



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 3351/1
Permit Holder:	City of Wanneroo
Duration of Permit:	10 January 2011 – 10 January 2016

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of road reconstruction.

2. Land on which clearing is to be done

Lot 301 on Deposited Plan 63775 (Hawkins Road reserve)

Lot 60 on Deposited Plan 63770

Lot 100 on Deposited Plan 63775

3. Area of Clearing

The Permit Holder must not clear more than 39 native trees and 0.04 hectares of native vegetation within the area hatched yellow on attached Plan 3351/1.

4. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

5. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the power to clear native vegetation for those activities under the *Local Government Act 1995* or any other written law.

6. Compliance with Assessment Sequence and Management Procedures

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

7. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- avoid the clearing of native vegetation;
- minimise the amount of native vegetation to be cleared; and
- reduce the impact of clearing on any environmental value.

8. Weed control

- (a) 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*:
- (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (ii) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (iii) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.
- (b) At least once in each 12 month period for the term of this Permit, the Permit Holder must remove or kill any *weeds* growing within areas cleared under this Permit.

Definitions

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

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;

weed/s 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*.

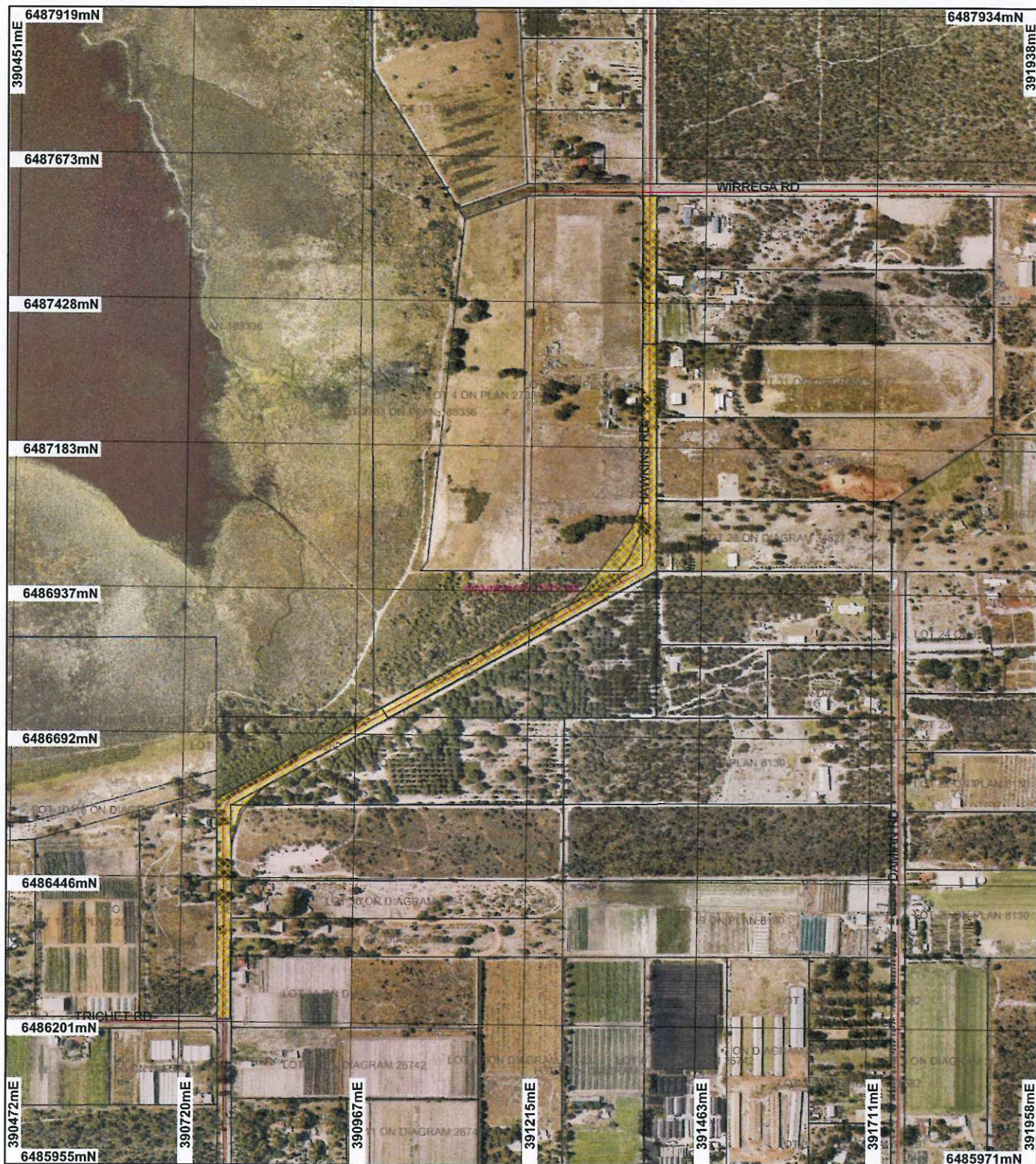


Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

15 December 2010

Plan 3351/1



LEGEND

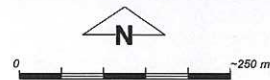
Clearing Instruments

- Areas Approved to Clear
- / Road Centrelines

Cadastre for labelling

- Local Government Authorities

Swan Coastal Plain North
20cm Orthomosaic - Landgate
2009



Scale 1:8695

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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

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.: 3351/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: City of Wanneroo

1.3. Property details

Property: ROAD RESERVE (JANDABUP 6077)
LOT 100 on DEPOSITED PLAN 63775 (FORMERLY LOT 2783 ON PLAN 188336)
LOT 60 on DEPOSITED PLAN 63770 (FORMERLY LOT 9000 ON PLAN 27034)
Colloquial name: Hawkins Road

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.04	39	Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: GRANT
Decision Date: 16 December 2010

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 949 - Low woodland; banksia (Shepherd 2007)	The proposal is to clear up to 0.04 ha of native vegetation and 39 native trees along Hawkins Rd in the City of Wanneroo for the purpose of road upgrades.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	The vegetation and clearing description is based on information provided in the Flora and Vegetation Survey (GHD 2008).
Heddlle: Karrakatta Complex - Central and South - predominantly open forest of E. gomphocephala - E. marginata - E. calophylla and woodland of E. marginata - Banksia species.	The vegetation condition across the site ranges from Completely Degraded (paddock land, residential gardens and pine plantation) to Very Good (some weed species present at low density, evidence of some grazing and historical logging) (GHD 2008).		
Pinjar Complex - Vegetation ranges from woodland of E. marginata - Banksia species to a fringing woodland of E. rudis - M. preissiana and sedgelands. (Heddlle et al 1980)			
As above	As above	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	As above

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 may be at variance to this Principle

The application is to clear up to 0.04ha of native vegetation and 39 native trees along Hawkins Road in the City of Wanneroo for the purpose of road upgrades. The vegetation under application ranges in condition from completely degraded to very good (Keighery 1994, GHD 2008).

Three rare and 4 priority fauna species have been recorded within the local area (5km radius) including Synemon gratiosa (Graceful Sunmoth), Calyptorhynchus latirostris (Carnaby's Black Cockatoo) and Botaurus poiciloptilus (Australasian Bittern). S. gratiosa requires Lomandra spp. host plants, and Lomandra hermaphrodita was found to occur within the surveyed area, vegetation unit BmHhMp (GHD 2008), however the extent of clearing within this vegetation unit is limited to 10 individual trees, and as such impacts to Lomandra

spp. and *S. gratiosa* are likely to be negligible. Additionally, *Eucalyptus marginata* and *Banksia* sp. within the application area has the potential to provide feeding habitat for *C. latirostris*. The vegetation may also be providing habitat to *Isodon ovesulus fusciventer* (Quenda). However, given the small clearing size (0.04ha and 39 trees), much of which contains vegetation in a degraded (Keighery, 1994) condition, the proposed clearing area is not likely to be providing significant habitat for native fauna.

Although 2 rare and 5 priority flora species have been recorded within the local area, flora surveys conducted in October 2008 throughout the area under application identified no rare or priority flora taxa (GHD 2008).

One threatened ecological community (TEC) and one priority ecological community (PEC) have been recorded within the local area, however the vegetation survey determined the floristic community types within the application area as not being listed a TEC or PEC (GHD 2008).

The vegetation under application is mapped as Beard Vegetation Association 949, of which 58.14% of the pre-European extent remains within the Swan Coastal Plain IBRA region (Shepherd 2009). The vegetation is also mapped as Heddle Vegetation Complexes Pinjar Complex and Karrakatta Complex Central and South, of which 23.30% and 25.71% of the pre-European extent remains (Heddle et al 1980), both of which are below the State Governments target of 30%. However, the EPA (2006) recognises the Perth Metropolitan Region as a constrained area, providing for the reduction of vegetation complexes to a minimum of 10% of the Pre-European extent.

The application area occurs within the buffer of Jandabup Lake, a conservation category EPP Lake. Wetland buffers protect wetlands against potential impacts and maintain ecological functions and processes (Water and Rivers Commission, 2001). Reducing wetland buffers can increase edge effects such as weed invasion, decrease biodiversity, reduce vegetation condition, impact on fauna habitat and impact on water quality of a wetland (DEC 2008). The clearing as proposed is therefore at variance to Principle (f), however, as the clearing is within existing road reserve and of a small, linear area, the likely impacts to this wetland are not likely to be significant.

Given the small extent of clearing, absence of understorey, and low species diversity and level of disturbance, the vegetation is not considered to comprise a high level of biological diversity. Additionally, as the clearing is of a small, linear area, significant land and water degradation is unlikely to result. The proposal does, however, have the potential to introduce or spread weed and dieback, and as such may be at variance to principle (a). The clearing is not likely to be at variance to the remaining principles.

Methodology

References:

- GHD (2008)
- Keighery (1994)
- Shepherd (2009)
- EPA (2006)
- Water and Rivers Commission (2001)
- DEC (2008)
- Heddle et al (1980)

GIS database:

- SAC Biodatasets - accessed 10 December 10
- Heddle Vegetation Complexes - DEP 22/06/95
- Pre European Vegetation - DA 01/01
- NLWRA, Current Extent of Native Vegetation 20 Jan 2001

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

Comments

Part of the vegetation to be cleared was located within Jandabup Nature Reserve, this section has been excised from the Reserve and is now part of Hawkins Road Reserve (Lot 301 on Plan 63775).

A portion of the area under application is zoned Rural under the town planning scheme, and as such approval from the WA Planning Commission has been obtained (DEC Ref: A3079240).

Amendment to Lot numbers in which clearing application relates to:

- * Lot 9000 on Plan 27034 has been retired and replaced with Lot 60 on Deposited Plan 63770
- * Lot 2783 on Plan 188336 has been retired and replaced with Lot 100 on Deposited Plan 63775
- * Lot 16 on Diagram 26742 has been retired. Clearing is now not required on this lot.

Methodology

GIS database:

- Cadastre - Landgate Dec 07
- Town Planning Scheme Zones - MFP 31/08/98

4. References

- DEC (2008) Memo re Standard Wetlands Advice for Native Vegetation Conservation Branch. Dated 17/07/2008. Species and Communities Branch, Department of Environment and Conservation, Western Australia (TRIM Ref. DOC59490).
- EPA (2006) Guidance for the Assessment of Environmental Factors - Level of Assessment for Proposals Affecting Natural Areas Within the System 6 Region and Swan Coastal Plain Portion of the System 1 Region. Guidance Statement No 10. Environmental Protection Authority, Western Australia.
- GHD (2008). Report for Proposed Realignment and Widening of Harwkins Road and Badgerup Road, Jandebup - Flora and Vegetation Survey. City of Wanneroo.
- 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.
- 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.
- Water and Rivers Commission (2001) Position Statement: Wetlands, Water and Rivers Commission, 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)