



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 3845/1

File Number: 2010/005203-1

Duration of Permit: From 7 November 2010 to 7 November 2015

PERMIT HOLDER

Raymond George Muir

LAND ON WHICH CLEARING IS TO BE DONE

Lot 11 on Diagram 95285 (Balbarrup 6258)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 1 hectare of native vegetation within the area shaded yellow on attached Plan 3845/1.

CONDITIONS

1. Revegetation and rehabilitation

- (a) Prior to 31 July 2013 the Permit Holder shall *revegetate* and *rehabilitate* the area shaded red on attached Plan 3845/1 by:
- ripping the ground on the contour to remove soil compaction prior to undertaking works pursuant to condition 1(a)(ii); and
 - at an *optimal time*, deliberately *planting* and/or *direct seeding* native vegetation within the area shaded red on attached Plan 3845/1 that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area; and
 - ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.
- (b) Within 2 years of undertaking *revegetation* and *rehabilitation* in accordance with condition 1(a) of this Permit:
- engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
 - where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 1(b)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, the Permit Holder must undertake additional *planting* or *direct seeding* of native vegetation in accordance with the requirements of condition 1(a)(ii) and (iii) of this Permit.

2. Records to be kept

The Permit Holder must maintain the following record for activities done pursuant to this Permit:

In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 1 of this Permit:

- the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
- a description of the *revegetation* and *rehabilitation* activities undertaken;
- the size of the area *revegetated* and *rehabilitated* (in hectares); and
- the species composition, structure and density of *revegetation* and *rehabilitation*.

3. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
- (i) of records required under condition 2 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 7 August 2015, the Permit Holder must provide to the CEO a written report of records required under condition 2 of this Permit where these records have not already been provided under condition 3(a) of this Permit.

Definitions

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

direct seeding means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

environmental specialist means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

local provenance means native vegetation seeds and propagating material from natural sources within 10 kilometres of the area cleared;

optimal time means the period from April to June for undertaking *direct seeding*, and the period from May to June for undertaking *planting*;

planting means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

rehabilitate/ed/ion means actively managing an area containing native vegetation in order to improve the ecological function of that area; and

revegetate/ed/ion means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area.

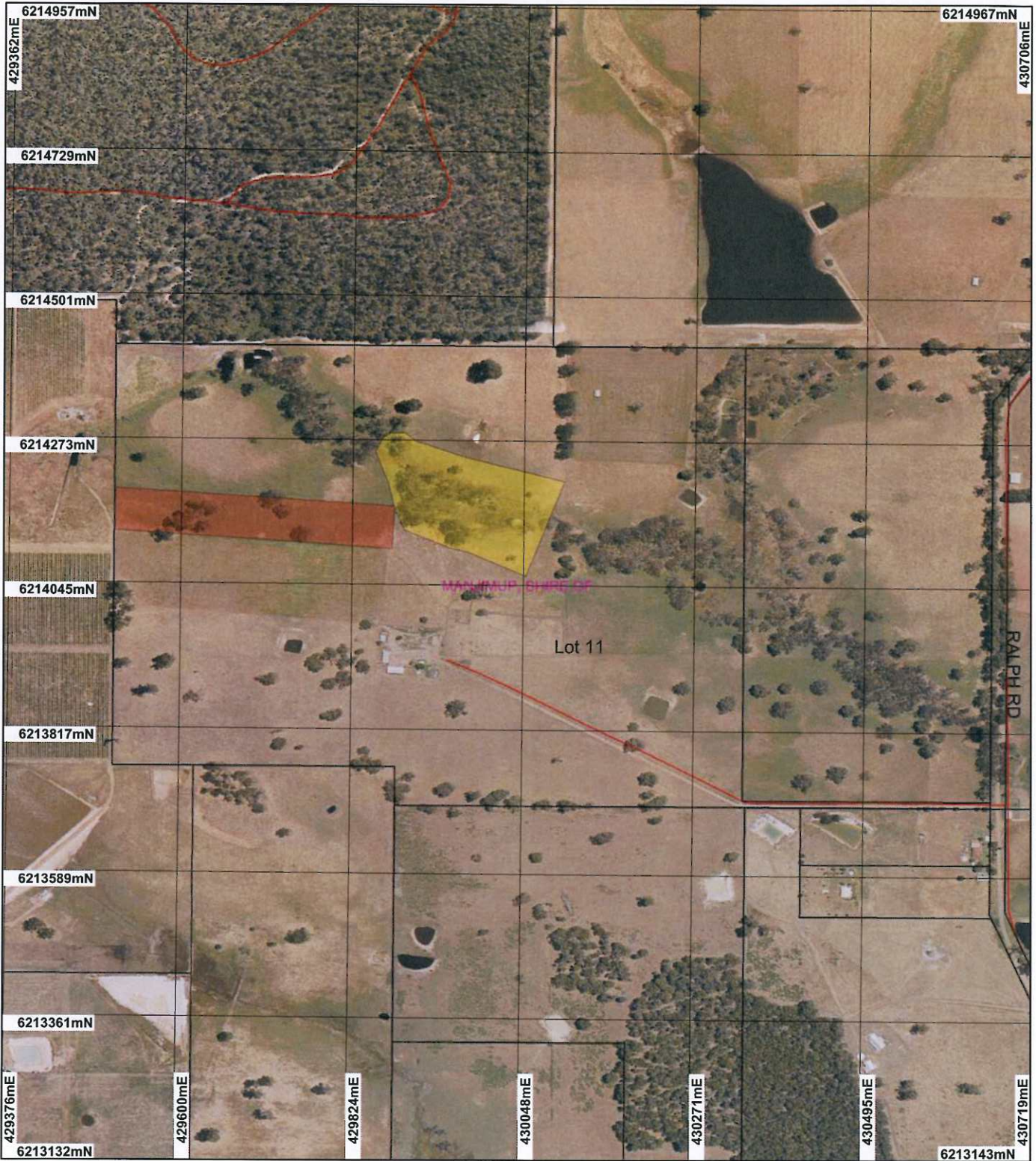


Matthew Warnock
ACTING MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

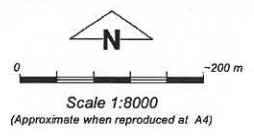
7 October 2010

Plan 3845/1



LEGEND

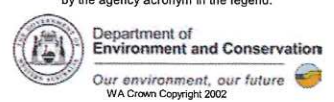
- | | |
|-----------------------------|---|
| Clearing Instruments | <input type="checkbox"/> Cadastre |
| Areas Applied to Clear | <input type="checkbox"/> Local Government Authorities |
| Areas Subject to Conditions | Manjimup 50cm Orthomosaic - Landgate 2007 |
| Areas Approved to Clear | |
| Road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



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 Date 7/10/10
 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.



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



1. Application details

1.1. Permit application details

Permit application No.: 3845/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Raymond George Muir

1.3. Property details

Property: LOT 11 ON DIAGRAM 95285 (Lot No. 11 RALPH BALBARRUP 6258)
Local Government Area:
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
1		Mechanical Removal	Dam 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
Mapped Beard (1980) Vegetation Association Bridgetown 3 described as a medium forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> .	The proposal is to clear 1 ha of native vegetation within a 3 ha area for the purpose of constructing a dam. The vegetation of the area under application is described as being in a degraded (Keighery 1994) condition and comprises an open forest of <i>Eucalyptus rudis</i> and <i>Eucalyptus patens</i> trees over introduced weeds and grasses (DEC, 2010).	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The vegetation condition description was obtained during a visit to the proposed area on 11 August 2010 (DEC 2010).
Mapped Matisse & Havel (1998) Vegetation Complex Pemberton described as open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus marginata</i> subsp. <i>marginata</i> on slopes and open forest of <i>Eucalyptus patens</i> - <i>Corymbia calophylla</i> on lower slopes in the humid zone.			

3. Assessment of application against clearing principles

Comments

The proposal is to clear 1 ha with a 3 ha area for the purpose of dam construction, which is to be situated within a minor perennial watercourse.

The vegetation of the area under application consists of an open forest of *Eucalyptus rudis* and *Eucalyptus patens* trees over introduced weeds and grasses (DEC, 2010). Given the proposal consists of vegetation associated with a watercourse; the proposal is at variance to principle (f).

The area under application is mapped as consisting of Beard vegetation association 3 of which 69.35% remains in the Jarrah Forest IBRA Bioregion (Shepherd 2009), and Matisse vegetation complex Pemberton PM2, of which 53.17% remains within the State (Matisse and Havel, 1998).

The closest conservation area to the proposal site is State Forest 37 which is 220m north, but as the topography of the land slopes down towards the proposed dam site, the clearing of native vegetation in the application area is not likely to have an effect on the conservation area.

The proposed clearing area falls within the CAWS gazetted Warren River Reserve and is located in Zone B, a high salinity risk part of the Warren River Catchment. At least 10% native vegetation should remain on the applicant's 1978 holding area to mitigate the impact of salinity in this area (DoW, 2010). The proposed clearing would leave approximately 8.5% native vegetation on the land holdings (DoW, 2010). Given this the application is at variance to Principle (i). Revegetation of 2ha within the same land holdings will mitigate impacts associated with the clearing.

Given the size of the area under application (1 ha of vegetation) and high level of native vegetation remaining within the local area (approximately 60%), the proposed clearing is not likely to impact on biodiversity values or cause appreciable land degradation.

The proposed clearing is considered to be at variance to principles (f) and (i) and not likely to be at variance to the remaining clearing principles.

- Methodology** **References**
- DEC (2010)
 - DoW (2010)
 - Keighery (1994)
 - Mattiske and Havel (1998)
 - Shepherd (2009)
- GIS Datasets**
- Soils, Statewide DA
 - Mattiske vegetation complexes (1998)
 - SAC Bio Datasets (10/08/10)

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

Comments

Department of Water (DoW) advises that the proposal area lies within the CAWS gazetted Warren River Reserve. The property is located in Zone B, a high salinity risk part of the Warren River Catchment where DoW guidelines for granting licences for construction of a dam in a CAWS Act area state that native vegetation should be retained on at least 10% of the holding area in the interests of good agricultural and conservation practice. DoW recommends that a 30 metre wide local provenance vegetation area be established around the perimeter of the full storage reservoir level and any remaining offset establishment requirement could be continued upstream along the watercourse to link up with remaining trees. The offset establishment area should be protected by fencing to exclude stock (DoW 2010).

The applicant has proposed to undertake 2 ha of revegetation within the property, which does not include the perimeter of the dam as this does not suit the current farm practices. Conditions to manage the proposed revegetation will mitigate the environmental impact of the proposed clearing.

The applicant has applied for a RIWI Permit to Interfere with Beds and Banks and an associated Surface Water Licence and these are expected to be executed soon (DoW, 2010).

- Methodology** **References**
- DoW (2010)

4. References

DEC (2010) Site Inspection Report for Clearing Permit Application CPS 3845/1, Lot 11 Ralph Road, Balbarurp. Site inspection undertaken 11/08/2010. Department of Environment and Conservation, Western Australia (DEC Ref. A324610).

DoW (2010) Department of Water direct interest letter dated 10 August 2010. (DEC Ref. A324651)

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.

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.

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)