



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4943/1
File Number: 2011/006783-1
Duration of Permit: From 1 June 2012 to 1 June 2014

PERMIT HOLDER

City of Armadale

LAND ON WHICH CLEARING IS TO BE DONE

Nicholson Road reserve, Piara Waters, 6112 (PIN11871385)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.2633 hectares of native vegetation within the area hatched yellow on attached Plan 4943/1.

CONDITIONS

1. Dieback and weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds* and *dieback*:

- a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- b) shall only move soils in *dry conditions*;
- c) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- d) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

DEFINITIONS

The following meanings are given to terms used in this Permit:

dieback means the effect of *Phytophthora* species on native vegetation

dry conditions means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

weeds means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20
of the Environmental Protection Act 1986*

10 May 2012

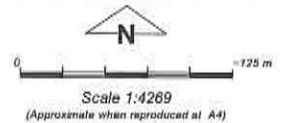
Plan 4943/1



LEGEND

- | | |
|------------------------------|--|
| Clearing Instruments | Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011 |
| Areas Approved to Clear | |
| Road Centrelines | |
| Cadastre for labelling | |
| Local Government Authorities | |

* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.



Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

Date 10/5/11
K Faulkner

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Department of Environment and Conservation

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1. Application details

1.1. Permit application details

Permit application No.: 4943/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: City of Armadale

1.3. Property details

Property: ROAD RESERVE (PIARA WATERS 6112)
Local Government Area: City of Armadale
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.263		Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 10 May 2012

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
The mapped Beard vegetation association 1001 is described as 'Medium very sparse woodland; jarrah, with low woodland; banksias and casuarina' (Shepherd, 2009).	The application is for the proposed clearing of 0.2633 ha of native vegetation within Nicholson Road reserve, Piara Waters, City of Armadale. The purpose of clearing is for road widening and service installation.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The condition of the vegetation was determined via digital imagery (Perth Metropolitan Central 15cm Orthomosaic - Landgate 2011) and a site inspection (DEC, 2012).
The mapped Hedde vegetation complex Southern River Complex (42) is described as 'Open woodland of Corymbia calophylla (Marri) - Eucalyptus marginata (Jarrah) - Banksia species with fringing woodland of Eucalyptus rudis (Flooded Gum) - Melaleuca raphiophylla (Swamp Paperbark) along creek beds' (Hedde et al 1980).	The vegetation consists of predominately melaleuca sp. No middle story is present and the understory consists completely of weeds (DEC, 2012).		

3. Assessment of application against clearing principles

Comments

The application proposes to clear 0.2633 hectares of native vegetation within Nicholson Road reserve, Piara Waters for the purpose of road widening and service installation. The vegetation consists of predominately melaleuca sp. No middle story is present and the understory consists completely of weeds (DEC, 2012).

Seven species of fauna considered rare or likely to become extinct under the Wildlife Conservation Act 1950 have been recorded within the local area (10km radius); Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black-Cockatoo), Calyptorhynchus latirostris (Carnaby's Cockatoo), Dasyurus geoffroii (Chuditch), Leioproctus douglasiellus (bee), Myrmecobius fasciatus (Numbat), Neopasiphe simplicior (bee) and Synemon gratiosa (Graceful Sun moth) (DEC 2007-). Given the small area under application and the degraded (Keighery 1994) condition of the vegetation it is unlikely the vegetation proposed to be cleared is necessary for the maintenance of significant habitat for fauna indigenous to Western Australia.

The area under application is mapped as Beard Vegetation Association 1001 (Shepherd, 2009). This vegetation association has approximately 25 per cent of its pre-European extent remaining within the Swan Coastal Plain bioregion (Shepherd 2009). The local area (5km radius) has been highly cleared (approximately 25 per cent vegetation remaining). Given its degraded nature and that the vegetation is not representative of the mapped vegetation type the area under application is not considered to be a significant remnant in an area which has been extensively cleared.

The application area is mapped within a Multiple Use Wetland and a Conservation Category Wetland is adjacent to the application area. Given the application area is located within Nicholson Road reserve and is in a

degraded (Keighery 1994) condition it is unlikely to have significant impact on the environmental values of the adjacent wetlands. However, as the application area consists of vegetation associated with a wetland, the proposed clearing is at variance to principle (f).

Piara Nature Reserve (Class C) and Bushforever site 262 are located adjacent to the west side of Nicholson Road. Given the small size of the proposed clearing area and the degraded (Keighery 1994) condition of the vegetation, it is unlikely the clearing as proposed will have an impact on the environmental values of the nearby conservation area.

The disturbance resulting from the proposed clearing will increase the risk of weeds and dieback spreading into the adjacent wetlands and reserves. Weed and dieback management practices will assist in mitigating this risk.

The assessment determined that the proposed clearing is not likely to significantly impact any biodiversity or environmental values; nor will it cause any appreciable land degradation within the local or regional context. Therefore, the proposed clearing is at variance to (f) and is not likely to be at variance to any of the remaining clearing principles.

Methodology

Reference:

- DEC (2007-)
- DEC (2012)
- Keighery (1994)
- Shepherd (2009)

GIS databases:

- DEC Tenure
- Pre-European vegetation
- Geomorphic Wetlands Swan Coastal Plain dataset
- SAC Biodatasets (Accessed April 2012).

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

Comments

The application is for the proposed clearing of 0.2633 hectares of native vegetation within Nicholson Road reserve, Piara Waters. The purpose of clearing is for road widening and service installation. The clearing of native vegetation is required as part of a project to install a dual carriageway and associated services along Nicholson Road.

Methodology

4. References

- DEC (2012) Site Inspection Report for Clearing Permit Application CPS 4943/1, Nicholson Road Reserve, Piara Waters. Site inspection undertaken 13 April 2012. Department of Environment and Conservation, Western Australia (DEC Ref:A485704)
- Heddlie, 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.
- Shepherd, D.P. (2009) 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.

5. 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)