

# CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

# PERMIT DETAILS

Area Permit Number: 4954/1

File Number:

2012/002037-1

Duration of Permit: From 12 April 2013 to 12 April 2015

#### ADVICE NOTE:

The funds referred to in condition 1 of this permit are intended for contributing towards the purchase of 100 hectares of Carnaby's cockatoo foraging habitat within the Shire of Gingin.

#### PERMIT HOLDER

Landalla Investments Pty Ltd

# LAND ON WHICH CLEARING IS TO BE DONE

Lot 403 on Deposited Plan 22032, Neergabby.

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 3.1 hectares of native vegetation within the area cross hatched yellow on attached Plan 4954/1.

# CONDITIONS

1. Monetary contributions to a fund maintained for the purpose of establishing or maintaining vegetation (offset)

Prior to undertaking any clearing authorised under this permit, the Permit Holder shall contribute documentary evidence to the CEO that funding of \$15,000 has been transferred to the Department of Environment and Conservation to purchase land for the purpose of establishing or maintaining vegetation.

2. The Permit Holder shall retain a 20 metre vegetated buffer within the area cross-hatched red on attached Plan 4954/1.

M Warnock

A/MANAGER

anneel

NATIVE VEGETATION CONSERVATION BRANCH

Officer delegated under Section 20 of the Environmental Protection Act 1986

21 March 2013

# Plan 4954/1









# **Clearing Permit Decision Report**

# 1. Application details

1.1. Permit application details

Permit application No.:

4954/1

Permit type:

Area Permit

1.2. Proponent details

Proponent's name:

Landalla Investments Pty Ltd

1.3. Property details

Property:

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LOT 403 ON PLAN 22032 (Lot No. 403 COWALLA NEERGABBY 6503)

Local Government Area:

Colloquial name:

Shire of Gingin

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

For the purpose of:

Mechanical Removal

Horticulture

1.5. Decision on application

Decision on Permit Application:

Decision Date:

21 March 2013

# 2. Site Information

# 2.1. Existing environment and information

# 2.1.1. Description of the native vegetation under application

Vegetation Description

Mapped Beard vegetation association 949: Low woodland; banksia (Shepherd et al, 2001) Clearing Description

The application is to clear 4.7 hectares of native vegetation for the purpose of extending the current vegetable farm.

Vegetation Condition

Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994) Comment

The condition of the vegetation under application was obtained from a recent site inspection undertaken by the Department and Environment and Conservation (DEC) on the 21 June 2012 (DEC, 2012).

Heddle vegetation complex karrakatta complex-north: Predominantly low open forest and low woodland of Banksia species E-Eucalyptus todtiana (Pricklybark), less consistently open forest of Eucalyptus gomphocephala (Tuart) - Eucalyptus todtiana (Pricklybark) - Banksia species (Heddle, et al, 1980).

The vegetation under application consists of Banksia woodland. containing Banksia attenuata, Banksia menziesii over Xanthorrhoea preissii and Hibbertia sp (DEC, 2012). There are scattered Eucalyptus todtiana trees within the application area. Weeds species were mainly contained to the perimeter of the application area on the edge of the fire breaks. The vegetation under application was in a very good (Keighery, 1994) condition (DEC, 2012).

# 3. Assessment of application against clearing principles

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

#### Comments

Proposal is at variance to this Principle

The application is to clear 4.7 hectares of native vegetation for the purpose of extending the current vegetable garden. The area under application is approximately 15 km east from the townsite of Guilderton.

A previous application (CPS 1484/1) for 5.2 hectares over the area was refused by the Department of Environment and Conservation on 24 April 2008. The Minister determined to uphold an appeal against the refusal and requested the application be granted subject to a 20 metre buffer being implemented to provide an ecological corridor of existing remnant vegetation to link other areas of remnant vegetation. A Clearing Permit

(CPS 1484/2) was granted for 3.1 hectares with a condition to retain a 20 metre buffer around the permitted area. Consistent with the Minister's appeal determination, the 20 metre buffer is to remain around the clearing area reducing the applied 4.7 hectares back to 3.1 hectares.

The vegetation under application is considered to be in very good (Keighery, 1994) condition, with the area consisting of open Banksia woodland (Banksia spp.), which is potential feeding habitat of the Carnaby's Cockatoo (Calyptorhynchus latirostris). The application area comprised of Banksia sp. over Xanthorrhoea preissii and Hibbertia sp. Eucalyptus todtiana trees were scattered throughout with some disturbance from weed encroachment in areas adjacent to the firebreak (DEC, 2012).

A flora survey (Regeneration Technology, 2008) undertaken in November and December 2007 identified 46 native flora species and five weed species. The vegetation was described as Banksia menziesii - Banksia attenuata low open woodland with mixed herbaceous understorey (Regeneration Technology, 2008). Of the indentified species none were recorded as priority or rare flora (Regeneration Technology, 2008).

Carnaby's cockatoo are known to exist in the area, with a roost site being approximately 6.8km south east of the application area. Given the proximity to the roost site, the vegetation under application is considered to be significant feeding habitat for Carnaby's cockatoo.

There is approximately 50 percent native vegetation remaining in the local area (10km radius). Of that, approximately 20 percent falls within DEC managed lands. The application area is adjacent to a parcel of remnant vegetation to the south and cleared land to the north. Given this, the application area is part of a vegetated linkage which facilitates the dispersal and gene flow of flora and fauna.

The vegetation under application is considered to contain a high level of biological diversity, and therefore the proposed clearing is at variance to this principle.

To offset the above impacts, DEC has approved the applicant's offset package which commits to contributing funds towards the purchase of 100 hectares of foraging habitat within the Shire of Gingin to offset the loss of 3.1 hectares within CPS 4954/1 and 6.65 hectares within CPS 4955/1 proposed to be cleared under these applications.

#### Methodology

#### References

- DEC (2012)
- Keighery (1994)
- Regeneration Technology (2008)

**GIS Databases** 

-SAC Bio Datasets (May 2012)

# (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

#### Proposal is at variance to this Principle

Three fauna species of conservation significant have been recorded in the local area (10 km radius) including Carnaby's cockatoo (Calyptorhynchus latirostris). Carnaby's cockatoo is listed as 'rare or likely to become extinct' under the Wildlife Conservation Act 1950 and 'endangered' under the Environment Protection and Biodiversity Conservation Act 1999.

The proposed clearing is unlikely to impact upon other conservation significant fauna known in the area given the large amount of surrounding vegetation remaining.

The area under application consists predominately of open Banksia woodland in very good (Keighery 1994) condition (DEC 2012) and comprises of flora species recognised as feeding habitat for Carnaby's cockatoo.

Surveys of Carnaby's cockatoo populations and their feeding and roosting habits show that the Northern Region of the Swan Coastal Plain appears to be an important area for Carnaby's (Shah 2006). Important native food for this species include Banksia attenuata, B. menziesii, B. grandis, B. ilicifolia, B. sessilis, B. prionotes, Corymbia calophylla and Eucalyptus marginata (Valentine and Stock 2008); some of which the application area contains.

We must take into consideration that the vegetation under application is significant as feeding habitat for Carnaby's cockatoos. Although the local area contains a high level of native vegetation (50 percent in the local area), not all this vegetation is suitable as feeding habitat.

The loss of off reserve native vegetation makes it difficult for Carnaby's cockatoos to move between conservation reserves, especially foraging hen birds which can only travel up to 12 kms with their young. A Carnaby's cockatoo roost site is mapped approximately 6.8km south east of the application area. One of the major threats to this species is accumulative clearing of feeding habitat on the Swan Coastal Plain (Cale, 2003). Therefore all feeding habitat within the Swan Coastal Plain is considered significant. Any clearing of cockatoo feeding habitat will contribute to the cumulative loss of habitat that is occurring on the Swan Coastal Plain.

The Department of Environment and Conservation previously assessed application CPS 1484/1, which covers the same native vegetation as this application, to be may be at variance to this principle. DEC has since obtained more detailed information in regard to the significance of Carnaby's feeding habitat and considers the proposed clearing to now be at variance to this principle.

To offset the above impacts, DEC has approved the applicant's offset package which commits to contributing funds towards the purchase of 100 hectares of foraging habitat within the Shire of Gingin to offset the loss of 3.1 hectares within CPS 4954/1 and 6.65 hectares within CPS 4955/1 proposed to be cleared under these applications.

## Methodology

References

- -DEC (2012)
- -Cale (2003)
- -Keighery (1994)
- Shah (2006)
- Valentine and Stock (2008)

#### GIS Databases:

- SAC Bio Datasets (May 2012) - roost sites

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

#### Comments

Proposal is not likely to be at variance to this Principle

There has been one declared rare flora (DRF) species mapped within 10km of the application area. Drakaea elastica has been recorded approximately 8.2km south of the application area. The recorded species has been mapped as occurring within different vegetation and soil types to the application area.

A flora survey of the application area was undertaken by Regeneration Technology in November and December 2008 did not identify and DRF as being within the application area. It is considered that the survey undertaken was conducted at the appropriate time of year, however it is noted that the flora and vegetation survey conducted by Regeneration Technology is not in accordance with the Environmental Protection Authority Guidance Statement No. 51.

Considering the above, it is not likely that DRF species are within the area under application. The application is not likely to be at variance to this principle.

#### Methodology

**GIS Databases** 

-SAC Bio datasets (May 2012)

# (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

Proposal is not likely to be at variance to this Principle

The closest Threatened Ecological Community (TEC) to the application area is Floristic Community Type SCP 26a - Melaleuca huegelii - M. acerosa shrublands on limestone ridges, approximately 7 km south west of the application area.

The application area consists of Banksia woodland predominantly containing Banksia attenuata on predominately grey sandy soil (DEC 2012) and does not contain the landforms affiliated with the TEC. Melaleuca sp were not observed during the site inspection (DEC 2012).

The application is not likely to be at variance to this principle.

## Methodology

References

-DEC (2012)

GIS Databases

-SAC Bio Datasets (May 2012)

# (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

Proposal is not likely to be at variance to this Principle

The vegetation under application is described as Beard vegetation associations 949, which has 57 percent of pre-European extent remaining in the bioregion (Government of Western Australia, 2011). The application area also comprises of Heddle vegetation complex, Karrakatta Complex-North, where there is 43 percent pre-European extent remaining in the bioregion (Heddle et al, 1980). 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 vegetation complexes mapped within the area under application are above the recommended minimum of 30 percent representation.

The application area is considered not to occur within an extensively cleared landscape, with approximately 50 per cent of pre-European vegetation remaining in the local area (10km). Considering this and that the mapped vegetation complexes being above the 30 percent threshold, the vegetation under application is not significant as a remnant in an extensively cleared landscape.

The application is not likely to be at variance to this principle

	Pre-European (ha)	Current Extent (ha)	Remaining (%)	Extent in DEC Managed Lands (%)
IBRA Bioregion Swan Coastal Plain	1,501,209	587,889	39	16
Shire Shire of Gingin	319,670	176,644	55	52
Beard Vegetation Association in Bioregion 949 209,983 121,248 57 51				
Heddle Vegetation Comp Karrakatta Complex North		19,296	43	25

#### Methodology

#### References

- -Commonwealth of Australia (2001)
- -Government of Western Australia (2011)
- -Heddle et al (1980)

**GIS Databases** 

- -Pre-European Vegetation
- -NLWRA, Current Extent of Native Vegetation
- -Interim Biogeographic Regionalisation of Australia

# (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

# Proposal is not likely to be at variance to this Principle

An unnamed Conservation Category Wetland (CCW) has been mapped as occurring approximately 1.0km east of the application area. Another unnamed CCW has been mapped and occurring approximately 1.1km south west of the application area. The mapped CCW are not joined by connective vegetation to the application.

A recent site inspection undertaken by DEC considered the vegetation in the applied area consisted of upland species and not associated with mapped CCW's.

Given the distance to the wetland, and that the applied area consists of upland species, the application is not likely to be at variance to this principle.

#### Methodology

**GIS Databses** 

- -Hydrography, Linear
- -Geomorphic Wetlands, Swan Costal plain

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

#### Comments

#### Proposal may be at variance to this Principle

A soil assessment of the application area indicates that the area proposed to be cleared is dominated by soil type Spearwood, Phase 5 - Map Unit 211Sp\_5 (Commissioner of Soil and Land Conservation, 2012). Pale brown to light grey sands to 90cm overlying brownish-yellow sand to weak clayey sand (Commissioner of Soil and Land Conservation, 2012).

Given the soils type present, the proposed clearing has a high risk of land degradation from wind erosion. This risk can be controlled if good management practices are put in place (Commissioner of Soil and Land Conservation, 2012).

The risk of water erosion from the proposed clearing causing land degradation is considered low, due to the soil type present in the application area (Commissioner of Soil and Land Conservation, 2012). The Commissioner of Soil and Land Conservation (2012) expressed that there were no signs of salinity on the property and that no significant changes in salinity to the local area is likely to occur from the proposed clearing

Given the high risk of land degradation from wind erosion the proposed clearing may be at variance to this principle.

#### Methodology

References

-Commissioner of Soil and Land Conservation (2012)

# (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

Proposal may be at variance to this Principle

The closest conservation area to the application area is the Gingin Stock Route Nature Reserve which is located approximately 3km south of the application area.

There is approximately 50 percent native vegetation remaining in the local area (10km radius). Of that, approximately 20 percent falls within DEC managed lands. The application area is adjacent to a parcel of remnant vegetation to the south and cleared land to the north. Given this, the application area is part of a vegetated linkage which facilitates the dispersal and gene flow of flora and fauna.

Although the local area contains a high level of native vegetation, not all this vegetation is suitable as feeding habitat. The loss of off reserve native vegetation makes it difficult for Carnaby's cockatoos to move between conservation reserves, especially foraging hen birds which can only travel up to 12 kms with their young. One of the major threats to this species is accumulative clearing of feeding habitat on the Swan Coastal Plain (Cale, 2003). Therefore all feeding habitat within the Swan Coastal Plain is considered significant. Any clearing of cockatoo feeding habitat will contribute to the cumulative loss of habitat that is occurring on the Swan Coastal Plain.

The Department of Environment and Conservation previously assessed application CPS 1484/1, which covers the same native vegetation as this application, as not likely to be at variance to this principle. DEC has since obtained more detailed information in regard to the significance of Carnaby's feeding habitat and linkages of potential foraging habitat off reserve.

Given the above the proposed clearing may be at variance to this principle.

#### Methodology

**GIS Databases** 

-DEC 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

Proposal is not likely to be at variance to this Principle

An unnamed Conservation Category Wetland (CCW) has been mapped as occurring approximately 1km east of the application area. Another unnamed CCW has been mapped and occurring approximately 1.1km south west of the application area. The application is within the Moore River groundwater catchment.

The Commissioner of Soil and Land Conservation (2012) expressed that there were no signs of salinity on the property and that no significant changes in salinity to the local area is likely to occur from the proposed clearing. Therefore, the clearing as proposed is not likely to be at variance to this principle.

## Methodology

References

Commissioner of Soil and Land Conservation (2012)

**GIS** Database

- -Hydrography, Linear
- -Geomorphic Wetlands, Swan Costal plain

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

#### Comments

Proposal is not at variance to this Principle

The proposed clearing of native vegetation is not expected to cause, or exacerbate, the incidence or intensity of flooding.

The application is not at variance to this principle.

## Methodology

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

# Comments

The land is zoned 'Rural' under the Shire of Gingin's Town Planning Scheme. Planning consent for the irrigated horticulture (market garden) over Lot 403 has been received for the proposal subject to conditions (Shire of Gingin, 2012).

The property under application falls within an area (Gingin Groundwater) which is proclaimed under the Rights in Water and Irrigation Act 1914 (RIWI Act). The applicant has obtained a water licence over Lot 403 for the irrigation of vegetables.

The area under application (5.2ha) was previously applied for in August 2006 (CPS 1884/1). The assessment of the application area indentified that the proposed clearing would have significant environmental issues, consequently the application was refused is January 2007. The applicant appealed the decision in April 2008. The Minister upheld the appeal. Clearing permit (CPS 1884/2) was granted in February 2010 with the condition to retain a 20 metre vegetated buffer along the roadside boundaries of the application area, reducing the total clearing to 3.1 hectares. The applicant did not undertake any clearing during the 2 year duration of the permit, consequently the permit expired without being exercised.

The Commissioner of Soil and Land Conservation (2012) has advised that there is some potential for nutrient export from the site, however, as there is a monitoring program in place on the property that guides fertilizer applications, significant land degradation is not expected.

#### Methodology

#### References

- Commissioner of Soil and Land Conservation (2012)
- Shire of Gingin (2012)

GIS Database

- Town Planning Scheme

#### 4. References

- Cale, B (2003) Carnaby's Black Cockatoo (Calyptorhynchus latirostris) Recovery Plan 2002- 2012. Department of Environment and Conservation. Wanneroo WA.
- Commissioner of Soil and Land Conservation (2012); Land Degradation Advice and Assessment Report for clearing permit application CPS 4955/1 received 27/5/2012; Department of Agriculture and Food Western Australia (TRIM Ref. DOCA498738).
- Commonwealth of Australia (2001) National Objectives and Targets for Biodiversity Conservation 2001-2005, Canberra.

  DEC (2012) Site Inspection Report for Clearing Permit Application CPS 4954/1, Lot 403 Neergabby. Site inspection undertaken 21/5/2012. Department of Environment and Conservation, Western Australia (TRIM Ref. DOCA521541).
- Government of Western Australia (2011); 2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). WA Department of Environment and Conservation, Perth.
- 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.
- Regeneration Technology (2008) Lot 406 Cowalla Road, Neergabby Flora and Vegetation Assessment, January 2008 (DEC Ref:A49214).
- Shah, B. (2006) Conservation of Carnaby's Black-Cockatoo on the Swan Coastal Plain, Western Australia. December 2006. Carnaby's Black-Cockatoo Recovery Project. Birds Australia, Western 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.
- Shire of Gingin (2012) Direct Interest Submission for clearing permit application CPS 4955/1. Received 6 December 2012, Shire of Gingin, Western Australia (Ref. A599046).

# 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)