



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: CPS 3826/1

File Number: DEC4375

Duration of Permit: From 19 September 2010 to 19 September 2012

PERMIT HOLDER

Shire of Manjimup

LAND ON WHICH CLEARING IS TO BE DONE

Middleton Road reserve, Northcliffe (PIN 11560470 and PIN 11623761)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 1 hectare of native vegetation within the area shaded yellow on attached Plan 3826/1.

CONDITIONS

1. Dieback and 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* and *dieback*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) shall only move soils in *dry conditions*;
- (c) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (d) 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:

dieback means the effect of *Phytophthora* species on native vegetation;

dry conditions means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

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; and

weed/s 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*.

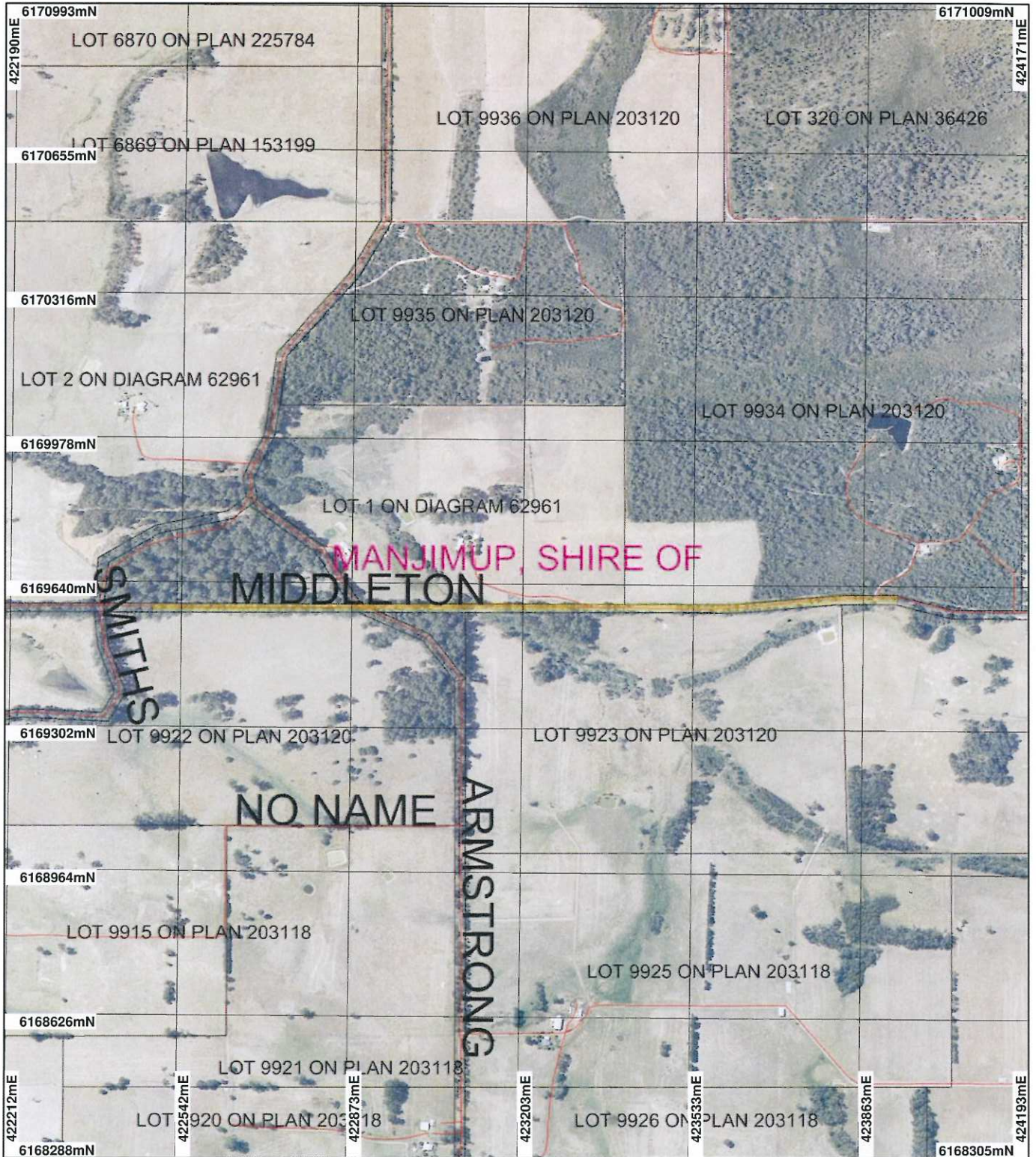
A handwritten signature in black ink, appearing to read "Kelly Faulkner", written over a horizontal line.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

19 August 2010

Plan 3826/1



LEGEND

- | | |
|---|--|
| <input type="checkbox"/> Cadastre | Clearing Instruments |
| <input type="checkbox"/> Local Government Authorities | <input type="checkbox"/> Areas Approved to Clear |
| Road Centrelines | Northcliffe 50cm Orthomosaic - Landgate 2007 |



0 300 m

Scale 1:11837

(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 19/7/10

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.



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1. Application details

1.1. Permit application details

Permit application No.: 3826/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Shire of Manjimup

1.3. Property details

Property: ROAD RESERVE (NORTHCLIFFE 6262)
ROAD RESERVE (BOORARA BROOK 6262)

Local Government Area: Shire of Manjimup

Colloquial name: Middleton Road

1.4. Application

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

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: 1144: Tall forest; karri and marri (<i>Corymbia calophylla</i>)	The vegetation under application is within the existing Middleton Road reserve and has been previously disturbed by construction activities (DEC, 2010). Along the majority of the applied area the adjoining land is cleared for agriculture on one or, in some sections, both sides of the road reserve.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery, 1994)	Vegetation condition was determined from aerial photography, photographs provided by the applicant (Shire of Manjimup, 2010), site inspection report (DEC, 2010) and RCC roadside conservation value mapping (RCC, 2003).
23: Low woodland; jarrah - banksia (Shepherd, 2009)		To	
Mattiske Vegetation Complex: CRb: Tall open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus diversicolor</i> on upper slopes with <i>Allocasuarina decussata</i> - <i>Banksia grandis</i> on upper slopes in hyperhumid and perhumid zones	The vegetation predominantly comprises an overstorey of Karri (<i>Eucalyptus diversicolor</i>) and Marri (<i>Corymbia calophylla</i>), with a middle storey of casuarina in some sections and a ground cover of introduced weeds and grasses (DEC, 2010).	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery, 1994)	
S3: Low woodland of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Corymbia calophylla</i> on slopes, and mosaic of low open woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> , closed heaths and sedgeland of <i>Cyperaceae</i> spp. on valley floors with impeded drainage in hyperhumid and perhumid zones	The vegetation under application has been mapped by the Roadside Conservation Committee (RCC) as being of high conservation value (RCC, 2003).		
A: Open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Banksia ilicifolia</i> - <i>Nuytsia floribunda</i> with some <i>Eucalyptus diversicolor</i> on gently sloping sandy terrain in hyperhumid and perhumid zones (Mattiske et al., 1998)			

3. Assessment of application against clearing principles

Comments

The Shire of Manjimup proposes to clear up to 1ha of native vegetation within Middleton Road reserve, Northcliffe, in order to complete reconstruction of the existing road including realignment, widening and reconstruction of the drain and backslope, which will involve disturbance to almost all of the road reserve (Shire of Manjimup, 2010).

The vegetation under application is mapped within Beard Vegetation Associations 1144 and 23, which retain 79.63% and 74.11% of their pre-European extents, respectively, within the Warren IBRA bioregion (Shepherd, 2009). The Shire of Manjimup retains 84.5% of its pre-European vegetation extent (Shepherd, 2009) and a relatively large proportion of the native vegetation in the local area (10km radius) is held in secure tenure, with Jane National Park approximately 900m to the north and the east of the applied area, and several other national parks and state forests in the local area. Aerial imagery indicates that native vegetation in the local area retains a relatively high degree of connectivity.

Due to the disturbed condition of the applied area and the significantly cleared adjacent properties, it is unlikely that the vegetation under application provides significant habitat for indigenous fauna, or that threatened flora species exist within the applied area (DEC, 2010). While the proposed clearing is unlikely to directly impact on flora and fauna of conservation significance, the vegetation under application is assessed as being of high roadside conservation value (RCC, 2003) and the removal of vegetation that provides linkages between areas of native vegetation decreases the ability of flora and fauna to disperse throughout the vicinity (RCC, 2010). Therefore, every effort should be made to avoid and minimise damage to the roadside vegetation, which could be achieved by alternate road alignment and restricting clearing to one side of the road to ensure the corridor is maintained (RCC, 2010).

Given the disturbed condition of the vegetation under application, the small size (1ha) and linearity of the proposed clearing, it is unlikely to cause in appreciable land degradation. It is also considered unlikely that the flow regime of nearby minor watercourses will be impacted, as there is drainage infrastructure related to the existing road already in place (DEC, 2008).

The Shire of Manjimup is a known Phytophthora dieback risk area and roadside clearing activities have the potential to introduce and spread this pathogen, as well as weeds, due to the movement and disturbance of soil (RCC, 2010). This threat can be minimised by the imposition of dieback and weed control conditions.

Given the above, the proposed clearing is not likely to be at variance with the clearing Principles.

Methodology

References:

- DEC, 2008
- DEC, 2010
- RCC, 2010
- RCC, 2003
- Shepherd, 2009
- Shire of Manjimup, 2010
- GIS Databases:
 - ANCA, Wetlands - 26/03/99
 - DEC Managed Lands & Waters - DEC 28/10/09
 - Evapotranspiration, Area Actual - BOM 30/09/01
 - Groundwater Salinity, statewide - DoW 13/07/06
 - Hydrogeographic Catchments, Catchments - DoW 01/06/07
 - Hydrogeology, statewide - DoW 13/07/06
 - Hydrography, linear DoW 13/7/06
 - Mattiske Vegetation Complexes - CALM 01/03/98
 - Northcliffe 50cm Orthomosaic - Landgate 2007
 - Rainfall, Mean Annual - BOM 30/09/01
 - Pre-European vegetation - DA 01/01
 - RAMSAR, Wetlands - 15/10/09
 - SAC Biodatasets - 19/07/10
 - Soils, Statewide - 30/11/99
 - Topographic Contours, Statewide - DOLA 12/09/02

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

Comments

The native vegetation clearing permit, CPS 2046/1, previously granted to the Shire of Manjimup for the Middleton Road reserve included the eastern half of the vegetation currently under application and expired on 17 February 2010.

No submissions from the public have been received.

There are no known Aboriginal Sites of Significance within 5km of the applied area.

The vegetation under application is not within an area proclaimed under the Rights in Water and Irrigation Act 1914 or Country Areas Water Supply Act 1947.

A concern was raised in relation to the proposed method of disposal by burning as this practise should be

considered only as a last resort (RCC, 2010). The use of vegetative material for revegetation efforts is a preferred disposal method (RCC, 2010).

Methodology

References:

RCC, 2010

GIS Databases:

- Aboriginal Sites of Significance - DIA 02/10
- Cadastre - Landgate 12/09
- Country Area Water Supply Act (Part IIA) Clearing Control Catchments - DoW 29/06/06
- Environmental Impact Assessments - EPA 08/03/05
- Native Title Claims - LA 2/5/07
- Public Drinking Water Source Areas (PDWSAs) - 07/02/06
- RIWI Act, Groundwater Areas - DoW 13/07/06
- RIWI Act, Irrigation Districts - DoW 13/07/06
- Town Planning Scheme Zones - MFP 31/08/98

4. References

- DEC (2008) Decision Report for Clearing Permit Application CPS 2046/1. Department of Environment and Conservation. TRIM Ref: DOC43795
- DEC (2010) Warren Regional Advice. Department of Environment and Conservation. DEC Ref: A324052
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Mattiske, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment Australia.
- RCC (2003) Road Conservation Committee Value Mapping - Shire of Manjimup. Roadside Conservation Committee. DEC Ref: A324212
- RCC (2010) Roadside Conservation Value Advice. Roadside Conservation Committee. DEC Ref: A324186, A324190
- 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 Manjimup (2010) Clearing permit application - supporting information. Shire of Manjimup. DEC Ref: A315035

5. Glossary

Term	Meaning
CALM	Department of Conservation and Land Management (now DEC)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment (now DEC)
DoW	Department of Water
DMP	Department of Mines and Petroleum (ex DoIR)
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)