

Bray-Curtis dissimilarity analysis was used to refine the vegetation associations identified during the vegetation survey and to assist in identification of uncommon vegetation types.

3.3.5.1 Species Accumulation Curve

A species-area curve based on a species accumulation analysis, was used to evaluate the adequacy of sampling (Colwell, 2005). The asymptotic value was determined using Michaelis-Menten modelling.

3.3.6 Vegetation Unit and Condition Mapping

Broad vegetation and condition mapping was conducted in the field, with boundaries delineated over aerial photography, at a scale of 1:5,000. Broad vegetation units were refined based on taxonomic identification of flora collections, statistical analysis of data collected from the quadrats and mapping notes taken during the field survey. Vegetation condition mapping was refined based on site data and mapping notes. Finalised polygons were digitised and produced as electronic mapping data using GIS software.

3.4 Vertebrate Fauna

3.4.1 Daily Survey Conditions

Survey conditions for the basic fauna survey are presented in Table 6. Daily temperature and rainfall data is from the Onslow Airport Weather Station (Station 5017) (Bureau of Meteorology, 2021). This information is important for potential detection of species diversity during a survey.

Table 6: Detailed Fauna Survey Weather Conditions

Date	Temperature (°C)		Rainfall (mm)
	Min	Max	
19/07/2021	13.2	27.3	0
20/07/2021	15.1	26.6	0.2

3.4.2 Fauna Habitat Assessment

Fauna habitat assessments were undertaken throughout the Survey Area to identify fauna habitat values. Habitat assessment locations are shown in Figure 1. The following information was collected at each site using Fulcrum, a mobile data collection app:

- Site photo
- Landform
- Soil type and colour
- Rock types, surface stone cover and size classes
- Key habitat and microhabitat features including leaf litter, logs, burrows, rocky outcrops, rock crevices, hollows, water sources
- Habitat quality, fire history and evidence of disturbance
- General description of vegetation structure.

Fauna habitat mapping was based on a combination of field observations, fauna habitat assessment data and vegetation mapping undertaken by 360 Environmental.

3.4.3 Opportunistic Observations and Active Searches

Opportunistic observations of fauna were recorded throughout the Survey Area. Observations of primary evidence (direct sightings, calls) and secondary evidence (tracks, scats, diggings etc.) were recorded. Active searches were undertaken in microhabitats likely to contain fauna. They primarily involved raking leaf litter, peeling bark, and splitting dead wood.

3.4.4 Bird Surveys

Systematic bird surveys were undertaken within the Survey Area for 20 minutes in a 2 ha quadrat (Environmental Protection Authority, 2016b) at each fauna habitat assessment location. Where practicable, this was undertaken during typical peak periods of activity when birds are calling and moving about, which is typically within 3-4 hours of sunrise, particularly during warmer periods.

3.4.5 Identification and Taxonomy

Terrestrial vertebrate fauna taxa were identified in the field and released on site.

Where there was doubt on a species name (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the 2021 WA Museum checklist (Western Australian Museum, 2021) where relevant.

4 Results

4.1 Limitations

Limitations and constraints of the flora, vegetation and fauna survey are detailed below in Table 7. No limitations were identified the assessment, as such the data is sufficient to inform impact assessment for across the Survey Area.

Table 7: Limitations and Constraints Associated with the Survey

Variable	Impact on assessment	Potential Constraints on Survey Outcomes
Survey Scope	Not a constraint	Number of species recorded, number of quadrats sampled, and timing of the survey were adequate for this level of survey. A basic vertebrate fauna survey was undertaken. This involved fauna habitat assessments, active searches for mammal and reptile species, opportunistic records and bird surveys in accordance with EPA (2016b).
Availability of Data	Not a constraint	All data required to complete the scope of works including regional and local contextual information was available.
Site Access	Not a constraint	The entire Survey Area was able to be accessed on foot.
Survey Intensity and Resources	Not a constraint	Sufficient time was allocated to the flora and vegetation survey, given the size and complexity of the Survey Area, and the expected level of survey intensity. The survey effort was considered adequate to assess the flora and vegetation values of the Survey Area and provide information required to support approvals applications. The basic fauna survey consisted of six fauna habitat assessments, six 20 min bird surveys, three hours of active searching and opportunistic records.
Experience	Not a constraint	The Detailed Flora and Vegetation Survey and Basic Fauna Survey were undertaken by Senior Botanist Jason Webb and Ecologist Poppy Walker. Jason has 5 years' experience conducting surveys of similar scope throughout Western Australia. Poppy has worked as an environmental consultant for 1 year and has completed flora, vegetation, and fauna surveys state-wide. Identification of flora collections was completed by experienced taxonomist Udani Sirisena at the WAH.
Timing, weather, season	Not a constraint	The recommended primary survey period for the Eremaean Botanical Province as per the EPA Technical Guidance, i.e. 6-8 weeks post wet season (March to June) (Environmental Protection Authority, 2016a). The field assessment was conducted in July 2021 following above average rainfall in May (6-8 weeks prior to the survey), therefore timing is not considered to be a limitation of the survey. Rainfall was above average for

Variable	Impact on assessment	Potential Constraints on Survey Outcomes
		the year and sufficient to allow for many genera to be in flower.
Life Forms Sampled	Not a constraint	The Survey Area was traversed on foot and representative sites of all remnant vegetation was sampled. All flora species encountered within the Survey Area were recorded. The basic vertebrate fauna survey used a wide range of detection techniques to detect fauna taxa within the Survey Area. All vertebrate fauna species were readily identified in the field.
Mapping Reliability	Not a constraint	Vegetation types were described and mapped based on quadrat data taken during the field survey. High resolution aerial mapping current at the time of the survey was used to differentiate all vegetation greater than 1 ha in size. The greatest effort was expended ground truthing vegetation boundaries within and near the proposed development footprint. Fauna habitat mapping was based largely on vegetation mapping and there were no constraints on mapping reliability.
Disturbances (fire, flood etc.)	Not a constraint	No disturbances to the Survey Area was observed.
Completeness	Not a constraint	The survey was considered complete for a Detailed Flora and Vegetation Survey, all vegetation types were surveyed and delineated within the Survey Area and a minimum of three quadrats was surveyed for each vegetation type.

4.2 Flora and Vegetation

4.2.1 Literature Review

The key findings of the flora and vegetation reports reviewed are summarised in Appendix B.

4.2.2 Database Searches

Database searches identified nine conservation significant flora species occurring within 50 km of the Survey Area (Appendix B), comprising:

- No Threatened species
- Three Priority 1 species
- No Priority 2 species
- Six Priority 3 species
- No Priority 4 species.

No State or Commonwealth listed TECs were identified within the Survey Area by the database searches. The State listed PEC Peedamulla (Cane River) Swamp Community occurs 24 km east of the Survey Area, however its listing category has not been evaluated (Department of Biodiversity Conservation and Attractions, 2021b) (Figure 5).

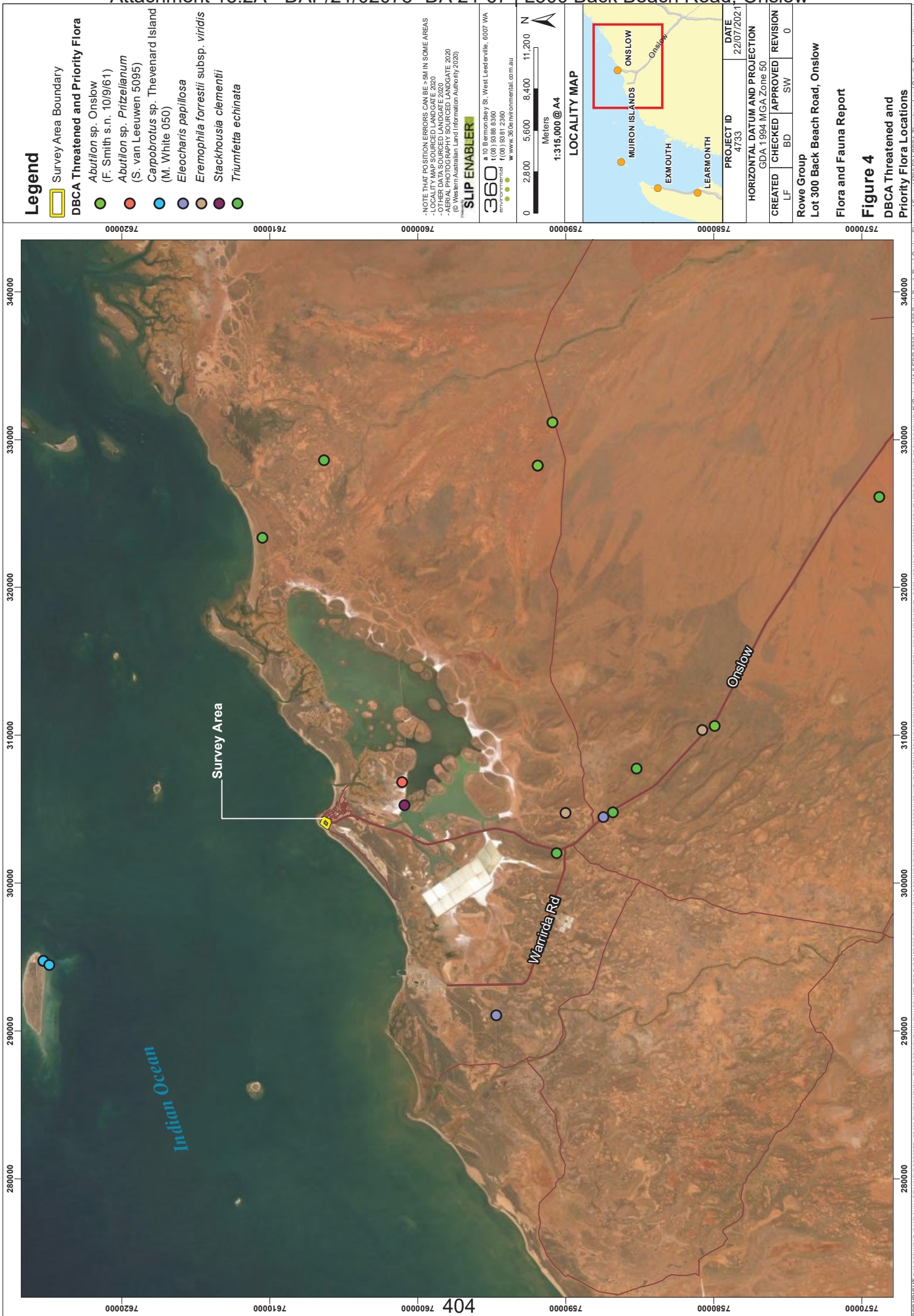
4.2.3 Pre-Survey Likelihood of Occurrence

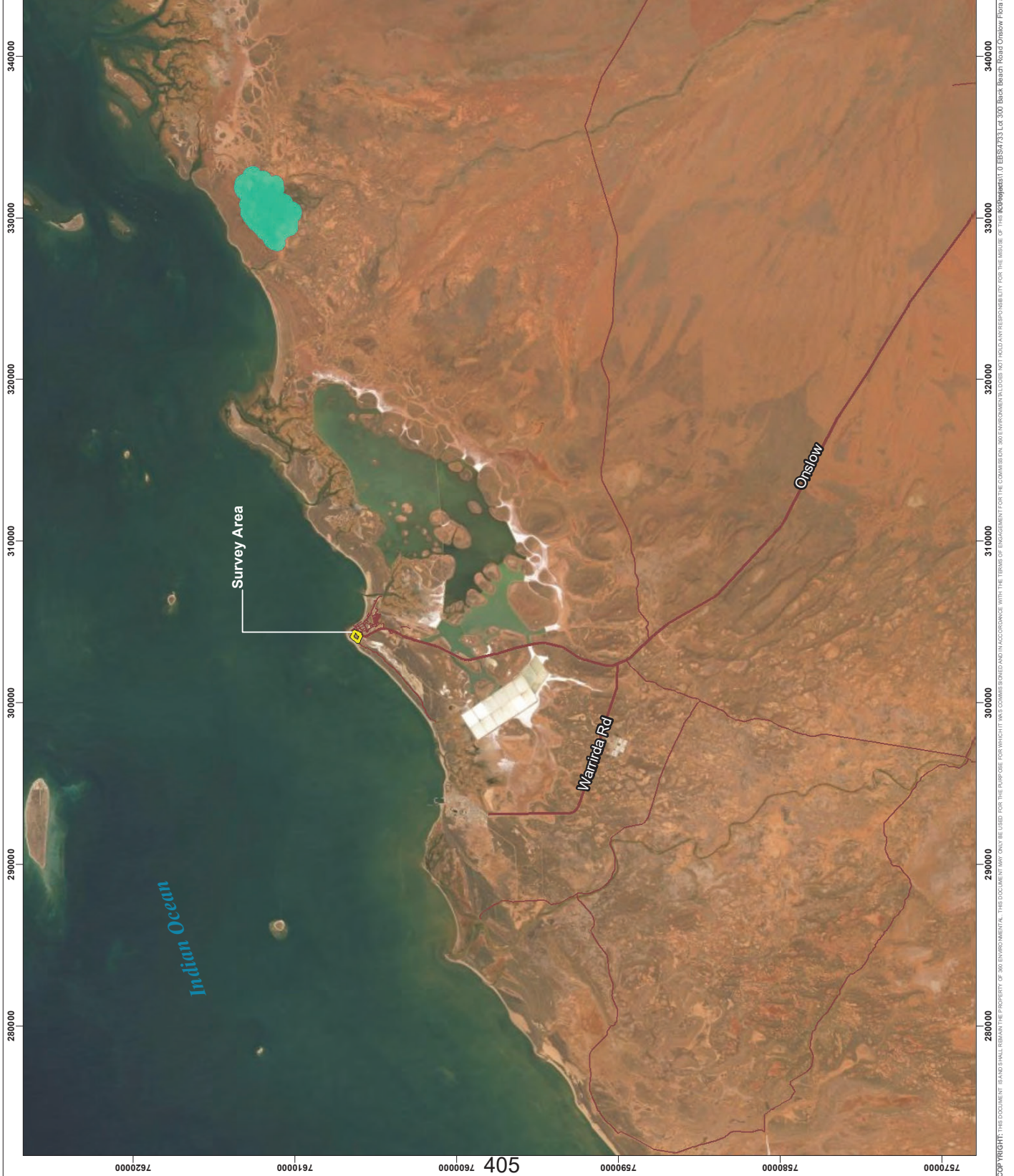
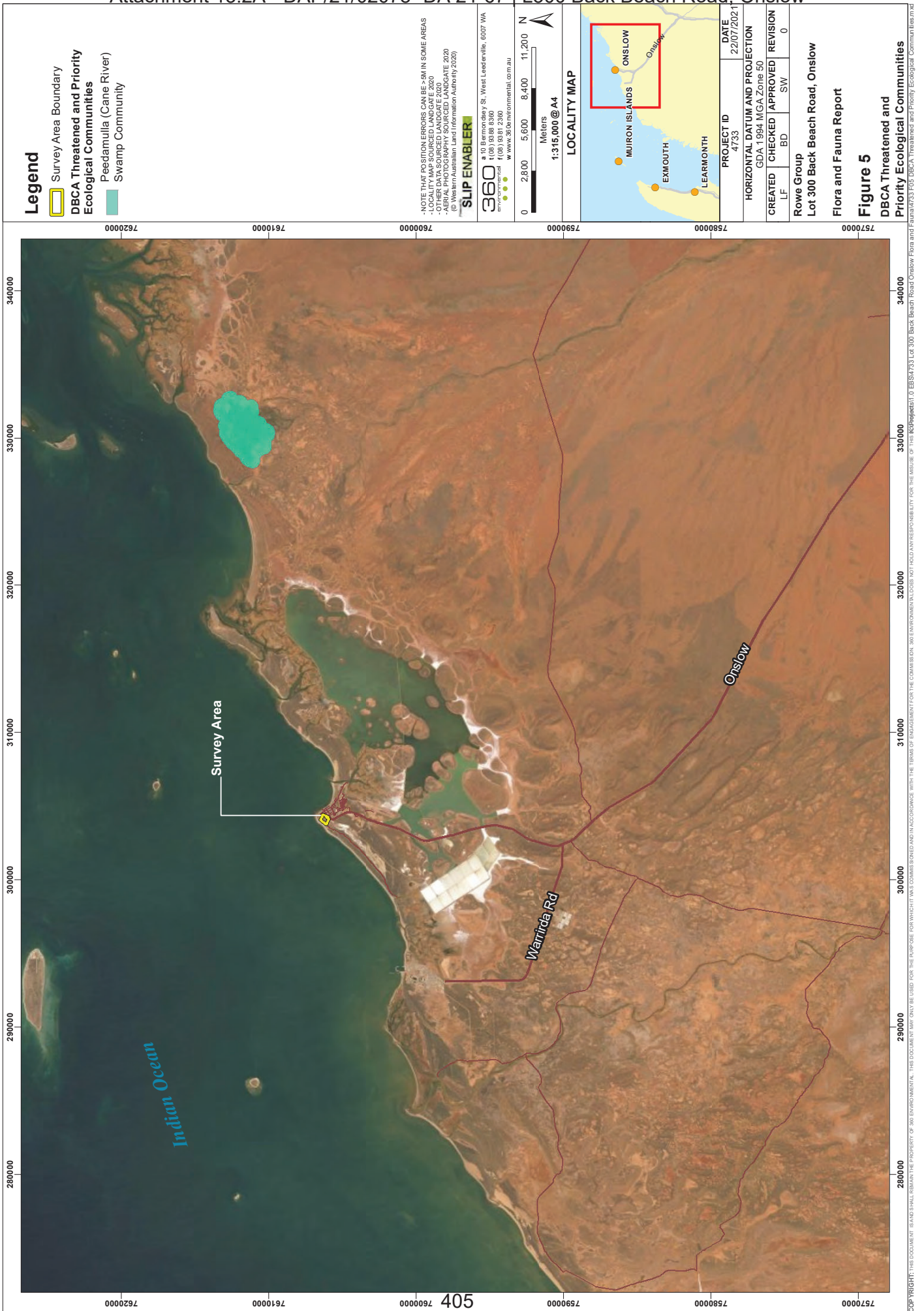
The pre-survey likelihood of occurrence assessment identified that of the nine conservation significant flora species identified by the desktop assessment:

- No Threaten or Priority Listed Flora have been recorded within the Survey Area
- Two taxa were considered to have a high likelihood of occurrence based on habitat preference
- Three were considered to have a medium likelihood of occurrence based on habitat preference
- Four were considered to have a low likelihood of occurrence based on habitat preference.

An additional 30 species were identified by the literature review; however, these were not included in the flora likelihood assessment as all were considered highly unlikely to occur within the Survey Area.

The likelihood of occurrence assessment is provided in Appendix C.





Legend

- Survey Area Boundary
- DBCA Threatened and Priority Ecological Communities
- Peedamulla (Cane River) Swamp Community

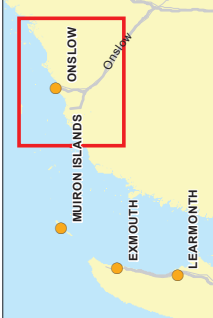
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Figure 5

DBCA Threatened and Priority Ecological Communities

4.2.4 Flora Composition

The survey recorded a total of 33 taxa from 15 genera across 13 families (refer to Appendix D for full species list). The dominant families were Fabaceae (seven species, 24% of all taxa), Poaceae (five species, 17 % of all taxa) and Chenopodiaceae (three species, 10% of all taxa).

One species was not be able to be positively identified and has been tentatively listed as ?*Flueggea virosa*. Additionally, two *Tephrosia* collections were not able to be positively identified due to species due to variability with the morphology based on the WAH reference collection. None of these taxa resemble any potentially occurring Threatened and Priority Flora, or flora of Conservation significance.

4.2.5 Flora of Conservation Significance

4.2.5.1 Threatened or Priority Flora

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened pursuant to the BC Act 2016 were recorded during the survey.

No DBCA listed Priority flora species were recorded within the Survey Area.

4.2.5.2 Flora of Other Conservation Significance

Flora may be considered of other conservation significance if it represents a range extension, novel taxon, species that play a keystone role in a community, has relic status, is locally endemic, or represents the extent of a species range.

No taxa recorded within the Survey Area was considered to be of other conservation significance.

4.2.6 Introduced Flora

Four introduced species were recorded within the Survey Area, representing 10% of the total taxa recorded (Appendix D). one of these, **Tamarix aphylla*, are listed as Declared Pests under the BAM Act (Department of Primary Industries and Regional Development, 2018) and WoNS (Department of Agriculture Water and the Environment, 2020b). (Table 8).

Table 8: Introduced Flora Species within the Survey Area

Species	Common Name	Environmental Status	WONS
<i>*Cenchrus ciliaris</i>	Buffel Grass		Not Listed
<i>*Aerva javanica</i>	Kapok Bush		Not Listed
<i>*Tamarix aphylla</i>	Athel Pine	Declared Pest – (DPIRD)	Listed
<i>*Washingtonia filifera</i>	California Palm		Not Listed

4.2.7 Vegetation Types

Within the Survey Area, one vegetation type was described and mapped across one broad landform (low coastal dune systems with mixed laterite sands) within the Survey Area. The vegetation units are described in Table 9 and mapped in Figure 7. Detailed site sheets for each quadrat are provided in Appendix E.

The vegetation within the Survey Area, VT1, was described as *Acacia coriacea* subsp. *coriacea* and *Acacia tetragonophylla* (with *Crotalaria cunninghamii* subsp. *sturtii*) mid to low sparse shrubland over **Cenchrus ciliaris* and *Eulalia aurea* low tussock grassland with *Triodia epactia* low sparse hummock grassland over *Euphorbia myrtiloides* low sparse herbland.

Bray-Curtis dissimilarity analysis indicated one quadrat falls outside the main grouping (Figure 6). Quadrat 6 contains two unique native species; *Nicotiana occidentalis* subsp. *occidentalis* and *Salsola australis*. Additionally, Quadrat 1 contained three species that are not representative of the wider ecology. *Eucalyptus camaldulensis*, **Tamarix aphylla* and **Washingtonia filifera* were not found anywhere else with the survey area. As these taxa are not representative of the wider floristic communities, they may be considered to be planted species and were therefore removed from the analysis.

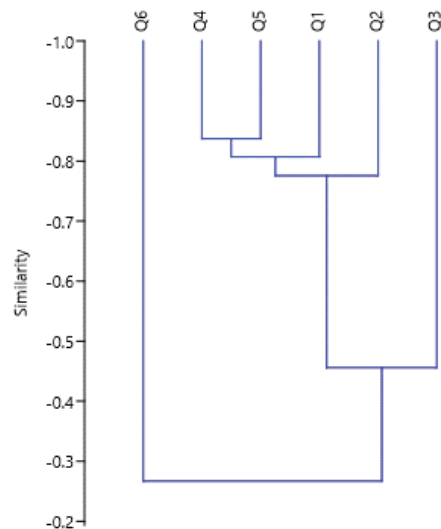


Figure 6: Results of Bray Curtis Cluster analysis ($\beta = -0.1$)

4.2.8 Threatened and Priority Ecological Communities


No vegetation considered representative of any Threatened Ecological Community (TEC) or Priority Ecological Community (PEC) was recorded within the Survey Area.

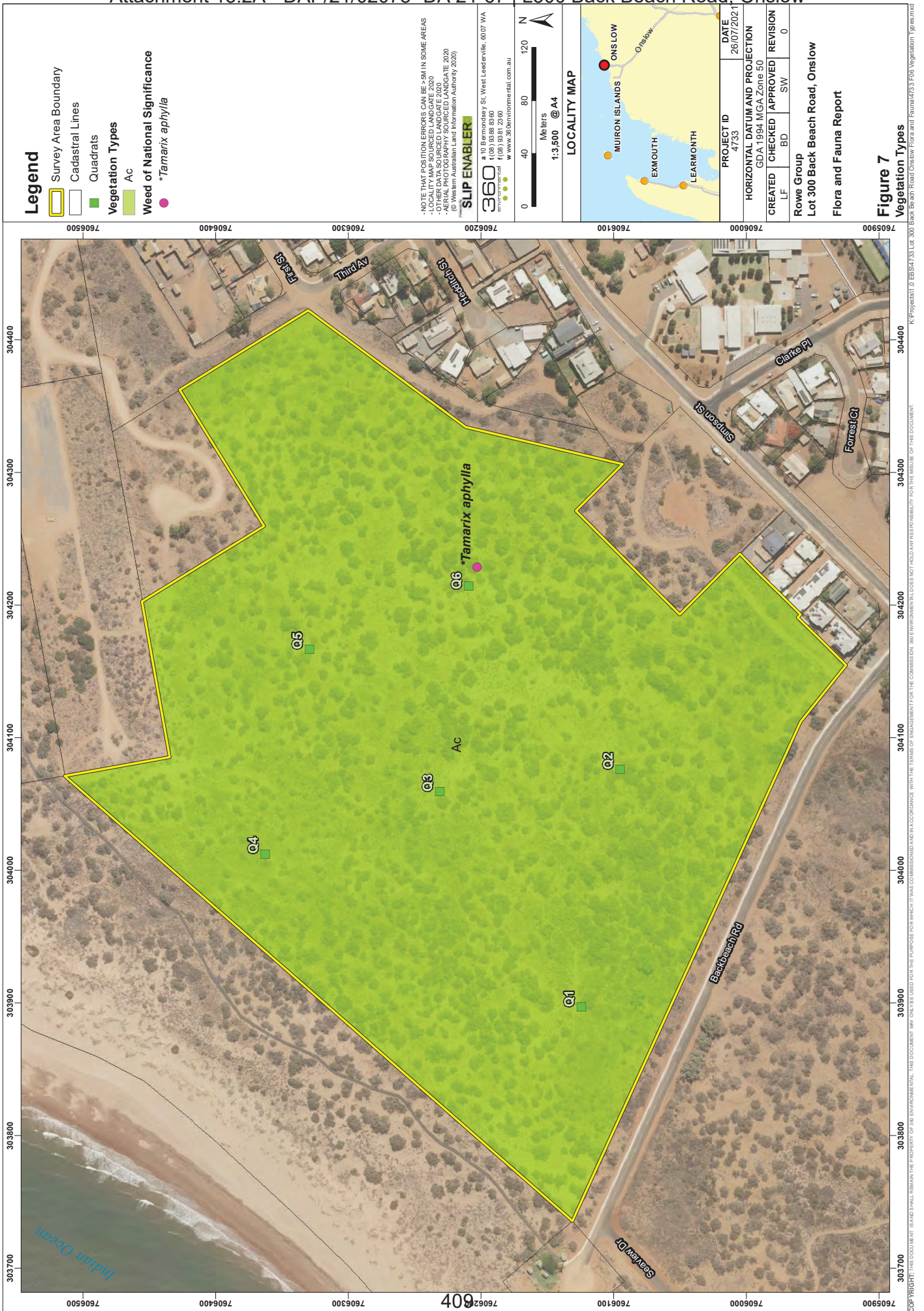
4.2.9 Vegetation Condition

Vegetation condition within the Survey Area was determined to be Very Good (Trudgen, 1991; Table 9), comprising of 100% of the survey area.

Evidence of disturbance included old vehicle tracks, littering and weeds (particularly infestations of **Cenchrus ciliaris*).

Table 9: Vegetation Types Occurring within the Survey Area

Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Vegetation Condition	Photograph
Coastal Dunes				
<p>VT1: <i>Acacia coriacea</i> subsp. <i>coriacea</i> and <i>Acacia tetragonophylla</i> (with <i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>) mid to low sparse shrubland over *<i>Cenchrus ciliaris</i> and <i>Eulalia aurea</i> low tussock grassland with <i>Triodia epactia</i> low sparse hummock grassland over <i>Euphorbia myrtooides</i> low sparse herbland.</p> <p>Sites: Q1, Q2, Q3, Q4, Q5, Q6</p>	Dunes	25 ha, 100 %	Very Good	





Legend

- Survey Area
- Cadastral Lines
- Vegetation on Condition**
- Very Good (VG)

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Figure 8
 Vegetation Condition

4.2.10 Vegetation of Conservation Significance

No vegetation representative of any Commonwealth or State listed TECs, DBCA listed PECs was recorded within the Survey Area.

4.2.10.1 Vegetation of Other Conservation Significance

Vegetation may be of significance for a range of reasons, other than a listing as a TEC or a PEC, including (Environmental Protection Authority, 2016a):

- Vegetation extent being below a threshold level
- Scarcity
- Unusual species
- Novel combinations of species
- A role as a refuge
- A role as a key habitat for threatened species or large populations representing a significant proportion of the local to regional total population of a species
- Being representative of the range of a unit (particularly a good local and/or regional example of a unit in 'prime' habitat, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range); and/or
- A restricted distribution
- Culturally significant to the Traditional Owners of the land.

None of the vegetation within the Survey Area is considered to be of other conservation or cultural significance.

4.2.11 Groundwater Dependent Ecosystems

Groundwater dependant vegetation is wholly or partially dependant on permanent or intermittent access to groundwater to meet their water requirements. Groundwater dependant vegetation in the semi-arid and arid bioregions is typically associated with riparian and floodplain vegetation that includes facultative phreatophytes, which are partially dependant on groundwater and/or obligative phreatophytes, which are wholly dependent on groundwater.

None of the vegetation within the Survey Area is considered to be groundwater dependent.

4.2.12 Survey Adequacy

Six flora quadrats were sampled across the Survey Area, with approximately 4.1 quadrats per hectare. This was adequate to ensure three flora sites were sampled in each vegetation type, and that coverage across the Survey Area was sufficient.

A species-area curve (Figure 9), based on a species accumulation analysis, was used to evaluate the adequacy of sampling (Colwell, 2005). The asymptotic value was determined using Michaelis-Menten modelling. Using this analysis, the incidence-based coverage estimator of species richness (ICE) was calculated to be 37.1 native species (Chao, 1984). Based on this value, and the total of 30 native species recorded from six quadrats during the survey, approximately 81% of the flora species potentially present within the Survey area were recorded within

quadrats. An additional two native species were recorded opportunistically, further increasing the total native species count.

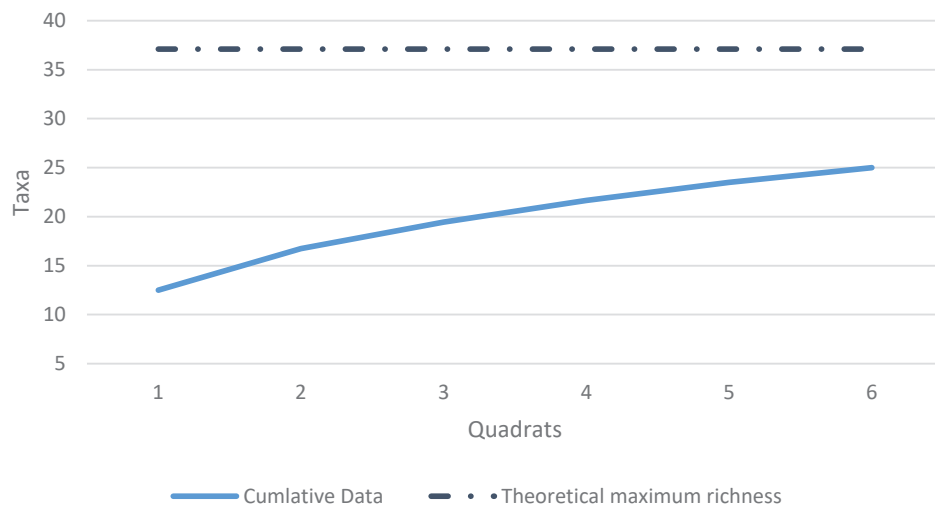


Figure 9: Flora Species Accumulation Curve

4.3 Vertebrate Fauna

4.3.1 Literature Review

The key findings of the literature review are summarised in Appendix B and a list of fauna taxa identified during the literature review is presented in Appendix D.

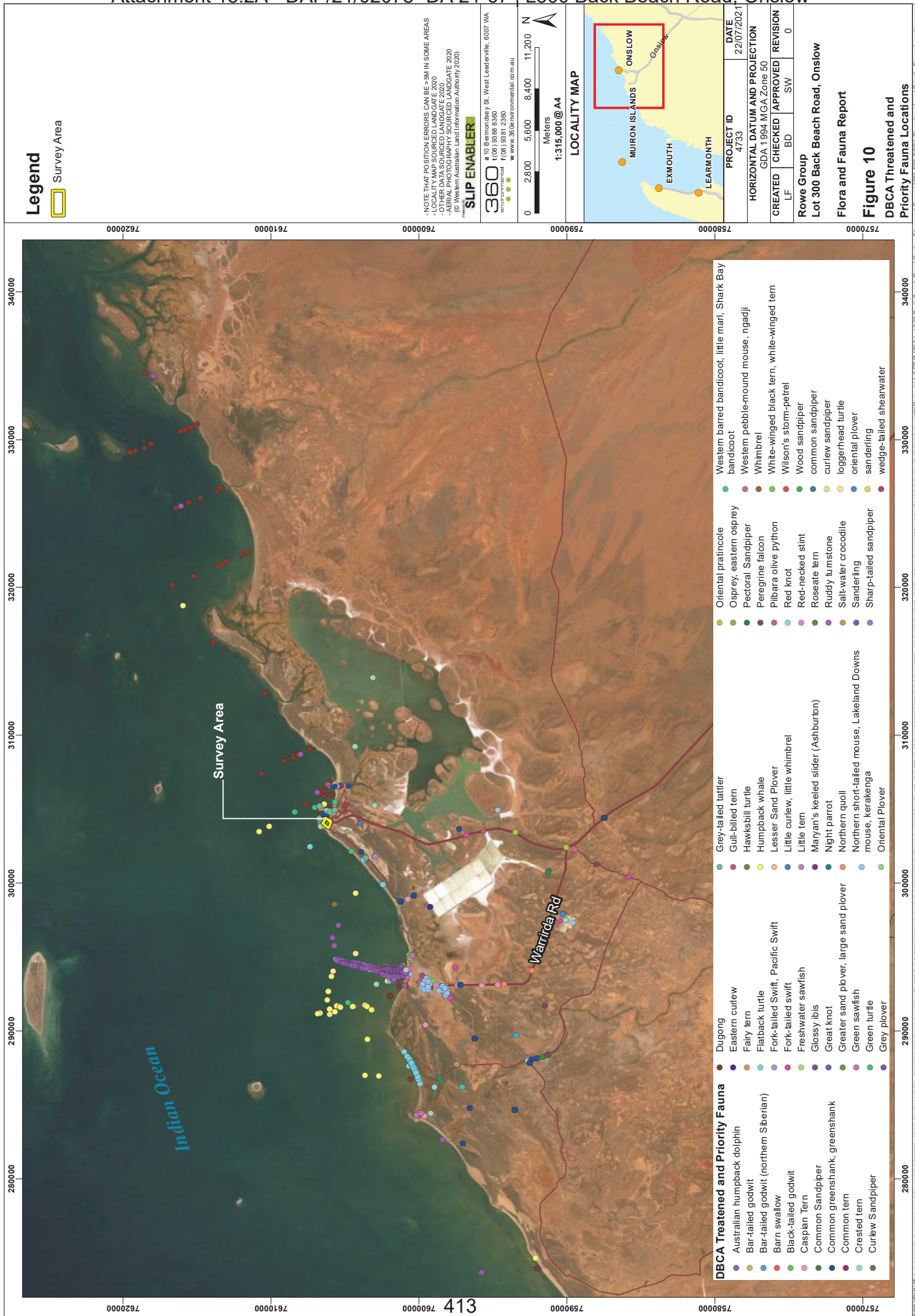
4.3.2 Database Searches

Database searches identified 59 conservation significant terrestrial vertebrate fauna species potentially occurring within the Survey Area, comprising:

- 47 bird species
- Four mammal species
- Eight reptile species (includes five turtle species known to breed in the Pilbara region)
- No amphibian species.

The results of the DBCA Threatened and Priority Fauna database search are mapped in Figure 10. Database searches are displayed in their entirety in Appendix A.

Species listed as Marine only under the EPBC Act, such as the Little Egret (*Egretta garzetta*), White-bellied Sea-Eagle (*Haliaeetus leucogaster*), Silver Gull (*Larus novaehollandiae*), as well as marine dependent species including sea snakes, whales and dolphins have been excluded from the likelihood of occurrence list as there is no marine habitat present within the Survey Area.



Legend

Survey Area

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Figure 10

DBCA Threatened and Priority Fauna Locations

- DBCA Threatened and Priority Fauna**
- Australian humpback dolphin
 - Bar-tailed godwit
 - Bar-tailed godwit (northern Siberian)
 - Barn swallow
 - Caspian Tern
 - Common Sandpiper
 - Common greenshank, greenshank
 - Common tern
 - Crested tern
 - Curlew Sandpiper
 - Dugong
 - Eastern curlew
 - Fairy tern
 - Flatback turtle
 - Fork-tailed Swift, Pacific Swift
 - Fork-tailed swift
 - Freshwater sawfish
 - Glossy ibis
 - Great knot
 - Greater sand plover, large sand plover
 - Green sawfish
 - Green turtle
 - Grey plover
 - Grey-tailed tattler
 - Gull-billed tern
 - Hawksbill turtle
 - Humpback whale
 - Lesser Sand Plover
 - Little curlew, little whimbrel
 - Little tern
 - Maryann's keeled slider (Ashburton)
 - Night parrot
 - Northern quoll
 - Northern short-tailed mouse, Lakeland Downs mouse, kerakanga
 - Oriental Plover
 - Oriental pratincole
 - Osprey, eastern osprey
 - Pectoral Sandpiper
 - Peregrine falcon
 - Pilbara olive python
 - Red knot
 - Red-necked stint
 - Roseate tern
 - Ruddy turnstone
 - Salt-water crocodile
 - Sanderling
 - Sharp-tailed sandpiper
 - Western barred bandicoot, little man, Shark Bay bandicoot
 - Western pebble-mound mouse, ngadjji
 - Whimbrel
 - White-winged black tern, white-winged tern
 - Wilson's storm-petrel
 - Wood sandpiper
 - common sandpiper
 - curlew sandpiper
 - loggerhead turtle
 - oriental plover
 - sanderling
 - wedge-tailed shearwater

4.3.3 Conservation Significant Fauna Likelihood of Occurrence

The likelihood of occurrence assessment within the Survey Area for conservation significant fauna species identified by the databases searches found that:

- No species had a high likelihood of occurrence
- 20 species had a medium likelihood of occurrence (19 bird species, one reptile species)
- 39 species had a low likelihood of occurrence (28 bird species, four mammal species, seven reptile species).

The results of the likelihood of occurrence assessment are presented in Appendix C.

4.3.4 Fauna Habitat

One broad fauna habitat was identified and mapped within the Survey Area (Figure 7). The coastal dune Fauna Habitat was continuous throughout the Survey Area and is analogous with the Coastal Dune (VT1) vegetation type. The habitat quality was found to be good throughout the Survey Area.

A description, extent within the Survey Area and a representative photo is provided for each fauna habitat in Table 10. Fauna habitat Site sheets for each habitat assessment are shown in Appendix F.

Table 10: Fauna Habitat Type Descriptions with the Survey Area

Fauna Habitat	Total Area, Proportion of the Survey Area	Sites	Representative Photo
<p>Coastal Dunes: <i>Acacia coriacea</i> subsp. <i>coriacea</i> and <i>Acacia tetragonophylla</i> (with <i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>) mid to low sparse shrubland over *<i>Cenchrus ciliaris</i> and <i>Eulalia aurea</i> low tussock grassland with <i>Triodia epactia</i> low sparse hummock grassland over <i>Euphorbia myrtilloides</i> low sparse herbland.</p> <p>Suitable good quality habitat for passerine birds (perching birds and songbirds). Suitable, but low-quality habitat for reptile and small mammal species due to the presence of cats and alteration of understorey structure by *<i>Cenchrus ciliaris</i>.</p>	<p>25 ha, 100%</p>	<p>HA1, HA2, HA3, HA4, HA5, HA6</p>	

4.3.5 Fauna Assemblage

The terrestrial vertebrate fauna survey recorded a total of 18 fauna species from 13 families, summarised in Table 11. A full inventory of fauna species recorded during the field survey is provided in Appendix D.

Table 11: Overview of Vertebrate Fauna Species Recorded

Fauna Group	Number of Species	Number of Families
Birds	14	9
Mammals	3	3
Reptiles	1	1
Amphibians	0	0
Total	18	13

4.3.5.1 Sightings

A total of 14 bird species from nine families were recorded throughout the Survey Area (all birds heard calling were also sighted within the Survey Area). The most recorded species was the Zebra Finch (*Taeniopygia guttata*) followed by the White-plumed Honeyeater (*Ptilotula penicillata*) and the White-breasted Woodswallow (*Artamus leucorynchus*). The most speciose avifauna family was Meliphagidae (three taxa).

One reptile species was tentatively identified, the Dune Dragon (*Ctenophorus femoralis*), with other dragon sightings representing the same genus, but the fast nature of these animals made positive identification difficult.

4.3.5.2 Tracks

Bird tracks were observed throughout the Survey Area, as were cat tracks. Small mammal and reptile tracks were also found, most often occurring between clumps of thicker vegetation.

4.3.6 Conservation Significant Fauna

No fauna species of conservation significance (Threatened or Priority), or evidence of these species such as tracks, scats, nest, diggings, burrows, or direct sightings were recorded within or directly surrounding the Survey Area.

5 Discussion

5.1 Flora and Vegetation

The overall vegetation condition within the survey area was considered to be Very Good (Trudgen, 1991). The species diversity and abundance is consistent with the ecology and diversity of the Cape Range IBRA Subregion, and previous surveys of this level within the local area. **Tamarix aphylla* was recoded with one quadrat. This species is a weed of conservation significance, being listed as both a Declared Pest and a Weed of National Significance. No PECs or TECs were recoded with the Survey Area.

5.1.1 Flora of Conservation Significance

No Threatened or Priority listed Flora were recorded within the Survey Area.

Of the nine potentially occurring flora of Conservation Significance identified by the desktop assessment, three had the potential to occur within the Survey Area:

- *Eleocharis papillosa* (P3) is an annual herb that occurs in brown, Nov. Red clay over granite, open clay flats. Claypans. The survey was undertaken outside the known flowering period for the species it may not have been present at the time of the survey.
- *Abutilon sp. pritzelianum* (P3) is an erect annual shrub no habitat data is available for this taxon (WA Herb). However, based on habit types from the closest record (approximately 11.5 km from the Survey Area) it is unlikely that this species is present within the Survey Area.
- *Stackhousia clementii* (P3) is a dense broom-like perennial, herb, to 0.45 m high. Fl. green/yellow/brown. Habitat preference is Skeletal soils and Sandstone hills. Based on soil type within the Survey Area (fine laterite sands), it is unlikely that this species will be found within the survey area.

Based on soil type and habit recoded during the survey, *Eleocharis papillosa* (P3) and *Abutilon sp. pritzelianum* (P2) and *Stackhousia clementii* (P3) were considered to have a low likelihood of occurrence and are unlikely to occur within the proposed clearing area.

5.1.2 Introduced Flora

Four weed species were recorded in the Survey Area; **Tamarix aphylla* (Declared Pest, WoNS) was recorded in only one quadrat. Based on the location relevant to the proposed clearing sites and population extent (only on mature tree was recoded) no additional action would be required.

Two additional weed species **Cenchrus ciliaris*, **Washingtonia filifera* were also present, with **Cenchrus ciliaris* covering approximately 70% of the Survey Area.

5.1.3 Vegetation Types

The vegetation type described in the Survey Area is consistent with the Beard (1976) and Shepherd et al. (2002) broad vegetation systems associations. Vegetation mapping within the Survey Area was representative of existing broad scale vegetation and soil and land system mapping for the locality.

The vegetation of the Coastal Dunes (VT1) is broadly representative of Cape Yannare Coastal Plain 117, described as grass-steppe hummock grassland *Triodia* spp. The vegetation type described in this report is not representative any listed PEC or TEC.

5.2 Vertebrate Fauna

5.2.1 Fauna Habitat

One broad fauna habitat was observed within the Survey Area comprising Coastal Dunes. The coastal dune habitat contains limited microhabitat opportunities and is of low value to most conservation significant fauna species and overall fauna assemblages that occur in the broader area.

One conservation significant fauna species, *Lerista planiventralis maryani* (P1), utilises dune habitat in the bioregion and records indicate that it historically occurred within 1 km of the Survey Area. A targeted terrestrial vertebrate survey utilising pitfall traps would be needed to assess its presence or absence in the Survey area with greater certainty.

Shorebirds, including conservation significant species, may use coastal dune areas within the Survey Area, however, these species are highly mobile and would not be reliant on the habitats within the Survey Area.

The level of survey detail undertaken is consistent with the requirements of a Detailed Flora Vegetation Survey. The expected low diversity and relatively uniform landform means that the findings of the report are sufficient to inform impact assessment across the project area.

Clearing of vegetation within the Survey Area is unlikely to significantly impact most fauna species due to the abundance of similar habitat south of the Survey Area. However, if *Lerista planiventralis maryani* (P1) are inhabiting the Survey Area, clearing will have a significant impact on the local population.

6 Conclusion

The key findings of the survey within the Survey Area were:

- No Threatened flora species pursuant to the EPBC Act and/or gazetted as Threatened pursuant to the BC Act, or DBCA listed Priority flora were recorded during the surveys.
- Four introduced species were recorded during the survey, one of these **Tamarix aphylla* listed as a declared pest and a Weed of National significance under the BAM act.
- One vegetation type, VT1, coastal dunes was mapped within the Survey Area.
- No TECs or PECs were recorded within the Survey Area.
- One broad fauna habitat was observed within the Survey Area comprising coastal dunes.
- One conservation significant fauna species, *Lerista planiventralis maryani* (P1), utilises dune habitat in the bioregion, and records indicate that it historically occurred within 1 km of the Survey Area. A targeted terrestrial vertebrate survey would be needed to confirm its presence or absence.
- Shorebirds may use the coastal dune areas within the Survey Area; however, these species are highly mobile and would not be reliant on the habitats within the Survey Area.

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Aspects of this report, including the opinions, conclusions, and recommendations it contains, are based on the results of the investigation, sampling and testing set out in the contract and otherwise in accordance with normal practices and standards. The investigation, sampling and testing are designed to produce results that represent a reasonable interpretation of the general conditions of the site that is the subject of this report. However, due to the characteristics of the site, including natural variations in site conditions, the results of the investigation, sampling and testing may not accurately represent the actual state of the whole site at all points.

It is important to recognise that site conditions, including the extent and concentration of contaminants, can change with time. This is particularly relevant if this report, including the data, opinions, conclusions, and recommendations it contains, are to be used a considerable time after it was prepared. In these circumstances, further investigation of the site may be necessary.

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Appendices

Appendix A Database Searches

DBCA Threatened and Priority Flora Database Search

Taxon	ConsStatus	WARank	Location	District	Vesting	Purpose	CountDate	InFlower	HabNotes	Landform	SoilType	SoilColor	AssSpecies	Veg_Stru_A	Veg_demia.1
<i>Abutilon</i> sp. Onslow (F. Smith s.n. 10/9/61)	1		Davis Bore, ca 30 km SW of Peedamulla Homestead, Peedamulla Locality (L 3114 905).	KARRATHA	PLB	PAS	13-Sep-86	N	Herd hummock grassland.	FL_PLAIN	SAND		<i>Triodia lanigera</i>	Unknown Veg Class	<i>Triodia lanigera</i>
<i>Carporatus</i> sp. Thevenard Island (M. White 050)	3		Thevenard Island between Saladin 4 (Oil Well) and jetty area. Ashburton Location 147, Thevenard Island Nature Reserve (Reserve No. 33174).	KARRATHA	CC	CFE	24-Aug-90	Y	Coarse sand. Top of dune.	RI_DUNE	SAND	WHITE			

Threatened and Priority Ecological Communities Database Search

COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	OCC_CONFID	BDY_ID	ORIG_FID
Peedamulla Swamp Community	Peedamulla (Cane River) Swamp Community	Not Evaluated		1	Peedamulla		500	No	14822	3051

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 DBCA Conservation Significant Fauna Database Search

Class	Family	Scientific Name	Common Name	Conservation Code	Year
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	1978
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	1999
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2001
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2002
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2003
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2005
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2006
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2008
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2013
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2014
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2015
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2017
BIRD	Accipitridae	<i>Pandion cristatus</i>	Eastern osprey	IA	2019
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2005
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2008
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2012
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2013
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2014
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2014
BIRD	Apodidae	<i>Apus pacificus</i>	Fork-tailed Swift	IA	2015
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	1900
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2003
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2005
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2006
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2008
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2014
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2015
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2016
BIRD	Charadriidae	<i>Charadrius leschenaultii</i>	Greater sand plover	VU	2017
BIRD	Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	1999
BIRD	Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	2008
BIRD	Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	2014
BIRD	Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	2015
BIRD	Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	2017
BIRD	Charadriidae	<i>Charadrius veredus</i>	Oriental Plover	IA	2013
BIRD	Charadriidae	<i>Charadrius veredus</i>	Oriental Plover	IA	2015
BIRD	Charadriidae	<i>Pluvialis squatarola</i>	Grey plover	IA	1999
BIRD	Charadriidae	<i>Pluvialis squatarola</i>	Grey plover	IA	2006
BIRD	Charadriidae	<i>Pluvialis squatarola</i>	Grey plover	IA	2014
BIRD	Charadriidae	<i>Pluvialis squatarola</i>	Grey plover	IA	2015
BIRD	Falconidae	<i>Falco peregrinus</i>	Peregrine falcon	OS	2005
BIRD	Falconidae	<i>Falco peregrinus</i>	Peregrine falcon	OS	2012
BIRD	Falconidae	<i>Falco peregrinus</i>	Peregrine falcon	OS	2017
BIRD	Glareolidae	<i>Glareola maldivarum</i>	Oriental pratincole	IA	2008
BIRD	Glareolidae	<i>Glareola maldivarum</i>	Oriental pratincole	IA	2013
BIRD	Glareolidae	<i>Glareola maldivarum</i>	Oriental pratincole	IA	2017
BIRD	Hirundinidae	<i>Hirundo rustica</i>	Barn swallow	IA	2014
BIRD	Hirundinidae	<i>Hirundo rustica</i>	Barn swallow	IA	2015
BIRD	Hydrobatidae	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	IA	2013
BIRD	Laridae	<i>Chlidonias leucopterus</i>	White-winged black tern	IA	2008
BIRD	Laridae	<i>Chlidonias leucopterus</i>	White-winged black tern	IA	2016
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	1978
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	1999
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2001
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2002
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2003
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2005
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2006
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2008
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2013
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2014
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2015
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2016
BIRD	Laridae	<i>Hydroprogne caspia</i>	Caspian Tern	IA	2017
BIRD	Laridae	<i>Sterna dougallii</i>	Roseate tern	IA	2003
BIRD	Laridae	<i>Sterna dougallii</i>	Roseate tern	IA	2006
BIRD	Laridae	<i>Sterna dougallii</i>	Roseate tern	IA	2008
BIRD	Laridae	<i>Sterna dougallii</i>	Roseate tern	IA	2016
BIRD	Laridae	<i>Sterna hirundo</i>	Common tern	IA	2008

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BIRD	Laridae	<i>Sterna hirundo</i>	Common tern	IA	2014
BIRD	Laridae	<i>Sterna hirundo</i>	Common tern	IA	2015
BIRD	Laridae	<i>Sterna hirundo</i>	Common tern	IA	2017
BIRD	Laridae	<i>Sternula albifrons</i>	Little tern	IA	2001
BIRD	Laridae	<i>Sternula albifrons</i>	Little tern	IA	2002
BIRD	Laridae	<i>Sternula albifrons</i>	Little tern	IA	2006
BIRD	Laridae	<i>Sternula albifrons</i>	Little tern	IA	2008
BIRD	Laridae	<i>Sternula albifrons</i>	Little tern	IA	2014
BIRD	Laridae	<i>Sternula albifrons</i>	Little tern	IA	2015
BIRD	Laridae	<i>Sternula nereis nereis</i>	Fairy tern	VU	1947
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	1981
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	1999
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2001
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2002
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2005
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2006
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2008
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2014
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2015
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2016
BIRD	Laridae	<i>Thalasseus bergii</i>	Crested tern	IA	2017
BIRD	Procellariidae	<i>Ardenna pacifica</i>	Wedge-tailed shearwater	IA	2014
BIRD	Procellariidae	<i>Ardenna pacifica</i>	Wedge-tailed shearwater	IA	2017
BIRD	Psittacidae	<i>Pezoporus occidentalis</i>	Night parrot	CR	1967
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2001
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2002
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2003
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	common sandpiper	IA	2008
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2013
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2014
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2015
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2016
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2017
BIRD	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	2018
BIRD	Scolopacidae	<i>Arenaria interpres</i>	Ruddy turnstone	IA	1999
BIRD	Scolopacidae	<i>Arenaria interpres</i>	Ruddy turnstone	IA	2006
BIRD	Scolopacidae	<i>Arenaria interpres</i>	Ruddy turnstone	IA	2008
BIRD	Scolopacidae	<i>Arenaria interpres</i>	Ruddy turnstone	IA	2014
BIRD	Scolopacidae	<i>Arenaria interpres</i>	Ruddy turnstone	IA	2015
BIRD	Scolopacidae	<i>Arenaria interpres</i>	Ruddy turnstone	IA	2016
BIRD	Scolopacidae	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	IA	1901
BIRD	Scolopacidae	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	IA	2003
BIRD	Scolopacidae	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	IA	2008
BIRD	Scolopacidae	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	IA	2011
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2002
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2003
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2006
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2008
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2014
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2015
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2016
BIRD	Scolopacidae	<i>Calidris alba</i>	Sanderling	IA	2017
BIRD	Scolopacidae	<i>Calidris canutus</i>	Red knot	EN	1980
BIRD	Scolopacidae	<i>Calidris ferruginea</i>	Curlew sandpiper	CR	1999
BIRD	Scolopacidae	<i>Calidris melanotos</i>	Pectoral Sandpiper	IA	2015
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	1999
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2001
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2002
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2003
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2006
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2008
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2013
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2014
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2015
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2016
BIRD	Scolopacidae	<i>Calidris ruficollis</i>	Red-necked stint	IA	2017
BIRD	Scolopacidae	<i>Calidris tenuirostris</i>	Great knot	CR	2008
BIRD	Scolopacidae	<i>Calidris tenuirostris</i>	Great knot	CR	2019
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	1977
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	1978

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BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2001
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2002
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2003
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2005
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2006
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2008
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2014
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2015
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2016
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2017
BIRD	Scolopacidae	<i>Limosa lapponica</i>	Bar-tailed godwit	IA	2019
BIRD	Scolopacidae	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit	CR	1901
BIRD	Scolopacidae	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit	CR	
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	1966
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2001
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2002
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2006
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2014
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2015
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2017
BIRD	Scolopacidae	<i>Numenius madagascariensis</i>	Eastern curlew	CR	2019
BIRD	Scolopacidae	<i>Numenius minutus</i>	Little curlew	IA	2003
BIRD	Scolopacidae	<i>Numenius minutus</i>	Little curlew	IA	2016
BIRD	Scolopacidae	<i>Numenius phaeopus</i>	Whimbrel	IA	2006
BIRD	Scolopacidae	<i>Numenius phaeopus</i>	Whimbrel	IA	2008
BIRD	Scolopacidae	<i>Numenius phaeopus</i>	Whimbrel	IA	2014
BIRD	Scolopacidae	<i>Numenius phaeopus</i>	Whimbrel	IA	2015
BIRD	Scolopacidae	<i>Numenius phaeopus</i>	Whimbrel	IA	2017
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	1999
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2001
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2003
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2006
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2008
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2014
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2015
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2016
BIRD	Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed tattler	IA	2017
BIRD	Scolopacidae	<i>Tringa glareola</i>	Wood sandpiper	IA	2008
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	1999
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	2003
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	2006
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	2008
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	2015
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	2016
BIRD	Scolopacidae	<i>Tringa nebularia</i>	Common greenshank	IA	2019
BIRD	Sturnidae	<i>Gelochelidon nilotica</i>	Gull-billed tern	IA	1999
BIRD	Sturnidae	<i>Gelochelidon nilotica</i>	Gull-billed tern	IA	2003
BIRD	Sturnidae	<i>Gelochelidon nilotica</i>	Gull-billed tern	IA	2006
BIRD	Sturnidae	<i>Gelochelidon nilotica</i>	Gull-billed tern	IA	2008
BIRD	Sturnidae	<i>Gelochelidon nilotica</i>	Gull-billed tern	IA	2016
BIRD	Sturnidae	<i>Gelochelidon nilotica</i>	Gull-billed tern	IA	2018
BIRD	Threskiornithidae	<i>Plegadis falcinellus</i>	Glossy ibis	IA	2015
FISH	Pristidae	<i>Pristis zijsron</i>	Green sawfish	VU	2011
FISH	Pristidae	<i>Pristis zijsron</i>	Green sawfish	VU	2013
MAMMAL	Balaenopteridae	<i>Megaptera novaeangliae</i>	Humpback whale	CD	2013
MAMMAL	Balaenopteridae	<i>Megaptera novaeangliae</i>	Humpback whale	CD	2015
MAMMAL	Dasyuridae	<i>Dasyurus hallucatus</i>	Northern quoll	EN	2012
MAMMAL	Dasyuridae	<i>Dasyurus hallucatus</i>	Northern quoll	EN	2013
MAMMAL	Dasyuridae	<i>Dasyurus hallucatus</i>	Northern quoll	EN	2017
MAMMAL	Delphinidae	<i>Sousa sahalensis</i>	Australian humpback dolphin	P4	2013
MAMMAL	Delphinidae	<i>Sousa sahalensis</i>	Australian humpback dolphin	P4	2014
MAMMAL	Delphinidae	<i>Sousa sahalensis</i>	Australian humpback dolphin	P4	2015
MAMMAL	Dugongidae	<i>Dugong dugon</i>	Dugong	OS	2012
MAMMAL	Dugongidae	<i>Dugong dugon</i>	Dugong	OS	2013
MAMMAL	Dugongidae	<i>Dugong dugon</i>	Dugong	OS	2014
MAMMAL	Dugongidae	<i>Dugong dugon</i>	Dugong	OS	2015
MAMMAL	Dugongidae	<i>Dugong dugon</i>	Dugong	OS	
MAMMAL	Muridae	<i>Leggadina lakedownensis</i>	Northern short-tailed mouse	P4	2003
MAMMAL	Muridae	<i>Leggadina lakedownensis</i>	Northern short-tailed mouse	P4	2016
MAMMAL	Muridae	<i>Pseudomys chapmani</i>	Western pebble-mound mouse	P4	2005

Attachment 13.2A - DAP/21/02078 -DA 21-67 | L300 Back Beach Road, Onslow
 DBCA Conservation Significant Fauna Database Search

REPTILE	Cheloniidae	<i>Caretta caretta</i>	loggerhead turtle	EN	2013
REPTILE	Cheloniidae	<i>Caretta caretta</i>	loggerhead turtle	EN	2014
REPTILE	Cheloniidae	<i>Caretta caretta</i>	loggerhead turtle	EN	2015
REPTILE	Cheloniidae	<i>Chelonia mydas</i>	Green turtle	VU	2012
REPTILE	Cheloniidae	<i>Chelonia mydas</i>	Green turtle	VU	2013
REPTILE	Cheloniidae	<i>Chelonia mydas</i>	Green turtle	VU	2014
REPTILE	Cheloniidae	<i>Chelonia mydas</i>	Green turtle	VU	2015
REPTILE	Cheloniidae	<i>Chelonia mydas</i>	Green turtle	VU	2016
REPTILE	Cheloniidae	<i>Eretmochelys imbricata</i>	Hawksbill turtle	VU	2013
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2009
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2010
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2012
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2013
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2014
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2015
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2017
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	2018
REPTILE	Cheloniidae	<i>Natator depressus</i>	Flatback turtle	VU	
REPTILE	Crocodylidae	<i>Crocodylus porosus</i>	Salt-water crocodile	OS	2008
REPTILE	Crocodylidae	<i>Crocodylus porosus</i>	Salt-water crocodile	OS	2014
REPTILE	Scincidae	<i>Lerista planiventralis maryani</i>	Maryan's keeled slider	P1	1990

NatureMap Species Report

Created By Guest user on 13/07/2021

Kingdom	Plantae
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Circle'
Centre	115° 06' 29" E, 21° 38' 09" S
Buffer	40km
Group By	Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	541	3741
Priority 1	4	8
Priority 3	5	14
TOTAL	550	3763

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Priority 1				
1.	14110 <i>Abutilon</i> sp. Onslow (F. Smith s.n. 10/9/61)		P1	
2.	43021 <i>Abutilon</i> sp. Pritzelianum (S. van Leeuwen 5095)		P1	
3.	3994 <i>Isotropis forrestii</i>		P1	
4.	19420 <i>Myriocephalus scalpellus</i>		P1	
Priority 3				
5.	18359 <i>Carpobrotus</i> sp. Thevenard Island (M. White 050)		P3	
6.	31017 <i>Eleocharis papillosa</i>		P3	
7.	17177 <i>Eremophila forrestii</i> subsp. <i>viridis</i>		P3	
8.	4729 <i>Stackhousia clementii</i>		P3	
9.	17524 <i>Triumfetta echinata</i>		P3	
Non-conservation taxon				
10.	<i>Abutilon</i> Onslow (F. Smith s.n. 10/9/61)			
11.	9080 <i>Abutilon cunninghamii</i>			
12.	4895 <i>Abutilon lepidum</i>			
13.	4899 <i>Abutilon malvifolium</i> (Bastard Marshmallow)			
14.	4901 <i>Abutilon otocarpum</i> (Desert Chinese Lantern)			
15.	<i>Abutilon</i> sp.			
16.	42920 <i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)			
17.	<i>Acacia Airlie Island</i> (V. Long VL163)			
18.	3209 <i>Acacia ampliceps</i>			
19.	3214 <i>Acacia ancistrocarpa</i> (Fitzroy Wattle)			
20.	3241 <i>Acacia bivenosa</i>			
21.	3260 <i>Acacia citrinoviridis</i>			
22.	17013 <i>Acacia colei</i> var. <i>colei</i>			
23.	3270 <i>Acacia coriacea</i> (Wirewood)			
24.	13500 <i>Acacia coriacea</i> subsp. <i>coriacea</i>			
25.	14088 <i>Acacia cyperophylla</i> var. <i>cyperophylla</i>			
26.	3356 <i>Acacia gregorii</i> (Gregory's Wattle)			
27.	3419 <i>Acacia ligulata</i> (Umbrella Bush, Watarka)			
28.	3506 <i>Acacia pyrifolia</i> (Ranji Bush, Kandji)			
29.	3534 <i>Acacia sclerosperma</i> (Limestone Wattle)			
30.	13078 <i>Acacia sclerosperma</i> subsp. <i>sclerosperma</i>			
31.	29135 <i>Acacia sericophylla</i>			
32.	29102 <i>Acacia</i> sp. Airlie Island (V. Long VL 163)			
33.	20819 <i>Acacia</i> sp. Ripon Hills (B.R. Maslin 8460)			
34.	3551 <i>Acacia sphaerostachya</i>			
35.	19456 <i>Acacia stellaticeps</i>			
36.	13070 <i>Acacia synchronicia</i>			
37.	3577 <i>Acacia tetragonophylla</i> (Kurara, Wakalpuka)			
38.	3579 <i>Acacia trachycarpa</i> (Minni Ritchi, Balgali)			
39.	3595 <i>Acacia victoriae</i> (Bramble Wattle, Ngatunpa)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
40.	3603 <i>Acacia wiseana</i>			
41.	3606 <i>Acacia xiphophylla</i>			
42.	26441 <i>Acanthophora spicifera</i>			
43.	35868 <i>Acrocystis nana</i>			
44.	4583 <i>Adriana tomentosa</i>			
45.	17422 <i>Adriana tomentosa</i> var. <i>tomentosa</i>			
46.	6486 <i>Aegialitis annulata</i> (Club Mangrove)			
47.	6478 <i>Aegiceras corniculatum</i> (River Mangrove)			
48.	39780 <i>Aenictophyton reconditum</i> subsp. <i>reconditum</i>			
49.	2646 <i>Aerva javanica</i> (Kapok Bush)	Y		
50.	3680 <i>Aeschynomene indica</i> (Budda Pea)			
51.	4739 <i>Alectryon oleifolius</i>			
52.	11487 <i>Alectryon oleifolius</i> subsp. <i>oleifolius</i>			
53.	2652 <i>Alteranthera nodiflora</i> (Common Joyweed)			
54.	4907 <i>Alyogyne pinoniana</i> (Sand Hibiscus)			
55.	17147 <i>Alysicarpus muelleri</i>			
56.	2666 <i>Amaranthus mitchellii</i> (Boggabri Weed)			
57.	20018 <i>Amaranthus undulatus</i>			
58.	5278 <i>Ammannia multiflora</i>			
59.	126 <i>Amphibolis antarctica</i> (Sea Nymph)			
60.	26462 <i>Amphiroa fragilissima</i>			
61.	11874 <i>Amyema sanguinea</i> var. <i>sanguinea</i>			
62.	14307 <i>Amyema</i> sp. <i>Fortescue</i> (M.E. Trudgen 5358)			
63.	35872 <i>Anadyomene plicata</i>			
64.	7822 <i>Angianthus acrohyalinus</i> (Hook-leaf Angianthus)			
65.	7827 <i>Angianthus cunninghamii</i> (Coast Angianthus)			
66.	7832 <i>Angianthus milnei</i> (Cone-spike Angianthus)			
67.	26469 <i>Anotrichium tenue</i>			
68.	207 <i>Aristida contorta</i> (Bunched Kerosene Grass)			
69.	210 <i>Aristida holathera</i>			
70.	12063 <i>Aristida holathera</i> var. <i>holathera</i>			
71.	215 <i>Aristida latifolia</i> (Feathertop Wiregrass)			
72.	26486 <i>Asparagopsis taxiformis</i>			
73.	2451 <i>Atriplex bunburyana</i> (Silver Saltbush)			
74.	2453 <i>Atriplex codonocarpa</i> (Flat-topped Saltbush)			
75.	2463 <i>Atriplex isatidea</i> (Coast Saltbush)			
76.	2476 <i>Atriplex semilunaris</i> (Annual Saltbush)			
77.	233 <i>Avena barbata</i> (Bearded Oat)	Y		
78.	6828 <i>Avicennia marina</i> (White Mangrove)			
79.	26498 <i>Avrainvillea obscura</i>			
80.	5183 <i>Bergia ammannioides</i>			
81.	5184 <i>Bergia pedicellaris</i>			
82.	5185 <i>Bergia perennis</i>			
83.	11726 <i>Bergia perennis</i> subsp. <i>exigua</i>			
84.	5186 <i>Bergia trimera</i>			
85.	48503 <i>Betaphycus speciosus</i>			
86.	7866 <i>Blumea tenella</i>			
87.	26507 <i>Boergesenia forbesii</i>			
88.	2769 <i>Boerhavia burbidgeana</i>			
89.	2770 <i>Boerhavia coccinea</i> (Tar Vine, Wituka)			
90.	8357 <i>Boerhavia diffusa</i>			
91.	2774 <i>Boerhavia repleta</i>			
92.	2775 <i>Boerhavia schomburgkiana</i>			
93.	<i>Boerhavia</i> sp.			
94.	11167 <i>Bonamia erecta</i>			
95.	6605 <i>Bonamia linearis</i>			
96.	26508 <i>Boodlea composita</i>			
97.	26509 <i>Borometella oligospora</i>			
98.	3000 <i>Brassica tournefortii</i> (Mediterranean Turnip)	Y		
99.	<i>Breynia desorii</i>			
100.	5291 <i>Bruguiera exaristata</i> (Ribbed Mangrove)			
101.	7047 <i>Buchnera linearis</i> (Blackrod)			
102.	750 <i>Bulbostylis barbata</i>			
103.	2860 <i>Calandrinia polyandra</i> (Parakeelya)			
104.	2864 <i>Calandrinia Ptychosperma</i>			
105.	7893 <i>Calocephalus knappii</i>			
106.	7903 <i>Calotis hispidula</i> (Bindy Eye)			
107.	7906 <i>Calotis plumulifera</i>			
108.	3749 <i>Canavalia rosea</i> (Wild Jack Bean)			
109.	2981 <i>Capparis spinosa</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
110.	<i>Carpobrotus</i> sp. subsp. <i>Thevenard Island (M. White 050)</i>			
111.	2798 <i>Carpobrotus virescens</i> (<i>Coastal Pigface, Kolboko, Bain</i>)			
112.	2948 <i>Cassytha aurea</i>			
113.	12073 <i>Cassytha aurea</i> var. <i>aurea</i>			
114.	2949 <i>Cassytha capillaris</i>			
115.	2950 <i>Cassytha filiformis</i> (<i>Love Vine, Jirawan</i>)			
116.	19842 <i>Casuarina equisetifolia</i>	Y		
117.	42620 <i>Caulerpa chemnitzia</i>			
118.	35158 <i>Caulerpa corynephora</i>			
119.	26559 <i>Caulerpa cupressoides</i>			
120.	27378 <i>Caulerpa cupressoides</i> var. <i>lycopodium</i>			
121.	42783 <i>Caulerpa delicatula</i>			
122.	26562 <i>Caulerpa fergusonii</i>			
123.	44547 <i>Caulerpa lamourouxii</i>			
124.	26567 <i>Caulerpa lanuginosa</i>			
125.	26568 <i>Caulerpa lentillifera</i>			
126.	26573 <i>Caulerpa racemosa</i>			
127.	26576 <i>Caulerpa serrulata</i>			
128.	26577 <i>Caulerpa sertularioides</i>			
129.	26579 <i>Caulerpa taxifolia</i>			
130.	258 <i>Cenchrus ciliaris</i> (<i>Buffel Grass</i>)	Y		
131.	41568 <i>Cenchrus setaceus</i> (<i>Fountain Grass</i>)	Y		
132.	7919 <i>Centipeda minima</i> (<i>Spreading Sneezewood, Kanjirralaa, Inteng-inteng, Karengkal, Kata-palkalpa, Munyu-parnti-parnti</i>)			
133.	19762 <i>Centipeda minima</i> subsp. <i>macrocephala</i>			
134.	26587 <i>Centroceras clavulatum</i>			
135.	26606 <i>Ceratodictyon spongiosum</i>			
136.	26618 <i>Champia parvula</i>			
137.	269 <i>Chloris pectinata</i> (<i>Comb Chloris</i>)			
138.	270 <i>Chloris pumilio</i>			
139.	26628 <i>Chondria armata</i>			
140.	273 <i>Chrysopogon fallax</i> (<i>Golden Beard Grass</i>)			
141.	35865 <i>Cladophora catenata</i>			
142.	36316 <i>Cladophora herpestica</i>			
143.	26658 <i>Cladophora vagabunda</i>			
144.	29101 <i>Cleome uncifera</i> subsp. <i>uncifera</i>			
145.	2988 <i>Cleome viscosa</i> (<i>Tickweed, Tjinduwadhu</i>)			
146.	26673 <i>Codium geppiorum</i>			
147.	2778 <i>Codonocarpus cotinifolius</i> (<i>Native Poplar, Kundurangu</i>)			
148.	26686 <i>Coelarthrum opuntia</i>			
149.	2776 <i>Commicarpus australis</i> (<i>Perennial Tar Vine</i>)			
150.	19880 <i>Convolvulus angustissimus</i>			
151.	7939 <i>Conyza bonariensis</i> (<i>Flaxleaf Fleabane</i>)	Y		
152.	25847 <i>Corchorus incanus</i> subsp. <i>incanus</i>			
153.	18414 <i>Corchorus sidoides</i> subsp. <i>vermicularis</i>			
154.	17093 <i>Corymbia hamersleyana</i>			
155.	17092 <i>Corymbia opaca</i>			
156.	17084 <i>Corymbia zygophylla</i>			
157.	1284 <i>Corynotheca flexuosissima</i>			
158.	1285 <i>Corynotheca micrantha</i> (<i>Sand Lily</i>)			
159.	1286 <i>Corynotheca pungens</i>			
160.	20268 <i>Crassula tetramera</i>			
161.	19565 <i>Cressa australis</i>			
162.	3774 <i>Crotalaria cunninghamii</i> (<i>Green Birdflower, Bilbun</i>)			
163.	20175 <i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>			
164.	20179 <i>Crotalaria medicaginea</i> var. <i>neglecta</i>			
165.	17117 <i>Cullen cinereum</i>			
166.	17436 <i>Cullen graveolens</i>			
167.	17116 <i>Cullen martinii</i>			
168.	17120 <i>Cullen pogonocarpum</i>			
169.	6662 <i>Cuscuta australis</i> (<i>Australian Dodder</i>)			
170.	13733 <i>Cuscuta victoriana</i>			
171.	129 <i>Cymodocea serrulata</i>			
172.	6584 <i>Cynanchum floribundum</i> (<i>Dumara Bush, Tjipa</i>)			
173.	48280 <i>Cynanchum viminale</i> subsp. <i>australe</i>			
174.	283 <i>Cynodon dactylon</i> (<i>Couch</i>)	Y		
175.	46555 <i>Cynodon prostratus</i>			
176.	777 <i>Cyperus bulbosus</i> (<i>Bush Onion, Tjanmata</i>)			
177.	798 <i>Cyperus iria</i>			
178.	808 <i>Cyperus pygmaeus</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
179.	809 <i>Cyperus rigidellus</i>			
180.	814 <i>Cyperus squarrosus</i>			
181.	290 <i>Dactyloctenium radulans</i> (Button Grass)			
182.	7958 <i>Decazesia hecatcephala</i>			
183.	3853 <i>Desmodium filiforme</i>			
184.	29616 <i>Dichotomaria marginata</i>			
185.	29615 <i>Dichotomaria obtusata</i>			
186.	6754 <i>Dicrastylis cordifolia</i>			
187.	26762 <i>Dictyomenia sonderi</i>			
188.	26769 <i>Dictyosphaeria cavernosa</i>			
189.	26771 <i>Dictyosphaeria versluysii</i>			
190.	26782 <i>Digenea simplex</i>			
191.	311 <i>Digitaria ciliaris</i> (Summer Grass)	Y		
192.	48378 <i>Diplachne fusca</i> subsp. <i>fusca</i>			
193.	4745 <i>Diplopeltis eriocarpa</i> (Hairy Pepperflower)			
194.	2499 <i>Dissocarpus paradoxus</i> (Curious Saltbush)			
195.	2502 <i>Dysphania kalpari</i> (Rat's Tail, Kalpari)			
196.	33596 <i>Dysphania melanocarpa</i> forma <i>leucocarpa</i>			
197.	2504 <i>Dysphania plantaginella</i>			
198.	2505 <i>Dysphania platycarpa</i>			
199.	11890 <i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>			
200.	340 <i>Echinopogon ovatus</i> (Hedgehog Grass)			
201.	14301 <i>Ehretia saligna</i> var. <i>saligna</i>			
202.	2511 <i>Enchylaena tomentosa</i> (Barrier Saltbush)			
203.	357 <i>Enneapogon caeruleus</i> (Limestone Grass)			
204.	365 <i>Enneapogon polyphyllus</i> (Leafy Nineawn)			
205.	368 <i>Enteropogon ramosus</i> (Windmill Grass, Curly Windmill Grass)			
206.	369 <i>Eragrostis australasica</i> (Canegrass)			
207.	370 <i>Eragrostis barrelieri</i>	Y		
208.	375 <i>Eragrostis cumingii</i> (Cuming's Love Grass)			
209.	378 <i>Eragrostis dielsii</i> (Mallee Lovegrass)			
210.	380 <i>Eragrostis eriopoda</i> (Woollybutt Grass, Wangurnu)			
211.	381 <i>Eragrostis falcata</i> (Sickle Lovegrass)			
212.	388 <i>Eragrostis leptocarpa</i> (Drooping Lovegrass)			
213.	389 <i>Eragrostis minor</i> (Smaller Stinkgrass)	Y		
214.	392 <i>Eragrostis pergracilis</i>			
215.	393 <i>Eragrostis setifolia</i> (Neverfail Grass)			
216.	398 <i>Eragrostis tenellula</i> (Delicate Lovegrass)			
217.	7189 <i>Eremophila clarkei</i> (Turpentine Bush)			
218.	7208 <i>Eremophila forrestii</i> (Wilcox Bush)			
219.	16696 <i>Eremophila fraseri</i> subsp. <i>fraseri</i>			
220.	17175 <i>Eremophila glabra</i> subsp. <i>albicans</i>			
221.	16363 <i>Eremophila maculata</i> subsp. <i>brevifolia</i> (Native Fuchsia)			
222.	400 <i>Eriachne aristidea</i>			
223.	403 <i>Eriachne benthamii</i> (Swamp Wanderrrie)			
224.	408 <i>Eriachne flaccida</i> (Claypan Grass)			
225.	409 <i>Eriachne gardneri</i>			
226.	414 <i>Eriachne obtusa</i> (Northern Wandarrrie Grass)			
227.	426 <i>Eriochloa pseudoacrotricha</i> (Perennial Cupgrass)			
228.	4334 <i>Erodium crinitum</i> (Corkscrew)			
229.	4335 <i>Erodium cygnorum</i> (Blue Heronsbill)			
230.	3871 <i>Erythrina vespertilio</i> (Yulbah)			
231.	35343 <i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>			
232.	14548 <i>Eucalyptus victrix</i>			
233.	15592 <i>Eucalyptus xerothermica</i>			
234.	11011 <i>Eulalia aurea</i>			
235.	4617 <i>Euphorbia australis</i> (Namana)			
236.	35307 <i>Euphorbia australis</i> var. <i>australis</i>			
237.	35303 <i>Euphorbia australis</i> var. <i>subtomentosa</i>			
238.	4620 <i>Euphorbia boophthona</i> (Gascoyne Spurge)			
239.	4623 <i>Euphorbia coghlanii</i> (Namana)			
240.	4626 <i>Euphorbia drummondii</i> (Caustic Weed, Piwi)			
241.	4629 <i>Euphorbia hirta</i> (Asthma Plant)	Y		
242.	4635 <i>Euphorbia myrtoides</i>			
243.	4644 <i>Euphorbia shakoensis</i>			
244.	4647 <i>Euphorbia tannensis</i>			
245.	12097 <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Desert Spurge)			
246.	42879 <i>Euphorbia trigonosperma</i>			
247.	11200 <i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>			
248.	35558 <i>Flaveria trinervia</i> (Speedy Weed)	Y		

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
249.	5188 <i>Frankenia ambita</i>			
250.	5209 <i>Frankenia pauciflora</i> (Seaheath)			
251.	26835 <i>Galaxaura rugosa</i>			
252.	26837 <i>Ganonema farinosum</i>			
253.	26845 <i>Gelidiopsis intricata</i>			
254.	2835 <i>Glinus lotoides</i> (Hairy Carpet Weed)			
255.	7988 <i>Gnephosis arachnoidea</i> (Cobwebby-headed Gnephosis)			
256.	7989 <i>Gnephosis brevifolia</i> (Short-leaved Gnephosis)			
257.	2680 <i>Gomphrena cunninghamii</i>			
258.	11131 <i>Gomphrena sordida</i>			
259.	7501 <i>Goodenia corynocarpa</i>			
260.	7509 <i>Goodenia forrestii</i>			
261.	7521 <i>Goodenia lamprosperma</i>			
262.	7526 <i>Goodenia microptera</i>			
263.	12571 <i>Goodenia pascua</i>			
264.	7556 <i>Goodenia tenuiloba</i>			
265.	4910 <i>Gossypium australe</i> (Native Cotton)			
266.	4913 <i>Gossypium hirsutum</i> (Upland Cotton)	Y		
267.	26873 <i>Gracilaria salicornia</i>			
268.	2001 <i>Grevillea eriostachya</i> (Flame Grevillea, Kaliny-kalinypa)			
269.	19570 <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>			
270.	2096 <i>Grevillea stenobotrya</i>			
271.	2784 <i>Gyrostemon ramulosus</i> (Corkybark)			
272.	2177 <i>Hakea lorea</i> (Witinti)			
273.	19137 <i>Hakea lorea</i> subsp. <i>lorea</i>			
274.	16897 <i>Hakea stenophylla</i> subsp. <i>stenophylla</i>			
275.	26891 <i>Halimeda cylindracea</i>			
276.	26892 <i>Halimeda discoidea</i>			
277.	26894 <i>Halimeda macroloba</i>			
278.	26896 <i>Halimeda simulans</i>			
279.	26898 <i>Halimeda velasquezii</i>			
280.	47213 <i>Halimeda versatilis</i>			
281.	131 <i>Halodule uninervis</i>			
282.	164 <i>Halophila ovalis</i> (Sea Wrack)			
283.	165 <i>Halophila spinulosa</i>			
284.	6174 <i>Haloragis gossei</i>			
285.	23464 <i>Haloragis gossei</i> var. <i>inflata</i>			
286.	17782 <i>Hannafordia quadrivalvis</i> subsp. <i>recurva</i>			
287.	17299 <i>Heliotropium ammophilum</i>			
288.	17301 <i>Heliotropium chrysocarpum</i>			
289.	6705 <i>Heliotropium crispatum</i>			
290.	6706 <i>Heliotropium cunninghamii</i>			
291.	6707 <i>Heliotropium curassavicum</i> (Smooth Heliotrope)			
292.	6708 <i>Heliotropium diversifolium</i>			
293.	6712 <i>Heliotropium heteranthum</i>			
294.	17307 <i>Heliotropium inexplicitum</i>			
295.	6713 <i>Heliotropium ovalifolium</i>			
296.	17309 <i>Heliotropium pachyphyllum</i>			
297.	6718 <i>Heliotropium tenuifolium</i> (Mamukata)			
298.	17031 <i>Heliotropium transforme</i>			
299.	26930 <i>Heterosiphonia crassipes</i>			
300.	4922 <i>Hibiscus brachychaenus</i>			
301.	4923 <i>Hibiscus brachysiphonius</i>			
302.	4933 <i>Hibiscus leptocladus</i>			
303.	4942 <i>Hibiscus sturtii</i> (Sturt's Hibiscus)			
304.	3971 <i>Indigofera bovipерda</i>			
305.	3973 <i>Indigofera colutea</i> (Sticky Indigo)			
306.	3974 <i>Indigofera georgei</i> (Bovine Indigo)			
307.	3980 <i>Indigofera linnifolia</i>			
308.	3981 <i>Indigofera linnaei</i> (Birdsville Indigo)			
309.	3982 <i>Indigofera monophylla</i>			
310.	6624 <i>Ipomoea costata</i> (Rock Morning Glory, Kanti)			
311.	6633 <i>Ipomoea muelleri</i> (Poison Morning Glory, Yumbu)			
312.	6635 <i>Ipomoea pes-caprae</i>			
313.	11312 <i>Ipomoea pes-caprae</i> subsp. <i>brasiliensis</i>			
314.	6637 <i>Ipomoea polymorpha</i>			
315.	6638 <i>Ipomoea quamoclit</i> (Cupid's Flower)	Y		
316.	458 <i>Iseilema dolichotrichum</i>			
317.	459 <i>Iseilema eremaeum</i>			
318.	465 <i>Iseilema vaginiflorum</i> (Red Flinders Grass)			

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319.	8088 <i>Ixioclamys cuneifolia</i>			
320.	26983 <i>Jania adhaerens</i>			
321.	42222 <i>Jania unguolata</i>			Y
322.	<i>Launaea sarmentosa</i>			
323.	8098 <i>Launaea sarmentosa</i>			
324.	26998 <i>Laurencia brongniartii</i>			
325.	48408 <i>Laurencia dendroidea</i>			
326.	4960 <i>Lawrencia viridigrisea</i>			
327.	3032 <i>Lepidium muelleri-ferdinandii</i>			
328.	3038 <i>Lepidium pholidogynum</i>			
329.	3039 <i>Lepidium platypetalum</i> (Slender Peppergrass)			
330.	3613 <i>Leucaena leucocephala</i> (Leucaena)	Y		
331.	4061 <i>Lotus cruentus</i> (Redflower Lotus)			
332.	2547 <i>Maireana lanosa</i> (Woolly Bluebush)			
333.	2548 <i>Maireana lobiflora</i>			
334.	2556 <i>Maireana planifolia</i> (Low Bluebush)			
335.	4962 <i>Malvastrum americanum</i> (Spiked Malvastrum)	Y		
336.	75 <i>Marsilea exarata</i>			
337.	<i>Marsilea</i> sp.			
338.	5051 <i>Melhaniania oblongifolia</i>			
339.	7082 <i>Mimulus gracilis</i>			
340.	8107 <i>Minuria cunninghamii</i> (Bush Minuria)			
341.	6490 <i>Muellerolimon salicorniaceum</i>			
342.	17158 <i>Myoporum montanum</i> (Native Myrtle)			
343.	17925 <i>Myriocephalus oldfieldii</i>			
344.	8121 <i>Myriocephalus rudallii</i>			
345.	2573 <i>Neobassia astrocarpa</i>			
346.	6971 <i>Nicotiana benthamiana</i> (Tjuntiwari)			
347.	6976 <i>Nicotiana occidentalis</i> (Native Tobacco)			
348.	11856 <i>Nicotiana occidentalis</i> subsp. <i>occidentalis</i>			
349.	11734 <i>Nicotiana rosulata</i> subsp. <i>rosulata</i>			
350.	16347 <i>Oenothera laciniata</i>	Y		
351.	7338 <i>Oldenlandia crouchiana</i>			
352.	<i>Olearia Kennedy Range</i> (G. Byrne 66)			
353.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
354.	42024 <i>Olearia</i> sp. <i>Kennedy Range</i> (G. Byrne 66)			
355.	46834 <i>Osmundaria melvillii</i>			
356.	38021 <i>Palisada concreta</i>			Y
357.	36400 <i>Palisada perforata</i>			
358.	503 <i>Panicum decompositum</i> (Native Millet, Kaltu-kaltu)			
359.	505 <i>Panicum laevinode</i>			
360.	513 <i>Paractaenium novae-hollandiae</i> (Reflexed Panic Grass)			
361.	11232 <i>Paractaenium novae-hollandiae</i> subsp. <i>novae-hollandiae</i>			
362.	514 <i>Paractaenium refractum</i>			
363.	3673 <i>Parkinsonia aculeata</i> (Parkinsonia)	Y		
364.	523 <i>Paspalidium rarum</i> (Rare Paspalidium)			
365.	27121 <i>Penicillium nodulosus</i>			
366.	18463 <i>Peplidium</i> sp. C <i>Evol. Fl. Fauna Arid Aust.</i> (N.T. Burbidge & A. Kanis 8158)			
367.	3674 <i>Petalostylis cassioides</i>			
368.	1042 <i>Phoenix dactylifera</i> (Date Palm)	Y		
369.	17626 <i>Phyllanthus erwinii</i>			
370.	4680 <i>Phyllanthus maderaspatensis</i>			
371.	5230 <i>Pimelea ammocharis</i>			
372.	17817 <i>Pluchea dunlopii</i>			
373.	17816 <i>Pluchea ferdinandi-muelleri</i>			
374.	43944 <i>Pluchea longiseta</i>			
375.	8168 <i>Pluchea rubelliflora</i>			
376.	12075 <i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>			
377.	2901 <i>Polycarpaea holtzei</i>			
378.	2903 <i>Polycarpaea longiflora</i>			
379.	2905 <i>Polycarpon tetraphyllum</i> (Fourleaf Allseed)	Y		
380.	41365 <i>Polygala glaucifolia</i>			
381.	4572 <i>Polygala isingii</i>			
382.	27171 <i>Polysiphonia blandii</i>			
383.	27186 <i>Portieria homemannii</i>			
384.	2878 <i>Portulaca conspicua</i>			
385.	2882 <i>Portulaca intraterranea</i>			
386.	2884 <i>Portulaca oleracea</i> (Purslane, Wakati)			
387.	2886 <i>Portulaca pilosa</i> (Djanggara)	Y		
388.	3620 <i>Prosopis pallida</i> (Mesquite, Algaroba)	Y		

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389.	8189 <i>Pseudognaphalium luteoalbum</i> (Jersey Cudweed)			
390.	8192 <i>Pterocaulon sphacelatum</i> (Apple Bush, Fruit Salad Plant)			
391.	8193 <i>Pterocaulon sphaeranthoides</i>			
392.	2690 <i>Ptilotus aevoides</i>			
393.	2694 <i>Ptilotus appendiculatus</i>			
394.	2695 <i>Ptilotus arthrolasius</i>			
395.	2696 <i>Ptilotus astrolasius</i>			
396.	2699 <i>Ptilotus axillaris</i> (Mat Mulla Mulla)			
397.	2708 <i>Ptilotus chamaecladus</i>			
398.	2721 <i>Ptilotus exaltatus</i> (Tall Mulla Mulla)			
399.	2725 <i>Ptilotus fusiformis</i>			
400.	2728 <i>Ptilotus gomphrenoides</i>			
401.	2738 <i>Ptilotus latifolius</i> (Tangled Mulla Mulla)			
402.	2745 <i>Ptilotus murrayi</i>			
403.	2746 <i>Ptilotus nobilis</i> (Tall Mulla Mulla)			
404.	2751 <i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
405.	2766 <i>Ptilotus villosiflorus</i>			
406.	41063 <i>Quoya loxocarpa</i>			
407.	41061 <i>Quoya paniculata</i>			
408.	2578 <i>Rhagodia baccata</i> (Berry Saltbush)			
409.	2582 <i>Rhagodia eremaea</i> (Thorny Saltbush)			
410.	2584 <i>Rhagodia preissii</i>			
411.	11240 <i>Rhagodia preissii</i> subsp. <i>obovata</i>			
412.	5295 <i>Rhizophora stylosa</i> (Spotted-leaved Red Mangrove)			
413.	13246 <i>Rhodanthe humboldtiana</i>			
414.	13297 <i>Rhodanthe psammophila</i>			
415.	13254 <i>Rhodanthe stricta</i>			
416.	4191 <i>Rhynchosia minima</i> (Rhynchosia)			
417.	<i>Riccia</i> sp.			
418.	45154 <i>Roebuckiella cheilocarpa</i> var. <i>cheilocarpa</i>			
419.	48884 <i>Roepera aurantiaca</i>			
420.	12088 <i>Rostellularia adscendens</i> var. <i>clementii</i>			
421.	30434 <i>Salsola australis</i>			
422.	6484 <i>Samolus repens</i> (Creeping Brookweed)			
423.	14027 <i>Samolus</i> sp. Millstream (M.I.H. Brooker 2076)			
424.	2357 <i>Santalum lanceolatum</i> (Northern Sandalwood, Yarnguli)			
425.	27230 <i>Sarconema filiforme</i>			
426.	12578 <i>Scaevola acacioides</i>			
427.	7606 <i>Scaevola crassifolia</i> (Thick-leaved Fan-flower)			
428.	7608 <i>Scaevola cunninghamii</i>			
429.	7633 <i>Scaevola parvifolia</i> (Camel Weed)			
430.	13172 <i>Scaevola parvifolia</i> subsp. <i>pilbarae</i>			
431.	12584 <i>Scaevola pulchella</i>			
432.	7643 <i>Scaevola sericophylla</i>			
433.	7644 <i>Scaevola spinescens</i> (Currant Bush, Maroon)			
434.	41660 <i>Schenkia australis</i>			
435.	48355 <i>Schoenoplectiella dissachantha</i>			
436.	16257 <i>Schoenoplectus subulatus</i>			
437.	11650 <i>Sclerolaena bicornis</i> var. <i>bicornis</i> (Goathead Burr)			
438.	2604 <i>Sclerolaena costata</i>			
439.	2609 <i>Sclerolaena diacantha</i> (Grey Copperburr)			
440.	2633 <i>Sclerolaena uniflora</i> (Two-spined Saltbush)			
441.	12280 <i>Senna artemisioides</i> subsp. <i>oligophylla</i>			
442.	12305 <i>Senna glutinosa</i> subsp. <i>chatelainiana</i>			
443.	12312 <i>Senna notabilis</i>			
444.	4196 <i>Sesbania cannabina</i> (Sesbania Pea)			
445.	4198 <i>Sesbania formosa</i> (White Dragon Tree)			
446.	2818 <i>Sesuvium portulacastrum</i>			
447.	606 <i>Setaria dielsii</i> (Diels' Pigeon Grass)			
448.	613 <i>Setaria verticillata</i> (Whorled Pigeon Grass)	Y		
449.	31758 <i>Sida arsinjata</i>			
450.	4977 <i>Sida fibulifera</i> (Silver Sida)			
451.	18149 <i>Sida rohlenae</i> subsp. <i>rohlenae</i>			
452.	6998 <i>Solanum cleistogamum</i>			
453.	7002 <i>Solanum diversiflorum</i>			
454.	7014 <i>Solanum horridum</i>			
455.	7018 <i>Solanum lasiophyllum</i> (Flannel Bush, Mindjulu)			
456.	7029 <i>Solanum phlomoides</i>			
457.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
458.	619 <i>Sorghum plumosum</i> (Plume Canegrass)			

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459.	625 <i>Spinifex longifolius</i> (Beach Spinifex)			
460.	629 <i>Sporobolus australasicus</i> (Fairy Grass)			
461.	633 <i>Sporobolus mitchellii</i> (Ratstail Couch)			
462.	<i>Sporobolus</i> sp.			
463.	635 <i>Sporobolus virginicus</i> (Marine Couch)			
464.	27310 <i>Spyridia filamentosa</i>			
465.	17295 <i>Stemodia</i> sp. Onslow (A.A. Mitchell 76/148)			
466.	8235 <i>Streptoglossa bubakii</i>			
467.	8237 <i>Streptoglossa decurrens</i>			
468.	8238 <i>Streptoglossa liatroides</i>			
469.	8239 <i>Streptoglossa macrocephala</i>			
470.	8240 <i>Streptoglossa odora</i>			
471.	12492 <i>Striga squamigera</i>			
472.	3182 <i>Stylobasium spathulatum</i> (Pebble Bush)			
473.	12353 <i>Stylosanthes hamata</i> (Verano Stylo)	Y		
474.	2638 <i>Suaeda arbusculoides</i>			
475.	43203 <i>Surreya diandra</i>			
476.	4231 <i>Swainsona kingii</i>			
477.	4233 <i>Swainsona leeana</i>			
478.	4242 <i>Swainsona pterostylis</i>			
479.	13587 <i>Swainsona tanamiensis</i>			
480.	7363 <i>Synaptantha tillaeacea</i>			
481.	13339 <i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>			
482.	48206 <i>Synostemon rhytidospermus</i>			
483.	15741 <i>Tamarix aphylla</i> (Athe Tree)	Y		
484.	31616 <i>Tecticornia auriculata</i>			
485.	33236 <i>Tecticornia halocnemoides</i> (Shrubby Samphire)			
486.	33237 <i>Tecticornia halocnemoides</i> subsp. <i>halocnemoides</i>			
487.	33238 <i>Tecticornia halocnemoides</i> subsp. <i>tenuis</i>			
488.	33317 <i>Tecticornia indica</i>			
489.	33319 <i>Tecticornia indica</i> subsp. <i>bidens</i>			
490.	33318 <i>Tecticornia indica</i> subsp. <i>leiostachya</i> (Samphire)			
491.	33296 <i>Tecticornia pergranulata</i>			
492.	33220 <i>Tecticornia pterygosperma</i> subsp. <i>denticulata</i>			
493.	49017 <i>Tephrosia gardneri</i>			
494.	<i>Tephrosia rosea</i> var. ?			
495.	19531 <i>Tephrosia rosea</i> var. <i>clementii</i>			
496.	15947 <i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)			
497.	42442 <i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)			
498.	4286 <i>Tephrosia uniovulata</i>			
499.	5300 <i>Terminalia canescens</i> (Joolal)			
500.	169 <i>Thalassia hemprichii</i>			
501.	2644 <i>Threlkeldia diffusa</i> (Coast Bonefruit)			
502.	46756 <i>Thysanotus exfimbriatus</i>			
503.	35182 <i>Titanophora pikeana</i>			
504.	27335 <i>Tolyptocladia calodictyon</i>			
505.	27336 <i>Tolyptocladia glomerulata</i>			
506.	19053 <i>Trachymene pilbarensis</i>			
507.	44305 <i>Trianthema pilosum</i>			
508.	44362 <i>Trianthema triquetrum</i>			
509.	44360 <i>Trianthema turgidifolium</i>			
510.	4377 <i>Tribulus hirsutus</i>			
511.	4378 <i>Tribulus hystrix</i>			
512.	4380 <i>Tribulus occidentalis</i> (Perennial Caltrop)			
513.	4381 <i>Tribulus platypterus</i> (Cork Hobbush)			
514.	4383 <i>Tribulus terrestris</i> (Caltrop)	Y		
515.	6727 <i>Trichodesma zeylanicum</i> (Camel Bush, Kumbalin)			
516.	13559 <i>Trichodesma zeylanicum</i> var. <i>grandiflorum</i>			
517.	27340 <i>Tricleocarpa cylindrica</i>			
518.	27341 <i>Tricleocarpa fragilis</i>			
519.	8252 <i>Tridax procumbens</i> (Tridax, Tridax Daisy)	Y		
520.	145 <i>Triglochin hexagona</i> (Six-point Arrowgrass)			
521.	679 <i>Triodia angusta</i>			
522.	<i>Triodia basedowii/lanigera</i>			
523.	13131 <i>Triodia epactia</i>			
524.	48467 <i>Triodia glabra</i>			
525.	696 <i>Triodia pungens</i> (Soft Spinifex)			
526.	17873 <i>Triodia schinzii</i>			
527.	706 <i>Triraphis mollis</i> (Needle Grass)			
528.	13481 <i>Triumfetta ramosa</i>			

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529.	27348 <i>Udotea argentea</i>			
530.	27349 <i>Udotea flabellum</i>			
531.	35260 <i>Ulva compressa</i>			
532.	45962 <i>Ulva kraftiorum</i>			
533.	27354 <i>Ulva rigida</i>			
534.	11321 <i>Urochloa holosericea</i> subsp. <i>velutina</i>			
535.	717 <i>Urochloa piligera</i>			
536.	30716 <i>Vachellia farnesiana</i> (Mimosa Bush)	Y		
537.	46438 <i>Valonia ventricosa</i>			
538.	27357 <i>Valoniopsis pachynema</i>			
539.	6081 <i>Verticordia forrestii</i> (Forrest's Featherflower)			
540.	4323 <i>Vigna lanceolata</i> (Maloga Vigna, Wega)			
541.	31391 <i>Vigna</i> sp. <i>Hammersley Clay</i> (A.A. Mitchell PRP 113)			
542.	7393 <i>Wahlenbergia tumidifruca</i>			
543.	17910 <i>Washingtonia filifera</i>	Y		
544.	725 <i>Whiteochloa airoides</i>			
545.	728 <i>Whiteochloa cymbiformis</i>			
546.	27368 <i>Wrangelia plumosa</i>			
547.	732 <i>Yakirra australiensis</i>			
548.	11894 <i>Yakirra australiensis</i> var. <i>australiensis</i>			
549.	4847 <i>Ziziphus mauritiana</i> (Zornia)	Y		
550.	4326 <i>Zornia albiflora</i>			

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 3
 4 - Priority 4
 5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly 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 Guest user on 14/07/2021

Kingdom	Animalia
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Circle'
Centre	115° 06' 29" E, 21° 38' 09" S
Buffer	20km

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1.	? ?			
2.	<i>Ablenes hians</i>			
3.	<i>Abudefduf bengalensis</i>			
4.	24559 <i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)			
5.	<i>Acanthocephala abbreviata</i>			
6.	<i>Acanthopagrus latus</i>			
7.	<i>Acanthopagrus palmaris</i>			
8.	25243 <i>Acanthopis pyrrhus</i> (Desert Death Adder)			
9.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
10.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
11.	<i>Acentrogobius viridipunctatus</i>			
12.	<i>Achnanthis minutissima</i> (Kütz.) Czarnecki			
13.	25751 <i>Acridotheres tristis</i> (Common Myna)	Y		
14.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
15.	<i>Adventor elongatus</i>			
16.	<i>Adversaeschna brevistyla</i>			
17.	25544 <i>Aegotheles cristatus</i> (Australian Owllet-nightjar)			
18.	<i>Agraptocorixa parvipunctata</i>			
19.	<i>Agraptocorixa</i> sp.			
20.	25355 <i>Aipysurus laevis</i> (Olive Seasnake)			
21.	<i>Alectis indica</i>			
22.	<i>Allodessus bistrigatus</i>			
23.	<i>Alona cf. rectangula</i> (but may be > 1 spp.)			
24.	<i>Alona rectangula novaezealandiae</i>			
25.	<i>Ambassis agassizi</i>			
26.	<i>Ambassis gymnocephalus</i>			
27.	<i>Amniataba caudavittata</i>			
28.	<i>Amniataba percoides</i>			
29.	<i>Amniataba percoides?</i>			Y
30.	30831 <i>Amphibolurus gilberti</i> (Ta-ta, Gilbert's Dragon)			
31.	30833 <i>Amphibolurus longirostris</i> (Long-nosed Dragon)			
32.	<i>Aname ellenae</i>			
33.	24312 <i>Anas gracilis</i> (Grey Teal)			
34.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
35.	<i>Anax papuensis</i>			
36.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
37.	<i>Anisops canaliculatus</i>			
38.	<i>Anisops nasutus</i>			
39.	<i>Anisops paraexigerus</i>			
40.	<i>Anisops</i> sp.			
41.	<i>Anisops stali</i>			
42.	<i>Anisops thienemanni</i>			
43.	<i>Anomooneis brachysira</i> (Bréb.) Grun.			
44.	<i>Anopheles annulipes</i> s.l.			
45.	25448 <i>Antaresia stimsoni</i> (Stimson's Python)			
46.	25241 <i>Antaresia stimsoni</i> subsp. <i>stimsoni</i> (Stimson's Python)			
47.	25670 <i>Anthus australis</i> (Australian Pipit)			
48.	<i>Apistus carinatus</i>			
49.	<i>Apogon rueppellii</i>			
50.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
51.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
52.	<i>Arcella</i> sp. P1			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
53.	25557 <i>Ardea garzetta</i> (Little Egret)			
54.	24337 <i>Ardea garzetta</i> subsp. <i>nigripes</i> (Little Egret)			
55.	25558 <i>Ardea ibis</i> (Cattle Egret)			
56.	25559 <i>Ardea intermedia</i> (Intermediate Egret)			
57.	41324 <i>Ardea modesta</i> (great egret, white egret)			
58.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
59.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
60.	25560 <i>Ardea sacra</i> (Eastern Reef Egret, Eastern Reef Heron)			
61.	24610 <i>Ardeotis australis</i> (Australian Bustard)			
62.	<i>Areacandona 'undulata'</i> (PSS)			Y
63.	25736 <i>Arenaria interpres</i> (Ruddy Turnstone)		IA	
64.	<i>Argiocnemis rubescens</i>			
65.	<i>Arothron manilensis</i>			
66.	<i>Arrenurus (Arrenurus) balladoniensis</i>			
67.	<i>Arrhamphus sclerolepis</i>			
68.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
69.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
70.	25567 <i>Artamus leucorhynchus</i> (White-breasted Woodswallow)			
71.	24354 <i>Artamus leucorhynchus</i> subsp. <i>leucopygialis</i> (White-breasted Woodswallow)			
72.	24355 <i>Artamus minor</i> (Little Woodswallow)			
73.	24356 <i>Artamus personatus</i> (Masked Woodswallow)			
74.	25320 <i>Aspidites melanocephalus</i> (Black-headed Python)			
75.	<i>Assiculus punctatus</i>			
76.	<i>Atelomycterus fasciatus</i>			
77.	<i>Atherinid</i> sp.			
78.	<i>Atherinomorus endrachtensis</i>			
79.	<i>Atherinomorus vaigiensis</i>			
80.	<i>Aulacoseira ambigua</i>			
81.	<i>Aulacoseira granulata</i> (Ehr.) Simonsen			
82.	<i>Aulopus purpurissatus</i>			
83.	<i>Austrolestes aridus</i>			
84.	<i>Austronibeia oedegenys?</i>			Y
85.	<i>Austropeplea lessoni</i>			
86.	24318 <i>Aythya australis</i> (Hardhead)			
87.	<i>Baetidae</i> sp.			
88.	<i>Bathygobius cocosensis</i>			
89.	<i>Bathygobius fuscus</i>			
90.	<i>Bdelloidea</i> sp. 2:2			
91.	<i>Bdelloidea</i> sp. 3:3			
92.	<i>Bennelongia australis</i> OrdX (PSW)			
93.	<i>Bennelongia cb</i>			Y
94.	<i>Bennelongia minimus</i>			
95.	<i>Bennelongia nimala</i>			
96.	<i>Bennelongia triangulata</i> (ex sp 414 /460 (CB)			
97.	<i>Berosus nutans</i>			
98.	<i>Berosus pulchellus</i>			
99.	<i>Berosus</i> sp.			
100.	<i>Blennodesmus scapularis</i>			
101.	<i>Bodianus frenchii</i>			
102.	<i>Boeckella triarticulata</i>			
103.	24251 <i>Bos taurus</i> (European Cattle)	Y		
104.	<i>Brachionus dichotomus</i>			
105.	<i>Brachionus falcatus</i>			
106.	<i>Brachionus leydigii</i>			
107.	<i>Brachionus quadridentatus</i>			
108.	<i>Branchinella halsei</i>			
109.	24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)			
110.	<i>Butis amboinensis</i>			
111.	47897 <i>Butorides striata</i> (Striated Heron, Mangrove Heron)			
112.	25715 <i>Cacatua roseicapilla</i> (Galah)			
113.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
114.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
115.	24269 <i>Calamanthus campestris</i> (Rufous Fieldwren)			
116.	<i>Calamoecia baylyi</i> (Cue form) (ex nr lucasi CB)			
117.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
118.	24780 <i>Calidris alba</i> (Sanderling)		IA	
119.	24783 <i>Calidris canutus</i> subsp. <i>rogersi</i> (Red Knot (north-eastern Siberia))		T	
120.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
121.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
122.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
123.	24790 <i>Calidris tenuirostris</i> (Great Knot)		T	
124.	<i>Canthigaster coronata</i>			
125.	<i>Caranx ignobilis</i>			
126.	<i>Caranx sexfasciatus</i>			
127.	25335 <i>Caretta caretta</i> (Loggerhead Turtle)		T	
128.	<i>Ceriodaphnia cornuta</i>			
129.	24564 <i>Certhionyx variegatus</i> (Pied Honeyeater)			
130.	24181 <i>Chaerephon jobensis</i> (Greater Northern Freetail-bat, Northern Mastiff Bat)			
131.	<i>Chaetodontoplus duboulayi</i>			
132.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
133.	<i>Chanos chanos</i>			
134.	25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)		T	
135.	24372 <i>Charadrius leschenaultii</i> subsp. <i>leschenaultii</i> (Greater Sand Plover (Mongolian))		T	
136.	25576 <i>Charadrius mongolus</i> (Lesser Sand Plover)		T	
137.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
138.	24378 <i>Charadrius veredus</i> (Oriental Plover)		IA	
139.	25336 <i>Chelonia mydas</i> (Green Turtle)		T	
140.	<i>Chelonodon patoca</i>			
141.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
142.	47909 <i>Cheramoeca leucosterna</i> (White-backed Swallow)			
143.	<i>Chimarra</i> sp AV17 (PSW)			
144.	<i>Chirocentrus dorab</i>			
145.	41332 <i>Chlidonias leucopterus</i> (White-winged Black Tern, white-winged tern)		IA	
146.	<i>Choerodon cyanodus</i>			
147.	<i>Chroicocephalus novaehollandiae</i>			
148.	24431 <i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)			
149.	24434 <i>Chrysococcyx osculans</i> (Black-eared Cuckoo)			
150.	24288 <i>Circus approximans</i> (Swamp Harrier)			
151.	24289 <i>Circus assimilis</i> (Spotted Harrier)			
152.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
153.	<i>Cloeon</i> sp.			
154.	<i>Cloeon</i> sp. P1 (PSW)			
155.	<i>Cocconeis placentula</i> var. <i>euglypta</i> ehr.			
156.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
157.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
158.	<i>Colurodonis paxmani</i>			
159.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
160.	<i>Coradion chrysozonus</i>			
161.	<i>Coris aygula</i>			
162.	24416 <i>Corvus bennetti</i> (Little Crow)			
163.	25593 <i>Corvus orru</i> (Torresian Crow)			
164.	24671 <i>Coturnix pectoralis</i> (Stubble Quail)			
165.	25701 <i>Coturnix ypsilophora</i> (Brown Quail)			
166.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
167.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
168.	<i>Cracticus tibicen</i> subsp. <i>longirostris</i>			Y
169.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
170.	<i>Craterocephalus capreoli</i>			
171.	<i>Craticula cuspidata</i> (Grun. ex. Van Heurck) Mann			
172.	<i>Craticula halophila</i> (Grun. ex. Van Heurck) Mann			
173.	24859 <i>Crocodylus porosus</i> (Salt-water Crocodile)		S	
174.	<i>Cryptochironomus griseidorsum</i>			
175.	<i>Cryptoerithus occultus</i>			
176.	25458 <i>Ctenophorus caudicinctus</i> (Ring-tailed Dragon)			
177.	24865 <i>Ctenophorus caudicinctus</i> subsp. <i>caudicinctus</i> (Ring-tailed Dragon)			
178.	24872 <i>Ctenophorus femoralis</i> (Dune Dragon)			
179.	25459 <i>Ctenophorus isolepis</i> (Crested Dragon, Military Dragon)			
180.	24875 <i>Ctenophorus isolepis</i> subsp. <i>gularis</i> (Central Military Dragon)			
181.	24876 <i>Ctenophorus isolepis</i> subsp. <i>isolepis</i> (Crested Dragon, Military Dragon)			
182.	24882 <i>Ctenophorus nuchalis</i> (Central Netted Dragon)			
183.	24885 <i>Ctenophorus rubens</i> (Red Dragon)			
184.	24887 <i>Ctenophorus rufescens</i> (Red Rock Dragon)			
185.	<i>Ctenotrypauchen microcephalus</i>			
186.	25032 <i>Ctenotus calurus</i>			
187.	25462 <i>Ctenotus grandis</i>			
188.	25043 <i>Ctenotus grandis</i> subsp. <i>titan</i>			
189.	25044 <i>Ctenotus hanloni</i>			
190.	25046 <i>Ctenotus iapetus</i>			
191.	25053 <i>Ctenotus maryani</i>			
192.	25463 <i>Ctenotus pantherinus</i> (Leopard Ctenotus)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
193.	25064 <i>Ctenotus pantherinus</i> subsp. <i>ocellifer</i> (Leopard Ctenotus)			
194.	25066 <i>Ctenotus quattuordecimlineatus</i>			
195.	25069 <i>Ctenotus rufescens</i>			
196.	25073 <i>Ctenotus saxatilis</i> (Rock Ctenotus)			
197.	25074 <i>Ctenotus schomburgkii</i>			
198.	<i>Culicoides</i> sp.			
199.	<i>Cybister tripunctatus</i>			
200.	25375 <i>Cyclorana maini</i> (Sheep Frog)			
201.	25376 <i>Cyclorana platycephala</i> (Water-holding Frog)			
202.	24322 <i>Cygnus atratus</i> (Black Swan)			
203.	<i>Cylotella menghiniana</i> Kütz.			
204.	<i>Cymbacephalus staigeri</i> ?			
205.	<i>Cypretta 'triangulum'</i>			
206.	<i>Cypretta ?lutea</i>			
207.	<i>Cypretta baylyi</i>			
208.	<i>Cypricerus salinus</i>			
209.	<i>Cypricerus</i> sp. 422 (CB)			
210.	<i>Cypricerus</i> sp. 442 (CB)			
211.	25547 <i>Dacelo leachii</i> (Blue-winged Kookaburra)			
212.	24304 <i>Dacelo leachii</i> subsp. <i>leachii</i> (Blue-winged Kookaburra)			
213.	<i>Dactylopus dactylopus</i>			
214.	<i>Daphnia carinata</i>			
215.	24091 <i>Dasykaluta rosamondae</i> (Little Red Kaluta)			
216.	24093 <i>Dasyurus hallucatus</i> (Northern Quoll)		T	
217.	25000 <i>Delma haroldi</i>			
218.	25001 <i>Delma nasuta</i>			
219.	25004 <i>Delma tincta</i>			
220.	25468 <i>Demansia psammophis</i> (Yellow-faced Whipsnake)			
221.	25295 <i>Demansia psammophis</i> subsp. <i>cupreiceps</i> (Yellow-faced Whipsnake)			
222.	<i>Dicranophorus epicharis</i>			
223.	<i>Dicrotendipes</i> sp P4 (PSW)			
224.	<i>Diffugia</i> sp. P1			
225.	<i>Dineutus australis</i>			
226.	<i>Diplacodes bipunctata</i>			
227.	<i>Diplacodes haematodes</i>			
228.	47932 <i>Diplodactylus bilybara</i> (Western Fat-tailed Gecko)			
229.	24926 <i>Diplodactylus conspicillatus</i> (Fat-tailed Gecko)			
230.	42400 <i>Diporiphora adductus</i> (Carnarvon Dragon)			
231.	<i>Drepane punctata</i>			
232.	24470 <i>Dromaius novaehollandiae</i> (Emu)			
233.	<i>Drombus triangularis</i>			
234.	24084 <i>Dugong dugon</i> (Dugong)		S	
235.	<i>Echeneis naucrates</i>			
236.	<i>Egretta novaehollandiae</i>			
237.	<i>Elanus axillaris</i>			
238.	25540 <i>Elanus caeruleus</i> (Black-shouldered Kite)			
239.	<i>Elops hawaiiensis</i>			
240.	47937 <i>Euseyornis melanops</i> (Black-fronted Dotterel)			
241.	24631 <i>Emblema pictum</i> (Painted Finch)			
242.	<i>Engraulis australis</i> ?			Y
243.	<i>Enochrus deserticola</i>			
244.	<i>Eolophus roseicapillus</i>			
245.	25362 <i>Ephalophis greyae</i>			
246.	24387 <i>Ephippiorhynchus asiaticus</i> subsp. <i>australis</i> (Black-necked Stork)			
247.	<i>Epinephelus ambycephalus</i>			
248.	<i>Epinephelus corallicola</i>			
249.	<i>Epinephelus lanceolatus</i>			
250.	<i>Epinephelus malabaricus</i>			
251.	<i>Epinephelus multinotatus</i>			
252.	<i>Epinephelus quoyanus</i>			
253.	<i>Epinephelus rankini</i> (invalid)			Y
254.	<i>Epinephelus rivulatus</i>			
255.	<i>Epinephelus sexfasciatus</i>			
256.	<i>Epinephelus</i> sp.			
257.	<i>Epinephelus tauvina</i>			
258.	<i>Epistylis</i> sp			
259.	24568 <i>Epthianura aurifrons</i> (Orange Chat)			
260.	24570 <i>Epthianura tricolor</i> (Crimson Chat)			
261.	24258 <i>Equus caballus</i> (Horse)	Y		
262.	43381 <i>Eremiascincus pallidus</i> (Western Narrow-banded Skink, Narrow-banded Sand)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
	Swimmer)			
263.	24837 <i>Eremiornis carteri</i> (Spinifex-bird)			
264.	<i>Eretes australis</i>			
265.	25473 <i>Eretmochelys imbricata</i> (Hawksbill Turtle)		T	
266.	24379 <i>Erythronyx cinctus</i> (Red-kneed Dotterel)			
267.	47938 <i>Esacus magnirostris</i> (Beach Stone-curlew, Beach Thick-knee)			
268.	<i>Escualosa thoracata</i>			Y
269.	24043 <i>Eubalaena australis</i> (Southern Right Whale)		T	
270.	<i>Euglypha</i> sp.			
271.	<i>Eunotia bilunaris</i> (Ehr.) Mills.			
272.	<i>Eunotia pectinatus</i> (Dillw.) Rabh.			
273.	24368 <i>Eurostopodus argus</i> (Spotted Nightjar)			
274.	<i>Eurypegasus draconis</i>			
275.	<i>Eurysticta coolawanyah</i>			
276.	25621 <i>Falco berigora</i> (Brown Falcon)			
277.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
278.	24472 <i>Falco cenchroides</i> subsp. <i>cenchrionides</i> (Australian Kestrel, Nankeen Kestrel)			
279.	25623 <i>Falco longipennis</i> (Australian Hobby)			
280.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
281.	24476 <i>Falco subniger</i> (Black Falcon)			
282.	24041 <i>Felis catus</i> (Cat)	Y		
283.	<i>Feroxodon multistriatus</i>			
284.	<i>Fistularia petimba</i>			
285.	25327 <i>Fordonia leucobalia</i> (White-bellied Mangrove Snake)			
286.	<i>Fragilaria ulna</i> (Nitz.) Lange Bertalot			
287.	25727 <i>Fulica atra</i> (Eurasian Coot)			
288.	25301 <i>Furina ornata</i> (Moon Snake)			
289.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
290.	42314 <i>Gavialis virescens</i> (Singing Honeyeater)			
291.	24952 <i>Gehyra australis</i>			
292.	24956 <i>Gehyra pilbara</i>			
293.	24958 <i>Gehyra punctata</i>			
294.	24957 <i>Gehyra purpurascens</i>			
295.	24959 <i>Gehyra variegata</i>			
296.	47954 <i>Gelochelidon nilotica</i> (Gull-billed Tern)		IA	
297.	24401 <i>Geopelia cuneata</i> (Diamond Dove)			
298.	24402 <i>Geopelia humeralis</i> (Bar-shouldered Dove)			
299.	25585 <i>Geopelia striata</i> (Zebra Dove)			
300.	24403 <i>Geopelia striata</i> subsp. <i>placida</i> (Peaceful Dove)			
301.	24404 <i>Geophaps plumifera</i> (Spinifex Pigeon)			
302.	<i>Gerres filamentosus</i>			
303.	<i>Gerres oyena</i>			
304.	<i>Gerres</i> sp.			
305.	<i>Gerres subfasciatus</i>			
306.	25531 <i>Gerygone levigaster</i> (Mangrove Gerygone)			
307.	24276 <i>Gerygone tenebrosa</i> (Dusky Gerygone)			
308.	24481 <i>Glareola maldivarum</i> (Oriental Pratincole)		IA	
309.	<i>Gomphonema parvulum</i> (Kütz.) Kütz.			
310.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
311.	24484 <i>Grus rubicunda</i> (Brolga)			
312.	<i>Gymnothorax undulatus</i>			
313.	25627 <i>Haematopus fuliginosus</i> (Sooty Oystercatcher)			
314.	24487 <i>Haematopus longirostris</i> (Pied Oystercatcher)			
315.	24293 <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			
316.	25541 <i>Haliastur indus</i> (Brahminy Kite)			
317.	24294 <i>Haliastur indus</i> subsp. <i>girrenera</i> (Brahminy Kite)			
318.	24295 <i>Haliastur sphenurus</i> (Whistling Kite)			
319.	<i>Haliplus</i> sp.			
320.	<i>Halophryne diemensis</i>			
321.	<i>Halophryne ocellatus</i>			
322.	24297 <i>Hamirostra melanosternon</i> (Black-breasted Buzzard)			
323.	<i>Hantzschia amphioxys</i> (Ehr.) Grun.			
324.	<i>Hemicordulia tau</i>			
325.	<i>Hemicypris megalops</i>			
326.	25232 <i>Hemidactylus frenatus</i> (Asian House Gecko)	Y		
327.	<i>Hemigaleus australiensis</i>			
328.	<i>Hemigaleus</i> sp.			
329.	<i>Hemiramphus robustus</i>			
330.	<i>Herklotsichthys blackburni</i>			
331.	<i>Herklotsichthys collettei</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
332.	<i>Herklotsichthys collettei?</i>			Y
333.	<i>Herklotsichthys koningsbergeri</i>			
334.	<i>Herklotsichthys quadrimaculatus</i>			Y
335.	24961 <i>Heteronotia binoei</i> (Bynoe's Gecko)			
336.	<i>Hexarthra mira</i>			
337.	47965 <i>Hieraetus morphnoides</i> (Little Eagle)			
338.	<i>Hilsa kelee?</i>			Y
339.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
340.	24775 <i>Himantopus himantopus subsp. leucocephalus</i> (Black-winged Stilt)			
341.	<i>Hippocampus</i> sp.			
342.	<i>Hippocampus tuberculatus</i>			
343.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
344.	25630 <i>Hirundo rustica</i> (Barn Swallow)		IA	
345.	<i>Holconia westralia</i>			
346.	<i>Hydrachna</i> sp. 4/5 (PSW)			
347.	<i>Hydroglyphus grammopterus</i> (=trilineatus)			
348.	<i>Hydroglyphus leai</i>			
349.	44656 <i>Hydrophis major</i> (Olive-headed seasnake, greater seasnake)			
350.	42410 <i>Hydrophis ornatus</i> (Ornate Reef Seasnake, Sea Snake)			
351.	43385 <i>Hydrophis stokesii</i> (Stoke's Seasnake, Sea Snake)			
352.	48587 <i>Hydroprogne caspia</i> (Caspian Tern)		IA	
353.	<i>Hydropsychidae</i> sp.			
354.	<i>Hyphyrus</i> sp.			
355.	<i>Hypopterus macropterus</i>			
356.	<i>Ilyocypris 'spiculata' (ms name)</i> (SAP)			
357.	<i>Ilyodromus</i> sp. PB			
358.	<i>Inimicus sinensis</i>			
359.	<i>Ischnura aurora aurora</i>			
360.	<i>Isidorella egraria</i>			
361.	<i>Isocypris williamsi</i> (ex <i>Ilyodromus</i> sp. 413)			
362.	<i>Istiblennius meleagris</i>			
363.	<i>Keratella procurva</i>			
364.	<i>Keratella tropica</i>			
365.	<i>Laccophilus sharpi</i>			
366.	<i>Lactoria cornuta</i>			
367.	<i>Lactoria diaphana</i>			
368.	24367 <i>Lalage tricolor</i> (White-winged Triller)			
369.	<i>Lampona ampeinna</i>			
370.	<i>Lamponina scutata</i>			
371.	25637 <i>Larus novaehollandiae</i> (Silver Gull)			
372.	<i>Latonopsis brehmi</i>			
373.	<i>Lecane cf. pertica</i>			Y
374.	<i>Lecane halsei</i>			
375.	<i>Lecane n. sp. psw031</i> (like <i>signifera</i> but tall)			Y
376.	24217 <i>Leggadina lakedownensis</i> (Northern Short-tailed Mouse, Lakeland Downs Mouse, Kerakenga)		P4	
377.	<i>Leiognathus decorus</i>			
378.	<i>Leiognathus equulus</i>			
379.	25343 <i>Lepidochelys olivacea</i> (Olive Ridley Turtle, Pacific Ridley Turtle)		T	
380.	25124 <i>Lerista baynesi</i>			
381.	25125 <i>Lerista bipes</i>			
382.	30928 <i>Lerista clara</i>			
383.	25133 <i>Lerista elegans</i>			
384.	25158 <i>Lerista onslowiana</i>			
385.	25164 <i>Lerista planiventralis subsp. maryani</i> (Maryan's keeled slider (Ashburton), Keeled Slider (NW coast Onslow to Barradale))		P1	
386.	<i>Lethocerus distinctifemur</i>			
387.	<i>Lethrinus</i> sp.			
388.	25005 <i>Lialis burtonis</i>			
389.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
390.	24582 <i>Lichmera indistincta subsp. indistincta</i> (Brown Honeyeater)			
391.	<i>Limnesia</i> sp. 4 (PSW)			
392.	<i>Limnocytheridae n.gen. sp 419</i> (CB)			
393.	30932 <i>Limosa lapponica</i> (Bar-tailed Godwit)		IA	
394.	24796 <i>Limosa lapponica subsp. menzbieri</i> (Bar-tailed Godwit (northern Siberian))		T	
395.	25380 <i>Litoria caerulea</i> (Green Tree Frog)			
396.	25392 <i>Litoria rubella</i> (Little Red Tree Frog)			
397.	<i>Liza melinoptera</i>			
398.	<i>Liza</i> sp.			
399.	<i>Liza subviridis</i>			

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400.	<i>Liza vaigiensis</i>			
401.	<i>Lophiocharon trisignatus</i>			
402.	30933 <i>Lucasium stenodactylum</i>			
403.	<i>Lutjanus argentimaculatus</i>			
404.	<i>Lutjanus erythropterus</i>			
405.	<i>Lutjanus fulviflamma</i>			
406.	<i>Lutjanus malabaricus</i>			
407.	<i>Lutjanus russellii</i>			
408.	25489 <i>Macropus robustus</i> (Euro, Biggada)			
409.	24136 <i>Macropus rufus</i> (Red Kangaroo, Marlu)			
410.	<i>Macrothrix indistincta</i>			
411.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
412.	25651 <i>Malurus lamberti</i> (Variegated Fairy-wren)			
413.	25652 <i>Malurus leucopterus</i> (White-winged Fairy-wren)			
414.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
415.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
416.	<i>Mastogloia smithii</i> Thwaites			
417.	<i>Megalaspis cordyla</i>			
418.	<i>Megalops cyprinoides</i>			
419.	47995 <i>Megalurus mathewsi</i> (Rufous Songlark)			
420.	<i>Megaporus</i> sp.			
421.	24051 <i>Megaptera novaeangliae</i> (Humpback Whale)		S	
422.	24736 <i>Melospittacus undulatus</i> (Budgerigar)			
423.	<i>Mene maculata</i>			
424.	25184 <i>Menetia greyii</i>			
425.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)			
426.	<i>Mesocyclops brooksi</i>			
427.	<i>Microcarbo melanoleucos</i>			
428.	<i>Microcyclops varicans</i>			
429.	<i>Micronecta gracilis</i>			
430.	<i>Micronecta</i> sp.			
431.	25542 <i>Milvus migrans</i> (Black Kite)			
432.	24298 <i>Milvus migrans</i> subsp. <i>affinis</i> (Black Kite)			
433.	25545 <i>Mirafra javanica</i> (Horsfield's Bushlark, Singing Bushlark)			
434.	24302 <i>Mirafra javanica</i> subsp. <i>horsfieldii</i> (Horsfield's Bushlark, Singing Bushlark)			
435.	<i>Moina</i> cf. <i>australiensis</i> (CB)			
436.	<i>Moina micrura</i> s.l.			
437.	<i>Mugil cephalus</i>			
438.	<i>Muraenesox cinereus</i>			
439.	24223 <i>Mus musculus</i> (House Mouse)	Y		
440.	25344 <i>Natator depressus</i> (Flatback Turtle)		T	
441.	<i>Navicula cryptonella</i> Lange-Bertalot			
442.	<i>Navicula molestiformis</i> Hust.			
443.	<i>Nematalosa come</i>			
444.	<i>Nematalosa</i> sp.			
445.	<i>Nematalosa vlaminghi</i>			
446.	<i>Nematoda</i> sp. P6 (PSW)			
447.	25422 <i>Neobatrachus aquilonius</i> (Northern Burrowing Frog)			
448.	25424 <i>Neobatrachus fulvus</i> (Tawny Trilling Frog)			
449.	25685 <i>Neochmia ruficauda</i> (Star Finch)			
450.	<i>Neopomacentrus filamentosus</i>			
451.	<i>Neothrix armata</i>			
452.	25497 <i>Nephrurus levis</i>			
453.	24968 <i>Nephrurus levis</i> subsp. <i>occidentalis</i>			
454.	24969 <i>Nephrurus levis</i> subsp. <i>pilbarensis</i>			
455.	<i>Netuma thalassina</i>			Y
456.	<i>Nilobezzia</i> sp. P2 (PSW)			
457.	24095 <i>Ningau timealeyi</i> (Pilbara Ningau)			
458.	<i>Nitzschia filiformis</i> (W. Sm.) Van Heurck			
459.	<i>Nitzschia frustulum</i> (Kütz.) Grun.			
460.	<i>Nitzschia palea</i> (Kütz.) W. Sm.			
461.	<i>Nitzschia sigma</i> (Kütz.) W. Sm.			
462.	<i>Nitzschia umbonata</i> (Ehr.) Lange-Bertalot			
463.	25430 <i>Notaden nicholli</i> (Desert Spadefoot)			
464.	24224 <i>Notomys alexis</i> (Spinifex Hopping-mouse)			
465.	24798 <i>Numenius madagascariensis</i> (Eastern Curlew)		T	
466.	24799 <i>Numenius minutus</i> (Little Curlew, Little Whimbrel)		IA	
467.	25742 <i>Numenius phaeopus</i> (Whimbrel)		IA	
468.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
469.	24742 <i>Nymphicus hollandicus</i> (Cockatiel)			

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470.	24497 <i>Oceanites oceanicus</i> (Wilson's Storm-petrel)		IA	
471.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
472.	<i>Oecetis</i> sp.			
473.	<i>Oecetis</i> sp. Pilbara 5 (PSW)			
474.	<i>Omobranchus punctatus</i>			
475.	41347 <i>Onychoprion anaethetus</i> (Bridled Tern)		IA	
476.	<i>Ophichthus cephalozona</i>			
477.	24060 <i>Orcaella heinsohni</i> (Australian Snubfin Dolphin)		P4	
478.	24618 <i>Oreoica gutturalis</i> (Crested Bellbird)			
479.	<i>Orthetrum caledonicum</i>			
480.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
481.	<i>Ostracoda</i> (unident.)			
482.	<i>Ozestheria packardi</i>			
483.	24620 <i>Pachycephala lanioides</i> (White-breasted Whistler)			
484.	24621 <i>Pachycephala melanura</i> subsp. <i>melanura</i> (Mangrove Golden Whistler)			
485.	48591 <i>Pandion cristatus</i> (Osprey, Eastern Osprey)		IA	
486.	<i>Pantala flavescens</i>			
487.	<i>Parachaeturichthys polynema</i>			
488.	<i>Paracymus spenceri</i>			
489.	<i>Paramecium</i> sp.			
490.	<i>Paraplagusia bilineata</i>			
491.	<i>Paraplotosus albilabris</i>			
492.	<i>Parastromateus niger</i>			
493.	24627 <i>Pardalotus rubricatus</i> (Red-browed Pardalote)			
494.	24642 <i>Passer montanus</i> (Eurasian Tree Sparrow)	Y		
495.	<i>Pelates octolineatus</i>			
496.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
497.	<i>Pellona ditchela</i>			
498.	<i>Pentapodus vitta</i>			
499.	<i>Periophthalmus argenteolineatus</i>			
500.	<i>Peristrominopus dolosus</i>			
501.	<i>Pescecyclus</i> sp. 442=462=465=CB2 (salinarum in Morton)			
502.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
503.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
504.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
505.	24743 <i>Pezoporos occidentalis</i> (Night Parrot)		T	
506.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
507.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
508.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
509.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
510.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
511.	24411 <i>Phaps histrionica</i> (Flock Bronzewing, Flock Pigeon)			
512.	<i>Pinnularia borealis</i>			
513.	<i>Pinnularia divergens</i> W. Sm.			
514.	<i>Pinnularia subrostrata</i> (A. Cl.) Cl.-Euler			
515.	<i>Pisodonophis cancrivorus</i>			
516.	24101 <i>Planigale ingrami</i> (Long-tailed Planigale)			
517.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
518.	24842 <i>Platalea regia</i> (Royal Spoonbill)			
519.	<i>Platax teira</i>			
520.	<i>Platycephalus indicus</i>			
521.	<i>Platycephalus</i> sp.			
522.	25721 <i>Platyercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
523.	<i>Plectorhinchus flavomaculatus</i>			
524.	<i>Plectorhinchus gibbosus</i>			
525.	<i>Plectorhinchus polytaenia</i>			
526.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
527.	<i>Plotosus lineatus</i>			
528.	24383 <i>Pluvialis squatarola</i> (Grey Plover)		IA	
529.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
530.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
531.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
532.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
533.	<i>Polyarthra dolichoptera</i>			
534.	<i>Polydactylus multiradiatus</i>			
535.	<i>Polydactylus plebius</i>			
536.	<i>Polypedilum leei</i>			
537.	<i>Pomadasys argenteus</i>			
538.	<i>Pomadasys kaakan</i>			
539.	<i>Pomatomus saltatrix</i>			

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540.	25706 <i>Pomastostomus temporalis</i> (Grey-crowned Babbler)			
541.	24684 <i>Pomastostomus temporalis</i> subsp. <i>rubeculus</i> (Grey-crowned Babbler)			
542.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
543.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
544.	34037 <i>Pristis zijsron</i> (Green Sawfish)		T	
545.	<i>Procladius paludicola</i>			
546.	<i>Psammoperca waigiensis</i>			
547.	<i>Psettodes erumei</i>			
548.	24105 <i>Pseudantechinus roryi</i> (Rory's Pseudantechinus)			
549.	25261 <i>Pseudechis australis</i> (Mulga Snake)			
550.	24233 <i>Pseudomys chapmani</i> (Western Pebble-mound Mouse, Ngadji)		P4	
551.	24235 <i>Pseudomys desertor</i> (Desert Mouse)			
552.	24237 <i>Pseudomys hermannsburgensis</i> (Sandy Inland Mouse)			
553.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
554.	25263 <i>Pseudonaja modesta</i> (Ringed Brown Snake)			
555.	25264 <i>Pseudonaja nuchalis</i> (Gwardar, Northern Brown Snake)			
556.	<i>Pseudorhombus argus</i>			
557.	<i>Pseudorhombus arsius</i>			
558.	24390 <i>Psophodes occidentalis</i> (Western Wedgebill, Chiming Wedgebill)			
559.	<i>Pterois antennata</i>			
560.	<i>Pterois volitans</i>			
561.	24173 <i>Pteropus scapulatus</i> (Little Red Flying-fox)			
562.	24716 <i>Puffinus pacificus</i> (Wedge-tailed Shearwater)		IA	
563.	25009 <i>Pygopus nigriceps</i>			
564.	<i>Rachycentron canadum</i>			
565.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
566.	24246 <i>Rattus tunneyi</i> (Pale Field-rat)			
567.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
568.	<i>Rheotanytarsus juliae</i>			
569.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
570.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
571.	24457 <i>Rhipidura phasiana</i> (Mangrove Grey Fantail)			
572.	24982 <i>Rhynchoedura ornata</i> (Western Beaked Gecko)			
573.	<i>Sardinella albella</i>			Y
574.	<i>Sardinella gibbosa</i>			
575.	<i>Sargocentron prasin</i>			
576.	<i>Sargocentron rubrum</i>			
577.	<i>Saurida nebulosa</i>			
578.	<i>Scomberoides commersonianus</i>			
579.	<i>Scomberoides lysan</i>			
580.	<i>Scomberoides lysan?</i>			Y
581.	<i>Scomberoides tol</i>			
582.	<i>Scomberomorus commerson</i>			
583.	<i>Scomberomorus queenslandicus</i>			
584.	<i>Scomberomorus semifasciatus</i>			
585.	<i>Selaroides leptolepis</i>			
586.	<i>Selenotoca multifasciata</i>			
587.	<i>Siganus fuscescens</i>			
588.	<i>Sillago analis</i>			
589.	<i>Sillago burrus</i>			
590.	<i>Sillago ingenuua?</i>			Y
591.	<i>Sillago lutea</i>			
592.	<i>Sillago sihama</i>			
593.	25305 <i>Simoselaps anomalus</i> (Desert Banded Snake)			
594.	30948 <i>Smicromis brevirostris</i> (Weebill)			
595.	24116 <i>Sminthopsis macroura</i> (Stripe-faced Dunnart)			
596.	24120 <i>Sminthopsis youngsoni</i> (Lesser Hairy-footed Dunnart)			
597.	48107 <i>Sousa sahalensis</i> (Australian humpback dolphin)		P4	
598.	<i>Sphyaena barracuda</i>			
599.	<i>Stauroneis anceps</i> Ehr.			
600.	<i>Staurosira construens</i> Ehr.			
601.	24521 <i>Sterna bengalensis</i> (Lesser Crested Tern)			
602.	24522 <i>Sterna bergii</i> (Crested Tern)			
603.	25640 <i>Sterna dougallii</i> (Roseate Tern)		IA	
604.	25642 <i>Sterna hirundo</i> (Common Tern)		IA	
605.	25643 <i>Sterna hybrida</i> (Whiskered Tern)			
606.	<i>Sternopriscus</i> sp.			
607.	48593 <i>Sternula albifrons</i> (Little Tern)		IA	
608.	48594 <i>Sternula nereis</i> (Fairy Tern)			
609.	24482 <i>Stiltia isabella</i> (Australian Pratincole)			

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610.	<i>Stolephorus carpentariae</i>			
611.	<i>Stolephorus commersonii</i>			
612.	<i>Strongylura strongylura</i>			
613.	24932 <i>Strophurus jeanae</i>			
614.	24942 <i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
615.	24946 <i>Strophurus strophurus</i>			
616.	<i>Supunna picta</i>			
617.	25269 <i>Suta fasciata</i> (Rosen's Snake)			
618.	25307 <i>Suta punctata</i> (Spotted Snake)			
619.	<i>Synanceia horrida</i>			
620.	<i>Tabanidae</i> sp.			
621.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
622.	24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
623.	30870 <i>Taeniopygia guttata</i> (Zebra Finch)			
624.	<i>Tasmanocoenis arcuata</i>			
625.	<i>Tasmanocoenis</i> sp. E (PSW)			
626.	<i>Tathicarpus butleri</i>			
627.	<i>Terapon jarbua</i>			
628.	<i>Terapon puta</i>			
629.	<i>Terapon thaeraps</i>			Y
630.	<i>Terapon theraps</i>			
631.	<i>Testudinella</i> cf <i>trilobata</i> (=sp P3 PSW)			
632.	<i>Testudinella patina</i>			
633.	<i>Thalasseus bengalensis</i>			
634.	48597 <i>Thalasseus bergii</i> (Crested Tern)		IA	
635.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
636.	<i>Thryssa mystax?</i>			
637.	<i>Thryssa scratchleyi?</i>			
638.	<i>Thryssa setirostris</i>			
639.	25202 <i>Tiliqua multifasciata</i> (Central Blue-tongue)			
640.	25548 <i>Todiramphus chloris</i> (Collared Kingfisher)			
641.	24306 <i>Todiramphus chloris</i> subsp. <i>pilbara</i> (Pilbara Collared Kingfisher)			
642.	42351 <i>Todiramphus pyrrhopygius</i> (Red-backed Kingfisher)			
643.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
644.	<i>Trachinotus baillonii</i>			
645.	<i>Triacanthus biaculeatus</i>			
646.	<i>Trichocerca</i> cf. <i>tigris</i>			Y
647.	<i>Trichocerca similis</i>			
648.	<i>Trichocerca tigris</i>			
649.	24803 <i>Tringa brevipes</i> (Grey-tailed Tattler)		P4	
650.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
651.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
652.	<i>Triops australiensis australiensis</i>			
653.	<i>Triplectides australis</i>			
654.	<i>Turbellaria</i> sp.			
655.	24848 <i>Turnix pyrrhotorax</i> (Red-chested Button-quail)			
656.	24851 <i>Turnix velox</i> (Little Button-quail)			
657.	30954 <i>Tursiops aduncus</i> (Indo-Pacific Bottlenose Dolphin)			
658.	25762 <i>Tyto alba</i> (Barn Owl)			
659.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
660.	25209 <i>Varanus acanthurus</i> (Spiny-tailed Monitor)			
661.	25210 <i>Varanus breviceuda</i> (Short-tailed Pygmy Monitor)			
662.	25211 <i>Varanus caudolineatus</i>			
663.	25212 <i>Varanus eremius</i> (Pygmy Desert Monitor)			
664.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
665.	25524 <i>Varanus panoptes</i> (Yellow-spotted Monitor)			
666.	25223 <i>Varanus panoptes</i> subsp. <i>rubidus</i>			
667.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
668.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
669.	<i>Wyndura kennedy</i>			
670.	<i>Xanthagrin erythronerum</i>			
671.	<i>Xyrichtys</i> sp.			
672.	<i>Yongeichthys nebulosus</i>			
673.	<i>Zabidius novemaculeatus</i>			
674.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
675.	24857 <i>Zosterops luteus</i> (Yellow White-eye)			

Conservation Codes
 T - Rare or likely to become extinct
 X - Presumed extinct
 IA - Protected under international agreement

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.



Department of Biodiversity,
Conservation and Attractions



Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
S	Other specially protected fauna			
1	Priority 1			
2	Priority 2			
3	Priority 3			
4	Priority 4			
5	Priority 5			

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly 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.



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 [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 14/07/21 15:43:19

[Summary](#)

[Details](#)

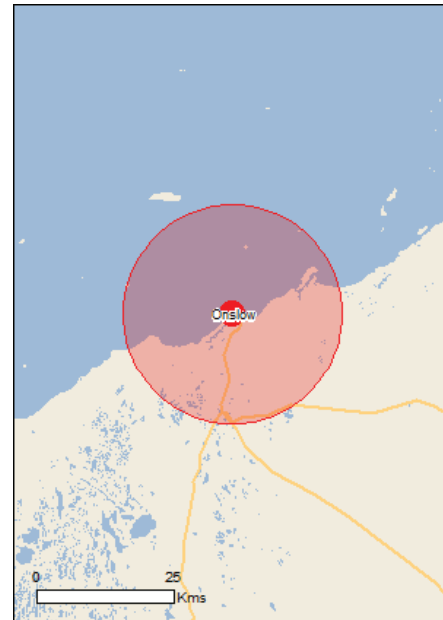
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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[Coordinates](#)

Buffer: 20.0Km



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 [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	26
Listed Migratory Species:	42

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. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) 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:	80
Whales and Other Cetaceans:	13
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Invasive Species:	12
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species

Name	Status	Type of Presence
Rhinonictis aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	habitat known to occur within area Species or species habitat may occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species [Resource Information]		
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area

Name	Threatened	Type of Presence
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

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 -

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		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within

Name	Threatened	Type of Presence
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		area Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Larus novaehollandiae Silver Gull [810]		Breeding known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bengalensis Lesser Crested Tern [815]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Fish		
Acentronura larsonae		
Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
Bulbonaricus brauni		
Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys tricarinatus		
Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma		
Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys latispinosus		
Muiron Island Pipefish [66196]		Species or species habitat may occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus		
Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
Doryrhamphus janssi		
Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Doryrhamphus multiannulatus		
Many-banded Pipefish [66717]		Species or species habitat may occur within area
Doryrhamphus negrosensis		
Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris		
Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris		
Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi		
Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus		
Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris		
Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus		
Ribbioned Pipehorse, Ribbioned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus		
Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area
Micrognathus micronopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area
Phoxocampus belcheri Black Rock Pipefish [66719]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		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 area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within

Name	Threatened	Type of Presence
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	area Species or species habitat known to occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrophis czeblukovi Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding 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]		Species or species habitat may occur within

Name	Status	Type of Presence
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		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 habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

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
Mammals		

Name	Status	Type of Presence
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		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
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		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		
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Reptiles		
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

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 and National Heritage properties, Wetlands of International and National 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.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

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.

Coordinates

-21.63589 115.10761

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:

- [Office of Environment and Heritage, New South Wales](#)
- [Department of Environment and Primary Industries, Victoria](#)
- [Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [Department of Environment, Water and Natural Resources, South Australia](#)
- [Department of Land and Resource Management, Northern Territory](#)
- [Department of Environmental and Heritage Protection, Queensland](#)
- [Department of Parks and Wildlife, Western Australia](#)
- [Environment and Planning Directorate, ACT](#)
- [Birdlife Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [Museum Victoria](#)
- [Australian Museum](#)
- [South Australian 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, Canberra](#)
- [University of New England](#)
- [Ocean Biogeographic Information System](#)
- [Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [Geoscience Australia](#)
- [CSIRO](#)
- [Australian Tropical Herbarium, Cairns](#)
- [eBird Australia](#)
- [Australian Government – Australian Antarctic Data Centre](#)
- [Museum and Art Gallery of the Northern Territory](#)
- [Australian Government National Environmental Science Program](#)
- [Australian Institute of Marine Science](#)
- [Reef Life Survey Australia](#)
- [American Museum of Natural History](#)
- [Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- 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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Appendix B Flora and Fauna Literature Reviews

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Onslow Townsite Strategy Flora, Vegetation and Fauna Assessment (ENV Australia Pty Ltd, 2011)	Overlapping with the Survey Area	May 2011	<ul style="list-style-type: none"> Detailed flora and vegetation survey 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> Two Priority 1 species Five Priority 3 species 	<ul style="list-style-type: none"> *<i>Aerva javanica</i> *<i>Cenchrus ciliaris</i> *<i>Prosopis glandulosa</i> (WoNS, Declared Pest) *<i>Stylosanthes hamata</i> *<i>Tamarix aphylla</i> (WoNS, Declared Pest) *<i>Tribulus terrestris</i>
Pilbara Ports Authority - Port of Ashburton - Eastern Port Precinct - Additional Clearing Areas Flora Survey (Vicki Long & Associates, 2020)	Approximately 10 km southwest of the Survey Area	February 2020	<ul style="list-style-type: none"> Detailed flora and vegetation survey 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> One Priority 3 species 	<ul style="list-style-type: none"> *<i>Cenchrus ciliaris</i>
Flora and vegetation assessment – Ashburton North Strategic Industrial Area (ANSIA) Phase 2 Area (RPS Australia West Pty Ltd, 2019)	Approximately 14 km south of the Survey Area	July – August 2018	<ul style="list-style-type: none"> Desktop assessment Reconnaissance flora and vegetation survey Targeted flora search 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> One Priority 3 species 	<ul style="list-style-type: none"> *<i>Cenchrus ciliaris</i> *<i>Cenchrus setiger</i> *<i>Cucumis melo</i> *<i>Flaveria trinervia</i> *<i>Indigofera sessiliflora</i> *<i>Portulaca oleracea</i> *<i>Prosopis pallida</i> (WoNS, Declared Pest) *<i>Vachellia farnesiana</i>
West Pilbara Project Ashburton East Rail Route Flora and Vegetation Scoping Study (Astron Environmental Services, 2008a)	Approximately 17 km south of the Survey Area	N/A	<ul style="list-style-type: none"> Desktop review 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> One Threatened species Three Priority 1 species Two Priority 2 species Sixteen Priority 3 species Five Priority 4 species 	<ul style="list-style-type: none"> *<i>Aerva javanica</i> *<i>Argemone ochroleuca subsp. ochroleuca</i> *<i>Cenchrus ciliaris</i> *<i>Datura leichhardtii</i> *<i>Malvastrum americanum</i> *<i>Parkinsonia aculeata</i> (Declared Pest, WoNS) *<i>Prosopis</i> spp. (Declared Pest, WoNS) *<i>Setaria verticillata</i> *<i>Ricinus communis</i> *<i>Vachellia farnesiana</i>

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
West Pilbara Project Onslow Rail Route Flora and Vegetation Survey (Astron Environmental Services, 2008b)	Approximately 17 km south of the Survey Area	Four site visits between August and mid November 2008	<ul style="list-style-type: none"> • Desktop survey • Detailed flora and vegetation survey 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> • Two Priority 3 species • One Priority 4 species 	<ul style="list-style-type: none"> • <i>Aerva javanica</i> • <i>Argemone ochroleuca</i> • <i>Cenchrus ciliaris</i> • <i>Cenchrus setiger</i> • <i>Cucumis melo</i> • <i>Cynodon dactylon</i> • <i>Echinachloa colona</i> • <i>Euphorbia hirta</i> • <i>Helichrysum luteoalbum</i> • <i>Malvastrum americanum</i> • <i>Parkinsonia aculeata</i> (WoNS, Declared Pest) • <i>Prosopis</i> spp. (WoNS, Declared Pest) • <i>Setaria verticillata</i> • <i>Sonchus oleraceus</i> • <i>Vachellia farnesiana</i>
Flora and Vegetation of the CS2 – Tubridgi – Wheatstone Gas Pipeline Project Area (Mattiske Consulting Pty Ltd, 2013)	Approximately 18 km southwest of the Survey Area	April 2013	<ul style="list-style-type: none"> • Desktop survey • Level 1 flora and vegetation assessment 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> • Two Priority 3 species 	<ul style="list-style-type: none"> • <i>Aerva javanica</i> • <i>Cenchrus ciliaris</i> • <i>Cynodon dactylon</i> • <i>Malvastrum americanum</i> • <i>Parkinsonia aculeata</i> (WoNS, Declared Pest) • <i>Portulaca oleracea</i> • <i>Vachellia farnesiana</i>
Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)	Approximately 33 km south of the Survey Area	September 2017	<ul style="list-style-type: none"> • Desktop review • Single season reconnaissance flora and vegetation survey 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> • Two Priority 3 species 	<ul style="list-style-type: none"> • <i>Cenchrus ciliaris</i>
Detailed flora and vegetation survey for the Pilbara Waste Management Facility	Approximately 33 km south of the Survey Area	February – March 2018	<ul style="list-style-type: none"> • Detailed flora and vegetation survey 	No TECs or PECs were identified as occurring in the Survey Area	<ul style="list-style-type: none"> • Two Priority 3 species 	<ul style="list-style-type: none"> • <i>Cenchrus ciliaris</i>

Report	(Phoenix Environmental Sciences, 2018)	Project Area		Survey Timing		Survey Effort		Conservation Significant Ecological Communities		Conservation Significant Flora		Introduced Flora	

Conservation significant flora or vegetation		(ENV Australia Pty Ltd, 2011)	(Vicki Long & Associates, 2020)	(RPS Australia West Pty Ltd, 2019)	(Astron Environmental Services, 2008a)	(Astron Environmental Services, 2008b)	(Mattiske Consulting Pty Ltd, 2013)	(RPS Australia West Pty Ltd, 2019)	(Phoenix Environmental Sciences, 2017)	(Phoenix Environmental Sciences, 2018)
		Overlapping with the Survey Area	10 km southwest of the Survey Area	14 km south of the Survey Area	17 km south of the Survey Area	17 km south of the Survey Area	18 km southwest of the Survey Area	14 km south of the Survey Area	33 km south of the Survey Area	33 km south of the Survey Area
T										
<i>Thryptomene wittweri</i> (VU)					★					
P1										
<i>Abutilon</i> sp. Onslow (F. Smith s.n. 10/9/61)		★		★	★		★	★	★	
<i>Calotis squamigera</i>					★					
<i>Cyperus victoriensis</i>		★								
<i>Helichrysum oligochaetum</i>					★		★		★	
P2										
<i>Scævola</i> sp. Hamersley Range basalts (S. van Leeuwen 3675)					★					
<i>Tetradlea fordiana</i>					★					
P3										
<i>Abutilon</i> sp. Pritzelianum (S. van Leeuwen 5095)			★	★				★	✓	?✓
<i>Acacia dawsoniana</i>					★					
<i>Acacia subtilifloris</i>					★					
<i>Atriplex flabelliformis</i>		★					★			

Conservation significant flora or vegetation	Conservation significant flora or vegetation								
	(ENV Australia Pty Ltd, 2011)	(Vicki Long & Associates, 2020)	(RPS Australia West Pty Ltd, 2019)	(Astron Environmental Services, 2008a)	(Astron Environmental Services, 2008b)	(Mattiske Consulting Pty Ltd, 2013)	(RPS Australia West Pty Ltd, 2019)	(Phoenix Environmental Sciences, 2017)	(Phoenix Environmental Sciences, 2018)
	Overlapping with the Survey Area	10 km southwest of the Survey Area	14 km south of the Survey Area	17 km south of the Survey Area	17 km south of the Survey Area	18 km southwest of the Survey Area	14 km south of the Survey Area	33 km south of the Survey Area	33 km south of the Survey Area
<i>Carpobrotus</i> sp. Thevenard Island (M. White 050)	★		★				★		
<i>Cyanthillium gracile</i>				★					
<i>Eleocharis papillosa</i>	★	★	★			★	★	★	
<i>Eragrostis crateriformis</i>									
<i>Eremophila forrestii</i> subsp. <i>viridis</i>	★	★	✓		✓	✓	✓	★	
<i>Eremophila magnifica</i> subsp. <i>velutina</i>				★					
<i>Geijera salicifolia</i>				★					
<i>Glycine falcata</i>				★					
<i>Grevillea subterlineata</i>									
<i>Indigofera gilesii</i>				★					
<i>Pilbara trudgenii</i>				★					
<i>Rhagodia</i> sp. Hammersley (M. Trudgen 17794)				★					
<i>Rostellularia adscendens</i> var. <i>latifolia</i>				★					
<i>Sida</i> sp. Barlee Range (S. van Leeuwen 1642)				★					
<i>Sida</i> sp. Hammersley Range (K. Newbey 10692)				★					
<i>Stackhousia clementii</i>		★						★	
<i>Terminalia supranitifolia</i>				★					

Conservation significant flora or vegetation		(ENV Australia Pty Ltd, 2011)	(Vicki Long & Associates, 2020)	(RPS Australia West Pty Ltd, 2019)	(Astron Environmental Services, 2008a)	(Astron Environmental Services, 2008b)	(Mattiske Consulting Pty Ltd, 2013)	(RPS Australia West Pty Ltd, 2019)	(Phoenix Environmental Sciences, 2017)	(Phoenix Environmental Sciences, 2018)
		Overlapping with the Survey Area	10 km southwest of the Survey Area	14 km south of the Survey Area	17 km south of the Survey Area	17 km south of the Survey Area	18 km southwest of the Survey Area	14 km south of the Survey Area	33 km south of the Survey Area	33 km south of the Survey Area
<i>Triodia pisolitica</i>					★					
<i>Triodia</i> sp. Mt Ella (M.E. Trudgen 12739)					★					
<i>Triumfetta echinata</i>		★	★	★			★	★	✓	★
P4										
<i>Acacia bromilowiana</i>					★					
<i>Eremophila magnifica</i> subsp. <i>magnifica</i>					★					
<i>Goodenia nuda</i>					★	✓			★	
<i>Lepidium catapycnon</i>					★					
<i>Ptilotus mollis</i>										
<i>Rhynchosia bungarensis</i>					★					

? Denotes species was tentatively identified

✓ Denotes species was found during survey

★ Denotes species was identified by database searches during desktop assessment, which typically include an additional buffer around the Project Area, but were not found during survey

Report	Project Area	Survey Timing and limitations	Survey Effort	Conservation Significant Fauna	Fauna Habitats
Onslow Townsite Strategy Flora, Vegetation and Fauna Assessment (ENV Australia Pty Ltd, 2011)	Overlapping with the Survey Area	May 2011	Basic fauna survey	<ul style="list-style-type: none"> Two Migratory species: <i>Pandion cristatus</i> (Eastern Osprey) and <i>Sterna caspia</i> (Caspian Tern) 	<p>Two habitats were identified.</p> <ul style="list-style-type: none"> Shrubland of <i>Acacia</i> species over hummock grassland Beach
West Pilbara Iron Ore Project Onslow Rail Corridor Terrestrial Fauna Survey (Biota Environmental Sciences, 2009)	Approximately 14 km southwest of the Survey Area	October 2008	Detailed fauna survey	<ul style="list-style-type: none"> Three Endangered taxa: <i>Pezoporus occidentalis</i> (Night Parrot), <i>Macronectes giganteus</i> (Southern Giant Petrel), <i>Dasyurus hallucatus</i> (Northern Quoll) Three Vulnerable taxa: <i>Dasyercus blythi</i> (Mulgara), <i>Rhinonictis aurantia</i> (Pilbara Leaf-nosed Bat), <i>Liasis olivaceus barroni</i> (Pilbara Olive Python) One Schedule 4 taxon: <i>Falco peregrinus</i> (Peregrine Falcon) Three Priority 1 taxa: <i>Mormopterus loriaecobourgiana</i> (Little North-western Mastiff Bat), <i>Lerista planiventralis maryani</i>, <i>Ramphotyphlops ganei</i> One Priority 3 taxon: <i>Sminthopsis longicaudata</i> (Long-tailed Dunnart) Eight Priority 4 taxon: <i>Falco hypoleucos</i> (Grey Falcon), <i>Ardeotis australis</i> (Australian Bustard), <i>Nurmenius madagascariensis</i> (Eastern Curlew), <i>Burhinus grallarius</i> (Bush Stone-Curlew), <i>Neochmia ruficauda subclarescens</i> (Star Finch), <i>Phaps histrionica</i> (Flock Bronzewing), <i>Pseudomys chapmani</i> (Western Pebble-mound Mouse), <i>Leggadina lakedownensis</i> (Short-tailed Mouse), <i>Macrodroma gigas</i> (Ghost Bat) 	<p>Six habitats were identified.</p> <ul style="list-style-type: none"> Buffel grass (<i>Cenchrus ciliaris</i>) and <i>Triodia</i> sp. on red silty loam <i>Triodia</i> sp. on red sand dune Samphire flat <i>Acacia</i> sp. and <i>Triodia</i> sp. on stony loam alongside drainage line <i>Acacia</i> sp. and <i>Triodia</i> sp. on loam <i>Triodia</i> sp. on stony loam scree slope
West Pilbara Iron Ore Project Onslow Rail Corridor – Level 1 Fauna Assessment (Biota Environmental Sciences, 2008)	Approximately 14 km southwest of the Survey Area	2008	Desktop Assessment	<ul style="list-style-type: none"> Three Endangered taxa: <i>Pezoporus occidentalis</i> (Night Parrot), <i>Macronectes giganteus</i> (Southern Giant Petrel), <i>Dasyurus hallucatus</i> (Northern Quoll) Three Vulnerable taxa: <i>Dasyercus blythi (cristicauda)</i> (Mulgara), <i>Rhinonictis aurantia</i> (Pilbara Leaf-nosed Bat), <i>Liasis olivaceus barroni</i> (Pilbara Olive Python) One Schedule 4 taxon: <i>Falco peregrinus</i> (Peregrine Falcon) Three Priority 1 taxa: <i>Mormopterus loriae cobourgiana</i> (Little North-western Mastiff Bat), <i>Lerista planiventralis maryani</i>, <i>Ramphotyphlops ganei</i> One Priority 3 taxon: <i>Sminthopsis longicaudata</i> (Long-tailed Dunnart) Nine Priority 4 taxa: <i>Falco hypoleucos</i> (Grey Falcon), <i>Ardeotis australis</i> (Australian Bustard), <i>Nurmenius madagascariensis</i> (Eastern Curlew), <i>Burhinus grallarius</i> (Bush Stone-Curlew), <i>Neochmia ruficauda subclarescens</i> (Star Finch), <i>Phaps histrionica</i> (Flock Bronzewing), 	<p>Five habitats were identified.</p> <ul style="list-style-type: none"> Mudflats Alluvial Plains Sandy Plains Stony Plains Mesas and Hills

Report	Project Area	Survey Timing and limitations	Survey Effort	Conservation Significant Fauna	Fauna Habitats
<p>A Level 1 Vertebrate Fauna Assessment of the Proposed Tubridgi to Wheatstone Gas Pipeline, Western Australia (Ninox Wildlife Consulting, 2013)</p>	<p>Approximately 14 km southwest of the Survey Area</p>	<p>April 2013</p>	<p>Basic fauna survey</p>	<p><i>Pseudomys chapmani</i> (Western Pebble-mound Mouse), <i>Leggadina lakedownensis</i> (Short-tailed Mouse), <i>Macrodarma gigas</i> (Ghost Bat)</p> <ul style="list-style-type: none"> Recorded species: <i>Ardea madesta</i> (Eastern Great Egret), <i>Merops ornatus</i> (Rainbow Bee-eater), <i>Ardeotis australis</i> (Australian Bustard) Could potentially occur: <i>Apus pacificus</i> (Fork-tailed Swift), <i>Hirundo rustica</i> (Barn Swallow), <i>Glareola maldivarum</i> (Oriental Pratincole), <i>Charadrius verreauxi</i> (Oriental Plover), <i>Ardea ibis</i> (Cattle Egret), <i>Haliaeetus leucogaster</i> (White-bellied Sea-eagle), 19 species of migratory wading and shorebirds, <i>Falco peregrinus</i> (Peregrine Falcon), <i>Burhinus grallarius</i> (Bush Stone-curlew), <i>Phaps histrionica</i> (Flock Bronzewing), <i>Dasyurus hallucatus</i> (Northern Quoll), <i>Macrotis lagotis</i> (Greater Bilby), <i>Rhinonictis aurantia</i> (Pilbara Leaf-nosed Bat), <i>Pseudomys chapmani</i> (Western Pebble-mound Mouse), <i>Leggadina lakedownensis</i> (Lakeland Downs Mouse), <i>Liasis olivaceus barroni</i> (Pilbara Olive Python), <i>Crocodylus porosus</i> (Salt-water Crocodile), <i>Aspidites ramsayi</i> (Woma) 	<p>Mangrove habitat was identified.</p>
<p>Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)</p>	<p>Approximately 33 km south of the Survey Area</p>	<p>September 2017</p>	<p>Desktop review Targeted terrestrial fauna survey</p>	<ul style="list-style-type: none"> No Threatened or Priority fauna were recorded during the field survey. The Migratory <i>Merops ornatus</i> (Rainbow Bee-eater) was recorded twice from direct observation and call in shrubland on sand dune habitat. Suitable habitat was identified for a further eight conservation significant species: <i>Lerista planiventralis maryani</i> (Maryan's keeled Slider), <i>Apus pacificus</i> (Fork-tailed Swift), <i>Falco peregrinus</i> (Peregrine Falcon), <i>Pezoparus occidentalis</i> (Night Parrot), <i>Falco hypoleucos</i> (Grey Falcon), <i>Leggadina lakedownensis</i> (Short-tailed Mouse), <i>Pseudomys chapmani</i> (Western Pebble-mound Mouse), <i>Macrotis lagotis</i> (Greater Bilby) 	<p>Two habitats were identified and described.</p> <ul style="list-style-type: none"> Mosaic of hummock grassland and shrubland on plain Shrubland on sand dune

Appendix C

Flora and Fauna Likelihood of Occurrences

Threatened and Priority Flora Likelihood of Occurrence as per Desktop Assessment Database Searches Surrounding the Survey Area

Distance to Nearest Record from the Survey Area is based on a distance analysis undertaken against 2020 DBCA database. High = Suitable habitat present and records less than 10 km from the Survey Area, Medium = Suitable habitat present and records between 10 km and 20 km from the Survey Area or there is suitable habitat in the Survey Area but the species is recorded infrequently in the locality, and Low = No suitable habitat present and/or records greater than 20 km from the Survey Area, Unknown = Insufficient information available to classify. CR= Listed as Critically Endangered under the EPBC Act, EN = Listed as Endangered under the EPBC Act, VU = listed as Vulnerable under the EPBC Act, T = Threatened under the BC Act, P = Priority Listed, Ranked and Listed by the DBCA. Likelihoods are assessed both pre and post survey based on knowledge of the Survey Area, nearest known records, known flowering period of flora taxa and knowledge gained from the survey effort during ground truthing.

Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Habitat occurs within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	State	Federal	NM	PMST	DBCA						
<i>Abutilon sp. Onslow (F. Smith s.n. 10/9/61)</i>	P1		x		x	27.8	May-Oct	Flat hummock grassland with red-brown silty, clay loam or loamy sandplain. ²	No	Low	Low
<i>Isotropis forrestii</i>	P1		x			21.4	Apr - Sep or Dec	Stony clay loam, sandy alluvium. Along drainage lines. ²	No	Low	Low
<i>Myriocephalus scalpellus</i>	P1		x			37.1	-	Clay. Depression on flood plain. ²	No	Low	Low
<i>Abutilon sp. Pritzelianum (S. van Leeuwen 5095)</i>	P3		x		x	5.8	Jun, Aug - Sep	Sandy plains. ²	No	High	Low
<i>Carpobrotus sp. Thevenard Island (M. White 050)</i>	P3		x		x	21	Aug	Coarse white sand. Dune tops, disturbed areas. ²	No	Medium	Low
<i>Eleocharis papillosa</i>	P3		x		x	17.7	Nov	Red clay over granite, open clay flats. Claypans. ²	No	Low	Low
<i>Eremophila forrestii subsp. viridis</i>	P3		x		x	16.6	Aug	Red sand, rocky gully. ²	No	Medium	Low
<i>Stackhousia clementii</i>	P3		x		x	5.5	Nov-Mar	Skeletal soils. Sandstone hills. ²	No	High	Low
<i>Triumfetta echinata</i>	P3		x		x	15.9	Aug	Red sandy soils. Sand dunes ²	Yes	Medium	Medium



Fauna Likelihood of Occurrence

Conservation status: State - Conservation status under BC Act or DBCA priority list, Federal - Conservation status under EPBC Act, CR - Critically Endangered, EN - Endangered, VU - Vulnerable, MI - Migratory, OS - Other specially protected fauna, MA - Marine, P - Listed as priority by DBCA.

Source: NM = NatureMap, PMST = EPBC Protected Matters Search Tool, DBCA = DBCA Threatened and Priority Fauna database search

Family	Scientific Name	Common Name	Conservation Status		Source				Likelihood of Occurrence	Justification
			State	Federal	NM	PMST	DBCA	DBCA 10yrs		
Apodidae	<i>Apus pacificus</i>	Pacific Swift (Fork-tailed Swift)	MI		x	x	x	x	6	Low Nearby records. May use habitats in Survey Area for foraging (particularly airspace where insects are abundant).
	<i>Charadrius leschenaultii</i>	Greater Sand Plover	VU	VU, MI & MA	x			x	65	Medium Recent nearby records. May use habitats in Survey Area (Beaches, tidal flats).
Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	EN, MI & MA	x			x	3	Medium Recent nearby records. May use habitats in Survey Area (Coastal areas, tidal flats).
	<i>Charadrius veredus</i>	Oriental Plover	MI	MI & MA	x			x	3	Low Records >10km. No suitable habitat (Grasslands, plains).
	<i>Pluvialis squatarola</i>	Grey Plover	MI	MI & MA	x			x	9	Medium Recent nearby records. May use habitats in Survey Area (Coastal areas, tidal flats).
	<i>Falco hypoleucos</i>	Grey Falcon	VU	VU		x				Low No nearby records. No suitable habitat (Plains with treed watercourses).
Falconidae	<i>Falco peregrinus</i>	Peregrine Falcon	OS		x			x	3	Low Recent records >10km. No suitable nest sites (Cliff faces).
Fregatidae	<i>Fregata ariel</i>	Lesser Frigatebird	MI	MI & MA		x				Low No nearby records. May use habitats in the Survey Area (Coastal areas).
Glareolidae	<i>Glareola maldivarum</i>	Oriental Pratincole	MI	MI & MA	x			x	3	Low Recent records >10km. May use habitats in the Survey Area (Beaches, plains, tidal flats).
	<i>Hirundo rustica</i>	Barn Swallow	MI	MI & MA	x			x	10	Medium Recent nearby records. May use habitats in the Survey Area for foraging (particularly airspace where insects are abundant) (Coastal areas).
Laridae	<i>Anous stolidus</i>	Common Noddy (Brown Noddy)	MI	MI & MA		x				Low No suitable habitat (Oceanic).
	<i>Chlidonias leucopterus</i>	White-winged Black Tern	MI		x			x	1	Low Nearby records. No suitable habitat (Fresh to saline wetlands).
	<i>Gelochelidon nilotica</i>	Gull-billed Tern	MI		x			x	2	Low Nearby records. May use habitats in the Survey Area (Coastal areas, beaches).
	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI & MA	x			x	51	Low Recent nearby records. No suitable habitat (Coastal waters, inland waterbodies).
	<i>Onychoprion anaethetus</i>	Bridled Tern	MI	MI & MA	x			x		Low Records >10km. No suitable habitat (Oceanic).
	<i>Sterna dougallii</i>	Roseate Tern	MI	MI & MA	x			x	1	Medium Recent nearby records. May use habitats in the Survey Area (Coastal areas).
	<i>Sterna hiruudo</i>	Common Tern	MI		x			x	32	Medium Recent nearby records. May use habitats in Survey Area (Coastal areas, beaches).
	<i>Sternula albifrons</i>	White-shafted Little Tern	MI	MI & MA	x			x	19	Medium Recent nearby records. May use habitats in the Survey Area (Beaches, spits, sandbars).
	<i>Sternula nereis nereis</i>		VU	VU		x		x		Low Nearby historical records. May use habitats in the Survey Area (Coastal areas, beaches).
	<i>Thalasseus bergii</i>	Crested Tern (Greater Crested Tern)	MI	MI & MA	x			x	23	Medium Recent nearby records. May use habitats in Survey Area (Coastal areas, beaches).



Family	Scientific Name	Common Name	Conservation Status		Source				Likelihood of Occurrence	Justification
			State	Federal	NM	PMST	DBCA	DBCA 10yrs		
Motacillidae	<i>Motacilla cinerea</i>	Grey Wagtail	MI	MI & MA		x			Low	Outside known distribution. No suitable habitat (Sandy or rocky streams).
	<i>Motacilla tschutschensis</i>	Yellow Wagtail	MI	MI & MA		x			Low	No nearby records. No suitable habitat (Short grass, bare ground).
	<i>Oceanites oceanicus</i>	Wilson's Storm Petrel	MI		x		x	1	Low	Records >2.5km. No suitable habitat (Oceanic).
Pandionidae	<i>Pandion haliaeetus cristatus</i>	Eastern Osprey	MI		x		x	24	Medium	Recent nearby records. May use habitats in Survey Area (Coastal areas, beaches).
	<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	MI	MI & MA	x			6	Low	Records >2.5km. No suitable habitat (Oceanic).
	<i>Calonectris leucomelas</i>	Streaked Shearwater	MI			x			Low	No nearby records. No suitable habitat (Oceanic).
Procellariidae	<i>Macronectes giganteus</i>	Southern Giant Petrel	MI	EN, MI & MA		x			Low	No nearby records. Outside known distribution (Oceanic).
	<i>Pezoparus occidentalis</i>	Night Parrot	CR	EN	x	x			Low	Nearby historical records. No suitable habitat (Spinifex).
Rostratulidae	<i>Rostratula australis</i>	Australian Painted Snipe	EN	EN & MA		x			Low	Outside known distribution. No suitable habitat. (Well vegetated shallow wetlands).
	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI & MA	x	x		26	Medium	Recent nearby records. May use habitats in the Survey Area (Mangroves, coastal wetlands, rocky beaches).
Scolopacidae	<i>Arenaria interpres</i>	Ruddy Turnstone	MI	MI & MA	x	x		33	Medium	Recent nearby records. May use habitats in Survey Area (Coastal areas, beaches).
	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	MI	MI & MA	x	x		2	Low	Recent nearby records. No suitable habitat (lagoons, fresh to saline wetlands).
	<i>Calidris alba</i>	Sanderling	MI	MI & MA	x	x		39	Medium	Recent nearby records. May use habitats in Survey Area (Beaches, tidal flats).
	<i>Calidris canutus</i>	Red Knot	EN	EN, MI & MA		x			Low	Nearby historical records. May use habitats in the Survey Area (Coastal areas, tidal flats).
	<i>Calidris ferruginea</i>	Curlew Sandpiper	CR	CR, MI & MA	x	x			Low	Nearby records. No suitable habitat (Intertidal mudflats).
	<i>Calidris melanotos</i>	Pectoral Sandpiper	MI	MI & MA	x	x		3	Low	Records >10km. No suitable habitat (Mudflats, fresh to saline wetlands).
	<i>Calidris ruficollis</i>	Red-necked Stint	MI	MI & MA	x	x		45	Medium	Recent nearby records. May use habitats in Survey Area (Tidal mudflats, salt marshes, beaches).
	<i>Calidris tenuirostris</i>	Great Knot	CR	CR, MI & MA	x		x	1	Medium	Recent records >2.5km. May use habitats in the Survey Area (Tidal flats, beaches).
	<i>Limosa lapponica</i>	Bar-tailed Godwit	MI	MI & MA	x	x		63	Medium	Recent nearby records. May use habitats in Survey Area (Coastal areas, tidal flats).
	<i>Limosa lapponica menzbieri</i>	Bar-tailed Godwit (Northern Siberia)	CR (MI at sp. level)	CR (MI & MA at sp. level)	x	x		2	Low	Nearby historical records. May use habitats in the Survey Area (Coastal areas, tidal flats).
	<i>Numenius madagascariensis</i>	Far Eastern Curlew (Eastern Curlew)	CR	CR, MI & MA	x	x		16	Medium	Recent nearby records. May use habitats in the Survey Area (Coastal area, tidal flats).
	<i>Numenius minutus</i>	Little Curlew	MI	MI & MA	x	x		1	Low	Recent nearby records. No suitable habitat (Grasslands).
	<i>Numenius phaeopus</i>	Whimbrel	MI	MI & MA	x	x		17	Medium	Recent nearby records. May use habitats in the Survey Area (Coastal area, tidal flats, mangroves).



Family	Scientific Name	Common Name	Conservation Status		Source				Likelihood of Occurrence	Justification
			State	Federal	NM	PMST	DBCA	DBCA 10yrs		
Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed Tattler	MI & P4	MI & MA	x	x	x	41	Medium	Recent nearby records. May use habitats in Survey Area (Coastal areas, tidal flats, rocky shorelines).
	<i>Tringa glareola</i>	Wood Sandpiper	MI	MI & MA	x	x			Low	No nearby records. No suitable habitat (Freshwater wetlands).
	<i>Tringa nebularia</i>	Common Greenshank	MI	MI & MA	x	x	x	14	Medium	Recent nearby records. May use habitats in the Survey Area (Coastal areas, mangroves, mudflats).
Threskiornithidae	<i>Plegadis falcinellus</i>	Glossy Ibis	MI		x		x	2	Low	Records >10km. No suitable habitat (Shallow fresh water, estuarine waters, grasslands).
Mammals										
Dasyuridae	<i>Dasyurus hallucatus</i>	Northern Quoll	EN	EN	x	x	x	5	Low	Recent nearby records. No suitable habitat (Rocky escarpments).
Muridae	<i>Leggadina lakedownensis</i>	Short-tailed Mouse	P4		x		x	56	Low	Recent records >10km. No suitable habitat (Spinifex and tussock grasslands, acacia shrublands).
	<i>Pseudomys chapmani</i>	Western Pebble-mound Mouse	P4		x		x		Low	Records >10km. No suitable habitat (Rocky ranges).
Rhinycteridae	<i>Rhinonictis aurantia Pilbara Form</i>	Pilbara Leaf-nosed Bat	P4			x			Low	No nearby records. No suitable habitat (Rocky ranges).
Reptiles										
Cheloniidae	<i>Caretta caretta</i>	Loggerhead Turtle	EN	EN, MI & MA	x	x	x	14	Low	Records >2.5km. May use habitats near the Survey Area (Beaches).
	<i>Chelonia mydas</i>	Green Turtle	VU	VU, MI & MA	x	x	x	41	Low	Nearby records. May use habitats near the Survey Area (Beaches).
	<i>Eretmochelys imbricata</i>	Hawksbill Turtle	VU	VU, MI & MA	x	x	x	1	Low	Records >2.5km. May use habitats near the Survey Area (Beaches).
	<i>Lepidochelys olivacea</i>	Olive Ridley Turtle	EN	EN, MI & MA	x				Low	No nearby records. May use habitats near the Survey Area (Beaches).
Crocodylidae	<i>Natator depressus</i>	Flatback Turtle	VU	VU, MI & MA	x	x	x	185	Low	Recent nearby records. May use habitats near the Survey Area (Beaches).
	<i>Crocodylus porosus</i>	Saltwater Crocodile	OS	MI & MA	x		x	1	Low	Records >2.5km. No suitable habitat.
Dermochelyidae	<i>Dermochelys coriacea</i>	Leatherback Turtle	VU	EN, MI & MA		x			Low	No nearby records. May use habitats near the Survey Area (Beaches).
Scincidae	<i>Lerista planiventralis maryani</i>	Manyan's Keeled Slider	P1		x		x		Medium	Nearby historical records. Suitable habitats occur in the Survey Area (Coastal sandy areas between Onslow and Barradale).

Appendix D Flora and Fauna Species Inventories

Vascular Flora Inventory

Family	Species
Amaranthaceae	* <i>Aerva javanica</i>
Amaranthaceae	<i>Ptilotus murrayi</i>
Amaranthaceae	<i>Ptilotus polystachyus</i>
Arecaceae	* <i>Washingtonia filifera</i>
Boraginaceae	<i>Trichodesma zeylanicum</i>
Chenopodiaceae	<i>Chenopodium</i> sp.
Chenopodiaceae	<i>Rhagodia preissii</i> subsp. <i>obovata</i>
Chenopodiaceae	<i>Salsola australis</i>
Chenopodiaceae	<i>Threlkeldia diffusa</i>
Euphorbiaceae	<i>Adriana tomentosa</i> var. <i>tomentosa</i>
Euphorbiaceae	<i>Euphorbia myrtoides</i>
Fabaceae	<i>Acacia coriacea</i> subsp. <i>coriacea</i>
Fabaceae	<i>Acacia tetragonophylla</i>
Fabaceae	<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>
Fabaceae	<i>Cullen martinii</i>
Fabaceae	<i>Indigofera colutea</i>
Fabaceae	<i>Tephrosia gardneri</i>
Fabaceae	<i>Tephrosia rosea</i> var. <i>clementii</i>
Lamiaceae	<i>Quoya loxocarpa</i>
Lauraceae	<i>Cassytha aurea</i>
Myrtaceae	<i>Eucalyptus camaldulensis</i>
Phyllanthaceae	? <i>Flueggea virosa</i>
Poaceae	<i>Aristida holathera</i>
Poaceae	* <i>Cenchrus ciliaris</i>
Poaceae	<i>Eulalia aurea</i>
Poaceae	<i>Spinifex longifolius</i>
Poaceae	<i>Triodia epactia</i>
Poaceae	<i>Triodia</i> ? <i>epactia</i>
Portulacaceae	<i>Calandrinia</i> sp.
Solanaceae	<i>Nicotiana occidentalis</i> subsp. <i>occidentalis</i>
Solanaceae	<i>Solanum lasiophyllum</i>
Tamaricaceae	* <i>Tamarix aphylla</i>
Zygophyllaceae	<i>Tribulus occidentalis</i>

Terrestrial Vertebrate Fauna Inventory

Conservation status: State - Conservation status under BC Act or DBCA priority list, Federal - Conservation status under EPBC Act, MA - listed as Marine under the EPBC Act. Observation type: sighting, () sighting overhead, * call, + tracks. Opp includes all opportunistic observations.

Family	Scientific Name	Common Name	Conservation Status		Habitat Assessment Site						Opp	Site Total	
			State	Federal	HA1	HA2	HA3	HA4	HA5	HA6			
Birds													
Artamidae	<i>Artamus leucorhynchus</i>	White-breasted Woodswallow			(3)		(1)	(2)	1			8 (1)	9 (7)
Columbidae	<i>Geopelia striata</i>	Zebra Dove						2					2
	<i>Geopelia striata placida</i>	Peaceful Dove			*	1		1 *			*	1	3 *
Corvidae	<i>Corvus orru</i>	Torresian Crow			(1)						(1)		(2)
	<i>Neochmia ruficauda</i>	Star Finch					2						2
Estrildidae	<i>Taeniopygia guttata</i>	Zebra Finch			6		5 *					15	26 *
	<i>Larus novaehollandiae</i>	Silver Gull			(1)			*				1 *	1 (1) *
Laridae	<i>Malurus assimilis assimilis</i>	Purple-backed Fairywren										2	2
	<i>Malurus leucopterus</i>	White-winged Fairywren			*	*	5	*	*			*	5 *
Meliphagidae	<i>Lichmera indistincta</i>	Brown Honeyeater							2				2
	<i>Ptilotula ?keartlandi</i>	Grey-headed Honeyeater					2						2
Psittaculidae	<i>Ptilotula penicillata</i>	White-plumed Honeyeater			*		4 (1)	(1)	*			9 (1)	13 (3) *
	<i>Melopsittacus undulatus</i>	Budgerigar										1	1
Zosteropidae	<i>Zosterops luteus</i>	Yellow White-eye										1	1
Mammals													
Felidae	<i>Felis catus</i>	Cat				+	+				+	+	+
Macropodidae	<i>Osphranter</i> sp.											+	+
	<i>Muridae</i> sp.					+		+				+	+
Reptiles													
Agamidae	<i>Ctenophorus ?femorialis</i>	Dune Dragon					1					1	2
	<i>Ctenophorus</i> sp.											1	2

Appendix E Flora Site Sheets

FLORA SITE SHEET

Project Name Lot 300 Back Beach Rd, Onslow
Site: Lot 300 Q1
Location MGA 50 303894 mE 7606126 mN
Described by: JW
Date: 20/07/2021
Type: Quadrat
Landform: Dune swale
Slope: Moderate
Rock Type: N/A
Soil Type: Sand, Loam
Soil Colour: Orange



Vegetation: *Eucalyptus camaldulensis* and **Washingtonia filifera* low isolated trees over *Acacia coriacea* subsp. *coriacea* and **Tamarix aphylla* tall open shrubland over *Trichodesma zeylanicum* mid sparse shrubland over **Cenchrus ciliaris* low closed tussock grass with *Cassyltha aurea* low sparse forbland.

Condition: Good **Disturbance Type:** Weeds, Litter
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eucalyptus camaldulensis</i>	900	1	
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	300	12	
<i>*Tamarix aphylla</i>	300	5	
<i>*Washingtonia filifera</i>	300	5	
<i>Trichodesma zeylanicum</i>	150	10	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	100	2	
<i>Eulalia aurea</i>	90	0.5	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	50	5	
<i>Threlkeldia diffusa</i>	50	2	
<i>*Cenchrus ciliaris</i>	40	80	
<i>Spinifex longifolius</i>	40	1	
<i>Solanum lasiophyllum</i>	30	1	
<i>Cassyltha aurea</i>	10	10	
<i>Euphorbia myrtilodes</i>	10	1	

FLORA SITE SHEET

Project Name Lot 300 Back Beach Rd, Onslow
Site: Lot 300 Q2
Location MGA 50 304077 mE 7606094 mN

Described by: JW
Date: 20/07/2021
Type: Quadrat

Landform: Dune and dune swale
Slope: Moderate
Rock Type: N/A
Soil Type: Sand, Loam
Soil Colour: Orange



Vegetation: *Acacia coriacea* subsp. *coriacea* tall sparse shrubland over *Crotalaria cunninghamii* subsp. *sturtii* low sparse shrubland over **Cenchrus ciliaris* low tussock grassland with *Euphorbia myrtoides* low sparse forbland.

Condition: Good **Disturbance Type:** Weeds
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	250	5	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	150	2	
<i>Trichodesma zeylanicum</i>	110	2	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	100	5	
<i>Salsola australis</i>	100	1	
<i>Spinifex longifolius</i>	75	2	
<i>Eulalia aurea</i>	75	1	
* <i>Cenchrus ciliaris</i>	40	65	
<i>Cullen martinii</i>	35	5	
<i>Euphorbia myrtoides</i>	25	10	
<i>Tephrosia gardneri</i>	5	0.1	

FLORA SITE SHEET

Project Name Lot 300 Back Beach Rd, Onslow
Site: Lot 300 Q3
Location MGA 50 304059 mE 7606230 mN

Described by: JW
Date: 20/07/2021
Type: Quadrat

Landform: Dune and dune swale
Slope: Moderate
Rock Type: N/A
Soil Type: Sand, Loam
Soil Colour: Orange



Vegetation: *Acacia coriacea* subsp. *coriacea* tall sparse shrubland over *Trichodesma zeylanicum*, *Cullen martinii* and *Crotalaria cunninghamii* subsp. *sturtii* mid open shrubland over **Cenchrus ciliaris* low open tussock grassland over *Euphorbia myrtoides* low sparse forbland.

Condition: Good **Disturbance Type:** Weeds
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	250	10	
<i>Trichodesma zeylanicum</i>	190	5	
<i>Cullen martinii</i>	180	10	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	140	5	
<i>Aerva javanica</i>	130	1	
<i>Spinifex longifolius</i>	100	2	
<i>Salsola australis</i>	90	1	
<i>Eulalia aurea</i>	60	1	
<i>Ptilotus polystachyus</i>	60	0.1	
<i>Tephrosia gardneri</i>	45	2	
<i>Triodia epactia</i>	40	1	
* <i>Cenchrus ciliaris</i>	35	15	
<i>Threlkeldia diffusa</i>	35	1	
<i>Euphorbia myrtoides</i>	10	10	

FLORA SITE SHEET

Project Name Lot 300 Back Beach Rd, Onslow
Site: Lot 300 Q4
Location MGA 50 304058 mE 7606369 mN

Described by: JW
Date: 20/07/2021
Type: Quadrat

Landform: Dune and dune swale
Slope: Moderate
Rock Type: N/A
Soil Type: Sand, Loam
Soil Colour: Orange



Vegetation: *Acacia coriacea* subsp. *coriacea* tall sparse shrubland over *Trichodesma zeylanicum* and *Salsola australis* mid open shrubland over **Cenchrus ciliaris* low cloed tussock grassland.

Condition: Good **Disturbance Type:** Weeds
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	300	4	
<i>Trichodesma zeylanicum</i>	190	5	
<i>Adriana tomentosa</i> var. <i>tomentosa</i>	190	1	
<i>Salsola australis</i>	120	10	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	120	1	
<i>Spinifex longifolius</i>	100	2	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	90	2	
<i>Eulalia aurea</i>	75	1	
* <i>Cenchrus ciliaris</i>	40	80	
<i>Euphorbia myrtilodes</i>	35	5	
<i>Tephrosia gardneri</i>	10	1	

FLORA SITE SHEET

Project Name Lot 300 Back Beach Rd, Onslow
Site: Lot 300 Q5
Location MGA 50 304233 mE 7606346 mN
Described by: JW
Date: 20/07/2021
Type: Quadrat
Landform: Dune and dune swale
Slope: Moderate
Rock Type: N/A
Soil Type: Sand, Loam
Soil Colour: Orange



Vegetation: *Acacia coriacea* subsp. *coriacea* and *Trichodesma zeylanicum* tall to mid open shrubland over *Salsola australis* low sparse shrubland over *Euphorbia myrtilodes* and *Tribulus occidentalis* low open forbland with **Cenchrus ciliaris* low closed tussock grassland.

Condition: Good **Disturbance Type:** Vehicle tracks, Litter
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	200	10	
<i>Trichodesma zeylanicum</i>	200	2	
<i>Aerva javanica</i>	100	2	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	100	2	
<i>Aristida holathera</i>	80	2	
<i>Salsola australis</i>	65	5	
<i>Tephrosia gardneri</i>	30	2	
<i>Nicotiana occidentalis</i> subsp. <i>occidentalis</i>	30	0.1	
<i>Euphorbia myrtilodes</i>	25	5	
<i>*Cenchrus ciliaris</i>	20	75	
<i>Tribulus occidentalis</i>	20	10	
<i>Indigofera colutea</i>	20	1	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	20	1	
<i>Ptilotus murrayi</i>	10	1	

FLORA SITE SHEET

Project Name Lot 300 Back Beach Rd, Onslow
Site: Lot 300 Q6
Location MGA 50 304075 mE 7606399 mN

Described by: JW
Date: 20/07/2021
Type: Quadrat

Landform: Dune and dune swale
Slope: Moderate
Rock Type: N/A
Soil Type: Sand, Loam
Soil Colour: Orange



Vegetation: *Acacia coriacea* subsp. *coriacea* tall open shrubland over *Trichodesma zeylanicum* and *Salsola australis* mid open shrubland over *Spinifex longifolius* tall sparse tussock grassland over *Triodia epactia* low sparse hummock grassland with *Euphorbia myrtilloides* low sparse forbland with **Cenchrus ciliaris* low closed tussock grassland.

Condition: Good **Disturbance Type:** Weeds
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia coriacea</i> subsp. <i>coriacea</i>	500	20	
<i>Trichodesma zeylanicum</i>	130	2	
<i>Salsola australis</i>	110	15	
<i>Spinifex longifolius</i>	110	7	
<i>Eulalia aurea</i>	90	1	
<i>Aerva javanica</i>	75	1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	50	1	
<i>Rhagodia preissii</i> subsp. <i>obovata</i>	50	1	
<i>Triodia epactia</i>	45	5	
<i>Ptilotus polystachyus</i>	45	1	
<i>Euphorbia myrtilloides</i>	35	5	
* <i>Cenchrus ciliaris</i>	30	40	
<i>Tephrosia gardneri</i>	25	1	
<i>Tribulus occidentalis</i>	20	2	
<i>Ptilotus murrayi</i>	20	1	
<i>Threlkeldia diffusa</i>	5	1	

Appendix F Fauna Habitat Assessments

Lot 300 HA1

Project:	4733 Lot 300 Back Beach Rd, Onslow		
Date	20/07/2021	Personnel	PW
Easting	303901	Northing	7606104
Landform	Landform and soil		
Soil type	Dune swale	Rock type/s	None
Soil colour	Sandy loam	Surface stone cover	
	Orange	Surface stone size classes present	
Quality	Condition		
Fire History	Disturbed	Habitat Features	
Disturbance	Burnt (1-5 years)	Water Source	Absent
Introduced fauna	Litter, Vehicle tracks, Weeds	Microhabitats	Leaf litter, Woody debris
	Cat	Vegetation	
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)	
Mid stratum	Tall (>2m), Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	
Ground stratum	Low (>0.5 m)	Closed tussock grassland (>80%)	
		<i>Eucalyptus</i> sp., * <i>Washingtonia filifera</i> , * <i>Tamarix aphylla</i>	
		<i>Acacia coriacea</i> subsp. <i>coriacea</i> , <i>Trichodesma zeylanicum</i>	
		* <i>Cenchrus ciliaris</i>	



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Lot 300 HA2

Project:	4733 Lot 300 Back Beach Rd, Onslow		
Date	20/07/2021	Personnel	PW
Easting	304112	Northing	7606043
Landform	Landform and soil		
Soil type	Dune slope	Rock type/s	None
Soil colour	Sandy loam	Surface stone cover	
	Orange	Surface stone size classes present	
Quality	Condition		
Fire History	Disturbed	Habitat Features	
Disturbance	Burnt (1-5 years)	Water Source	Absent
Introduced fauna	Weeds	Microhabitats	Leaf litter, Peeling bark, Woody debris
	Cat	Vegetation	
Upper stratum	Absent		
Mid stratum	Tall (>2m), Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	
Ground stratum	Mid (0.5-1 m)	Open tussock grassland (20-50%)	
		* <i>Cenchrus ciliaris</i>	
		<i>Acacia coriacea</i> subsp. <i>coriacea</i>	



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Lot 300 HA3

Project:	4733 Lot 300 Back Beach Rd, Onslow		
Date	20/07/2021	Personnel	PW
Easting	304070	Northing	7606193
Landform	Landform and soil		
Soil type	Dune swale	Rock type/s	None
Soil colour	Sandy loam	Surface stone cover	
	Orange	Surface stone size classes present	Rock
Quality	Condition		
Fire History	Disturbed	Habitat Features	
Disturbance	Burnt (1-5 years)	Water Source	Absent
Introduced fauna	Vehicle tracks, Weeds	Microhabitats	Leaf litter, Woody debris
	Cat	Vegetation	
Upper stratum	Absent		
Mid stratum	Tall (>2m), Mid (1-2 m) Sparse shrubland and/or heathland (0.25-20%) <i>Acacia coriacea subsp. coriacea, Cullen martinii</i>		
Ground stratum	Mid (0.5-1 m) Tussock grassland (50-80%) <i>*Cenchrus ciliaris</i>		

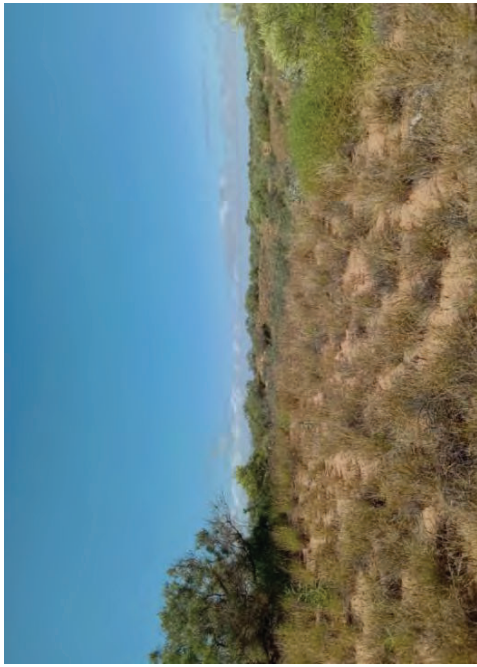


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Lot 300 HA4

Project:	4733 Lot 300 Back Beach Rd, Onslow		
Date	20/07/2021	Personnel	PW
Easting	304015	Northing	7606353
Landform	Landform and soil		
Soil type	Dune crest	Rock type/s	None
Soil colour	Sandy loam	Surface stone cover	
	Orange	Surface stone size classes present	Rock
Quality	Condition		
Fire History	Disturbed	Habitat Features	
Disturbance	Burnt (1-5 years)	Water Source	Absent
Introduced fauna	Litter, Weeds	Microhabitats	Leaf litter, Woody debris
	Cat	Vegetation	
Upper stratum	Absent		
Mid stratum	Tall (>2m), Mid (1-2 m) Sparse shrubland and/or heathland (0.25-20%) <i>Acacia coriacea subsp. coriacea, Salsola australis</i>		
Ground stratum	Mid (0.5-1 m) Tussock grassland (50-80%) <i>*Cenchrus ciliaris</i>		



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Lot 300 HA5

Project: 4733 Lot 300 Back Beach Rd, Onslow		Personnel	PW
Date	20/07/2021	Northing	7606335
Easting	304211	Rock	Rock
Landform and soil			
Landform	Dune slope	Rock type/s	None
Soil type	Sandy loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	
Condition			
Quality	Disturbed	Habitat Features	
Fire History	Burnt (1-5 years)	Water Source	Absent
Disturbance	Litter, Vehicle tracks, Weeds	Microhabitats	Leaf litter, Woody debris
Introduced fauna	Cat	Vegetation	
Upper stratum	Absent		
Mid stratum	Tall (>2 m)		<i>Acacia coriacea</i> subsp. <i>coriacea</i>
Ground stratum	Mid (0.5-1 m)		* <i>Cenchrus ciliaris</i>

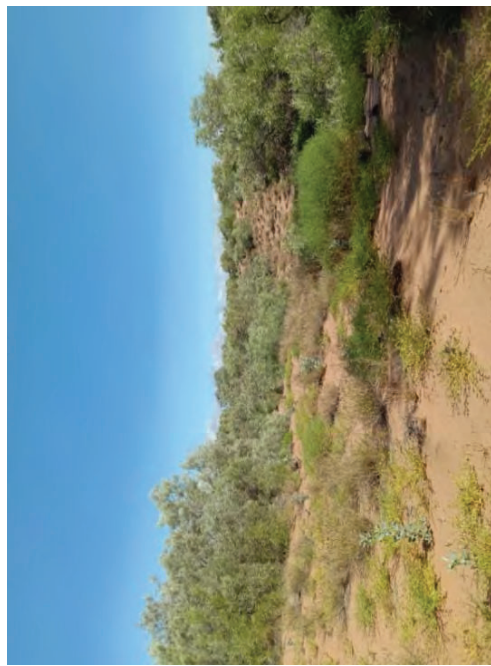


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Lot 300 HA6

Project: 4733 Lot 300 Back Beach Rd, Onslow		Personnel	PW
Date	20/07/2021	Northing	7606207
Easting	304261	Rock	Rock
Landform and soil			
Landform	Dune slope	Rock type/s	None
Soil type	Sandy loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	
Condition			
Quality	Disturbed	Habitat Features	
Fire History	Burnt (1-5 years)	Water Source	Absent
Disturbance	Litter, Weeds	Microhabitats	Leaf litter, Peeling bark, Woody debris
Introduced fauna	Cat	Vegetation	
Upper stratum	Absent		
Mid stratum	Tall (>2m), Mid (1-2 m)		<i>Acacia coriacea</i> subsp. <i>coriacea</i> , <i>Salsola australis</i>
Ground stratum	Mid (0.5-1 m)		* <i>Cenchrus ciliaris</i>



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Appendix C
Onslow Township Resort Bushfire
Management Plan

Bushfire management plan/Statement addressing the Bushfire Protection Criteria coversheet

Site address: Site visit: Yes No Date of site visit (if applicable): Day Month Year Report author or reviewer:

WA BPAD accreditation level (please circle):

Not accredited Level 1 BAL assessor Level 2 practitioner Level 3 practitioner

If accredited please provide the following.

BPAD accreditation number: Accreditation expiry: Month Year Bushfire management plan version number: Bushfire management plan date: Day Month Year Client/business name:

	Yes	No
Has the BAL been calculated by a method other than method 1 as outlined in AS3959 (tick no if AS3959 method 1 has been used to calculate the BAL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any of the bushfire protection criteria elements been addressed through the use of a performance principle (tick no if only acceptable solutions have been used to address all of the bushfire protection criteria elements)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is the proposal any of the following (see [SPP 3.7 for definitions](#))?

	Yes	No
Unavoidable development (in BAL-40 or BAL-FZ)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Strategic planning proposal (including rezoning applications)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
High risk land-use	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vulnerable land-use	<input checked="" type="checkbox"/>	<input type="checkbox"/>


None of the above

Note: Only if one (or more) of the above answers in the tables is yes should the decision maker (e.g. local government or the WAPC) refer the proposal to DFES for comment.

Why has it been given one of the above listed classifications (E.g. Considered vulnerable land-use as the development is for accommodation of the elderly, etc.)?

The information provided within this bushfire management plan to the best of my knowledge is true and correct:

Signature of report author or reviewer


Date