

Environmental Constraints Report
Lot 11 SP273000

January 2022

Report No: PLA21.12.01
Prepared for: Planz Town Planning
Prepared by: Biotropica Australia Pty Ltd



This page has intentionally been left blank

DOCUMENT CONTROL SUMMARY

REPORT AND CLIENT DETAILS

Title:	Environmental Constraints Report – Lot 11 SP273000
Client:	Planz Town Planning
Client Contact:	Nikki Huddy
Status:	Final
Project Manager:	Nigel Tucker
Author/s:	Sarah Holt

This document contains the expression of the professional opinion of Biotropica Australia Pty Ltd, as to the matters set out herein, using its professional judgment and reasonable care. It is to be read in the context of the applicable Contract or quote (the Contract) between Biotropica Australia Pty Ltd and Planz Town Planning (the "Client") and the methodology, procedures and techniques used, Biotropica Australia's assumptions and the circumstances and constraints under which its mandate was performed. This document is written solely for the purpose stated in the Contract, and for the sole and exclusive benefit of the Client. The Client may disclose the document to third parties at its absolute discretion. This document is meant to be read as a whole, and sections or parts thereof should not be read or relied upon out of context. To the extent permitted by law, Biotropica Australia disclaims any liability to third parties with respect to the publication, reference, quoting or distribution of this document or any of its contents to and reliance thereon by any third party.

This report does not purport to give legal advice; if required, the client should seek independent legal advice.

REVISION/QUALITY ASSURANCE								
REVISION NUMBER	DATE	CHECKED BY		ISSUED BY		DISTRIBUTION – NO. OF COPIES		
						Client	Other	Biotropica Library
0	05/01/2022	GH	✓	NT	✓	1	0	1
Final	19/01/2022	GH	✓	SH	✓	1	0	1



BIOTROPICA Australia Pty Ltd
 PO Box 866
 MALANDA QLD 4885

Telephone: (07) 4095 1116
 Facsimile: (07) 4095 1296
 Email: info@biotropica.com.au
 Web: www.biotropica.com.au



Biotropica Australia Pty Ltd Quality Management System has been certified to ISO 9001:2008 by SAI Global. Use of the SAI Global Accreditation Marks is in accordance with SAI Global grant of licence to a registered company. This document may contain confidential or privileged information and is intended for the sole use of the person(s) to whom it is addressed. This document is copyright.

This page has intentionally been left blank

Table of Contents

1.0	INTRODUCTION	1
2.0	METHODOLOGY	1
2.1	DESKTOP REVIEW.....	1
2.2	FIELD SURVEY.....	2
3.0	DESKTOP RESULTS	3
3.1	LEGISLATIVE CONSTRAINTS SUMMARY	3
3.2	THREATENED SPECIES.....	4
3.3	REGIONAL ECOSYSTEMS.....	9
4.0	FIELD RESULTS - EXISTING VALUES	9
4.1	TENURE	9
4.2	VEGETATION DESCRIPTION	9
4.3	REGULATED VEGETATION.....	11
4.4	SIGNIFICANT FLORA	11
4.5	FAUNA HABITAT	11
	4.5.1 ESSENTIAL HABITAT.....	11
	4.5.2 WILDLIFE HABITAT	11
4.6	SIGNIFICANT FAUNA	12
4.7	MARINE PLANTS	12
4.8	HYDROLOGY.....	12
	4.8.1 WATERWAY BARRIER WORKS	12
4.9	EXOTIC SPECIES	13
	4.9.1 PEST FAUNA	14
5.0	LOCAL PLANNING SCHEMES	14
5.1	NATURAL AREAS OVERLAY CODE	14
6.0	SUMMARY	14

7.0 REFERENCES	15
APPENDIX 1: MAPS	16
APPENDIX 2: PROPOSED DEVELOPMENT	17
APPENDIX 3: ONLINE SEARCH RESULTS	18

List of Plates

PLATE 1: LOT 11 SP273000	10
PLATE 2: STEEP ENGINEERED SLOPE APPROX. 4-5M IN HEIGHT BETWEEN NATIVE MANGROVE VEGETATION AND THE SITE	13

List of Tables

TABLE 1: DATASETS AND RESOURCES REVIEWED.....	2
TABLE 2: LEGISLATIVE CONSTRAINTS ON LOT 4 SP128461.....	3
TABLE 3: THREATENED AND MIGRATORY SPECIES ONLINE SEARCH RESULTS.....	1
TABLE 4: MAPPED RE'S.....	9
TABLE 5: SPECIES LIST.....	9

1.0 INTRODUCTION

Biotropica Australia (Biotropica) has been commissioned by Planz Town Planning on behalf of Morris Aviation Australia (Nautilus Aviation) to undertake an environmental constraints assessment on Lot 11 SP273000 at Port Douglas. Nautilus Aviation has applied for a helipad and care-takers accommodation to be developed on this site (refer APPENDIX 2).

A ground survey was conducted in December 2021 which aimed to identify and classify any environmental matters present. All ecological matters which have the potential to be impacted by the proposed development are considered. Impacts on air, noise, dust and marine / aquatic species are outside of the scope of this report.

This report details the environmental constraints identified during desktop and field-based assessments.

2.0 METHODOLOGY

2.1 Desktop Review

Desktop interrogation of online databases and spatial datasets on relevant Commonwealth, State and Local Government resources was conducted. The results of these searches have been used as background for this report.

Table 1 below details the datasets reviewed as part of this report. To meet the desktop research requirements in the Flora Survey and Assessment in Northern Queensland (Wannan 2012), *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) Protected Matters Search and *Nature Conservation Act 1992* (NC Act) Wildlife Online searches were performed on central co-ordinates for the property (-16.49145 / 145.46043) with a 10km buffer for the Wet Tropics (refer APPENDIX 3). To obtain a more accurate determination of the species likely to occur within the Project, further searches of both databases was undertaken, with a 1km buffer. All marine species with the exception of turtles were excluded from this assessment as the development does not extend below HAT (highest astronomical tide).

The results of the searches were used to gain an insight into the threatened species and Matters of National and State Environmental Significance (MNES / MSES) that may be present in the area and to allow targeted searches for these matters during field survey.

Table 1: Datasets and resources reviewed.

Database
Atlas of Living Australia (ALA) – Species Records
NC Act – Wildlife Online & Biomaps (Queensland Government)
EPBC Act – Protected Matters Search Tool (PMST) (Commonwealth Government)
QLD <i>Vegetation Management Act 1999</i> (VM Act) - Regional Ecosystem (RE) and Remnant Map – V12.0
VM Act - Regulated Vegetation Management Map V5.03
VM Act - Essential Habitat Map V10.03
VM Act - Watercourse Map V5.0
VM Act – Wetlands Map V7.03
QLD MSES – <i>State Planning Policy 2017</i> (SPP)
QLD MSES – <i>Offsets Regulation 2014</i>
QLD Wetlands Mapping – Wetland Data V5
NC Act – Protected Plants High-risk Trigger Area V8.0
Waterways for Waterway Barrier Works (WWBW)
<i>Environmental Protection Regulation 2019</i> – Wetland Protection Areas (WPA's)
State-wide Biodiversity Corridors
<i>Water Act 2000</i> - Watercourse Identification Map V66
Douglas Shire Council (CSC) Planning Scheme 2018

2.2 Field Survey

A Biotropica Australia ecologist completed a field survey on 16th December 2021. The purpose of the survey was to, (a) verify the findings of the desktop assessment and provide further information about the type, condition and extent of vegetation communities and fauna habitats present and, (b) identify any other relevant matters.

Field assessment investigated the following elements:

- Verification of mapped remnant / non-remnant vegetation;
- Prevalence of exotic species;
- Integrity and distribution of native flora, including the type and locality of habitats that may support conservation significant flora and fauna listed under the EPBC Act and / or NC Act;
- Identification of habitat values – including remnant and non-remnant vegetation, wetlands and water courses;

Botanical nomenclature used within the report follows Brown and Bostock (2020).

Waypoints were taken at all notable ecological features using a Garmin 64s GPS. Points were transformed using the ArcGIS platform. A 3m-5m error should be anticipated.

3.0 DESKTOP RESULTS

3.1 Legislative Constraints Summary

Table 2 below summarises the legislative constraints in relation to the environmental values present within the property. All relevant designations will be discussed in Section 4.0 below, based on the results of the field survey.

Table 2: Legislative constraints on Lot 11 SP273000.

Legislative Constraints	Applicability to Lot 11 SP273000
Matters of National Environmental Significance	
EPBC Act – listed threatened species (including migratory species)	Unlikely
EPBC Act – listed threatened ecological communities	No
Wetlands of International Importance (RAMSAR)	No
Commonwealth marine areas	No
Great Barrier Reef Marine Park	No
World Heritage Properties	No
Matters of State Environmental Significance	
State Conservation Areas	
MSES A - Protected Area under <i>Nature Conservation Act 1992</i> (All classes except coordinated conservation areas)	No
MSES B – Highly protected zones under <i>Marine Parks Act 2014</i>	No
MSES C – Declared fish habitat areas A and B under <i>Fisheries Regulation 2008</i>	No
MSES D – Strategic Environmental Areas (Designated Precinct) under <i>Regional Planning Interests Regulation 2014</i> (Offsets not required in an urban area)	No
Wetlands and Waterways	
MSES E – WPA or ‘High Ecological Significance’ Wetlands shown on map of Referable Wetlands under <i>Environmental Protection Regulation 2008</i>	No
MSES F – High Ecological Value (HEV) Waters (Wetlands & <u>Waterways</u>) under <i>Environmental Protection (Water) Policy 2009</i>	No
Offsets	
MSES G – Legally secured offset areas as defined under the <i>Environmental Offsets Act 2014</i>	No
Threatened Flora and Fauna	
MSES H – Threatened wildlife and wildlife habitat listed under the <i>Nature Conservation (Animals / Plants) Regulation 2020</i>	No
MSES H – Special Least Concern animals and habitat listed under the <i>Nature Conservation (Animals) Regulation 2020</i>	No

Legislative Constraints	Applicability to Lot 11 SP273000
MSES I – Marine plants under the <i>Fisheries Act 1994</i> (Offsets not required in an urban area)	Possible
MSES J – Waterways that provide for fish passage under the <i>Fisheries Act 1994</i> (Offsets not required in an urban area)	No
MSES K – High risk area on flora survey trigger map under the <i>Nature Conservation Act 1992</i> and/or the <i>Environmental Offsets Regulation 2014</i>	No
MSES L - Regulated Vegetation under the <i>Vegetation Management Act 1999</i> that is:	
Category B areas on RVM that are ‘endangered’ and ‘of concern’ regional ecosystems (of concern does not require offsets in an urban area)	No
Category C areas on RVM that are ‘endangered’ and ‘of concern’ regional ecosystems	No
Category R areas on RVM	Yes
Essential Habitat on the essential habitat map for wildlife prescribed as ‘endangered’ or ‘vulnerable’ under the <i>Nature Conservation Act 1992</i> (Offsets not required in an urban area)	No
Threatened Flora and Fauna	
Category A, B, C or R areas on RVM that are within a defined distance from a watercourse identified on vegetation management watercourse and drainage map (Offsets not required in an urban area)	No
Category A, B, C or R areas on RVM that are located within a wetland or within 100m from a wetland identified on vegetation management wetlands map (Offsets not required in an urban area)	No
Additional MSES defined under the <i>Offsets Regulation 2014</i>	
Connectivity areas – applies to the extent the ecosystem contains remnant vegetation and if the ecosystem contains an area of land that is required for ecosystem functioning	No
Additional Matters (statutory and non-statutory)	
Queensland waterways for waterway barrier works (WWBW)	Yes. Part of the Lot is mapped as tidal (grey) under the WWBW mapping.
Waterways – as mapped under the <i>Water Act 2000</i>	No
Wetlands - mapped under Queensland’s wetland mapping	No
State-wide biodiversity corridors	No.
Local Government Values	
Zoning	Industry
Natural Areas Overlay	Yes, partly.

3.2 Threatened Species

Table 3 below lists the threatened and migratory species returned from the 1km search on the property’s central co-ordinates (refer Section 2.1). The list provides an insight into the potential presence of threatened species and migratory birds within the property to target during survey; the results of which are discussed further below in Section 4.0. Occurrence likelihood is based on desktop assessment prior to survey.

Table 3: Threatened and migratory species online search results.

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
Fauna							
<i>Anous stolidus</i>	Common Noddy	SLC	MMB	Bird	In Australia, the Common Noddy occurs mainly in ocean off the Queensland coast, but the species also occurs off the north-west and central Western Australia coast. The species is also rarely encountered off the coast of the Northern Territory, where only one breeding location with about 100-130 birds is known.	Occurs on or near islands, on rocky islets and stacks with precipitous cliffs, or on shoals or cays of coral or sand. When not at the nest, individuals will remain close to the nest, foraging in the surrounding waters. During the non-breeding period, the species occurs in groups throughout the pelagic zone.	Unlikely due to lack of suitable habitat
<i>Apus pacificus</i>	Fork-tailed swift	SLC	MMS	Bird	The Fork-tailed Swift is a non-breeding visitor to all states and territories of Australia. There are scattered records in the Gulf Country, and on Cape York Peninsula. In the north-east region there are many records east of the Great Divide from near Cooktown and south to Townsville.	Almost exclusively aerial, flying from less than 1 m to at least 300 m above ground and probably much higher. In Australia, they mostly occur over inland plains but sometimes above foothills or in coastal areas. They often occur over cliffs and beaches and also over islands and sometimes well out to sea.	May overfly the site
<i>Calidris canutus</i>	Red knot, Knot	E SLC	E MWS	Bird	Occurs across the entire Australian coastline. In QLD, species is widespread south of Townsville.	Intertidal mudflats, sandflats, sandy beaches, estuaries, bays, inlets, lagoons, coral reefs, saline wetlands. They rarely use inland, freshwater lakes or swamps. Forages at the water's edge. Roosts on beaches and mudflats in open areas, close to feeding grounds.	Unlikely due to lack of suitable habitat (no mud / sand, only compacted fill)
<i>Calidris ferruginea</i>	Curlew sandpiper	CE SLC	CE MWS	Bird	Occurs across coastal Australia. In QLD, widespread along coast, south of Cairns, and Gulf of Carpentaria.	Intertidal mudflats in sheltered, coastal areas, estuaries, bays, inlets, lagoons, non-tidal swamps and lakes. Sometimes occurs inland near lakes and waterholes with bare edges of mud or sand. Found in fresh and brackish water. Roosts on bare beaches, dunes and saltmarsh.	Unlikely due to lack of suitable habitat (no mud / sand, only compacted fill)
<i>Calidris tenuirostris</i>	Great knot	CE SLC	CE MWS	Bird	Occurs across coastal Australia. In QLD common along south-eastern Gulf of Carpentaria, Shoalwater Bay and Mackay regions.	Sheltered coastal, intertidal mudflats or sandflats, estuaries, lagoons, exposed reefs and mangroves. Sometimes found on inland lakes or swamps.	Unlikely due to lack of suitable habitat (no mud / sand, only compacted fill)

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Caretta caretta</i>	Loggerhead turtle	E	E MMS	Reptile	The species has a global distribution throughout tropical, sub-tropical and temperate waters. In Australia it is found around much of the Australian coastline.	Occurs in the waters of coral and rocky reefs, seagrass beds and muddy bays throughout eastern, northern and western Australia.	Unlikely due to lack of suitable habitat
<i>Casuaris casuaris johnsonii</i> (southern population)	Southern cassowary (southern WT population)	E	E	Bird	Southern population from the Wet Tropics bioregion occurs between Paluma and Cooktown. 89% of remaining habitat lies within protected areas.	Primarily in rainforest, both upland and lowland. They also use woodlands, Melaleuca swamps, mangroves and beaches.	Unlikely due to lack of habitat (no trees or shrubs)
<i>Chelonia mydas</i>	Green turtle	V SLC	V MMS	Reptile	Green turtles are found in tropical and subtropical waters throughout the world. In Australia, they nest, forage and migrate across tropical northern Australia	Species inhabits tropical and sub-tropical waters, though may occasionally stray into temperate waters. They spend their early life drifting on ocean currents and later settle in shallow benthic foraging habitats such as tropical tidal and sub-tidal coral and rocky reef habitat or inshore seagrass beds.	Unlikely due to lack of habitat
<i>Crocodylus porosus</i>	Estuarine crocodile	V SLC	MMS	Reptile	Found in northern Australia from Rockhampton in QLD to Broome in WA. In QLD, the species is found from Gladstone on the east coast to QLD-NT border in the west.	Coastal waters, estuaries, lakes, inland swamps, billabongs and marshes up to 150km inland from the coast. Generally inhabits the lower reaches of rivers.	Unlikely due to lack of habitat.
<i>Cuculus optatus</i>	Oriental cuckoo	SLC	MTS	Bird	Found in northern and eastern Australia. Species breeds in Europe and Asia.	Occurs in monsoon forest, wet sclerophyll forest, paperbark swamps, mangroves and riparian vegetation.	Unlikely due to lack of suitable habitat
<i>Dasyurus hallucatus</i>	Northern quoll, Digul	-	E	Mammal	Found across northern Australia. In QLD, occurs south of Rockhampton to Carnavon Range and north to Weipa in CYP.	A wide range of habitats including rocky areas, eucalypt forest, rainforest, beaches, shrubland, grassland and desert. Rocky areas and tree hollows are generally used for denning.	Unlikely due to lack of suitable habitat.
<i>Dermochelys coriacea</i>	Leatherback turtle	E SLC	E MMS	Reptile	The Leatherback Turtle is a pelagic feeder, found in tropical, subtropical and temperate waters throughout the world. They also utilise cold water foraging areas unlike other sea turtle species. It has been recorded feeding in the coastal waters of all Australian States.	A highly pelagic species, venturing close to shore mainly during the nesting season. They require sandy beaches to nest, with some evidence that coarser sand is more conducive to successful hatching than finer sand.	Unlikely due to lack of suitable nesting substrate

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Egernia rugosa</i>	Yakka skink	V	V	Reptile	Found from QLD / NSW border to CYP, to Charleville in the west. Its range is highly fragmented due to historical land clearing.	Occurs in open, dry sclerophyll forest, woodland and scrub, generally dominated by <i>Eucalyptus</i> spp. or <i>Acacia</i> spp. Found under rocks, logs, root cavities, burrows or dense vegetation. Generally, not found in trees or rocky habitats. Lives in a communal burrow, rarely ventures far from cover, it's presence often portrayed by communal defecation site outside burrow.	Unlikely due to lack of suitable habitat
<i>Eretmochelys imbricata</i>	Hawksbill turtle	V SLC	E MMS	Reptile	They are found in tropical, subtropical and temperate waters in all the oceans of the world. Nesting is mainly confined to tropical beaches. They have been seen in temperate regions as far south as northern NSW.	The species spends its early years drifting on ocean currents, later settling and foraging in tropical tidal and sub-tidal coral and rocky reef habitats. In Queensland, Milman Island and the inner Great Barrier Reef Cays north from Cape Grenville are important foraging grounds and key breeding areas, as well as juvenile Hawksbill habitat.	Unlikely due to lack of suitable nesting substrate
<i>Erythrotriorchis radiatus</i>	Red goshawk	E	V	Bird	Coastal to sub-coastal north-eastern Australia from the west Kimberley to northern NSW. Some records are located within central Australia (NT).	Coastal and sub-coastal woodlands and riverine forests of medium density. The species nests in large trees, generally the tallest in the stand. Nest trees are usually within 1km of permanent water. They may use dense forests as a drought refuge.	Unlikely due to lack of suitable habitat (no shrubs or trees)
<i>Falco hypoleucos</i>	Grey falcon	V	V	Bird	Interior of Australian mainland. In QLD the species is found from Rossville in the north down to the QLD / NSW border and west to the NT border.	Favours woodlands (typically <i>Acacia</i> dominated), shrublands and grasslands in arid and semi-arid areas, interspersed with tree-lined watercourses. Often observed perching on dead branches.	Unlikely due to lack of suitable habitat (no shrubs or trees)
<i>Fregata ariel</i>	Lesser Frigatebird	SLC	MMB	Bird	Found in tropical and subtropical waters around Australia, common in northern and eastern Australia. Species breeds between May - December on remote Islands including Christmas Island.	The species is mostly pelagic, inhabiting remote islands off the Australian coastline. During breeding season they nest in trees. Often seen from the mainland prior to the onset of a tropical cyclone.	Unlikely due to lack of suitable habitat
<i>Fregata minor</i>	Great Frigatebird	SLC	MMB	Bird	Found in tropical waters globally. In Australia, they are scattered around the coastline, though more common in the east.	The species is mostly pelagic, inhabiting remote islands off the tropical Australian coastline. In breeding season, they nest in trees and shrubs, including in mangroves. On larger islands, nests can occur several km inland.	Unlikely due to lack of suitable habitat

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Fregatta grallaria grallaria</i>	White-bellied Storm-Petrel	-	V	Bird	The White-bellied Storm-Petrel (Tasman Sea) breeds on small offshore islets and rocks in the Lord Howe Island group, including Roach Island and Balls Pyramid	This species breeds in at least two locations in Australia: Roach Island and Balls Pyramid, in the Lord Howe Island group. It is reported to breed on Mutton Bird Island, but this has not been confirmed, and it possibly also breeds on other offshore islets and rocks in the Lord Howe Island group, such as Blackburn Island	Unlikely as not within known range
<i>Hipposideros cervinus</i>	Fawn leaf-nosed bat	V	-	Mammal	In QLD the fawn leaf-nosed bat is found in Cape York, north of Coen and in the Torres Strait, with an isolated population on Dunk Island. It has been recorded in Kutini-Payamu (Iron Range) National Park (CYPAL), Ngalba Bulal National Park, Oyala Thumotand National Park (CYPAL) and Kulla (McIlwraith) National Park (CYPAL).	Roosts in caves and abandoned mines, and occasionally in sheds and buildings. It hunts in a range of habitats including rainforest, gallery forest along watercourses, and open savannah woodland.	Unlikely due to lack of suitable habitat
<i>Hirundapus caudacutus</i>	White-throated needletail	V	V	Bird	Widespread in eastern and south-eastern Australia. In eastern Australia the species is recorded in all coastal regions of QLD and NSW, much of coastal VIC, parts of south-eastern SA and widespread in TAS.	In Australia the species is mainly aerial from 1m to >1000m above the ground. Although they occur over most forest types, they are recorded most often over wooded areas including open forest and rainforest. They may also fly below the canopy. The species roosts in trees amongst dense foliage in the canopy or in hollows.	Unlikely due to lack of suitable habitat (no woody vegetation)
<i>Hirundo rustica</i>	Barn swallow	SLC	MTS	Bird	Usually occurs in northern Australia. Patchy habitat along the coast from the Pilbara region, WA to Fraser Island, QLD.	Occurs from sea level up to 3000m elevation. Prefers artificial structure such as barns or powerlines. Has been known to utilise open country such as pasture when breeding.	Possible
<i>Lepidochelys olivacea</i>	Olive Ridley turtle		E	Reptile	The species has a global distribution throughout tropical, sub-tropical and temperate waters. In Australia it is found around much of the Australian coastline	They are present all year round over soft bottomed habits of northern Australian continental shelf waters. Females nest on sandy beaches and then hatchlings disperse into offshore currents and have a pelagic phase of unknown length. Juveniles and adults reside in coastal zones along the northern coast of Australia.	Unlikely due to lack of suitable substrate
<i>Limosa lapponica baueri</i>	Bar-tailed godwit (<i>baueri</i>), Western Alaskan Bar-tailed godwit	V SLC	V MMS	Bird	The species breeds across the arctic and winters along the coastal tropical and subtropics including Australia. Found in all coastal areas of all Australian states. Widespread in the Torres Strait, and eastern coasts of QLD, NSW and VIC.	Species does not breed in Australia. Found in coastal habitats such as intertidal mudflats, sandflats, estuaries, inlets, harbours, lagoons and bays. Less frequently found in salt lakes, brackish wetlands, sandy ocean beaches, saltmarsh and mangrove areas.	Unlikely due to lack of suitable habitat (no mud or sand, only rock or compacted fill)

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Litoria dayi</i>	Australian lacelid	V	V	Amphibian	Restricted to the Wet Tropics bioregion between Cooktown and Paluma, between 0m-1200m asl. However, the species has disappeared from upland sites >400m.	Found in rocky streams in rainforest, and rainforest margins. They occur near fast-flowing and slower watercourses where vegetation is present along the margins, narrow ephemeral streams, rock soaks, and rock outcrops in larger watercourses.	Unlikely due to lack of habitat
<i>Macroderma gigas</i>	Ghost bat	E	V	Mammal	Found in northern Australia between the Pilbara and CYP, down to Rockhampton on the eastern QLD coast.	Favoured habitats include tropical savannah woodland, the arid Pilbara and rainforests. They roost in caves, rock crevices and old mines. Microclimates are generally a stable temperature between 23-28C and 50-100% humidity.	Unlikely due to lack of suitable habitat
<i>Mesembriomys gouldii rattoides</i>	Black-footed tree-rat (NQ subspecies)	-	V	Mammal	Mareeba in the south to CYP.	Occurs in Eucalypt forests and woodlands where hollows are plentiful. The species dens in tree hollows, but occasionally in dense foliage or buildings. One record of denning occurred in rainforest-eucalypt forest boundary. Foraging occurs within 500m of den.	Unlikely due to lack of suitable habitat
<i>Monarcha frater</i>	Black-winged monarch	SLC	MTS	Bird	Found in northern Australia from Cape York south along the coast going inland from Cairns to Atherton	Found in rainforest, mangroves, and adjacent eucalypt woodland.	Unlikely due to lack of suitable habitat
<i>Monarcha melanopsis</i>	Black-faced monarch	SLC	MTS	Bird	Widespread throughout Australia in Queensland from islands of the Torres Strait and on Cape York south along the coast into NSW and Victoria.	Mainly occur in rainforest ecosystems, including semi-deciduous vine-thickets, complex notophyll vine-forest, tropical (mesophyll) rainforest, subtropical (notophyll) rainforest, mesophyll (broadleaf) thicket/shrubland, warm temperate rainforest, dry (monsoon) rainforest and (occasionally) cool temperate rainforest.	Unlikely due to lack of suitable habitat
<i>Motacilla flava</i>	Yellow wagtail	SLC	MTS	Bird	Species likely to occur between Cooktown and Townsville.	Occupies a range of damp or wet habitats from damp meadows, marshes, waterside pastures and bogs to damp steppe and grassy tundra.	Possible
<i>Myiagra cyanoleuca</i>	Satin flycatcher	SLC	MTS	Bird	<i>M. cyanoleuca</i> move north in autumn to spend winter in northern Australia and New Guinea. They return south in spring to spend summer in south-eastern Australia.	The species mainly inhabit riparian forests or dense eucalypt forests, often near wetlands or watercourses.	Unlikely due to lack of suitable habitat

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Natator depressus</i>	Flatback turtle	V SLC	V MMS	Reptile	Found only in the tropical waters of northern Australia, Papua New Guinea and Irian Jaya, the flatback turtle is one of only two species of sea turtle without a global distribution. Occurring in WA, NT, Torres Strait and eastern QLD	Post-hatchling and juvenile Flatback Turtles do not have the wide dispersal phase in the oceanic environment like other sea turtles. Adults inhabit soft bottom habitat over the continental shelf of northern Australia. feed in turbid, shallow inshore waters north of latitude 25° S.	Unlikely due to lack of suitable substrate
<i>Numenius madagascariensis</i>	Eastern curlew	E SLC	CE MWS	Bird	Found in coastal Australia particularly the north, east and south-east regions.	Occurs in sheltered coasts, estuaries, bays, harbours, inlets, lagoons, mudflats, sandflats, beaches, reefs, saltmarsh, mangroves and sewerage farms. They roost on sand near the high-water mark, along coastal vegetation, occasionally in trees.	Unlikely due to lack of suitable habitat (no mud or sand, only rock or compacted fill)
<i>Phascolarctos cinereus</i>	Koala	V	V	Mammal	Found in eastern and south-eastern Australia. The distribution in the far north extends up to Cairns and west to Hughenden.	Inhabits a range of communities dominated by Eucalyptus species. Generally any forest or woodland containing species that are known koala food trees. They have been found in modified or regenerating communities as well as urban and rural landscapes.	Unlikely due to lack of suitable habitat
<i>Pteropus conspicillatus</i>	Spectacled flying-fox	E	E	Mammal	The species occurs in north-east QLD, north of Cardwell to Cooktown, and between McIlwraith Range to Iron Range. Historically the species was recorded from Brisbane and Chillagoe.	It is noted that the species generally roosts within 6.5km of rainforest, although a roost 16km has been observed. Mabi forest is considered key habitat, but the species is also found foraging on non-rainforest Eucalypt species in tall open forest, woodland and savannah west of the Wet Tropics region.	Unlikely due to lack of suitable habitat (no trees on site)
<i>Rhinolophus robertsi</i> (large form) (syn. <i>Rhinolophus philippinensis</i>)	Greater large-eared horseshoe bat	E	V	Mammal	Found in north QLD between Iron Range and south of Townsville and west to Chillagoe. Have breeding pairs	Inhabits lowland rainforest, riparian forest, Melelauca forest, open savannah woodland and tall riparian woodland. Roosts have been found in caves, underground mines, road culverts, basal hollows of large trees and under creekbanks. Foraging occurs in open forest and wattle-dominated ridges in rainforest and in the thicker vegetation around creek-lines flying within the lower half of the canopy, using gaps in the rainforest.	Unlikely due to lack of suitable habitat
<i>Rhipidura rufifrons</i>	Rufous fantail	SLC	MTS	Bird	Found near costal districts of northern and eastern Australia. Has breeding pairs south of the NSW-Queensland border. Winters in Northern Australia.	In north Australia, they occur in tropical rainforest and monsoon rainforests, including semi-evergreen mesophyll vine forests, semi-deciduous vine thickets or thickets of Paperbarks	Unlikely due to lack of suitable habitat

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Rostratula australis</i>	Australian painted snipe	E	E	Bird	The species has been recorded across all states and territories, though is most common in eastern Australia. In far north QLD, records do not extend beyond north of Mount Carbine.	Occurs in shallow freshwater wetlands, both ephemeral and permanent, lakes, swamps, claypans, saltmarsh, waterlogged grassland, dams, rice crops, sewerage farms and samphire. Breeding habitat is specific and comprises shallow wetlands with areas of bare wet mud and canopy cover nearby. Nests are on the ground on small islands in freshwater wetlands.	Unlikely due to lack of suitable habitat (no wetlands, mud or sand, only compacted fill)
<i>Saccolaimus saccolaimus nudicluniatus</i>	Bare-rumped sheath-tail bat	E	V	Mammal	Found in coastal north-QLD between just south of Townsville to the Iron Range in CYP. A second distinct population is found in the NT, and the species has been suggested to likely occur in the Kimberley in WA.	In QLD, the species inhabits tropical eucalypt woodland, preferring open woodland particularly poplar gum (<i>Eucalyptus platyphylla</i>) woodland and tall open forest. Most roosts are found in <i>E. platyphylla</i> approximately 10-15m above the ground. Roosting occasionally in caves and mines. Foraging occurs above the canopy.	Unlikely due to lack of suitable habitat
<i>Sternula albifrons</i>	Little tern	SLC	MMS	Bird	A strongly migratory sea bird with populations located on the north and north eastern coast of Australia.	Prefer coastal environments more often sheltered such as estuaries, bays, inlets, lakes, and coastal swamps. The species breed on barren sparsely vegetated beaches	Possible
<i>Symposiachrus trivirgatus</i>	Spectacled monarch	SLC	MMS	Bird	Found along the east coast of Australia a resident of north east QLD migrant to south east Queensland and north east NSW	Tropical subtropical lowland forests often mangroves and rainforests but also dense wet gullies of eucalypt forests.	Unlikely due to lack of suitable habitat
<i>Turnix olivii</i>	Buff-breasted button-quail	E	E	Bird	Scattered records in north east QLD between the Iron Range in CYP to Ingham. There are no recent records near Coen or Cooktown.	Found in patches of short, sparse grassland on terrain with small stones, often on the lower slopes of hills and ridges, in rainforest or open eucalypt woodland.	Unlikely due to lack of suitable habitat.
<i>Tyto novaehollandiae kimberli</i>	Masked owl (northern subspecies)	V	V	Bird	Three populations are present: Kimberly, NT and Cape York, QLD. In QLD there are records extending between Normanton to the Archer River and south to the Atherton Tableland, potentially down to Mackay.	In northern Australia, the Masked Owl has been recorded from riparian forest, rainforest, open forest, Melaleuca swamps and the edges of mangroves, as well as along the margins of sugar cane fields	Unlikely due to lack of suitable habitat
<i>Xeromys myoides</i>	Water mouse, Yirrkoo	V	V	Mammal	East Coast of QLD and coastal NT. Higher densities in south-east QLD. Patchy distribution and nowhere particularly abundant. There is only one record of the species in far north QLD, near the Cairns CBD in 2017.	Mangroves and associated saltmarsh, sedgeland, claypans, heathlands and freshwater wetlands. Intertidal and freshwater habitats, including Melaleuca wetlands and saline grassland habitat. In tidal areas, the species nests in mound often between the buttress roots of mangrove trees.	Possible in adjacent mangroves

Flora

Scientific Name	Common Name	NCA 1992 (Qld) Status	EPBC Act 1999 (Federal) Status	Growth Form	Distribution (Aust)	Habitat	Occurrence Likelihood
<i>Bruguiera x hainesii</i> (syn. <i>Bruguiera hainesii</i>)	Haines's orange mangrove	CE	CE	Mangrove tree	In Australia, Haines's Orange Mangrove is known from one population adjacent to Trinity Inlet in Portsmith.	In Australia, the species occurs in the landward mangrove zone where it is inundated by only very high tides. It co-occurs with <i>Aegiceras corniculatum</i> , <i>B. cylindrica</i> , <i>B. gymnorhiza</i> and <i>Xylocarpus granatum</i> . In Australia, flowers have been recorded in January, February and March.	No suitable habitat (no mangroves on site)
<i>Canarium acutifolium</i>	-	V	V	Tree	Restricted to the area between Mossman and Tully.	Grows along creek and river banks in mesophyll vine forest. Found between 0-100m asl.	Unlikely due to lack of suitable habitat
<i>Dendrobium bigibbum</i> (syn. <i>Vappodes phalaenopsis</i>)	Cooktown orchid	V	V	Epiphytic or lithophytic orchid	Found in north QLD, from Mount Molloy to the Torres Strait, between 0-400m asl.	Grows on trees and rocks with moderate light intensity in a range of habitats including coastal scrub, streambank vegetation, monsoon thickets and gullies in open forest and woodland where fire cannot penetrate. It is known to rapidly colonise disturbed sites.	Unlikely due to lack of suitable habitat
<i>Myrmecodia beccarii</i>	Ant plant	V	V	Epiphyte	Found between Cape York and Townsville.	Grows in open coastal woodlands dominated by <i>Melaleuca</i> spp. or mangroves. Host trees vary and although the species is most common on <i>Melaleuca</i> spp. and mangrove hosts, the species has been recorded on <i>Corymbia</i> and <i>Allocasuarina</i> .	Absent due to lack of suitable host trees on the Lot.
<i>Phalaenopsis rosenstromii</i> (syn. <i>Phalaenopsis amabilis</i> var. <i>rosenstromii</i>)	Native moth orchid	E	E	Epiphytic or lithophytic orchid	Occurs in north-east QLD sporadically from Iron Range in the north to Paluma Range in the south.	Grows in trees, rarely on rocks, in humid airy situations on sheltered slopes and in gullies, in deep gorges and close to streams in rainforest. Found between 200-500m a.s.l.	Unlikely due to lack of suitable habitat
<i>Toechima pterocarpum</i>	Orange tamarind	E	E	Tree	Found around the Julatten, Mossman and Wangetti areas.	Grows in lowland tropical rainforest, often along watercourses. Found from 0-450m a.s.l.	Unlikely due to lack of suitable habitat (forest)

3.3 Regional Ecosystems

Only one RE is mapped within the survey shown below in Table 4. This vegetation is mapped as Category R vegetation which is “native woody vegetation on freehold land, Indigenous land or leasehold land granted for agriculture or grazing purposes, located within 50 meters of a watercourse in the Burdekin, Mackay, Whitsunday and Wet Tropics Great Barrier Reef catchments”. Composition of the communities identified during the ground survey are discussed further in Section 4.0.

Table 4: Mapped RE's.

RE	VM Status	Biodiversity Status	Description
7.1.1	LC	No concern at present	Mangrove closed scrub to open forest of areas subject to regular tidal inundation

4.0 FIELD RESULTS - EXISTING VALUES

4.1 Tenure

Lot 11 on SP273000 is freehold land.

4.2 Vegetation Description

Site vegetation is dominated by exotic species comprised of plants that are commonly seen in disturbed sites across north Queensland. Few woody species are present; grasses, vines and herbs account for the majority. This vegetation occurs on imported fill, which slopes steeply on the eastern and northern sides where it abuts the original level; intact mangrove vegetation remains at the original level (refer Plate 1). Table 5 below contains a list of all species present on the development footprint.

Table 5: Species list

Species	Common name
<i>Calopogonium mucunoides</i>	Calopo
<i>Chloris gayana</i>	Rhodes grass
<i>Cynodon dactylon</i>	Couch grass
<i>Distimake quinquefolia</i>	Mile-a-minute
<i>Macroptilium atropurpurea</i>	Siratro
<i>Macroptilium lathyroides</i>	Phasey bean
<i>Megathyrsus maximus var. maximus</i>	Guinea grass
<i>Mimosa pudica</i>	Sensitive weed
<i>Richardia brasiliensis</i>	White-eye

Species	Common name
<i>Sesbania cannabina</i>	Sesbania
<i>Sida rhombifolia</i>	Belly-ache bush
<i>Sphagneticola trilobata</i>	Singapore daisy
<i>Stachytarpheta jamaicensis</i>	Blue snake weed
<i>Triumfetta rhomboidea</i>	Triumfetta



Plate 1: Lot 11 SP273000

4.3 Regulated Vegetation

The Regulated Vegetation Map (RVM) shows that the eastern side of the Lot is Category X vegetation and is exempt from the *Vegetation Management Act 1999* (VM Act).

The western side of the Lot is mapped as Category R vegetation which is defined as “native woody vegetation on freehold land, Indigenous land or leasehold land granted for agriculture or grazing purposes, located within 50 meters of a watercourse in the Burdekin, Mackay, Whitsunday and Wet Tropics Great Barrier Reef catchments”. Although part of the Lot is mapped as a Category R area, as no native vegetation is present, clearing of the vegetation present (i.e., weeds) is not regulated and is considered exempt.

4.4 Significant Flora

Desktop searches returned six threatened flora species (refer Table 3 above), however as there are no trees or shrubs within the Lot, it was considered highly unlikely that any of the listed species would be recorded during the survey.

No threatened flora species were recorded during the survey. The likelihood that threatened flora species do occur within the survey area, but were not identified during the survey, is considered very low.

4.5 Fauna Habitat

As the Lot contains no trees or shrubs, and the ground cover is dominated by exotic species, there is very limited vegetative habitat for fauna species. There is no suitable habitat for wading birds or turtles as the substrate consists of compacted gravel and rock to the water line, with no sand or mud habitat within the Lot.

4.5.1 Essential Habitat

Essential Habitat mapping identifies sites and locations considered to contain important habitat for flora and fauna of conservation significance. Essential Habitat is only mapped over remnant vegetation and is regulated under the VM Act.

There is no Essential Habitat mapped across the site and this matter will not be considered further.

4.5.2 Wildlife Habitat

Wildlife Habitat is an MSES under the SPP and the EO Regulation. Under the SPP, Wildlife Habitat mapping consists of known or modelled habitat for threatened, near threatened and special least concern (SLC) animals occurring within remnant and regrowth vegetation.

There is no Wildlife Habitat mapped across the site and this matter will not be considered further.

4.6 Significant Fauna

Desktop searches returned 45 threatened, near threatened or special least concern fauna species (including 18 migratory species) that may be present within the property (refer Table 3). As discussed above, there is very little habitat for fauna species within the site with the substrate consisting of compacted gravel with ground cover dominated by exotic grass species.

No threatened fauna species under Commonwealth or State legislation were recorded during the survey.

Given the proximity to Dickson Inlet, it is possible that shorebirds (including some threatened and/or migratory species) may utilise the adjacent mangrove / shoreline areas or observed overflying the site, however, their presence within the Lot would be of a transitory nature only, given the lack of suitable foraging or roosting habitat.

4.7 Marine Plants

All marine plants in Queensland are protected under the State's *Fisheries Act 1994* (Fisheries Act) in recognition of their contribution to fisheries values. Marine plants are also listed as an MSES under the SPP and the EO regulation, and as such any impacts may result in a significant residual impact on the matter, trigger approvals under State legislation and possibly incurring offsets.

Mangroves and marine plants occur adjacent to the site, but they are absent from the site itself. The extent of marine plants is shown in APPENDIX 1 – Maps.

4.8 Hydrology

No mapped watercourses or wetlands are present within the Project footprint.

4.8.1 Waterway barrier works

Part of the site is mapped as 'estuary' (grey) on the Water Way Barrier Works (WWBW) map (refer APPENDIX 1 – Maps). However, site survey showed that the entire site is a raised engineered surface 3-4m above water level with no water flow into or out of the site, and no penetration of water from underground to the surface (refer Plate 2). The main site is not tidal or an estuary and has no value for fish. There is an additional small strip (approx. 5m wide) on the western extent of the site adjoining Dickson Inlet which is also mapped as estuary. This area is likely to be inundated as it is a slope below the final flat surface of the Lot. The proposed works will not cause any disturbance to this land.



Plate 2: Steep engineered slope approx. 4-5m in height between native mangrove vegetation and the site

4.9 Exotic Species

Although surrounded by mangroves on the north and east, the site has an artificial surface with a history of disturbance and any vegetation is dominated by exotic species. Whilst the majority of these weed species are relatively benign, *Sphagneticola trilobata* (Singapore daisy) is listed as a Category 3 Restricted species under the *Biosecurity Act 2014*. Under this Act, Category 3 restricted matters must not be released into the environment. None of the exotic species recorded on site are targeted within the Douglas Shire Biosecurity Management Plan.

4.9.1 Pest fauna

No animal pests were seen during the field survey and the open landscape on site makes it less likely that it will be commonly used by pest species.

5.0 LOCAL PLANNING SCHEMES

5.1 Natural Areas Overlay Code

The Performance Outcome for the Natural Areas Overlay Code is that development protects matters of environmental significance. The desktop research and site survey completed by qualified and experienced ecologists confirms that there are no matters of environmental significance within Lot 11 SP273000. The site is an artificial elevated platform which is impenetrable to water flow, has no native woody vegetation and is dominated by exotic flora species.

A net positive environmental outcome could be achieved by using native species of local provenance in the landscaping / revegetation area between the proposed development and Dickson Inlet.

6.0 SUMMARY

A constraints assessment based on both desktop and field investigations indicates that Lot 11 SP273000 has no ecological value. The site is raised above the adjacent water and vegetation by approximately 4-5m using compacted, engineered fill. Vegetation on the site is mostly low groundcover dominated by exotic species, with the remainder of the site composed of bare earth/ gravel. There is no important habitat for native fauna species due to the lack of native woody vegetation and the absence of sand / mud wading bird habitat. The site does not provide suitable habitat for protected fauna or flora species.

Legislative constraints consist of Category R vegetation mapping under the VM Act, and mapped 'estuary' area under the *Fisheries Act 1994*. Given the only vegetation present consists of exotic species, clearing of vegetation in this this Category R area is not regulated under the VM Act.

The mapped WWBW mapping is incorrect as no water is able to enter the site (required for estuary mapping and fish habitat). It is recommended that this erroneous mapping is discussed at a pre-lodgement meeting where it should be agreed that the mapping can be rectified. A correctly mapped 5m strip of the slope leading to Dickson Inlet is also marked as estuary, however this area will not be impacted by the proposed development.

A listed weed species *Sphagneticola trilobata* (Singapore daisy) was recorded within the site and care must be taken to ensure that the distribution of this species is not increased as a result of the proposed works.

Care should be taken to ensure that stormwater and any potential spills are treated appropriately so that the water quality in the adjacent watercourses and mangroves is not affected.

It is recommended that the proposed landscaped area between the development and Dickson Inlet is instead subject to revegetation using native species to create additional habitat for native and flora species. This, together with the eradication of several weed species from the site would create a net environmental gain.

7.0 REFERENCES

Brown, G. and Bostock, P. (2020). *Introduction to the Census of the Queensland Flora 2020*. Queensland Department of Environment and Science, Queensland Government.

Wannan, B. (2012). *Guidelines for Flora Survey & Assessment in Northern Queensland*. Report for EHP.

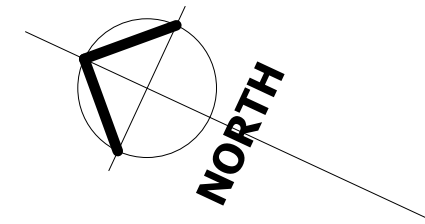
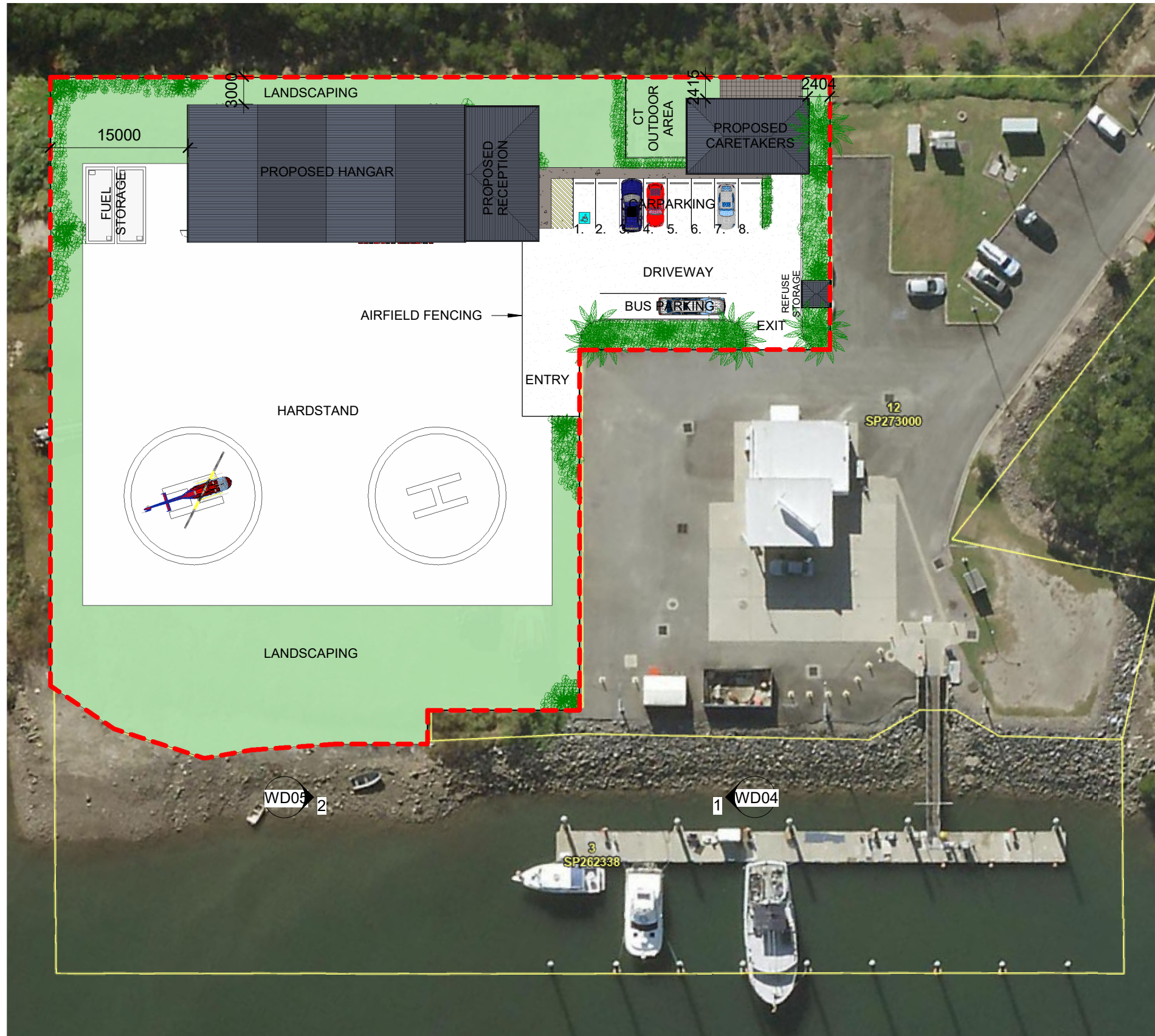
APPENDIX 1: MAPS



Includes material © The State of Queensland © Planet Labs Netherlands B.V. 2020

<h2>Legend</h2>		Lot 11 SP273000		Map 1	
<div style="display: flex; justify-content: space-around;"> <div style="border: 2px solid black; width: 30px; height: 15px; margin-bottom: 5px;"></div> DCDB</div> <div style="border: 2px solid blue; width: 30px; height: 15px; margin-bottom: 5px;"></div> WWBW_ESTUARY					

APPENDIX 2: PROPOSED DEVELOPMENT



Town Planning Information

Property Description:	LOT 11 RP273000 35-39 PORT STREET PORT DOUGLAS
Proposal:	HANGAR, OFFICE, CARETAKERS AND HELICOPTER OPERATIONS
Planning Area:	DOUGLAS SHIRE COUNCIL
Land Use:	INDUSTRY
Site Area:	4915m ²
Gross Floor Area:	HANGAR - 448m ² OFFICE - 100m ² CARETAKERS - 58m ² TOTAL - 606m ²
Site Coverage:	606M2 OR 12.32%
Car Parking Required:	1 PER 20m ² OFFICE - 5 SPACES 1 PER 2 STAFF (4 STAFF) - 2 SPACES BUS SETDOWN - 2 SPACES
Car Parking Provided:	CAR PARKS - 8 SPACES BUS SETDOWN - 2 SPACES
Landscaping Required:	20% - 983m ²
Landscaping Provided:	31.73% OR 1560m ²

1 Site
WD02 1 : 500

Site Plan

APPENDIX 3: ONLINE SEARCH RESULTS



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. Please see the caveat for interpretation of information provided here.

Report created: 04-Jan-2022

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment 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:	2
National Heritage Places:	3
Wetlands of International Importance (Ramsar)	None
Great Barrier Reef Marine Park:	4
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	3
Listed Threatened Species:	58
Listed Migratory Species:	49

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

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 Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	100
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	8
Regional Forest Agreements:	None
Nationally Important Wetlands:	1
EPBC Act Referrals:	10
Key Ecological Features (Marine):	None
Biologically Important Areas:	4
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Great Barrier Reef	QLD	Declared property	In feature area
Wet Tropics of Queensland	QLD	Declared property	In buffer area only

National Heritage Places [\[Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Indigenous			
Wet Tropics World Heritage Area (Indigenous Values)	QLD	Within listed place	In buffer area only

Natural

Great Barrier Reef	QLD	Listed place	In feature area
Wet Tropics of Queensland	QLD	Listed place	In buffer area only

Great Barrier Reef Marine Park [\[Resource Information \]](#)

Zone Type	Zone ID	IUCN	Buffer Status
Conservation Park	CP-16-4032	IV	In feature area
General Use	GU-16-6004	VI	In buffer area only
Habitat Protection	HP-16-5124	VI	In buffer area only
Marine National Park	MNP-16-1051	II	In buffer area only

Commonwealth Marine Area [\[Resource Information \]](#)

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside a Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area.

Feature Name	Buffer Status
EEZ and Territorial Sea	In buffer area only

Listed Threatened Ecological Communities [\[Resource Information \]](#)

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.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland	Endangered	Community may occur within area	In buffer area only

Community Name	Threatened Category	Presence Text	Buffer Status
Littoral Rainforest and Coastal Vine Thickets of Eastern Australia	Critically Endangered	Community likely to occur within area	In buffer area only
Lowland tropical rainforest of the Wet Tropics	Endangered	Community likely to occur within area	In buffer area only

Listed Threatened Species [[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Calidris canutus			
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Casuarius casuarius johnsonii			
Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986]	Endangered	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii			
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Erythrotriorchis radiatus			
Red Goshawk [942]	Vulnerable	Species or species habitat known to occur within area	In feature area
Falco hypoleucos			
Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Fregetta grallaria grallaria			
White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Hirundapus caudacutus			
White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Limosa lapponica baueri			
Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
Turnix olivii Buff-breasted Button-quail [59293]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Tyto novaehollandiae kimberli Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area	In feature area
FISH			
Stiphodon semoni Opal Cling Goby [83909]	Critically Endangered	Species or species habitat known to occur within area	In feature area
FROG			
Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog, Day's Big-eyed Treefrog [86707]	Vulnerable	Species or species habitat known to occur within area	In feature area
Litoria nyakalensis Mountain Mistfrog, Nyakala Frog [1820]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
MAMMAL			
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In feature area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area	In feature area
Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475]	Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180]	Vulnerable	Species or species habitat may occur within area	In feature area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area	In feature area
Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620]	Vulnerable	Species or species habitat may occur within area	In feature area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area	In feature area
Pteropus conspicillatus Spectacled Flying-fox [185]	Endangered	Species or species habitat known to occur within area	In feature area
Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889]	Vulnerable	Species or species habitat known to occur within area	In feature area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat likely to occur within area	In feature area
PLANT			
Acriopsis emarginata Pale Chandelier Orchid [83928]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Arthraxon hispidus Hairy-joint Grass [9338]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Bruguiera x hainesii Haines's Orange Mangrove [91351]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Canarium acutifolium [23956]	Vulnerable	Species or species habitat known to occur within area	In feature area
Cyclophyllum costatum a shrub [82770]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Dendrobium nindii an orchid [11289]	Endangered	Species or species habitat known to occur within area	In buffer area only
Diplazium cordifolium [15585]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Myrmecodia beccarii Ant Plant [11852]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Phaius pictus [22564]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Phalaenopsis rosenstromii listed as Phalaenopsis amabilis subsp. rosenstromii Native Moth Orchid [15984]	Endangered	Species or species habitat known to occur within area	In buffer area only
Phlegmariurus tetrastichoides Square Tassel Fern [86555]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Polyscias bellendenkerensis [7237]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Sankowskya stipularis [64699]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Toechima pterocarpum [4690]	Endangered	Species or species habitat known to occur within area	In feature area
Vappodes lithocola Dwarf Butterfly Orchid, Cooktown Orchid [78893]	Endangered	Species or species habitat known to occur within area	In feature area
Vappodes phalaenopsis Cooktown Orchid [78894]	Vulnerable	Species or species habitat may occur within area	In feature area
Zeuxine polygonoides Velvet Jewel Orchid [46794]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

REPTILE

Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area	In feature area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
SHARK			
Carcharodon carcharias			
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
Pristis pristis			
Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In feature area
Pristis zijsron			
Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area	In feature area
Rhincodon typus			
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
Sphyrna lewini			
Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area

Listed Migratory Species [[Resource Information](#)]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Anous stolidus			
Common Noddy [825]		Species or species habitat known to occur within area	In feature area
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Fregata ariel			
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In feature area
Fregata minor			
Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In feature area
Sternula albifrons			
Little Tern [82849]		Species or species habitat may occur within area	In feature area

Migratory Marine Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area	In feature area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In feature area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In feature area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area	In feature area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area	In feature area
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat likely to occur within area	In feature area
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area	In feature area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In feature area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area	In feature area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Foraging, feeding or related behaviour known to occur within area	In feature area
Migratory Terrestrial Species			
Cecropis daurica Red-rumped Swallow [80610]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area	In feature area
Monarcha frater Black-winged Monarch [607]		Species or species habitat likely to occur within area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area	In feature area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

Listed Marine Species			[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status	
Bird				
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area	
Anous stolidus Common Noddy [825]		Species or species habitat known to occur within area	In feature area	
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area overfly marine area	In feature area	
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area	
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area	
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area	
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area	
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area	
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area	

Scientific Name	Threatened Category	Presence Text	Buffer Status
Cecropis daurica as Hirundo daurica Red-rumped Swallow [80610]		Species or species habitat known to occur within area overfly marine area	In feature area
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat may occur within area overfly marine area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In feature area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area overfly marine area	In feature area
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Monarcha frater Black-winged Monarch [607]		Species or species habitat likely to occur within area overfly marine area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Sternula albifrons as Sterna albifrons Little Tern [82849]		Species or species habitat may occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area	In feature area
Fish			
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area	In feature area
Bulbonaricus davaoensis Davao Pughead Pipefish [66190]		Species or species habitat may occur within area	In feature area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In feature area
Choeroichthys sculptus Sculptured Pipefish [66197]		Species or species habitat may occur within area	In feature area
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In feature area
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area	In feature area
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area	In feature area
Corythoichthys intestinalis Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area	In feature area
Corythoichthys paxtoni Paxton's Pipefish [66204]		Species or species habitat may occur within area	In feature area
Corythoichthys schultzi Schultz's Pipefish [66205]		Species or species habitat may occur within area	In feature area
Cosmocampus maxweberi Maxweber's Pipefish [66209]		Species or species habitat may occur within area	In feature area
Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area	In feature area
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area	In feature area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In feature area
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area	In feature area
Festucalex gibbsi Gibbs' Pipefish [66215]		Species or species habitat may occur within area	In feature area
Halicampus dunckeri Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area	In feature area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Halicampus macrorhynchus Whiskered Pipefish, Ornate Pipefish [66222]		Species or species habitat may occur within area	In feature area
Halicampus matafaae Samoan Pipefish [66223]		Species or species habitat may occur within area	In feature area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area	In feature area
Halicampus spirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In feature area
Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area	In feature area
Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area	In feature area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In feature area
Hippichthys spicifer Belly-barred Pipefish, Banded Freshwater Pipefish [66232]		Species or species habitat may occur within area	In feature area
Hippocampus bargibanti Pygmy Seahorse [66721]		Species or species habitat may occur within area	In feature area
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In feature area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area	In feature area
Hippocampus zebra Zebra Seahorse [66241]		Species or species habitat may occur within area	In feature area
Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253]		Species or species habitat may occur within area	In feature area
Micrognathus brevirostris thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area	In feature area
Microphis brachyurus Short-tail Pipefish, Short-tailed River Pipefish [66257]		Species or species habitat may occur within area	In feature area
Nannocampus pictus Painted Pipefish, Reef Pipefish [66263]		Species or species habitat may occur within area	In feature area
Phoxocampus diacanthus Pale-blotched Pipefish, Spined Pipefish [66266]		Species or species habitat may occur within area	In feature area
Siokunichthys breviceps Softcoral Pipefish, Soft-coral Pipefish [66270]		Species or species habitat may occur within area	In feature area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In feature area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In feature area
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In feature area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In feature area
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In feature area
Mammal			
Dugong dugon Dugong [28]		Species or species habitat known to occur within area	In feature area
Reptile			
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area	In feature area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area	In feature area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area	In feature area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area	In feature area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area	In feature area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chitulia ornata as Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [87377]		Species or species habitat may occur within area	In feature area
Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnstone's Crocodile [1773]		Species or species habitat may occur within area	In buffer area only
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area	In feature area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area	In feature area
Enhydrina schistosa Beaked Seasnake [1126]		Species or species habitat may occur within area	In feature area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area	In feature area
Hydrophis macdowelli as Hydrophis mcdowelli Small-headed Seasnake [75601]		Species or species habitat may occur within area	In feature area
Lapemis curtus as Lapemis hardwickii Spine-bellied Seasnake [83554]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Laticauda colubrina a sea krait [1092]		Species or species habitat may occur within area	In feature area
Laticauda laticaudata a sea krait [1093]		Species or species habitat may occur within area	In feature area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In feature area

Whales and Other Cetaceans [[Resource Information](#)]

Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area	In feature area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In feature area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area	In feature area
Orcaella heinsohni as Orcaella brevirostris Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area	In feature area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Foraging, feeding or related behaviour known to occur within area	In feature area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In feature area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Eastern Kuku Yalanji	Indigenous Protected Area	QLD	In buffer area only
Eastern Kuku Yalanji	Indigenous Protected Area	QLD	In buffer area only
Edward Said	Nature Refuge	QLD	In buffer area only
Great Barrier Reef Coast	Marine Park	QLD	In feature area
Macalister Range	National Park	QLD	In buffer area only
Mount Lewis	National Park	QLD	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Mowbray	National Park	QLD	In buffer area only
Mowbray	Conservation Park	QLD	In buffer area only

Nationally Important Wetlands [\[Resource Information \]](#)

Wetland Name	State	Buffer Status
Great Barrier Reef Marine Park	QLD	In feature area

EPBC Act Referrals [\[Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
-------------------	-----------	------------------	-------------------	---------------

Controlled action

Wangetti Trail North Section South of Mowbray River to Wangetti	2020/8723	Controlled Action	Assessment Approach	In buffer area only
---	-----------	-------------------	---------------------	---------------------

Not controlled action

Demolition Works - Stage 1 Port Douglas Master Plan	2012/6349	Not Controlled Action	Completed	In buffer area only
---	-----------	-----------------------	-----------	---------------------

Increased Tablelands cane haulage road transport to Mossman Mill, Far North Queensland	2013/7037	Not Controlled Action	Completed	In buffer area only
--	-----------	-----------------------	-----------	---------------------

Mossman Wastewater Treatment Plant Upgrade, QLD	2012/6570	Not Controlled Action	Completed	In buffer area only
---	-----------	-----------------------	-----------	---------------------

Port Street Marina and Associated Facilities, Dickson Inlet	2004/1536	Not Controlled Action	Completed	In feature area
---	-----------	-----------------------	-----------	-----------------

Residential Development Adjacent to Mowbray River	2005/2041	Not Controlled Action	Completed	In buffer area only
---	-----------	-----------------------	-----------	---------------------

Not controlled action (particular manner)

Relocation of a Spectacled Flying-fox colony	2003/1013	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
--	-----------	---	---------------	---------------------

Relocation of Spectacled Flying Foxes from Bale Resort	2008/4288	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
--	-----------	---	---------------	---------------------

Relocation of Spectacled Flying-foxes from residential area	2007/3473	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
---	-----------	---	---------------	---------------------

Referral decision

Mossman Waste Water Treatment Plant Upgrade, QLD	2012/6429	Referral Decision	Completed	In buffer area only
--	-----------	-------------------	-----------	---------------------

Biologically Important Areas

Scientific Name	Behaviour	Presence	Buffer Status
Dolphins			
Sousa chinensis Indo-Pacific Humpback Dolphin [50]	Foraging	Known to occur	In feature area
Tursiops aduncus Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Breeding	Likely to occur	In feature area
Seabirds			
Sterna sumatrana Black-naped Tern [800]	Breeding	Known to occur	In feature area
Whales			
Megaptera novaeangliae Humpback Whale [38]	Breeding and calving	Known to occur	In feature area

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and 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

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

Where little information is available for a 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 detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

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.

[© Commonwealth of Australia](#)

Department of Agriculture Water and the Environment

GPO Box 858

Canberra City ACT 2601 Australia

+61 2 6274 1111



Queensland Government

WildNet species list

Search Criteria: Species List for a Specified Point
Species: All
Type: Native
Queensland status: Rare and threatened species
Records: Confirmed
Date: Since 1980
Latitude: -16.4914
Longitude: 145.4604
Distance: 10
Email: sarahholt@biotropica.com.au
Date submitted: Tuesday 04 Jan 2022 12:18:37
Date extracted: Tuesday 04 Jan 2022 12:20:05

The number of records retrieved = 22

Disclaimer

Information presented on this product is distributed by the Queensland Government as an information source only. While every care is taken to ensure the accuracy of this data, the State of Queensland makes no statements, representations or warranties about the accuracy, reliability, completeness or suitability of any information contained in this product.

The State of Queensland disclaims all responsibility for information contained in this product and all liability (including liability in negligence) for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

Information about your Species lists request is logged for quality assurance, user support and product enhancement purposes only.

The information provided should be appropriately acknowledged as being derived from WildNet database when it is used. As the WildNet Program is still in a process of collating and vetting data, it is possible the information given is not complete. Go to the WildNet database webpage (<https://www.qld.gov.au/environment/plants-animals/species-information/wildnet>) to find out more about WildNet and where to access other WildNet information products approved for publication. Feedback about WildNet species lists should be emailed to wildlife.online@des.qld.gov.au.

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	amphibians	Hylidae	<i>Litoria rheocola</i>	common mistfrog		E		2
animals	birds	Burhinidae	<i>Esacus magnirostris</i>	beach stone-curlew		V		5
animals	birds	Charadriidae	<i>Charadrius leschenaultii</i>	greater sand plover		V	V	1
animals	birds	Charadriidae	<i>Charadrius mongolus</i>	lesser sand plover		E	E	1
animals	birds	Psittacidae	<i>Cyclopsitta diophthalma macleayana</i>	Macleay's fig-parrot		V		1
animals	birds	Scolopacidae	<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit		V	V	2
animals	birds	Scolopacidae	<i>Numenius madagascariensis</i>	eastern curlew		E	CE	1
animals	mammals	Dasyuridae	<i>Dasyurus maculatus gracilis</i>	spotted-tailed quoll (northern subspecies)		E	E	1/1
animals	mammals	Delphinidae	<i>Orcaella heinsohni</i>	Australian snubfin dolphin		V		1
animals	mammals	Pteropodidae	<i>Pteropus conspicillatus</i>	spectacled flying-fox		E	E	3
animals	reptiles	Crocodylidae	<i>Crocodylus porosus</i>	estuarine crocodile		V		8
plants	land plants	Annonaceae	<i>Meiogyne hirsuta</i>			NT		1/1
plants	land plants	Annonaceae	<i>Polyalthia submontana subsp. submontana</i>			NT		2/2
plants	land plants	Elaeocarpaceae	<i>Peripentadenia phelpsii</i>			V		1/1
plants	land plants	Leguminosae	<i>Cynometra roseiflora</i>			CR		1/1
plants	land plants	Leguminosae	<i>Dioclea hexandra</i>			V		5/5
plants	land plants	Picrodendraceae	<i>Sankowskya stipularis</i>			E	E	14/14
plants	land plants	Picrodendraceae	<i>Whyanbeelia terrae-reginae</i>			NT		5/5
plants	land plants	Polygalaceae	<i>Xanthophyllum fragrans</i>			NT		3/3
plants	land plants	Rubiaceae	<i>Randia audasii</i>			NT		4/4
plants	land plants	Sapindaceae	<i>Toechima pterocarpum</i>	orange tamarind		E	E	5/5
plants	land plants	Symplocaceae	<i>Symplocos crassiramifera</i>			V		4/4

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*.

The codes are Extinct (EX), Extinct in the Wild (PE), Critically Endangered (CR), Endangered (E), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern (C).

A - Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999*.

The values of EPBC are Extinct (EX), Extinct in the Wild (XW), Critically Endangered (CE), Endangered (E), Vulnerable (V) and Conservation Dependent (CD).

Records - The first number indicates the total number of records of the taxon (wildlife records and species listings for selected areas).

This number is output as 99999 if it equals or exceeds this value. A second number located after a / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.