



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4560/1

File Number: 2011/006835-1

Duration of Permit: From 24 October 2011 to 24 October 2013

PERMIT HOLDER

Shire of Dandaragan

LAND ON WHICH CLEARING IS TO BE DONE

Dandaragan Road Reserve (PIN: 1226202), YATHROO 6507

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.09 hectares of native vegetation within the area shaded yellow on attached Plan 4560/1.

CONDITIONS

1. Weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

DEFINITIONS

The following meanings are given to terms used in this Permit:

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

weeds means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

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

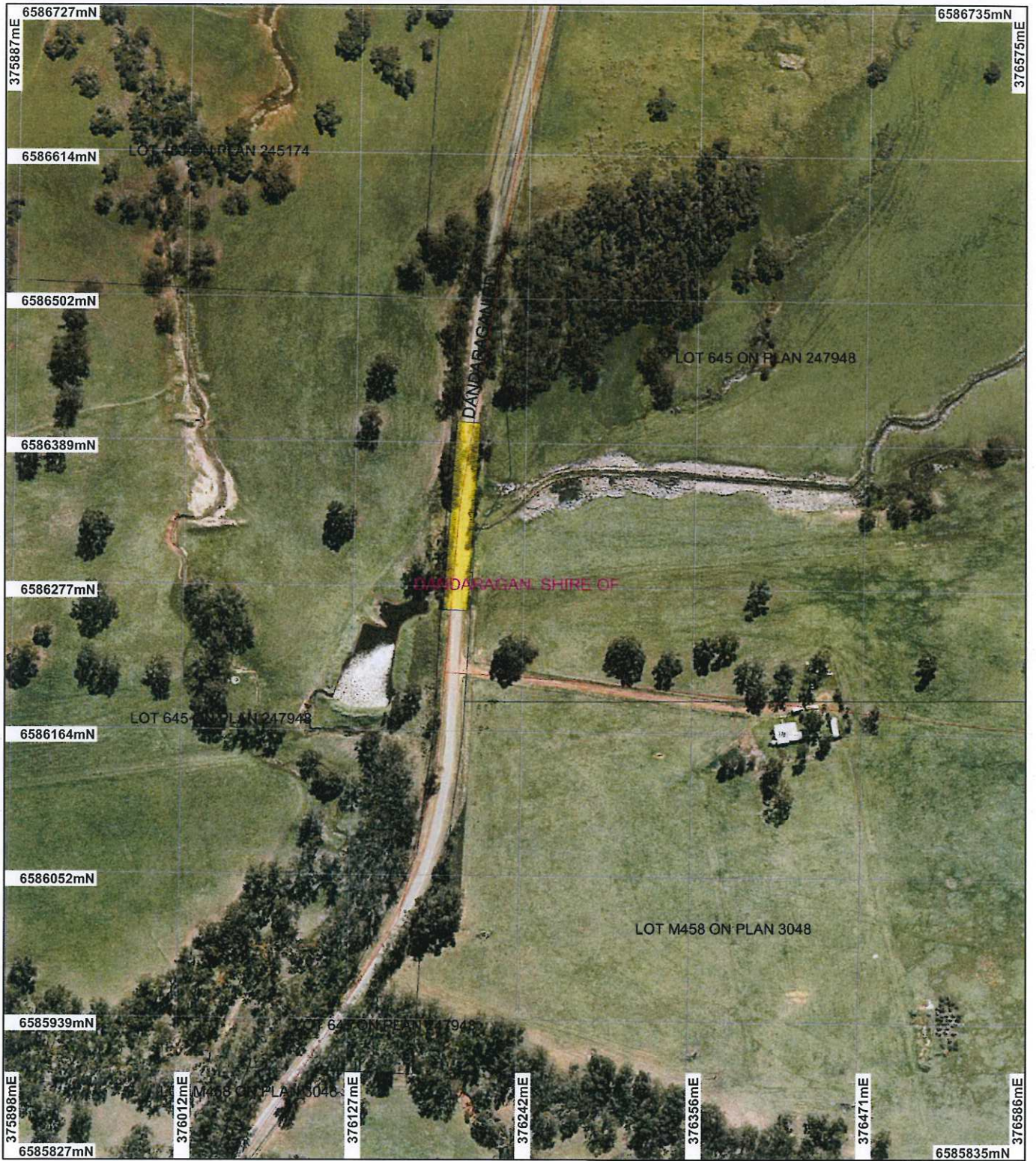
Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

29 September 2011

CPS 4560/1, 29 September 2011

Plan 4560/1



LEGEND

- | | |
|-----------------------------------|-------------------------------------------------------|
| Clearing Instruments | <input type="checkbox"/> Local Government Authorities |
| Areas Approved to Clear | |
| Road Centrelines | |
| <input type="checkbox"/> Cadastre | |

Dandaragan 50cm
Orthomosaic - Landgate
2008

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.

Date 29/04

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.: 4560/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Shire of Dandaragan

1.3. Property details

Property: ROAD RESERVE (YATHROO 6507)
Local Government Area: Shire of Dandaragan
Colloquial name: Dandaragan Road reserve, Yathroo

1.4. Application

Clearing Area (ha) 0.09 Method of Clearing Mechanical Removal For the purpose of: Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 29 September 2011

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
Beard vegetation association - 999: medium woodland; marri (Hopkins et al., 2001).	The vegetation under application comprises approximately 0.09ha of native vegetation considered to be in a 'degraded' (Keighery, 1994) condition due to being within a narrow road reserve that has been subject to historic clearing including for the initial construction of Dandaragan Road.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The vegetation condition was confirmed through aerial imagery - Dandaragan 50cm Orthomosaic - Landgate 2008.

3. Assessment of application against clearing principles

Comments

The proposed clearing area comprises 0.09ha of native vegetation considered to be in a 'degraded' (Keighery, 1994) condition as a result of historic clearing and increased edge effects such as weed invasion, due to the narrow road reserve it is within. The vegetation is mapped as Beard vegetation association 999 - medium woodland; marri (Hopkins et al, 2001) of which there is less than 10% remaining within the Swan Coastal Plain bioregion (Shepherd, 2009). Although the mapped vegetation type is below the 30% threshold and the local area is extensively cleared, the vegetation under application is not considered to be a good representation of the mapped vegetation association given its 'degraded' (Keighery, 1994) condition and given the small scale of the vegetation is not considered to be significant as a remnant.

Nine threatened and priority fauna species occur within the local area (20km radius) with the closest record being Carnaby's black cockatoo (*Calyptorhynchus latirostris*) (DEC, 2007 -) listed as Endangered under the Environment Protection and Biodiversity Conservation Act 1999 and threatened under the Wildlife Conservation Act 1950. One large marri is proposed to be removed and the vegetation under application may be important as habitat for indigenous fauna species in an extensively cleared landscape.

Two threatened (declared rare) flora species, *Acacia forrestiana* and *Acacia splendens*, have been recorded within the local area (20km radius) within similar vegetation and soil types to the area under application, however, given the position of the applied area in the landscape the likelihood of these species being in the applied area is considered low.

The closest conservation area is Namming Nature Reserve which is approximately 11.4km south west of the area under application. Given the distance between this reserve and the area proposed to be cleared and the small scale and condition of the proposed clearing, it is unlikely that the clearing will impact upon environmental values of conservation areas in the local area.

The vegetation is likely to contain riparian vegetation as a minor, non-perennial watercourse crosses the applied clearing area which leads to a neighbouring dam and therefore the proposed clearing may result in the clearing of native vegetation growing in association with a watercourse.

The proposed clearing for road works may cause some short term water quality issues in terms of localised surface water sedimentation and flooding during works as a result of clearing along the watercourse. However, these issues should be minimised through the inclusion of roadside infrastructure (ie. table drains and culverts). In addition, given the small scale and condition of the proposed clearing, it is unlikely that the proposed clearing will cause appreciable land degradation or deterioration in the quality and quantity of water resources within the local area.

Given the above, the proposed clearing is considered to may be at variance to principles (b) and (f) and is not likely to be at variance to any of the remaining clearing principles.

- Methodology** References:
- DEC (2007 -)
 - Hopkins et al (2001)
 - Keighery (1994)
 - Shepherd (2009)
- GIS Databases:
- DEC Tenure - DEC
 - Hydrography, linear - DoW
 - Pre-European Vegetation - DA
 - Register of National Estate - EA
 - System 6 Conservation Reserves - DEC
 - Dandaragan 50cm Orthomosaic - Landgate 2008

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

Comments

The proposed clearing comprises 0.09ha of native vegetation confined to Dandaragan road reserve, Yathroo for the purposes of road widening (Shire of Dandaragan, 2011a & Shire of Dandaragan, 2011b). The Shire has received regional road group funding to undertake works along this road reserve (Shire of Dandaragan, 2011b).

The vegetation lies within the Moore River and certain tributaries surface water area proclaimed under the Rights in Water and Irrigation Act 1914 administered and managed by the Department of Water (DoW). Any interference with the bed and banks of a watercourse will require approval from DoW.

The applied clearing area lies within the EPA position statement No. 2 agricultural area, however, the proposed clearing is of a small scale and not for the purposes of agriculture.

- Methodology** References:
- Shire of Dandaragan (2011a)
 - Shire of Dandaragan (2011b)
- GIS Databases:
- Cadastre - Landgate
 - EPA Position Paper No 2. Agricultural Area - DEP
 - RiWI Act, Areas - DoW
 - RiWI Act, Surface Water Areas, Irrigation Districts - DoW

4. References

- DEC (2007 -) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. URL: <http://naturemap.dec.wa.gov.au/>. Accessed 5/09/2011.
- Hopkins, A.J.M., Beeston, G.R. and Harvey J.M. (2001) A database on the vegetation of Western Australia. Stage 1. CALMScience after J. S. Beard, late 1960's to early 1980's Vegetation Survey of Western Australia, UWA Press.
- 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. (2009) 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.
- Shire of Dandaragan (2011a) Applied clearing area for Application for a clearing permit (area permit), Shire of Dandaragan, Dandaragan Road reserve, Yathroo. Shire of Dandaragan, Dandaragan. DEC ref A432078.
- Shire of Dandaragan (2011b) Application for a clearing permit (area permit), Shire of Dandaragan, Dandaragan Road Reserve, Yathroo. Shire of Dandaragan, Dandaragan Western Australia. DEC ref A422884.

5. Glossary

Term	Meaning
CALM	Department of Conservation and Land Management (now DEC)
DA	Department of Agriculture (now DAFWA)
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
DoSEWPC	Department of Sustainability, Environment, Water, Population and Communities
DoW	Department of Water
DRF	Declared Rare Flora
EA	Environment Australia (now DoSEWPC)
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DoW)