Westdeen Holdings

Jurien Lime Sand Project M70/307

Jurien Clearing Application CPS 5652/1 - Supporting Document

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Revision: 1

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Executive Summary

A search was undertaken of State and National Databases for the presence of listed or threatened species likely to occur on the proposed clearing footprint on M70/307. The searches were carried out at a 1, 2 and 10km buffer around 30°, 14′, 53″ S, 115°, 02′, 23″ E, the central point of the tenement. The searches did not identify any species likely to be impacted by clearing for lime sand extraction on M70/307. Four plant species were identified with limited potential to occur. A site inspection was carried out on 18 July 2013, none of these species were identified within the clearing footprint. Should their presence be identified during clearing or mining then clearing will be stopped until a management plan has been developed by Westdeen Holdings.

1 Introduction

Westdeen Holdings is seeking approval for a Clearing Permit (Purpose Permit) to clear an additional 20 ha of vegetation on M70/307 (Figure 1-1) to advance their Lime Sand mining face. \cdot

Westdeen Holdings have submitted Clearing Application CPS NO 5652/1 for grant of a permit for this purpose, this document supports the clearing application and is an assessment of the vegetation and habitat types found on the site and contains the results of searches on the State and National databases for listed or threatened species that may occur in this vicinity with an analysis of the likely impacts of undertaking this clearing.

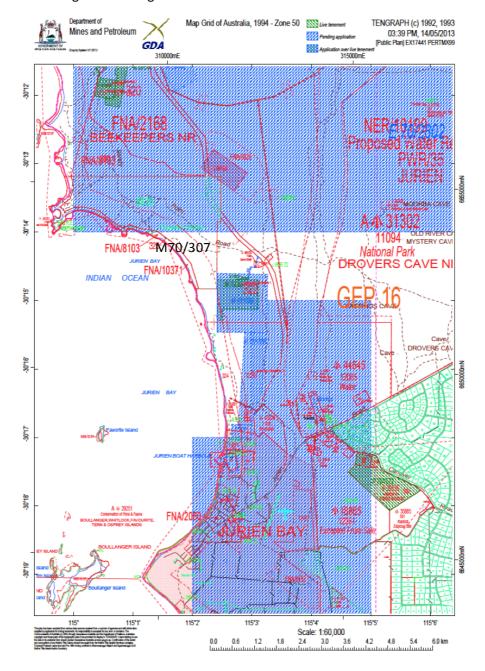


Figure 1-1 Jurien Project M70/307 Tenement Location

1.1 Background

Westdeen Holdings have been extracting Lime Sand from M70/307 at Jurien Bay since the early 1990's. Extraction takes place during summer and autumn for delivery and spreading on farmland prior to the autumn and winter growing season. Rates of extraction varied from 4,000t to 6,000t in the early years increasing to between 10,000t and 30,000t recently. The significant increase in demand more recently is directly related to farmers becoming aware of the yield benefits in applying lime to neutralise acidification resulting from the use of inorganic fertilisers and continuous cropping practices.

Lime Sand is extracted from the high mobile sand dunes typical of this part of the Western Australian Coast between Perth and Geraldton. The dune systems are mobile, 3 to 8 high with little or no vegetation establishment due to high wind velocities and constantly moving sand drifts. Mining takes place from an open face at the base of the dune using front end loaders, lime sand is loaded directly onto trucks for delivery to farms unless roots and other coarse materials are present then the lime sand is screened prior to loading on trucks.

1.2 Floristics

M70/307 occurs in the Swan Coastal Plain IBRA Region, Perth Sub Region. M70/307 is typically low coastal heath which is floristically depauperate (Burbidge and Boscacci, 1989). These heaths are dominated by *Acacia lasiocarpa*, *Melaleuca acerosa* and *Leptomaria spinosa*. Vegetation on the dunes subject to mining is sparse as can be clearly seen in Figure 1-2. The areas proposed for mining have a limited cover of vegetation requiring clearing ahead of mining.

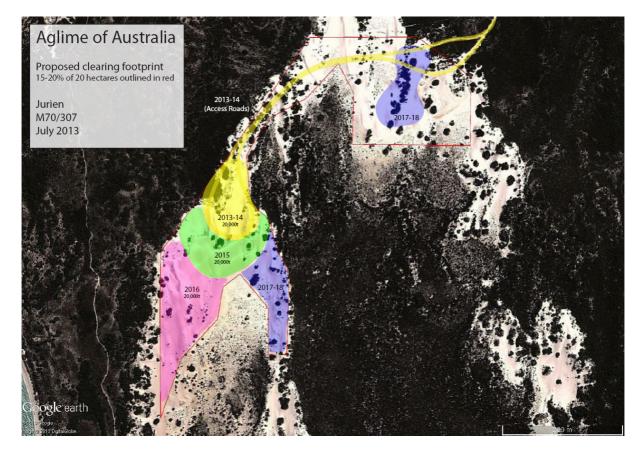


Figure 1-2 Jurien Project Proposed Clearing Footprint

2 State and National Database Searches

Using a centroid of 30°, 14′, 53″ S, 115°, 02′, 23″ E searches were undertaken with 1, 2 and 10 km buffers of both the State and National Databases, results are summarised below. The 3 buffers were analysed to identify potential sensitivities and ensure all species potentially at risk were identified.

2.1 Naturebase

The results from the Naturebase search are summarised in Table 2-1 and the full reports are included as appendices. No listed fauna or flora species were identified within the 1km buffer. Two listed flora species were identified within the 2 km buffer, one listed as rare or likely to become extinct, *Grevillea christineae* and one priority 3 species, *Stylidium maritimum*, as its name suggests the P3 species is associated with the coastal environment. The proposed clearing footprint was surveyed on 18 July for the presence of these species with none identified either within the clearing footprint or on the tenement.

The 10km buffer identified a significantly wider range of species as would be expected as this buffer intersects a wide diversity of both marine and terrestrial environments. These broader areas are quite separate to the project area and lime sand extraction activities will not impact on any of these values or habitats.

Buffer	Rare	Protected	Other Protected	P1	P2	Р3	P4
1km							
2km	1					1	
10km	7	11	2	1	4	9	12

Table 2-1 Summary of Naturebase Results

2.2 EPBC Matters of National Environmental Significance

The results from the EPBC database search are summarised in Table 2-2 and the full reports are included as appendices.

Within the 1km buffer the search identified one National Heritage Place, the Beekeepers Reserve-Lesueur-Coomallo Area and Nambung National Park, 26 Listed Threatened Species and 28 Listed Migratory Species. Of the listed threatened species there are 5 animals and 5 plants that may appear in the project area, these are:

Calyptorhynchus latrirstris (Carnaby's Black Cockatoo), the vegetation within the clearing footprint is not typical of breeding or feeding grounds for this species, this project will not impact on this species.

Dasyurus geoffroii (Chuditch or Western Quoll), no evidence of this species has been seen on site and the proximity to the Lancelin town site would mean high potential for predation by foxes and cats with little vegetation cover to provide protection.

Parantechinus apicalis (Dibbler), these are only known from three Island off the coast of Jurien and not recorded from the project area.

Leipoa ocellata (Mallee Fowl), Mallee Fowl have not been identified in this area during previous mining activities, however a watch will be maintained for the species and should there be evidence of mounds or activity then these will be protected.

Idiosoma nigrum (Shield-backed Trapdoor Spider), this species is reported widely throughout this region from Bunbury in the South to Shark Bay and inland into the pastoral and agricultural regions. Clearing in the project area is unlikely to impact this species.

Caladenia heugelii (King Spider Orchid), The King Spider Orchid is scattered within 20 kms of the Coast from north of Perth to the Scott River in the south, a site survey on 18 July 2013 did not identify the presence of this species in the clearing footprint.

Centrolepis caespitosa, this species has been reported from north of Perth, South to Augusta with populations reported around Albany. It has not been reported in the vicinity of the project site, a site survey on 18 July 2013 did not identify the presence of this species in the clearing footprint.

Grevillea christineae (Christines Grevillea), Christines Grevillea has been reported in this region from north of Perth up to Carnarvon, a site survey on 18 July 2013 did not identify the presence of this species in the clearing footprint.

Hemiandra gardneri (Red Snakebush), Red Snakebush has a similar distribution to Christines Grevillea, a site survey on 18 July 2013 did not identify the presence of this species in the clearing footprint.

Isopogon uncinatus (Hooked-leafed Isopogon), this species is reported from the Albany and Plantagenet Local Government areas and has not been reported in the Jurien location, a site survey on 18 July 2013 did not identify the presence of this species in the clearing footprint.

The project site does not impinge on the National Heritage Place and of the Listed Migratory Species only the Mallee Fowl *Leipoa ocellata* is likely to occur on the project area and none have been identified during operations to date.

The search also identified a number of potentially invasive species. Management of these will be detailed in the Mine Closure Plan.

The 10 km buffer identified a significantly larger range of species as would be expected due to the increased area capturing both sensitive marine and terrestrial environments. The majority of EPBC species listed are marine or migratory species with only those listed above having any potential to be impacted by the project.

Table 2-2 Summary of EPBC Database Results

Buffer	National Heritage Paces	Listed Threatened Species	Listed Migratory Species
1km	1	26	28
2km	1	28	28
10km	1	42	33

2.3 Summary

Searches of both the State and National threatened species databases did not identify any species likely to be impacted by clearing for lime sand extraction on M70/307. Five plant species were

identified with limited potential to occur, however no examples were found to be present during a site survey on 18 July 2013.

Should their presence be identified during clearing or mining operations then the footprint will be modified to avoid disturbance. A photo identification package will be provided to the clearing and mining contractors to enable them to identify these species with instructions to stop clearing and notify the Westdeen Holdings management team to enable a management plan to be developed in consultation with the Department of Mines and Petroleum (DMP) and the Department of Parks and Wildlife (DPAW).

3 References

Burbidge, Boscacci; 1989

A Spring Reconnaissance Survey of the Flora and Fauna of the Southern Beekeepers Reserve, Technical Report NO 22; Allan H Burbidge and Louise J Boscacci, March 1989. CALM, Perth, WA.

Appendix 1 Results of Naturebase Search

Naturebase Species Reports for 1, 2 and 10km Buffers



NatureMap Species Report

Created By Bill Biggs on 05/07/2013

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115°02' 22" E,30°14' 53" S

Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	17	19
TOTAL	17	19

Conservation Code ¹Endemic To Query Area Name ID Species Name

Non-conser	vation	taxon
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NO	II-collact va	tion to	IXOII
	1.	1409	Anigozanthos humilis (Catspaw)
	2.	34237	Beyeria cinerea subsp. borealis
	3.	5498	Chamelaucium uncinatum (Geraldton Wax)
	4.	10804	Clematis linearifolia
	5.	4809	Cryptandra pungens
	6.	4453	Diplolaena angustifolia (Yanchep Rose)
	7.	15275	Diplolaena obovata
	8.	15838	Grevillea preissii subsp. glabrilimba
	9.	7586	Lechenaultia stenosepala (Narrow-sepaled Leschenaultia)
	10.	6434	Leucopogon polymorphus
	11.	13271	Melaleuca huegelii subsp. huegelii
	12.	8149	Olearia rudis (Rough Daisybush)
	13.	24230	Pseudomys albocinereus (Ash-grey Mouse)
	14.	13181	Scaevola repens var. angustifolia
	15.	24109	Sminthopsis dolichura (Little long-tailed Dunnart)
	16.	2791	Tersonia cyathiflora (Button Creeper)
	17.	4737	Tripterococcus brunonis (Winged Stackhousia)

- Conservation Codes
 T Rare or likely to become extinct
 X Presumed extinct
 IA Protected under international agreement
 S Other specially protected fauna
 1 Priority 1
 2 Priority 2
 3 Priority 2
 4 Priority 4
 5 Priority 5





¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



NatureMap Species Report

Created By Bill Biggs on 05/07/2013

Current Names Only Yes
Core Datasets Only Yes

Method 'By Circle'

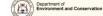
Centre 115°02' 22" E,30°14' 53" S

Buffer 2km

Group By Conservation Status

Conservation Status	Species	Records
Rare or likely to become extinct	1	1
Priority 3	1	1
Non-conservation taxon	46	57
TOTAL	48	59

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
Rare or like	ely to bed	ome extinct			
1.	1976	Grevillea christineae		Т	
Priority 3					
2.	13127	Stylidium maritimum		P3	
				. •	
lon-conse					
3.		Acacia lasiocarpa var. lasiocarpa			
4.		Acanthocarpus preissii			
5.		Alyogyne hakeifolia			
6.		Anigozanthos humilis (Catspaw)			
7.		Anthocercis littorea (Yellow Tailflower)			
8.		Apium annuum			
9.		Beyeria cinerea subsp. borealis			
10.		Chamelaucium uncinatum (Geraldton Wax)			
11.		Clematis linearifolia			
12.		Conostylis candicans subsp. candicans			
13.		Cryptandra pungens			
14.		Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)			
15.		Ctenophorus maculatus subsp. maculatus (Spotted Military Dragon)			
16.		Ctenotus fallens			
17.		Cyclodomorphus celatus			
18.		Diplolaena angustifolia (Yanchep Rose)			
19.		Diplolaena obovata			
20.		Gehyra variegata			
21.		Grevillea preissii subsp. glabrilimba			
22.		Heliophila pusilla	Υ		
23.		Hyalosperma cotula			
24.		Isotoma hypocrateriformis (Woodbridge Poison)			
25.		Lawrencia spicata			
26.		Lechenaultia stenosepala (Narrow-sepaled Leschenaultia)			
27.		Leptomeria pauciflora (Sparse-flowered Currant Bush)			
28.		Leucopogon polymorphus			
29.		Melaleuca huegelii subsp. huegelii			
30.		Mus musculus (House Mouse)	Υ		
31.		Myoporum caprarioides (Slender Myoporum)			
32.		Olearia rudis (Rough Daisybush)			
33.		Phyllanthus calycinus (False Boronia)			
34.		Podolepis gracilis (Slender Podolepis)			
35.		Pseudomys albocinereus (Ash-grey Mouse)			
36.		Rattus fuscipes (Western Bush Rat)			
37.		Rattus fuscipies			Υ
38.		Samolus repens var. paucifolius			
39.	7614	Scaevola globulifera			
40.	13181	Scaevola repens var. angustifolia			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
41.	13152	Scaevola thesioides subsp. thesioides			
42.	997	Schoenus lanatus (Woolly Bog-rush)			
43.	25884	Senecio pinnatifolius var. latilobus			
44.	24109	Sminthopsis dolichura (Little long-tailed Dunnart)			
45.	4733	Stackhousia monogyna			
46.	2791	Tersonia cyathiflora (Button Creeper)			
47.	152	Triglochin trichophora			
48.	4737	Tripterococcus brunonis (Winged Stackhousia)			

- Conservation Codes

 1 Rare or likely to become extinct

 X Presumed extinct

 IA Protected under international agreement

 5 Other specially protected fauna

 1 Priority 1

 2 Priority 2

 3 Priority 2

 4 Priority 4

 5 Priority 5





¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



NatureMap Species Report

Created By Bill Biggs on 05/07/2013

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115°02' 22" E,30°14' 53" S

Buffer 10km

Group By Conservation Status

Conservation Status	Species	Records
Rare or likely to become extinct	7	83
Protected under international agreement	11	57
Other specially protected fauna	2	3
Priority 1	1	1
Priority 2	4	7
Priority 3	9	38
Priority 4	12	27
Non-conservation taxon	771	2047
TOTAL	817	2263

Rare or likely to become extinct		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
1. 34034 Carcharias taurus (Grey Nurse Shark) T	Rare or like	ely to bed	come extinct			
3. 2443 Eubaleana australis (Southern Right Whale) T 4. 1976 Girevillea christineae T 5. 4.1415 Lipologia pulchra subsp. Iongicauda (Jurien Bay Skink) T 6. 2497 Parantechinus apicalis (Dibber) T 7. 24530 Sterna nereis subsp. nereis (Fairy Tern) T Protected under interprestional agreement 8. 41323 Actitis hypolaucos (Common Sandpiper) IA 9. 25800 Ardea sacra (Eastern Reef Egret, Eastern Reef Heron) IA 10. 25736 Arenain interpress (Rudry Turnstone) IA 11. 24780 Calidris articollis (Reed-necked Stint) IA 12. 24783 Haliaeetus kuucogasteri (White-bellied Sea-Eagle) IA 13. 24933 Haliaeetus kuucogasteri (White-bellied Sea-Eagle) IA 14. 30932 Limosa lapponica (Bar-tailed Godwit) IA 15. 25472 Nurmentus phaeologu Kilwihinbrel IA 16. 24333 Pluviaus squataria (Grey Plovar) IA					T	
4. 1976 Grevillea christineae T 5. 41415 Liopholis pubriha subsp. longicauda (Jurien Bay Skink) T 6. 24907 Parantechnius apicialis (Dibbier) T 7. 24530 Sterma nereis subsp. nereis (Fairy Tern) T Protected under international agreement 8. 41323 Actilis hypoleucos (Cormon Sandpiper) IA 9. 25560 Ardea sacra (Eastem Reel Egrat, Eastem Reel Heron) IA 10. 25736 Arenaria Interpress (Ruddy Turnstone) IA 11. 24780 Calidris ruficollis (Red-recked Stint) IA 12. 24788 Calidris ruficollis (Red-recked Stint) IA 13. 24739 Haliaeetus leucogaster (White-belled Sea-Eagle) IA 14. 30303 Limaea lapponice (Bar-sielled Schael) IA 15. 25742 Numenius phaeopus (Whimbrel) IA 16. 24333 Pluvalis sequitational (Carpel Polyton) S 20. 24216 Morelia spilota subsp. imbricata (Carpel Python) S	2.	25051	Ctenotus lancelini (Lancelin Island Ctenotus, Lancelin Island Skink)		T	
5. 41415 Liopholis pulchra subsp. longicauda (Jurien Bay Skink) T 6. 24097 Parantechnus apicalis (Dibbier) T 7. 24530 Sterna nereis subsp. nereis (Fairy Tern) T Protected under intertrusticunal agreement 8. 41323 Actifis hypoleucos (Common Sandpiper) IA 9. 2550 Ardos acara (Eastern Reef Egret, Eastern Reef Heron) IA 10. 25736 Arcania interpruse (Ruchy Turnstona) IA 11. 24780 Calidris alba (Sanderling) IA 12. 24780 Calidris atba (Sanderling) IA 13. 24781 Calidris atba (Sanderling) IA 14. 30332 Linosa lapponica (Ber-tailed Godwit) IA 14. 30332 Linosa lapponica (Bar-tailed Godwit) IA 15. 25742 Numenius phaeopus (Whimbrei) IA 16. 24333 Pluffuss pacificus (Wedge-tailed Shearwater) IA 17. 25740 Morelia spilora subsp. imbricata (Carpet Python) S 20.	3.	24043	Eubalaena australis (Southern Right Whale)		T	
6. 24097 Parametechinus apicalis (Dibber) 7 7 2450 Stema nereis subsp. nereis (Fairy Term) 7 7 7 7 7 7 7 7 7	4.	1976	Grevillea christineae		T	
7. 24530 Stema nereis subsp. nereis (Fairy Term) T Protected under international agreement 8. 41323 Acutis hypoleucos (Common Sandpiper) IA 9. 25560 Ardea scara (Eastern Reef Egret, Eastern Reef Heron) IA 10. 25736 Arenaria interpres (Ruddy Turnstone) IA 11. 24780 Calidris alba (Sanderling) IA 12. 24788 Calidris atba (Sanderling) IA 13. 24293 Haliacetus leucogaster (White-bellied Sea-Eagle) IA 14. 30392 Limosa lapponica (Bar-tailed Godwit) IA 15. 25742 Numenius phieopus, (Whimbrel) IA 16. 24383 Pluvialis squatarola (Grey Plover) IA 17. 24716 Pullinus pacificus (Wedge-tailed Shearwater) IA 18. 24523 Stema caspia (Caspian Term) S 20. 24210 Noophoca cinerea (Australian Sea Lion) S Priority 2 22. 13545 Eucalyptus angularis P2 23. 6432 Leucopogon plumillitrus P2 24. 1426 Stemanthermum limitatum P2 25. 1726 Tryptomene sp. Lancelin (M.E. Trudgen 14000) P2 Priority 3 P2 26. 3493 Acacia piicata P3	5.	41415	Liopholis pulchra subsp. longicauda (Jurien Bay Skink)		Т	
Protected under International agreement	6.	24097	Parantechinus apicalis (Dibbler)		T	
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94. 7839 Arctotheca populifolia (Dune Arctotheca) 95. 26484 Areschougia ligulata 96. 1264 Armocrinum preissii 97. 25566 Artamus cinereus (Black-faced Woodswallow) 98. 24353 Artamus cyanopterus (Dusky Woodswallow)						
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98. 24353 Artamus cyanopterus (Dusky Woodswallow)	96.					
99. Z6486 Asparagopsis taxiformis						
	99.	26486	Asparagopsis taxiformis			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
100.		Aspasmogaster occidentalis			
101.		Asphodelus fistulosus (Onion Weed)	Υ		
102. 103.		Asteridea pulverulenta (Common Bristle Daisy) Asteromenia exanimans			
104.		Astroloma microdonta (Sandplain Cranberry)			
105.		Atherinomorus vaigiensis			
106.	2450	Atriplex amnicola (Swamp Saltbush)			
107.	2452	Atriplex cinerea (Grey Saltbush)			
108.		Aulohalaelurus labiosus			
109. 110.		Austrolabrus maculatus Austrostipa compressa			
111.		Austrostipa crinita			
112.		Austrostipa elegantissima			
113.	17240	Austrostipa flavescens			
114.	17245	Austrostipa mollis			
115.		Avena barbata (Bearded Oat)	Υ		
116.		Banksia candolleana (Propeller Banksia)			
117. 118.		Banksia dallanneyi var. dallanneyi Banksia glaucifolia			
119.		Banksia leptophylla			
120.		Banksia micrantha			
121.	1842	Banksia prionotes (Acorn Banksia)			
122.	32077	Banksia sessilis var. cygnorum			
123.		Banksia sphaerocarpa var. sphaerocarpa (Fox Banksia)			
124. 125.		Banksia strictifolia			
126.		Barbuligobius boehlkei Beaufortia squarrosa (Sand Bottlebrush, Puno)			
127.		Beliops xanthokrossos			
128.		Beyeria cinerea			
129.	34237	Beyeria cinerea subsp. borealis			
130.		Blancoa canescens (Winter Bell)			
131.		Bodianus frenchii			
132. 133.		Bornetia binderiana Boronia ramosa			
134.		Boronia ramosa subsp. anethifolia			
135.		Bossiaea eriocarpa (Common Brown Pea)			
136.	-17123	Bostockia porosa			
137.		Botryocladia leptopoda			
138.		Brachyscome bellidioides			
139. 140.		Brachyscome iberidifolia Brachyurophis fasciolatus subsp. fasciolatus			
141.		Brassica tournefortii (Mediterranean Turnip)	Υ		
142.		Briza maxima (Blowfly Grass)	Υ		
143.	247	Bromus arenarius (Sand Brome)			
144.	249	Bromus diandrus (Great Brome)	Υ		
145.		Burchardia congesta			
146. 147.		Burchardia multiflora (Dwarf Burchardia) Cakile maritima (Sea Rocket)	Υ		
147.		Caladenia flava subsp. flava	1		
149.		Caladenia longicauda subsp. borealis			
150.	24269	Calamanthus campestris (Rufous Fieldwren)			
151.		Calandrinia corrigioloides (Strap Purslane)			
152.		Calandrinia sp. Two Rocks (K. Richardson 211)			
153.		Callitris acuminata (Dwarf Cypress)			
154. 155.		Callitris arenaria (Sandplain Cypress) Callitris pyramidalis (Swamp Cypress)			
156.		Callogobius depressus			
157.	-13856	Callogobius sp. 13			
158.	-15726	Callogobius sp.6			
159.		Callophycus costatus			
160. 161		Callophycus oppositifolius			
161. 162.		Callophycus oppositifolius Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard)			
163.		Calothamnus quadrifidus subsp. quadrifidus			
164.		Calothamnus sanguineus (Silky-leaved Blood flower, Pindak)			
165.	7902	Calotis erinacea (Tangled Burr-daisy)			
166.		Calytrix aurea			
167.		Carphyrius virascons (Coastal Piataco, Kalbaka)			
168. 169.		Carpobrotus virescens (Coastal Pigface, Kolboko) Carpothamnion gunnianum			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
170.		Cassytha racemosa (Dodder Laurel)			
171.		Cassytha racemosa forma racemosa			
172.		Catapodium rigidum (Rigid Fescue)	Υ		
173. 174.		Caulerpa cactoides Caulerpa flexilis var. muelleri			
175.		Caulerpa simpliciuscula			
176.		Caulocystis uvifera			
177.		Ceramium puberulum			
178.		Cerastium pumilum	Υ		
179.		Chaetanthus aristatus			
180.	24186	Chalinolobus gouldii (Gould's Wattled Bat)			
181.	24187	Chalinolobus morio (Chocolate Wattled Bat)			
182.	5498	Chamelaucium uncinatum (Geraldton Wax)			
183.	26621	Champia zostericola			
184.		Charadrius ruficapillus (Red-capped Plover)			
185.		Chauviniella coriifolia			
186.		Chellodactylus rubrolabiatus			
187. 188.		Chelmonops curiosus Choeroichthys suillus			
189.		Choeroicharys suillus Chondria curdieana			
190.		Chondria dangeardii			
191.		Chondria succulenta			Υ
192.		Chorizema cordatum			
193.	24980	Christinus marmoratus (Marbled Gecko)			
194.	-17027	Cirripectes hutchinsi			
195.	26659	Cladophora valonioides			
196.	26663	Cladurus elatus			
197.	26665	Claviclonium ovatum			
198.	10804	Clematis linearifolia			
199.		Codium galeatum			
200.		Codium mamillosum			
201.		Codium spongiosum			
202. 203.		Coelocionium tasmanicum Colluricincia harmonica (Grey Shrike-thrush)			
203.		Colpomenia sinuosa			
205.		Comesperma acerosum			
206.		Comesperma calymega (Blue-spike Milkwort)			
207.		Comesperma confertum			
208.	4555	Comesperma integerrimum			
209.	-17522	Conger wilsoni			
210.	15511	Conospermum boreale			
211.		Conospermum crassinervium (Summer Smokebush)			
212.		Conospermum nervosum			
213.		Conospermum stoechadis (Common Smokebush)			
214.		Conospermum stoechadis subsp. stoechadis (Common Smokebush)			
215. 216.		Conostephium pendulum (Pearl Flower) Conostephium preissii			
217.		Conostylis aurea (Golden Conostylis)			
218.		Conostylis candicans (Grey Cottonhead)			
219.		Conostylis candicans (circy estamada) Conostylis candicans subsp. calcicola			
220.		Conostylis candicans subsp. candicans			
221.		Conostylis candicans subsp. procumbens			
222.	11773	Conostylis crassinervia subsp. absens			
223.	11870	Conostylis teretifolia subsp. teretifolia			
224.	7939	Conyza bonariensis (Flaxleaf Fleabane)	Υ		
225.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
226.		Coris auricularis			
227.		Corvus coronoides (Australian Raven)			
228.		Corynotheca micrantha var. micrantha Catula catulaidas (Smooth Catula)			
229. 230.		Cotula cotuloides (Smooth Cotula) Cracticus tibicen (Australian Magnie)			
230.		Cracticus tibicen (Australian Magpie) Cracticus torquatus (Grey Butcherbird)			
231.		Craspedocarpus blepharicarpus			
233.		Crassula colorata (Dense Stonecrop)			
234.		Crassula colorata var. colorata			
235.		Crassula glomerata	Υ		
236.		Crenadactylus ocellatus subsp. ocellatus (Clawless Gecko)			
237.	4809	Cryptandra pungens			
238.	4810	Cryptandra scoparia			
239.	30893	Cryptoblepharus buchananii			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
240.	26709	Cryptonemia undulata			
241.		Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)			
242.		Ctenophorus maculatus subsp. maculatus (Spotted Military Dragon)			
243.		Ctenotus australis			
244.		Ctenotus fallens			
245. 246.		Curdiea obesa Cyclodomorphus celatus			
247.		Cynodon dactylon (Couch)	Υ		
248.		Cystoseira trinodis			
249.		Dampiera coronata (Wedge-leaved Dampiera)			
250.		Dampiera teres (Terete-leaved Dampiera)			
251.	25673	Daphoenositta chrysoptera (Varied Sittella)			
252.	5511	Darwinia helichrysoides			
253.	5528	Darwinia sanguinea			
254.	5529	Darwinia speciosa			
255.		Dasya cliftonii			
256.		Dasya elongata			
257.		Dasyphila preissii			
258.		Dasypogon obliquifolius			
259. 260.		Daucus glochidiatus (Australian Carrot) Daviesia angulata			
261.		Daviesia divaricata subsp. divaricata			
262.		Daviesia podophylla			
263.		Daviesia polyphylla			
264.		Delma fraseri (Fraser's Legless Lizard)			
265.	24999	Delma grayii			
266.	25296	Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake)			
267.	17663	Desmocladus asper			
268.	25607	Dicaeum hirundinaceum (Mistletoebird)			
269.	29615	Dichotomaria obtusata			
270.		Dicranema revolutum			
271.		Dictyomenia sonderi			
272.		Dictyomenia tridens			
273. 274.		Dictyopteris muelleri			
274. 275.		Dictyopteris plagiogramma Dictyota fastigiata			
275. 276.		Dictyota rastigiata Dictyota moniliformis			
277.		Dictyota paniculata			
278.		Dictyota polyclada			
279.	29536	Dictyota robusta			
280.	-14379	Diodon nicthemerus			
281.	24938	Diplodactylus ornatus			
282.		Diplodactylus polyophthalmus			
283.		Diplolaena angustifolia (Yanchep Rose)			
284.		Diplolaena ferruginea			
285.		Diplolaena leemaniana			
286.		Diplolaena obovata			
287. 288.		Diplopeltis huegelii subsp. huegelii Diplotaxis muralis (Wall Rocket)	Υ		
289.		Dipulus caecus	r		
290.		Dipulus taecus			
291.		Dischisma arenarium	Υ		
292.		Diuris sp. Eneabba (A.H. Burbidge 3941)			
293.	4754	Dodonaea aptera (Coast Hop-bush)			
294.	4761	Dodonaea ericoides			
295.	26797	Drewiana nitella			
296.	24470	Dromaius novaehollandiae (Emu)			
297.		Drosera barbigera			
298.		Drosera eneabba			
299.		Drosera erythrorhiza (Red Ink Sundew)			
300.		Drosera gigantea subsp. gigantea			
301. 302		Drosera humilis			
302. 303.		Drosera menziesii subsp. penicillaris Drosera nallida (Pala Rainhow)			
303.		Drosera pallida (Pale Rainbow) Drosera porrecta			
304.		Echiopsis curta (Bardick)			
306.		Egernia kingii (King's Skink)			
307.		Egernia napoleonis			
308.		Ehrharta longiflora (Annual Veldt Grass)	Υ		
309.		Ehrharta villosa (Pyp Grass)	Υ		
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
310.		Encyothalia cliftonii			
311. 312.		Eopsaltria georgiana (White-breasted Robin) Epinephelides armatus			
313.		Epthianura albifrons (White-fronted Chat)			
314.		Eremaea beaufortioides			
315.	5540	Eremaea fimbriata			
316.	14103	Eremaea pauciflora var. calyptra			
317.		Eremaea violacea (Violet Eremaea)			
318. 319.		Eremophila glabra subsp. albicans Erymophyllum ramosum subsp. involucratum			
320.		Erythroclonium angustatum			
321.		Eucalyptus accedens (Powderbark Wandoo)			
322.	5649	Eucalyptus foecunda (Narrow-leaved Red Mallee)			
323.	5658	Eucalyptus gittinsii (Northern Sandplain Mallee)			
324.		Eucalyptus obtusiflora (Dongara Mallee)			
325. 326.		Eucalyptus obtusiflora subsp. dongarraensis			
327.		Eucalyptus petrensis Eucalyptus rudis (Flooded Gum, Kulurda)			
328.		Eucalyptus todtiana (Coastal Blackbutt)			
329.		Eucalyptus wandoo subsp. pulverea			
330.	15137	Euchiton sphaericus			
331.		Euptilocladia spongiosa			
332.		Euptilota articulata			
333. 334.		Eviota bimaculata			
335.		Exocarpos sparteus (Broom Ballart, Djuk) Falco berigora (Brown Falcon)			
336.		Falco cenchroides (Australian Kestrel)			
337.		Falco longipennis (Australian Hobby)			
338.	24041	Felis catus (Cat)	Υ		
339.		Fistularia petimba			
340.		Fulmarus glacialoides (Southern Fulmar)			
341. 342.		Gahnia trifida (Coast Saw-sedge)			
342.		Galaxaura rugosa Galaxias occidentalis (Western Minnow)			
344.		Galium aparine (Goosegrass)	Υ		
345.		Galium murale (Small Goosegrass)	Υ		
346.	24765	Gallirallus philippensis subsp. mellori (Buff-banded Rail)			
347.		Gastrolobium callistachys (Rock Poison)			
348.		Gastrolobium linearifolium			
349. 350.		Gehyra variegata Geleznowia verrucosa			
351.		Gelidium crinale			
352.	26850	Gelinaria ulvoidea			
353.	-17238	Genus A sp. 2			
354.		Georgeantha hexandra			
355.		Gerygone fusca (Western Gerygone)			
356. 357.		Gigartina disticha Gloiocladia australe			
358.		Gompholobium knightianum			
359.		Gompholobium preissii			
360.		Gompholobium tomentosum (Hairy Yellow Pea)			
361.		Goodenia convexa			
362.		Goodenia pulchella subsp. Coastal Plain A (M. Hislop 634)			
363. 364.		Gracilaria cliftonii Gracilaria preissiana			
365.		Graciiana preissiana Grallina cyanoleuca (Magpie-lark)			
366.		Grevillea biformis subsp. biformis			
367.		Grevillea preissii subsp. glabrilimba			
368.	5012	Guichenotia macrantha (Large-flowered Guichenotia)			
369.		Gymnothorax prasinus			
370.		Gymnothorax woodwardi			
371. 372.		Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher)			
373.		Haemodorum discolor			
374.		Haemodorum simulans			
375.		Haemodorum spicatum (Mardja)			
376.	2136	Hakea candolleana			
377.		Hakea costata (Ribbed Hakea)			
378. 379.		Hakea eneabba Hakea flabellifolia (Fan-leaved Hakea)			
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2016 1916		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
305. 1338 Friend eclipsing and part in Principal						
304. 1-107 Inhaburenge store prise the halle			, , , ,			
1936						
386. -1-4-668 Principlement Securities						
3807. 3614 Nelpischer researe			·			
381						
3815 Hardwindergia compressional phates Windows)						
391. 14-150 Neleogram decorrors	388.	26911	Haraldiophyllum erosum			
331. 25411 Hebiotycous graft (Manney Frog)	389.	3961	Hardenbergia comptoniana (Native Wisteria)			
380.2 Soil Feliophility (2018)	390.	-14350	Helcogramma decurrens			
393. 3016 Feliophilis possible 394. 19013 - Melmenterina galatine 395. 18933 - Memberdering galatine 396. 18933 - Memberderin galatine 397. 8398 - Langerina (Simelburghi) 398. 19102 - Memberderina pungeria (Simelburghi) 399. 41102 - Memberderina pungeria (Simelburghi) 399. 41102 - Memberderina pungeria (Simelburghi) 401. 2019 - Memberderina deribing (Melvillo) (Drugordi) 401. 2019 - Memberderina erreitation 402. 2019 - Memberderina erreitation 403. 1-7102 - Memberderina erreitation 404. 1-17102 - Memberderina erreitation 405. 1-71145 - Memberderina puntagoriaron 406. 1-21146 - Memberderina puntagoriaron 407. 2019 - Memberderina puntagoriaron 408. 5-17146 - Memberderina puntagoriaron 409. 5-1914 - Memberderina puntagoriaron 410. 4-1914 - Memberderina puntagoriaron 411. 2-491 - Memberderina puntagoriaron 411. 2-491 - Memberderina puntagoriaron 412. 4-1915 - Memberderina puntagoriaron 413. 2019 - Memberderina puntagoriaron 414. 1-1913 - Memberderina puntagoriaron 415. 3019 - Memberderina puntagoriaron 416. 3019 - Memberderina puntagoriaron 417. 1-1914 - Memberderina puntagoriaron 418. 5-1914 - Memberderina puntagoriaron 419. 5-1914 - Memberderina puntagoriaron 419. 5-1914 - Memberderina puntagoriaron 420. 2019 - Mybrocellaron authoriaron 421. 2019 - Mybrocellaron authoriaron 422. 3019 - Mybrocellaron authoriaron 423. 3019 - Mybrocellaron authoriaron 424. 5-1915 - Mybrocellaron authoriaron 425. 5-1916 - Mybrocellaron authoriaron 426. 5-1916 - Mybrocellaron authoriaron 427. 1910 - Mybrocellaron authoriaron 428. 5-1916 - Mybrocellaron authoriaron 429. 5-1916 - Mybrocellaron authoriaron 420. 2019 - Mybrocellaron authoriaron 421. 1916 - Mybrocellaron authoriaron 422. 1916 - Mybrocellaron authoriaron 423. 1916 - Mybrocellaron authoriaron 424. 1916 - Mybrocellaron authoriaron 425. 1916 - Mybrocellaron authoriaron 426. 1917 - Mybrocellaron authoriaron 427. 1918 - Mybrocellaron authoriaron 428. 1917 -						
396. 2011 Perimeton autorials						
385. 1933 Heminandes gabrian autous, plutors 387. 983 Heminandes surgians (Sinekeputal) 388. 41500 Meminandes surgians (Sinekeputal) 389. 41500 Meminandes surgians (Sinekeputal) 400. 2819 Heminandes surgians (Sinekeputal) 401. 2819 Heminandes surgians 402. 2019 Meminandes veracitars 403. 417102 Meminandes veracitars 404. 417102 Meminandes veracitars 405. 417103 Meminandes protrajactorians 406. 417104 Meminandes protrajactorians 407. 2016 Meminandes protrajactorians 408. 517104 Meminandes protrajactorians 409. 5172 Melborian protrajactorians 409. 5172 Melborian protrajactorians 409. 5172 Melborian protrajactorians 409. 5172 Melborian protrajactorians 410. 417103 Meminandes protrajactorians 411. 24491 Humoto resourans (Melborian protrajactorians 412. 417104 Melborian protrajactorians Protrajactorians 413. 20104 Meminandes critations 414. 4171 Melborian protrajactorians 415. 3019 Melborian protrajactorians 416. 5171 Melborian protrajactorians 4172 Melborian protrajactorians 418. 5171 Melborians protrajactorians 419. 5171 Melborians protrajactorians 410. 6171 Melborian protrajactorians 411. 4171 Melborians protrajactorians 412. 4171 Melborians protrajactorians 413. 5171 Meminandes protrajactorians 414. 4171 Melborians protrajactorians 415. 5171 Meminandes protrajactorians 416. 5171 Meminandes protrajactorians 4172 Melborians protrajactorians 418. 5171 Meminandes protrajactorians 419. 5171 Meminandes protrajactorians 410. 5171 Meminandes protrajactorians 411. 5171 Meminandes protrajactorians 412. 5171 Meminandes protrajactorians 413. 5171 Meminandes protrajactorians 414. 6171 Meminandes protrajactorians 415. 5171 Meminandes protrajactorians 416. 5171 Meminandes protrajactorians 4171 Meminandes protrajactorians 418. 5171 Meminandes protrajactorians 419. 5171 Meminandes protrajactorians 419. 5171 Meminandes protrajactorians 419.				Y		
1975 Perimetric globa subseptibles						
387. SSS1 Freinandra purgons (Parkeblant)			•			
398, 41020 Ferninghore barnings (1904) Program	397.					
400. 28915 Hermedyn crisps 401 - 19199 Hermedyn crisps 402 - 19199 Hermedyn crisps 403 - 197102 Hermedyn adehidae 404 - 19581 Hermedyn adehidae 405 - 19181 Hermedyn adehidae 406 - 19585 Hermedyna synthyty (ma) 406 - 19585 Hermedyna synthyty (ma) 407 - 26656 Hermedyna synthyty (ma) 408 - 1915 Hermedyna synthyty (ma) 409 - 1915 Hermedyna synthyty (ma) 409 - 1915 Hermedyna synthyty (ma) 410 - 1917 Historia gortony (fellow Butterups) 411 - 24491 Historia gortony (fellow Butterups) 412 - 191858 History synthytoria synthyty 413 - 28656 Hermedyna crisps (fellow Butterups) 414 - 1918 History (fellow Butterups) 415 - 3866 Hormeghyna crisps (fellow Butterups) 416 - 3876 Hormeghyna crisps (fellow Butterups) 417 - 1918 History (fellow Butterups) 418 - 1918 History (fellow Butterups) 419 - 1918 History (fellow Butterups) 410 - 1918 History (fellow Butterups) 411 - 1918 History (fellow Butterups) 412 - 1918 History (fellow Butterups) 413 - 1918 History (fellow Butterups) 414 - 1918 History (fellow Butterups) 415 - 3866 Hormeghyna crisps (fellow Butterups) 416 - 3867 Horne Stratca 417 - 1918 Hybrochynthia sudap, Hill River (fellow Bernett 2253) 420 - 2909 Hybrochynthia sudap, Hill River (fellow Bernett 2253) 421 - 1918 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 422 - 3558 Hybroch sudariana 423 - 3657 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 424 - 3657 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 425 - 4568 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 426 - 4768 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 427 - 4768 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 428 - 471 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 429 - 471 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 429 - 471 Hill River (fellow Bernett 2254) 420 - 471 Hybrochynthia sudap, Hill River (fellow Bernett 2254) 421 - 471 Hill River (fellow Bernett 2254) 422 - 471 Hill River (fellow Bernett 2254) 423 - 471 Hill River (fellow Bernett 2254) 424 - 471 Hill River (fellow Bernett 2254) 425 - 4	398.	25119	Hemiergis quadrilineata			
401. 2019 Hipposphonia restration	399.	41020	Hemiphora bartlingii (Woolly Dragon)			
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449. Z4010 Larus dominicanus (Neip Guii)			• •			
	44 9.	2 4 310	Larus dominicanus (Naip Guir)		AVII DE LA COLLEGIO D	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
450.	24511	Larus novaehollandiae subsp. novaehollandiae (Silver Gull)			
451.	25638	Larus pacificus (Pacific Gull)			
452.		Lasiopetalum drummondii			
453.		Lasiopetalum sp. Mount Lesueur (E.A. Griffin 1997)			
454.		Laurencia brongniartii			
455. 456.		Laurencia clavata Laurencia filiformis			
457.		Lawrencia spicata			
458.		Laxmannia omnifertilis			
459.		Laxmannia sessiliflora subsp. drummondii			
460.		Lecanora lividocinerea			Υ
461.	29390	Lecanora symmicta			Υ
462.	7577	Lechenaultia hirsuta (Hairy Leschenaultia)			
463.	7580	Lechenaultia linarioides (Yellow Leschenaultia)			
464.	7586	Lechenaultia stenosepala (Narrow-sepaled Leschenaultia)			
465.		Lenormandia latifolia			
466.		Lenormandia pardalis			
467.		Lenormandia spectabilis			
468.		Lepidium foliosum (Leafy Peppercress)			
469. 470.		Lepidium lyratogynum			
471.		Lepidobolus preissianus Lepidosperma gladiatum (Coast Sword-sedge, Kerbin)			
472.		Lepidosperma giadatatii (Goast Gword-Sedge, Neibiri)			
473.		Lepidosperma sp. Coastal Dunes (R.J. Cranfield 9963)			
474.		Leptomeria pauciflora (Sparse-flowered Currant Bush)			
475.		Leptomeria preissiana			
476.	17852	Leptorhynchos scaber (Lanky Buttons)			
477.	-15850	Leptoscarus sp.			Υ
478.	27015	Leptosomia rosea			
479.	5857	Leptospermum spinescens			
480.		Lerista lineopunctulata			
481.		Lerista planiventralis subsp. decora			
482.		Lerista praepedita			
483.		Leucopogon cochlearifolius			
484. 485.		Leucopogon conostephioides Leucopogon parviflorus (Coast Beard-heath)			
486.		Leucopogon polymorphus			
487.		Lialis burtonis			
488.		Lichmera indistincta (Brown Honeyeater)			
489.	25415	Limnodynastes dorsalis (Western Banjo Frog)			
490.	41413	Liopholis multiscutata (Bull Skink)			
491.	478	Lolium rigidum (Wimmera Ryegrass)	Υ		
492.		Lolium x hybridum	Υ		
493.		Lomandra maritima			
494.		Lomandra preissii			
495.		Lotella rhacinus			
496.		Luciasium alboguttatum			
497. 498.		Lysinema pentapetalum Macarthuria apetala			
499.		Macarthuria australis			
500.		Macropidia fuliginosa (Black Kangaroo Paw)			
501.		Macropus fuliginosus (Western Grey Kangaroo)			
502.		Macropus robustus subsp. erubescens (Euro, Biggada)			
503.	25651	Malurus lamberti (Variegated Fairy-wren)			
504.	25652	Malurus leucopterus (White-winged Fairy-wren)			
505.	24551	Malurus pulcherrimus (Blue-breasted Fairy-wren)			
506.	25654	Malurus splendens (Splendid Fairy-wren)			
507.		Malva preissiana			
508.		Melaleuca huegelii subsp. huegelii			
509.		Melaleuca leiopyxis			
510.		Melaleuca leuropoma			
511. 512.		Melaleuca platycalyx Melaleuca rhaphiophylla (Swamp Paperbark)			
512. 513.		Melaleuca rhaphiophylla (Swamp Paperbark) Melaleuca systena			
513. 514.		Melaleuca trichophylla			
515.		Melaleuca urceolaris			
516.		Menetia greyii			
517.		Mesomelaena pseudostygia			
518.	27067	Metagoniolithon chara			
519.	27070	Metamastophora flabellata			
				Construct of	**********







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
520.	485	Microlaena stipoides (Weeping Grass)			
521.	8105	Millotia myosotidifolia			
522.		Mirbelia spinosa			
523.		Morethia lineoocellata			
524.		Morethia obscura			
525. 526.		Muraenichthys sp. Mus musculus (House Mouse)	Υ		
527.		Mychodea disticha	ĭ		
528.		Myoporum caprarioides (Slender Myoporum)			
529.		Myoporum insulare (Blueberry Tree, boobialla)			
530.		Myriodesma quercifolium			
531.	-17076	Nannocampus subosseus			
532.	-14844	Nectamia fusca			
533.	25426	Neobatrachus pelobatoides (Humming Frog)			
534.		Neophema petrophila (Rock Parrot)			
535.		Neurymenia fraxinifolia			
536.		Nicotiana occidentalis subsp. hesperis			
537.		Ninox novaeseelandiae (Boobook Owl)			
538. 539.		Nizymenia conferta Nizymenia furcata			
540.		Norfolkia brachylepis			
541.		Notolabrus parilus			
542.		Nuytsia floribunda (Christmas Tree, Mudja)			
543.	24194	Nyctophilus geoffroyi (Lesser Long-eared Bat)			
544.	24495	Oceanites marinus subsp. dulciae (White-faced Storm Petrel)			
545.	24407	Ocyphaps lophotes (Crested Pigeon)			
546.	-17010	Odax acroptilus			
547.		Odax cyanomelas			
548.		Oenothera drummondii subsp. drummondii	Y		
549.		Oenothera stricta subsp. stricta Olax benthamiana	Υ		
550. 551.		Olax bentinamana Olearia rudis (Rough Daisybush)			
552.		Opercularia vaginata (Dog Weed)			
553.		Ophiclinus gracilis			
554.		Orobanche minor (Lesser Broomrape)	Υ		
555.	4355	Oxalis perennans			
556.	25679	Pachycephala pectoralis (Golden Whistler)			
557.	25680	Pachycephala rufiventris (Rufous Whistler)			
558.		Padina elegans			
559.		Padina sanctae-crucis			
560. 561.		Pandion haliaetus (Osprey) Pandion haliaetus subsp. cristatus (Osprey)			
562.		Parablennius postoculomaculatus			
563.		Parapercis haackei			
564.		Parapholis incurva (Coast Barbgrass)	Υ		
565.	-14880	Paraplesiops meleagris			
566.	-13513	Paraplotosus albilabris			
567.	25253	Parasuta gouldii			
568.		Pardalotus striatus (Striated Pardalote)			
569.		Parietaria debilis (Pellitory)			
570.		Parma accidentalis			
571. 572.		Parma occidentalis Parupeneus spilurus			
573.		Parvicrepis ?			
574.		Parvicrepis sp.			
575.		Patersonia occidentalis (Purple Flag, Koma)			
576.	24648	Pelecanus conspicillatus (Australian Pelican)			
577.	-13703	Pempheris analis			
578.	-14600	Pempheris klunzingeri			
579.		Pempheris multiradiata			
580.		Penicillus nodulosus			
581.		Petrophile axillaris			
582. 583.		Petrophile macrostachya			
583. 584.		Petrophile macrostachya Petrophile serruriae			
585.		Peyssonnelia novae-hollandiae			
586.		Phacelocarpus alatus			
587.		Phacelocarpus labillardieri			
588.		Phalacrocorax carbo (Great Cormorant)			
589.	25698	Phalacrocorax melanoleucos (Little Pied Cormorant)			
				Survey December 1	**********







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
590.		Phalacrocorax sulcirostris (Little Black Cormorant)			
591.		Phalacrocorax varius (Pied Cormorant)			
592. 593.		Phaps chalcoptera (Common Bronzewing) Phaps elegans (Brush Bronzewing)			
594.		Philotheca spicata (Pepper and Salt)			
595.		Phlebocarya filifolia			
596.		Phyllanthus calycinus (False Boronia)			
597.	-16479	Phyllophichthus macrurus			
598.	27974	Physcia poncinsii			
599.	-14180	Pictilabrus laticlavius			
600.		Pimelea angustifolia (Narrow-leaved Pimelea)			
601.		Pimelea argentea (Silvery Leaved Pimelea)			
602.		Pimelea ferruginea Pimelea floribunda			
603. 604.		Pimelea gilgiana			
605.		Pimelea imbricata var. piligera			
606.		Pimelea sulphurea (Yellow Banjine)			
607.		Pithocarpa cordata			
608.	18353	Pithocarpa pulchella var. pulchella			
609.	7302	Plantago hispida			
610.	-14874	Platycephalus speculator			
611.		Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)			
612.		Platysace xerophila			
613.		Platythalia angustifolia			
614. 615.		Plectranthias alleni Plectroglyphidodon leucozonus			
616.		Pletholax gracilis subsp. gracilis (Keeled Legless Lizard)			
617.		Plocamium mertensii			
618.		Plocamium preissianum			
619.	573	Poa drummondiana (Knotted Poa)			
620.	577	Poa poiformis (Coastal Poa)			
621.	8175	Podolepis gracilis (Slender Podolepis)			
622.		Podotheca chrysantha (Yellow Podotheca)			
623.		Pogona minor subsp. minor (Dwarf Bearded Dragon)			
624. 625.		Polianthion wichurae Policeophalus policeophalus (Heary beeded Grobe)			
626.		Poliocephalus poliocephalus (Hoary-headed Grebe) Pollexfenia lobata			
627.		Pollexfenia pedicellata			
628.		Polysiphonia decipiens			
629.	30854	Polytelis anthopeplus subsp. westralis (Regent Parrot)			
630.	-14144	Pomacentrus milleri			
631.		Porocephalichthys dasyrhynchus			
632.		Posidonia sinuosa			
633.		Posidonichthys hutchinsi Posophyllym firstein (Friederal Lock Orabid)			
634. 635.		Prasophyllum fimbria (Fringed Leek Orchid) Prasophyllum sargentii			
636.		Priolepis nuchifasciata			
637.		Protochelifer cavernarum			
638.		Protokuetzingia australasica			
639.	25261	Pseudechis australis (Mulga Snake)			
640.	-14154	Pseudochromis wilsoni			
641.		Pseudogobius olorum			
642.		Pseudolabrus biserialis			
643.		Pseudomys albocinereus (Ash-grey Mouse)			
644. 645.		Pseudonaja mengdeni (Western Brown Snake) Pseudophryne guentheri (Crawling Toadlet)			
646.		Psilothallia siliculosa			
647.		Psilothallia striata			
648.	27195	Pterocladia lucida			
649.	11260	Ptilotus drummondii var. drummondii (Pussytail)			
650.	41505	Ptilotus gaudichaudii subsp. eremita			
651.		Ptilotus manglesii (Pom Poms, Mulamula)			
652.		Ptilotus stirlingii subsp. stirlingii			
653.		Puffinus assimilis (Little Shearwater)			
654. 655.		Puffinus assimilis subsp. assimilis (Little Shearwater) Pygopus lepidopodus (Common Scaly Foot)			
656.		Pyrorchis nigricans (Red beaks, Elephants ears)			
657.		Racopilum cuspidigerum var. convolutaceum			
658.		Ramphotyphlops australis			
659.		Rattus fuscipes (Western Bush Rat)			
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		Species Name	Naturalised	Conservation Code	Area
660.		Rattus fuscipies			Y
661.		Reichardia tingitana (False Sowthistle)	Υ		
662. 663.		Rhabdonia clavigera Rhabdonia coccinea			
664.		Rhagodia baccata subsp. baccata			
665.		Rhagodia preissii			
666.		Rhipidura leucophrys (Willie Wagtail)			
667.	13300	Rhodanthe citrina			
668.	27221	Rhodopeltis borealis			
669.		Rhodymenia sonderi			
670.		Ricinocarpos undulatus			
671. 672.		Rostraria cristata Segina enetala (Appual Receivent)	Y		
673.		Sagina apetala (Annual Pearlwort) Salsola australis	Υ		
674.		Samolus repens (Creeping Brookweed)			
675.		Samolus repens var. paucifolius			
676.		Santalum acuminatum (Quandong, Warnga)			
677.	27239	Sargassum fallax			
678.	27244	Sargassum heteromorphum			
679.	27246	Sargassum lacerifolium			
680.		Sargassum spinuligerum			
681.		Sargassum tristichum			
682. 683.		Sargassum verruculosum Scaberia agardhii			
684.		Scaevola canescens (Grey Scaevola)			
685.		Scaevola crassifolia (Thick-leaved Fan-flower)			
686.		Scaevola glandulifera (Viscid Hand-flower)			
687.	7614	Scaevola globulifera			
688.	7626	Scaevola nitida (Shining Fanflower)			
689.		Scaevola phlebopetala (Velvet Fanflower)			
690.		Scaevola repens subsp. Northern Sandplains (R.J. Cranfield & P.J. Spencer 8445)			
691.		Scaevola repens var. angustifolia			
692. 693.		Scaevola sericophylla Scaevola thesioides			
694.		Scaevola thesioides subsp. thesioides			
695.		Schoenus lanatus (Woolly Bog-rush)			
696.		Scholtzia ciliata			
697.	6034	Scholtzia laxiflora			
698.	6037	Scholtzia parviflora			
699.		Scholtzia sp. Jurien (R. Cranfield & P. Spencer RJC 8443)			
700.		Scholtzia sp. Wongonderrah (M.E. & M.R. Trudgen MET 12000)			
701. 702.		Scholtzia umbellifera Schuettea woodwardi			
703.		Scinaia aborealis			
704.		Scobinichthys granulatus			
705.	-17080	Scorpaena gasta			
706.	-16033	Scorpaena n. sp. A			
707.	-14266	Scorpaena n.sp.			Υ
708.		Scorpaena panda			
709.		Scorpaenodes steenei			
710. 711.		Selaginella gracillima (Tiny Clubmoss)			
711. 712.		Semnocarpa minuta Senecio pinnatifolius			
713.		Senecio pinnatifolius var. latilobus			
714.		Sericornis frontalis (White-browed Scrubwren)			
715.		Sericornis frontalis subsp. maculatus (White-browed Scrubwren)			
716.	-13514	Siganus fuscescens			
717.		Siganus fuscescens?			Υ
718.		Sillago ingenuua			
719.		Siloxerus humifusus (Procumbent Siloxerus)			
720. 721.		Simoselaps littoralis (West Coast Banded Snake) Siphamia cephalotes			
721. 722.		Siphonognathus radiatus			
723.		Sisymbrium orientale (Indian Hedge Mustard)	Υ		
724.		Sminthopsis crassicaudata (Fat-tailed Dunnart)			
725.	24109	Sminthopsis dolichura (Little long-tailed Dunnart)			
726.		Sminthopsis granulipes (White-tailed Dunnart)			
727.		Sminthopsis griseoventer (Grey-bellied Dunnart)	.,		
728. 729.		Solanum nigrum (Black Berry Nightshade) Solanum symonii	Υ		
123.	1031	Column Cymolii		THE	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic T Area	o Query
730.		Solieria robusta				
731.		Sonchus oleraceus (Common Sowthistle)	Υ			
732. 733.		Sowerbaea laxiflora (Purple Tassels) Sphaerolobium drummondii				
734.		Sphaerolobium medium				
735.		Spinifex longifolius (Beach Spinifex)				
736.	27301	Spongoclonium conspicuum				
737.	635	Sporobolus virginicus (Marine Couch)				
738.		Spratelloides robustus				
739.		Spyridia dasyoides				
740. 741.		Spyridia filamentosa Spyridium globulosum (Basket Bush)				
741.		Stackhousia monogyna				
743.		Stegastes obreptus				
744.	-17636	Stenella coeruleoalba				
745.	24522	Sterna bergii (Crested Tern)				
746.		Stictosporum nitophylloides				
747.		Stigmatopora sp.				
748.		Stirlingia abrotanoides				
749. 750.		Stirlingia latifolia (Blueboy) Streptopelia senegalensis (Laughing Turtle-Dove)	Υ			
751.		Strophurus spinigerus subsp. spinigerus				
752.		Stylidium crossocephalum (Posy Triggerplant)				
753.	25801	Stylidium hesperium				
754.		Stylidium rigidulum				
755.		Suaeda australis (Seablite)				
756.		Synaphea spinulosa subsp. spinulosa				
757. 758.		Synsphyronus callus Syntrichia antarctica				
759.		Tadorna tadornoides (Australian Shelduck, Mountain Duck)				
760.		Tarsipes rostratus (Honey Possum, Noolbenger)				
761.	-11729	Tasmanicosa leuckartii				
762.	33236	Tecticornia halocnemoides (Shrubby Samphire)				
763.		Tecticornia pergranulata subsp. pergranulata (Blackseed Samphire)				
764. 765.		Templetonia retusa (Cockies Tongues) Terapon jarbua				
765. 766.		Tersonia cyathiflora (Button Creeper)				
767.		Tetragonia decumbens (Sea Spinach)	Υ			
768.	2823	Tetragonia implexicoma (Bower Spinach)				
769.	-15823	Thalassoma lunare				
770.		Thomasia foliosa				
771.		Thomasia grandiflora (Large Flowered Thomasia) Threlkeldia diffusa (Coast Bonefruit)				
772. 773.		Threptomene baeckeacea				
774.		Thryptomene hyporhytis				
775.		Thuretia quercifolia				
776.	1338	Thysanotus manglesianus (Fringed Lily)				
777.	1343	Thysanotus patersonii				
778.		Thysanotus sparteus				
779.		Thysanotus triandrus Tiliqua occipitalis (Western Bluetonque)				
780. 781.		Tiliqua rugosa subsp. rugosa				
782.		Trachyandra divaricata	Υ			
783.		Trachymene pilosa (Native Parsnip)				
784.	1361	Tricoryne elatior (Yellow Autumn Lily)				
785.		Trifolium resupinatum var. resupinatum	Υ			
786.		Triglochin minutissima				
787.		Triglochin trichophora				
788. 789.		Triglochin trichophora Tripterococcus brunonis (Winged Stackhousia)				
790.		Trygonoptera ovalis				
791.		Turbinaria gracilis				
792.	8254	Urospermum picroides (False Hawkbit)	Υ			
793.		Urtica urens (Small Nettle)	Υ			
794.		Vachellia farnesiana (Mimosa Bush)	Υ			
795. 796.		Vanacampus margaritifer Varanus gouldii (Bungarra or Sand Monitor)				
790. 797.		Velleia trinervis				
798.		Verreauxia reinwardtii (Common Verreauxia)				
799.	12411	Verticordia densiflora var. cespitosa				
				Department of	of	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
800.	15432	Verticordia densiflora var. densiflora			
801.	12437	Verticordia laciniata			
802.	6103	Verticordia ovalifolia			
803.	27360	Vidalia spiralis			
804.	4325	Viminaria juncea (Swishbush, Koweda)			
805.	33101	Vulpia myuros forma myuros	Υ		
806.	7384	Wahlenbergia capensis (Cape Bluebell)	Υ		
807.	6939	Westringia dampieri			
808.	6659	Wilsonia humilis (Silky Wilsonia)			
809.	27364	Wollastoniella myriophylloides			
810.	1398	Wurmbea monantha			
811.	-17542	Zephyrichthys barryi			
812.	27373	Zonaria turneriana			
813.	25765	Zosterops lateralis (Grey-breasted White-eye, Silvereye)			
814.	24856	Zosterops lateralis subsp. gouldi (Grey-breasted White-eye)			
815.	4387	Zygophyllum billardierei (Coast Twinleaf)			
816.	4390	Zygophyllum fruticulosum (Shrubby Twinleaf)			
817.	12359	Zygophyllum simile			

- Conservation Codes

 1 Rare or likely to become extinct

 X Presumed extinct

 IA Protected under international agreement

 5 Other specially protected fauna

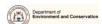
 1 Priority 1

 2 Priority 2

 3 Priority 4

 5 Priority 5

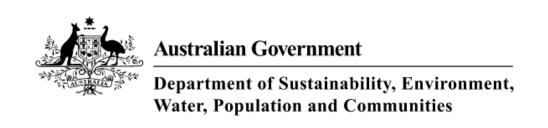
- ¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.





Appendix 2 EPBC Database Search Results

Database results for 1, 2 and 10km buffers



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 08/07/13 17:46:15

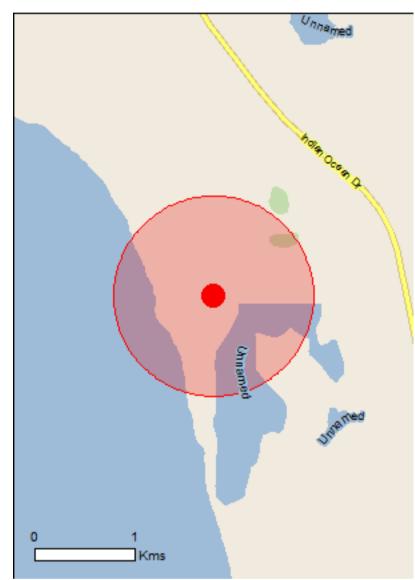
Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

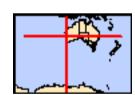
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 1.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	26
Listed Migratory Species:	28

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage-values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	47
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

Place on the RNE:	1
State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	17
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Beekeepers-Lesueur-Coomallo Area and Nambung National	WA	Nominated place
<u>Park</u>		

Listed Threatened Species		[Resource Information
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Calyptorhynchus latirostris		
Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat likely to occur within area
Diomedea exulans amsterdamensis		
Amsterdam Albatross [82330]	Endangered	Species or species habitat may occur within area
Diomedea exulans exulans		
Tristan Albatross [82337]	Endangered	Species or species habitat may occur within area
Diomedea exulans (sensu lato)		
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Leipoa ocellata</u> Malleefowl [934]	Vulnerable	Species or species
Maneerowi [934]	vuirierable	Species or species habitat may occur within area
Macronectes giganteus		
Southern Giant-Petrel [1060] Macronectes halli	Endangered	Species or species habitat may occur within area
Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Thalassarche cauta cauta Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species habitat may occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Neophoca cinerea Australian Sea-lion [22]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Parantechinus apicalis Dibbler [313]	Endangered	Species or species habitat may occur within area
Other		
Idiosoma nigrum Shield-backed Trapdoor Spider, Black Rugose Trapdoor Spider [66798]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Centrolepis caespitosa [6393]	Endangered	Species or species habitat may occur within area
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species habitat may occur within area
Hemiandra gardneri Red Snakebush [7945]	Endangered	Species or species habitat likely to occur within area
Isopogon uncinatus Hook-leaf Isopogon [20871]	Endangered	Species or species habitat may occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
Sharks Corphorize to ware (weet seed nonviolation)		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752] Carcharodon carcharias	Vulnerable	Species or species habitat may occur within area
Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on	the EPBC Act - Threatened	[Resource Information] d Species list.
Name	Threatened	Type of Presence
Migratory Marine Birds Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<u>Diomedea amsterdamensis</u> Amsterdam Albatross [64405]	Endangered*	Species or species habitat may occur within area
Diomedea dabbenena Tristan Albatross [66471]	Endangered*	Species or species habitat may occur within area
Diomedea exulans (sensu lato) Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Macronectes giganteus Southern Giant-Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
Sterna caspia Caspian Tern [59467]		Foraging, feeding or related behaviour known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Thalassarche cauta (sensu stricto) Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Migratory Marine Species Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area
Carcharodon carcharias Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763] Chelonia mydas	Endangered	Species or species habitat known to occur within area
Green Turtle [1765] Dermochelys coriacea	Vulnerable	Species or species habitat known to occur within area
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur

Name	Threatened	Type of Presence
		within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<u>Lagenorhynchus obscurus</u>		
Dusky Dolphin [43]		Species or species habitat may occur within area
<u>Lamna nasus</u>		
Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [50257]	Vulnerable	Species or species
Flatback Turtle [59257]	vuinerable	Species or species habitat known to occur within area
Orcinus orca		Charles or angeles
Killer Whale, Orca [46]		Species or species habitat may occur within area
Rhincodon typus		
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster		0
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Leipoa ocellata Mellosfowl [024]	Vulnerable	Chaoine or angoine
Malleefowl [934]	vuinerable	Species or species habitat may occur within area
Merops ornatus Poinbow Pool actor [670]		Chaoine or angoine
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Migratory Wetlands Species		
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Faret [50542]		Species or species
Cattle Egret [59542]		Species or species habitat may occur within area
Other Matters Protected by the EPBC Act		

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific	name on the EPBC Act - Threa	atened Species list.
Name	Threatened	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba		
Great Egret, White Egret [59541]		Species or species

Name	Threatened	Type of Presence
		habitat likely to occur
		within area
Ardea ibis		Charier exempsion
Cattle Egret [59542]		Species or species habitat may occur within
		area
Diomedea amsterdamensis		
Amsterdam Albatross [64405]	Endangered*	Species or species
		habitat may occur within
Diamadaa dahhanana		area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered*	Species or species
Tristan Albatross [66471]	Endangered*	Species or species habitat may occur within
		area
Diomedea exulans (sensu lato)		
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or
		related behaviour likely
Hallacatus lavos sestas		to occur within area
Haliaeetus leucogaster White halling See Fagle [042]		Charles or anadica
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur
		within area
<u>Larus pacificus</u>		William Grod
Pacific Gull [811]		Foraging, feeding or
		related behaviour known
Manager at a selection		to occur within area
Macronectes giganteus Southern Cient Detrol [4000]	Codengered	Charles ar anasias
Southern Giant-Petrel [1060]	Endangered	Species or species habitat may occur within
		area
Macronectes halli		
Northern Giant-Petrel [1061]	Vulnerable	Species or species
		habitat may occur within
Manager		area
Merops ornatus Reinhau Rea cater [670]		Charles or anasias
Rainbow Bee-eater [670]		Species or species habitat may occur within
		area
Pandion haliaetus		
Osprey [952]		Species or species
		habitat may occur within
Duffinus cosinellis		area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or
Little Shearwater [59505]		related behaviour known
		to occur within area
<u>Puffinus carneipes</u>		
Flesh-footed Shearwater, Fleshy-footed		Foraging, feeding or
Shearwater [1043]		related behaviour likely
Sterna caspia		to occur within area
Caspian Tern [59467]		Foraging, feeding or
		related behaviour known
		to occur within area
Sterna dougallii		
Roseate Tern [817]		Foraging, feeding or
		related behaviour likely to occur within area
Thalassarche cauta (sensu stricto)		to occur within area
Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species
		habitat may occur within
		area
Fish Acontropura quetrolo		
Acentronura australe Southorn Dyamy Pincherse [66195]		Species or species
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within
		area
Campichthys galei		
Gale's Pipefish [66191]		Species or species
		habitat may occur within
Choeroichthus suillus		area
<u>Choeroichthys suillus</u> Pig-snouted Pipefish [66198]		Species or species
ı iy ənəatəa i ipeliəli [00 lə0]		opoulos or spacies

Type of Presence Name **Threatened** habitat may occur within area Halicampus brocki Brock's Pipefish [66219] Species or species habitat may occur within area Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse Species or species [66234] habitat may occur within area Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse Species or species [66235] habitat may occur within area Hippocampus subelongatus West Australian Seahorse [66722] Species or species habitat may occur within area Lissocampus fatiloquus Prophet's Pipefish [66250] Species or species habitat may occur within area Maroubra perserrata Sawtooth Pipefish [66252] Species or species habitat may occur within area Mitotichthys meraculus Western Crested Pipefish [66259] Species or species habitat may occur within area Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264] Species or species habitat may occur within area Phycodurus eques Leafy Seadragon [66267] Species or species habitat may occur within area Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268] Species or species habitat may occur within area Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269] Species or species habitat may occur within Solegnathus lettiensis Species or species Gunther's Pipehorse, Indonesian Pipefish [66273] habitat may occur within area Stigmatopora argus Spotted Pipefish, Gulf Pipefish [66276] Species or species habitat may occur within area Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Species or species Pipefish [66277] habitat may occur within area Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Species or species Alligator Pipefish [66279] habitat may occur within area <u>Urocampus carinirostris</u> Hairy Pipefish [66282] Species or species habitat may occur within area Vanacampus margaritifer Mother-of-pearl Pipefish [66283] Species or species habitat may occur within area **Mammals** Arctocephalus forsteri New Zealand Fur-seal [20] Species or species

Name	Threatened	Type of Presence
		habitat may occur within
Nie autoria a la compania		area
Neophoca cinerea Australian Sea-lion [22]	Vulnerable	Foraging, feeding or related behaviour likely
Reptiles		to occur within area
Aipysurus pooleorum		
Shark Bay Seasnake [66061]		Species or species habitat may occur within area
Chalania mudas	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within
Balaenoptera edeni Bryde's Whale [35]		area Species or species habitat may occur within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species

Name	Status	Type of Presence
		habitat may occur within
Ctorollo ettenuete		area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [5	1]	Species or species
		habitat may occur within
		area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted		Species or species
Bottlenose Dolphin [68418]		habitat likely to occur
		within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species
		habitat may occur within
		area

Places on the RNE		[Resource Information]
Note that not all Indigenous sites may be listed.		
Name	State	Status
Natural		
Moore River to Murchison River Area	WA	Indicative Place
State and Territory Reserves		[Resource Information]
Name		State
Beekeepers		WA
Jurien Bay		WA
Invasive Species		[Resource Information]
W 1	(14/ 140)	'41 41 ' 4 1 1

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo

and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.		
Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Mammals		
Capra hircus		
Goat [2]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer		
Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Pabbit Furancan Pabbit [128]		Species or appeies
Rabbit, European Rabbit [128]		Species or species

Species or species habitat likely to occur

Name	Status	Type of Presence
Sus scrofa		within area
Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides		
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica		
Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris		
Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera		
Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Genista sp. X Genista monspessulana		
Broom [67538]		Species or species habitat may occur within area
Olea europaea		
Olive, Common Olive [9160]		Species or species habitat may occur within area
Prinus radiata Producto Pino Monterov Pino Incignio Pino Wilding		Species or appeies
Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Tamarix aphylla		
Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area

Coordinates

-30.2481 115.03991

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Department of Environment, Climate Change and Water, New South Wales
- -Department of Sustainability and Environment, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment and Natural Resources, South Australia
- -Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts
- -Environmental and Resource Management, Queensland
- -Department of Environment and Conservation, Western Australia
- -Department of the Environment, Climate Change, Energy and Water
- -Birds Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -SA Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Atherton and Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- -State Forests of NSW
- -Geoscience Australia
- -CSIRO
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

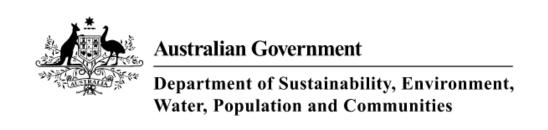
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EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 08/07/13 17:45:56

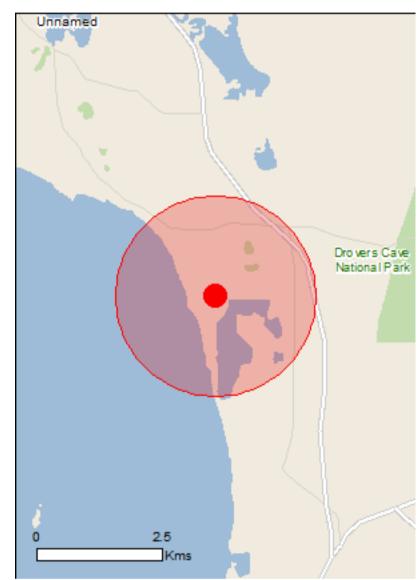
<u>Summary</u>

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

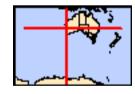
Caveat

Acknowledgements



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 2.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	28
Listed Migratory Species:	28

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage-values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	47
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves:	None

This part of the report provides information that may also be relevant to the area you have nominated.

Place on the RNE:	1
State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	17
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Beekeepers-Lesueur-Coomallo Area and Nambung National	WA	Nominated place
<u>Park</u>		

Listed Threatened Species		[Resource Information
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Calyptorhynchus latirostris		
Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat likely to occur within area
Diomedea exulans amsterdamensis		
Amsterdam Albatross [82330]	Endangered	Species or species habitat may occur within area
Diomedea exulans exulans		
Tristan Albatross [82337]	Endangered	Species or species habitat may occur within area
Diomedea exulans (sensu lato)		
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Leipoa ocellata Malloofowl [024]	Vulnerable	Species or species
Malleefowl [934]	vuirierable	Species or species habitat may occur within area
Macronectes giganteus		
Southern Giant-Petrel [1060] Macronectes halli	Endangered	Species or species habitat may occur within area
Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Sternula nereis nereis Australian Fairy Tern [82950] Thalassarche cauta cauta	Vulnerable	Species or species habitat may occur within area
Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species habitat may occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330] Eubalaena australis	Vulnerable	Species or species habitat likely to occur within area
Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Neophoca cinerea Australian Sea-lion [22]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Parantechinus apicalis Dibbler [313]	Endangered	Species or species habitat may occur within area
Other		
Idiosoma nigrum Shield-backed Trapdoor Spider, Black Rugose Trapdoor Spider [66798]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat may occur within area
Centrolepis caespitosa [6393]	Endangered	Species or species habitat may occur within area
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species habitat may occur within area
Hemiandra gardneri Red Snakebush [7945]	Endangered	Species or species habitat likely to occur within area
Isopogon uncinatus Hook-leaf Isopogon [20871]	Endangered	Species or species habitat may occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765] Dermochelys coriacea	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] Natator depressus	Endangered	Foraging, feeding or related behaviour known to occur within area
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sharks		

Name	Status	Type of Presence
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752] Carcharodon carcharias	Vulnerable	Species or species habitat may occur within area
Great White Shark [64470] Rhincodon typus	Vulnerable	Species or species habitat likely to occur within area
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on	the EPRC Act - Threatened	[Resource Information]
Name	Threatened	Type of Presence
Migratory Marine Birds		,
Apus pacificus Fork-tailed Swift [678] Diomedea amsterdamensis		Species or species habitat likely to occur within area
Amsterdam Albatross [64405]	Endangered*	Species or species habitat may occur within area
Diomedea dabbenena Tristan Albatross [66471]	Endangered*	Species or species habitat may occur within area
Diomedea exulans (sensu lato) Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Macronectes giganteus Southern Giant-Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
Sterna caspia Caspian Tern [59467] Sterna dougallii		Foraging, feeding or related behaviour known to occur within area
Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Thalassarche cauta (sensu stricto) Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Migratory Marine Species		
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Carebaredon carebarias		Species or species habitat may occur within area
Carcharodon carcharias Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known

Name	Threatened	Type of Presence
		to occur within area
<u>Chelonia mydas</u> Green Turtle [1765]	Vulnerable	Foraging, feeding or
Dormocholyo coriocco		related behaviour known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or
	C	related behaviour known to occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<u>Lagenorhynchus obscurus</u> Dusky Dolphin [43]		Species or species
		habitat may occur within area
Lamna nasus Porboaglo, Mackerel Shark [83288]		Species or species
Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Megaptera novaeangliae	Vulnarabla	Charles or anadica
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flotbook Turtle [50257]	Vulnorable	Forgaina fooding or
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Orcinus orca		Charies or anasias
Killer Whale, Orca [46]		Species or species habitat may occur within area
Rhincodon typus Whole Shork [66690]	Vulnorable	Species or appoins
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster		0
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Leipoa ocellata Malla four 102.41	Vulnarahla	Charles or anasias
Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Painbow Rec-eater [670]		Species or species
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Migratory Wetlands Species		
Ardea alba Croot Egrot White Egrot [50541]		Species or appoins
Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species
Cattle Egret [59542]		Species or species habitat may occur within area

area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information
* Species is listed under a different scientific name on	the EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat likely to occur
Ardon ibis		within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Diomedea amsterdamensis		
Amsterdam Albatross [64405] Diomedea dabbenena	Endangered*	Species or species habitat may occur within area
Tristan Albatross [66471]	Endangered*	Species or species habitat may occur within area
Diomedea exulans (sensu lato)		aroa
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Larus pacificus Pacific Gull [811]		Foraging, feeding or
		related behaviour known to occur within area
Macronectes giganteus Southern Giant-Petrel [1060]	Endangered	Species or species
Macronectes halli	Litadingorod	habitat may occur within area
Northern Giant-Petrel [1061]	Vulnerable	Species or species
Merops ornatus		habitat may occur within area
Rainbow Bee-eater [670]		Species or species habitat may occur within
Pandion haliaetus		area
Osprey [952]		Species or species habitat likely to occur within area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
Puffinus carneipes Flesh-footed Shearwater Fleshy-footed		Forgaina feeding or
Flesh-footed Shearwater, Fleshy-footed Shearwater [1043] Sterna caspia		Foraging, feeding or related behaviour likely to occur within area
Caspian Tern [59467]		Foraging, feeding or
		related behaviour known

Name	Threatened	Type of Presence
		to occur within area
Sterna dougallii		Caracina fooding or
Roseate Tern [817]		Foraging, feeding or related behaviour likely
		to occur within area
Thalassarche cauta (sensu stricto) Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Fish		aroa
Acentronura australe		
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
Campichthys galei Gale's Pipefish [66191]		Species or species
		habitat may occur within area
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species
		habitat may occur within area
Halicampus brocki Brock's Pipefish [66219]		Species or species
		habitat may occur within area
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse		Species or species
[66234]		habitat may occur within area
Hippocampus breviceps Short hood Sochores, Short spouted Sochores		Species or species
Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
Hippocampus subelongatus		
West Australian Seahorse [66722]		Species or species habitat may occur within area
<u>Lissocampus fatiloquus</u> Prophet's Pipefish [66250]		Species or species
		habitat may occur within area
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species
		habitat may occur within area
Mitotichthys meraculus Western Crested Pipefish [66259]		Species or species
		habitat may occur within area
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species
		habitat may occur within area
Phycodurus eques Leafy Seadragon [66267]		Species or species
		habitat may occur within area
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]		Species or species
Pugnaso curtirostris		habitat may occur within area
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Stigmatopora argus Spottad Dipofiah Culf Dipofiah (66276)		Charles ar anasiss
Spotted Pipefish, Gulf Pipefish [66276]		Species or species habitat may occur within

Name	Threatened	Type of Presence
		area
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within
<u>Urocampus carinirostris</u>		area
Hairy Pipefish [66282]		Species or species habitat may occur within area
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
Mammals		
Arctocephalus forsteri New Zealand Fur-seal [20]		Species or species habitat may occur within area
Neophoca cinerea	\/ln a rable	
Australian Sea-lion [22]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Reptiles Ainventus poologrum		
Aipysurus pooleorum Shark Bay Seasnake [66061]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35] Caperea marginata		Species or species habitat may occur within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area

Name	Status	Type of Presence
<u>Delphinus delphis</u>		
Common Dophin, Short-beaked Common		Species or species
Dolphin [60]		habitat may occur within
		area
Eubalaena australis		S. S. S.
Southern Right Whale [40]	Endangered	Species or species
Country rught virtues [10]		habitat likely to occur
		within area
Grampus griseus		Within area
Risso's Dolphin, Grampus [64]		Species or species
Nisso's Dolphin, Grampus [04]		habitat may occur within
		-
<u>Lagenorhynchus obscurus</u>		area
		Charles ar anasias
Dusky Dolphin [43]		Species or species
		habitat may occur within
Magantara navasanglias		area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species
		habitat known to occur
		within area
<u>Orcinus orca</u>		
Killer Whale, Orca [46]		Species or species
		habitat may occur within
		area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species
		habitat may occur within
		area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted		Species or species
Bottlenose Dolphin [68418]		habitat likely to occur
· · · · · · · · · · · · · · · · · · ·		within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		habitat may occur within
		area

Places on the RNE		[Resource Information]
Note that not all Indigenous sites may be listed.		
Name	State	Status
Natural		
Moore River to Murchison River Area	WA	Indicative Place
State and Territory Reserves		[Resource Information]
Name		State
Beekeepers		WA
Jurien Bay		WA

Invasive Species [Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species

Name	Status	Type of Presence
		habitat likely to occur within area
Mammals		
Capra hircus		
Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120] Oryctolagus cuniculus		Species or species habitat likely to occur within area
, ,		Species or appeies
Rabbit, European Rabbit [128] Sus scrofa		Species or species habitat likely to occur within area
Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides		
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica		
Para Grass [5879] Cenchrus ciliaris		Species or species habitat may occur within area
Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within
		area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Genista sp. X Genista monspessulana		aroa
Broom [67538]		Species or species habitat may occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area

Coordinates

-30.24813 115.03978

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Department of Environment, Climate Change and Water, New South Wales
- -Department of Sustainability and Environment, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment and Natural Resources, South Australia
- -Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts
- -Environmental and Resource Management, Queensland
- -Department of Environment and Conservation, Western Australia
- -Department of the Environment, Climate Change, Energy and Water
- -Birds Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -SA Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Atherton and Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- -State Forests of NSW
- -Geoscience Australia
- -CSIRO
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

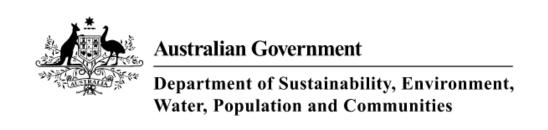
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EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

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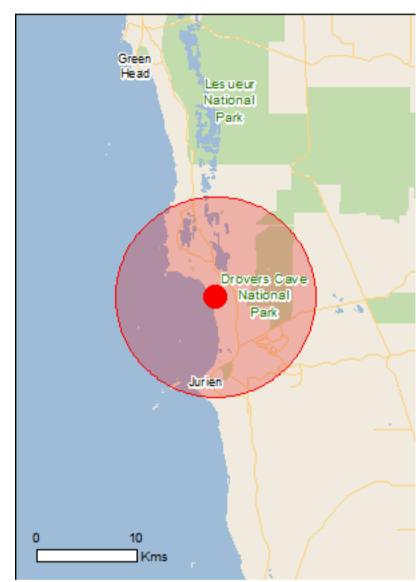
Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

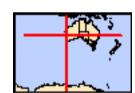
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 10.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	42
Listed Migratory Species:	33

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage-values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	58
Whales and Other Cetaceans:	13
Critical Habitats:	None
Commonwealth Reserves:	None

This part of the report provides information that may also be relevant to the area you have nominated.

Place on the RNE:	4
State and Territory Reserves:	9
Regional Forest Agreements:	None
Invasive Species:	17
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Beekeepers-Lesueur-Coomallo Area and Nambung National	WA	Nominated place
Park		

Listed Threatened Species		[Resource Information
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Calyptorhynchus latirostris		
Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat likely to occur within area
Diomedea exulans amsterdamensis		
Amsterdam Albatross [82330]	Endangered	Species or species habitat may occur within area
Diomedea exulans exulans		
Tristan Albatross [82337]	Endangered	Species or species habitat may occur within area
Diomedea exulans (sensu lato)		
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Leipoa ocellata Mellosfowl [024]	Vulnarabla	Charles or anadica
Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Macronectes giganteus		
Southern Giant-Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli		
Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Pterodroma mollis Soft-plumaged Petrel [1036] Sternula nereis nereis	Vulnerable	Species or species habitat may occur within area
Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta cauta Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Neophoca cinerea Australian Sea-lion [22]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Parantechinus apicalis Dibbler [313]	Endangered	Species or species habitat known to occur within area
Other		
Idiosoma nigrum Shield-backed Trapdoor Spider, Black Rugose Trapdoor Spider [66798]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat likely to occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat may occur within area
Centrolepis caespitosa [6393]	Endangered	Species or species habitat may occur within area
Darwinia foetida Muchea Bell [83190]	Critically Endangered	Species or species habitat likely to occur within area
<u>Drakaea elastica</u> Glossy-leafed Hammer-orchid, Praying Virgin	Endangered	Species or species

Name	Status	Type of Presence
[16753]		habitat may occur within
Eucalyptus balanites		area
Cadda Road Mallee, Cadda Mallee [24264]	Endangered	Species or species habitat may occur within area
Eucalyptus impensa		
Eneabba Mallee [56711]	Endangered	Species or species habitat may occur within area
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species
Christine's Grevillea [64520]	Endangered	Species or species habitat may occur within area
Grevillea humifusa Spreading Cravillea [61192]	Endangarad	Species or appoins
Spreading Grevillea [61182]	Endangered	Species or species habitat may occur within area
Hemiandra gardneri Pod Spakobush [7945]	Endangered	Species or species
Red Snakebush [7945]	Endangered	Species or species habitat likely to occur within area
Isopogon uncinatus	Endangered	Charles or anadica
Hook-leaf Isopogon [20871]	Endangered	Species or species habitat may occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species
· ·	Liluangereu	habitat likely to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas	\/	
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Ctenotus lancelini Lancelin Island Skink [1482]	Vulnerable	Translocated population
		known to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Liopholis pulchra longicauda		
Jurien Bay Skink, Jurien Bay Rock-skink [83162] Natator depressus	Vulnerable	Roosting known to occur within area
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or
		related behaviour known to occur within area
Sharks		to occur within area
Carcharias taurus (west coast population)		
Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat may occur within area
Carcharodon carcharias		
Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species
	Valitorable	habitat may occur within area
Listed Migratory Species		[Resource Information
* Species is listed under a different scientific name or		
Name Missators Masico Bindo	Threatened	Type of Presence
Migratory Marine Birds		

Name	Threatened	Type of Presence
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<u>Diomedea amsterdamensis</u>		
Amsterdam Albatross [64405]	Endangered*	Species or species habitat may occur within area
<u>Diomedea dabbenena</u>		
Tristan Albatross [66471]	Endangered*	Species or species habitat may occur within area
Diomedea exulans (sensu lato)		
Wandering Albatross [1073]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Macronectes giganteus		
Southern Giant-Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli		
Northern Giant-Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Puffinus carneipes		
Flesh-footed Shearwater, Fleshy-footed Shearwater [1043] Puffinus pacificus		Foraging, feeding or related behaviour likely to occur within area
•		Prooding known to coour
Wedge-tailed Shearwater [1027] Sterna anaethetus		Breeding known to occur within area
		Prooding known to occur
Sterna caspia		Breeding known to occur within area
•		Prooding known to occur
Caspian Tern [59467]		Breeding known to occur within area
Sterna dougallii		
Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Thalassarche carteri	Mala analda	English of Conditions on
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta (sensu stricto) Shy Albetrose Teamanian Shy Albetrose [64607]	\/ulparabla*	Species or species
Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Thalassarche melanophris		
Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat may occur within area
Caperea marginata		Omasia a sana i
Pygmy Right Whale [39]		Species or species habitat may occur within area
Carcharodon carcharias Great White Shark [64470]	Vulnerable	Species or species
Great White Shark [64470] Caretta caretta	vuirierable	Species or species habitat likely to occur within area
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or
	Lindarigorod	related behaviour known

Name	Threatened	Type of Presence
		to occur within area
<u>Chelonia mydas</u> Green Turtle [1765]	Vulnerable	Foraging, feeding or
		related behaviour known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or
		related behaviour known to occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<u>Lagenorhynchus obscurus</u> Dusky Dolphin [43]		Species or species
		habitat may occur within area
Lamna nasus Porboaglo, Mackerel Shark [93299]		Species or species
Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Megaptera novaeangliae	Vulnarabla	Charles or angeles
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flotback Turtle [50257]	Vulnoroblo	Foreging fooding or
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Orcinus orca		On a sing on an arian
Killer Whale, Orca [46]		Species or species habitat may occur within area
Rhincodon typus Whole Shork [66690]	Vulnoroblo	Chaoine or angoine
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster		Charina ar angaina
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Leipoa ocellata Malla four 10241	Vulnarabla	Charina ar angaine
Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Ros cator [670]		Species or appoins
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Migratory Wetlands Species		
Ardea alba Great Egret White Egret [50541]		Species or species
Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species
Cattle Egret [59542]		Species or species habitat may occur within area

area

Other Matters Protected by the EPBC Act

[Resource Information] Commonwealth Land

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name

Commonwealth Land -

[Resource Information] **Listed Marine Species** * Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Threatened

Name Birds

Anous tenuirostris melanops

Australian Lesser Noddy [26000] Vulnerable Species or species

habitat may occur within

Type of Presence

area

Apus pacificus

Fork-tailed Swift [678] Species or species

habitat likely to occur

within area

Great Egret, White Egret [59541]

Species or species

habitat likely to occur

within area

Ardea ibis

Ardea alba

Cattle Egret [59542] Species or species

habitat may occur within

area

Catharacta skua

Great Skua [59472] Species or species

habitat may occur within

area

Diomedea amsterdamensis

Amsterdam Albatross [64405] Endangered* Species or species

habitat may occur within

area

Diomedea dabbenena

Tristan Albatross [66471] Endangered* Species or species

habitat may occur within

area

Diomedea exulans (sensu lato)

Wandering Albatross [1073] Vulnerable Foraging, feeding or related behaviour likely

to occur within area

Haliaeetus leucogaster

Larus novaehollandiae

White-bellied Sea-Eagle [943] Species or species

habitat likely to occur

within area

Silver Gull [810] Breeding known to occur

within area

Larus pacificus Pacific Gull [811] Breeding known to occur

within area

Macronectes giganteus Southern Giant-Petrel [1060] Endangered Species or species

habitat may occur within

area

Macronectes halli

Northern Giant-Petrel [1061] Vulnerable Species or species

habitat may occur within

area

Merops ornatus

Rainbow Bee-eater [670] Species or species

habitat may occur within

area

Pandion haliaetus

Osprey [952] Breeding known to occur

Name	Threatened	Type of Presence
		within area
Pelagodroma marina White-faced Storm-Petrel [1016]		Breeding known to occur within area
Pterodroma mollis		within area
Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Puffinus assimilis Little Shearwater [59363]		Breeding known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
Puffinus pacificus Wedge-tailed Shearwater [1027]		Breeding known to occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bergii Crested Tern [816]		Breeding known to occur within area
Sterna caspia Caspian Tern [59467]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Sterna fuscata Sooty Tern [794]		Breeding known to occur within area
Sterna nereis Fairy Tern [796]		Breeding known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta (sensu stricto) Shy Albatross, Tasmanian Shy Albatross [64697]	Vulnerable*	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within
Fish		area
Acentronura australe		
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
Campichthys galei Gale's Pipefish [66191]		Species or species habitat may occur within
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species
Halicampus brocki		habitat may occur within area
Brock's Pipefish [66219] Hippocampus angustus		Species or species habitat may occur within area
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse		Species or species

Name **Threatened** Type of Presence habitat may occur within [66235] area Hippocampus subelongatus West Australian Seahorse [66722] Species or species habitat may occur within area Lissocampus fatiloquus Prophet's Pipefish [66250] Species or species habitat may occur within area Maroubra perserrata Sawtooth Pipefish [66252] Species or species habitat may occur within area Mitotichthys meraculus Western Crested Pipefish [66259] Species or species habitat may occur within area Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264] Species or species habitat may occur within area Phycodurus eques Leafy Seadragon [66267] Species or species habitat may occur within area Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268] Species or species habitat may occur within area Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269] Species or species habitat may occur within area Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273] Species or species habitat may occur within area Stigmatopora argus Spotted Pipefish, Gulf Pipefish [66276] Species or species habitat may occur within area Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Species or species **Pipefish** [66277] habitat may occur within Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Species or species Alligator Pipefish [66279] habitat may occur within area <u>Urocampus carinirostris</u> Hairy Pipefish [66282] Species or species habitat may occur within area Vanacampus margaritifer Mother-of-pearl Pipefish [66283] Species or species habitat may occur within area Mammals Arctocephalus forsteri New Zealand Fur-seal [20] Species or species habitat may occur within area Neophoca cinerea Australian Sea-lion [22] Vulnerable Foraging, feeding or related behaviour likely to occur within area Reptiles Aipysurus pooleorum Shark Bay Seasnake [66061] Species or species habitat may occur within area

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Name	Status	Type of Presence
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted		Species or species
Bottlenose Dolphin [68418]		habitat likely to occur
		within area
<u>Tursiops truncatus s. str.</u>		
Bottlenose Dolphin [68417]		Species or species
		habitat may occur within
		area

Feral deer

Feral deer species in Australia [85733]

Extra Information		
Places on the RNE		[Resource Information]
Note that not all Indigenous sites may be listed.		
Name	State	Status
Natural		
Moore River to Murchison River Area	WA	Indicative Place
Drovers Cave National Park	WA	Registered
Islands between Dongara and Lancelin	WA	Registered
Historic		
<u>Lubra Shipwreck</u>	WA	Indicative Place
State and Territory Reserves		[Resource Information]
Name		State
Beekeepers		WA
Boullanger, Whitlock, Favourite, Tern & Osprey Islands		WA
Drovers Cave		WA
Jurien Bay		WA
Lesueur		WA
Sandland Islands		WA
Unnamed WA11883		WA
Unnamed WA43786		WA
Unnamed WA48717		WA
Invasive Species		[Resource Information]
Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.		
Name 9	Status	Type of Presence

2001.	rational Zana and Trator i	toocaooo / taan,
Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Mammals		
Capra hircus		
Goat [2]		Species or species habitat likely to occur within area
<u>Felis catus</u>		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Name	Status	Type of Presence
Mus musculus		
House Mouse [120] Oryctolagus cuniculus		Species or species habitat likely to occur within area
Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
<u>Vulpes vulpes</u>		within area
Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides		
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica		
Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera		
Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Genista sp. X Genista monspessulana		
Broom [67538]		Species or species habitat may occur within area
Olea europaea		
Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wildir Pine [20780]	ıg	Species or species habitat may occur within
Tamarix aphylla		area
Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]	,	Species or species habitat likely to occur within area

Coordinates

-30.24806 115.03987

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Department of Environment, Climate Change and Water, New South Wales
- -Department of Sustainability and Environment, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment and Natural Resources, South Australia
- -Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts
- -Environmental and Resource Management, Queensland
- -Department of Environment and Conservation, Western Australia
- -Department of the Environment, Climate Change, Energy and Water
- -Birds Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -SA Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Atherton and Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- -State Forests of NSW
- -Geoscience Australia
- -CSIRO
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

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