

# **Clearing Permit Decision Report**

# 1. Application details

1.1. Permit application details

Permit application No.: 358/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Reed Resources Ltd

1.3. Property details

Property: M29/52

M29/233 L29/67 M29/321 M29/200

Local Government Area:

Colloquial name:

Shire Of Menzies

1.4. Application

Clearing Area (ha) No. Trees Method of Clearing For the purpose of:

4 Mechanical Removal Mining

### 2. Site Information

# 2.1. Existing environment and information

### 2.1.1. Description of the native vegetation under application

# Vegetation Description

Low woodland of mulga mixed with Casuarina cristata and Eucalyptus species (Shepherd et al 2001, Hopkins et al 2001).

#### **Clearing Description**

A total of 43 plant species were identified in the area under application including Acacia, Eremophila, Eucalytpus, Grevillea and Solanum species (Letter from Ecologia 2004 DoE Trim No. El892).

#### **Vegetation Condition**

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

#### Comment

Area under application is located on the historic Sand Queen Gold Mine tenements, therefore the area has been previously disturbed (Supporting documentation supplied by proponent DoE Trim No. IN19328)

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

The area under application is located on the historic Sand Queen Gold Mine tenements and has previously been disturbed. It is therefore not likely to be of higher biological diversity than the surrounding area.

Methodology Letter from Ecologia Environmental to the proponent (DoE Trim No. El892)

Information provided by the proponent (DoE Trim No. IN19328)

# (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 not likely to be at variance to this Principle

The following species may occur within the area under application, the Mallee fowl (Leipoa ocellata, Schedule 1), the Peregrine falcon (Falco peregrinus, Schedule 4) and the Hooded plover (Charadrius rubricollis, Priority 4). It is unlikely however that these species would be permanently found within the area under application as they have specific habitat requirements, such as abundant litter layer, cliffs, watercourses and salt lakes. Furthermore, the habitat for these species has historically been disturbed and there is >1.5 million ha of the same vegetation type remaining.

Methodology Letter from CALM to proponent re request for Threatened Fauna Information (DoE Trim No. IN19328).

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

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

A 2004 Flora Survey conducted by Ecologia Environment Consultants (2005) in of the area under application did not identify any of the 15 Priority species listed by CALM as occuring within the local area (10km radius). Furthermore, no Declared Rare Flora or Priority Species were identified.

#### Methodology

Ecologia Environment Consultants (2005) letter to the proponent (DoE Trim No. El892)

GIS Databases:

- Declared Rare and Priority Flora List - CALM 13/08/03

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

### Comments Proposal is not at variance to this Principle

The are no records of any Threatened Ecological Communities within the vicintiy (20km) of the area under application.

### Methodology

GIS Databases:

- Threatened Ecological Communities - CALM 15/07/03

# (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 at variance to this Principle

The area under application contains Beard Vegetation Association 20 of which there is 99.6% of the original extent remaining (Shepherd et al 2001, Hopkins et al 2001). The State Government is committed to the National Objectives Targets for Biodiversity Conservation which includes a target that prevents clearance of ecological communities with an extent below 30% of that present pre-European settlement (Department of Natural Resources and Environment 2002, EPA 2000). All vegetation representations within the area under application are above this 30% minimum therefore this Principle is not at variance.

	Pre-European		3	Conservation	% in reserves/CALM-
	area (ha)	extent (ha)	%*	Status**	managed land
IBRA Bioregion - Murchison	28,206,195	28,206,195	~100	Least concern	
Shire - Menzies	No information available				
Beard vegetation association	1				
- 20	1,558,296	1,552,012	99.6	Least concern	13.1

<sup>\*</sup> Shepherd et al. (2001)

### Methodology

Shepherd et al (2001)

Hopkins et al (2001)

Department of Natural Resources and Environment (2002)

EPA (2000)

# (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

The nearest watercourse to the area under application is the salt lake, Lake Goongarrie which is located approximately 2-2.5km east of the proposed clearing. It is unlikely that the proposed clearing would have a significant impact on this lake.

#### Methodology

GIS Databases:

- Geodata, Lakes - GA 28/06/02

# (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

The area under application is on elevated terrain with shallow calcareous loamy soils. As such the proposed clearing may increase the risk of wind erosion. It is unlikely that the proposed clearing would increase the risk of water erosion or water logging as the area receives little rainfall (<300mm). The risk from eutrophication is also minimal as there are no agricultural practices near the area under application. Therefore the risk of appreciable on-site or off-site degradation is considered minimal.

### Methodology

GIS Databases:

<sup>\*\*</sup> Department of Natural Resources and Environment (2002)

- Soils, Statewide DA 11/99
- Rainfall, Mean Annual BOM 30/09/01

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

In proximity to the area under application is an old pastoral station that is now being managed for conservation purposes by the Department of Conservation and Land Management (CALM). It is unlikely that the proposed clearing would have a significant impact on this conservation reserve.

#### Methodology GIS Databases:

- CALM Managed Lands and Waters CALM 01/08/04
- (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

It is unlikely that the proposed clearing would have a significant impact on the quality of groundwater and surface water as the area under application is located in a salt lake basin. As such, the groundwater is already saline (approximately 35,000mg/L) and Lake Goongarrie which is located 2km to the east is a salt lake. The proposed clearing may increase surface water run-off into Lake Goongarrie but this is unlikely to have a significant effect as the area receives low rainfall.

### Methodology GIS Databases:

- Groundwater Salinity, Statewide 22/02/00
- Geodata, Lakes GA 28/06/02

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

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

The area under application is in an elevated position and receives little rainfall (<300mm). It is therefore unlikely that the proposed clearing would have an impact on peak flood height or duration.

#### Methodology GIS Databases:

- Topographic contours, Statewide DOLA 12/09/02
- Rainfall, Mean Annual BOM 30/09/01

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

Comments

The Shire of Menzies has no objections to the proposed clearing.

Methodology Submission from Shire of Menzies (DoE Trim No. ND739)

### 4. Assessor's recommendations

Purpose Method Applied area (ha)/ trees

Mining Mechanical 14 Grant The assessable criteria have been addressed and the clearing as proposed may be at variance with Principle g relating to land degradation. Given the low annual rainfall of the area under application and the intended land-use, the proposed clearing is unlikely to cause appreciable land degradation. Therefore, the assessing officer recommends that this permit should be granted.

# 5. References

Department of Natural Resources and Environment (2002) Biodiversity Action Planning. Action planning for native biodiversity at multiple scales; catchment bioregional, landscape, local. Department of Natural Resources and Environment, Victoria.

EPA (2000) Environmental protection of native vegetation in Western Australia. Clearing of native vegetation, with particular reference to the agricultural area. Position Statement No. 2. December 2000. Environmental Protection Authority.

Hopkins, A.J.M., Beeston, G.R. and Harvey J.M. (2001) A database on the vegetation of Western Australia. Stage 1. CALMScience after J. S. Beard, late 1960's to early 1980's Vegetation Survey of Western Australia, UWA Press.

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

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.