



Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.: 6412/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: MacPhersons Resources Limited

1.3. Property details

Property: Mining Lease 25/355
Mining Lease 26/29
Mining Lease 26/277
Mining Lease 26/318
Mining Lease 26/490
Miscellaneous Licence 26/240
Miscellaneous Licence 26/266
Local Government Area: City of Kalgoorlie-Boulder
Colloquial name: Boorara Prospect

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
100		Mechanical Removal	Mineral production and associated infrastructure

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 30 January 2020

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description The clearing permit application area has been broadly mapped as Beard vegetation association: 468: Medium woodland, salmon gum and goldfields blackbutt (GIS Database).

A flora and vegetation survey conducted by Mattiske Consulting Pty Ltd (Mattiske, 2014) over the application area identified the following 17 vegetation types:

E1: Very Open Woodland of *Eucalyptus ravida*, *Eucalyptus stricklandii*, *Eucalyptus transcontinentalis* and *Eucalyptus salmonophloia* over mixed *Eremophila* species over *Atriplex nummularia* and mixed shrubs on flats with red/brown clay soils and scattered quartz pebbles.

E3: Open Woodland of *Eucalyptus stricklandii* with occasional *Eucalyptus ravida* and *Eucalyptus salmonophloia* over *Casuarina pauper* over *Eremophila interstans* subsp. *virgata* and *Exocarpos aphyllus* over *Atriplex nummularia*, *Atriplex vesicaria* and mixed shrubs on flats with rocky red/brown clay soils.

E4: Open Woodland of *Eucalyptus salmonophloia* with occasional *Eucalyptus transcontinentalis* and *Eucalyptus celastroides* subsp. *celastroides* over *Atriplex nummularia*, *Exocarpos aphyllus* and *Eremophila interstans* and mixed shrubs on flats with red/brown clay soils.

E5: Open Low Woodland of *Eucalyptus stricklandii*, *Casuarina pauper* and occasional *Eucalyptus griffithsii* over *Santalum spicatum* and *Acacia burkittii* over *Dodonaea lobulata*, mixed *Eremophila* species and other mixed shrubs over occasional *Triodia scariosa* on flats with red/brown clay soils with scattered ironstone and quartz pebbles.

E6: Open Woodland of *Eucalyptus salmonophloia*, *Eucalyptus celastroides*, *Eucalyptus ?yilgarnensis*, *Eucalyptus ravida*, and *Eucalyptus stricklandii* over *Eremophila interstans*, mixed *Atriplex* species, *Exocarpos aphyllus*, and mixed shrubs and *Chenopods* on flats with red/brown clay soils with scattered ironstone pebbles.

E7: Open Woodland of *Eucalyptus griffithsii* and *Eucalyptus lesouefii* over *Acacia burkittii*, mixed *Eremophila* species, *Dodonaea lobulata* and *Atriplex nummularia* over mixed shrubs with red/brown clay soils.

E8: Open Woodland of *Eucalyptus ravida*, *Eucalyptus stricklandii*, *Eucalyptus transcontinentalis* and *Eucalyptus celastroides* subsp. *celastroides* over *Atriplex nummularia* and mixed shrubs on flats with red/brown clay soils.

- E9:** Open Woodland of *Eucalyptus griffithsii* over mixed Acacia and Eremophila species over mixed shrubs on flats with red/brown clay soils.
- E10:** Thicket of *Eucalyptus griffithsii* over Acacia and Eremophila species and mixed shrubs on red/brown clay soils with calcrete pebbles.
- E11:** Low woodland of *Eucalyptus ravidia*, *Melaleuca sheathiana* and occasional *Eucalyptus lesouefii* over Eremophila and mixed shrubs on flats with red/brown clay soils and scattered ironstone pebbles.
- E12:** Closed woodland of *Eucalyptus lesouefii* over mixed Eremophila species and *Atriplex nummularia* over mixed shrubs on lower-slopes with red/brown soils.
- E13:** Closed woodland of *Eucalyptus ravidia* over mixed Eremophila species and mixed shrubs on flats with red/brown clay soils.
- E14:** Open woodland of *Eucalyptus ?lesouefii*, *Eucalyptus griffithsii* and *Casuarina pauper* over *Melaleuca sheathiana*, *Santalum spicatum* and mixed Eremophila species over *Atriplex nummularia* and mixed shrubs on flats with red/brown clay soils.
- A2:** Open Shrubland of *Acacia burkittii* and *Acacia tetragonophylla* with occasional *Santalum spicatum* and *Casuarina pauper* over sparse mixed shrubs on upper slopes with gravel soils and numerous lateritic outcrops.
- A3:** Open Shrubland of *Acacia burkittii* over Chenopod and mixed shrubs on flats with red/brown clay soils.
- A4:** Open Shrubland of *Acacia ?sibirica* and *Acacia tetragonophylla* over mixed Eremophila species over mixed shrubs on flats with red/brown clay soils.
- C1:** Open Chenopod Shrubland of *Atriplex nummularia*, *Atriplex vesicaria* and *Senna artemisioides* subsp. *filifolia* and *Eremophila scoparia* over *Scaevola spinescens* and mixed Maireana species on seasonally inundated drainage lines with red/brown clay soils.

Clearing Description	Boorara Prospect. MacPhersons Resources Ltd proposes to clear up to 100 hectares of native vegetation within a total boundary of approximately 411 hectares, for the purpose of mineral production and associated infrastructure. The project is located approximately 17 kilometres south-east of Kalgoorlie, in the City of Kalgoorlie-Boulder.
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	Vegetation condition was determined by Matiske (2014) using the Keighery scale. Clearing permit CPS 6412 /1 was granted by the Department of Mines and Petroleum (now the Department of Mines, Industry Regulation and Safety) on 5 February 2015 and was valid from 28 February 2015 to 28 February 2020. The permit authorised the clearing of up to 100 hectares of native vegetation within a boundary of approximately 411 hectares, for the purpose of mineral production and associated activities. On 4 December 2019, the Permit Holder applied to amend CPS 6412/1 to extend the permit duration by five years.

3. Assessment of application against Clearing Principles

Comments

The Permit Holder has applied to amend clearing permit CPS 6412/1 to extend the permit duration by five years, as the project is ongoing and clearing has not been completed. The size of the area approved to clear (100 hectares), and the permit boundaries remain unchanged. The amendment is unlikely to result in any significant change to the environmental impacts of the proposed clearing (GIS Database).

The amendment application has been assessed against the clearing principles, planning instruments and other matters in accordance with s.51O of the *Environmental Protection Act 1986*. Environmental information has been reviewed, and the assessment of the proposed clearing against the clearing principles remains consistent with the assessment contained in decision report CPS 6412/1.

Methodology

- GIS Database:
- DPaW Tenure
 - Hydrography, Lakes
 - Hydrography, Linear
 - IBRA Australia
 - Landsystem Rangelands
 - Pre-European Vegetation
 - Public Drinking Water Source Areas
 - Threatened and Priority Ecological Communities boundaries

- Threatened and Priority Ecological Communities buffers
- Threatened and Priority Flora
- Threatened Fauna

Planning Instrument, Native Title, previous EPA decision or other matter.

Comments

There are two Native Title Claims (WC2017/001 and WC2017/007) over the application area (DPLH, 2020). These claims have been filed at the federal court on behalf of the claimant groups. 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 is one registered Aboriginal Site of Significance within the application area (DPLH, 2020). 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 Water and Environmental Regulation and the Department of Biodiversity, Conservation and Attractions, 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 application was advertised on 13 January 2020 by the Department of Mines, Industry Regulation and Safety inviting submissions from the public. No submissions were received in relation to this application.

Methodology DPLH (2020)

4. References

- DPLH (2020) Aboriginal Heritage Inquiry System. Department of Planning, Lands and Heritage.
<http://maps.daa.wa.gov.au/AHIS/> (Accessed 21 January 2020).
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Mattiske (2014) Flora and Vegetation Values on the Boorara Project Area Including a Desktop Fauna Assessment. Report prepared by Mattiske Consulting Pty Ltd for MacPhersons Resources Ltd, Western Australia.

5. Glossary

Acronyms:

BoM	Bureau of Meteorology, Australian Government
DAA	Department of Aboriginal Affairs, Western Australia (now DPLH)
DAFWA	Department of Agriculture and Food, Western Australia (now DPIRD)
DBCA	Department of Biodiversity, Conservation and Attractions, Western Australia
DEC	Department of Environment and Conservation, Western Australia (now DBCA and DWER)
DoEE	Department of the Environment and Energy, Australian Government
DER	Department of Environment Regulation, Western Australia (now DWER)
DMIRS	Department of Mines, Industry Regulation and Safety, Western Australia
DMP	Department of Mines and Petroleum, Western Australia (now DMIRS)
DPIRD	Department of Primary Industries and Regional Development, Western Australia
DPLH	Department of Planning, Lands and Heritage, Western Australia
DRF	Declared Rare Flora
DoE	Department of the Environment, Australian Government (now DoEE)
DoW	Department of Water, Western Australia (now DWER)
DPaW	Department of Parks and Wildlife, Western Australia (now DBCA)
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities (now DoEE)
DWER	Department of Water and Environmental Regulation, Western Australia
EPA	Environmental Protection Authority, Western Australia
EP Act	<i>Environmental Protection Act 1986</i> , Western Australia
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (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	<i>Rights in Water and Irrigation Act 1914</i> , Western Australia
TEC	Threatened Ecological Community

Definitions:

{DBC (2019) Conservation Codes for Western Australian Flora and Fauna. Department of Biodiversity, Conservation and Attractions, Western Australia}:-

T Threatened species:

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

Threatened fauna is that subset of 'Specially Protected Fauna' listed under schedules 1 to 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for Threatened Fauna.

Threatened flora is that subset of 'Rare Flora' listed under schedules 1 to 3 of the *Wildlife Conservation (Rare Flora) Notice 2018* for Threatened Flora.

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 in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines. Published under schedule 1 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for critically endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for critically endangered flora.

EN Endangered species

Threatened species considered to be "*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines. Published under schedule 2 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for endangered flora.

VU Vulnerable species

Threatened species considered to be "*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for vulnerable fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for vulnerable flora.

Extinct Species:

EX Extinct species

Species where "*there is no reasonable doubt that the last member of the species has died*", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

Published as presumed extinct under schedule 4 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for extinct fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for extinct flora.

EW Extinct in the wild species

Species that "*is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no threatened fauna or threatened flora species listed as extinct in the wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.

Specially protected species:

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Includes 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 fauna subject to the *Convention on the Conservation of Migratory Species of Wild Animals* (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

Published as migratory birds protected under an international agreement under schedule 5 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

CD Species of special conservation interest (conservation dependent fauna)

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Published as conservation dependent fauna under schedule 6 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

OS Other specially protected species

Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Published as other specially protected fauna under schedule 7 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

P Priority species:

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened fauna or flora.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species 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.