

# **Clearing Permit Decision Report**

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## 1. Application details

1.1. Permit application details

Permit application No.:

1671/1

Permit type:

Area Permit

1.2. Proponent details

Proponent's name:

David Neville Mottram

1.3. Property details

Property:

1.5

LOT 4 ON DIAGRAM 14233 ( UPPER WARREN 6258) LOT 320 ON PLAN 252116 ( UPPER WARREN 6258)

Local Government Area:

Colloquial name:

Shire Of Manjimup

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

For the purpose of:

Mechanical Removal

Dam construction or maintenance

were the elaptoletic established appropria-

#### 2. Site Information

## 2.1. Existing environment and information

## 2.1.1. Description of the native vegetation under application

#### **Vegetation Description**

Beard vegetation association 3: Medium forest of Jarrah Marri

Mattiske Vegetation complex WH1: Tall open forest of Eucalyptus diversicolor-Corymbia calophylia on slopes and tall open forest of Eucalyptus patens on valley floor in perhumid and humid zones.

## Clearing Description

The area proposed to be cleared is on a property bordered upslope and to the south by pine plantations under the Conservator of Forests. The Conservation Commission Tone State Forest lies to the east of the property and extends to the south of these pine plantations, with the Conservation Commission **Greater Dardagup National** Park immediately to the south of the State Forest.

The vegetation proposed to be cleared is positioned on the midslope valley in the landscape and comprises the riparian zone of a stream channel. The area proposed to be cleared is also in the buffer zone of an area subject to an ATR. The native vegetation is unfenced with livestock allowed to freely graze. The area is also being actively logged and thinned. A site visit on 1 May 2007 assessed the vegetation as good to poor with no understorey and a heavy infestation of bulrush and blackberry.

#### Vegetation Condition

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)

#### Comment

DEC site report (May 2007); DAFWA Site Report (April 2007); GIS databases: Pemberton 1.4m Orthomosaic (DOLA 1999); Mattiske Vegetation (CALM 1998); Interim Biogeographic Regionalisation of Australia (EA 2000); Shepherd et al (2006)

## Assessment of application against clearing principles

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

Comments

Proposal is not likely to be at variance to this Principle

The area proposed to be cleared is on a property bordered to the south by pine plantations under the

Conservator of Forests. The Conservation Commission Tone State Forest lies to the east of the property and extends to the south of these pine plantations, with the Conservation Commission Greater Dardagup National Park immediately to the south of the State Forest. It is also in the riparian buffer zone of native vegetation subject to an Agreement To Reserve (ATR).

Given that the degraded native vegetation proposed to be cleared has been subject to grazing and is weed infested, it is unlikely to have higher biological diversity than other native vegetation in the local area.

#### Methodology

Site visit (2007); SAC Biodatasets (2007); GIS databases: Manjimup 1.4m Orthomosaic (2000); Manjimup 1.4m Orthomosaic (2004); Clearing Regulations - Environmentally Sensitive Areas (DOE 2005); Interim Biogeographic Regionalisation (EA 2000); Mattiske Vegetation (DEC 1998); DEC Managed Lands & Waters (DEC 2005); Cadastre (DLI 2006)

(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

#### Comments

Proposal is not likely to be at variance to this Principle

There are four records of threatened fauna situated between three and ten km of the area proposed to be cleared. The site visit conducted on 11 May 2007 reported no fauna or evidence of fauna species of biodiversity significance.

Given the degraded nature of the native vegetation proposed to be cleared, it is unlikely that the site would provide significant habitat for fauna species in the local area, nor for native fauna communities or metapopulations.

Methodology

Site report (May 2007); SAC Biodatasets 15/060/07; GIS databases: Manjimup 1.4m Orthomosaic (2000); Manjimup 1.4m Orthomosaic (2004); Threatened Fauna (CALM 2005)

(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

#### Comments

Proposal is not likely to be at variance to this Principle

One reporting of Priority (P3) flora, Marianthus sp. Walpole, has been recorded as occurring 4km to the east of the area proposed to be cleared. No Declared Rare Flora is known to occur within a ten km radius of the area proposed to be cleared.

Given the degraded and weed infested condition of the vegetation proposed to be cleared, it is unlikely that the area is necessary for the continued existence of Declared Rare or Priority Flora.

#### Methodology

SAC Bio datasets 18/06/07; GIS Databases: Manjimup 1.4m Orthomosaic (2000); Interim Biogeographic Regionalisation (DA 2000); Declared Rare and Priority Flora (CALM 2005); Clearing Regulations - Environmentally Sensitive Areas (DoE 2005)

(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

#### Comments

Proposal is not likely to be at variance to this Principle

No listed Threatened Ecological Communities occur within a 10km radius of the area proposed to be cleared. No other significant ecological communities are known to occur within a ten km radius of the area proposed to be cleared.

It is unlikely that the native vegetation proposed to be cleared is necessary for the continued existence of Threatened or Significant Ecological communities.

Methodology

SAC Bio datasets 18/06/07; GIS Databases: Threatened Ecological Communities (CALM 2005); Clearing regulations - Environmentally Sensitive Areas (DoE 2005)

(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

Pre-European	Current extent (ha)*	Remaining (ha)*	Conservation (%)*
IBRA Bioregion - Warren***	851 529	739 273	86.8
Shire of Manjimup	698 224	599 102	85.8

Vegetation type: Beard: assoc 3 Medium forest Jarrah-marri	2 662 058	1 884 029	70.8
Mattiske: WH1 Wheatley	183 280	142 945	78.0

<sup>\* (</sup>Shepherd et al. 2001)

The vegetation to be cleared is well represented in the bioregion, in the local shire area and in nearby DEC managed land and Reserves. The clearing of the 2ha of native vegetation under application is therefore not likely to adversely impact on the vegetation type being cleared

Methodology GIS Databases: Manjimup 1.4m Orthomosaic (2000); Manjimup 1.4m Orthomosaic (2004); NLWRA Current Extent of Native Vegetation (DA 2001): Mattiske Vegetation (CALM 1998); Interim Biogeographic Regionalisation of Australia (EA 2000); Pre-European Vegetation (DA 2001)

#### Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

#### Comments

#### Proposal is at variance to this Principle

The native vegetation proposed to be cleared is growing in the riparian zone of on a third order stream with links to the Warren River approx 1km to the north. The area proposed to be cleared also forms the buffer area of the adjacent ATR parcel of native vegetation.

The native vegetation proposed to be cleared is therefore growing in an environment associated with a watercourse or wetland.

#### Methodology

GIS Databases: Agreement to Reserve (ATR) DAFWA (2005); Manjimup 1.4m Orthomosaic (2004); Hydrography, Linear (DoE 2004); Hydrographic Catchments (DoE 2003); Clearing Regulations - ESAs (DoE 2005); Topographic Contours, Statewide (DOLA 2002)

(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

#### Comments

#### Proposal is not likely to be at variance to this Principle

A site visit and land degradation assessment has been undertaken by DAFWA. The landform of the area proposed to be cleared is described as shallow minor valleys on colluvium with a weathered mantle over gneiss. Soils are described as loamy gravels, friable red/brown earths, duplex sandy gravels and brown loamy earths.

That assessment reported no known salinity occurring or observed onsite or offsite. Wind erosion was considered unlikely due to the soil types present. The report concluded that the proposed clearing was unlikely to cause appreciable land degradation.

#### Methodology

DAFWA Site Report 24/05/07: GIS Databases: Groundwater Salinity Statewide (DOW 2000): Hydrogeology, Statewide (2002); Soils Statewide (DA 1999)

## (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or hearby conservation area.

### Comments

### Proposal is at variance to this Principle

The area proposed to be cleared is on a property downstream of pine plantations under the Conservator of Forests. The Conservation Commission Tone State Forest lies to the east of the property and extends to the south of these pine plantations, with the Conservation Commission Greater Dardagup National Park immediately to the south of the State Forest.

Between the area proposed to be cleared and the State Forest on the eastern boundary is an area of native vegetation subject to an ATR. The area proposed to be cleared is within the buffer zone of this ATR. The native vegetation proposed to be cleared therefore provides a buffer to this ATR conservation area. This buffer has been amended by the Department of Agriculture and Food not to include the application area.

The site visit undertaken on 11 May 2007 by DEC staff observed no fauna or evidence of fauna, but concluded that the creek amid the vegetation proposed to be cleared is a potential water source for any fauna in the buffer zone or in the ATR. It is therefore likely that the native vegetation proposed to be cleared contributes an ecological linkage to the conservation ATR area. This buffer has been amended by the Department of

<sup>\*\*\*</sup> Within the Intensive Landuse Zone

Agriculture and Food not to include the application area.

Methodology

DAFWA Site Report 24/05/07: GIS Databases: CALM Managed Lands & Waters (DEC 2005); Cadastre (DLI 2006); WRC Estate (DOE 2004)

Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

#### Comments

Proposal is not likely to be at variance to this Principle

The native vegetation proposed to be cleared lies in the high rainfall Warren River Catchment, has low groundwater salinity (500-1000ppm) and low permeability granitoid hydrogeology.

The DAFWA site assessment reported the proposed removal of 2ha of native vegetation for dam construction was unlikely to increase the risk of eutrophication or salinity.

It is therefore unlikely that the proposed clearing would cause deterioration in the quality of surface or groundwater.

Methodology

DAFWA Site Report (April 2007); GIS databases: Evaporation Isopleths (BOM 1998); Mean Annual Rainfall Isohyet (DoE 2005); Hydrographic Catchments (DoE 2003); RIWI Act Groundwater Areas (DOW 2000)

Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

#### Comments

Proposal is not likely to be at variance to this Principle

The property has a hydrogeography of granitoid rocks with low permeability gneiss and it is in an area of high annual rainfall (100mm) with a relatively low evaporation. Having a topographic 10m decline over the length of the area proposed to be cleared, and a high position in the catchment, it is reasonable to conclude that runoff would be captured in the proposed dam.

It is therefore unlikely that the proposed clearing will cause or exacerbate the incidence or likelihood of flooding.

The DAFWA site assessment similarly concluded that the proposed clearing of 2ha of native vegetation presented a low risk of flooding.

Methodology

DAFWA site report (April 2007); GIS Databases: Manjimup Orthomosaic (DLI 2004); Topographical Contours Statewide (DOLA 2002); Rainfall, Mean Annual (BOM 1999); Hydrogeology, Statewide (WRC 2002); Hydrographic Catchments (DOE 2003).

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

#### Comments

The area proposed to be cleared is in the buffer zone of an Agreement To Reserve (ATR), and is listed as minimum intervention, remnant vegetation cover under the National Land & Water Resources Act (NLWRA). A permit to construct a dam has been issued by the Department of Water. Furthermore, the ATR has been amended by the Department of Agriculture and Food Western Australia not to include the application area.

DOW has also advised that the proponent must apply for a license to modify bed and bank for dams in the riparian zone of the creek line. And, because compensation has already been paid for retention of this native vegetation, a licence to clear will also be required under the CAWS Act. Licence number 2035/1 has been issued by the Department of Water.

One Aboriginal Site of Significance exists 9km to the northwest of the area proposed to be cleared, and one 7.5km to the east of the area proposed to be cleared.

There is also a native title claim - Wagyl Kaip - over the area under application. As the property is privately owned the granting of the clearing permit would be a secondary approval and does not constitute a future act under the Native Title Act 1993.

Methodology

GIS Databases: Manjimup orthomosaic (DLI 2000); Manjimup orthomosaic (DLI 2004); CAWSA (DOW 2004); Aboriginal Sites of Significance (DIA 2007); Native Title Claims (DLI 2005); NLWRA Land Use DAFWA 2001); RIWI Act Groundwater & Surface Water Areas (WRC 2002)

## Assessor's comments

Purpose Method Applied

Comment

area (ha)/ trees

Dam Mechanical construction oRemoval maintenance

The proposal is for the clearing of 1.5ha of native vegetation along a creek line for the purpose of dam construction.

The assessable criteria have been addressed and the proposal is at variance to principles (f) and (h), is not likely to be at variance to principles (a), (b),(c), (d), (g), (i) and (j) and is not a variance to principle

## 5. References

DAFWA Land degradation assessment report. Office of the Commissioner of Soil and Land Conservation, Department of Agriculture and Food Western Australia. DoE TRIM ref 23425.

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 Consulting (1998) Mapping of vegetation complexes in the South West forest region of Western Australia, CALM. Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.

## 6. Glossary

Meaning Term **BCS** Biodiversity Coordination Section of DEC CALM Department of Conservation and Land Management (now BCS) DAFWA Department of Agriculture and Food Department of Environment and Conservation DEC Department of Environmental Protection (now DEC) DEP

Department of Environment DoE

Department of Industry and Resources DolR

DRF Declared Rare Flora

**EPP Environmental Protection Policy** GIS Geographical Information System ha Hectare (10,000 square metres) Threatened Ecological Community **TEC** 

Water and Rivers Commission (now DEC) **WRC** 

