



1. Application details

1.1. Permit application details

Permit application No.: 2809/1

Permit type: Area Permit

1.2. Proponent details

Proponent's name: Mr Finn Henriksen

1.3. Property details

Property: LOT 801 ON PLAN 49675 (BULLSBROOK 6084)
 LOT 801 ON PLAN 49675 (BULLSBROOK 6084)
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 LOT 801 ON PLAN 49675 (BULLSBROOK 6084)

Local Government Area: City Of Swan

Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
11.5		Mechanical Removal	Extractive Industry

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
Beard Vegetation Association: 1020: Medium forest; jarrah-marri / Medium woodland; marri-wandoo (SAC Bio Dataset 21/11/2008, Shepherd 2007). Heddle Vegetation Complex: Reagan Complex: Vegetation ranges from low open woodland of Banksia species E. todiana to closed heath depending on the depth of soil. (Hedde et al. 1980).	The proposal is to clear 11.5 ha of native vegetation for sand extraction industry. The area under application consists of Eucalyptus accedens, E. marginata, E. calophylla, E. wandoo trees species over Dryandra sessilis and Hibbertia hypericoides which occur at low densities. The understorey and ground cover exists of pastures weeds.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Vegetation clearing description is based on information obtained from site photographs taken by proponent on 31 August 2007 and the Vegetation Site Assessment provided by the proponent as part of a Rehabilitation and Revegetation Management Plan (Land Insights 2007).

3. Assessment of application against clearing principles

Comments

The vegetation within the area under application comprises of Eucalyptus accedens, E. marginata, E. calophylla, and E. wandoo trees species over Dryandra sessilis and Hibbertia hypericoides, which occur at low densities and the groundcover, consists of pastures weeds (Land Insights 2007) and the vegetation under application is in a degraded condition. Given this, it is not considered likely for the area under application to comprise of a high level of biological diversity.

There are four recordings of conservation significant fauna within the local area (~5km radius). Given the lack of native understorey and the lack of preferred habitat for the fauna species identified in the local area, it is not considered likely for the area under application to provide significant habitat for local fauna.

There are 4 rare flora species occurring within the local area (~5km radius) they being Grevillea althoferorum, Grevillea curviloba, Acacia anomala and Darwinia foetida. They are located 1.4km northwest, 3.3km west, 3km south and 3.8km northwest of the area under application, respectively. The area under application does not contain native understorey or groundcover and does not contain suitable habitat for these species.

There are three Threatened Ecological Communities (TEC) that have been recorded in the local area (~5 km radius). They are the Floristic Community Type (FCT) SCP07: herb rich saline shrublands in clay pans recorded 1.9km northwest, FCT SCP20b: Banksia attenuata and/or Eucalyptus marginata woodlands occurring 2.3km southeast and FCT SCP3c: shrublands and woodlands on muchea limestone occurring 2.6km southwest of the area under application, respectively. Given that the vegetation under application comprises of Eucalyptus species over an understorey of pasture weeds and occurs on acidic yellow soils containing ironstone gravel (Northcote et al. 1960-68), it is not considered likely that the area would contain or be necessary for the maintenance of a threatened ecological community.

The area under application is not considered likely to be significant as a remnant of native vegetation.

The closest conservation reserve to the area under application is Bush Forever site 292 (Bullsbrook Nature Reserve and Adjacent Bushland, Bullsbrook), which is located ~600m west. Bushforever site 294 (Pearce Aerodrome and Adjacent Bushland, Bullsbrook) also occurs ~700m southwest from the area under application. The application area is not linked or adjacent to these reserves and therefore, it is considered unlikely for the proposed clearing to impact on the reserves environmental values.

There are numerous wetlands within the local area (5 km radius) with the closest being a Multiple Use Wetland occurring ~600m southeast of the area under application. The nearest Conservation Category Wetland (CCW) is 1.2km west of the area under application. The nearest watercourse is the Ellenbrook River, which occurs ~2.2 km west of the area under application. Given the distance to the nearest wetland and watercourse it is not considered likely for the application area to be growing in association with a wetland or watercourse.

The chief soils within the area under application are sandy acidic yellow mottled soils containing ironstone gravel associated with leached soils and hard acidic yellow soils containing ironstone gravel associated with brown sands (Northcote et al. 1960-68). The main land degradation risk with the identified soil types is water erosion and phosphorous export (Department of Agriculture 2005).

Given the limited vegetation within the area under application that is in a degraded condition, it is not considered likely that the proposed clearing would cause appreciable land degradation through water erosion or cause deterioration in surface or underground water quality. The limited clearing is not considered likely to have an impact on peak flood height or duration.

Methodology Reference
- Department of Agriculture (2005)
- Land Insights (2007)
- Northcote et al. (1960-68)
- Western Australian Herbarium (1998-)
GIS Databases
- Geomorphic Wetlands (Classification), Swan Coastal Plain
- Hydrography, linear (hierarchy)
- SAC Bio Dataset 21/11/2008

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

Comments

The proposal is to clear 11.5 ha of native vegetation for sand extraction industry.

The area under application is zoned Rural under the Metropolitan regional Scheme and General Rural under the City of Swan Town Planning Scheme

Development approval has been given by the Western Australian Planning Commission on the 2 July 2008 (Land Insight 2008).

Methodology The proponent is in the process of obtaining an Extractive Industry Licence.
References
- Land Insights (2008)
GIS Databases
- Metropolitan Regional Scheme Zones
- Town Planning Scheme Zones

4. Assessor's comments

Comment

The assessable criteria have been addressed and the clearing as proposed is unlikely to be at variance to the Principles.

5. References

- Department of Agriculture (2003) AgMaps Land Profiler CD-rom for the Shires of Boddington, Kwinana, Mandurah, Murray, Rockingham and Serpentine-Jarrahdale. Department of Agriculture, Western Australia. ISSN: 1448-235X.
- Hedde, 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.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Land Insights (2007) Rehabilitation and Revegetation Management Plan ? Sand Extraction ? Lot 801 Morrissey Road, Bullsbrook. Mt Lawley, Western Australia.
- Land Insights (2008) Clearing Application and Supporting Documents. TRIM Ref. DOC65871
- Northcote, K. H. with Beckmann G G, Bettenay E., Churchward H. M., van Dijk D. C., Dimmock G. M., Hubble G. D., Isbell R. F., McArthur W. M., Murtha G. G., Nicolls K. D., Paton T. R., Thompson C. H., Webb A. A. and Wright M. J. (1960-68): 'Atlas of Australian Soils, Sheets 1 to 10, with explanatory data'. CSIRO and Melbourne University Press: Melbourne.
- Shepherd, D.P. (2007). 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. Includes subsequent updates for 2006 from Vegetation Extent dataset ANZWA1050000124.
- Western Australian Herbarium (1998?). FloraBase ? The Western Australian Flora. Department of Environment and Conservation. <http://florabase.dec.wa.gov.au/> (Accessed xx/xx/xxxx).

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
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)

