

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:

CPS 7596/1

Permit Holder:

Shire of Broome

Duration of Permit:

26 August 2017 – 26 August 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 Stage 2 upgrade to Crab Creek Road and Stage 1 drainage chutes.

2. Land on which clearing is to be done

Lot 531 on Deposited Plan 73704, Roebuck

Lot 539 on Deposited Plan 73704, Roebuck

Lot 594 on Deposited Plan 71791, Roebuck

Lot 501 on Deposited Plan 403769, Roebuck

3. Area of Clearing

The Permit Holder must not clear more than 4.71 hectares of native vegetation within the area cross hatched yellow on attached Plan 7596/1.

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 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.

PART II - MANAGEMENT CONDITIONS

6. 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.

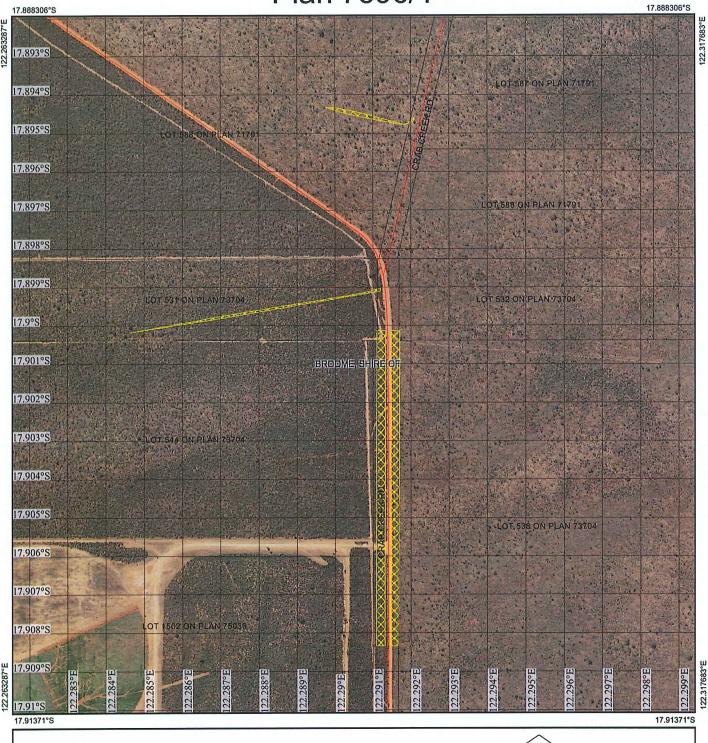
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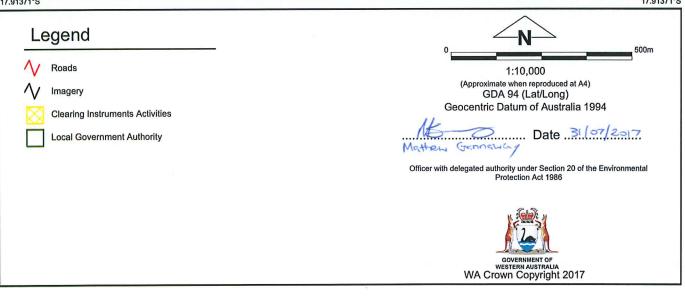
Mathew Gannaway MANAGER CLEARING REGULATION

Officer delegated under Section 20 of the Environmental Protection Act 1986

31 July 2017

Plan 7596/1







Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.:

Permit type:

7596/1

Purpose Permit

1.2. Applicant details

Applicant's name:

Shire of Broome

1.3. Property details

Property:

Lot 531 on Deposited Plan 73704, Roebuck Lot 539 on Deposited Plan 73704, Roebuck Lot 594 on Deposited Plan 71791, Roebuck Lot 501 on Deposited Plan 403769, Roebuck

Local Government Authority:

DER Region: DPaW District: Localities: Shire of Broome North West West Kimberly Roebuck

1.4. Application

Clearing Area (ha)

4.71

No. Trees

Method of Clearing Mechanical Removal For the purpose of:

Road Construction or Upgrade

1.5. Decision on application

Decision on Permit:

Grant

Decision Date:

31 July 2017

Reasons for Decision:

The clearing permit application was received on 15 May 2017 and has been assessed against the clearing principles, planning instruments and other matters in accordance with section 510 of the *Environmental Protection Act 1986*, and it has been concluded that the proposed clearing may be at variance to Principle (a) and is not likely to be at variance to the remaining clearing Principles.

In determining to grant a clearing permit, the Delegated Officer found that the proposed clearing is unlikely to lead to an unacceptable risk to the environment.

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

The application area is mapped as: Beard vegetation association 750 described as Shrublands, pindan; Acacia tumida shrubland with grey box and cabbage gum medium woodland over ribbon grass and curley spinifex (Shepherd et al., 2001).

A site inspection described the vegetation as mixed *Acacia* species thicket over tussock grasses (mainly *Cymbopogon* sp. and *Sorghum* sp.) and numerous herbs with occasional emergent *Corymbia* sp., with a small section of open woodland comprised *Corymbia* sp. over mixed *Acacia* species scrub over mixed herbs and tussock grasses (DER, 2017).

Clearing Description

The application is for the clearing of 4.71 hectares of native vegetation within Lots 531 and 539 on Deposited Plan 73704, Lot 594 on Deposited Plan 71791, and Lot 501 on Deposited Plan 403769, Roebuck, for the purpose of the Stage 2 upgrade to Crab Creek Road and Stage 1 drainage chutes.

Vegetation Condition

Very good: Vegetation Structure altered, obvious signs of disturbance (Keighery, 1994).

To:

Excellent: Vegetation structure intact, disturbance affecting individual species and weeds are nonaggressive species (Keighery, 1994).

Comment

The condition of the vegetation within the application area was determined by a site inspection undertaken by the former Department of Environment Regulation (DER), on 22 February 2017 (DER, 2017).

3. Assessment of application against clearing principles

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

Comments

Proposed clearing may be at variance to this Principle

The application is for the clearing of 4.71 hectares of native vegetation within Lots 531 and 539 on Deposited

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Plan 73704, Lot 594 on Deposited Plan 71791, and Lot 501 on Deposited Plan 403769, Roebuck, for the purpose of the Stage 2 upgrade to Crab Creek Road and Stage 1 drainage chutes.

Vegetation types throughout the application area range from mixed *Acacia* species thicket over tussock grasses (mainly *Cymbopogon* sp. and *Sorghum* sp.) and numerous herbs with occasional emergent *Corymbia* species. A small section of the application area is an open woodland comprised *Corymbia* sp. over mixed *Acacia* species scrub over mixed herbs and tussock grasses. The variation in vegetation type appeared to be a reflection of time since fire (DER, 2017).

The application area ranges from very good to excellent (Keighery, 1994) condition with minimal disturbance when removed from the edge of the road bank (DER, 2017).

Twenty two priority flora species have been recorded within the local area (40 kilometre radius). A likelihood of occurrence assessment determined that five of these species are likely occur within the application area based on habitat requirements. Given the narrow linear shape and the small size of the application area in the context of the extent of surrounding vegetation, the proposed clearing is not likely to impact on the conservation status of these species or to have a significant impact on a local or regional population.

A discussed in Principle (b), the application area provides suitable habitat for the greater bilby (former Department of Parks and Wildlife [Parks and Wildlife], 2017). The application area is also situated within close proximity to significant roosting habitat for migratory birds and may therefore also provide habitat for these species. Given the extent of vegetation remaining within the local area (98.5 per cent pre-European vegetation remaining within the local area), the vegetation within the application area is not likely to provide significant habitat for these species.

No known priority ecological communities (PEC's) are mapped within the application area, however the application area occurs within 850 metres of the mapped PEC Relict dune system dominated by extensive stands of Minyjuru (Mangarr) Sersalisia (formerly Pouteria) sericea. Given that no clearing will occur within the boundaries of this PEC, the proposed clearing is not likely to impact this community.

The local area retains approximately 98.5 per cent native vegetation cover (302,420 hectares). The proposed clearing of 4.71 hectares represents 0.0015 per cent of native vegetation within the local area.

Given the application area contains suitable habitat for conservation significant flora and fauna, the proposed clearing may be at variance to this Principle; however given the narrow, linear shape and the small size of the application area in the context of the extent of surrounding vegetation, the proposed clearing is not likely to result in a significant impact to conservation significant flora or fauna.

Methodology

References: DER (2017) Keighery (1994) Parks and Wildlife (2017)

GIS Datasets:

- SAC Bio Datasets - accessed July 2017

(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

Comments

Proposed clearing is not likely to be at variance to this Principle

There are 34 conservation significant species known to occur within the local area (Department of Biodiversity, Conservation and Attractions, 2007-). A field survey of a larger area located adjacent to the application area identified Pindan Woodland as the major habitat type in the area (GHD, 2010). Given the habitat type identified, seven conservation significant species have the potential to occur in the application area, these being, the greater bilby (Macrotis lagotis), grey falcon (Falco hypoleucos), golden bandicoot (Isoodon auratus subsp. auratus), great desert skink (Liopholis kintorei), northern brushtailed possum (Trichosurus vulpecula subsp. amhemensis), peregrine falcon (Falco peregrinus) and the spectacled hare-wallaby (Lagorchestes conspicillatus subsp. leichatdti). A further two priority 4 fauna species, the bush stone curlew (Burhinus grallarius) and Australian bustard (Ardeotis australis) were recorded during the field survey (GHD, 2010).

The application area provides suitable habitat for the greater bilby, which includes mulga scrub and hummock grasslands growing on sand plains (Department of Environment and Conservation, 2012). Parks and Wildlife advised the greater bilby has been recorded in the direct vicinity of the application area within the previous two years, including sightings of individuals and burrows within the application area (Parks and Wildlife, 2017). A targeted survey to identify burrows being utilised by the greater bilby identified a number of burrows within the application area, however there were no burrows identified that were likely to be utilised by the greater bilby (360 Environmental, 2017).

Parks and Wildlife advised that "given the vegetation communities present within the application area are likely to be representative of the surrounding region, with no rare or unique fauna habitats restricted to the application area, the proposal is unlikely to notably impact further fauna species" (Parks and Wildlife, 2017).

The application area is situated in relatively close proximity to Roebuck Bay which provides a significant habitat

for migratory birds. A field survey of a larger area adjacent to the application area, recorded six fauna species listed as Migratory and/or Marine under the *Environment Protection and Biodiversity Conservation Act 1999* including the whistling kite (*Haliastur sphenurus*), black-faced cuckoo-shrike (*Coracina novaehollandiae melanops*), pallid cuckoo (*Cuculus pallidus*), magpie goose (*Anseranas semipalmata*), rainbow bee-eater (*Merops ornatus*) and the strawnecked ibis (*Threskiornis spinicollis*) (GHD, 2010).

Although many of the abovementioned bird species have extended home ranges, the application area includes vegetation in excellent (Keighery, 1994) condition, and may provide habitat for these species. Given the extent of vegetation remaining within the local area (98.5 per cent pre-European vegetation remaining within the local area), the vegetation within the application area is not likely to provide significant habitat for these bird species.

While the application area contains habitat for fauna indigenous to Western Australia, given the narrow, linear shape and the small size of the application area in the context of the extent of surrounding vegetation, and that no burrows that are being utilised by the greater bilby were identified, the vegetation within the application area is not likely to comprise the whole or a part of, or be necessary for the maintenance of, significant habitat for fauna indigenous to Western Australia. Therefore, the proposed clearing is not likely to be at variance to this Principle.

Methodology

References:

360 Environmental (2017)

Department of Biodiversity, Conservation and Attractions (2007-)

Department of Environment and Conservation (2012)

GHD (2010) Keighery (1994)

Parks and Wildlife (2017)

GIS Datasets:

- SAC Bio Datasets - accessed July 2017

(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

Comments

Proposed clearing is not likely to be at variance to this Principle

One rare flora species has been recorded within the local area. The closest recorded rare flora occurrence within the local area is located approximately 7.5 kilometres south west of the application area. Although potential habitat for this species exists within the application area, no rare flora species were observed during a targeted flora survey within a larger survey area of similar habitat located adjacent to the application area (GHD, 2010).

Given the above, the vegetation within the application area is unlikely to include, or be necessary for the continued existence of, rare flora and the proposed clearing is not likely to be at variance to this Principle.

Methodology

References:

GHD (2010)

GIS Datasets:

- SAC Bio Datasets - accessed July 2017

(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

Comments

Proposed clearing is not likely to be at variance to this Principle

According to available databases, the closest threatened ecological community (TEC) within the local area is the Vulnerable Roebuck Bay Mudflats mapped approximately 4 kilometres south west of the application area. The vegetation within the application area is not consistent with this community, and given the distance to this TEC, the proposed clearing will not impact on this community.

There were no TEC's identified during a survey of a large area located adjacent to the application area (GHD, 2010).

Given the above, the vegetation within the application area is unlikely to comprise the whole, or part of, or be necessary for the maintenance of a TEC. The proposed clearing is not likely to be at variance to this Principle.

Methodology

References: GHD (2010)

GIS Datasets:

- SAC Bio Datasets - accessed July 2017

(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

Comments

Proposed clearing is not likely to be variance to this Principle

The national objectives and targets for biodiversity conservation in Australia has a target to prevent clearance of ecological communities with an extent below 30 percent of that present pre-1750, below which species loss appears to accelerate exponentially at an ecosystem level (Commonwealth of Australia, 2001).

The application area is located within the Dampierland Interim Biogeographic Regionalisation of Australia (IBRA) bioregion. This IBRA bioregion has approximately 99 per cent of its pre-European vegetation extent remaining (Government of Western Australia, 2016).

The application area is located within the Shire of Broome, within which there is approximately 99 per cent pre-European vegetation extent remaining (Government of Western Australia, 2016).

The local area retains approximately 98.5 per cent native vegetation cover (302,420 hectares). The proposed clearing of 4.71 hectares represents 0.0015 per cent of native vegetation within the local area.

Given the extent of native vegetation within the local area, and that the mapped vegetation type retains more than the national objective and target extents, it is unlikely that the native vegetation within the application area is significant as a remnant of native vegetation in an extensively cleared area. As such, the proposed clearing is not likely to be at variance to this Principle.

	Pre-European (ha)	Current Extent (ha)	Remaining (%)	Extent in Parks and Wildlife Managed Lands (%)
IBRA Bioregion* - Dampierland	4,372,944	4,353,381	99.55	0.69
Shire* - Shire of Broome	5,469,337	5,436,103	99.39	2.49
Beard vegetation association in	Bioregion*			
750	1,223,884	1,218,427	99.55	2.34

Methodology

References:

Commonwealth of Australia (2001) Government of Western Australia (2016)

GIS Datasets:

- Imagery
- Pre-European Vegetation
- Remnant vegetation

(f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

Comments

Proposed clearing is not likely to be at variance to this Principle

No wetlands or watercourses are mapped within the application area. The closest mapped watercourse or wetland is an area subject to inundation, located approximately five kilometres west from the application area.

No vegetation associated with watercourses or wetlands were observed throughout the application area (DER, 2017).

Given the distance to the closest watercourse or wetland, the vegetation within the application area is not considered to be growing in, or in association with, a wetland or watercourse and the proposed clearing is not likely to be at variance to this Principle.

Methodology

References:

DER (2017)

GIS Databases:

- Hydrography, linear

(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

Comments

Proposed clearing is not likely to be at variance to this Principle

The soils within the application area have been mapped by Northcote et al (1960-68) as

- Pindan country with gently undulating sand plains with small rocky sandstone residuals and no external drainage. Chief soils comprise red earthy sands, with associated hummocks of siliceous sands; and
- Sand plain with longitudinal sand dunes and some active drainage-ways: chief soils are red earthy sands, with dunes and hummocks of red sands.

Sand plains are highly susceptible to wind erosion, however given the narrow linear shape of the application

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area; it is not likely that the proposed clearing will result in wind erosion causing appreciable land degradation.

Sandy soils typically have high infiltration rates; therefore water erosion resulting from the proposed clearing is unlikely, particularly given linearity of the application area and distance to nearest hydrological features.

Given the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology References:

Northcote et al (1960-68)

GIS Datasets:

- Soils statewide

(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

Comments Proposed clearing is not likely to be at variance to this Principle

The closest conservation area to the application area is the Roebuck Bay Ramsar site located approximately eight kilometres south east.

Given the distance to this area, and linearity of the application area, the proposed clearing will not impact on this conservation area.

Given the above, the proposed clearing is not likely at variance to this Principle.

Methodology

GIS Datasets:

Parks and Wildlife tenure

(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

Comments Proposed clearing is not likely to be at variance to this Principle

As discussed in Principle (f), no wetlands or watercourses are mapped within the application area. Given the distance to the closest watercourse or wetland, the proposed clearing is not likely to cause deterioration in the quality of surface water.

Groundwater salinity mapped within the application area is less than 500 milligrams per litre (fresh). Given the low salinity levels within the application area and that the local area is highly vegetated, the clearing is not likely to cause deterioration in the quality of groundwater.

Given the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology

GIS Databases:

- Hydrology, linear
- Groundwater, salinity

(j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

Comments

Proposed clearing is not likely to be at variance to this Principle

Given the narrow linear shape of the application area and distance to hydrological features, the proposed clearing is not likely to cause or exacerbate the incidence or intensity of flooding. Neither of the soil types within the application area (discussed in Principle (g)) are susceptible to flooding following the clearing of native vegetation.

Given the above and considering that the application area is surrounded by extensive areas of vegetation, the proposed clearing is not likely to be at variance to this Principle.

Methodology

GIS Datasets:

- Hydrography, linear
- Soils, statewide

Planning instruments and other relevant matters.

Comments

The application was advertised on 1 June 2017 for a 21 day public submission period. No public submissions have been received in relation to this application.

On 31 May 2017, a DER Delegated Officer wrote to the Kimberley Land Council Aboriginal Corporation, the Rubibi Community Native Title Claimant and the Yawuru Native Title Holder Aboriginal Corporation RNTBC, providing notice as required by section 24KA of the *Native Title Act 1993*, and providing an opportunity to comment on the applications.

There is a Determination (WCD2006/001) over Lot 501 on Deposited Plan 403769, Roebuck, for which the Rubibi Community Native Title Claimant and the Yawuru Native Title Holders Aboriginal Corporation RNTBC were given the opportunity to comment. There is also a future action objection (WO2016/0461) over Lot 531 on

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Deposited Plan 73704, Roebuck, for which the Yawuru Native Title Holders Aboriginal Corporation RNTBC were given the opportunity to comment on behalf of its members. This application was lodged on the 13/07/16 and is active.

The Yawuru Native Title Holders Aboriginal Corporation RNTBC provided comment on the 7 July 2017. The Yawuru Native Title Holders Aboriginal Corporation RNTBC indicated that 'If the permit is to be granted, the Executive Director Environment should prohibit any clearing unless the following considerations are met

- A comprehensive environmental impact assessment is undertaken and a report provided to the Yawura RNTBC which includes an assessment of the cumulative developments in the area;
- (ii) The track file for the 'Targeted Bilby Survey Crab Creek Road, Broome' be provided to the Yawuru RNTBC for further analysis and comment; and
- (iii) Yawuru cultural monitors oversee all grind disturbing works associated with the project.'

The decision report for CPS 7596/1 addresses the Yawuru Native Title Holders Aboriginal Corporation RNTBC request for a comprehensive environmental impact assessment.

A track file the Targeted Bilby Survey – Crab Creek Road, Broome' is not considered necessary. This decision report acknowledges that the vegetation within the application area provides habitat for the greater bilby and this has been considered in the assessment against the clearing principles.

The applicant will be provided a copy of the Yawuru Native Title Holders Aboriginal Corporation RNTBC comments on the clearing application for their consideration regarding the requirement for Yawuru cultural monitors oversee all ground disturbing works associated with the project.

There is a Future Act Application (WF2004/0013) over Lot 501 on Deposited Plan 403769, Roebuck, for which the Kimberley Land Council Aboriginal Corporation were given the opportunity to comment. This application was lodged on the 28/06/2004 and has been finalised. No comment was received from the Kimberley Land Council Aboriginal Corporation.

No Aboriginal Sites of Significance have been recorded within the application area.

The application area is zoned Commercial/Business, Infrastructure/Public Uses and agricultural purposes under the town planning scheme.

Methodology

GIS Databases:

- Aboriginal Sites of Significance
- Town Planning Scheme Zones

4. References

360 Environmental (2017) Targeted Bilby Survey – Crab Creek Road, Broome. Report for Shire of Broome. Commonwealth of Australia (2001) National Objectives and Targets for Biodiversity Conservation 2001-2005, Canberra. Department of Biodiversity, Conservation and Attractions (2007-) NatureMap: Mapping Western Australia's Biodiversity. Department of Biodiversity, Conservation and Attractions. URL: http://naturemap.dpaw.wa.gov.au/. Accessed 04/07/2017

Department of Environment Conservation (2012) Fauna Profiles. Bilby (Macrotis lagotis).

Department of Environmental Regulation (2017) Site Inspection Report for Clearing Permit Application CPS 7441/1. Site inspection undertaken 22 February 2017. Department of Environment Regulation, Western Australia DER Ref: A1397956

Department of Parks and Wildlife (2017) Advice received regarding Clearing Permit Application CPS 7441/1. Department of Parks and Wildlife. Western Australia. DER Ref: A1397849

GHD (2010) Preliminary Environmental Impact Assessment and Biological Survey. Report for Broome Road Industrial Area. Government of Western Australia (2015) 2015 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of June 2015. WA Department of Parks and Wildlife, Perth.

Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Northcote, K. H. with Beckmann G G, Bettenay E., Churchward H. M., van Dijk D. C., Dimmock G. M., Hubble G. D., Isbell R. F., McArthur W. M., Murtha G. G., Nicolls K. D., Paton T. R., Thompson C. H., Webb A. A. and Wright M. J. (1960-68): 'Atlas of Australian Soils, Sheets 1 to 10, with explanatory data'. CSIRO and Melbourne University Press

Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.