

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.: CPS 5219/1
Permit type: Purpose

1.2. Proponent details

Proponent's name: Bardies Well Pty Ltd

1.3. Property details

Property: Mining Lease 47/226

Mining Lease 47/293
Local Government Area: Shire of Roebourne

Colloquial name:

1.4. Application

Clearing Area (ha) No. Trees Method of Clearing For the purpose of: 10.32 Mechanical Removal Mineral Production

1.5. Decision on application

Decision on Permit Application: Gr

Decision Date: 18 October 2012

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

Beard vegetation associations have been mapped for the whole of Western Australia. One Beard vegetation association has been mapped within the application area (GIS Database):

157: Hummock grasslands, grass steppe; hard spinifex Triodia wiseana.

A flora and vegetation survey of the application area was conducted by ENV (2012) in March 2012. This survey identified the following five vegetation communities within the application area (ENV, 2012):

TaTw - Triodia angusta and Triodia wiseana hummock grassland on orange-brown silty clay on low hills;

AaAbTe – Acacia ancistrocarpa, Acacia bivenosa and Acacia maitlandii shrubland over Triodia epactia hummock grassland on red-brown clay loam on low hills;

TwTe - Triodia wiseana and Triodia epactia hummock grassland on red-brown clay loam on low hills;

ChAaTe – Corymbia hamersleyana low open woodland over Acacia ancistrocarpa tall open scrub over Triodia epactia hummock grassland on red-brown silty clay in minor drainage lines; and

Fb - Ficus brachypoda scattered trees on quartz outcropping.

Clearing Description Bardies Well Pty Ltd has applied to clear up to 10.32 hectares of native vegetation for the purpose of

constructing a hardrock quarry and to re-establish creekflow and maintain drainage.

Clearing will be conducted by mechanical means.

Vegetation Condition Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate

(Keighery, 1994);

То

Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery,

1994).

Comment The application is located within the Pilbara region of Western Australia and is situated approximately 12

kilometres south south-east of Karratha.

3. Assessment of application against clearing principles

Comments

The proposal to clear up to 10.32 hectares of native vegetation for the purpose of mineral production is unlikely to have any significant environmental impacts. No Threatened Flora and no Threatened Ecological Communities have been recorded within the application area (ENV, 2012; GIS Database). Approximately 0.01 hectares of the application area occurs within the buffer zone of Priority 1 Ecological Community Roebourne Plains coastal grasslands with gilgai microrelief on deep cracking clays (GIS Database). A flora survey of the application area conducted by ENV (2012) did not identify any of this vegetation community within the application area. Additionally, the small area within the PEC buffer (0.01 hectares) renders the proposed clearing unlikely to impact upon the values of this PEC.

A flora survey of the application area conducted by ENV (2012) identified the potential for four Priority Flora species, *Acacia glaucocaesia* (P3), *Gymnanthera cunninghamii* (P3), *Vigna* sp. Rockpiles (R. Butcher *et al.* RB 1400) (P3) and *Rhynchosia bungarensis* (P4), to occur within the application area. Of these, only *Acacia glaucocaesia* is considered likely to occur within the application area, however it was not recorded during the flora survey (ENV, 2012). *Acacia glaucocaesia* has been recorded approximately 7 kilometres from the application area and given the small scale of the proposed clearing (10.32 hectares) it is considered unlikely to significantly impact this species.

One vegetation community associated with minor non-perennial watercourses has been identified within the application area (ENV, 2012). Only a small amount of this community, approximately 0.46 hectares, occurs within the application area. Therefore, the proposed clearing is considered unlikely to have a significant impact on this community.

Three weed species, *Aerva javanica, Cenchrus ciliaris* and *Malvastrum americanum*, have been recorded within the application area by ENV (2012). None of these species are listed as 'Declared Plant' species under the *Agriculture and Related Resources Protection Act 1976* by the Department of Agriculture and Food. Potential impacts to biodiversity as a result of the proposed clearing may be minimised by the implementation of a weed management condition.

The assessment of the application identified that the proposed clearing is at variance to Principle (f), is not likely to be at variance to Principles (a), (b), (c), (d), (g), (i), and (j), and is not at variance to Principles (e) and (h).

Methodology

ENV (2012)

GIS Database:

- DEC Tenure
- Hydrography, linear
- Public Drinking Water Source Areas (PDWSAs)
- Rangeland Land System Mapping
- Threatened Ecological Sites Buffered
- Threatened and Priority Flora

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

Comments

There is one Native Title Claim (WC99/14) over the area under application (GIS Database). This claim has been determined by the Federal Court. However, the mining tenure has been granted in accordance with the future act regime of the *Native Title Act 1993* and the nature of the act (i.e. the proposed clearing activity) has been provided for in that process, therefore the granting of a clearing permit is not a future act under the *Native Title Act 1993*.

There are no registered Aboriginal Sites of Significance within the application area (GIS Database). It is the proponent's responsibility to comply with the *Aboriginal Heritage Act 1972* and ensure that no Aboriginal Sites of Significance are damaged through the clearing process.

It is the proponent's responsibility to liaise with the Department of Environment and Conservation and the Department of Water, to determine whether a Works Approval, Water Licence, Bed and Banks Permit, or any other licences or approvals are required for the proposed works.

The clearing permit application was advertised on 17 September 2012 by the Department of Mines and Petroleum inviting submissions from the public. No submissions were received in relation to the proposed clearing.

Methodology

GIS Database:

- Aboriginal Sites of Significance
- Native Title Claims Determined by the Federal Court

4. References

ENV (2012) Flora and Vegetation Assessment, Bardies Well. Unpublished report dated May 2012.

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

5. Glossary

Acronyms:

BoM Bureau of Meteorology, Australian Government

CALM Department of Conservation and Land Management (now DEC), Western Australia

DAFWA Department of Agriculture and Food, Western Australia

DEC Department of Environment and Conservation, Western Australia

DEH Department of Environment and Heritage (federal based in Canberra) previously Environment Australia

DEP Department of Environment Protection (now DEC), Western Australia

DIA Department of Indigenous Affairs

DLI Department of Land Information, Western Australia

DMP Department of Mines and Petroleum, Western Australia

DoE Department of Environment (now DEC), Western Australia

DolR Department of Industry and Resources (now DMP), Western Australia

DOLA Department of Land Administration, Western Australia

DoW Department of Water

EP Act Environmental Protection Act 1986, Western Australia

EPBC Act Environment Protection and Biodiversity Conservation Act 1999 (Federal Act)

GIS Geographical Information System
ha Hectare (10,000 square metres)

IBRA Interim Biogeographic Regionalisation for Australia

IUCN International Union for the Conservation of Nature and Natural Resources – commonly known as the World

Conservation Union

RIWI Act Rights in Water and Irrigation Act 1914, Western Australia

s.17 Section 17 of the Environment Protection Act 1986, Western Australia

TEC Threatened Ecological Community

Definitions:

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{Atkins, K (2005). Declared rare and priority flora list for Western Australia, 22 February 2005. Department of Conservation and Land Management, Como, Western Australia}:-

P1 Priority One - Poorly Known taxa: taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat, e.g. road verges, urban areas, farmland, active mineral leases, etc., or the plants are under threat, e.g. from disease, grazing by feral animals, etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

Priority Two - Poorly Known taxa: taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

Priority Three - Poorly Known taxa: taxa which are known from several populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but are in need of further survey.

P4 Priority Four – Rare taxa: taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5–10 years.

Declared Rare Flora – Extant taxa (= Threatened Flora = Endangered + Vulnerable): taxa which have been adequately searched for, and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such, following approval by the Minister for the Environment, after recommendation by the State's Endangered Flora Consultative Committee.

Declared Rare Flora - Presumed Extinct taxa: taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which all known wild populations have been destroyed more recently, and have been gazetted as such, following approval by the Minister for the Environment, after recommendation by the State's Endangered Flora Consultative Committee.

{Wildlife Conservation (Specially Protected Fauna) Notice 2005} [Wildlife Conservation Act 1950] :-

Schedule 1 — Fauna that is rare or likely to become extinct: being fauna that is rare or likely to become extinct, are declared to be fauna that is need of special protection.

Schedule 2 Schedule 2 – Fauna that is presumed to be extinct: being fauna that is presumed to be extinct, are declared to be fauna that is need of special protection.

- Schedule 3 Birds protected under an international agreement: being birds that are subject to an agreement between the governments of Australia and Japan relating to the protection of migratory birds and birds in danger of extinction, are declared to be fauna that is need of special protection.
- Schedule 4 Other specially protected fauna: being fauna that is declared to be fauna that is in need of special protection, otherwise than for the reasons mentioned in Schedules 1, 2 or 3.

{CALM (2005). Priority Codes for Fauna. Department of Conservation and Land Management, Como, Western Australia}:-

- Priority One: Taxa with few, poorly known populations on threatened lands: Taxa which are known from few specimens or sight records from one or a few localities on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, active mineral leases. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.
- P2 Priority Two: Taxa with few, poorly known populations on conservation lands: Taxa which are known from few specimens or sight records from one or a few localities on lands not under immediate threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.
- Priority Three: Taxa with several, poorly known populations, some on conservation lands: Taxa which are known from few specimens or sight records from several localities, some of which are on lands not under immediate threat of habitat destruction or degradation. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.
- P4 Priority Four: Taxa in need of monitoring: Taxa which are considered to have been adequately surveyed, or for which sufficient knowledge is available, and which are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands.
- P5 Priority Five: Taxa in need of monitoring: Taxa which are not considered threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

Categories of threatened species (Environment Protection and Biodiversity Conservation Act 1999)

- **EX Extinct:** A native species for which there is no reasonable doubt that the last member of the species has died.
- **EX(W) Extinct in the wild:** A native species which:
 - (a) is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
 - (b) has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.
- **CR Critically Endangered:** A native species which is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.
- **Endangered:** A native species which:
 - (a) is not critically endangered; and
 - (b) is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.
- **VU Vulnerable:** A native species which:
 - (a) is not critically endangered or endangered; and
 - (b) is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.
- **Conservation Dependent:** A native species which is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.

Principles for clearing native vegetation:

- (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.
- (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.
- (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.
- (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.
- (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.
- (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.
- (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.
- (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the

(i) (j)	environmental values of any adjacent or nearby conservation area. 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. Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.	
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