

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.:

864/1

Permit type:

Purpose Permit

1.2. Proponent details

Proponent's name:

Shire of Capel

1.3. Property details

Property:

Local Government Area: Colloquial name:

Shire Of Busselton & Shire Of Capel

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

Mechanical Removal Mechanical Removal

Mechanical Removal

For the purpose of:

Road construction or maintenance 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

LUDLOW RD NTH -

Heddle: Yoongarillup complex: Woodland to tall woodland of E. gomphocephala with Agonis flexuosa in the second storey. Less consistently an open forest of E. gomphocephala - E. marginata - E. calophylla.

Mattiske: Ludlow veg complex: Open woodland of Melaleuca rhaphiophylla and sedgelands of Cyperaceae-Restionaceae spp. on broad depressions in the subhumid zone.

Beard: 6: Medium woodland; tuart & jarrah.

2: Tall woodland; tuart (Eucalyptus gomphocephala).

GAVINS RD -

Heddle: Southern River Complex: Open woodland of E. calophylla - E. marginata - Banksia species with fringing woodland of E. rudis - M. rhaphiophylla along creek beds.

Clearing Description

The vegetation is completely degraded with no understory or middle story species present. There is also extensive weed invasion from neighbouring pasture paddocks.

Vegetation Condition

Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)

Comment

Site visit photos taken on 28 Aug 2006 show the roadside vegetation under application.

The vegetation is completely degraded with no understory or middle story species present. There is also extensive weed invasion from neighbouring pasture paddocks.

Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994) Site visit photos taken on 28 Aug 2006 show the roadside vegetation under application.

Abba Complex: A mixture of open forest of E. calophylla ý E. marginata ý Banksia spp. and woodland of E. calophylla with minor occurrences of E. haematoxylon.

Woodland of E. rudis ý Melaleuca spp. along creeks and on flood plains.

Beard: 1000: Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree (Melaleuca spp.).

1136: Medium woodland; marri with some jarrah, wandoo, river gum and casuarina.

LOWRIE RD -

Heddle: Gilford Complex: A mixture of open forest to tall open forest of E. calophylla - E. wandoo - E. marginata and woodland of E. wandoo (with rare occurrences of E. lanepoolei). Minor components include E. rudis - M. rhaphiophylla.

Beard: 1136: Medium woodland; marri with some jarrah, wandoo, river gum and casuarina.

968: Medium woodland; jarrah, marri & wandoo.

HASTIES RD -

Heddle: Bassendean Central and Southern Complex: Vegetation ranges from woodland of E. marginata - C. fraseriana - Banksia spp. to low woodland of Melaleuca species, and sedgelands on the moister sites. This area includes the transition of E. marginata to E. todtiana in the vicinity of Perth.

Beard: 1000: Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree (Melaleuca spp.)

LILLYDALE RD -

Heddle: Southern River Complex: Open woodland of E. calophylla - E. marginata - Banksia species with fringing woodland of E. rudis - M. rhaphiophylla along creek beds.

Bassendean Central and Southern Complex:
Vegetation ranges from woodland of E. marginata - C. fraseriana - Banksia spp. to low woodland of Melaleuca species, and sedgelands on the moister sites. This area includes the transition of E. marginata to E. todtiana in the vicinity of Perth.

Beard: 1000: Mosaic: Medium forest; jarrah-marri

A 1km stretch within this road reserve is in very good condition the remaining 2.3 km of the road reserve is completely degraded with no understory or middle story species present. There is also extensive weed invasion from neighbouring pasture paddocks. Therefore a vegetation condition of Good has been selected to represent this road reserve.

Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994) Site visit photos taken on 28 Aug 2006 show the roadside vegetation under application.

The vegetation is completely degraded with no understory or middle story species present. There is also extensive weed invasion from neighbouring pasture paddocks.

Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994) Site visit photos taken on 28 Aug 2006 show the roadside vegetation under application.

The vegetation is completely degraded with no understory or middle story species present. There is also extensive weed invasion from neighbouring pasture paddocks.

Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994) Site visit photos taken on 28 Aug 2006 show the roadside vegetation under application.

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 total proposed clearing is 0.77 hectares. The extent of clearing into the road reserves will not exceed 2.5 m either side of the existing road, all roads excepting a 1km stretch in Lowrie Rd will involve the clearing of large mature trees only.

Based on the photographs of the vegetation proposed for clearing the condition of the vegetation varies between completely degraded and very good. One road was rated as having a condition rating of very good, being Lowrie Rd. This road may contain some biodiversity values, however given the small area proposed for clearing, removing the vegetation within the road reserves is unlikely to impact the overall biodiversity value of the local area.

To mitigate any loss of biodiversity within the road reserves and surrounding areas, the proposed clearing will be carried out in accordance with dieback and weed control conditions which will be placed on the permit.

Methodology

Site visit photos (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

The Shire is proposing to widen five existing roads, therefore the vegetation under application is within road reserves only.

The vegetation's condition varies from completely degraded to very good (Keighery, BJ 1994). All of the vegetation excepting a 1km stretch on Lowrie Rd is completely degraded with no under or middle story present and extensive weed invasion from neighbouring pasture paddocks has occured.

Given the degraded condition of much of the roadside vegetation it is unlikely the proposed clearing will have a significant impact on fauna species within the local area.

Methodology

Site Visit (2006)

(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 closest mapped species (Verticordia densiflora var. pendunculata) of Declared Rare Flora (DRF) is 1.3km from the proposed clearing. This species is a shrub to 0.6m. The vegetation type within Lowrie Road differs from the vegetation complex in which this DRF species is mapped.

All of the vegetation excepting a 1km stretch on Lowrie Rd is completely degraded with no understory or middle story species present and extensive weed invasion from neighbouring pasture paddocks. It is therefore unlikely the proposed clearing will impact on DRF in the local area.

Methodology

Site Visit (2006)

GIS Database: Declared Rare and Priority Flora List - CALM 01/07/05

(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

6 Threatened Ecological Communities (TEC) exist within the Shire of Capel. The closest occurrence of a TEC to an area under application is 2.5 km north of Lillydale Rd within the Bunbury Shire.

It is unlikely that this clearing proposal will effect TEC's in the local area.

Methodology

Site Visit (2006)

GIS Database: - Threatened Ecological Communities - CALM 15/7/03

(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

The proposed clearing is located across the shire of Capel and within the Swan Coastal Plain Bioregion. The extend of native vegetation within these areas is 35.9% and 41.8% respectively.

Mapped vegetation complexes with a conservation status of Vulnerable** (10 - 30% of pre-European extent remaining) occur within proposed clearing sites along Lillydale Rd, Hasties Rd, and a section of Gavins Rd.

Mapped vegetation complexes with a conservation status of Endangered**(<10% of pre-European extent remaining) occur within Lowrie Rd and sections of Gavins Rd.

Although a 1km stretch of Lowrie road represents very good vegetation condition the clearing of this vegetation will be minimal. A condition will be placed on the permit to avoid and minimise vegetation cleared.

The vegetation under application does not represent the complexes mapped within the area due to the degraded condtion of the vegetation. It is therefore unlikely the proposed clearing will be at variance to this principle.

Methodology

Site Visit (2006)

Department of Natural Resources and Environment (2002)

Havel (2002)

Heddle et al. (1980)

Hopkins et al. (2001)

Shepherd et al. (2001)

GIS databases:

- Mattiske Vegetation CALM 24/3/98
- Heddle Vegetation Complexes DEP 21/06/95
- Interim Biogeographic Regionalisation of Australia EM 18/10/00
- Local Government Authorities ý DLI 8/07/04
- Pre European Vegetation DA 01/01

(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

All of the areas under application are within road reserves that already exist. All watercourses have previously been diverted through culverts or under bridges (in some cases upgrades of these diversions are planned as part of the road widening).

Rivers that cross some of the roads under application, or are located in close proximity to, are Gynudup Brook and the Capel River. Although the proposed section of clearing on Ludlow Rd (between Forrest Beach Rd and Ludlow Hithergreen Rd) lies within 200m of an ANCA wetland and approximately 1.0 km from a RAMSAR wetland, works are not expected to compromise the status of either.

Due to the vegetation under application being contained in road reserves where existing roads exist and given the distance from EPP Lakes, Conservation Category and Resource Enhancement wetlands, this proposal is not likely to be at variance to this principle.

Methodology

Site Visit (2006)

GIS Database:

- Hydrography Linear (hierarchy) DoE 13/4/05
- ANCA, Wetlands CALM 08/01
- 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

The proposed clearing within the five road reserves may cause some short term land degradation issues in terms of localised flooding and soil erosion during works.

These issues however should be minimised as works on the existing roads and intersections have in place roadside infrastructure to prevent land degradation associated with roads ie. table drains and culverts.

Given the above the proposed clearing is not likely to be at variance to this principle.

Methodology Site Visit (2006)

(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 Ludlow Nth Road reserve borders Tuart Forest National Park for a length on 1.7km and Ludlow State Forest for a length of 2km. All other areas under application are not associated with conservation areas.

Due to the condition of the vegetation under application it is unlikely the proposed clearing will be at variance to this principle.

Methodology

Site Visit (2006)

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 within road reserves may cause some short term water quality issues in terms of localised surface water sedimentation during works. However these issues should be minimised as works on the existing roads and intersections have in place roadside infrastructure to prevent water quality issues associated with roads ie. table drains and culverts.

Due to the small and isolated areas proposed to be cleared for the associated roads works, it is unlikely the areas under application will cause salinity issues or increase water levels within the shire boundary

Methodology

Site Visit (2006)

(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 scale and the nature of the proposed clearing it is unlikely to exacerbate flooding in the local area.

Methodology

Site Visit (2006)

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

Comments

There are three Native Title Claims 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.

Gavins and Lowrie Rd are within mapped Aboriginal Sites of Significance the DEC will advise the proponent of their responsibilities under the Aboriginal Heritage Act 1972. This advise will be placed in the cover letter to this permit.

There are no other statutory approvals that are required to undertake the clearing

Methodology

4. Assessor's recommendations

| Purpose | Method | Applied area (ha)/ trees | Decision | Comment / recommendation |
|-------------------------------------|------------------------|--------------------------|----------|--|
| Road construction maintenance | Mechanical oRemoval | ` ' | | Ludlow North Road (1.2 SLK to Forrest Beach Road) |
| Road construction maintenance | | | | Mallokup Road (Bridge Approaches) |
| Road construction maintenance | | | | Lowrie Road (Boundary / Clarke) |
| Road construction maintenance | | | | Ludlow Road (Ludlow Town to SLK 1.2) |
| Road construction maintenance | 0.10 | | | Ludlow North Road (Peppermint Grove Rd to Mallokup Rd) |

Road Mechanical

construction oRemoval

maintenance

Road Mechanical construction oRemoval

maintenance

Road Mechanical

construction oRemoval

maintenance

Road Mechanical

construction oRemoval

maintenance

Road Mechanical

construction oRemoval

maintenance

Road Mechanical construction oRemoval

maintenance

Gavins Road (Elgin Road to Cain Road)

Lillydale Road (Queelup Rd to Lot 346)

Lillydale Road (Lot 346 to Allenville Rd)

Gavins Road (Washers Rd to Elgin Rd)

Hasties Road (Jules Rd to Jules Rd)

It is recomended the areas proposed to be cleared are granted.

All principles are not likely to be at variance to the principles.

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.

Heddle, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. In Department of Conservation and Environment, Atlas of Natural Resources, Darling System, Western Australia.

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.

Site Visit, 2006, Department of Environment and Conservation (DEC), Western Australia. TRIM ref DOC3723, DOC3707, DOC3700, DOC3696, DOC3694, DOC3683.

6. Glossary

WRC

Term Meaning

CALM Department of Conservation and Land Management

DAWA Department of Agriculture

DEP Department of Environmental Protection (now DoE)

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

Water and Rivers Commission (now DoE)