



GOVERNMENT OF  
WESTERN AUSTRALIA

## CLEARING PERMIT

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

<b>Purpose Permit number:</b>	CPS 4411/2
<b>Permit Holder:</b>	Shire of Bridgetown-Greenbushes
<b>Duration of Permit:</b>	19 September 2011 – 19 September 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 maintenance and upgrades.

**2. Land on which clearing is to be done**

Kendall Road reserve, Hester  
Krsuls Road reserve, Hester  
Wilkins Road reserve, Bridgetown  
Walter Road reserve, Bridgetown  
James Road reserve, North Greenbushes  
Kangaroo Gully Road reserve, Kangaroo Gully  
Giblett Road reserve, Bridgetown  
Maranup Ford Road reserve, Greenbushes  
Blackwood Park Road reserve  
Wilga Road reserve, Catterick  
Connell Road reserve, Hester  
Nelson Road reserve, Bridgetown  
Winnejup Road reserve, Winnejup  
Bill Baldock Drive Road reserve, Hester  
Donnelly Mill Road reserve, Yornup  
Unnamed Road reserve, Hester

**3. Area of Clearing**

The Permit Holder shall not clear more than 9.23 hectares of native vegetation within the combined areas cross-hatched yellow on attached Plan 4411/2a, Plan 4411/2b, Plan 4411/2c, Plan 4411/2d, Plan 4411/2e, Plan 4411/2f, Plan 4411/2g, Plan 4411/2h, Plan 4411/2i, Plan 4411/2j Plan 4411/2k Plan 4411/2l and Plan 4411/2m

**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:

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

**8. 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.

**9. Fauna management**

- (a) Prior to undertaking any clearing authorised under this Permit, the area(s) shall be inspected by a *fauna specialist* who shall:
  - (i) identify *habitat trees* suitable to be utilised by Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudins black cockatoo (*Calyptorhynchus baudinii*) and Red-tailed black cockatoo (*Calyptorhynchus banksii naso*); and
  - (ii) inspect *habitat trees* identified under condition 9(a)(i) for the presence of Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudins black cockatoo (*Calyptorhynchus baudinii*) and Red-tailed black cockatoo (*Calyptorhynchus banksii naso*).
- (b) Where *habitat trees* identified under condition 9(a) contain hollows suitable for use by Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudin's black cockatoo (*Calyptorhynchus baudinii*) and Red-tailed black cockatoo (*Calyptorhynchus banksii naso*), the Permit Holder shall retain these *habitat trees* in situ, or if this is not possible the Permit Holder shall:
  - (i) remove and retain intact hollows;
  - (ii) each removed and retained intact hollow shall be attached to a tree located within no more than 10 km from any clearing authorised under this Permit;
  - (iii) each removed and retained intact hollow shall be attached to a tree within one month of removing it; and
- (c) Within one week prior to undertaking any clearing authorised under this Permit, the Permit Holder shall engage a *fauna clearing person* to remove and relocate fauna identified under condition 9(a)(ii).

### PART III - RECORD KEEPING AND REPORTING

#### **10. Records must 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;
  - (iii) the date that the area was cleared; and
  - (iv) the size of the area cleared (in hectares).
  
- (b) In relation to fauna management pursuant to condition 9 of this Permit:
  - (i) the location of each tree that contains hollows, 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) the species name of fauna reasonably likely to utilise, or that have been observed utilising, the trees that contain hollows;
  - (iii) the location of surrogate trees for relocation with vacant hollows, 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; and
  - (iv) the location and date where relocated fauna was released, 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.

#### **11. 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 10 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 July and 30 June of the preceding year.
  
- (b) Prior to 19 June 2016, the Permit Holder must provide to the CEO a written report of records required under condition 10 of this Permit where these records have not already been provided under condition 11(a) of 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;

*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*.

*fauna clearing person* means a person who has obtained a licence from the Department, issued pursuant to the *Wildlife Conservation Regulations 1970* authorising them to take fauna;

*fauna specialist* means a person with training and specific work experience in fauna identification or faunal assemblage surveys of Western Australian fauna; and

*habitat tree(s)* means trees that have a diameter, at average adult human chest height, of greater than 50cm, healthy but with dead limbs and broken crowns that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts



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Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

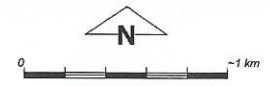
10 November 2011

# Plan 4411/2a



## LEGEND

- |  |  |
|--|--|
| <b>Clearing instruments</b>                          | <b>Bridgetown 50cm Orthomosaic - Landgate 2004</b> |
| Areas Approved to Clear                              |  |
| Road Centrelines                                     |  |
| Cadastre   |  |
| Bridgetown Townsite 20cm Orthomosaic - Landgate 2006 |  |



Scale 1:35815  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Date 10/4/11  
K. Faulkner

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
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2b



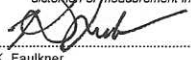
## LEGEND

- Clearing Instruments**  
 Areas Approved to Clear
- Road Centrelines**
- Cadastral**  
 Bridgetown Townsite 20cm Orthomosaic - Landgate 2006
- Bridgetown 50cm Orthomosaic - Landgate 2004


  
 0 ~500 m  
 Scale 1:18292  
 (Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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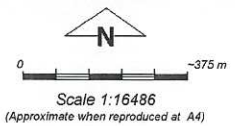
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2c



## LEGEND

- Clearing Instruments**
- Areas Approved to Clear
- Road Centrelines**
- Road Centrelines
- Cadastral**
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006
  - Bridgetown 50cm Orthomosaic - Landgate 2004

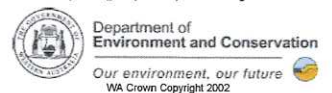


Geocentric Datum Australia 1994

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*K. Faulkner* Date *10/10/11*  
K. Faulkner

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\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2d



## LEGEND

- Clearing Instruments
- Areas Approved to Clear
- Road Centrelines
- Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006
- Bridgetown 30cm Orthomosaic - Landgate 2004



0 ————— 750 m

Scale 1:25018

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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*K. Faulkner* Date *10/1/06*  
K. Faulkner

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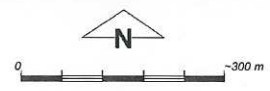


# Plan 4411/2e



## LEGEND

- |  |                               |
|--|-------------------------------|
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|  | <b>2004</b>                   |
|  | <b>2006</b>                   |



Scale 1:10797  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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*[Signature]* Date 10/11/11  
K. Faulkner

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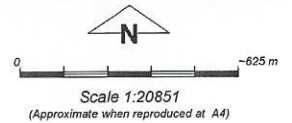
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2f



## LEGEND

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|--|---|
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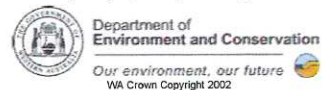


Geocentric Datum Australia 1994

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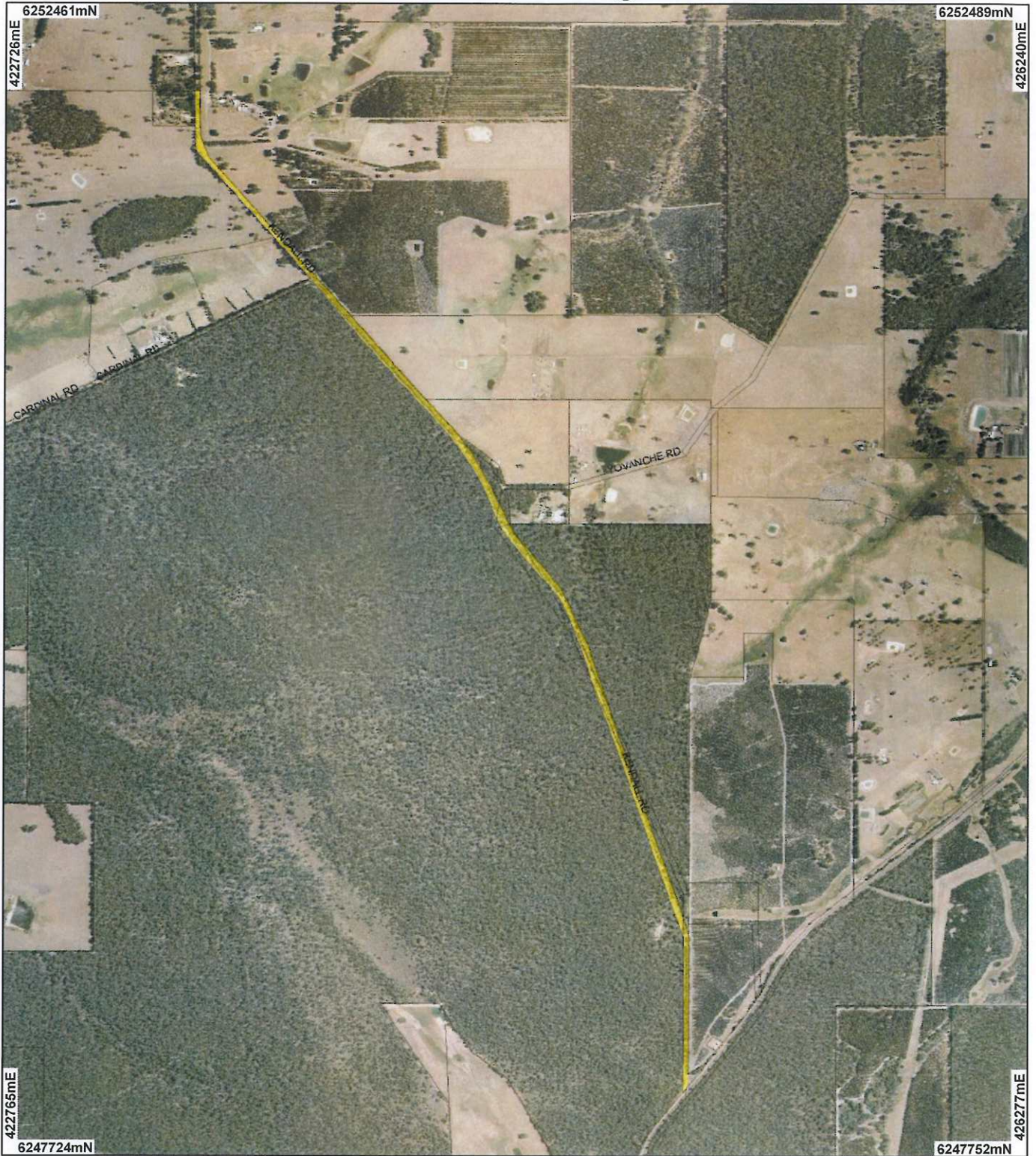
*[Signature]* Date 10/10/10  
K. Faulkner

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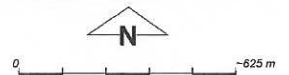
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2g



## LEGEND

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|---|---|
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|---|---|



Scale 1:20851  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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*[Signature]* Date *10/11/17*  
K. Faulkner

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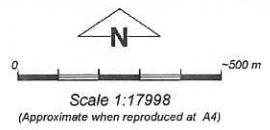
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2h



## LEGEND

- Cleaning Instruments
- Areas Approved to Clear
- Road Centrelines
- Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006
- Bridgetown 30cm Orthomosaic - Landgate 2004



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

*[Signature]*  
 K. Faulkner Date 10/11/11

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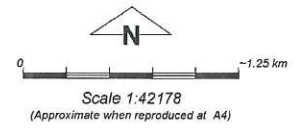
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2i



## LEGEND

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|--|--|
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Geocentric Datum Australia 1994

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*[Signature]* Date *[Signature]*  
K. Fulkner

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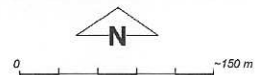
\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2j



## LEGEND

- |  |  |
|--|--|
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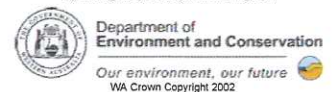
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*[Signature]*  
K. Faulkner Date 10/4/11

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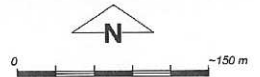
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# Plan 4411/2k



## LEGEND

- Clearing Instruments
- Areas Approved to Clear
- Road Centrelines
- Cadastral
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006
- Bridgetown 50cm Orthomosaic - Landgate 2004



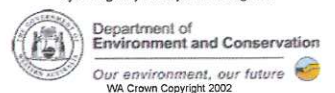
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Geocentric Datum Australia 1994

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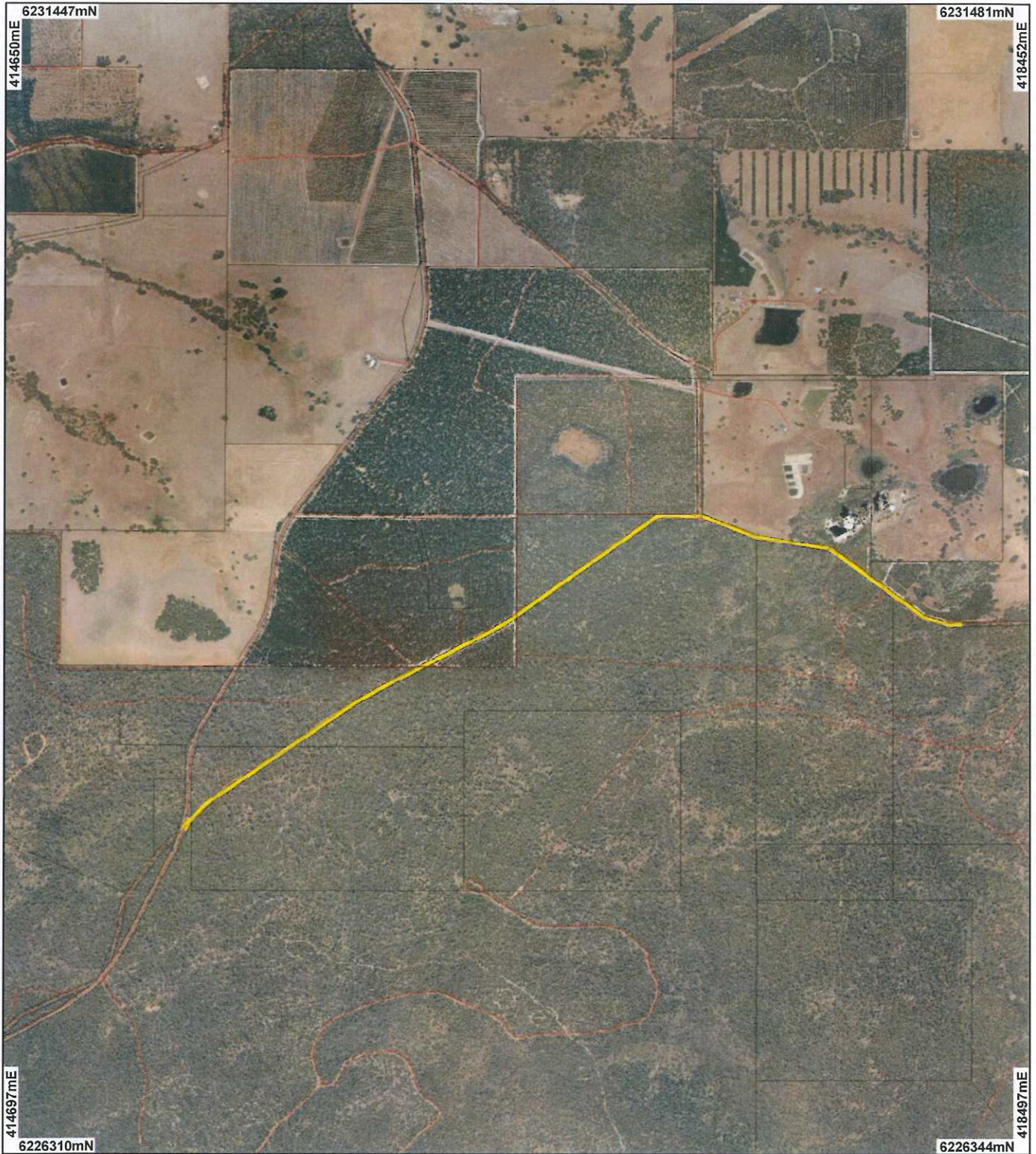
*K. Faylknier* Date 15/6/11  
K. Faylknier

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\* Project Data. This data has not been quality assured. Please contact map author for details.

# Plan 4411/2I



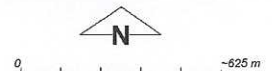
## LEGEND

### Clearing Instruments

- Areas Applied to Clear
- Areas Approved to Clear
- Areas Subject to Conditions
- Road Centrelines
- Cadastre

**Bridgetown 50cm  
Orthomosaic - Landgate  
2004**

**Manjimup 50cm Orthomosaic -  
Landgate 2007**



Scale 1:22594  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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*[Signature]* Date 18/10/11

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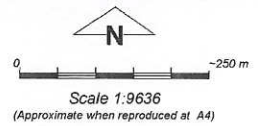


# Plan 4411/2m




## LEGEND

- |   |                                   |
|---|-----------------------------------|
|  Areas Applied to Clear      | <input type="checkbox"/> Cadastre |
|  Areas Approved to Clear     | <b>Bridgetown 50cm</b>            |
|  Areas Subject to Conditions | <b>Orthomosaic - Landgate</b>     |
|  Road Centrelines            | <b>2004</b>                       |



Geocentric Datum Australia 1994

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

 Date 10/11/11

K. Faulkner

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 4411/2  
Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: Shire of Bridgetown - Greenbushes

### 1.3. Property details

Property: ROAD RESERVE (CATTERICK 6255)  
ROAD RESERVE (HESTER 6255)  
ROAD RESERVE (BRIDGETOWN 6255)  
ROAD RESERVE (NORTH GREENBUSHES 6254)  
ROAD RESERVE (KANGAROO GULLY 6255)  
ROAD RESERVE (GREENBUSHES 6254)  
ROAD RESERVE (MARANUP 6256)  
ROAD RESERVE (HESTER BROOK 6255)  
ROAD RESERVE (HESTER 6255)  
ROAD RESERVE (WINNEJUP 6255)  
ROAD RESERVE (YORNUP 6256)  
Local Government Area: Shire of Bridgetown - Greenbushes

### 1.4. Application

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

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 10 November 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
Beard vegetation association 3 Medium forest; jarrah-marri (Shepherd, 2009).	The Shire of Bridgetown-Greenbushes proposes to clear 9.23ha within 16 road reserves throughout the Shire. The road reserves under application are Kendall, Krsuls, Wilkins, Walter, James, Kangaroo Gully, Gible, Marunup Ford, Blackwood Park, Wilga, Connell, Nelson, Winnejup, Donnelly Mill, Bill Baldock and an un-named road reserve. The clearing is needed to ensure roads meet the minimum requirement of a 6 metre seal, with the total width including the table drains and backslopes of 11 metres.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	The vegetation condition was confirmed during a DEC site inspection (DEC, 2011) undertaken on 3 August 2011
Beard vegetation association 992 Medium forest; jarrah & wandoo (Eucalyptus wandoo) (Shepherd, 2009).		To	
Mattiske vegetation complex Dwellingup (D1) Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on lateritic uplands in mainly humid and subhumid zones. (Mattiske and Havel, 1998).	It is considered that the road reserve that will be impacted the most by the proposed clearing will be Winnejup Road. Winnejup Road is a narrow road that	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	
Mattiske vegetation			

complex Catterick (CC1)  
Open forest of *Eucalyptus marginata* subsp. *marginata*-*Corymbia calophylla* mixed with *Eucalyptus patens* on slopes, *Eucalyptus rudis* and *Banksia littoralis* on valley floors in the humid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Newgalup 1 (NWg1)  
Woodland of *Corymbia calophylla*-*Eucalyptus marginata* subsp. *marginata* on slopes, open heath on shallow soils near granites, open forest of *Eucalyptus rudis*-*Eucalyptus wandoo* on the valley floors in the subhumid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Dalmore (DMg)  
Mosaic of woodland of *Eucalyptus wandoo* with some *Corymbia calophylla* on deeper soils and open heath of *Myrtaceae*-*Proteaceae* spp. and lithic complex on shallow soils near granite outcrops in subhumid to arid zones (Mattiske and Havel, 1998).

Mattiske vegetation complex Newgalup (NW1)  
Woodland of *Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* with some *Eucalyptus wandoo* on upper slopes in the subhumid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Dalmore 1 (DM1)  
Woodland of *Corymbia calophylla*-*Eucalyptus marginata* subsp. *marginata* with occasional *Eucalyptus wandoo* on uplands in the subhumid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Balingup (BL)  
Open forest of *Eucalyptus marginata* subsp. *marginata*-*Corymbia calophylla* on slopes and woodland of *Eucalyptus rudis* on the valley floor in the humid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Balingup (BLf)

comprises an approximate 4 metre seal, with an approximate width of 5 to 7 metres including the table drain and backslopes.

The vegetation within Winnejup road reserve (approximately 6km road stretch) at the western end comprises of areas of *Corymbia calophylla* and *Eucalyptus wandoo* over weed species and bracken amongst some native sedges, its considered to be in a degraded (Keighery, 1994) condition (DEC, 2011). The vegetation at the eastern end of Winnejup road reserve (approximately 4.5km road stretch) comprises of Marri, Jarrah and *Banksia grandis* woodland over bracken fern, *Xanthorrhoea preissii*, *Acacia* and *Hakea* species, the vegetation ranges from degraded to very good (Keighery, 1994) condition (DEC 2011). It is proposed that up to three metres of vegetation will be cleared each side of the eastern end of Winnejup road reserve.

The vegetation within the remaining roads under application comprises mainly of regrowth (over 10 years old) as the roads haven't been maintained since there initial construction. Most of the clearing will take place within the table drain and backslopes. The vegetation is considered to range from completely degraded to very good (Keighery, 1994) condition (DEC, 2011).

Woodland of *Eucalyptus rudis* on valley floors and woodland of *Eucalyptus patens*-*Corymbia calophylla* on footslopes with some *Eucalyptus marginata* subsp. *marginata* on lower slopes in the humid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Bridgetown (BT)

Mixture of open forest of *Eucalyptus marginata* subsp. *marginata*-*Corymbia calophylla* with some *Eucalyptus patens* on slopes to low open forest of *Eucalyptus rudis*-*Melaleuca raphiophylla* on the valley floors in the humid zone (Mattiske and Havel, 1998).

Mattiske vegetation complex Hester (HR)

Tall open forest to open forest of *Eucalyptus marginata* subsp. *marginata*-*Corymbia calophylla* on lateritic uplands in perhumid and humid zones (Mattiske and Havel, 1998).

### 3. Assessment of application against clearing principles

#### Comments

Clearing Permit CPS 4411/1 has been amended to increase the clearing by a further 1.45 hectares and to add Bill Baldock Drive, Donnelly Mill and an Unnamed road reserves to the application area. The amended total size of clearing is 9.23 hectares.

The assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 4411/1.

#### Methodology

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

#### Comments

The proponent has applied to increase the clearing area by a further 1.45 hectares.

No submissions from the public have been received.

#### Methodology

### 4. References

- DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4411/1, Kendall, Krsulus, Wilkins, Walter, James, Kangaroo Gully, Gibley, Marunup Ford, Blackwood Park, Wilga, Connell, Nelson and Winnejup roas reserves. Site inspection undertaken 3/8/2011. Department of Environment and Conservation, Western Australia (TRIM Ref. DOCA423645).
- 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.
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## 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)