



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 5713/1

File Number: 2011/006864-2

Duration of Permit: From 26 October 2013 to 26 October 2015

PERMIT HOLDER

Shire of Manjimup

LAND ON WHICH CLEARING IS TO BE DONE

Perup Road reserve, Manjimup (PIN 11255314)

Perup Road reserve, Dingup (PIN 11557917, 11255313)

Middlesex Road reserve, Middlesex (PIN 11552212, 11552213, 11552214)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.75 hectares of native vegetation within the combined areas shaded yellow on attached Plan 5713/1a and Plan 5713/1b.

CONDITIONS

1. Revegetation

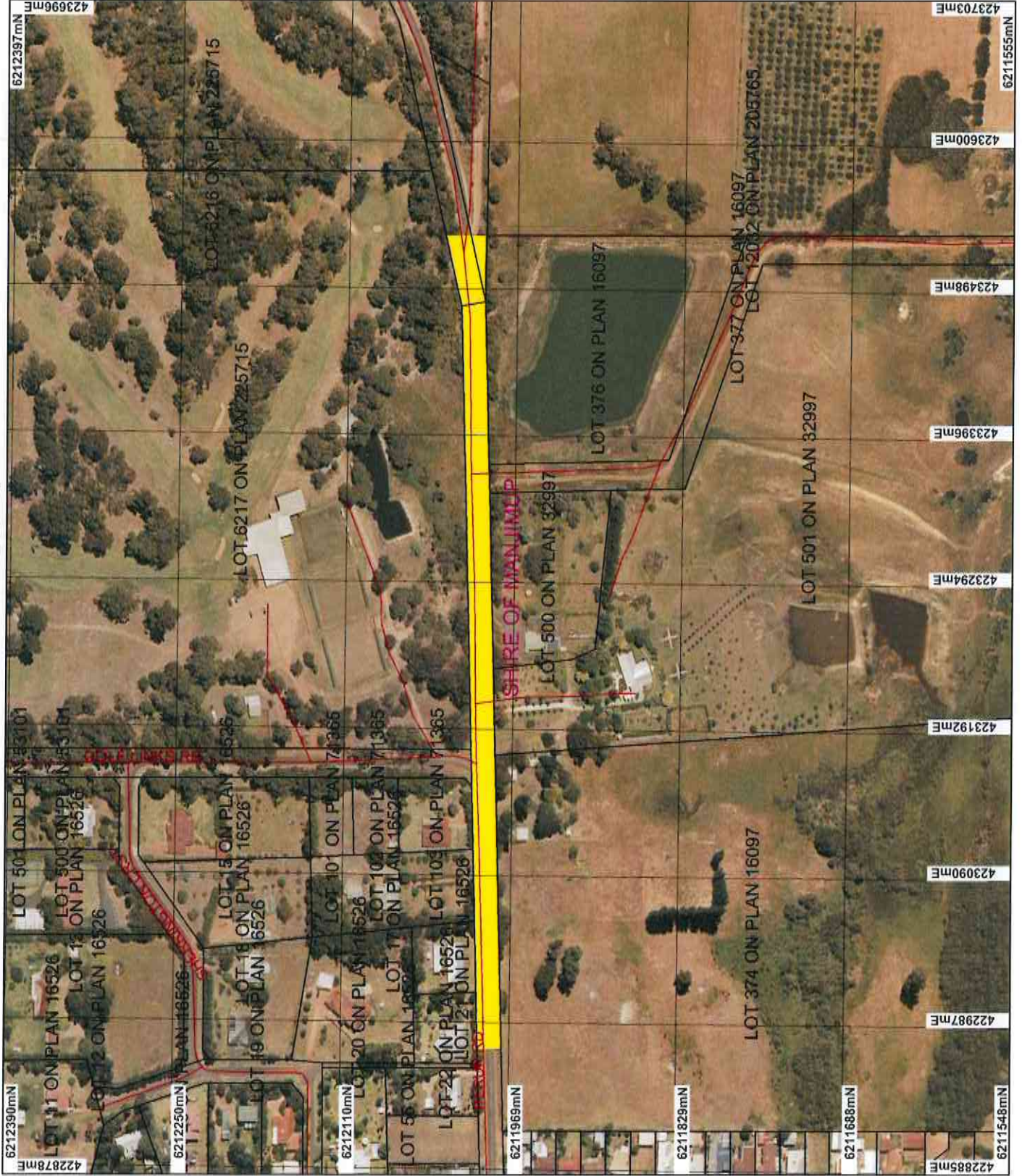
In relation to the area shaded red on attached Plan 5713/1c the Permit Holder must maintain previously planted native vegetation and implement weed control measures until June 2014.

M Warnock
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

26 September 2013

Plan 5713/1 a



LEGEND

- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Road Centrelines
- Cadastre for labelling
- Manjimup 50cm Orthomosaic - Landgate 2007

* Project Data is denoted by asterisk.
 This data has not been quality assured.
 Please contact map author for details.



0 100 m

Scale 1:4000

(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.

Approved Date *24/9/19*

M Warnock

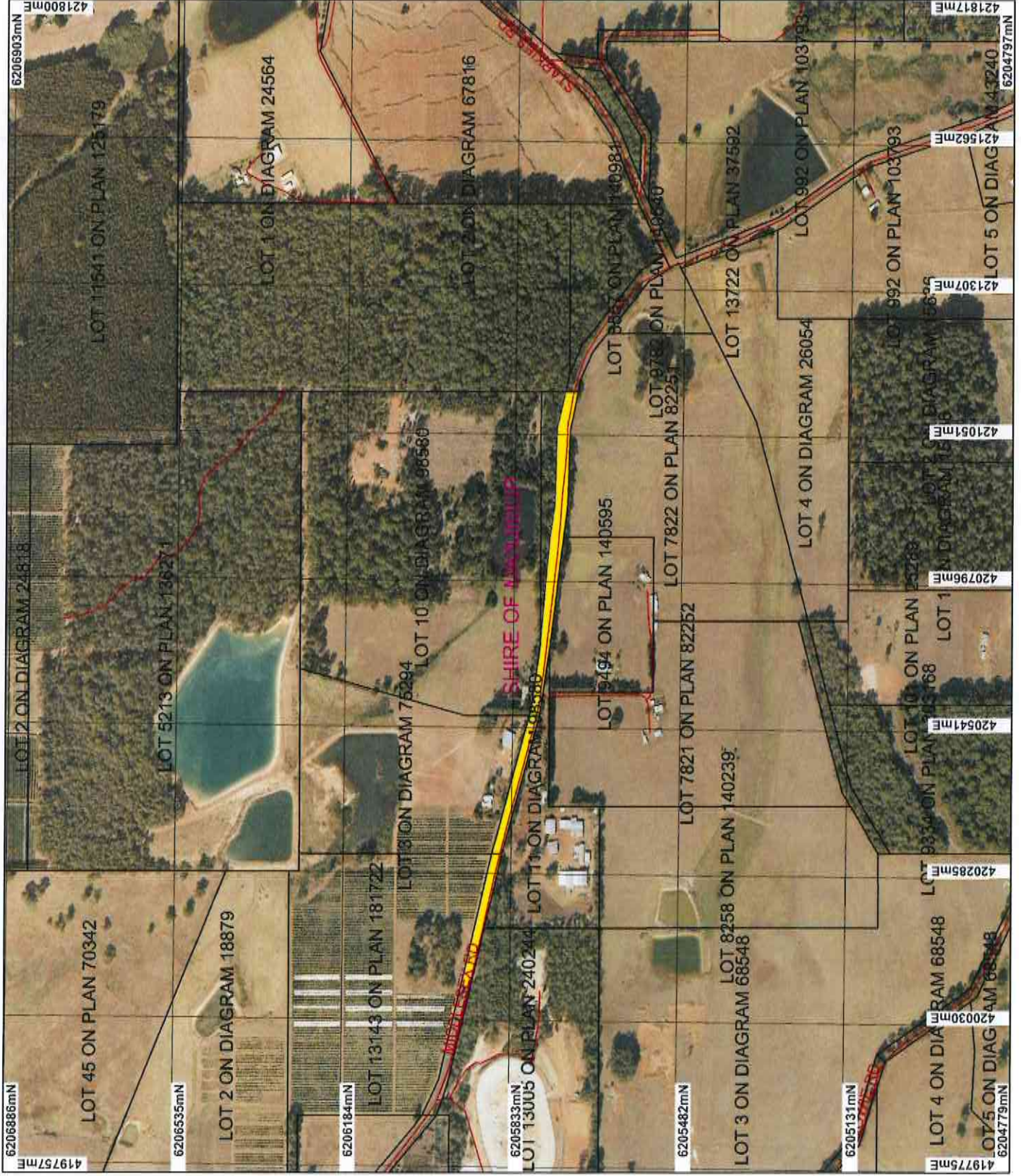
Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

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



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Plan 5713/1 b



LEGEND

- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Road Centrelines
- Cadastral for labelling
- Manjimup 50cm Orthomosaic - Landgate 2007

* Project Data is denoted by asterisk.
 This data has not been quality assured.
 Please contact map author for details.



0 250m

Scale 1:10000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1984

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

Amelind Date 29/9/13

M Waincock

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

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Plan 5713/1c



LEGEND

- Road Centrelines
 - Cadastre
 - Local Government Authorities
 - Clearing Instruments
 - Areas Subject to Conditions
- Manjirup 50cm Orthomosaic -
Landgate 2007



0 200 m

Scale 1:7121

(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.

M. Warnock 26/9/13
M. Warnock

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.



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Department of Environment Regulation

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Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 5713/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Shire of Manjimup

1.3. Property details

ROAD RESERVE (MIDDLESEX 6258)
ROAD RESERVE (DINGUP 6258)
ROAD RESERVE (MANJIMUP 6258)
Local Government Area: Shire of Manjimup
Colloquial name: Perup Road and Middlesex Road

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 26 September 2013

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
The vegetation under application within the Perup Road reserve, in the northern section of the application area, is mapped as Beard vegetation association 3 (Bridgetown), which is described as: Medium forest; jarrah-marri (Shepherd et al. 2001).	Shire of Manjimup widening and reconstruction of Perup Road and Middlesex Road.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	Vegetation description and condition were determined from aerial imagery (Manjimup 50cm Orthomosaic - Landgate 2007).
The vegetation under application within the Middlesex Road reserve, in the southern section of the application area, is mapped as Beard vegetation associations 3 and 1144 (Nornalup). Beard vegetation association 3 is mapped within approximately 20 per cent of the application area, and is described as: Medium forest; jarrah-marri. Beard vegetation association 1144 is mapped within approximately 80 per cent of the application area, and is described as: Tall forest; karri & marri (Corymbia calophylla) (Shepherd et al. 2001).	The application is to clear 0.75 hectares of native vegetation within Perup Road reserve, Manjimup and Dingup, and Middlesex Road reserve, Middlesex, Shire of Manjimup, for the purpose of road widening and reconstruction.	To Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994).	

3. Assessment of application against clearing principles

Comments

The application is to clear 0.75 hectares of native vegetation for the purpose of road widening and reconstruction. The vegetation under application is within two vegetated road reserves. The northern section of the application area is within Perup Road reserve, in which 0.25 hectares of native vegetation is proposed to be cleared. Vegetation condition within this section is considered to be in a degraded (Keighery 1994) to completely degraded (Keighery 1994) condition. The southern section of the application area is within the Middlesex Road reserve, in which 0.5 hectares is proposed to be cleared. Vegetation condition within this section is considered to be in a good (Keighery 1994) to completely degraded (Keighery 1994) condition.

There are nine species of priority flora and one priority ecological community (PEC) within the local area (10 kilometre radius from each section of the application area). Given the small size and disturbed condition of the application areas, the vegetation proposed to be cleared is unlikely to contain priority flora or a PEC.

There are nine fauna species listed as rare or likely to become extinct under the Wildlife Conservation Act 1950 within the local area (10 kilometre radius). This includes the Woylie (*Bettongia penicillata* subsp. *ogilbyi*), Forest Red-tailed Black-cockatoo (*Calyptorhynchus banksii* subsp. *naso*), Baudin's cockatoo (*Calyptorhynchus baudinii*), Carnaby's cockatoo (*Calyptorhynchus latirostris*), Chuditch (*Dasyurus geoffroii*), Numbat (*Myrmecobius fasciatus*), Southern brush-tailed Phascogale (*Phascogale tapoatafa* subsp. *tapoatafa*), Western

Ringtail Possum (*Pseudocheirus occidentalis*), and Quokka (*Setonix brachyurus*) (DPaW 2007-). Of these species, the application area is unlikely to contain suitable habitat for the Western Ringtail Possum (*Pseudocheirus occidentalis*). The application area may contain suitable habitat for the remaining eight species. Given the small size of the application area and the percentage of remaining vegetation within the local area (approximately 50 per cent in a 10 kilometre radius from each section of the application area), the proposed clearing is unlikely to remove habitat significant for the maintenance of these species.

There are three species of rare flora recorded within the local area (10 kilometre radius from each section of the application area). The closest record of a rare flora species is 2.2 kilometres from the application area. The first species of rare flora grows in sandy loam or clay within skeletal soils, on low quartzite ridges and granite outcrops (WA Herbarium 2013). The second species grows on winter-wet flats in heath and tall scrub communities, within Jarrah (*Eucalyptus marginata*) - Marri (*E. calophylla*) forest and under Paperbarks (*Melaleuca* sp.) (TSSC 2008a). The third species inhabits Paperbark and Flooded gum (*E. rudis*) swamps and flats which are inundated for several months of the year, and may also be found along creeklines in Jarrah and Karri (*E. diversicolor*) forest (TSSC 2008b). The application area is unlikely to contain suitable habitat for any of these rare flora species.

There are no threatened ecological communities within the local area (10 kilometre radius from each section of the application area). There is over 30 per cent of pre-European vegetation extent remaining within all vegetation units measured (Government of Western Australia 2013). The vegetation under application is therefore unlikely to be a significant remnant.

There are no wetlands mapped within the local area. All watercourses within close proximity to the application area are highly modified, and the application area does not appear to contain riparian vegetation. Given the small size of the application area, the proposed clearing is unlikely to cause or exacerbate land degradation or flooding. There are no conservation reserves within close proximity to the application area.

The application areas are within the Country Areas Water Supply Act 1947 (CAWS Act) gazetted Warren River Water Reserve. This water reserve has been subject to CAWS Act native vegetation clearing controls since December 1978 to prevent salinisation of water resources. The Perup Road reserve section of the application area is within Zone B of the water reserve, which is a high salinity risk area. The Middlesex Road reserve section of the application area is within Zone C of the water reserve, which is a medium salinity risk area. Within high and medium salinity risk areas, the Department of Water policy and guidelines for the granting of licences to clear indigenous vegetation provide for the grant of a licence to clear for government works, subject to an equivalent area being reforested within the same or higher salinity risk zone. To compensate for clearing within this CAWS Act area the Shire has advised that they recently planted 11 200 seedlings (over 1.2 hectares) of native vegetation within the Mottram Street Reserve which is in Zone D of the water reserve.

Given the above, the proposed clearing may be at variance to principle (i) and is not likely to be at variance to the remaining clearing principles.

Methodology

References:

DPaW (2007-)
Government of Western Australia (2013)
Keighery (1994)
TSSC (2008a)
TSSC (2008b)
WA Herbarium (2013)

GIS Databases:

- ANCA, Wetlands
- Cadastre
- Carnabys Cockatoo Breeding Areas Confirmed
- Carnabys Cockatoo Breeding Areas Unconfirmed
- Carnabys Cockatoo Feeding SCP Unconfirmed
- Carnabys Cockatoo Feeding JF Unconfirmed
- Carnabys Cockatoo Roost Areas (buffered) Confirmed
- Carnabys Cockatoo Roost Areas (buffered) Unconfirmed
- Carnabys Cockatoo Roost Areas Confirmed
- Carnabys Cockatoo Roost Areas Unconfirmed
- Geomorphic Wetlands
- Hydrology, Linear
- Manjimup 50cm Orthomosaic - Landgate 2007
- NLWRA, Current Extent of Native Vegetation
- RAMSAR, Wetlands
- SAC Biodatasets (accessed on 29/08/13)

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

Comments

The application area is within the Warren River and Tributaries Surface Water Area covered by the Rights in Water and Irrigation Act 1914 (RIWI Act). The application area does not intersect any mapped water features and hence the proposed clearing will not interfere with any beds or banks. The proposal does not require taking of surface of groundwater. The applicant therefore does not require a Department of Water (DoW) licence in relation to the RIWI Act.

The application area is within the Country Areas Water Supply Act 1947 (CAWS Act) gazetted Warren River Water Reserve. The Department of Water (DoW) has advised that the reserve is not currently located in a Public Drinking Water Resource Area and hence no priority source protection has been assigned or is proposed. The catchment has however been subject to CAWS Act native vegetation clearing controls since December 1978 to prevent salinisation of water resources.

The Perup Road reserve section of the application area is within Zone B of the water reserve, which is a high salinity risk area. The Middlesex Road reserve section of the application area is within Zone C of the water reserve, which is a medium salinity risk area. Within high and medium salinity risk areas, DoW policy and guidelines for the granting of licences to clear indigenous vegetation provide for the grant of a licence to clear for government works, subject to an equivalent area being reforested within the same or higher salinity risk zone. The DoW has advised that as the application area is small, the amalgamation of similar offset area requirements over time to create sustainable revegetation areas is acceptable (DoW 2013).

The Shire of Manjimup (2013) has advised that they have recently planted 11 200 seedlings within the Mottram Street Reserve to rehabilitate a stream line. The seedlings planted consisted of a biodiverse mix of local provenance species. In addition to the planting of 11 200 seedlings the Shire has also committed to weed control management until June 2014. This revegetation project was funded by the State Natural Resource Management Office (Shire of Manjimup 2013).

Mottram Street Reserve is located with Zone D of the Warren River Catchment which is a low salinity risk area. As the Shire's rehabilitation is approximately twice the size of the proposed clearing, the planting of 11 200 seedlings is considered suitable to mitigate impacts to the Warren River Water Reserve.

Methodology

References:

DoW (2013)

Shire of Manjimup

GIS Databases:

- CAWSA Part IIA Clearing Control Catchments
- Public Drinking Water Source Areas
- RIWI Act, Groundwater Areas
- RIWI Act, Surface Water Areas, Irrigation districts

4. References

- DPaW (2007-) NatureMap Species Report, created by guest user on 07/08/2013 (A658794).
- DoW (2013) Advice on CPS 5713/1 Clearing Application - Shire of Manjimup - Perup Road and Middlesex Road reserves. Department of Water, Land and Clearing (CAWSA) Management, Western Australia. Received by the Native Vegetation Conservation Branch on 13/08/13 (A660742).
- Government of Western Australia. (2013). 2012 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of October 2012. 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., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.
- Shire of Manjimup (2013) Details of State Natural Resource Management Office funded revegetation project with Mottram Reserve, Shire of Manjimup (DER Ref: A673472).
- TSSC (2008a) Approved Conservation Advice. Threatened Species Scientific Committee, Australia. Available from: <http://www.environment.gov.au/biodiversity/threatened/> [Accessed on 29/08/13].
- TSSC (2008b) Approved Conservation Advice. Threatened Species Scientific Committee, Australia. Available from: <http://www.environment.gov.au/biodiversity/threatened/> [Accessed on 29/08/13].
- WA Herbarium (2013) Florabase the Western Australian Flora, Species information. Department of Parks and Wildlife, Western Australia. Available at: <http://florabase.dpaw.wa.gov.au> [Accessed on 29/08/13].

5. Glossary

Term	Meaning
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DRF	Declared Rare Flora
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community