



## CLEARING PERMIT

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

### PERMIT DETAILS

Area Permit Number: 4680/1

File Number: 2011/006844-1

Duration of Permit: From 16 January 2012 to 16 January 2019

### PERMIT HOLDER

Shire of Esperance

### LAND ON WHICH CLEARING IS TO BE DONE

Lot 5 on Deposited Plan 61342 (Bandy Creek, 6450)

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 3.73 hectares of native vegetation within the area hatched yellow on attached Plan 4680/1.

### CONDITIONS

#### 1. Period in which clearing is authorised

The Permit Holder shall not clear any native vegetation after 9 January 2014.

#### 2. 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*:

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

#### 3. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) within 3 months following completion of extractive activities, *revegetate* and *rehabilitate* the area cross-hatched yellow on attached Plan 4680/1 by:
  - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
  - (ii) laying the vegetative material and topsoil retained under condition 3(a) on the cleared area
- (c) within 24 months of laying the vegetative material and topsoil on the cleared area in accordance with condition 3(b) of this Permit:
  - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
  - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 3(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native vegetation that will

result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.

- (d) Where additional planting or direct seeding of native vegetation is undertaken in accordance with condition 3(c)(ii) of this permit, the Permit Holder shall repeat condition 3(c)(i) and 3(c)(ii) within 24 months of undertaking the additional planting or direct seeding of native vegetation.
- (e) Where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 3(c)(i) and 3(c)(ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 3(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 3(c)(ii).

#### 4. Records to be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
  - (i) the species composition, structure and density of the cleared area;
  - (ii) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (iii) the date that the area was cleared; and
  - (iv) the size of the area cleared (in hectares).
- (b) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 3 of this Permit:
  - (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
  - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares);
  - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*, and
  - (v) a copy of the environmental specialist's report.

#### 5. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
  - (i) of records required under condition 4 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 9 October 2018, the Permit Holder must provide to the CEO a written report of records required under condition 4 of this Permit where these records have not already been provided under condition 5(a) of this Permit.

#### DEFINITIONS

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

***direct seeding*** means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

***environmental specialist*** means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or

equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

**local provenance** means native vegetation seeds and propagating material from natural sources within 20 kilometres of the area cleared.

**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;

**planting** means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

**regenerate/ed/ion** means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing *mulch*;

**rehabilitate/ed/ion** means actively managing an area containing native vegetation in order to improve the ecological function of that area;

**revegetate/ed/ion** means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area.



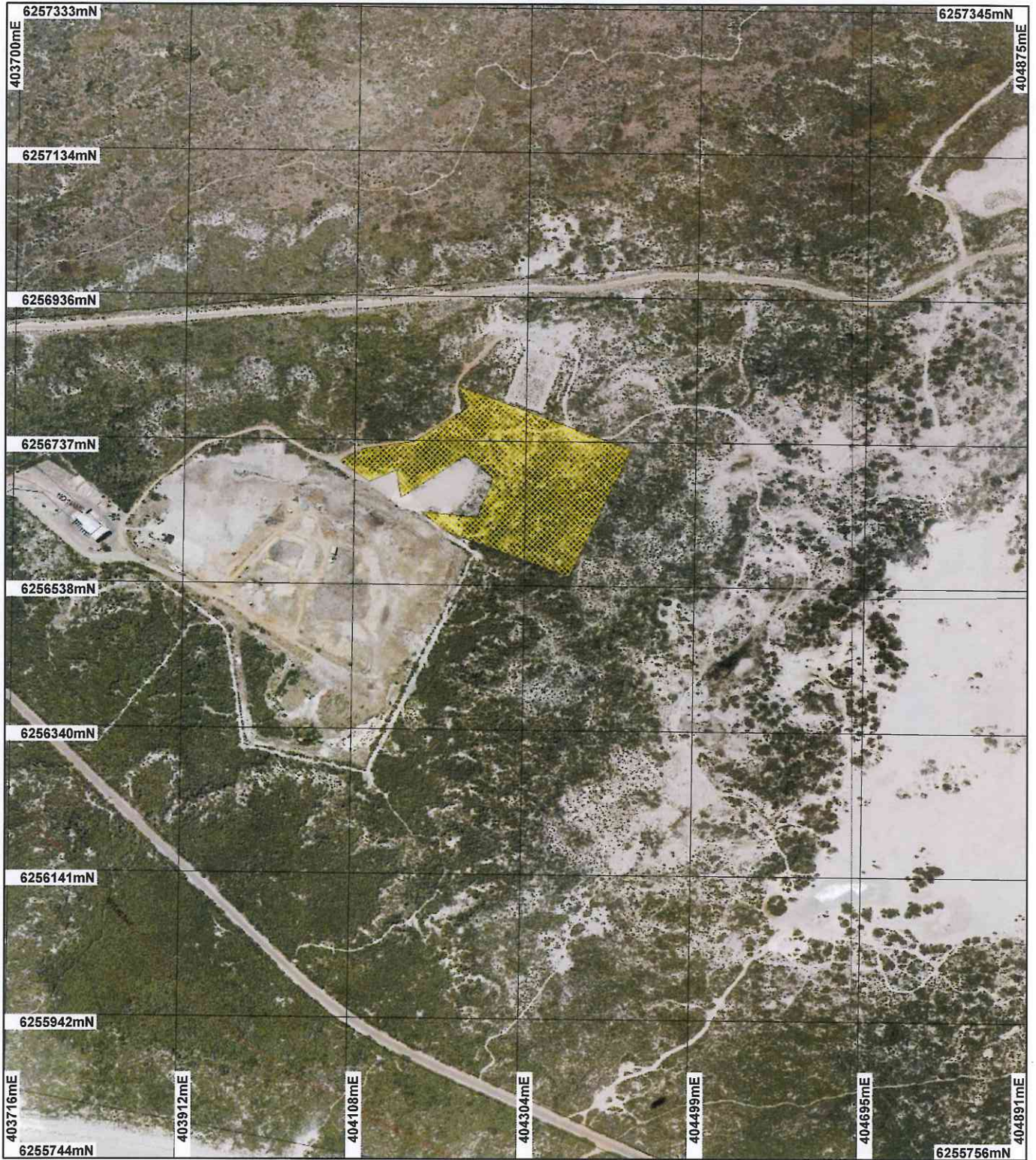
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M Warnock  
A/ MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

22 December 2011

# Plan 4680/1



## LEGEND

- Clearing Instruments**
-  Areas Approved to Clear
  -  Road Centrelines
  -  Cadastre

Esperance Townsite 20cm  
Orthomosaic - Landgate  
2007



Scale 1:6999  
(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 22/12/11

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.: 4680/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Shire of Esperance

### 1.3. Property details

Property: LOT 5 ON PLAN 61342 (Lot No. 5 WYLIE BAY BANDY CREEK 6450)  
Local Government Area: Shire of Esperance  
Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
3.73		Mechanical Removal	Extractive Industry

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 22 December 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 area under application is mapped as Beard Vegetation Association 42 which is described as 'Shrublands; mallee & acacia scrub on south coastal dunes' (Shepherd, 2009).	This application proposes to clear 3.73 hectares of native vegetation for the purpose of sand extraction.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	The condition of the vegetation under application was determined via digital imagery (Esperance Townsite 20cm Orthomosaic - Landgate 2007).
	The area under application appears to be in a Good (Keighery, 1994) condition.		

## 3. Assessment of application against clearing principles

### Comments

The Shire of Esperance is proposing to clear 3.73 hectares of native vegetation within Lot 5 on Plan 61342, Bandy Creek for the purpose of extracting sand. The extracted sand will be used to stabilise the Esperance Foreshore.

The area under application appears to be in a good (Keighery, 1994) condition. Disturbances such as tracks and edge effects within this area have resulted from the adjacent landfill site.

The area under application is located within the Esperance Plains Interim Biogeographic Regionalisation of Australia (IBRA) bioregion. This IBRA bioregion has approximately 51 per cent of its Pre European vegetation extent remaining (Shepherd, 2009).

The application area is mapped as Beard Vegetation Association 42. This vegetation association has approximately 93 per cent (125 970 hectares) of its pre-European extent remaining in the Esperance Plains bioregion (Shepherd, 2009).

The chief soils of the application area are calcareous sands (Northcote et al, 1960- 68). The proposed clearing has a high risk of wind erosion due to the high sand content and relative ease at which these materials can be transported by wind.

It is unlikely that the proposed clearing will negatively impact upon biodiversity, flora, fauna, groundwater or surface water quality in the local area.

Given the above the proposed clearing may be at variance to principle (g) and is not likely to be at variance to any of the remaining principles.

**Methodology**   References:  
Keighery (1994)  
Northcote et al (1960-68)  
Shepherd (2009)

GIS Database:  
- Esperance Townsite 20cm Orthomosaic - Landgate 2007  
- SAC Biodatasets (accessed Nov 2011)

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

### Comments

The area under application is adjacent to the Shire of Esperance's landfill site. The applicant has advised that this proposal has no relationship to or implications for the current waste facility. Due to this the current application does not require works approval. However, works approval will be required if the Shire intends to utilise the remaining void for land filling practices.

The application area is zoned 'Public Purposes'.

No public submissions have been received in relation to this application.

**Methodology**   GIS Database:  
- Town Planning Scheme Zones

## 4. References

- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Northcote, K. H. with Beckmann G G, Bettenay E., Churchward H. M., van Dijk D. C., Dimmock G. M., Hubble G. D., Isbell R. F., McArthur W. M., Murtha G. G., Nicolls K. D., Paton T. R., Thompson C. H., Webb A. A. and Wright M. J. (1960-68): 'Atlas of Australian Soils, Sheets 1 to 10, with explanatory data'. CSIRO and Melbourne University Press: Melbourne.
- 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)