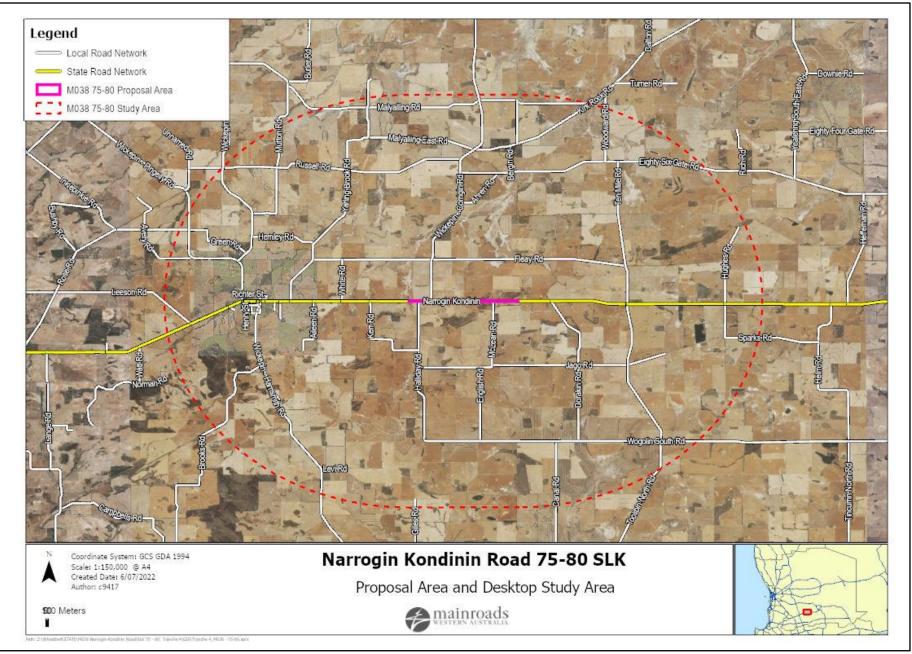


Figure 2: Proposal and Desktop study Area

D22#824346 / D24#336764