

Clearing Permit Decision Report

1. Application details

1.1. Permit application details			
Permit application No.:	5979/1		
Permit type:	Purpose Permit		
1.2. Proponent details			
Proponent's name:	Dampier Salt Limited		
1.3. Property details			
Property:	Evaporites (Lake McLeod) Agreement Act 1967, Mineral Lease 245SA (AML 70/245) Miscellaneous Licence 9/10		
Local Government Area:	Shire of Carnarvon		
Colloquial name:	Cape Cuvier Haul Road		
1.4. Application			
Clearing Area (ha) No. 1 5	Image: Trees Method of Clearing For the purpose of: Mechanical Removal Haul Road		
1.5. Decision on application			
Decision on Permit Application:	Grant		
Decision Date:	6 March 2014		

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application Vegetation Description Clearing 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 association has been mapped within the application area (GIS Database):

329: Shrublands; dwarf waterwood (*Acacia coriacea*) shrubs on recent dunes.

A level 1 flora and vegetation survey of the existing haul road was conducted by Outback Ecology on 13 October 2011. This survey did not cover the whole application area, however, the rest of the application area is likely to contain similar vegetation to that already identified. The flora and vegetation survey identified the following vegetation association (Outback Ecology, 2011):

- Acacia tetragonophylla, Acacia coriacea, Scaevola spinescens, Pimelea microcephala var. microcephala Scattered Shrubs over Frankenia pauciflora Scattered Low Shrubs over Very Open to Closed Grassland of *Cenchrus ciliaris*. Cape Cuvier Haul Road. Dampier Salt Ltd proposes to clear up to 5 hectares within a boundary of approximately 22.3 hectares for the purpose of realigning a haul road. The project is located approximately 75 kilometres northwest of Carnarvon within the Shire of Carnarvon.

Vegetation Condition

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery, 1994);

to

to Completely Degraded: No longer intact; completely/almost completely without

native species

(Keighery, 1994).

Comment

The vegetation condition was assessed by a botanist from Outback Ecology.

Seasonal conditions were excellent with rainfall for the previous year well above average (Outback Ecology, 2011). This resulted in a large number of annual species being recorded (Outback Ecology, 2011).

Part of the application area covers clearing permit CPS 4738/1 which was also issued for the purpose of realigning this haul road. However, CPS 4738/1 has now expired and no clearing was undertaken under that permit.

3. Assessment of application against clearing principles

Comments

The vegetation within the application area is in a 'degraded' to 'completely degraded' condition due to existing roads, high levels of weed invasion and impacts from grazing (Outback Ecology, 2011). The vegetation association within the application area is not considered to be a Threatened or Priority Ecological Community (PEC) (Outback Ecology, 2011; GIS Database). The application area is within the buffer area of the 'Lake MacLeod Invertebrate Assemblages' PEC, however, as this PEC is an aquatic community, the proposed clearing will not impact on this PEC.

A total of 45 flora taxa from 20 families and 39 genera were recorded during the flora survey (Outback Ecology, 2011). The floristic diversity relative to the size of the survey area could be considered reasonably high, but this is largely due to the abundance of annual species recorded (Outback Ecology, 2011). None of the species

recorded were Threatened or Priority Flora species (Outback Ecology, 2011).

There were four species of weed recorded within the survey area, the most common of these weeds was Buffel Grass (*Cenchrus ciliaris* which provided 5 to 80% of the vegetation cover (Outback Ecology, 2011). The presence and abundance of these weed species lowers the biodiversity value of the application area. Potential impacts from weed species may be minimised by the implementation of a weed management condition.

No fauna surveys have been conducted over the application area. Given the existing disturbances and degraded nature of the application area, it is not likely to contain significant habitat for native fauna species.

The application area is comprised of the Cardabia and Coast land systems with over 95% of the application being the Coast land system (GIS Database). Several units of both land system are highly susceptible to wind erosion when degraded (Payne et al., 1987). The vegetation within the application area is most similar to is the Coast land system unit 4 which is described as 'blow-out dunes which are mostly unvegetated with *Frankenia* spp., *Acacia coriacaea* and *Acacia xanthina* as pioneer stabilisers of deflated areas' (Outback Ecology, 2011; Payne et al., 1987). The proposed clearing of 5 hectares is not likely to lead to appreciable land degradation.

There are no watercourses or wetlands within the application area and the vegetation is not growing in association with any watercourses (Outback Ecology, 2011; GIS Database). The proposed clearing is not likely to cause a deterioration in the quality of surface or groundwater or increase the incidence or intensity of flooding (GIS Database).

The application 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 Outback Ecology (2011) Payne et al. (1987) GIS Database: - Evaporation Isopleths

- Groundwater Salinity
- Hydrography, linear
- Macleod 1.4m Orthomosaic
- Public Drinking Water Source Areas (PDWSAs)
- Rangeland Land System Mapping
- Rainfall, Mean Annual
- Threatened and Priority Flora
- Threatened Ecological Sites Buffered

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

Comments

There is one Native Title claim (WC1997/028) over the area under application (GIS Database). This claim has been registered with the 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 located within the clearing permit 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 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 clearing permit application was advertised on 10 February 2014 by the Department of Mines and Petroleum inviting submissions from the public. There was one submission received stating no objections to the proposed clearing.

Methodology GIS Database:

- Aboriginal Sites of Significance

- Native Title Claims - Registered with the NNTT

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.

Outback Ecology (2011) Cape Cuvier Haul Road Realignment Level 1 Vegetation and Flora Assessment. Unpublished report for Dampier Salt Ltd, dated December 2011.

Payne, A.L., Curry, P.J. and Spencer, G.F. (1987) An Inventory and Condition Survey of Rangelands in the Carnarvon Basin, Western Australia. Department of Agriculture, Western Australia.

5. Glossary

Acronyms:

BoM CALM DAFWA DEC DEH DEP DIA DLI DMP DoE DoIR DOLA DOUA DoW	Bureau of Meteorology, Australian Government Department of Conservation and Land Management (now DEC), Western Australia Department of Agriculture and Food, Western Australia Department of Environment and Conservation, Western Australia Department of Environment and Heritage (federal based in Canberra) previously Environment Australia Department of Environment Protection (now DEC), Western Australia Department of Indigenous Affairs Department of Land Information, Western Australia Department of Mines and Petroleum, Western Australia Department of Environment (now DEC), Western Australia Department of Environment (now DEC), Western Australia Department of Industry and Resources (now DMP), Western Australia Department of Land Administration, Western Australia Department of Land Administration, Western Australia
EP Act EPBC Act GIS ha IBRA IUCN RIWI Act s.17	Environmental Protection Act 1986, Western Australia Environment Protection and Biodiversity Conservation Act 1999 (Federal Act) Geographical Information System Hectare (10,000 square metres) Interim Biogeographic Regionalisation for Australia International Union for the Conservation of Nature and Natural Resources – commonly known as the World Conservation Union Rights in Water and Irrigation Act 1914, Western Australia 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 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.		
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		
CD	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		
(e)	maintenance of a threatened ecological community. Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that		
(f)	has been extensively cleared. 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		
(i)	environmental values of any adjacent or nearby conservation area. 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.		