



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5351/3
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

ROUTE_NAME	CROSSING_NAME	LATITUDE	LONGITUDE	LGA
	Tonkin Highway (near Armadale Road)	-32.14793	115.956915	City of Armadale
Albany Highway	Causeway (Perth end)	-31.96384	115.8815	City of Perth
Albany Highway	Causeway (Victoria Park end)	-31.966	115.886	City of Victoria Park
Albany Hwy	Canning River	-32.068	115.9941	City of Gosnells
Armadale Road	PSP / future busway	-32.12796	115.858011	City of Cockburn
Bindoon Moora Rd	Brockman River	-31.3457	116.11466	Shire of Chittering
Bindoon Moora Rd	Brockman River	-31.29904	116.085648	Shire of Chittering
Bussell Hwy	Sabina River	-33.3281	115.762	Shire of Dardanup
Bussell Hwy	Carbunup River	-33.7026	115.1585	City of Busselton
Canning Hwy	Canning River	-32.0112	115.8523	City of South Perth
Canning Hwy	Canning River	-32.0107	115.8545	City of South Perth
Edgewater Road Footbridge and Paths	Kwinana Freeway and rail	-31.97656	115.84825	City of South Perth
Garratt Rd	Swan River	-31.9323	115.9164	City of Belmont / City of Bayswater
Garratt Rd	Swan River	-31.9323	115.9163	City of Belmont / City of Bayswater
Gentilli Way	Kwinana Freeway and rail	-32.01744	115.857998	City of South Perth
Graham Farmer Freeway	Swan River (Windan Bridge)	-31.94765	115.880879	Perth/Vincent

ROUTE_NAME	CROSSING_NAME	LATITUDE	LONGITUDE	LGA
Graham Farmer Freeway	Eastern side approach to 1324	-31.94738	115.885177	Town of Victoria Park
Great Northern Hwy	Brockman River	-31.41348	116.09898	Shire of Chittering
Great Northern Hwy	Jane Brook (Sweeting Bridge)	-31.863	116.0139	City of Swan
Great Northern Hwy	Swan River	-31.7816	116.0223	City of Swan
Guildford Rd	Swan River	-31.9002	115.9612	Town of Bassendean
Hardy Street Footbridge and Paths	Kwinana Freeway and rail	-31.99661	115.855142	City of South Perth
Kwinana Freeway	Swan River	-31.96338	115.84718	City of Perth / City of South Perth
Kwinana Freeway	Canning River at Mount Henry Bridge	-32.03152	115.859795	City of South Perth
Kwinana Freeway	Swan River	-31.96188	115.84701	City of Perth
Kwinana Freeway	Canning River at Mount Henry Bridge (downstream)	-32.03144	115.859523	City of South Perth
Kwinana Freeway	Southern approach to Narrows Duplication	-31.96492	115.846411	City of South Perth
Kwinana Freeway PSP	Kwinana Freeway-Mill Point Road ramp	-31.9652	115.84606	City of South Perth
Leach Highway	Canning River (Shelley Bridge)	-32.02356	115.90191	City of Canning
Mitchell Freeway	Northern approach to Narrows Duplication	-32.19415	116.016319	Shire of Serpentine Jarrahdale
Mount Eliza Footbridge	Mounts Bay Road	-31.9608	115.8463	City of Perth
Nicholson Road	Roe Highway PSP	-32.05257	115.93132	City of Gosnells
Perth-Armadale Railway Line PSP	Canning River	-32.06102	115.991423	City of Gosnells
Perth-Armadale Railway Line PSP	Freight Rail Line 10	-31.98269	115.980306	City of Armadale
Queen Victoria St	Swan River	-32.04509	115.7545	City of Fremantle / Town of East Fremantle
Reid Highway	Bennett Brook	-31.86049	115.955276	City of Swan
Reid Highway	Swan River	-31.86437	116.007028	City of Swan
Roe Highway	Roe Highway	-32.03249	115.96479	City of Gosnells
Roe Highway - eastbound	Canning River	-32.04015	115.954671	City of Gosnells
Roe Highway - westbound	Canning River	-32.04039	115.954853	City of Gosnells
Rowley Road	Kwinana Freeway and rail	-32.18063	115.856718	City of Kwinana
Rowley Road	Kwinana Freeway PSP	-32.18062	115.856081	City of Kwinana
Russell Road	Kwinana Freeway and rail	-32.15734	115.856826	City of Cockburn
Russell Road	Kwinana Freeway PSP	-32.15735	115.85616	City of Cockburn

ROUTE_NAME	CROSSING_NAME	LATITUDE	LONGITUDE	LGA
Safety Bay Road	Ennis Avenue	-32.32521	115.76675	City of Rockingham
Safety Bay Road	Mandurah Rail Line	-32.32505	115.768097	Rockingham
South Western Highway	Wungong Brook	-32.17784	116.015448	Shire of Serpentine Jarrahdale
South Western Hwy	Preston River	-33.3506	115.678	City of Bunbury
South Western Hwy	Millars Creek	-34.9946	116.811	Shire of Manjimup / Shire of Walpole
South Western Hwy	Weld River	-34.6936	116.5185	Shire of Manjimup
South Western Hwy	Inlet River	-34.918	116.5693	Shire of Manjimup
South Western Hwy	Serpentine River	-32.3669	115.9489	Shire of Serpentine-Jarrahdale
South Western Hwy	Unknown	-34.8071	116.5303	Shire of Manjimup
South Western Hwy	Walpole River	-34.9745	116.7122	Shire of Manjimup
Stirling Highway	Swan River (Stirling Bridge)	-32.03948	115.75966	Town of East Fremantle / City of Fremantle
Thelma Street Footbridge and Paths	Kwinana Freeway and rail	-32.02398	115.85929	City of South Perth
Tonkin Highway	Swan River	-31.92876	115.935737	Bassendean/Belmont
Tonkin Highway	Abernethy Road	-31.98068	115.97849	City of Belmont
Tonkin Highway	Canning River	-32.08586	116.017392	City of Gosnells
Tonkin Highway	Canning River	-32.08536	116.017159	City of Gosnells
Tonkin Highway	Wungong River	-32.11303	115.98613	City of Gosnells
Tonkin Highway	Wungong River	-32.11323	115.9862	Armadale
West Coast Highway	pedestrian underpass	-31.87601	115.762865	City of Stirling
West Coast Highway	pedestrian underpass	-31.88387	115.754937	City of Stirling

3. Area of clearing

- (a) The Permit Holder must not clear more than 6.4 hectares of native vegetation in total.
- (b) The clearing described in condition 3(a) of this Permit may only occur within a 10 metre radius of each bridge described in condition 2 of this Permit, subject to the Permit Holder having the power to clear native vegetation for those activities under any written law.

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 any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in the Department of Environment and Conservation Regional Weed Assessments, regardless of ranking; or
- (c) not indigenous to the area concerned.



M Warnock
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

25 July 2013

CPS 5351/3, 25 July 2013



Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 5351/3
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 (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)
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)
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)
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)
LOT 305 ON PLAN 47453 (HENLEY BROOK 6055)
ROAD RESERVE (ARROWSMITH 6525)
ROAD RESERVE (COOMBERDALE 6512)
ROAD RESERVE (MOOLIABEENEE 6504)
ROAD RESERVE (BINDOON 6502)
ROAD RESERVE (RAVENSTHORPE 6346)
ROAD RESERVE (NORNALUP 6333)

Local Government Area: Various Local Governments
Colloquial name:

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant

Decision Date: 25 July 2013

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 areas under application have been mapped within various Beard vegetation associations between the Shire of Chittering in the North and Shire of Walpole in the South.	<p>The amended application is to clear up to 6.4 hectares of native vegetation for the purpose of re establishing maintenance zones around 64 bridges in the South West and Metropolitan regions of Western Australia.</p> <p>The majority of the areas under application have been previously cleared and are in a degraded (Keighery, 1994) condition.</p>	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The condition of the vegetation was determined via digital imagery.

3. Assessment of application against clearing principles

Comments

Proposal is not likely to be at variance to this Principle

The amended application is to clear up to 6.4 hectares of native vegetation for the purpose of re establishing maintenance zones around 64 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 natural events (bushfires or storms) and to provide sufficient access for inspection and maintenance purposes.

The 64 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 of the vegetation, the application areas are not likely to contain a high level of biodiversity, 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 and a bridge on Armadale Road however, the preferred habitat for these species is not found within the application area. The applicant has previously advised that a targeted survey for the species potentially occurring on South West Hwy 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, 2013). Retaining vegetation at this height will ensure that appreciable land degradation, deterioration of surface water and flooding does not occur.

Ten of the proposed bridges fall within conservation reserves, a number of the remaining bridges are also located in close proximity to conservation reserves. The disturbance caused by the 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 (2013)
MRWA (2012)

GIS Database:

- Hydrogeology, Linear
- Pre European Vegetation
- SAC Biodatasets - accessed November 2012
- DEC Tenure
- Bush Forever

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

Comments

The applicant was sent a 28 day notification of amendment on the 24 June 2013, no response was received.

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 previously 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 bed and banks 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 the vegetation buffers surrounding waterways. The installation of roadside drainage should not channel water directly towards waterways. Overland flow through vegetated areas prior to runoff entering the waterways should be incorporated into the drainage design (DoW, 2012).

The majority of the proposed clearing falls within road reserves managed by Main Roads Western Australia. The proposed clearing along Busselton Highway 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 (2012).

Each Local Government in which clearing may be undertaken was notified of the application. No comments were received.

Methodology

References:
DOW (2012)

GIS Database:

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

4. References

- DoW (2012) Advise 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).
- MRWA (2013) Supporting Documentation for Clearing Permit Application CPS 5351/3. Main Roads Western Australia (DEC Ref: A619628).

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