

Windfarm Mundabiddi Survey 7/9/21

██████████ (Botanist)

██ (Technical officers)

A targeted survey for Threatened and Priority Flora was completed with a search of the proposed realignment of the Munda Biddi from the windfarm north to Elleker-Grassmere Rd on the 07/09/21. The search area was a 50m wide alignment along the proposed route.

We found no Threatened or Priority Flora and no TECs/PECS during the survey. The survey area included vegetation in excellent condition with limited existing disturbance. Clearing should be minimised as much as possible and mitigation measures implemented to avoid indirect impacts (such as erosion and the spread of weeds).

It is recommended to avoid individuals of *Banksia praemorsa* where possible and any large Eucalyptus and Melaleuca species. It is also recommended that impacts on the wetland habitat are avoided (including any potential indirect impacts from drainage alteration etc).

We also recommend weed management measures during construction to avoid spreading weeds, particularly the existing infestations of Arum Lily, Sydney Golden Wattle and Bridal Creeper (mainly at the very southern end).

Please find attached shapefiles with existing weed locations.



Adenanthos x
cunninghamii

Thomasia
quercifolia



Family	Genus	Species	Status
Aizoaceae	Carpobrotus	sp.	
Anarthriaceae	Anarthria	prolifera	
Anarthriaceae	Anarthria	scabra	
Apiaceae	Platysace	compressa	
Apocynaceae	Vinca	major	*
Araceae	Zantedeschia	aethiopica	*
Araliaceae	Hydrocotyle	diantha	
Asparagaceae	Asparagus	asparagoides	*
Asteraceae	Craspedia	variabilis	
Asteraceae	Hypochaeris	sp.	
Asteraceae	Olearia	axillaris	
Asteraceae	Pithocarpa	cordata	
Brassicaceae	Heliophila	pusilla	*
Casuarinaceae	Allocasuarina	fraseriana	
Casuarinaceae	Allocasuarina	humilis	
Casuarinaceae	Allocasuarina	lehmanniana	
Colchicaceae	Burchardia	congesta	
Cyperaceae	Ammothryon	grandiflorum	
Cyperaceae	Chaetospora	curvifolius	
Cyperaceae	Cyathochaeta	avenacea	
Cyperaceae	Evandra	aristata	
Cyperaceae	Gahnia	decomposita	
Cyperaceae	Lepidosperma	effusum	
Cyperaceae	Lepidosperma	sp.	
Cyperaceae	Lepidosperma	squamatum	
Dasypogonaceae	Dasypogon	bromeliifolius	
Dennstaedtiaceae	Pteridium	esculentum	
Dilleniaceae	Hibbertia	cuneiformis	
Dilleniaceae	Hibbertia	cunninghamii	
Dilleniaceae	Hibbertia	grossulariifolia	
Dilleniaceae	Hibbertia	racemosa	
Dilleniaceae	Hibbertia	furfuracea	
Droseraceae	Drosera	erythrogyne	
Droseraceae	Drosera	erythrorhiza	
Droseraceae	Drosera	hamiltonii	
Droseraceae	Drosera	huegelii	
Elaeocarpaceae	Tremandra	stelligera	
Ericaceae	Leucopogon	rubricaulis	
Ericaceae	Leucopogon	obovatus subsp. Obovatus	
Ericaceae	Leucopogon	parviflorus	
Ericaceae	Lysinema	ciliatum	
Ericaceae	Styphelia	pendula	
Ericaceae	Styphelia	sp.	
Euphorbiaceae	Amperea	ericoides	
Euphorbiaceae	Amperea	protensa	
Fabaceae	Acacia	alata	
Fabaceae	Acacia	cochlearis	
Fabaceae	Acacia	hastulata	
Fabaceae	Acacia	littorea	
Fabaceae	Acacia	longifolia	*
Fabaceae	Acacia	melanoxyton	*
Fabaceae	Aotus	intermedia	
Fabaceae	Bossiaea	linophylla	
Fabaceae	Callistachys	lanceolata	
Fabaceae	Chorizema	glycinifolium	
Fabaceae	Chorizema	ilicifolium	

Fabaceae	Gompholobium	capitatum	
Fabaceae	Gompholobium	confertum	
Fabaceae	Hardenbergia	comptoniana	
Fabaceae	Jacksonia	horrida	
Fabaceae	Kennedia	coccinea	
Fabaceae	Pultenaea	reticulata	
Geraniaceae	Geranium	sp.	
Geraniaceae	Pelargonium	capitatum	*
Goodeniaceae	Goodenia	trinervis	
Gyrostemonaceae	Gyrostemon	sheathii	
Haemodoraceae	Anigozanthos	flavidus	
Haemodoraceae	Conostylis	aculeata	
Hemerocallidaceae	Chamaescilla	corymbosa	
Iridaceae	Patersonia	occidentalis	
Lauraceae	Cassytha	sp.	
Loganiaceae	Logania	vaginalis	
Loganiaceae	Orianthera	serpyllifolia subsp. Serpyllifolia	
Loganiaceae	Phyllangium	paradoxum	
Lyginiaceae	Lyginia	imberbis	
Menyanthaceae	Ornduffia	parnassifolia	
Myrtaceae	Agonis	flexuosa	
Myrtaceae	Corymbia	calophylla	
Myrtaceae	Eucalyptus	cornuta	
Myrtaceae	Eucalyptus	marginata	
Myrtaceae	Eucalyptus	megacarpa	
Myrtaceae	Eucalyptus	staeri	
Myrtaceae	Hypocalymma	cordifolium	
Myrtaceae	Kunzea	ericifolia	
Myrtaceae	Melaleuca	preissiana	
Myrtaceae	Melaleuca	thymoides	
Myrtaceae	Taxandria	juniperina	
Myrtaceae	Taxandria	parviceps	
Olacaceae	Olax	phyllanthi	
Orchidaceae	Caladenia	cairnsiana	
Orchidaceae	Caladenia	latifolia	
Orchidaceae	Cryptostylis	ovata	
Orchidaceae	Disa	bracteata	*
Orchidaceae	Diuris	longifolia	
Orchidaceae	Drakaea	glyptodon	
Orchidaceae	Drakaea	thynniphila	
Orchidaceae	Lyperanthus	serratus	
Orchidaceae	Pterostylis	recurva	
Orchidaceae	Pterostylis	sp.	
Orchidaceae	Pterostylis	vittata	
Orchidaceae	Pyrorchis	nigricans	
Orchidaceae	Thelymitra	?crinita	
Oxalidaceae	Oxalis	sp.	*
Phyllanthaceae	Phyllanthus	calycinus	
Pittosporaceae	Billardiera	fusiformis	
Pittosporaceae	Pittosporum	undulatum	*
Poaceae	Anthoxanthum	odoratum	*
Poaceae	Briza	maxima	*
Portulacaceae	Calandrinia	sp.	
Proteaceae	Adenanthos	cuneatus	
Proteaceae	Banksia	attenuata	
Proteaceae	Banksia	dallanneyi	
Proteaceae	Banksia	grandis	

Proteaceae	Banksia	praemorsa
Proteaceae	Banksia	quercifolia
Proteaceae	Banksia	sessilis
Proteaceae	Hakea	oleifolia
Proteaceae	Hakea	prostrata
Proteaceae	Hakea	ruscifolia
Proteaceae	Hakea	varia
Proteaceae	Isopogon	attenuatus
Proteaceae	Isopogon	formosus subsp. Formosus
Ranunculaceae	Clematis	pubescens
Restionaceae	Desmocladius	flexuosus
Restionaceae	Empodisma	gracillimum
Restionaceae	Hypolaena	exsulca
Restionaceae	Leptocarpus	scariosus
Rhamnaceae	Spyridium	globulosum
Rosaceae	Rubus	sp.
Rubiaceae	Opercularia	hispidula
Rubiaceae	Opercularia	vaginata
Rutaceae	Boronia	crenulata
Santalaceae	Leptomeria	scrobiculata
Santalaceae	Leptomeria	squarrulosa
Stylidiaceae	Stylidium	?amoenum
Stylidiaceae	Stylidium	diversifolium
Thymeleaceae	Pimelea	ferruginea

Munda Bididi Trail Realignment, City of Albany Sandpatch Reserve

Desktop Review, Reconnaissance and Alignment Alteration

████████████████████, DBCA South Coast Region

Summary

A realignment of the Munda Bididi trail through sections of City of Albany Reserve was planned for 2022 (Figure 1). The purpose of the realignment was to increase visitor amenity and safety by reducing the length of the existing trail that uses the Lower Denmark Road, a heavily trafficked road without adequate safety margins for cyclists.

As part of an assessment of the environmental values along the proposed realignment, a desktop review of the fauna values occurring or potentially occurring within the potential impact footprint (a 25 m wide corridor either side of a linear polygon) was conducted.

This yielded 15 fauna taxa considered likely to occur within the realignment footprint, or with the potential to occur. Due to the nature of the proposed impacts, the taxon considered to be most likely impacted was *Zephyrarchaea mainae*, an assassin spider listed as Vulnerable under the Biodiversity Conservation Act 2016 (Wildlife Conservation (Specially Protected Fauna) Notice 2018, schedule 3).

As a result, the authors walked the proposed alignment and determined that it did intersect potential habitat for *Zephyrarchaea mainae*. The results of this reconnaissance survey and the desktop review are presented here.

The principal outcome of these studies was that the proposed Munda Bididi trail alignment was altered at a local scale to minimise potential impacts to *Zephyrarchaea mainae* microhabitat patches.

Desktop Review

The proposed Munda Bididi realignment was buffered by 20 km to create a polygon for searching conservation significant fauna databases.

The EPBC Protected Matters Search Tool and DBCA threatened fauna databases were queried, yielding a list of 110 threatened species that could occur in the study area. Of these, 95 were deemed to be unlikely to occur or not occurring (20 were aquatic, 12 occurred historically, with no recent records, 26 were marine species, 36 had no suitable habitat within the development corridor (e.g. shorebird species for which habitat was absent), and one, Grey Falcon, was considered to be far outside of its normal range and therefore very unlikely to occur (Appendix 1).

This left a group of 15 threatened fauna species considered likely or with potential to occur (Table 1). Of these species, most were deemed not to be at risk from the proposed works, but a reconnaissance survey of the study area corridor was planned to determine whether habitat suitable for Main's assassin spider (*Zephyrarchaea mainae*, listed as Vulnerable under the Biodiversity Conservation Act 2016 (Wildlife Conservation (Specially Protected Fauna) Notice 2018, schedule 3)), was present. This species was considered the most likely threatened taxon to be present, and potentially impacted.

Reconnaissance Survey and Alignment Alteration

On the 14th October 2021, [REDACTED] (DBCA Regional Ecologist) and [REDACTED] (DBCA Conservation Officer) walked the proposed alignment and noted that habitat for *Zephyrarchaea mainae* was present in a number of small patches where the alignment traversed thicker vegetation with a suspended litter midstorey, such as at minor drainages.

As a result, the proposed trail alignment was rerouted to avoid most of the areas of potential *Z. mainae* habitat (Figure 1).

The alignment alteration was completed by [REDACTED] and [REDACTED] (DBCA Project Manager) on 26 November 2021. Areas of potential *Z. mainae* habitat as well as any areas of thicker vegetation were avoided to produce an updated route, shown in red on Figure 1. Localised areas of greatest potential for harbouring other potentially affected species, the Western Australian Pill Millipede (*Cynotelopus notabilis*, listed as Endangered under the Biodiversity Conservation Act 2016 (Wildlife Conservation (Specially Protected Fauna) Notice 2018, schedule 2)) and the Short-nosed Snake (*Elapognathus minor*, DBCA Priority 2), were also avoided.

Minimising the clearing of denser vegetation patches by altering the alignment also benefitted those species that may have resided in them, but were expected to move away in response to disturbance during clearing, such as Quenda (*Isoodon fusciventer*, DBCA Priority 4).

References

EPBC Protected Matters Search Tool (accessed 14 December 2021),
<https://www.awe.gov.au/environment/epbc/protected-matters-search-tool>

DBCA Threatened Fauna Database (extract) (accessed 14 December 2021)

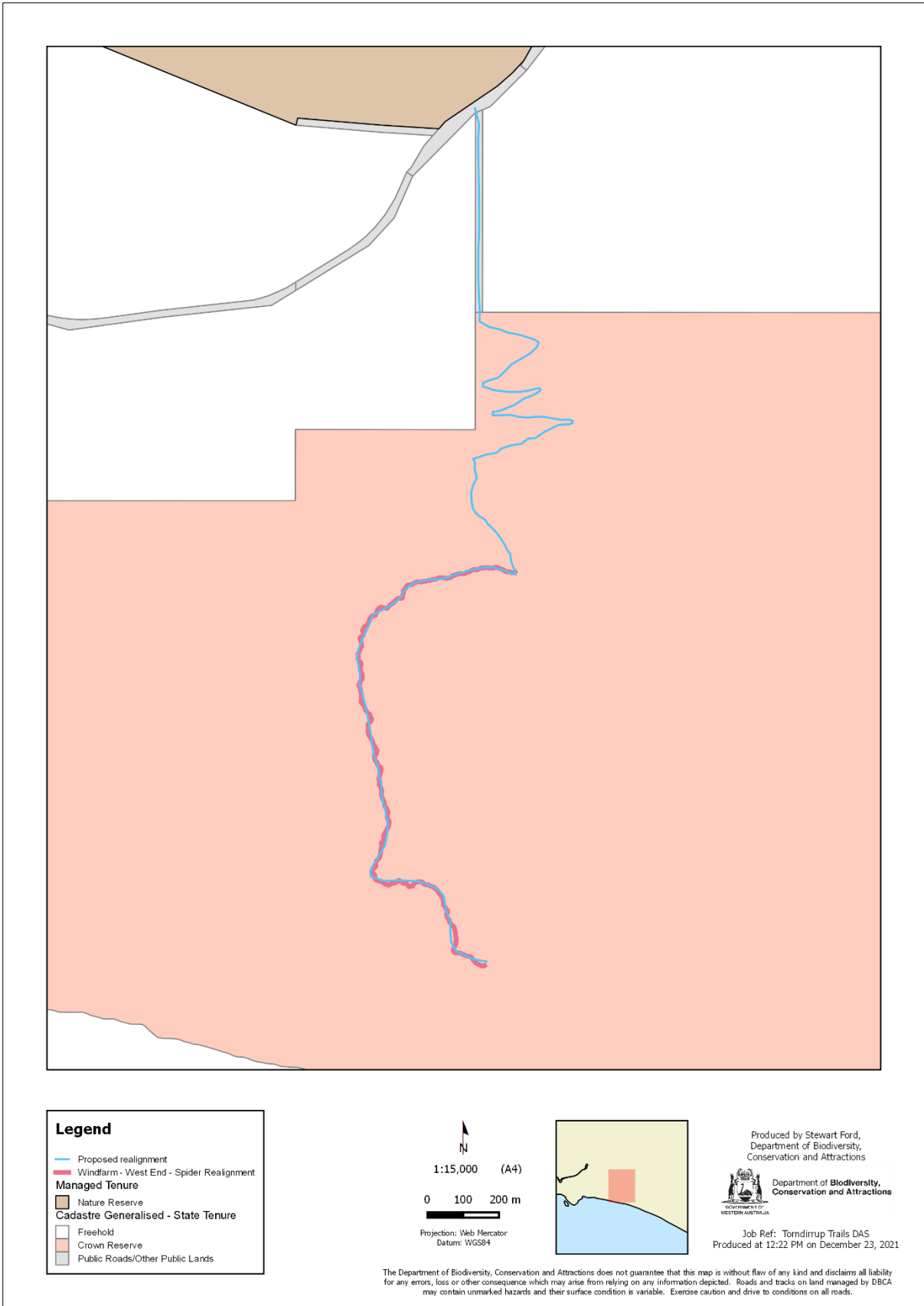


Figure 1 Proposed Munda Biddi Trail realignment. Original is blue, and the updated alignment to avoid *Zephyrarchaea mainae* habitat is red.

Table 1 Species considered to be likely to occur or have the potential to occur within the study area

Status	Common Name	Scientific Name	Conservation Code	Status	DBCA records	EPBC PMST	Comments
Birds							
Likely	<i>Calyptorhynchus baudinii</i>	Baudin's Black-Cockatoo	EN	Endangered species	277	•	Species or species habitat will not be impacted by the proposed works.
Likely	<i>Calyptorhynchus latirostris</i>	Carnaby's Black-Cockatoo	EN	Endangered species	484	•	Species or species habitat will not be impacted by the proposed works.
Likely	<i>Pandion cristatus</i>	Eastern Osprey	MI	Migratory species	128		Species or species habitat will not be impacted by the proposed works.
Likely	<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black-Cockatoo	VU	Vulnerable species	24	•	Species or species habitat will not be impacted by the proposed works.
Potential	<i>Apus pacificus</i>	Fork-tailed Swift	MI	Migratory species	5		Species or species habitat will not be impacted by the proposed works.
Potential	<i>Tyto novaehollandiae novaehollandiae</i>	Masked Owl	P3	Priority 3: Poorly-known species	3		Species or species habitat will not be impacted by the proposed works.
Likely	<i>Falco peregrinus</i>	Peregrine Falcon	OS	Other specially protected fauna	34		Species or species habitat will not be impacted by the proposed works.
Potential	<i>Psophodes nigrogularis nigrogularis</i>	Western Whipbird (western heath)	EN	Endangered species	5	•	Species or species habitat will not be impacted by the proposed works.
Invertebrates							
Likely	<i>Zephyrarchaea mainae</i>	Main's Assassin Spider	VU	Vulnerable species	48		The original alignment traversed some areas of potential habitat that, if cleared, would likely have had an impact on individuals of the species. The updated alignment largely avoids thicker areas with microhabitats suitable for the species, considerably reducing the likelihood that the species' habitat will be impacted.
Potential	<i>Cynotelopus notabilis</i>	Western Australian Pill Millipede	EN	Endangered species	83		The alignment did include areas of potential habitat, but there have been no records of the species in the area surrounding the proposed works. Despite survey effort within the study area, all records of the millipede are from West Cape Howe (10 km to the south-west of the study area), to Denmark.
Mammals							
Likely	<i>Isoodon fusciventer</i>	Quenda, southwestern brown bandicoot	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	211		Quenda are highly mobile in response to disturbance, and individuals are not expected to be impacted by the proposed works.
Likely	<i>Phascogale tapoatafa wambenger</i>	South-western Brush-tailed Phascogale, wambenger	CD	Species of special conservation interest (conservation dependent fauna)	7		Species or species habitat will not be impacted by the proposed works.
Likely	<i>Notamacropus irma</i>	Western Brush Wallaby	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	5		Species or species habitat will not be impacted by the proposed works.
Likely	<i>Pseudocheirus occidentalis</i>	Western Ringtail Possum, ngwayir	CR	Critically endangered species	675	•	Species or species habitat will not be impacted by the proposed works.
Reptiles							
Potential	<i>Elapognathus minor</i>	Short-nosed Snake	P2	Priority 2: Poorly-known species	9		The microhabitat favoured by the species (low, dense vegetation such as sedges and heath) is widespread but patchy within the development corridor. After re-routing the alignment, much of the thicker vegetation has been avoided and it is anticipated that any individuals present when clearing occurs will move away before being impacted.

Appendix 1 Taxa not occurring or considered to be unlikely to occur

Group	Scientific Name	Common Name	Conservation Code	Status	DBCA records	EPBC PMST
Aquatic species						
Fish	<i>Carcharias taurus</i>	Grey Nurse Shark	VU	Vulnerable species	•	•
Fish	<i>Carcharodon carcharias</i>	Great White Shark	VU	Vulnerable species	•	•
Fish	<i>Galaxias truttaceus (Western Australian population)</i>	Western Trout Minnow, western spotted galaxias	EN	Endangered species	•	
Fish	<i>Galaxiella munda</i>	Mud Minnow, western dwarf galaxias	VU	Vulnerable species	•	
Fish	<i>Galaxiella nigrostriata</i>	Black-stripe Minnow, black-striped dwarf galaxias	EN	Endangered species	•	
Fish	<i>Galeorhinus galeus</i>	School Shark	CD	Conservation dependent		
Fish	<i>Geotria australis</i>	Pouched Lamprey	P3	Priority 3: Poorly-known species	•	
Fish	<i>Lepidogalaxias salamandroides</i>	Salamanderfish	EN	Endangered species	•	
Fish	<i>Nannatherina balstoni</i>	Balston's Pygmy Perch	VU	Vulnerable species	•	•
Fish	<i>Phycodurus eques</i>	Leafy Sea Dragon	P2	Priority 2: Poorly-known species	•	
Fish	<i>Rhincodon typus</i>	Whale Shark	OS	Other specially protected fauna	•	•
Fish	<i>Thunnus maccoyii</i>	Southern Bluefin Tuna	CD	Conservation dependent		•
Invertebrate	<i>Westralunio carteri</i>	Carter's Freshwater mussel	VU	Vulnerable species	•	•
Mammal	<i>Arctocephalus tropicalis</i>	Subantarctic Fur-seal	VU	Vulnerable species	•	
Mammal	<i>Balaenoptera borealis</i>	Sei Whale	VU	Vulnerable species		•
Mammal	<i>Balaenoptera musculus</i>	Blue Whale	EN	Endangered species	•	•
Mammal	<i>Balaenoptera physalus</i>	Fin Whale	VU	Vulnerable species		•
Mammal	<i>Eubalaena australis</i>	Southern Right Whale	EN	Endangered species	•	•
Mammal	<i>Megaptera novaeangliae</i>	Humpback Whale	VU	Vulnerable species		•
Mammal	<i>Physeter macrocephalus</i>	Sperm Whale	VU	Vulnerable species	•	
Historical						
Bird	<i>Atrichornis clamosus</i>	Noisy Scrub-bird, tjimiluk	EN	Endangered species	•	
Bird	<i>Dasyornis longirostris</i>	Western Bristlebird	EN	Endangered species	•	•
Bird	<i>Leipoa ocellata</i>	Malleefowl	VU	Vulnerable species	•	
Bird	<i>Pezoporus flaviventris</i>	Western Ground Parrot	CR	Critically endangered species	•	
Invertebrate	<i>Helicarion castanea</i>	a helicarionid land snail	Ex	Extinct species	•	
Invertebrate	<i>Hylaeus globuliferus</i>	Woolybush Bee	P3	Priority 3: Poorly-known species	•	
Mammal	<i>Bettongia penicillata ogilbyi</i>	Woylie, Brush-tailed bettong	CR	Critically endangered species	•	
Mammal	<i>Dasyurus geoffroii</i>	Chuditch, western quoll	VU	Vulnerable species	•	•
Mammal	<i>Macrotis lagotis</i>	Greater Bilby, dalgyte, ninu	VU	Vulnerable species	•	
Mammal	<i>Myrmecobius fasciatus</i>	Numbat, walpurti	EN	Endangered species	•	
Mammal	<i>Parantechinus apicalis</i>	Dibbler	EN	Endangered species	•	•
Mammal	<i>Setonix brachyurus</i>	Quokka	VU	Vulnerable species	•	
Marine species						
Bird	<i>Ardenna carneipes</i>	Flesh-footed Shearwater	VU	Vulnerable species	•	
Bird	<i>Ardenna tenuirostris</i>	Short-tailed Shearwater	MI	Migratory species	•	
Bird	<i>Diomedea antipodensis</i>	Antipodean Albatross	VU	Vulnerable species		•
Bird	<i>Diomedea dabbenena</i>	Tristan Albatross	EN	Endangered species		•
Bird	<i>Diomedea epomophora</i>	Southern Royal Albatross	VU	Vulnerable species		•
Bird	<i>Diomedea exulans</i>	Wandering Albatross	VU	Vulnerable species	•	

Group	Scientific Name	Common Name	Conservation Code	Status	DBCA records	EPBC PMST
Bird	<i>Diomedea sanfordi</i>	Northern Royal Albatross	EN	Endangered species		•
Bird	<i>Halobaena caerulea</i>	Blue Petrel	VU	Vulnerable species		
Bird	<i>Macronectes giganteus</i>	Southern Giant Petrel	EN	Endangered species	•	•
Bird	<i>Macronectes halli</i>	Northern Giant Petrel	VU	Vulnerable species		•
Bird	<i>Oceanites oceanicus</i>	Wilson's Storm-petrel	MI	Migratory species	•	
Bird	<i>Pachyptila turtur subantarctica</i>	Fairy Prion (southern)	VU	Vulnerable species		•
Bird	<i>Phoebastria fusca</i>	Sooty Albatross	VU	Vulnerable species		•
Bird	<i>Pterodroma mollis</i>	Soft-plumaged Petrel	VU	Vulnerable species		•
Bird	<i>Puffinus huttoni</i>	Hutton's Shearwater	EN	Endangered species	•	
Bird	<i>Stercorarius antarcticus lonnbergi</i>	Brown Skua	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	•	
Bird	<i>Stercorarius parasiticus</i>	Arctic Jaeger	MI	Migratory species	•	
Bird	<i>Thalassarche carteri</i>	Indian Yellow-nosed Albatross	EN	Endangered species	•	•
Bird	<i>Thalassarche cauta cauta</i>	Shy Albatross	VU	Vulnerable species	•	•
Bird	<i>Thalassarche chlororhynchos</i>	Atlantic Yellow-nosed Albatross	VU	Vulnerable species	•	
Bird	<i>Thalassarche impavida</i>	Campbell Albatross, Campbell Black-browed Albatross	VU	Vulnerable species		•
Bird	<i>Thalassarche melanophris</i>	Black-browed Albatross	EN	Endangered species	•	
Bird	<i>Thalassarche steadi</i>	White-capped Albatross	VU	Vulnerable species		•
Reptile	<i>Caretta caretta</i>	Loggerhead Turtle	EN	Endangered species	•	
Reptile	<i>Chelonia mydas</i>	Green Turtle	VU	Vulnerable species		•
Reptile	<i>Dermochelys coriacea</i>	Leatherback Turtle	EN	Endangered species	•	
No suitable habitat						
Bird	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	Migratory species	•	
Bird	<i>Arenaria interpres</i>	Ruddy turnstone	MI	Migratory species	•	
Bird	<i>Botaurus poiciloptilus</i>	Australasian Bittern	EN	Endangered species	•	•
Bird	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	MI	Migratory species	•	
Bird	<i>Calidris alba</i>	Sanderling	MI	Migratory species	•	
Bird	<i>Calidris canutus</i>	Red Knot	EN	Endangered species	•	•
Bird	<i>Calidris ferruginea</i>	Curlew Sandpiper	CR	Critically endangered species	•	•
Bird	<i>Calidris ruficollis</i>	Red-necked stint	MI	Migratory species	•	
Bird	<i>Calidris tenuirostris</i>	Great Knot	CR	Critically endangered species	•	•
Bird	<i>Cereopsis novaehollandiae grisea</i>	Cape Barren goose	VU	Vulnerable species	•	•
Bird	<i>Charadrius leschenaultii</i>	Greater Sand Plover	VU	Vulnerable species	•	•
Bird	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	Endangered species	•	•
Bird	<i>Hydroprogne caspia</i>	Caspian Tern	MI	Migratory species	•	
Bird	<i>Limosa lapponica</i>	Bar-tailed Godwit	CR	Critically endangered species	•	•
Bird	<i>Limosa limosa</i>	Black-tailed Godwit	MI	Migratory species	•	
Bird	<i>Numenius madagascariensis</i>	Eastern Curlew	CR	Critically endangered species	•	•
Bird	<i>Numenius phaeopus</i>	Whimbrel	MI	Migratory species	•	
Bird	<i>Oxyura australis</i>	Blue-billed Duck	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	•	
Bird	<i>Pandion cristatus</i>	Eastern Osprey	MI	Migratory species	•	
Bird	<i>Phaethon rubricauda</i>	Red-tailed Tropicbird	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	•	

Group	Scientific Name	Common Name	Conservation Code	Status	DBCA records	EPBC PMST
Bird	<i>Philomachus pugnax</i>	Ruff	MI	Migratory species	•	
Bird	<i>Plegadis falcinellus</i>	Glossy Ibis	MI	Migratory species	•	
Bird	<i>Pluvialis fulva</i>	Pacific Golden Plover	MI	Migratory species	•	
Bird	<i>Pluvialis squatarola</i>	Grey Plover	MI	Migratory species	•	
Bird	<i>Sternula nereis nereis</i>	Australian Fairy Tern	VU	Vulnerable species		•
Bird	<i>Thalasseus bergii</i>	Crested Tern	MI	Migratory species	•	
Bird	<i>Thinornis rubricollis</i>	Hooded Plover	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	•	
Bird	<i>Tringa brevipes</i>	Grey-tailed Tattler	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	•	
Bird	<i>Tringa glareola</i>	Wood Sandpiper	MI	Migratory species	•	
Bird	<i>Tringa nebularia</i>	Common Greenshank	MI	Migratory species	•	
Bird	<i>Tringa stagnatilis</i>	Marsh Sandpiper	MI	Migratory species	•	
Bird	<i>Xenus cinereus</i>	Terek Sandpiper	MI	Migratory species	•	
Invertebrate	<i>Trioza barrettiae</i>	Banksia brownii Plant-louse	EN	Endangered species	•	•
Mammal	<i>Arctocephalus forsteri</i>	New Zealand Fur-seal, long-nosed Fur-seal	OS	Other specially protected fauna	•	
Mammal	<i>Hydromys chrysogaster</i>	Water-rat, rakali	P4	Priority 4: Rare, Near Threatened and other species in need of monitoring	•	
Mammal	<i>Neophoca cinerea</i>	Australian Sea-lion	VU	Vulnerable species	•	•
Outside range						
Bird	<i>Falco hypoleucos</i>	Grey Falcon	VU	Vulnerable		•

Munda Biddi Windfarm realignment

(Original realignment with buffer, and revised alignment)

Legend

- MB-Windfarm-Spider Realignment tracks
- Windfarm realign-new only
- 25m Buffer

NOTES : flora survey conducted within the '25m buffer' area (25m either side of original alignment). The 'MB-windfarm-spider realignment' line indicates revised alignment to avoid Assassin spider habitat. Revised alignment is within the 25m buffer area.

