



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4106/1

File Number: 2010/010545-1

Duration of Permit: From 7 February 2011 to 7 February 2013

PERMIT HOLDER

City of Armadale

LAND ON WHICH CLEARING IS TO BE DONE

LOT 831 ON PLAN 62604 (ROLEYSTONE 6111)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.04 hectares of native vegetation within the area hatched yellow on attached Plan 4106/1.

CONDITIONS

Nil.

A handwritten signature in black ink, appearing to be "K Faulkner", written over a horizontal line.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH




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

13 January 2011

Plan 4106/1



LEGEND

- | | |
|---|-------------------------|
| Clearing Instruments | |
|  | Areas Approved to Clear |
|  | Road Centrelines |
|  | Cadastre |
- Swan Coastal Plain Central
20cm Orthomosaic - Landgate
2009



0 50 m

Scale 1:1771

(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 Date *13/1/11*

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



1. Application details

1.1. Permit application details

Permit application No.: 4106/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: City of Armadale

1.3. Property details

Property: LOT 831 ON PLAN 62604 (ROLEYSTONE 6111)
Local Government Area:
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.04		Mechanical Removal	Drainage

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 13 January 2011

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
<p>The vegetation under application is mapped as being composed of the following vegetation types:</p> <p>- Mattiske complex Yarragil 1 (Yg1): Open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i>-<i>Corymbia calophylla</i> on slopes with mixtures of <i>Eucalyptus patens</i> and <i>Eucalyptus megacarpa</i> on the valley floors in humid and subhumid zones.</p> <p>- Beard vegetation association 4: Medium woodland; marri & wandoo</p> <p>(Mattiske and Harvel 1998; Shepherd, 2009).</p> <p>The vegetation under application no longer resembles either of the mapped vegetation types.</p>	<p>The area under application is considered to be degraded to completely degraded (Keighery, 1994), consisting predominantly of scattered <i>Casuarina</i> species, non-natives and weed species are present throughout the application area. Large portions of the area contain very little ground cover. The site is also prone to erosion during rain events (DEC, 2010).</p> <p>There 17 scattered <i>Eucalyptus</i> sp. that require clearing from within the alignment, however the majority of the application area consists of exotic species such as Willow weed (Weed of National Significance), Tagasaste, Morning glory and Fig trees (Supporting information, 2010). Scattered native ferns, juvenile <i>Grevillia</i> sp. and some pockets of <i>Juncus</i> sp. will be impacted by the proposed clearing (Supporting information, 2010).</p>	<p>Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)</p> <p>To</p> <p>Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)</p>	<p>The condition and description of the vegetation under application was determined via the use of aerial imagery and a DEC conducted site inspection (DEC, 2010).</p>

3. Assessment of application against clearing principles

Comments **Proposal is not likely to be at variance to this Principle**

The area under application is considered to be degraded to completely degraded (Keighery, 1994), consisting predominantly of scattered Casuarina species, non-natives and weed species are present throughout the application area. Large portions of the area contain very little ground cover. The site is also prone to erosion during rain events (DEC, 2010). The proposed clearing of 0.04 hectares is required in order to reduce erosion and prevent sedimentation entering the Canning River (Supporting information, 2010). The aim of the drain realignment is to improve the deeply incised drain by filling the existing channel and re-creating an alternate water path in the drainage alignment (Supporting information, 2010).

The vegetation to be cleared is growing in association with a minor non-perennial watercourse, known as Slab Gully, therefore the proposed clearing is considered to be at variance to principle (f).

There 17 scattered Eucalyptus sp. that require clearing from within the proposed drain realignment, however the majority of the application area consists of exotic species such as Willow weed (Weed of National Significance), Tagasaste, Morning glory and Fig trees (Supporting information, 2010). Scattered native ferns, juvenile Grevillia sp. and some pockets of Juncus sp. will be impacted by the proposed clearing (Supporting information, 2010).

The vegetation under application is not considered to be representative of the mapped vegetation types for the area.

Given the degraded to completely degraded (Keighery, 1994) condition of the vegetation to be cleared, the vegetation under application is not likely to offer significant habitat for fauna species of conservation significance, impact on rare or priority flora and considering that the purpose of the clearing is to decrease erosion, land degradation is unlikely to result.

To further reduce the impacts of clearing, the applicant has advised that revegetation works will occur along the banks of the realigned drain.

Methodology

References:

- DEC (2010)
- Keighery (1994)
- Supporting Information (2010)

GIS Databases:

- Swan Coastal Plain - Central 20cm Orthomosaic - Landgate 2009
- SAC Biodatasets (accessed Nov 2010)
- Pre European Vegetation (DA 2001)
- Hydrography linear - DOW 13/7/06
- Hydrography linear (hierarchy) - DoW 13/7/06
- Clearing Regulations, Environmentally Sensitive Areas (2009)
- Soils, Statewide DA 11/99

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

Comments

During a DEC conducted site inspection (DEC, 2011), clearing was observed to have occurred within the applied area. The majority of the species removed were exotic species; however some native species had inadvertently been removed. The applicant was contacted and informed DEC that the clearing of native species was not intended and was the result of a communication error between staff. The applicant advised DEC that all clearing activities within the applied area (including non-natives) had ceased and would not recommence until a clearing permit is granted.

A submission was received (Submission, 2010) highlighting past flood and erosion events that had occurred at the drain location and detailed concerns regarding water retention within the creek system associated with the proposed drain realignment. Erosion concerns have been addressed within the assessment; however the local government authority is responsible for the management of drainage. Any comments relating to drainage and water resource impacts to private property are not within the scope of this assessment.

Methodology

References:

- DEC (2010)
- Submission (2010)

4. References

DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4016/1, Crown Reserve 50582, Roleystone. Site inspection undertaken 6/01/2011. Department of Environment and Conservation, Western Australia (DEC Ref: A360246).

- 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.
- Submission (2010) Submission response to City of Armadale, Area Permit, Lot 831 on Deposited Plan 62604, Rolleston, City of Armadale, drain realignment, 0.04ha (CPS 4106/1 advertised in Public Notices 27 December 2010. DEC Ref: A360695
- Supporting information (2010) City of Armadale application to clear - Slab Gully. DEC Ref: A353841.

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)