



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 3950/1

File Number: 2010/006804-1

Duration of Permit: From 7 November 2010 to 7 November 2012

PERMIT HOLDER

Eugene Peter Henningheim

Gail Henningheim

LAND ON WHICH CLEARING IS TO BE DONE

Lot 9083 on Deposited Plan 201677

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 4.1 hectares of native vegetation within the area hatched yellow on attached Plan 3950/1.

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;

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*.

M G Warnock

A/ MANAGER

NATIVE VEGETATION CONSERVATION BRANCH

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

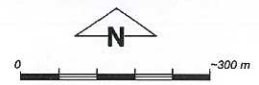
7 October 2010

Plan 3950/1



LEGEND

- | | |
|--|---|
| <p>Clearing Instruments</p> <ul style="list-style-type: none"> Areas Approved to Clear Road Centrelines Cadastral Towns | <p>Donnelly 50cm Orthomosaic - Landgate 2007</p> <ul style="list-style-type: none"> Local Government Authorities |
|--|---|



Scale 1:11527
(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.

M G Warnock Date 7/10/10

M G Warnock
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.



1. Application details

1.1. Permit application details

Permit application No.: 3950/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Eugene Peter and Gail Henningheim

1.3. Property details

Property: LOT 9083 ON PLAN 201677 (Lot No. 9083 STIRLING CHANNYBEARUP 6260)
Local Government Area:
Colloquial name:

1.4. Application

| Clearing Area (ha) | No. Trees | Method of Clearing | For the purpose of: |
|--------------------|-----------|--------------------|---------------------|
| 4.1 | | Mechanical Removal | Orchard |

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 Associations: 1144 - Tall forest; karri & marri 1 - Tall forest; karri 3 - Medium Forest Jarrah Marri Mattiske Vegetation Complex: Crowea (CRb) - Tall open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus diversicolor</i> on upper slopes with <i>Allocasuarina decussata</i> - <i>Banksia grandis</i> on upper slopes in hyperhumid and perhumid zones. Pemberton (PM1) - Tall open forest of <i>Eucalyptus diversicolor</i> with mixtures of <i>Corymbia calophylla</i> on valley slopes and low forest of <i>Agonis juniperina</i> - <i>Banksia seminuda</i> - <i>Callistachys lanceolata</i> on valley floors in the perhumid zone. | The proposal is to clear 4.1 hectares of native vegetation for the purpose of an orchard. | Degraded: Structure severely disturbed; regeneration to good condition requires intensive management to Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994) | The vegetation condition has been determined using available aerial photography. |

3. Assessment of application against clearing principles

Comments

The proposal to clear 4.1 hectares of native vegetation within the Shire of Manjimup for the purpose of an orchard is not likely to have any significant environmental impacts.

The area under application is considered to be in degraded to good (Keighery 1994) condition. There are several threatened fauna species which have been recorded in the local area (10km radius) however the area

under application is surrounded by extensive, intact native vegetation which may provide significant habitat for fauna species. The Donnelly State Forest borders the north west portion of the area under application and the vegetation to be removed is not likely to provide significant habitat for native fauna in a local context.

The area under application forms part of the South West Regional Ecological Linkage (SWREL) area which has a proximity value of 1a: a patch with an edge touching or <100m from a linkage (Molloy et al, 2009). Given that the area applied to be cleared will not fragment the patch identified in the SWREL analysis and considering that the area under application is surrounded by extensive, intact native vegetation in better condition the impacts on the linkage are not likely to be significant.

The application area lies within the Warren River Water Reserve which is subject to Country Areas Water Supply Act (1947) native vegetation clearing controls to prevent salinisation of water resources and is located in Zone D, a low salinity risk part of this catchment. If the proposed clearing is undertaken there will be ~12.4% native vegetation left on the property which is above the 10% minimum set by Department of Water policy and the clearing is unlikely to cause deterioration in the quality of surface or underground water. The proposed clearing does not include any riparian vegetation (DOW 2010).

There are no records of declared rare flora or threatened ecological communities within a 10km radius of the project. Given that the area to be cleared borders the Donnelly State Forest and considering that the applied area lies in a region that is subject to high levels of rainfall there may be increased potential for the spread of dieback (*Phytophthora cinnamomi*) or weed species through the movement of topsoil however dieback and weed management will minimise this potential risk.

The proposal is to clear 4.1 hectares of native vegetation in degraded to good (Keighery, 1994) condition and the vegetation to be cleared is well represented regionally and locally. Considering the high vegetation representation in the surrounding area, it is unlikely the proposal will be considered to cause or exacerbate land degradation or flooding and the proposed clearing is not likely to be at variance with any of the clearing principles.

- Methodology**
- Churchward H.M. (1992)
 - DOW (2010)
 - Keighery (1994)
 - Mattiske Consulting (1998)
 - Molloy (2009)
 - Shepherd et al. (2009)
 - GIS database:
 - Pre European Vegetation - DA 01/01
 - Mattiske Vegetation (01/03/1998)
 - Interim Biogeographic Regionalisation of Australia - EA 18/10/00
 - Donnelly 50cm Orthomosaic - Landgate 2007
 - SAC Biodatasets - accessed 21/09/2010
 - Hydrography linear - DOW 13/7/06
 - Salinity Risk LM 25m - DOLA 00
 - Topographic Contours, Statewide - DOLA 12/09/02- SAC Biodatasets - accessed 21/09/2010

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

Comments

Advice from the Department of Water has identified that the clearing of land for an orchard on this property does not require a Surface Water Licence under the RIWI Act.

Methodology

- GIS database:
 - Country Area Water Supply Act (Part IIA) Clearing Control Catchments 29/06/2006
 - RIWI Act, Groundwater Areas - DoW 13/07/06
 - RIWI Act, Irrigation Districts - DoW 13/07/06

4. References

- Churchward H.M. (1992) Soils and Landforms of the Manjimup Area. Land Resources Series No 10. Western Australian Department of Agriculture. - Accessed through DAFWA NRM Maps (SLIP)
- Department of Water (2010). Country Area Water Supply Advice. DEC Ref: A336543.
- 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, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment Australia.
- Molloy, S., Wood, J., Hall, S., Wallrodt, S. and Whisson, G. (2009) South West Regional Ecological Linkages Technical Report. Western Australian Local Government Association and Department of Environment and Conservation, Perth.
- 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) |