



## CLEARING PERMIT

*Granted under section 51E of the Environmental Protection Act 1986*

### PERMIT DETAILS

Area Permit Number: 4458/1  
File Number: 2011/005808-1  
Duration of Permit: From 26 September 2011 to 26 September 2013

### PERMIT HOLDER

Shire of Kalamunda

### LAND ON WHICH CLEARING IS TO BE DONE

Lots 3000 on Deposited Plan 44636 (Crown Reserve 17098, Forrestfield 6058)  
Lots 3001 on Deposited Plan 44636 (Crown Reserve 17098, Wattle Grove 6107)

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.5 hectares of native vegetation within the area shaded yellow on attached Plan 4458/1.

### CONDITIONS

#### 1. Dieback and weed control

The Permit Holder shall:

- (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* and *dieback*:
- (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
  - (ii) shall only move soils in *dry conditions*;
  - (iii) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
  - (iv) 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:

**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/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 Warnock  
A/MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

1 September 2011

# Plan 4458/1



## LEGEND

- Clearing Instruments**  
 ■ Areas Approved to Clear  
**Road Centrelines**  
 □ Cadastre for labelling
- Swan Coastal Plain Central  
 20cm Orthomosaic - Landgate  
 2009**



0 ————— 200 m

Scale 1:7212  
 (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 Warnock* Date 1.9.11

M 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.



Department of  
**Environment and Conservation**

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 4458/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Shire of Kalamunda

### 1.3. Property details

Property: LOT 3000 ON PLAN 44636 (House No. 199 HALE FORRESTFIELD 6058)  
LOT 3001 ON PLAN 44636 (House No. 265 HALE WATTLE GROVE 6107)

Local Government Area: Shire of Kalamunda

Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.5		Cutting	Fence Line Maintenance
		Cutting	Fence Line Maintenance

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 1 September 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
The vegetation under application is mapped as:	The application is for the proposed clearing of 0.5ha. 0.2 ha (970m long x 2m wide) is to occur on Lot 3001 (western side) Wattle Grove and 0.3 ha (1100m long x 2m wide) is to occur on Lot 3000 (eastern side) Forrestfield, within the Shire of Kalamunda. The purpose of clearing is for fence maintenance and construction.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	The condition and description of the vegetation was assessed during site visit (DEC 2011a).
Beard vegetation association: 968 medium woodland; jarrah, marri & wandoo (Shepherd 2009).		to	
Hedde vegetation complex: Southern River open woodland of <i>Corymbia calophylla</i> , <i>Eucalyptus marginata</i> , <i>Banksia</i> species with fringing woodland of <i>Eucalyptus rudis</i> , <i>Melaleuca raphiophylla</i> along creek beds (Hedde et al. 1980).	The vegetation under application consists of an overstorey of <i>Melaleuca</i> sp and <i>Corymbia calophylla</i> over a shrubland and herbland. The vegetation has been assessed as being in a good to excellent (Keighery 1994) condition (DEC 2011).	Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery 1994)	

## 3. Assessment of application against clearing principles

### Comments

The application is to clear 0.5 hectares of native vegetation along two pre-existing fence lines for the purpose of fence line maintenance and construction. The clearing of 0.2 ha (970m long x 2m wide) is to occur on Lot 3001, Reserve 17089 (western side) Wattle Grove and 0.3 ha (1100m long x 2m wide) is to occur on Lot 3000, Reserve 17089 (eastern side) Forrestfield, within the Shire of Kalamunda. The fence line maintenance and construction is a recovery action within the interim recovery plan of the declared rare species, *Conospermum undulatum*.

*Conospermum undulatum* (DRF) is recorded within the eastern and western fenceline application areas. The species is also recorded in the eastern and western portions of the reserve. *Banksia mimic* (DRF) is also recorded in the eastern and western side of the reserve but is not recorded within the application area.

*Verticordia lindleyi* subsp. *lindleyi* (P4) is recorded within the eastern fenceline application area and *Isopogon drummondii* (P3) is recorded within the western and eastern fenceline application areas. *Verticordia lindleyi*

subsp. lindleyi is also recorded within the western portion of the reserve.

A population of *Conospermum undulatum* was observed during the site investigation to occur within and adjacent to the eastern fence line application area (DEC 2011a). An additional targeted survey for *Conospermum undulatum* on the eastern side identified 6 individuals will be removed for the fence construction (DEC 2011b). However, this was not a detailed flora survey to identify other declared rare and priority flora occurring in this application area. An observation from a vehicle was the only survey undertaken in the western site. The removal of the 6 *Conospermum undulatum* individuals is envisaged to be minor and overall beneficial with the maintenance of the fence to protect the site (DEC 2011c). The vegetation under the application is at variance to principle (c).

The area under application is mapped as Beard Vegetation Association 968 (Shepherd, 2009). This vegetation association has approximately 7.2 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 (~15% vegetation remaining). Calculations of the pre-European extent remaining within the Swan Coastal Plain if the proposed clearing is undertaken indicates that 7.2 per cent of this vegetation association will remain. This indicates that the proposed clearing has a minimal affect on the vegetation associations representativeness on the Swan Coastal Plain.

The national objectives and targets for biodiversity conservation in Australia has a target to prevent clearance of ecological communities with an extent below 30 per cent of that present pre-1750, below which species loss appears to accelerate exponentially at an ecosystem level (Commonwealth of Australia 2001). Within constrained areas (i.e. areas of urban development in cities and major towns) on the Swan Coastal Plain and within the Greater Bunbury Region Scheme and Peel Region Scheme the target for representation of the pre-clearing extent of a particular native vegetation complex is 10 % (EPA 2006).

Vegetation association 968 retains less than the national recommended levels however, as the application area is long and linear and occurs in an area previously cleared for fence line construction, it is not identified as a significant remnant.

The application is within and is surrounded by a Conservation management category wetland. Wetland vegetation is identified within the application area (DEC 2011a). The application is at variance to principle (f).

With reference to the above information, the proposed clearing is at variance to principle (c) and (f) and is considered not likely to be at variance to the remaining principles.

References:

Commonwealth of Australia (2001)  
DEC (2011a)  
DEC (2011b)  
EPA (2006)  
Keighery (1994)  
Shepherd (2009).

GIS databases:

-Pre-European vegetation  
-Geomorphic Wetlands Swan Coastal Plain dataset  
-SAC Biodatasets (Accessed July 2011).

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

### **Comments**

Lots 3000 and 3001 are zoned as parks and recreation under the Local Town Planning Scheme and Metropolitan Regional Scheme.

Lots 3000 and 3001 are also known as Reserve 17089

The applicant has advised that an application for a permit to take 6 DRF has been submitted. DEC's Species and Communities Branch (DEC 2011c) advises that impact to DRF will be minor, and overall is beneficial with the maintenance of the fence to protect the site.

The Department of Planning (DoP 2011a) provided initial advice that the application is within Bush Forever area 320 Hartfield Park Bushland and that fence line repair and maintenance is necessary however the removal of DRF is not supported. DoP (2011) recommend that the fence is realigned as to not disturb the DRF or as mitigation for clearing, an offsets package is recommended to be prepared and implemented prior to the commencement of site works based on a ratio of 2:1; in accordance with EPA Position Statement No. 9 and State Planning Policy 2.8 (Government of Western Australia 2010).

It has since been identified that construction of a boundary fence is an action to be completed by the Shire of Kalamunda as part of the Public Transport Authority's clearing permit 158/2 Kewdale Freight Terminal offset project. DoP have been informed that construction of the fence is an offset action and have stated that there is

no need for the Shire of Kalamunda to undertake mitigation for the 0.5ha of clearing related to CPS 4458 (DoP 2011b).

It is considered that the application is consistent with State Planning Policy 2.8 objective is the establishment of a conservation at the regional level (through Bush Forever areas and to operate with the clearing controls under the Environmental Protection Act 1986) that is, as far as is achievable, comprehensive, adequate and representative of the ecological communities of the Swan Coastal Plain portion of the Perth Metropolitan Region (Western Australian Planning Commission 2010).

A permit to take declared rare flora has been applied for. The applicant noted during the site inspection that individuals of this rare flora species will be removed by hand and transplanted to another appropriate location within the reserve.

**Methodology**    References  
-DEC (2011c)  
-DoP (2011a)  
DoP (2011b)  
-Government of Western Australia (2010)  
- Western Australian Planning Commission (2010)

GIS databases  
-Cadastre  
-Town Planning Scheme Zones

#### 4. References

- Commonwealth of Australia (2001) National Objectives and Targets for Biodiversity Conservation 2001-2005, Canberra.
- DEC (2011a) Site Inspection Report for Clearing Permit Application CPS 4458/1, Lot 3000 and 3001, Hale Road, Wattle Grove and Forrestfield. Site inspection undertaken 26/07/2011. Department of Environment and Conservation, Western Australia.
- DEC (2011b) Email advice for Native Vegetation Conservation Branch CPS 4458/1. Dated 28/07/2011. Perth Hills District, Department of Environment and Conservation, Western Australia.
- DEC (2011c) Advice for Native Vegetation Conservation Branch CPS 4458/1. Dated 14/07/2011. Species and Communities Branch, Department of Environment and Conservation, Western Australia.
- DoP (2011a) Advice for Native Vegetation Conservation Branch, CPS 4458/1. Department of Planning Reference 805/2/1/40P320. Received 1/08/2011.
- DoP (2011b) Advice for Native Vegetation Conservation Branch, CPS 4458/1. Department of Planning Reference 805/2/1/40P320. Received 24/08/2011.
- 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.
- Government of Western Australia (2010) State Planning Policy 2.8. Government of Western Australia. Perth.
- 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. (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.
- Western Australia Planning Commission (2010) State Planning Policy 2.8 Bushland Policy for the Perth Metropolitan Region. Government of Western Australia. 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)