



Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.: 2819/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: FerrAus Limited (Australian Manganese Proprietary Limited)

1.3. Property details

Property: Miscellaneous Licence 52/103
General Purpose Lease 52/281
Mining Lease 52/1034
Local Government Area: Shire of Meekatharra
Colloquial name: Robertson Range Iron Ore Project

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 18 July 2013

2. Background

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. Three Beard vegetation association are located within the application area (GIS Database):

29: Sparse low woodland; mulga, discontinuous in scattered groups;

111: Hummock grasslands, shrub steppe; *Eucalyptus gamophylla* over hard spinifex;

216: Low Woodland; mulga (with spinifex) on rises (GIS Database).

A vegetation survey was conducted over the application area by Ecologia Environment (Ecologia) in April 2007. As a result of this survey, 8 vegetation types were identified within the survey area (Ecologia, 2007). These are:

1a: Scattered outcropping of *Hakea* spp. and other low trees over moderately dense mixed low shrubs and mixed hummock grasses on a red-orange sandy plain. Over-storey species include *Hakea lorea* spp. *lorea*, *H. chordophylla*, *Corymbia deserticola* spp. *deserticola*, *Eucalyptus gamophylla*, over shrub layer including *Acacia dictyophleba*, *Dicrastylis georgei*, *Scaevola parvifolia* spp. *pilbarae* over *Triodia basedowii*, *Triodia schinzii* hummock grasses;

1b: Scattered outcropping *Hakea* spp. and other low trees, over moderately dense mixed hummock grasses, with sparse shrubs. Over-storey species include *Hakea lorea* spp. *lorea*, *Eucalyptus gamophylla*, *Hakea chordophylla*, *Corymbia hamersleyana* over a shrub layer of *Acacia dictyophleba*, *Dicrastylis georgei*, *Scaevola parvifolia* spp. *pilbarae*, *Petalostylis cassioides*, *Leptosema chambersii*, *Santalum lanceolatum* over a hummock grass layer of *Triodia basedowii* and *Triodia schinzii*;

1c: Open *Eucalyptus gamophylla* woodland. *Eucalyptus gamophylla* over shrubs *Eremophila forrestii* spp. *forrestii*, *Acacia ligulata*, *Scaevola spinescens* over low shrubs *Leptosema chambersii*, *Gompholobium polyzygum*, over sparse grass layer *Paraneurachne muelleri*, *Cymbopogon oblectus* over *Triodia basedowii*, *Triodia schinzii*, *Triodia* spp. *Shovellana Hill* hummock grasses;

1d: Moderately dense high *Acacia ancistrocarpa* shrubland. Outcropping *Hakea lorea* spp. *lorea* over moderately dense *A. ancistrocarpa* high shrubs over open to moderately dense mixed low shrubs *Petalostylis cassioides*, *A. dictyophleba*, *Melhanian oblongifolia*, *Halgania solanacea* var. *Mt Doreen*, with moderately dense to dense *Triodia schinzii*, *Triodia basedowii* hummock grass and scattered mixed soft grasses;

1e: Open *Acacia trudgeniana* mixed medium shrubland. Open *A. trudgeniana* tall shrubs over open *Sida cardiophylla*/ *Acacia dictyophleba* mixed medium shrubs over moderately dense *Eragrostis eriopoda*, *Aristida holathera* var. *holathera* mixed soft grass with open *Triodia schinzii*, *Triodia basedowii* mixed hummock grasses;

2. Open mixed low shrubland with open mixed soft grasses. Sparse *Acacia pruinocarpa*, *Codonocarpus cotinifolius* mixed tall shrubs over open to moderately dense *Sida arenicola* medium shrubs over moderately dense

Scaevola spinescens, *Halgania solanacea* var. *Mt Doreen* mixed low shrubs with open to moderately dense mixed soft grass species;

3a. Open to moderately dense *Acacia aneura* var. *aneura* woodland. Open to moderately dense *Acacia aneura* var. *aneura* low woodland over sparse to moderately dense *Eremophila latrobei* spp. *filiformis*, *E. exilifolia* medium shrubs over scattered to moderately dense *Ptilotus obovatus* low shrubs with scattered *Solanum lasiophyllum* low shrubs mostly with open *Triodia* sp. *Shovelanna Hill* hummock grass and sparse mixed soft grasses dominated by *Eragrostis eriopoda*;

3b: Sparse *Acacia* spp. medium to high shrubland. Scattered outcropping *Acacia* spp. high shrubs over *A. maitlandii* and scattered to sparse *Eremophila latrobei* spp. *filiformis*, *Calytrix carinata* medium shrubs over sparse mixed low shrubs, dominated by *Gompholobium polyzygum* over mixed open to moderately dense soft grasses and open to moderately dense *Triodia* sp. *Shovelanna Hill* hummock grass.

Clearing Description FerrAus have applied to clear up to 323.37 hectares for the purpose of establishing an open pit mine, associated infrastructure including waste dumps, ROM pads, Tailings Storage Facility (TSF), camp and roads (Ecologia, 2007). Clearing will be by mechanical means.

Vegetation Condition Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery, 1994).

to

Pristine: No obvious signs of disturbance (Keighery, 1994).

Comment Clearing permit CPS 2819/1 was granted by the Department of Mines and Petroleum on 21 May 2009. On 11 June 2013, FerrAus Limited applied to amend CPS 2819/1 for the purpose extending the duration of the permit from 31 July 2014 to 31 July 2019, and to change the annual permit reporting date to 31 December.

3. Assessment of application against Clearing Principles

Comments

FerrAus Limited has applied to amend CPS 2819/1 to extend the duration of the permit from 31 July 2014 to 31 July 2019, and to change the annual permit reporting date to 31 December.

As the amendment is only for administrative purposes, the environmental impacts will not change and the assessment of the clearing principles is consistent with the assessment in clearing permit decision report CPS 2819/1.

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

Comments

There is one Native Title Claim (WC99/044) over the area under application (GIS Database). This claim has 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*.

The application area is located within the Jigalong Aboriginal Reserve. The Jigalong Aboriginal Community and the Nyiyaparli People were consulted prior to exploration activities at Robertson Range (Ecologia, 2007).

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.

Methodology Ecologia (2007)
GIS Database:
- Aboriginal Sites of Significance
- Native Title claims - Determined by the Federal Court

4. References

- Ecologia (2007) FerrAus Limited, Robertson Range Biological Survey, September 2007. Unpublished report prepared for FerrAus Limited by Ecologia Environment.
- 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
DoIR	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* }:-

- 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.
- 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.
- 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.
- 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** **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** **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** **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.
- 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.
- 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 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 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.

