

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.: 7518/1

Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Redstone Resources Limited

1.3. Property details

Property: Exploration Licence 69/2450

Local Government Area: Shire of Ngaanyatjarraku

Colloquial name: Tollu Project

1.4. Application

Clearing Area (ha) No. Trees Method of Clearing For the purpose of: 9.96 Mechanical Removal Mineral Exploration

1.5. Decision on application

Decision on Permit Application: Grant

Decision Date: 15 June 2017

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):

384: Shrublands; mallee & acacia thicket on coastal dunes (central west)

Clearing Description Tollu Project.

Redstone Resources Limited proposes to clear up to 9.96 hectares of native vegetation within a total boundary of approximately 237.64 hectares, for the purpose of mineral exploration. The project is located approximately 981 kilometres north-northeast of Kalgoorlie close to the Western Australian-South Australian border, in the Shire of

Ngaanyatjarraku.

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

1994)

To:

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery,

1994).

Comment Vegetation condition was determine from information provided by the proponent and a flora desktop survey

(EnviroWorks Consulting, 2012)

3. Assessment of application against clearing principles

Comments

Redstone Resources Limited has applied to clear up to 9.96 hectares of native vegetation for the purpose of mineral epxloration. The current exploration programme under this permit consists of 249 drill holes.

The application area is located within the Great Victorian Desert Interim Biogeographic Regionalisation for Australia (IBRA) bioregion (GIS Database). It consists of arid active sand-ridge desert with extensive dune fields of deep Quaternary aeolian sands overlying Permian strata of the Gunbarrel Basin (EnviroWorks Consulting, 2012).

A flora and fauna desktop assessment was conducted by EnviroWorks Consulting Pty Ltd over the application area in October 2012 (EnviroWorks Consulting, 2012). One Priority flora species *Eucalptus sparsa* (P3) was identified within the application area. The applicant has committed to avoiding priority flora species within the application area and therefore the proposed clearing is unlikely to have an impact on this priority flora species. No Threatened flora was identified within the application area (EnviroWorks Consulting, 2012; GIS Database). No Priority or Threatened Ecological Communities are known to occur within the application area (EnviroWorks, 2012; GIS Database)

No significant fauna habitats were identiifed within the application area during the October 2012 survey and it is considered unlikely that any conservation significant fauna species recorded in database searches rely exclusively on fauna habitats present in the application area (EnviroWorks Consulting, 2012). The application area is considered to be largely continous grassland (EnviroWorks Consulting, 2012).

Malleefowl (*Leipoa ocellata*) have been previously recorded near the application area. Potential impacts to Malleefowl mounds as a result of the proposed clearing may be minimised by the implementation of a Malleefowl management condition.

According to available databases the application area is not located within a Public Drinking Water Source Area (GIS Database). There are no permanent water bodies or watercourses within the application area (EnviroWorks Consulting, 2012; GIS Database). There are several minor non-perennial drainage lines that intersect the application area (GIS Database). The surface flows of these drainage lines are likely to be dry most of the year and it is considered unlikely that the proposed clearing will cause or exacerbate the incidence of flooding or localised waterlogging (EnvironWorks Consulting, 2012; GIS Database).

According to available databases, groundwater salinity within the application area is between 3,000 and 15,000 milligrams/Litre Total Dissolved Solids (TDS) (GIS Database). This is considered to be relatively saline. Given the size and nature of the proposed clearing it is unlikley that the clearing will cause groundwater or surface water quality to alter significantly.

The extent of clearing proposed is limited to a relatively small area (9.96 hectares) therefore the likelihood of significant land degradation impacts resulting from the proposed clearing is considered low.

The application area is located within the Basin Warburton catchment area (GIS Database). Given the size of the area to be cleared (9.96 hectares) in relation to the size of the catchment area (17,203,335 hectares) (GIS Database), the proposed clearing is not likely to increase the potential of flooding on a local or catchment scale.

Weeds have the potential to occur within the application area (DPaW, 2017; EnviroWorks, 2012). Potential impacts to biodiversity as a result of the proposed clearing may be minimised by the implementation of a weed management condition.

The application area has been assessed against the clearing principles, planning instruments and other matters in accordance with s.510 of the *Environmental Protection Act 1986*, and the proposed clearing is not likely to be at variance to Principles (a), (b), (c), (d), (g), (h), (i), and (j) and is not at variance to Principles (e) and (f).

Methodology

CALM (2002) DPaW (2017)

Government of Western Australia (2016)

EnviroWorks Consulting (2012)

GIS Database:

- DPaW Tenure
- Groundwater Salnity, Statewide
- Hydrography, linear
- Hydrographic Catchments Catchments
- IBRA Australia
- Pre-European Vegetation
- Threatened and Priority Ecological Communities Boundaries
- Threatened and Priority Ecological Communities Buffers
- Threatened and Priority Flora

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

Comments:

There are no native title claims over the area under application (DAA 2017). 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 that intersect with the application area (DAA, 2017). 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, the Department of Water, and the Department of Parks and Wildlife, 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: DAA (2017)

4. References

- CALM (2002) A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions. Department of Conservation and Land Management, Western Australia
- DAA (2017) Aboriginal Heritage Inquiry System, Department of Aboriginal Affairs. < http://maps.dia.wa.gov.au/AHIS2/ (Accessed 30 May 2017).
- DPaW (2017) Nature Map, Department of Parks and Wildlife. https://naturemap.dpaw.wa.gov.au/
- Government of Western Australia (2016). 2016 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of October 2016. WA Department of Parks and Wildlife, Perth.Keighery, B.J. (1994)
- EnviroWorks Consulting (2012) Desktop Flora and Fauna Study of Tenement E 69/2450. Report prepared for Redstone Resources Limited by EnviroWorks Consulting, October 2012.

5. Glossary

Acronyms:

BoM Bureau of Meteorology, Australian Government

DAA Department of Aboriginal Affairs, Western Australia

DAFWA Department of Agriculture and Food, Western Australia

DEC Department of Environment and Conservation, Western Australia (now DPaW and DER)

DEE Department of the Environment and Energy, Australian Government

DER Department of Environment Regulation, Western Australia
DMP Department of Mines and Petroleum, Western Australia

DRF Declared Rare Flora

DoE Department of the Environment, Australian Government (now DEE)

DoW Department of Water, Western Australia

DPaW Department of Parks and Wildlife, Western Australia

DSEWPaC Department of Sustainability, Environment, Water, Population and Communities (now DEE)

EPA Environmental Protection Authority, Western Australia
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

PEC Priority Ecological Community, Western Australia

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

TEC Threatened Ecological Community

Definitions:

{DPaW (2017) Conservation Codes for Western Australian Flora and Fauna. Department of Parks and Wildlife, Western Australia}:-

T Threatened species:

Published as Specially Protected under the *Wildlife Conservation Act 1950*, listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EN Endangered species

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

VU Vulnerable species

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EX Presumed extinct species

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

IA Migratory birds protected under an international agreement

Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

CD Conservation dependent fauna

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

OS Other specially protected fauna

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

P Priority species

Species which are poorly known; or

Species that are adequately known, are rare but not threatened, and require regular monitoring. Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

P1 Priority One - Poorly-known species:

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

P2 Priority Two - Poorly-known species:

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

P3 Priority Three - Poorly-known species:

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

P4 Priority Four - Rare, Near Threatened and other species in need of monitoring:

- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

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.