



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

| | |
|-------------------------------|-----------------------------------|
| Purpose Permit number: | CPS 1891/2 |
| Permit Holder: | Shire of Bridgetown - Greenbushes |
| Duration of Permit: | 25 October 2007 – 25 October 2022 |

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 gravel extraction, road widening and fire hazard zone establishment.

2. Land on which clearing is to be done

BLACKBUTT ROAD RESERVE (CATTERICK 6255)
BROCKMAN HIGHWAY ROAD RESERVE (MARANUP 6256)
CATTERICK ROAD RESERVE (CATTERICK 6255)
CORBALUP ROAD RESERVE (KINGSTON 6256)
DONNELLY MILL ROAD RESERVE (WANDILLUP 6256)
DONNELLY MILL ROAD RESERVE (YORNUP 6256)
EEDLE TERRACE ROAD RESERVE (BRIDGETOWN 6255)
GRAYS HILL ROAD RESERVE (BRIDGETOWN 6255)
GREENBUSHES - BOYUP BROOK ROAD RESERVE (CATTERICK 6255)
HESTER CASCADES ROAD RESERVE (HESTER BROOK 6255)
JAYES ROAD RESERVE (WINNEJUP 6255)
LOT 10974 ON PLAN 203158 (CATTERICK 6255)
LOT 10980 ON PLAN 203158 (Lot No. 10980 BLACKBUTT CATTERICK 6255)
LOT 11952 ON PLAN 206069 (CATTERICK 6255)
LOT 11981 ON PLAN 205657 (CATTERICK 6255)
LOT 13728 ON PLAN 32823 (Lot No. 13728 WINNEJUP WINNEJUP 6255)
LOT 13729 ON PLAN 32823 (Lot No. 13729 WINNEJUP WINNEJUP 6255)
LOT 150 ON PLAN 248422 (Lot No. 150 BROCKMAN WANDILLUP 6256)
LOT 200 ON PLAN 65630 (Lot No. 200 TWEED SUNNYSIDE 6256)
LOT 22 ON DIAGRAM 90580 (WINNEJUP 6255)
LOT 294 ON PLAN 222162 (Lot No. 294 EEDLE BRIDGETOWN 6255)
LOT 295 ON PLAN 222162 (Lot No. 295 EEDLE BRIDGETOWN 6255)
LOT 296 ON PLAN 222162 (Lot No. 296 EEDLE BRIDGETOWN 6255)
LOT 3 ON DIAGRAM 52437 (Lot No. 3 BROCKMAN MARANUP 6256)
LOT 331 ON PLAN 36423 (KINGSTON 6256)
LOT 3938 ON PLAN 81886 (CATTERICK 6255)
LOT 435 ON PLAN 159552 (CATTERICK 6255)
LOT 5296 ON PLAN 138008 (Lot No. 5296 BLACKBUTT CATTERICK 6255)
LOT 601 ON PLAN 65630 (SUNNYSIDE 6256)
LOT 602 ON PLAN 65630 (SUNNYSIDE 6256)
LOT 639 ON PLAN 257277 (MARANUP 6256)
LOT 71 ON DIAGRAM 97131 (WINNEJUP 6255)

LOT 77 ON PLAN 27491 (Lot No. 77 BLACKBUTT CATTERICK 6255)
 LOT 8484 ON PLAN 253891 (KANGAROO GULLY 6255)
 LOT 898 ON PLAN 228875 (WINNEJUP 6255)
 LOT 930 ON PLAN 102422 (Lot No. 930 BLACKBOY FLAT WANDILLUP 6256)
 MARANUP FORD ROAD RESERVE (MARANUP 6256)
 MCKELVIE ROAD RESERVE (CATTERICK 6255)
 OLD BRIDGETOWN ROAD RESERVE (WANDILLUP 6256)
 OLD BRIDGETOWN ROAD RESERVE (MARANUP 6256)
 PADBURY STREET ROAD RESERVE (BRIDGETOWN 6255)
 PENINSULA ROAD RESERVE (HESTER BROOK 6255)
 RAILWAY RESERVE (CATTERICK 6255)
 SLADES ROAD RESERVE (KANGAROO GULLY 6255)
 SLADES ROAD RESERVE (SUNNYSIDE 6256)
 STATE FOREST 34 (WANDILLUP 6256)
 STATE FOREST 34 (YORNUP 6256)
 STATE FOREST 37 (PERUP 6258)
 TWEED ROAD RESERVE (BRIDGETOWN 6255)
 TWEED ROAD RESERVE (GLENLYNN 6256)
 TWEED ROAD RESERVE (SUNNYSIDE 6256)
 TWEED ROAD RESERVE (WINNEJUP 6255)
 UNALLOCATED CROWN LAND (MARANUP 6256)
 UNALLOCATED CROWN LAND (SUNNYSIDE 6256)
 UNALLOCATED CROWN LAND (WINNEJUP 6255)
 WINNEJUP ROAD RESERVE (WINNEJUP 6255)

3. Area of Clearing

The Permit Holder must not clear more than 20.55 hectares of native vegetation within the combined areas hatched yellow on attached Plan 1891/2a, 1891/2b, 1891/2c, 1891/2d, 1891/2e, 1891/2f, 1891/2g, 1891/2h, 1891/2i, 1891/2j, 1891/2k, 1891/2l, 1891/2m, 1891/2n, 1891/2o, 1891/2p, 1891/2q, 1891/2r, 1891/2s, 1891/2t, 1891/2u, 1891/2v and 1891/2w.

4. Period in which clearing is authorised

The Permit Holder shall not clear any native vegetation after 25 October 2017.

5. 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.

6. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for the activities described in condition 1 of this Permit to the extent that the Permit Holder has the power to carry out works involving clearing for those activities under the *Local Government Act 1995* or any other written law.

7. 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

8. 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.

9. Dieback and weed control

- (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) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (iii) 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.

10. 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*) Red-tailed black cockatoo (*Calyptorhynchus banksii naso*) and Brush-tailed Phascogale (*Phascogale tapoatafa*); and
 - (ii) inspect *habitat trees* identified under condition 10(a)(i) for the presence of Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudins black cockatoo (*Calyptorhynchus baudinii*), Red-tailed black cockatoo (*Calyptorhynchus banksii naso*) and Brush-tailed Phascogale (*Phascogale tapoatafa*).
- (b) Where *habitat trees* identified under condition 10(a) contain hollows suitable for use by Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudin's black cockatoo (*Calyptorhynchus baudinii*) Red-tailed black cockatoo (*Calyptorhynchus banksii naso*) and Brush-tailed Phascogale (*Phascogale tapoatafa*), 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 10(a)(ii).

11. Flora management

- (a) Prior to undertaking any clearing authorised under this Permit within the area shaded red on Plan 1891/2x the Permit Holder shall engage a *botanist* to inspect that area for the presence of *priority flora* species *Scaevola ballajupensis* L.W.Sage.
- (b) Where *Scaevola ballajupensis* L.W.Sage is identified in relation to condition 11(a) of this Permit, the Permit Holder shall ensure that no clearing occurs within 10 metres of *Scaevola ballajupensis* L.W.Sage, unless approved by the CEO

12. 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 within the area hatched yellow on Plan 1891/2a and stockpile the vegetative material and topsoil in an area that has already been cleared

- (b) at an *optimal time* within 12 months following completion of gravel extraction, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
 - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
 - (ii) ripping the ground on the contour to remove soil compaction; and
 - (iii) ripping the pit floor and contour batters within the extraction site; and
 - (iv) laying the vegetative material and topsoil retained under condition 12(a) on the cleared area(s) that are no longer required for the purpose for which they were cleared under this Permit.
- (c) within 24 months of laying the vegetative material and topsoil on the cleared area in accordance with condition 12(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 12(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 12(c)(ii) of this permit, the Permit Holder shall repeat condition 12(c)(i) and 12(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 12(c)(i) and (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 12(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 12(c)(ii).

PART III - RECORD KEEPING AND REPORTING

13. 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 within the area hatched yellow on Plan 1891/2a:
 - (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 the clearing of native vegetation authorised under this Permit within the area hatched yellow on Plan 1891/2b, 1891/2c, 1891/2d, 1891/2e, 1891/2f, 1891/2g, 1891/2h, 1891/2i, 1891/2j, 1891/2k, 1891/2l, 1891/2m, 1891/2n, 1891/2o, 1891/2p, 1891/2q, 1891/2r, 1891/2s, 1891/2t, 1891/2u, 1891/2v and 1891/2w:
 - (i) 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;
 - (ii) the date that the area was cleared; and
 - (iii) the size of the area cleared (in hectares).

- (c) In relation to fauna management pursuant to condition 10 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.
- (d) In relation to flora management pursuant to condition 11 of this Permit:
 - (i) the location of each *Scaevola ballajupensis* L.W.Sage 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
 - (ii) a copy of the botanists flora survey report.
- (e) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 12 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.

14. 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 13 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 25 July 2022, the Permit Holder must provide to the CEO a written report of records required under condition 13 of this Permit where these records have not already been provided under condition 14(a) (reporting condition) of this Permit.

DEFINITIONS

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

botanist means a person with specific training and/or experience in the biology, identification and taxonomy of Western Australian flora;

dieback means the effect of *Phytophthora* species on native vegetation;

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;

dry conditions means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

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;

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

fill means material used to increase the ground level, or fill a hollow;

habitat tree(s) means trees that have a diameter, measured at 1.5m above the ground, of 50cm or greater, 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;

local provenance means native vegetation seeds and propagating material from natural sources within 10 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;

optimal time means the period from April to June for undertaking *direct seeding*, and the period from May to June for undertaking *planting*;

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

priority flora means those plant taxa described as priority flora classes 1, 2, 3 or 4 in the *Department's Declared Rare and Priority Flora List for Western Australia* (as amended);

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;

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*; and

Wildlife Conservation (Specially Protected Fauna) Notice means those fauna taxa gazetted as rare fauna pursuant to section 14(4)(a) of the *Wildlife Conservation Act 1950* (as amended).



Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRNACH

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

14 June 2012

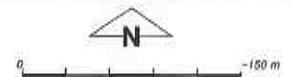
Plan 1891/2a



LEGEND

- ☐ Cadastre
- ☒ Road Centrelines
- ☒ Clearing Instruments
- ☒ Areas Approved to Clear
- ☒ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



Scale 1:5000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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[Signature] Date 14/6/12
K. Fiedler

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

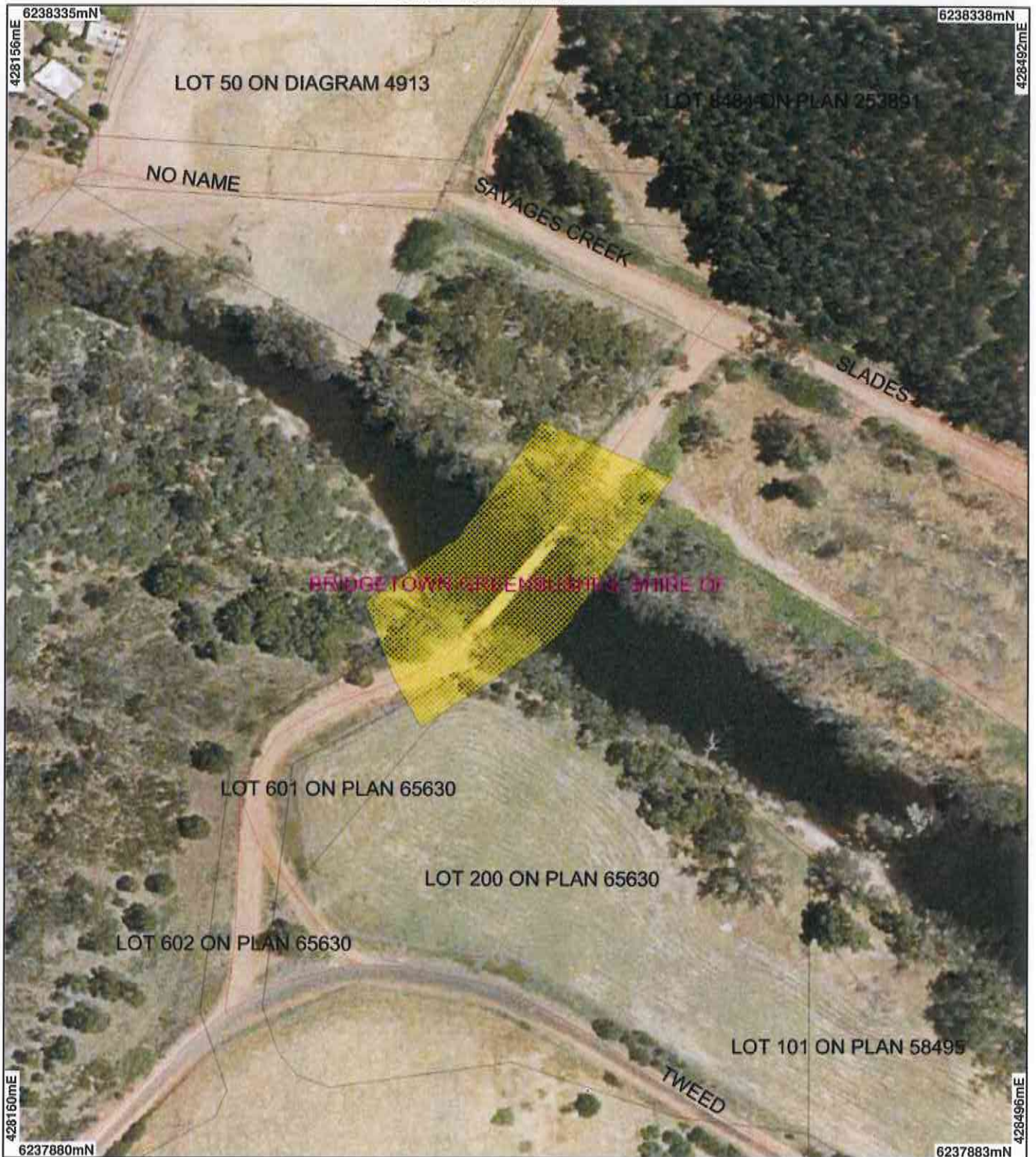
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Plan 1891/2b



LEGEND

- ☐ Cadastre
- ☒ Road Centrelines
- ☒ Clearing Instruments
- ☒ Areas Approved to Clear
- ☒ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



Scale 1:2000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Plan 1891/2c



LEGEND

- Cadastre
- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Plan 1891/2d



LEGEND

- ☐ Cadastre
- ☒ Road Centrelines
- ☒ Clearing Instruments
- ☒ Areas Approved to Clear
- ☒ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Plan 1891/2e



LEGEND

- ☐ Cadastre
- ☒ Road Centrelines
- ☐ Clearing Instruments
- ☐ Areas Approved to Clear
- ☐ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Plan 1891/2f



LEGEND

- ☐ Cadastre
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- ☐ Clearing Instruments
- ☐ Areas Approved to Clear
- ☐ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Geocentric Datum Australia 1994

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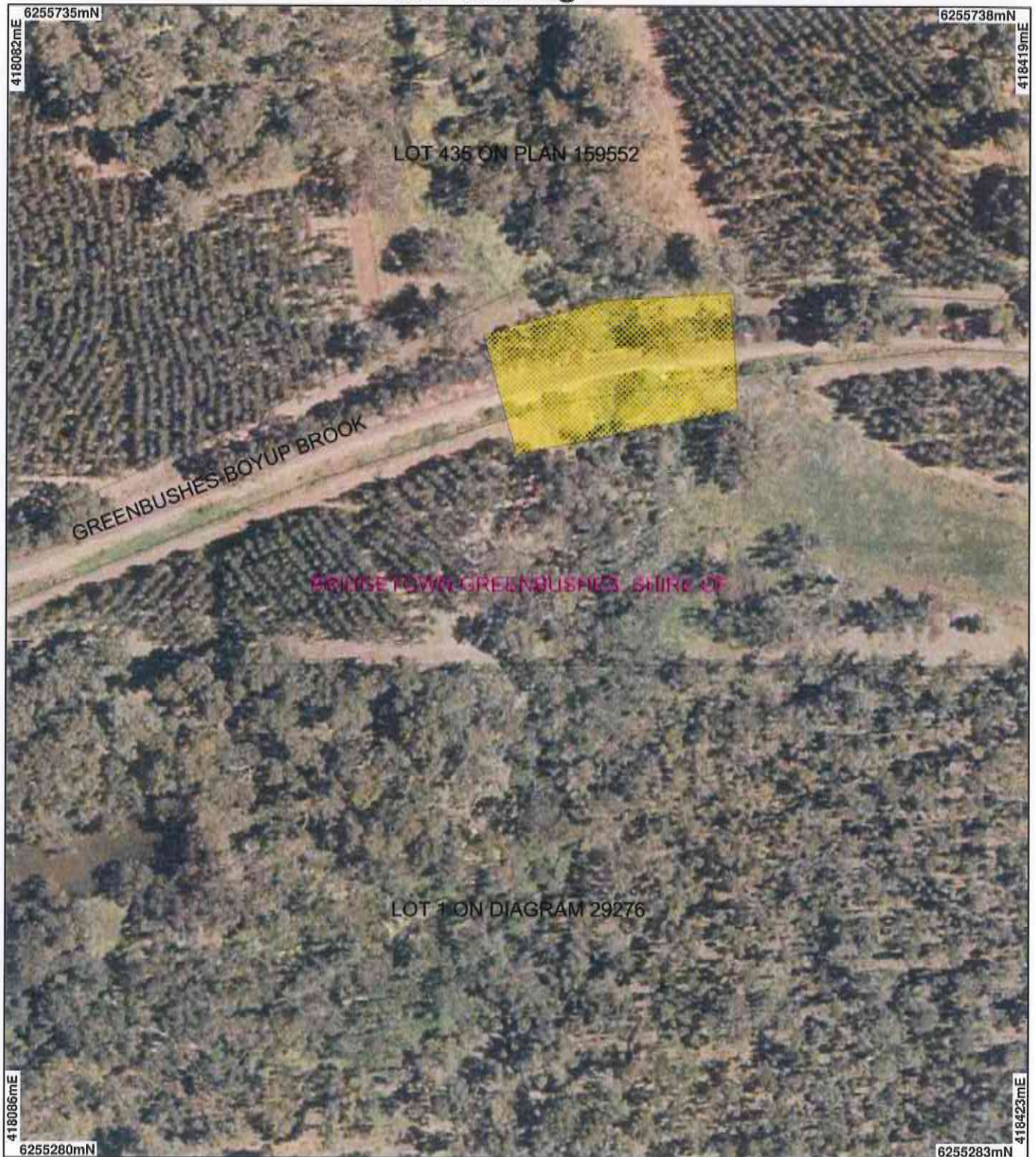
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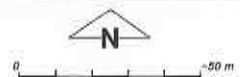
Plan 1891/2g



LEGEND

- Cadastre
- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Geocentric Datum Australia 1994

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Plan 1891/2h



LEGEND

- ☐ Cadastre
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- ☒ Clearing Instruments
- ☒ Areas Approved to Clear
- ☒ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Geocentric Datum Australia 1994

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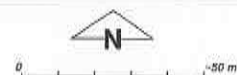
Plan 1891/2i



LEGEND

- ☐ Cadastre
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- ☒ Clearing Instruments
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- ☒ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



Scale 1:2000

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Geocentric Datum Australia 1994

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Plan 1891/2j



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- ☐ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Geocentric Datum Australia 1994

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Plan 1891/2k



LEGEND

- Cadastre
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- Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



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Geocentric Datum Australia 1994

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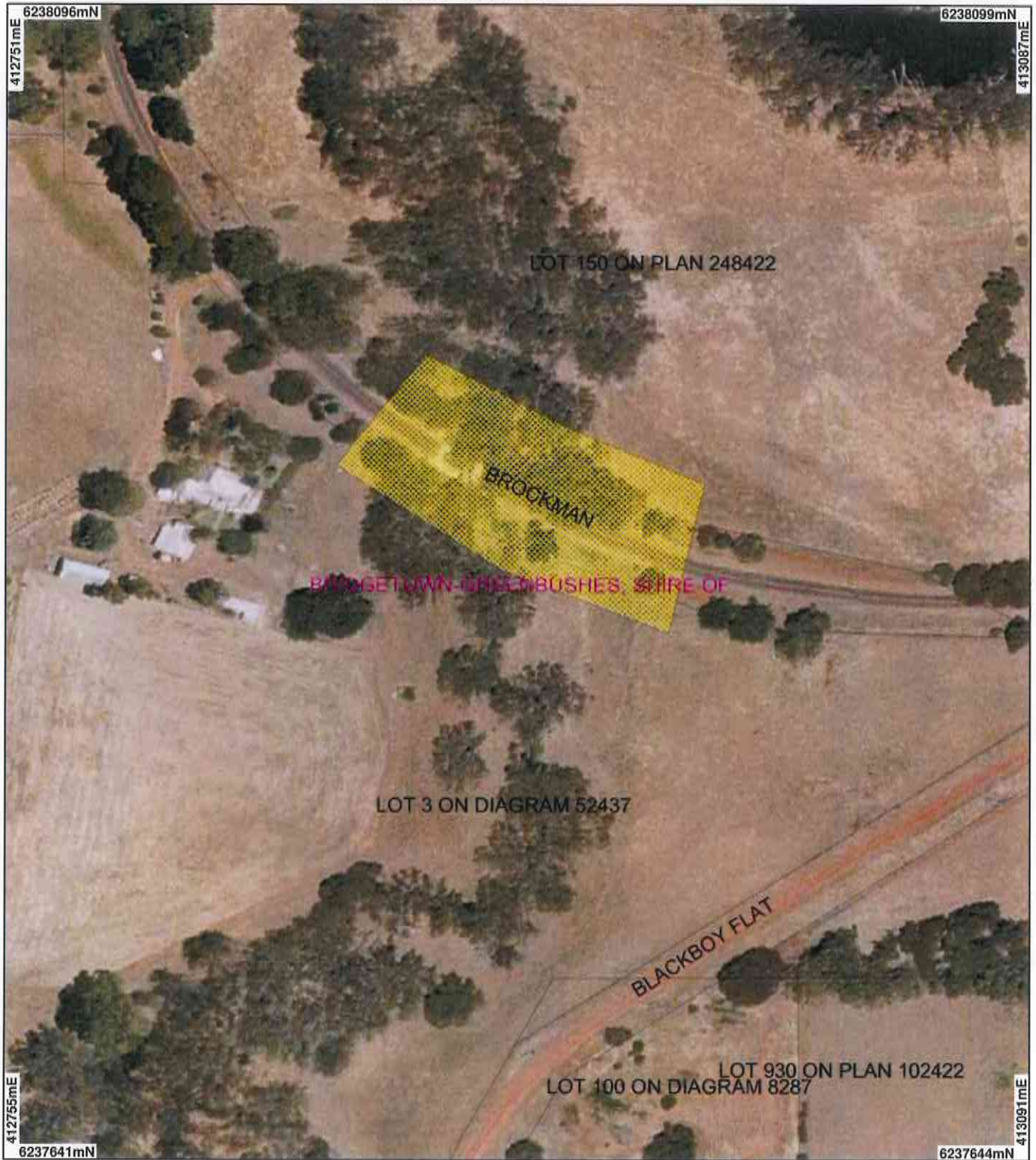
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Plan 1891/2I



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Bridgetown 50cm
Orthomosaic - Landgate
2004



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Geocentric Datum Australia 1994

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Plan 1891/2m



LEGEND

- ☐ Cadastre
- ☒ Road Centrelines
- ☒ Clearing Instruments
- ☒ Areas Approved to Clear
- ☒ Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



Scale 1:2000

(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.

[Signature] Date 14/6/12
K. Faulkner

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Plan 1891/2n



LEGEND

- | | |
|--|---|
| <input type="checkbox"/> Cadastre | <input type="checkbox"/> Local Government Authorities |
| <input checked="" type="checkbox"/> Road Centrelines | |
| <input checked="" type="checkbox"/> Clearing Instruments | Manjimup 50cm Orthomosaic - Landgate 2007 |
| <input type="checkbox"/> Areas Approved to Clear | |



Scale 1:2000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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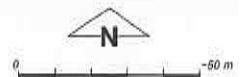
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Plan 1891/20



LEGEND

- | | |
|--|---|
| <input type="checkbox"/> Cadastre | <input type="checkbox"/> Local Government Authorities |
| <input checked="" type="checkbox"/> Road Centrelines | |
| <input checked="" type="checkbox"/> Clearing Instruments | Manjimup 50cm Orthomosaic - Landgate 2007 |
| <input type="checkbox"/> Areas Approved to Clear | |



Scale 1:2000
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Geocentric Datum Australia 1994

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Plan 1891/2p



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Bridgetown 50cm Orthomosaic - Landgate 2004



0 750 m

Scale 1:30000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Plan 1891/2q



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



Scale 1:2000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Date 14/4/12
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Plan 1891/2r



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Bridgetown 50cm Orthomosaic - Landgate 2004



Scale 1:20000

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Geocentric Datum Australia 1994

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Plan 1891/2s



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Bridgetown 50cm Orthomosaic - Landgate 2004



Scale 1:15000

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Plan 1891/2t



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Bridgetown 55cm Orthomosaic - Landgate 2004



0 750 m

Scale 1:30000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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K. Faulkner Date 14/6/12

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Plan 1891/2u



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Bridgetown 50cm Orthomosaic - Landgate 2004
- Manjimup 50cm Orthomosaic - Landgate 2007



Scale 1:120000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Plan 1891/2v



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities
- Bridgetown 50cm Orthomosaic - Landgate 2004
- Manjimup 50cm Orthomosaic - Landgate 2007



Scale 1:70000
(Approximate when reproduced at 14)

Geocentric Datum Australia 1994

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distortion or measurement inaccuracies.

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Plan 1891/2w



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004



Scale 1:4000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Date 14/4/12

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Plan 1891/2x



LEGEND

- ☒ Road Centrelines
- ☐ Cadastre
- ☐ Clearing Instruments
- ☐ Areas Subject to Conditions
- ☐ Local Government Authorities

**Bridgetown 50cm
Orthomosaic - Landgate
2004**



Scale 1:5000

(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.

distortion or measurement inaccuracies.

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1. Application details

1.1. Permit application details

Permit application No.: 1891/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Shire of Bridgetown-Greenbushes

1.3. Property details

Property:

GREENBUSHES - BOYUP BROOK ROAD RESERVE (CATTERICK 6255)
BLACKBUTT ROAD RESERVE (CATTERICK 6255)
BROCKMAN HIGHWAY ROAD RESERVE (MARANUP 6256)
CATTERICK ROAD RESERVE (CATTERICK 6255)
CORBALUP ROAD RESERVE (KINGSTON 6256)
DONNELLY MILL ROAD RESERVE (WANDILLUP 6256)
DONNELLY MILL ROAD RESERVE (YORNUP 6256)
EEDLE TERRACE ROAD RESERVE (BRIDGETOWN 6255)
GRAYS HILL ROAD RESERVE (BRIDGETOWN 6255)
HESTER CASCADES ROAD RESERVE (HESTER BROOK 6255)
JAYES ROAD RESERVE (WINNEJUP 6255)
LOT 10974 ON PLAN 203158 (CATTERICK 6255)
LOT 10980 ON PLAN 203158 (Lot No. 10980 BLACKBUTT CATTERICK 6255)
LOT 11952 ON PLAN 206069 (CATTERICK 6255)
LOT 11981 ON PLAN 205657 (CATTERICK 6255)
LOT 13728 ON PLAN 32823 (Lot No. 13728 WINNEJUP WINNEJUP 6255)
LOT 13729 ON PLAN 32823 (Lot No. 13729 WINNEJUP WINNEJUP 6255)
LOT 150 ON PLAN 248422 (Lot No. 150 BROCKMAN WANDILLUP 6256)
LOT 200 ON PLAN 65630 (Lot No. 200 TWEED SUNNYSIDE 6256)
LOT 22 ON DIAGRAM 90580 (WINNEJUP 6255)
LOT 294 ON PLAN 222162 (Lot No. 294 EEDLE BRIDGETOWN 6255)
LOT 295 ON PLAN 222162 (Lot No. 295 EEDLE BRIDGETOWN 6255)
LOT 296 ON PLAN 222162 (Lot No. 296 EEDLE BRIDGETOWN 6255)
LOT 3 ON DIAGRAM 52437 (Lot No. 3 BROCKMAN MARANUP 6256)
LOT 331 ON PLAN 36423 (KINGSTON 6256)
LOT 3938 ON PLAN 81886 (CATTERICK 6255)
LOT 435 ON PLAN 159552 (CATTERICK 6255)
LOT 5296 ON PLAN 138008 (Lot No. 5296 BLACKBUTT CATTERICK 6255)
LOT 601 ON PLAN 65630 (SUNNYSIDE 6256)
LOT 602 ON PLAN 65630 (SUNNYSIDE 6256)
LOT 639 ON PLAN 257277 (MARANUP 6256)
LOT 71 ON DIAGRAM 97131 (WINNEJUP 6255)
LOT 77 ON PLAN 27491 (Lot No. 77 BLACKBUTT CATTERICK 6255)
LOT 8484 ON PLAN 253891 (KANGAROO GULLY 6255)
LOT 898 ON PLAN 228875 (WINNEJUP 6255)
LOT 930 ON PLAN 102422 (Lot No. 930 BLACKBOY FLAT WANDILLUP 6256)
MARANUP FORD ROAD RESERVE (MARANUP 6256)
MCKELVIE ROAD RESERVE (CATTERICK 6255)
OLD BRIDGETOWN ROAD RESERVE (MARANUP 6256)
OLD BRIDGETOWN ROAD RESERVE (WANDILLUP 6256)
PADBURY STREET ROAD RESERVE (BRIDGETOWN 6255)
PENINSULA ROAD RESERVE (HESTER BROOK 6255)
RAILWAY RESERVE (CATTERICK 6255)
SLADES ROAD RESERVE (KANGAROO GULLY 6255)
SLADES ROAD RESERVE (SUNNYSIDE 6256)
STATE FOREST 34 (WANDILLUP 6256)
STATE FOREST 34 (YORNUP 6256)
STATE FOREST 37 (PERUP 6258)

TWEED ROAD RESERVE (BRIDGETOWN 6255)
TWEED ROAD RESERVE (GLENLYNN 6256)
TWEED ROAD RESERVE (SUNNYSIDE 6256)
TWEED ROAD RESERVE (WINNEJUP 6255)
UNALLOCATED CROWN LAND (MARANUP 6256)
UNALLOCATED CROWN LAND (SUNNYSIDE 6256)
UNALLOCATED CROWN LAND (WINNEJUP 6255)
WINNEJUP ROAD RESERVE (WINNEJUP 6255)

Local Government Area:

Colloquial name:

Shire of Bridgetown - Greenbushes

1.4. Application

| Clearing Area (ha) | No. Trees | Method of Clearing | For the purpose of: |
|--------------------|-----------|--------------------|----------------------------------|
| 7 | | Mechanical Removal | Hazard reduction or fire control |
| 6 | | Mechanical Removal | Extractive Industry |
| 7.55 | | Mechanical Removal | Road construction or maintenance |

1.5. Decision on application

Decision on Permit Application: GRANT

Decision Date: 14 June 2012

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>Beard Vegetation Association:</p> <p>3 - Medium forest; jarrah-marri. This association is mapped over the majority of the clearing areas.</p> <p>992 - Medium forest; jarrah & wandoo (E. wandoo). This association is mapped over the eastern sections of the Winnejup Road and Tweed Road clearing areas.</p> <p>(Shepherd et al., 2001)</p> <p>Mattiske Vegetation Complex:</p> <p>Numerous complexes are mapped over the application area. The dominant ones being:</p> <p>BT (Bridgetown) - 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 rhaphiophylla on the valley floors in the humid zone.</p> <p>(Mattiske and Havel, 1998)</p> <p>D1 (Dwellingup) - Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on lateritic uplands in mainly humid and subhumid zones</p> <p>Hedde Vegetation Complex:</p> <p>Numerous complexes are mapped over the application area. The dominant ones being:</p> <p>Bridgetown Complex in Medium To/High Rainfall;</p> <p>Michibin Complex;</p> <p>Catterick Complex in Medium To/High Rainfall</p> <p>(Hedde et al., 1980)</p> | <p>The application is for the following clearing within the Shire of Bridgetown -Greenbushes:</p> <p>- Up to 6 hectares of native vegetation is proposed to be cleared from Lot 11952 on Plan 206069, Catterick for the purpose of expanding an existing disused gravel pit for road construction and maintenance and Shire works. The existing gravel pit is approximately 0.6 hectares in size and on a property that predominantly supports blue gum plantation. The vegetation proposed to be cleared is within pockets of native vegetation in good (Keighery, 1994) condition to the northwest and southeast of the gravel pit. There is blue gum plantation to the southwest.</p> <p>- Up to 7 hectares for the establishment of a 10 metre cleared zone surrounding all wooden elements of 14 bridges for fire hazard reduction and access for maintenance. This is required by Main Roads Western Australia (MRWA, 2010).</p> <p>- Up to 7.55 hectares for widening and upgrade works for 8 roads.</p> <p>The vegetation under application is adjacent to cleared areas associated with existing road formations, bridges and gravel pit areas. The majority is in degraded to completely degraded (Keighery, 1994) condition, however five sites contain areas of excellent or very good (Keighery, 1994) condition vegetation (DEC, 2012).</p> | <p>Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery, 1994)</p> <p>To</p> <p>Completely Degraded: No longer intact; completely/almost completely without native species (Keighery, 1994)</p> | <p>The vegetation condition was determined from site inspection conducted 1st and 2nd May 2012 (DEC, 2012).</p> |

3. Assessment of application against clearing principles

Comments

The application is to amend Clearing Permit 1891/1 to:

- Amalgamate clearing permits CPS 890/3 and 1891/1;
- Remove areas that are no longer required;
- Increase the amount of clearing allowed to 20.55 hectares;
- Include four additional bridge locations: Brockman Highway, Catterick Road, Corbalup Road and Donnelly Mill Road.

The vegetation proposed to be cleared at the Brockman Highway and Catterick Road bridge locations is in degraded to completely degraded (Keighery, 1994) condition (DEC, 2012) and is not considered to hold high biodiversity or conservation value. The vegetation under application is growing in association with watercourses.

The vegetation under application at the Corbalup Road and Donnelly Mill Road bridge locations is in very good to good (Keighery, 1994) condition (DEC, 2012) and may include state forest and national park adjacent to the road reserves. Considering the extent of surrounding high quality vegetation in secure land tenure, the proposed clearing is not likely to impact upon biodiversity values. The vegetation in both areas is growing in association with a watercourse. There are large hollow-bearing trees adjacent to the Donnelly Mill Road bridge, which may provide suitable breeding habitat for black cockatoos and the Bruch-tailed Phascogale.

A review of current environmental information for the clearing areas approved under CPS 1891/1 and 890/3 reveals that:

- Poorly known Priority 1 flora species *Scaevola ballajupensis* is known to occur in the table drain and batter on the southern side of Tweed Road for approximately 120 metres, at a location near the eastern end of the application area. The species also occurs in a small area within the adjacent Land for Wildlife Reserve. During the site inspection at this location the applicant advised that clearing is unlikely to be conducted at this location as the road formation appears to be of sufficient width (DEC, 2012). Appropriately timed targeted flora survey is required to determine the impacts of the proposed clearing on this species.
- There is a mapped record of Priority 3 flora species *Acacia oncinophylla* subsp. *oncinophylla* within the Tweed Road reserve, however this species was not observed at this location during site inspection (DEC, 2012) and the record is likely to be referring to a known population within the adjacent Land for Wildlife Reserve, away from the road. The conservation status of this species is unlikely to be impacted.
- Priority 1 flora species *Carex tereticaulis* occurs within approximately 30 metres of the bridge on Winneup Road, near Tweed Road (DEC, 2012). During the site inspection at this location the applicant advised the clearing required at this location has been completed (DEC, 2012) and therefore impacts to the conservation status of this taxon are unlikely.
- The bridge on McKelvie Road supports a *Brachysema* species that is considered uncommon within the Blackwood District. Clearing by manual removal would reduce impacts to this species beyond the application area.

Considering the above, the proposed clearing is at variance to Principle (f) and may be at variance to Principles (a) and (b). Flora and fauna management will minimise this risk.

The assessment against the remaining clearing principles can be found in Clearing Permit Decision Report CPS 1891/1 and CPS 890/3.

Methodology

References:

DEC, 2012

Keighery, 1994

GIS Databases:

- Bridgetown 50cm Orthomosaic - Landgate 2004
- DEC Managed Lands & Waters - DEC 10/09
- Hydrography, linear - DoW 07/06
- Manjimup 50cm Orthomosaic - Landgate 2007
- NLWRA, Current Extent of Native Vegetation - DEC 08/11
- Pre-European vegetation - DA 01/01
- SAC Biodatasets - DEC 03/12

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

Comments

The application is to amend Clearing Permit 1891/1 to:

- Amalgamate clearing permits CPS 890/3 and 1891/1;
- Remove areas that are no longer required;
- Increase the amount of clearing allowed to 20.55 hectares;

- Include four additional bridge locations: Brockman Highway, Catterick Road, Corbalup Road and Donnelly Mill Road.

The applicant advised that Main Roads Western Australia (MRWA) requires a 10 metre wide cleared area from timber bridge structures be established and maintained for fire hazard reduction (DEC, 2012). MRWA's Timber Bridge Preventive Maintenance Standards requires the control of all vegetation under the bridge and within the road reserve, with the controlled area extending 10 metres beyond the kerb line on both sides of the bridge, which is especially relevant for minimising bridge damage during bushfires (MRWA, 2010). All vegetation within the control area is to be mowed or pruned to a height of not more than 100 mm above ground surface (MRWA, 2010).

A public submission was made against the application, especially to clearing in road reserves for material extraction and fire risk minimisation (Submission, 2012). The submission (2012) raised the following concerns:

- Road reserves are not a fire risk if managed well
- The applicant should identify alternatives that do not require so much clearing and find material in cleared areas. There are many alternatives available through the Roadside Conservation Committee and through the report / study commissioned by WALGA.
- There are 1085 native species in the Shire of Bridgetown -Greenbushes, of which 2 are threatened and a further 17 are priority species.

These issues have been considered and addressed in the assessment against the clearing principles and above.

The application areas extend beyond the designated road reserves and into adjacent private properties and DEC managed lands in numerous locations.

There are numerous Aboriginal Sites of Significance mapped within the application areas. The applicant is advised to liaise with the Department of Indigenous Affairs regarding obligations under the Aboriginal Heritage Act 1972.

| | |
|--------------------|--|
| Methodology | References: |
| | MRWA, 2010 |
| | Submission, 2012 |
| | GIS Database: |
| | - Aboriginal Sites of Significance - DIA 02/12 |
| | - Cadastre - Landgate 03/12 |
| | - DEC Managed Lands & Waters - DEC 10/09 |

4. References

- DEC (2012) Site Inspection Report for CPS 1891/2, Shire of Bridgetown - Greenbushes. Conducted 1st and 2nd May 2012. Department of Environment and Conservation, Western Australia. DEC Ref: A504851
- Government of Western Australia (2011); 2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). WA Department of Environment and Conservation, 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.
- 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.
- 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 (2012) Public Submission in Relation to Clearing Permit Application CPS 1891/2. Received 22/03/2012. DEC Ref: A486413

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) |
| 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) |