



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5192/1
Permit Holder:	Department of Water
Duration of Permit:	26 October 2012 – 26 October 2017

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 groundwater investigation and monitoring bores.

2. Land on which clearing is to be done

LOT 2162 ON PLAN 23591 (BLYTHEWOOD 6208)
SOUTHWEST HIGHWAY ROAD RESERVE PIN 11906697 (BLYTHEWOOD 6208)
OLD BUNBURY ROAD RESERVE PIN 1346572 (LAKE CLIFTON 6215)
FISHERMANS ROAD RESERVE PIN 1382360 (WEST COOLUP 6214)

3. Area of Clearing

The Permit Holder must not clear more than 0.15 hectares of native vegetation within the combined areas hatched yellow on attached Plan 5192/1a, Plan 5192/1b and Plan 5192/1c.

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 right to access land under the *Land Administration Act 1997* or any other written law.

Roxane Shadbolt
A/ MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

4 October 2012

Plan 5192/1a



LEGEND

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

Perth Metropolitan South
15cm Orthomosaic - Landgate
2011

Scale 1:1500
(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.

R. Shadbolt Date 11/10/12

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

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

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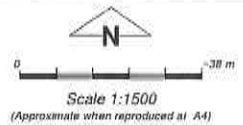
Plan 5192/1b



LEGEND

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

Perth Metropolitan South
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.

R. Shadbolt Date *4/10/12*

R. Shadbolt

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

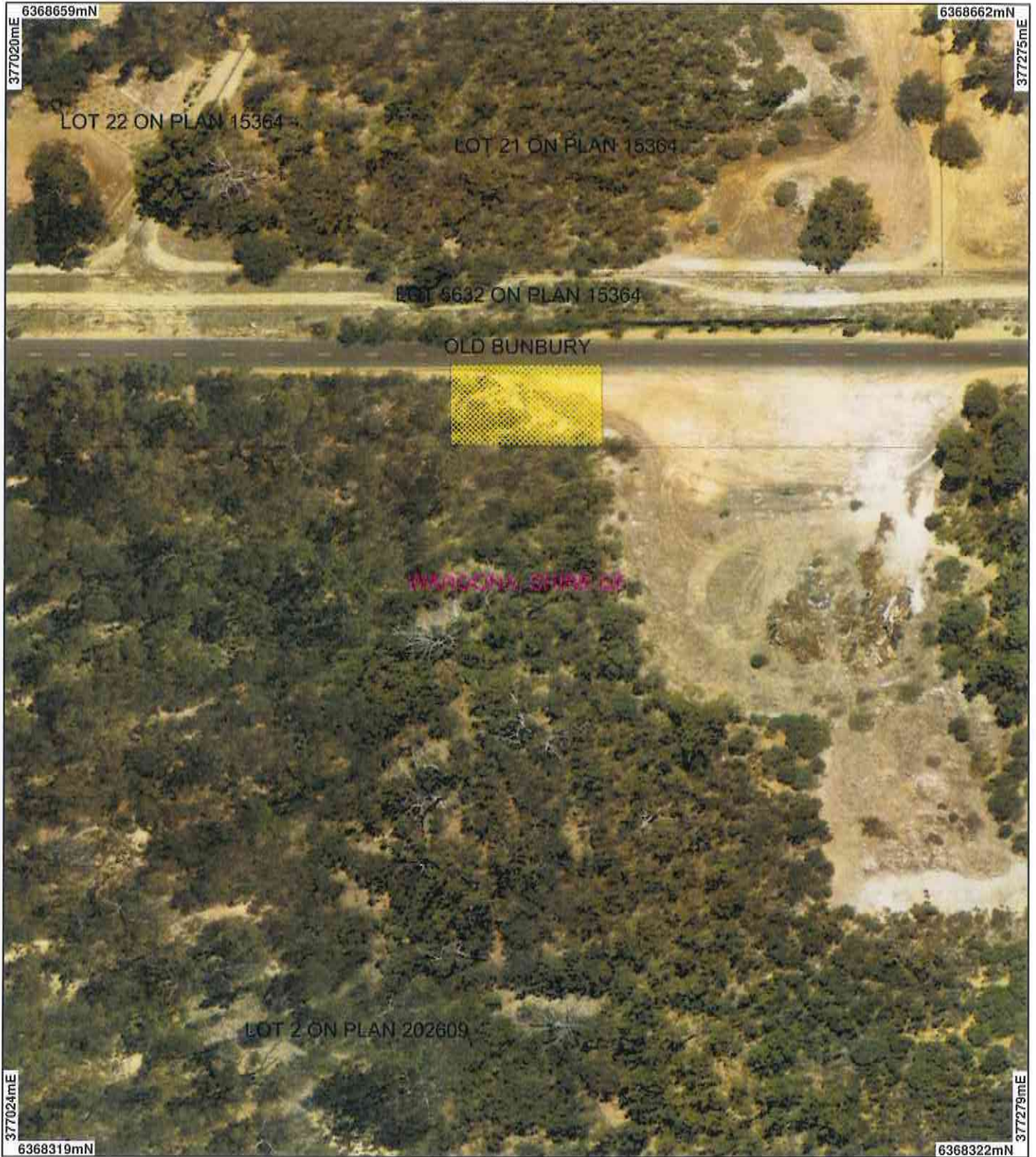
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Plan 5192/1c



LEGEND

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

Perth Metropolitan South
15cm Orthomosaic - Landgate
2011



Scale 1:1500
(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.

R. Sheeholt Date *4/10/12*

R. Sheeholt

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

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1. Application details

1.1. Permit application details

Permit application No.: 5192/1
 Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Department of Water

1.3. Property details

Property: LOT 2162 ON PLAN 23591 (BLYTHEWOOD 6208)
 SOUTHWEST HIGHWAY ROAD RESERVE (BLYTHEWOOD 6208)
 OLD BUNBURY ROAD RESERVE (LAKE CLIFTON 6215)
 FISHERMANS ROAD RESERVE (WEST COOLUP 6214)

Local Government Area: Shire of Murray; Shire of Waroona

Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.15		Mechanical Removal	Geotechnical investigations

1.5. Decision on application

Decision on Permit Application: GRANT
 Decision Date: 4 October 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
Beard Vegetation Association: 968- Medium woodland; jarrah, marri & wandoo (South West Highway site)	The application is to clear up to a total of 0.15 hectares of native vegetation within Southwest Highway reserve and Lot 2162 on Plan 23591, Blythewood; Fishermans Road reserve, West Coolup; Old Bunbury Road reserve, Lake Clifton; for the purpose of groundwater investigation and monitoring bore establishment.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery, 1994)	Vegetation condition was determined through aerial imagery and site photographs provided with the application (DoW, 2012).
1000 - Mosaic: Medium forest; jarrah-marri / Low woodland; banksia / Low forest; teatree (Melaleuca Spp.) (Fishermans Road site)	The application areas are located within road reserves and are adjacent to existing cleared areas.	To	
998 - Medium woodland; tuart (Old Bunbury Road Site) (Shepherd et al., 2001)	The vegetation under application appears to be predominantly cleared and to support scattered over storey species with little understorey. The vegetation under application is considered to be in degraded to completely degraded (Keighery, 1994) condition.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery, 1994)	
Heddlle Vegetation Complex: Guilford Complex - A mixture of open forest to tall open forest of Corymbia calophylla (Marri) - Eucalyptus wandoo (Wandoo) - Eucalyptus marginata (Jarrah) and woodland of Eucalyptus wandoo (Wandoo) (with rare occurrences of Eucalyptus lane-poolei (Salmon White Gum)). Minor components include Eucalyptus rudis (Flooded Gum) - Melaleuca raphiophylla (Swamp Paperbark). (South West Highway site)			
Cottesloe Complex central and south - : Mosaic of woodland of Eucalyptus gomphocephala (Tuart) and open forest of Eucalyptus gomphocephala (Tuart) - Eucalyptus marginata (Jarrah) -			

Corymbia calophylla (Marri);
closed heath on the Limestone
outcrops. (Fishermans Road site)

Southern River Complex (Old
Bunbury Road Site)
(Hedde et al, 1980)

3. Assessment of application against clearing principles

Comments

The application is to clear up to 0.15 hectares of native vegetation within Southwest Highway reserve and Lot 2162 on Plan 23591, Blythewood, Fishermans Road reserve, West Coolup, and Old Bunbury Road reserve, Lake Clifton, for the purpose of groundwater investigation and monitoring bore establishment.

The application areas are predominantly cleared and appear to support scattered over storey species with little understorey. The vegetation under application is considered to be in degraded to completely degraded (Keighery, 1994) condition and is not considered representative of the mapped vegetation types.

There are numerous records of flora and fauna of conservation significance in the local area (10 kilometre radius), however considering the small amount of clearing proposed and the condition of the vegetation under application, the proposed clearing is not likely to comprise significant habitat for these species, or support high levels of biodiversity.

There are no watercourses or wetlands mapped within the Fishermans Road and Old Bunbury Road application areas, however the South Western Highway application area is within an area of Multiple Use Wetland. Considering the vegetation condition and small amount of clearing, the proposed clearing is unlikely to impact wetlands, result in appreciable land or water quality degradation, or increase the risk or intensity of flooding.

Considering the above, the proposed clearing is not likely to be at variance to the clearing principles.

Methodology

References:

DoW, 2012

Keighery, 1994

GIS Databases:

- Geomorphic wetlands (Mgmt Categories), Swan Coastal Plain - DEC

- Hydrography, linear - DoW 02/04

- Perth Metropolitan Area South 20cm Orthomosaic - Landgate 2011

- Pinjarra 50cm Orthomosaic - Landgate 2008

- Pre-European vegetation - DA 01/01

- SAC Bio datasets - Accessed 08/12

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

Comments

The applicant has obtained landowner support for the proposed clearing (MRWA, 2012; Shire of Murray, 2012; Shire of Waroona, 2012).

The applicant reduced the number of application areas and amount of clearing required during the assessment process.

There are no Aboriginal Sites of Significance mapped within the application areas.

The application areas are located in the Murray Groundwater Area proclaimed under the Rights in Water and Irrigation Act 1914.

Methodology

References:

MRWA, 2011

Shire of Murray, 2012

Shire of Waroona, 2012

GIS Databases:

- Aboriginal Sites of Significance - DIA 02/12

- RIWI Act, Groundwater areas - DoW 04/02

- RIWI Act, Surface water areas - DoW 04/02

4. References

- DoW (2012) Application for Clearing Permit CPS 5192/1 and Supporting Information and Correspondence. Department of Water, Western Australia. DEC Ref: A532765; A548319
- Heddle, 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.
- MRWA (2011) Authorisation to Access South Western Highway Road Reserve to Undertake Drilling. 12/08/2011. Main Roads Western Australia. DEC Ref: A536588
- 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 Murray (2012) Support for Clearing Permit Application CPS 5192/1 Within Shire Road Reserves. 27/09/2012. Shire of Murray, Western Australia. DEC Ref: A550732
- Shire of Waroona (2012) Support for Clearing Permit Application CPS 5192/1 Within Shire Road Reserves. 24/09/2012. Shire of Waroona, Western Australia. DEC Ref: A548444

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)