



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4994/1
File Number: 2011/006794-1
Duration of Permit: From 22 June 2012 to 22 June 2014

PERMIT HOLDER

City of Mandurah

LAND ON WHICH CLEARING IS TO BE DONE

Lakes Road reserve (PIN: 1132716, PIN: 1132717, PIN: 1383329, PIN: 1383328, PIN: 1168445 and PIN: 1132716) GREENFIELDS

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 1.2 hectares of native vegetation within the area hatched yellow on attached Plan 4994/1.

CONDITIONS

Nil

A handwritten signature in black ink, appearing to read "K Faulkner", written over a horizontal line.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20
of the Environmental Protection Act 1986*

31 May 2012

Plan 4994/1



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear

Perth Metropolitan South
15cm Orthomosaic - Landgate
2011



0 ————— 200 m

Scale 1:7104
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

Date 31/5/12
K. Faulkner

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Department of Environment and Conservation

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1. Application details

1.1. Permit application details

Permit application No.: 4994/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: City of Mandurah

1.3. Property details

Property: ROAD RESERVE (GREENFIELDS 6210)
Local Government Area: City of Mandurah
Colloquial name: Lakes Road reserve

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
1.2		Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 31 May 2012

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
Mapped Beard vegetation association 1001 is described as Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina.	The proposed clearing of 1.2ha is for the purpose of road widening of Lakes road.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Condition of vegetation was established through a site visit by Department of Environment and Conservation officers on the 11 May 2012 (DEC 2012).
Heddl vegetation complex Yoongarillup Complex (57) is described as Woodland to tall woodland of Eucalyptus gomphocephala (Tuart) with Agonis flexuosa in the second storey. Less consistently an open forest of Eucalyptus gomphocephala (Tuart) Eucalyptus marginata (Jarrah) Corymbia calophylla (Marri). (Shepherd et al 2001, Shepherd 2007).	The majority of the vegetation under application consist of large mature tuart (Eucalyptus gomphocephala) trees with Jarrah (Eucalyptus marginata), Allocasuarina sp and Banksia species over mulch and grassy weeds in a degraded condition (DEC 2012, Arbour Logic 2012)		

3. Assessment of application against clearing principles

Comments

The proposed clearing of 1.2ha is for the purpose of widening Lakes Road.

The majority of the vegetation under application consists of large mature tuart (Eucalyptus gomphocephala) trees with Jarrah (Eucalyptus marginata), Allocasuarina sp and Banksia species over mulch and grassy weeds in a degraded (Keighery 1994) condition (DEC 2012, Arbour Logic 2012).

There are no declared rare flora species or threatened ecological communities in the vicinity of the project.

Given the small size of the clearing and degraded (Keighery 1994) condition of the vegetation it is not considered for the proposed clearing to impact on local conservation areas or cause or exacerbate land degradation, water quality or flooding.

Given the degraded (Keighery 1994) condition of the vegetation it is not considered to represent Beard vegetation association 1001 which is mapped within the application area and which has been highly cleared with 25% of pre-European vegetation extent remaining (Government of Western Australia, 2011).

During a site visit several mature Tuart trees with the potential of containing small hollows were observed (DEC 2012). Some of these Tuarts are thought to be between 50 to 100 years old (Arbour Logic 2012). However, given that the small area to be cleared (1.2ha) and degraded condition of the vegetation it is not considered to contain significant habitat.

The assessment of the application identified that the clearing is not likely to be at variance to any of the principles.

Methodology	References
	-DEC (2012)
	-Arbour Logic (2012)
	- Government of Western Australia (2011)
	-Keighery (1994)
	GIS Databases
	-SAC Bio datasets (26 April 2012)
	-Pre-European vegetation
	-Soils, statewide
	Hydrography, linear

Planning instrument, Native Title, Previous EPA decision or other matter.

Comments

The proposed clearing of 1.2ha is for the purpose of widening Lakes Road reserve.

The City of Mandurah (2012) has advised that Lakes road is expected to attract over 15000 vehicles per day over the next 5-10 years and therefore requires upgrading. Public consultation has been undertaken with residents regarding the removal of the trees under application. In an effort to save as many trees as possible the City has compromised on the width of the eastern verge reducing it to 2.5 metres from the standard 4 metres. A replanting program will also take place once widening of the road has occurred (City of Mandurah 2012).

No submissions from the public have been received.

Methodology	References
	-City of Mandurah (2012)

4. References

City of Mandurah (2012) Application and supporting documentation for CPS 4994/1 – Lakes Road Reserve – City of Mandurah. DEC ref AA491623.

DEC (2012) Site Inspection Report for Clearing Permit Application CPS 4994/1, Lakes Road Reserve, Mandurah. Site inspection undertaken 11 May 2012. Department of Environment and Conservation, Western Australia (DEC ref A505233).

Government of Western Australia (2011); 2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). WA Department of Environment and Conservation, Perth.

Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Shepherd, D.P. (2007) Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.

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5. Glossary

Term	Meaning
BCS	Biodiversity Coordination Section of DEC
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment
DoIR	Department of Industry and Resources
DRF	Declared Rare Flora
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DEC)