

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.:

1436/1

Permit type:

Area Permit

1.2. Proponent details

Proponent's name:

Ernest Crawford

1.3. Property details

Property:

LOT 4526 ON PLAN 161413 (BOWELLING 6225)

Local Government Area:

Colloquial name:

Shire Of West Arthur

1.4. Application

Clearing Area (ha)

No. Trees

400

Method of Clearing

Cutting

For the purpose of:

Hazard reduction or fire control

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

Heddle vegetation

Pindalup and Yarragil complex\in low to medium rainfall

Yalanbee and Dwellingup complex\in low rainfall

Clearing Description

The proposal is for the clearing up to 400 dead trees for fire prevention and hazard reduction. The vegetation is in good condition (Keighery, 1994) with little to no understorey.

Vegetation Condition

Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994) Comment

Vegetation condition was deemed to be good (Keighery, 1994) from aerial photography

Beard Vegetation Associations:

3 - Medium forest; jarrahmarri

Mattiske vegetation

Pindalup (Pn) - Open forest of Eucalyptus marginata subsp. thalassica-Corymbia calophylla on slopes and open woodland of Eucalyptus wandoo with some Eucalyptus patens on the lower slopes in semiarid and arid zones.

Yalanbee (Y5) - Mixture of open forest of Eucalyptus marginata subsp. thalassica-Corymbia calophylla and woodland of Eucalyptus wandoo on lateritic uplands in semiarid to perarid zones.

3. 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 400 dead trees for the purpose of hazard reduction and fire control.

The area under application is considered to be in good condition (Keighery 1994) with little or no understorey. The area also appears to have been grazed by livestock.

Based on the unlikely significance of the area to contribute to the maintenance of rare flora and TECs and the low significance of the areas habitat values, it is unlikely that the proposed clearing comprises a high level of biological diversity.

Methodology

Keighery (1994)

GIS databases:

- -Dinniup 50cm orthomosaic DLI04
- -Bridgetown 50cm orthomosaic DLI04
- -Darkan 50cm orthomosaic DLI03
- -Collie 50cm orthomosaic DLI04
- -CALM Managed Lands and Waters 1/07/05

(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 proposal is for the clearing of approximately 400 dead trees for hazard reduction and fire control. The vegetation has little or no understorey and is considered to be in good to degraded condition (Keighery, 1994). Within the local area (10km radius from the proposed area for clearing) there is one known record of Declared Threatened Fauna, a Bush-tailed Phascogale approximately 10km northeast of the proposed area, and one known record of Priority fauna.

Given the nature of the clearing and the surrounding vegetated area, the area under application is not considered to be significant habitat for fauna indigenous to Western Australia.

Methodology

GIS Databases:

- -CALM Managed Lands and Waters CALM 1/07/05
- -Dinniup 50cm orthomosaic DLI04
- -Bridgetown 50cm orthomosaic DLI04
- -Darkan 50cm orthomosaic DLI03
- -Collie 50cm orthomosaic DLI04
- -Threatened Fauna SAC Bio Dataset 05/06/07

(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

A desktop study found 3 known records of the Declared Rare Flora (DRF) for *Diuris micrantha* and one known record of *Rulingia sp Trigwell Bridge* and two known records of *Tetratheca similis* a Priority 2 species, occurring in the local area (10km radius).

Given the nature of the clearing and that it appears that the area has been grazed it is unlikely that the area includes or is necessary for the continued existence of, rare flora.

Methodology

GIS databases:

DEFL SAC Bio Datasets 05/06/07

- -Dinniup 50cm orthomosaic DLI04
- -Bridgetown 50cm orthomosaic DLI04
- -Darkan 50cm orthomosaic DLI03
- -Collie 50cm orthomosaic DLI04

(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 Threatened Ecological Communities or Priority Ecological Communities within a 20 km radius of the proposed area.

Methodology

GIS databases:

- -TEC SAC Bio Datasets 05/06/07
- -Dinniup 50cm orthomosaic DLI04
- -Bridgetown 50cm orthomosaic DLI04
- -Darkan 50cm orthomosaic DLI03
- -Collie 50cm orthomosaic DLI04

(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.

Comments	Proposal is not likely to be at variance to this Principle					
	Pre-European	Current extent	Remaining		Conservation **status	% In reserves/CALM
	IBRA Bioregions	(ha)*	(ha)*	(%)*		managed land
	-Jarrah Forest	4,506,674.56	2,426279.798	53.8	Least Concern	14
	Shire of West Arthur	282,614	84,226	29.8	Vulnerable	
	Vegetation type: Beard: Unit 3	2,390,534.711	1661219.499	69.5	Least Concern	16.3
	Mattiske:			75757 GN		
	Pindalup (Pn)	1,666,912	1,343,956	80.6	Least Concern	
	Yalanbee (Y5)	1,243,773	852,364	68.5	Least Concern	
	Heddle:					

NA

NA

Pdindalup and Yarragil

Complex in low rainfall

Yalanbee and Dwellingup

Complex\in low to medium rainfall

NA

The area under application is located in the Jarrah Forest Bioregion. The extent of pre-European vegetation within this area is 53.8% (Shepherd et al., 2001).

NA

NA

NA

NA

NA

NA

The proposal site falls within the Shire of West Arthur, which has been extensively cleared with 29.8% remaining of pre-European vegetation (Shepherd et al., 2001).

The Beard Vegetation Association of the area under application is 69.5% of the remaining pre-European vegetation (Hopkins et al., 2001). The Mattiske Complexes are Pindalup and Yalanbee with 80.6% and 68.5% remaining of pre-European vegetation respectively.

The area under application falls within the agricultural zone of EPA Position Paper No. 2. The EPA does not support the further reduction in native vegetation through clearing for agriculture and supports active management by landholders to maintain environmental values of remaining vegetation.

Given the area under application, nature of the clearing and the remaining vegetation in the area, the proposed clearing is not considered significant remanent vegetation in an extensively cleared area.

Methodology

GIS datasets:

- -Dinniup 50cm orthomosaic DLI04
- -Bridgetown 50cm orthomosaic DLI04
- -Darkan 50cm orthomosaic DLI03
- -Collie 50cm orthomosaic DLI04
- -Mattiske Vegetation CALM 24/3/98
- -Pre-European Vegetation DA 01/01
- -Heddle Vegetation Complexes DEP 21/06/95

(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 not likely to be at variance to this Principle

There are no watercourses or wetlands within the area under application. The closest watercourse is a minor non-perennial watercourse approximately 50m south of the area under application.

Given the distance to nearest watercourse and the vegetation complex present the area under application is unlikely to contribute to the values of the watercourse and is therefore not likely to be associated with the watercourse.

^{* (}Shepherd et al. 2001)

^{** (}Department of Natural Resources and Environment 2002)

^{***} Within the Intensive Landuse Zone

Methodology (

GIS Databases:

- -Hydrography, Linear DOE 1/2/04 -ANCA Wetlands - CALM 06/95
- -EPP Area DEP 06/95 -EPP Lakes - DEP 1/12/92
- -RAMSAR, Wetlands CALM 14/02/03
- (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

Due to the nature of the clearing, 400 dead trees, there will likely be no impact on the area leading to land degradation as the area will remain vegetated.

Methodology

GIS databases:

- Acid Sulphate Soil Risk Map, SCP DoE 01/02/04
- Salinity Risk LM 25m DOLA 00
- -Topographic contours, Statewide DOLA 12/09/02
- (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 areas proposed to be cleared do not lie within or adjacent to areas set aside for conservation. Given the nature of the clearing and the remaining surrounding vegetation in the local area, the proposal sites are highly unlikely to function as ecological linkages to nearby conservation areas.

Methodology

Keighery (1994)

GIS databases:

- CALM Managed Lands and Waters CALM 1/07/05
- Register of National Estate EA 28/01/03
- (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

Due to the nature of the clearing, 400 dead trees, it is unlikely to impact on the quality of surface or underground water as the area will remain vegetated. Though the area is in a Public Drinking Water Source Area, Wellington Dam Catchment Area, the CAWS Act does not cover the removal of dead trees.

Methodology

GIS databases:

- -Hydrographic Catchments, Catchments DOW
- -Rainfall, Mean Annual BOM 30/09/01
- -Public Drinking Water Source Areas (PDWSA) DOW
- (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 nature of the proposed clearing, it is unlikely to cause or exacerbate flooding within the local area.

Methodology

GIS databases:

- -Hydrography, linear -DOE 01/02/04
- -Topographic Contours, Statewide DOLA 12/09/02
- -Rainfall, Mean annual BOM 30/09/01

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

Comments

There is one Native Title claim over the area under application, as the property is privately owned the granting of the clearing permit is a secondary approval and does not constitute a future act under the Native Title Act 1993.

Methodology

GIS Database:

- Native Title Claims - DLI 07/11/05

4. Assessor's comments

Purpose Method Applied

Comment

area (ha)/ trees

Cutting Hazard reduction or fire control

The assessable criteria have been addressed, and the proposalis not likely to be at variance to

Principles (a), (b), (c), (d), (e), (f), (g), (h), (i) and (j).

5. References

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.

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., 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

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

DolR

Department of Industry and Resources

DRF

Declared Rare Flora

EPP GIS

Environmental Protection Policy Geographical Information System

ha

Hectare (10,000 square metres)

TEC

Threatened Ecological Community

WRC

Water and Rivers Commission (now DEC)

