



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5351/1
Permit Holder:	Commissioner of Main Roads Western Australia
Duration of Permit:	4 January 2013 to 4 January 2018

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 establishing/re-establishing maintenance zones around bridges.

2. Land on which clearing is to be done

South Western Highway road reserve, Walpole (PINs: 11589018 and 11589019)
South Western Highway road reserve, North Walpole (PIN: 11561347)
South Western Highway road reserve, Broke (PIN: 11561352)
South Western Highway road reserve, Shannon (PIN: 1261886)
South Western Highway road reserve, Glen Iris (PINs: 1292274, 11575861, 1319074 and 11580413)
South Western Highway road reserve, Waterloo (PIN: 1339300)
South Western Highway road reserve, Serpentine (PIN: 1373159, 1373132, 1373130 and 1373138)
Bussell Highway road reserve, Garbunbup (PIN: 11471120)
Queen Victoria Street road reserve, being Lot 300 on Plan 49594, North Fremantle
Queen Victoria Street road reserve, being Lot 301 on Plan 49594, Fremantle
Canning Highway road reserve, Melville (PIN: 1284137)
Canning Highway road reserve, Como (PINs: 11804755, 11804757, 11804756 and 11978294)
Unallocated Crown land, Mount Pleasant (PIN: 243596)
Albany Highway road reserve, Gosnells (PINs: 11809924, 11809923, 11599897 and 11809922)
Lot 313 on Plan 47440, Gosnells
Lot 500 on Plan 68140, Ascot
Lot 501 on Plan 68140, Bayswater
Lot 20 on Diagram 10065, Guildford
Lot 21 on Diagram 10065, Guildford
Bridge Street road reserve, Bassendean (PIN: 1288496)
Bridge Street road reserve, Guildford (PIN: 11879032)
Great Northern Highway road reserve, Middle Swan (PINs: 1260824 and 1337642)
Great Northern Highway road reserve, Upper Swan (PINs: 1172734 and 1335350)
Lot 51 on Plan 2858, Middle Swan
Lot 69 on Diagram 55842, Middle Swan
Lot 68 on Diagram 4348, Middle Swan
Lot 305 on Plan 47453, Henley Brook

3. Area of Clearing

The Permit Holder must not clear more than 2 hectares of native vegetation within the combined areas hatched yellow on attached Plan 5351/1a, Plan 5351/1b, Plan 5351/1c, Plan 5351/1d, Plan 5351/1e, Plan 5351/1f, Plan 5351/1g, Plan 5351/1h, Plan 5351/1i, Plan 5351/1j and Plan 5351/1k.

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 the project 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 *project activities* under the *Main Roads Act 1930* 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.

DEFINITION

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; and

weed/s means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.



M Warnock
A/MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

13 December 2012

Plan 5351/1a - South Western Highway - 99



LEGEND

- Road Centrelines
- Cadastre for labelling
- Clearing Instruments
- Areas Approved to Clear

Deep River 50cm Orthomosaic
- Landgate 2007



0 125 m
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.

M Warnock Date: 13/12/12

M Warnock
Officer with delegated authority under Section 20
of the Environmental Protection Act 1988

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



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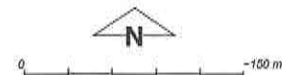
Plan 5351/1b - South Western Highway - 97



LEGEND

- Road Centrelines
- Cadastre for labelling
- Clearing Instruments
- Areas Approved to Clear

Deep River 30cm Orthomosaic
- Landgate 2007



Scale 1:5000

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Geocentric Datum Australia 1994

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M Warnock Date 13/12/12

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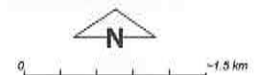
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Plan 5351/1c - South Western Highway - 95 and 91



LEGEND

-  Road Centrelines
 -  Cadastre for labelling
 -  Clearing Instruments
 -  Areas Approved to Clear
- Deep River 50cm Orthomosaic
- Landgate 2007



Scale 1:60030
(Approximate when reproduced at A4)

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

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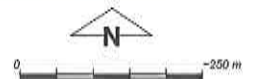
Plan 5351/1d - Bussell Highway - 0530A



LEGEND

-  Road Centrelines
-  Cadastre for labelling
-  Clearing Instruments
-  Areas Approved to Clear

Busselton 50cm Orthomosaic -
Landgate 2007



Scale 1:10000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Plan 5351/1e - South Western Highway - 430 and 0194A



LEGEND

- Road Centrelines
- Cadastral for labelling
- Clearing Instruments
- Areas Approved to Clear
- Burbury 50cm Orthomosaic - Landgate 2008

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



0 1 2.5 km

Scale 1:45000

(Approximate when reprojected 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.

revised Date: 13/12/12

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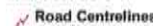

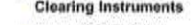
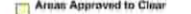
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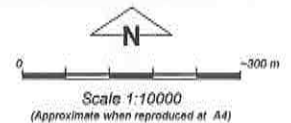
Plan 5351/1f - South Western Highway - 127



LEGEND

-  Road Centrelines
-  Cadastre for labelling
-  Clearing Instruments
-  Areas Approved to Clear

Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011



Geocentric Datum Australia 1994

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

Completed Date 13/12/12

M Warnock
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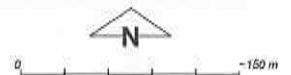
Plan 5351/1g - Queen Victoria St - 916



LEGEND

-  Road Centrelines
-  Cadastre for labelling
-  Clearing Instruments
-  Areas Approved to Clear

Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011



Scale 1:5000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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M Warnock Date: 13/12/12

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Plan 5351/1h - Canning Highway - 912/913



LEGEND

-  Road Centrelines
 -  Cadastral for labelling
 -  Clearing Instruments
 -  Areas Approved to Clear
- Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011



Scale 1:5000
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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M Warnock Date: 13/10/12

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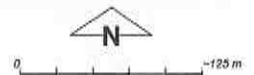
Plan 5351/1i - Albany Highway - 2



LEGEND

- Road Centrelines
- Cadastre for labelling
- Clearing Instruments
- Areas Approved to Clear

Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011



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.

M Warnock Date 13/12/12

M Warnock
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Plan 5351/1j - Garret Road -950 and Guildford Rd - 910



LEGEND

-  Road Centrelines
 -  Cadastre for labelling
 -  Clearing Instruments
 -  Areas Approved to Clear
- Perth Metropolitan Central 15cm
Orthomosaic - Lanogate 2011

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



Scale 1:24989
(Approximate when reproduced at A4)

Geocentric Datum, Australia 1994

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

Completed Date: 13/08/12

M Wamock

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

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Plan 5351/1k - Great Northern Highway - 671/672



LEGEND

-  Road Centrelines
 -  Cadastral for labelling
 -  Clearing Instruments
 -  Areas Approved to Clear
- Perth Metropolitan Central
15cm Orthomosaic - Landgate
2011**



Scale 1:45001
(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 13/12/12

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of the Environmental Protection Act 1986

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1. Application details

1.1. Permit application details

Permit application No.: 5351/1
 Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Commissioner of Main Roads Western Australia

1.3. Property details

Property:

- ROAD RESERVE (NORTH WALPOLE 6398)
- ROAD RESERVE (WALPOLE 6398)
- ROAD RESERVE (BROKE 6398)
- ROAD RESERVE (SHANNON 6262)
- ROAD RESERVE (SHANNON 6262)
- ROAD RESERVE (CARBUNUP RIVER 6280)
- ROAD RESERVE (GLEN IRIS 6230)
- ROAD RESERVE (PICTON 6229)
- ROAD RESERVE (GLEN IRIS 6230)
- WATER FEATURE (DAVENPORT 6230)
- UNALLOCATED CROWN LAND (PICTON 6229)
- ROAD RESERVE (WATERLOO 6228)
- ROAD RESERVE (SERPENTINE 6125)
- ROAD RESERVE (SERPENTINE 6125)
- LOT 301 ON PLAN 49594 (FREMANTLE 6160)
- LOT 300 ON PLAN 49594 (NORTH FREMANTLE 6159)
- ROAD RESERVE (MELVILLE, CITY OF)
- UNALLOCATED CROWN LAND (MOUNT PLEASANT 6153)
- ROAD RESERVE (COMO 6152)
- ROAD RESERVE (GOSNELLS 6110)
- ROAD RESERVE (GOSNELLS 6110)
- LOT 313 ON PLAN 47440 (GOSNELLS 6110)
- LOT 500 ON PLAN 68140 (ASCOT 6104)
- LOT 501 ON PLAN 68140 (Lot No. 501 GARRATT BAYSWATER 6053)
- ROAD RESERVE (BASSENDEAN 6054)
- LOT 20 ON DIAGRAM 10065 (GUILDFORD 6055)
- ROAD RESERVE (GUILDFORD 6055)
- LOT 21 ON DIAGRAM 10065 (GUILDFORD 6055)
- ROAD RESERVE (MIDDLE SWAN 6056)
- ROAD RESERVE (MIDDLE SWAN 6056)
- LOT 68 ON DIAGRAM 4348 (House No. 345 GREAT NORTHERN MIDDLE SWAN 6056)
- LOT 69 ON DIAGRAM 55842 (Lot No. 69 GREAT NORTHERN MIDDLE SWAN 6056)
- LOT 51 ON PLAN 5828 (Lot No. 51 GREAT NORTHERN MIDDLE SWAN 6056)
- ROAD RESERVE (MIDDLE SWAN 6056)
- ROAD RESERVE (UPPER SWAN 6069)
- ROAD RESERVE (UPPER SWAN 6069)
- LOT 305 ON PLAN 47453 (HENLEY BROOK 6055)

Local Government Area: Cities of Bayswater, Belmont, Busselton, Bunbury, Fremantle, Gosnells, Melville, South Perth and Swan, Shires of Dardanup, Manjimup and Serpentine-Jarrahdale, Towns of Cottesloe and Bassendean

Colloquial name:

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant
 Decision Date: 13 December 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
The fifteen areas under application have been mapped as the following Beard Vegetation Associations:	Main Roads Western Australia are proposing to clear up to 2 hectares of native vegetation for the purpose of re establishing maintenance zones around 15 bridges in the South West and Metropolitan regions.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The condition of the vegetation was determined via digital imagery.
3 - Medium forest; jarrah-marri			
6 - Medium woodland; tuart & jarrah			
27 - Low woodland; paperbark (Melaleuca sp.)	The majority of the areas under application have been previously cleared and are in a degraded (Keighery, 1994) condition.		
51- Sedgeland; reed swamps, occasionally with heath			
109 - Hummock grasslands, shrub steppe; Eucalyptus youngiana over hard spinifex			
968 - Medium woodland; jarrah, marri & wandoo			
998 - Medium woodland; tuart			
1000 - Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree (Melaleuca Spp.)			
1136 - Medium woodland; marri with some jarrah, wandoo, river gum and casuarina			
1144 - Tall forest; karri & marri (Corymbus calophylla)			
1182 - Medium woodland; Eucalyptus rudis & Melaleuca raphiophylla			
(Shepherd et al. 2001)			

3. Assessment of application against clearing principles

Comments

Main Roads Western Australia are proposing to clear up to 2 hectares of native vegetation for the purpose of re establishing maintenance zones around 15 bridges in the South West and Metropolitan regions. The proposed clearing at each site will not exceed 0.1 hectares and is for the protection of bridges from bushfires and other natural events, and to provide sufficient access for inspection and maintenance purposes.

The 15 sites under application are predominately in a degraded (Keighery, 1994) condition due to past disturbances. Due to the small area proposed to be cleared at each site and the degraded (Keighery, 1994) condition the application areas are not likely to contain a high level of biodiversity or significant fauna habitat, or be significant as a remnant.

Rare flora has been recorded in close proximity to an unnamed bridge on South Western Hwy, however the preferred habitat for this species is not available within the application area. The applicant has advised that a targeted survey for this species will be completed prior to clearing (MRWA, 2012).

Carunup River and Millars Creek bridges are located within the buffer zones of threatened ecological communities (TEC). As the proposed clearing is not within the mapped boundaries of these TEC it is not likely to impact upon these TECs. Weed and dieback management practices will assist in mitigating any potential impacts.

The proposed clearing will involve the removal of riparian vegetation. To reduce impacts to the adjacent rivers the applicant has committed to removing vegetation to a height of 100mm to retain bank stability (MRWA, 2012). Retaining vegetation at this height will ensure that appreciable land degradation, deterioration of surface water and flooding does not occur.

Three of the proposed bridges fall with conservation reserves, being Dombakup Brook, Poison Gully and Kangaroo Gully. A number of the remaining bridges are located within 10 metres of conservation reserves. The disturbance caused by proposed clearing will increase the risk of weeds and dieback being spread into these reserves. Weed and dieback management practices will reduce the potential impact.

An assessment against the ten clearing principles has determined that the proposed clearing is at variance to principle (f), may be at variance to principle (h) and is not likely to be at variance to the remaining clearing principles.

Methodology

References:

Keighery (1994)
MRWA (2012)

GIS Database:

- Hydrogeology, Linear
- Pre European Vegetation
- SAC Biodatasets - accessed November 2012

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

Comments

The majority of the proposed clearing falls within road reserves managed by Main Roads Western Australia.

A number of bridge sites under application fall within Aboriginal Sites of Significance. The applicant is required to liaise with the Department of Indigenous Affairs regarding their obligations under the Aboriginal Heritage Act 1972.

A number of bridge sites under application fall within surface water areas proclaimed under the Rights in Water and Irrigation Act. The Department of Water (DoW) has advised that if any of the proposed maintenance, road widening and/or bridge works be within proclaimed surface water areas and likely to result in the interference of the bed and/or banks of any watercourse, a Permit will be required (DoW, 2012).

The DoW has the mandate, under the Water Agencies (Powers) Act 1984, to manage the State's water resources, which includes watercourses, surface water and surplus water. These responsibilities concentrate on the assessment, conservation, protection and management of those water resources and their environment (DoW, 2012). Hence, best management practices are to minimise clearing where possible and to stabilise and revegetate disturbed areas. Where road widening is proposed, it should be encouraged to be in the direction away from vegetation buffers protection waterways. The installation of roadside drainage should not be directly to waterways. Overland flow through vegetated areas prior to runoff entering the waterways should be incorporated into the drainage design (DoW, 2012).

The proposed clearing at 'Map f' Busselton Highway 1369 intersects DoW owned land. Should works be carried out on the DoW owned land, permission to access and undertake the works will be required by the DoW (DoW, 2012).

The Cities of Bayswater, Belmont, Busselton, Bunbury, Fremantle, Gosnells, Melville, South Perth and Swan, Shires of Dardanup, Manjimup and Serpentine-Jarrahdale, Towns of Cottesloe and Bassendean were notified of the proposed clearing and the following comments were received:

The Shire of Manjimup (2012) has no objection to the proposed clearing.

The City of Melville (2012) has advised that the risk of fire on the western side of Canning Bridge is very low.

The Town of Bassendean (2012) has advised there are several mature Eucalyptus rudis trees within 10 metres of the Guilford Road bridge. These trees are important from a local biodiversity perspective, they have been growing at this location for numerous year (Town of Bassendean, 2012). Council Policy titled 'Local Biodiversity Policy' states that the Town of Bassendean values biodiversity and that remanent endemic vegetation and biodiversity corridors (or ecological linkages) are to be protected (Town of Bassendean, 2012). The City opposes the clearing.

The Shire of Serpentine Jarrahdale (2012) has advised that; the applicant will require a Bed and Banks permit, that the clearing is likely to cause soil erosion, there is potential for fauna habitat to be removed (reference is made to black cockatoos), weed control will be needed, a ten metre buffer is excessive and that the Serpentine River is a registered significant indigenous site. The Shire of Serpentine Jarrahdale suggests that Main Roads paint the timber portions of the bridges with the same fire retardant chemical that Western Power use on their power poles.

The City of Fremantle (2012) advises that the clearing of native vegetation around the Queen Victoria Bridge should be treated in a sensitive manner. The implementation of fuel reduction methods such as chemical weed control, thinning the vegetation to a more expectable level, this could include leaving some of the more mature trees. The existing vegetation offers slope stability and amenity to the area.

The City of Belmont (2012) raised concerns in regards to illegal vehicle access beneath the bridge by fisherman, the extent of the mapped clearing, the necessity of clearing within the median and that the clearing at Garratt Road Bridge is within an identified Perth Biodiversity Project regional biodiversity linkage. In addition the City has stated that the verge on Ascot Waters side of the bridge contains *Eucalyptus camaldulensis* and *Agonis flexuosa* which are pruned heavily due to the powerlines. If removal is essential for fire hazard reduction the City has no objections.

Methodology References:
 City of Belmont (2012)
 City of Fremantle (2012)
 City of Melville (2012)
 Shire of Manjimup (2012)
 Shire of Serpentine Jarrahdale (2012)
 Town of Bassendean (2012)

GIS Database:
 - Aboriginal Sites of Significance
 - Local Government Authorities
 - RIWI, Surface Water Areas

4. References

- City of Belmont (2012) Advice provided in reference to Clearing Permit Application CPS 5351/1 (DEC Ref: A573563).
 City of Fremantle (2012) Advice provided in reference to Clearing Permit Application CPS 5351/1 (DEC Ref: A573804).
 City of Melville (2012) Advice provided in reference to Clearing Permit Application CPS 5351/1 (DEC Ref: A570275).
 DoW (2012) Advice regarding the applicant responsibilities under the Rights in Water and Irrigation Act 1914. Department of Water, Western Australia (DEC Ref: A578675).
 Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
 MRWA (2012) Supporting Documentation for Clearing Permit Application CPS 5351/1. Main Roads Western Australia (DEC Ref: A562086).
 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.
 Shire of Manjimup (2012) Advice provided in reference to Clearing Permit Application CPS 5351/1 (DEC Ref: A571134).
 Shire of Serpentine Jarrahdale (2012) Advice provided in reference to Clearing Permit Application CPS 5351/1 (DEC Ref: A573058).
 Town of Bassendean (2012) Advice provided in reference to Clearing Permit Application CPS 5351/1 (DEC Ref: A569636).

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)