

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.:

1955/

Permit type:

Purpose Permit

1.2. Proponent details

Proponent's name:

Shire of Nannup

Shire Of Nannup

1.3. Property details

Property:

ROAD RESERVE (LAKE JASPER 6260) ROAD RESERVE (PEERABEELUP 6260)

NELSON LOCATION 13390 (LAKE JASPER 6260) LOT 13101 ON PLAN 211137 (LAKE JASPER 6260) LOT 13101 ON PLAN 211137 (LAKE JASPER 6260)

Vegetation Condition

Very Good: Vegetation

disturbance (Keighery

structure altered;

obvious signs of

1994)

ROAD RESERVE (LAKE JASPER 6260) ROAD RESERVE (LAKE JASPER 6260)

Local Government Area: Colloquial name:

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

Mechanical Removal

For the purpose of:

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

Beard Vegetation Associations:

- 3 & 975 (Nornalup):
 Medium woodland; jarrahmarri; Low woodland; jarrah

- 23 (Scott River): Low woodland; jarrah-banksia (Shepherd et al. 2001)

Scott (Sd), (Sd2), (Swd):
Low open forest and low
woodland of Eucalyptus
marginata subsp.
marginata-Corymbia
calophylla-Agonis flexuosa
with some Eucalyptus
patens and Banksia spp.
on low dunes to low
woodland of Melaleuca
preissiana-Banksia
littoralis on inter-dune
depressions in hyperhumid
and perhumid zones.

(Mattiske Consulting, 1998).

Clearing Description

The proposal involves clearing approximately 5.0 hectares of native vegetation for road upgrades.

The vegetation under application comprises predominantly understorey species, i.e. Taxandria sp. that ranges from good to excellent condition, and approximately 10 jarrah trees (DEC Site Visit, 2007).

The existing road reserve contains a 4m wide sand track that requires widening up to 10m and at 6 water crossings up to 20m wide. A majority of the vegetation is regrowth from previous slashing/clearing activities (DEC Site Visit, 2007).

Comment

The description of the clearing application area is based on a site inspection by DEC officers on 12 September 2007.

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 proposal is for the clearing of approximately 5 hectares of understorey regrowth and several individual trees for the purpose of road upgrades. The vegetation under application is considered to vary in condition from

good to excellent (Keighery, 1994; DEC Site Visit, 2007).

The road reserve under application is located within the DEC-managed D'Entrecasteaux National Park and is surrounded by an extensive vegetated area comprising a diversity of complexes and landscapes, in better condition than that proposed for clearing.

Based on the above information, it is considered unlikely the proposed clearing represents a high level of biodiversity, in comparison to the larger areas of remnant vegetation within the local setting.

Therefore, the proposal is unlikely to be at variance to this principle.

The proposed clearing site falls within a dieback risk area. Dieback conditions are recommended to ameliorate the spread of dieback to uninfected areas.

Methodology

Keighery (1994);

DEC Site Visit (2007);

GIS Databases:

- CALM Managed Lands and Waters CALM 1/6/04;
- Donnelly 50cm ORTHOMOSAIC DLI04

(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

The majority of vegetation under application comprises regrowth shrub species and approximately 10 jarrah trees (DEC Site Visit, 2007).

Despite the applied area occurring within the D'Entrecastaux National Park, the proposed clearing is unlikely to be providing significant habitat for indigenous fauna, given its small size (5 ha) and linear shape (10m wide).

Therefore, the proposal is unlikely to be at variance to this Principle.

Methodology

DEC Site Visit (2007);

GIS Databases:

- CALM Managed Lands and Waters - CALM 1/6/04;

(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

The applied track has been previously cleared and maintained by DEC for park maintenance purposes and fire hazard reduction. A majority of the vegetation under application is regrowth within this area.

Despite records of several populations of rare and threatened flora within a 10 km radius, the applied area is an existing track through a large National Park managed for conservation purposes. Considering these factors, it is unlikely that the proposed clearing is at variance to this Principle.

Methodology

GIS Databases:

- Vegetation Complexes DEC 14/9/07;
- Soils, Statewide DA 11/99;
- DEFL SAC Bio dataset 14/9/07

(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

There are no known occurrences of threatened ecological communities (TECs) within 27 km of the proposed clearing.

Therefore, it is unlikely that the proposed clearing is at variance to this Principle.

Methodology

GIS Databases:

- Threatened Ecological Communities CALM 12/4/05;
- Environmentally Sensitive Areas DoE 30/5/05

(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.

Proposal is not likely to be at variance to this Principle					
Pre-European	Current extent	Remaining		Conservation Status	% In reserves/CALM
El constant residence de la constant	(ha)*	(ha)*	(%)*		managed land
IBRA Bioregions - Warren	834,053.950	657,114.138	78.8	Least Concern	46.7
Shire of Nannup	293,198	275,524	94.0	Least Concern	
Vegetation type:					
Beard: Unit 3	69,130	54,304	72.1	Least Concern	36.2
Beard: Unit 23	50,127	33,700	67.2	Least Concern	
Beard: Unit 975	20,924	15,971	76.3	Least Concern	
Mattiske Veg:					
Scott (Sd)	377,148	198,161	52.5	Least Concern	
Scott (Sd2)	1,010	858	84.9	Least Concern	
Scott (Sdw)	103,813	77,505	74.7	Least Concern	

The area under application is located in the Shire of Nannup and within the Warren Bioregion. The extent of pre-European vegetation within these areas is 94.0% and 78.8% respectively (Shepherd et al., 2001; Shepherd, 2006).

The vegetation proposed to be cleared is a component of Beard Vegetation Associations 3, 23 and 975 (Hopkins et al., 2001) of which there is 72.1%, 67.2 and 76.3% respectively of the pre-European vegetation extent remaining (Shepherd, 2006). These vegetation types are considered as having a conservation status of Least Concern (Department of Natural Resources and Environment, 2002).

The proposed clearing also forms a component of the several Scott Complexes (Sd), (Sd2) and (Swd), of which there is 52.5%, 84.9% and 74.7% respectively remaining (Mattiske Consulting, 1998) and also has a conservation status of Least Concern (Department of Natural Resources and Environment, 2002).

The proposed clearing does not fall within an extensively cleared area and the pre-European extent of the Warren Bioregion, Beard Vegetation Associations and Mattiske Vegetation Complexes of the area under application meet the National Objectives Targets for Biodiversity Conservation 2001 - 2005 (being greater than 30% of that present pre-1750). Based on this, the vegetation under application is not considered to be significant as a remnant within an area that has been extensively cleared.

Methodology

Comments

Shepherd et al (2001);

Shepherd (2006);

Hopkins et al., 2001;

Mattiske Consulting (1998);

Department of Natural Resources and Environment (2002);

GIS Databases:

- Pre-European Vegetation DA 10/01;
- Interim Biogeographic Regionalisation of Australia EA 18/10/00;
- Mattiske Vegetation CALM 24/3/98

(f) 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

There are numerous permanant wetlands and areas subject to inundation associated with the proposed clearing. The Donnelly River, 400m east, also runs parallel with the road reserve under application.

The road reserve transects several water crossings and wetlands, therefore the proposed clearing is within an environment associated with watercourses and wetlands.

The clearing of riparian vegetation is therefore at variance to this Principle.

Methodology

GIS Databases:

- Hydrography, Linear DOE 1/2/04;
- Rivers, DOW;
- Geomorphic Wetlands, Augusta to Walpole DOE 18/6/03

(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

The purpose of clearing is for road upgrades of an existing track. The topography of the local area is of low relief with very shallow gradients, ranging from 10 - 25m AHD. The vegetation under application is not considered to be in an area associated with high salinity risk, and has a moderate to low risk of Acid Sulphate Soils, due to the surrounding wetlands.

Given the small and linear nature of the application area, it is unlikely that the proposed clearing would cause appreciable land degradation.

Methodology

GIS Databases:

- Topographic Contours, Statewide DOLA 12/09/02;
- Acid sulphate Soil Risk Map, Lower south West DEC;
- Salinity Risk LM 25m DOLA 00

(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 nearby conservation area.

Comments

Proposal is not likely to be at variance to this Principle

The road reserve under application is located within the DEC-managed D'Entrecasteau National Park, an area of high conservation value.

The proposed clearing is to improve the current access into the National Park, to assist with fire breaks and aid management purposes.

The small and linear nature of the application area is unlikely to compromise the environmental values of the National Park. However, due to the proposed clearing site falling within a dieback risk area, dieback conditions are recommended to ameliorate the spread of dieback to uninfected areas.

Methodology

GIS Database:

- CALM Managed Lands and Waters - CALM 1/07/05

(i) 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 proposed clearing site falls within the Hardy Estuary - Blackwood River Catchment. The region is of low relief with an annual rainfall of 1100mm. Groundwater salinity is mapped at less than 500mg/L TDS (Total Dissolved Solids).

The small and linear nature of the application area is unlikely to cause deterioration of local water quality.

Methodology

GIS Databases:

- Hydrographic Catchments Catchments DOE 23/03/05;
- Rainfall, Mean Annual BOM 30/09/01;
- Topographic Contours, Statewide DOLA 12/09/02;
- Groundwater Salinity, Statewide 22/02/00

(j) 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

Due to the topography within the local area and the scale and nature of the proposed clearing, it is unlikely to exacerbate the incidence of flooding within the local area.

Methodology

GIS Database:

- Topographic Contours, Statewide DOLA 12/09/02

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

Comments

The road reserve is vested to the Shire of Nannup and services the DEC-managed D'Entrecastaeux National Park. The proposal is a joint project between the Shire, DEC and Main Roads WA.

No submissions have been received for this proposal.

There is a Native Title Claim over the area under application. The Department of Environment and Conservation's advertising of the application in the West Australian Newspaper constitutes legal notification of

the Native Title representative body for the purpose of the future act procedures under the Native Title Act 1993. No response was received from the representative body.

Methodology

GIS Database:

- Native Title Claims - DLI 07/11/05

Assessor's comments

Comment Purpose Method Applied

Mechanical Road construction oRemoval

maintenance

area (ha)/ trees 5

Assessment of the clearing application area revealed the proposal is at variance to Principle (f) and is not likely to be at variance to the remaining clearing principles.

Dieback and weed management conditions are recommended on the permit.

5. References

DEC Site Visit (2007). Department of Environment and Conservation, Western Australia. TRIM Ref: DOC33969. Department of Natural Resources and Environment (2002) Biodiversity Action Planning. Action planning for native biodiversity

at multiple scales; catchment bioregional, landscape, local. Department of Natural Resources and Environment, Victoria.

Havel, J.J. and Mattiske Consulting Pty Ltd (2002) Review of management options for poorly represented vegetation complexes, Conservation Commission.

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.

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

Term Meaning

Biodiversity Coordination Section of DEC BCS

CALM Department of Conservation and Land Management (now BCS)

DAFWA Department of Agriculture and Food

Department of Environment and Conservation DEC

DEP Department of Environmental Protection (now DEC)

DoE Department of Environment

Department of Industry and Resources DoIR

Declared Rare Flora DRF

Environmental Protection Policy EPP Geographical Information System GIS Hectare (10,000 square metres) ha

Threatened Ecological Community TEC

Water and Rivers Commission (now DEC) WRC