

# **Clearing Permit Decision Report**

# 1. Application details

1.1. Permit application details

Permit application No.: 3893/2

Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Robe River Mining Co Pty Ltd

1.3. Property details

Property: Iron Ore (Robe River) Agreement Act 1964, Mineral Lease 248SA (AML70/248)

Local Government Area: Shire of Ashburton
Colloquial name: West Angelas Project

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant

Decision Date: 18 July 2013

# 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 and are useful to look at vegetation in a regional context. The following Beard vegetation associations have been mapped within the application area (GIS Database):

18: Low woodland; mulga (Acacia aneura); and

82: Hummock grasslands, low tree steppe; snappy gum over Triodia wiseana (GIS Database).

The application area was surveyed by Rio Tinto staff on 18-20 May 2010 (Rio Tinto, 2010). The following vegetation types were identified within the application area:

# **Stony Slope Vegetation**

SS1: Eucalyptus gamophylla low open forest over Acacia bivenosa, Acacia pruinocarpa open shrubland over Eremophila forrestii, Keraudrenia velutina low open shrubland over Triodia pungens, Triodia basedowii open hummock grassland;

SS2: Eucalyptus gamophylla, Eucalyptus leucophloia, Acacia aneura low open forest over Acacia bivenosa open shrubland over Eremophila forrestii low open shrubland over Triodia basedowii, Triodia pungens and Triodia melvillei hummock grassland over Cymbopogon ambiguus very open tussock grassland;

SS3: Eucalyptus leucophloia, Corymbia hamersleyana low open forest over Acacia maitlandii open shrubland over Triodia sp. Mt Ella, Triodia wiseana hummock grassland;

SS4: Eucalyptus leucophloia, Eucalyptus gamophylla low open woodland over Acacia bivenosa shrubland over Acacia effusa, Acacia tenuissima low open shrubland over Triodia basedowii, Triodia wiseana hummock grassland;

SS5: Eucalyptus leucophloia low open woodland over Acacia bivenosa open shrubland over Ptilotus rotundifolius low open shrubland over Triodia pungens hummock grassland;

SS6: Eucalyptus gamophylla, Eucalyptus socialis, Acacia catenulata low open forest over Rulingia luteiflora open shrubland over Keraudrenia velutina, Sida cardiophylla, Sida arsiniata low shrubland over Triodia pungens open hummock grassland;

SS7: Eucalyptus leucophloia, Corymbia hamersleyana low open forest over Acacia adoxa, Mirbelia viminalis low open heath over Triodia wiseana hummock grassland;

SS8: Eucalyptus leucophloia, Corymbia ferriticola, Hakea lorea low open forest over Acacia pyrifolia, Acacia bivenosa open shrubland over Triodia wiseana, Triodia sp. Mt Ella hummock grassland;

SS9: Acacia aneura, Acacia pruinocarpa, Acacia ayersiana, Rulingia luteiflora open heath over Acacia bivenosa, Senna luerssenii, Eremophila forrestii low open shrubland over Triodia basedowii open hummock grassland over Cymbopogon ambiguus very open tussock grassland;

#### **Vegetation from Rocky Crests**

RC1: Eucalyptus leucophloia low open forest over Acacia monticola open shrubland over Triodia sp. Mt Ella, Triodia wiseana hummock grassland over Eriachne mucronata very open tussock grassland;

RC2: Eucalyptus leucophloia, Acacia aneura low open forest over Ptilotus rotundifolius low open shrubland over Triodia wiseana, Triodia sp. Mt Ella hummock grassland over Cymbopogon ambiguus scattered tussock grass;

#### Flowline Vegetation

FL1: Corymbia hamersleyana, Grevillea wickhamii, Eucalyptus xerothermica low open forest over Acacia pyrifolia, Gossypium robinsonii, Senna glutinosa shrubland over Tephrosia rosea low shrubland over Triodia pungens very open hummock grassland over Themeda triandra, Eriachne tenuiculmis, Cenchrus ciliaris tussock grassland (Rio Tinto, 2010).

#### **Clearing Description**

Robe River Mining Co Pty Ltd (Robe) is proposing to clear up to 3.3 hectares of native vegetation for evaluation drilling at West Angelas (Robe, 2010). The evaluation drilling program will include; Maintaining and establishing tracks; Clearing of drill lines and access tracks (2.9 kilometres x 5 metres); Creation of 34 drill pads (20 metres x 26 metres); Creation of 34 sumps (6 metres x 3 metres); and Drilling of 34 holes (Robe, 2010).

Vegetation will be cleared using a raised blade technique where practicable or scrub rake in level terrain. Where previously cleared tracks require maintenance, the track may be graded using blade down technique (Robe, 2010).

#### **Vegetation Condition**

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

#### Comment

The application area is located in the Pilbara region of Western Australia and is situated approximately 95 kilometres west-north-west of Newman (GIS Database).

Clearing permit CPS 3893/1 was granted by the Department of Mines and Petroleum on 30 September 2010. On 14 June 2013, Robe River Mining Co Pty Ltd applied to amend CPS 3893/1 for the purpose increasing the area permitted to clear from 3.3 hectares to 5 hectares. The permit boundary remains the same.

### 3. Assessment of application against Clearing Principles

#### Comments

Robe River Mining Co Pty Ltd has applied to increase the area permitted to clear from 3.3 hectares to 5 hectares. The permit boundary will remain at 14.8 hectares.

A flora survey of the application area conducted by Rio Tinto (2010) identified 12 vegetation communities occurring within the extended permit boundary. None of these vegetation communities are considered to be of higher diversity than those assessed within clearing permit decision report CPS 3893/1 and the vegetation types are not considered to be a remnant locally or regionally. No vegetation communities recorded are considered to be Threatened or Priority Ecological Communities and no Threatened or Priority Flora were recorded within the additional area (Rio Tinto, 2010). Therefore, the proposed clearing is not likely to be at variance to Principles (a), (c) and (d) and is not at variance to Principle (e).

The fauna habitats present within the application area are consistent with those described in clearing permit decision report CPS 3893/1. Therefore, the proposed clearing is not likely to be at variance to Principle (b). Current environmental information has been reviewed and the assessment of clearing principles (f), (g), (h), (i) and (j) is consistent with the assessment in clearing permit decision report CPS 3893/1.

#### Methodology

Rio Tinto (2010)

GIS Database:

- DEC Tenure
- Evaporation Isopleths
- Groundwater Salinity
- Hydrography, linear
- IBRA WA (Regions Sub Regions)
- Pre-European Vegetation
- Public Drinking Water Source Areas
- Rangeland Land System Mapping
- Rainfall, Mean Annual
- Threatened and Priority Flora
- Threatened Ecological Sites Buffered

# Planning instrument, Native Title, RIWI Act Licence, EP Act Licence, Works Approval, Previous EPA decision or other matter.

#### Comments

There are two Native Title Claims (WC97/043 and WC05/003) over the area under application. These claims have been registered with the National Native Title Tribunal on behalf of the claimant group. 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 Regulation (formerly 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 amendment was advertised on 24 June 2013 by the Department of Mines and Petroleum inviting submissions from the public. No submissions were received in relation to the application.

#### Methodology

GIS Database:

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

# 4. References

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

Rio Tinto (2010) Flora and Vegetation Survey for Proposed Exploration Drilling at West Angelas - Native Vegetation Clearing Permit Supporting Report. Unpublished Report dated July 2010. Rio Tinto, Western Australia.

Robe (2010) Application for a Clearing Permit (Purpose Permit) Evaluation Drilling Program and Access Tracks - ML248SA. Supporting documentation prepared by Robe River Mining Co Pty Ltd. August 2010.

#### 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:**

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

**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.

- P2 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.
- P3 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.
- 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.
- R 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.
- X 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}:-

- P1 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.
- 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.
- P3 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.

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