Lot 1 DP 818394 Clothiers Creek Road, Clothiers Creek

Ecological Constraints Assessment

Client Prepared by Project # Date

: Scott Pearson : Australian Wetlands Consulting Pty Ltd : 1-241929 : July 2024

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Lot 1 DP 818394 Clothiers Creek Road, Clothiers Creek

Ecological Constraints Assessment

Project control

| Project name: | Lot 1 DP 818394 Clothiers Creek Road, Clothiers Creek Ecological Constraints Assessment |
|---------------|---|
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Key Terms, Definitions and Purpose

| Key Term | Acronym | Definition/Purpose |
|---|---------|--|
| Above Sea Level | ASL | Height above mean sea level is a measure of the vertical distance of a location in reference to a historic mean sea level. |
| Biodiversity Assessment Methodology | BAM | The BAM is a scientific document that provides: How the proponent proposes to avoid and minimise impacts Any potential impact that could be characterised as serious and irreversible according to specified principles and The offset obligation required to offset the likely biodiversity impacts of the proposed development, activity, clearing or biodiversity certification expressed in biodiversity credits. * The BAM must be applied by an accredited assessor. |
| <i>Biodiversity Conservation Act 2016</i> | BC Act | To maintain a healthy, productive and resilient environment for the greatest well-being of the community, now and into the future, consistent with the principles of ecologically sustainable development. |
| <i>Biodiversity Development Assessment Report</i> | BDAR | An assessment and report that is consistent with the BAM. |
| Biodiversity Offsets Scheme | BOS | Triggered by developments, projects and activities that meet certain thresholds for significant impacts on biodiversity, significantly impact threatened species or on an opt-in basis. |
| Biosecurity Act 2015 | Bio Act | To provide a framework for the prevention, elimination and minimisation of biosecurity risks posed by biosecurity matter, dealing with biosecurity matter, carriers and potential carriers, and other activities that involve biosecurity matter, carriers or potential carriers. |
| Development Control Plan | DCP | Provides detailed planning and design guidelines to support the planning controls in an environmental planning instrument (LEP or SEPP). |
| Ecological Constraints Assessment | ECA | An Ecological Constraints Assessment is conducted as a preliminary assessment prior to the submission of a development application to inform the proponent of ecologically constraining factors of the site and any |



| Key Term | Acronym | Definition/Purpose |
|--|----------|--|
| | | subsequent ecological assessments required to facilitate the DA. |
| <i>Environmental Planning & Assessment Act 1999</i> | EP&A Act | To facilitate ecologically sustainable development by integrating relevant economic, environmental and social considerations in decision-making about environmental planning and assessment, to protect the environment, including the conservation of threatened and other species of native animals and plants, ecological communities and their habitats. |
| <i>Environment</i> <i>Protection and</i> <i>Biodiversity</i> <i>Conservation Act</i> <i>1999</i> | EPBC Act | The EPBC Act refers to the living things (including plants and animals), habitats and places that need protecting as 'matters of national environmental significance'. |
| Hectares | ha | - |
| Hollow Bearing Tree | HBT | A hollow bearing tree that provides breeding and sheltering habitat for a range of protected and threated fauna species. |
| Habitat Tree | ΗT | A tree that provides suitable foraging, roosting, sheltering and breeding habitat for protected and threated fauna species. Features include decorticating bark, cavities, fruiting and flowering parts or dense vegetation suitable for possum dreys. |
| Local Environmental Plans | LEP | Provides a framework that guides planning decisions for local government areas through zoning and development controls. |
| Meters squared | m² | - |
| Microhabitat | МН | Small scale habitat features such as logs, soaks, and leaf litter. |
| NSW Environmental Protection Authority | EPA | The NSW Environment Protection Authority (EPA) is the primary environmental regulator for NSW. The EPA partners with business, government and the community to reduce pollution and waste, protect human health, and prevent degradation of the environment. |
| NSW State Vegetation Mapping | STVM | Maps the distribution of each Plant Community Type, Vegetation Class and Vegetation Formation, across all tenures in NSW. |
| Plant Community Type | РСТ | PCT – The finest level in the NSW vegetation classification hierarchy. |
| Subject Site | N/A | Subject site means the area directly affected by the proposal. The subject site includes the footprint of the development and any ancillary works, facilities, accesses or hazard reduction zones that support the construction or operation of the development or activity (|
| State Environmental Planning Policy | SEPP | State and local planning legislation and policies set the rules that control what development can occur on your land. |
| Study Area | N/A | The Study Area means the subject site and any additional areas which are likely to be affected by the proposal, either |



| Key Term | Acronym | Definition/Purpose |
|------------|---------|--|
| | | directly or indirectly. The study area should extend as far as |
| | | is necessary to take all potential impacts into account. |
| Threatened | | TEC – A threatened ecological community is a naturally |
| Ecological | TEC | occurring group of native plants, animals and other |
| Community | | organisms living in a unique habitat. |



Executive Summary

Australian Wetlands Consulting (AWC) have prepared this Ecological Constraints Assessment (ECA) to detail ecological constraints at Lot 1 DP 818394 Clothiers Creek Rd, Clothiers Creek. This ECA has been informed from preliminary constraints assessment and dwelling placement by Newton Denny Chappelle (2024).

The site is predominantly regenerating eucalypt forest and is bordered on three side by Cudgen Nature Reserve. The site has been used historically for agricultural purposes including cattle grazing, as evidenced by the remaining degraded infrastructure. Most recently horse agistment has ceased 18 months ago with strong midstory species regeneration since and is currently still used for beekeeping and for camping by the current owners. Much of the site is captured in the NSW Biodiversity Values (BV) mapping due it's high environmental value. The site is defined as core Koala habitat under the *Tweed Coast Comprehensive Koala Plan of Management 2020* (TCCKPoM) and contains a high number of large hollow bearing trees. One threatened flora species, Rainforest Cassia, was identified at the site but not in the development footprint and the BioNet database contains additional threatened fauna records. Additionally, much of the site is mapped as a regional wildlife corridor ('Cudgen link'), although a portion of this is cleared exotic grassland. One unnamed ephemeral first order stream exists at the site, with an existing access track crossing it in an east-west orientation.

The proponent will be required to demonstrate avoidance and minimisation principles through development design. In order to avoid a Biodiversity Development Assessment Report (BDAR) and entry into the Biodiversity Offsets Scheme careful consideration of the house site and asset protection zone (APZ) placement outside of BV mapped area, and avoidance of clearing habitat will be required.

Recommendations:

The dwelling in it's current location, or slightly west, will provide the least impacts to the numerous biodiversity values of the site. Preliminary consultation with Council is recommended to determine requirements for minor variations in ecological setbacks regarding the placement of the dwelling in a cleared area of a mapped wildlife corridor, and possible minor variations regarding the buffer of the 1st order stream.

On the basis that the development will take place outside of the BV mapped area, a Flora and Fauna Assessment should be prepared to assess the ecological values of the site and ensure the principle of avoidance and minimisation of biodiversity impacts is demonstrated.



1 Introduction and Site Description

Australian Wetlands Consulting (AWC) has been engaged by Scott Pearson to prepare this Ecological Constraints Assessment (ECA) for his property at Lot 1 DP 818394 Clothiers Creek Road, Clothiers Creek. The ECA facilitates the strategic merit assessment required by Tweed Shire Council ('Council') to support the planning proposal submitted by the proponent to Council. The planning proposal must demonstrate consistency with Objective three of the *North Coast Regional Plan 2041* (NRCP) which states:

"Strategic planning and local plans must consider opportunities to protect biodiversity values by:

- Focusing land-use intensification away from HEV assets and implementing the 'avoid and minimise and offset' hierarchy in strategic plans, LEPs and planning proposals...
- Identifying HEV assets within the area at planning proposal stage through site investigations"

1.1 Site Description

The site is located at Lot 1 DP 818394 Clothiers Creek Road, Clothiers Creek within the Tweed Shire Council Loval Government Area (LGA). The site currently consists of an undeveloped 6.1 hectare (ha) block of land which is predominantly native vegetation with a small cleared area. The site currently zoned as DM- Deferred Matter as it adjoins land zoned as C1- National Parks and Nature Reserves. Part of the site is mapped as high environmental value (HEV) on the NSW Biodiversity Values (BV) map.

1.2 Previous Land Use and Surrounding Land Use

The site has been subject to historical disturbance and as such the vegetation occurring on site is a result of regeneration. Most recently, the site has been used for bee keeping and until 18 months ago, the site was also used for horse agistment. Other features on the site include a dam and degraded agricultural infrastructure, documenting the sites previous use as cattle grazing land. The site borders Cudgen Nature Reserve to the west and is located approximately 1 km to the coastline.

Planning details for the site as determined by NSW Planning Portal Spatial Viewer (DCS 2020) are detailed in Table 1.1 and displayed in Figure 1.1.

| Site Detail | NSW Planning Portal Detail |
|------------------------------|----------------------------|
| Lot and DP | Lot 1 DP 818394 |
| Property size (ha) | 6.1 |
| Zoning | DM |
| LGA | Tweed Shire Council |
| Bushfire Vegetation Category | 1&3 |

Table 1.1 NSW planning portal details



1.3 Proposed Development

The proposed development consists of the construction of a residential dwelling (refer Appendix A – Proposed Development and Figure 1.2).

1.4 Biodiversity Offsets Scheme

Much of the site contains BV mapped land. The BV mapped land relates to *land in the opinion of the Environment Agency Head that is of sufficient biodiversity value to be included under the BV mapping.* The current proposed house site is not situated within BV mapped land, if works were to take place in this area then a Biodiversity Development Assessment Report (BDAR) would be required. BV mapped land at the site is shown in Figure 1.3.

The proposal would involve the clearing of vegetation in the building envelope and related to APZs. The *Biodiversity Conservation Regulation 2017* details area clearing thresholds associated with a minimum lot size, to which the Biodiversity Offsets Scheme (BOS) applies. The area clearing thresholds are outlined in Table 1.2. If the proposed development exceeds the clearing thresholds for the identified lot size of 6 ha, the BOS will be triggered, and a BDAR required.

| Minimum lot size associated with the property | Threshold for clearing, above which the Biodiversity Assessment Method (BAM) and offsets scheme apply |
|---|--|
| Less than 1 ha | 0.25 ha or more |
| 1 ha to less than 40 ha | 0.5 ha or more |
| 40 ha to less than 1000 ha | 1 ha or more |
| 1,000 ha or more | 2 ha or more |

Table 1.2 Area clearing thresholds.





Legend Subject site

Figure: 1.1 Subject site

Project: Clothiers Creek Road







Subject site
Proposed dwelling site

Figure: 1.2 Proposed dwelling site

Project: Clothiers Creek Road





Legend

Subject site

Proposed dwelling site

Biodiversity Values mapping

Figure: 1.3 Biodiversity Values mapping Project: Clothiers Creek Road



2 Statutory Context

2.1 Commonwealth Legislation

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) protects/ regulates matters of national environmental significance (MNES), including:

- World heritage properties
- National heritage places
- Wetlands of international importance
- Nationally threatened species and ecological communities
- Migratory species
- Commonwealth marine areas
- The Great Barrier Reef Marine Park
- Nuclear actions (including uranium mining)
- A water resource, in relation to coal seam gas development and large coal mining development.

Under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) a referral is required to the Minister for the Environment and Water for proposed 'actions that have the potential to significantly impact on matters of national environmental significance [MNES] or the environment of Commonwealth land'. A database search encompassing a 5 km radius search area from the Activity has been completed to identify MNES and other matters.

2.2 State Legislation

The NSW legislation relevant to the proposed development is outlined in Table 2.1.

| Legislation | Section/s | Proponent's Obligations |
|---|----------------------------------|---|
| <i>Biosecurity Act 2015 & Biosecurity Regulation 2017</i> | Part 3 Schedule 3 | The Biosecurity Act provides a framework for the prevention, elimination and minimisation of biosecurity risks. Any future development must consider priority weed species on site and must be controlled appropriately in order to reduce any increased biosecurity risk as a result of the development. |
| BC Act 2016 | Part 7 and Schedules 1 & 2 | Any proposed development must be avoid significantly impacting any threatened flora and fauna species or ecological communities listed in schedule 1 and 2 of the BC Act. |
| <i>Coastal Management Act 2016</i> | Part 2 | The proposed development proposal will not occur within the coastal wetlands proximity area or land mapped as littoral rainforest as identified by <i>the State Environmental Planning Policy (SEPP) Resilience and Hazards 2021.</i> |

Table 2.1 NSW state legislation sections relative to the proposed development



| Legislation | Section/s | Proponent's Obligations |
|---------------|-------------------|--|
| EP&A Act 1979 | Part 4, Part 5 | Any proposed development requires development assessment and consent pursuant to part 4 of the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) whereby determining authorities, when assessing activities under Part 4, must examine and take into account to the fullest extent possible all matters affecting or likely to affect the environment by reason of that activity. |



2.3 State Environmental Planning Policies

The State Environmental Planning Policies (SEPPs) relevant to the proposal are outlined in Table 2.2.

| State Environmental Planning Policy (SEPP) | Section/s | Proponent's Obligations |
|---|--|---|
| <i>Biodiversity and</i> <i>Conservation 2021</i> | Chapter 2 and/or 3 Chapter 3 and Chapter 4 | The <i>Tweed Coast Comprehensive Koala Plan of Management 2020</i> applies to this land, SEPP B&C does not apply. |

Table 2.2 State Environmental Planning Policies



2.4 Tweed Shire Council Development Control Plan 2008

2.4.1 Chapter A19 Biodiversity

The aims of Chapter A19 Biodiversity of the Tweed Shire Council Development Control Plan (DCP) is to ensure that the planning and design of new development maintains or improves ecological values within Tweed Shire and increase the resilience of natural areas within the LGA to support both biodiversity and climate adaptation.

2.4.2 Development Envelope Controls

The development envelope controls relevant to the proposal are outlined in Table 2.3. Development envelope control objectives for the Tweed DCP are outlined in Table 2.3 and red flagged areas with associated setbacks are provided in Table 2.4.

Table 2.3 Development envelope control objectives

| Objective |
|--|
| Specify the biodiversity elements that the development must avoid (red flags) |
| Specify any setbacks, buffers or other measures required to minimise the ongoing impacts of the development on biodiversity values |
| Specify "avoid or minimise" measures that may be either included in a Biodiversity Development Assessment Report (BDAR) or additional to those matters considered in a BDAR prepared in accordance with the BC Act |
| Specify how red flagged areas and associated ecological setbacks are to be protected and managed |
| Provide for minor variations to red flagged areas that maintains or improves biodiversity outcomes |
| Provide additional flexibility where improved biodiversity outcomes are assured |

Table 2.4 Red flagged areas and ecological setbacks

| Red Flag | Ecological Setback (m) |
|---|------------------------|
| Land within a defined wildlife corridor | 20 |
| Listed ecological community | 30 |
| Pre-existing protected habitat | 20 |
| Very large native trees | 10 |
| Stags and hollow-bearing trees | 10 |
| Core Koala habitat* | 20 |
| First order stream | 10 |

*Set back defined in section A19 applies to land which does not come under the Tweed Coast KPoM, setback application here is a guideline only.

2.4.2.1 Minor Variations for Red Flagged Areas

Minor variations to ecological setbacks may be considered by Council in order to achieve practical outcomes for the proposed development. Minor variations relevant in part to the proposed development will consist of:

• Minor incursions to ecological setbacks



- Areas in low condition with an area less than 5000m²
- Bushland dominated by exotic species

2.5 Tweed Coast Comprehensive Koala Plan of Management 2020

The site is identified as core Koala habitat under the *Tweed Coast Comprehensive Koala Plan of Management 2020* (KPoM). The KPoM aims to recover the Tweed Coast Koala population, increase the area of preferred habitat and ensure that future development on the Tweed Coast involves the management of Koala habitat to ensure free movement over their present range and reverse the Koala population decline.

The site is defined as core Koala habitat under the KPoM, as it is mapped preferred (Secondary Class A) Koala habitat in the Southern Koala Activity Precinct.



3 Methods

3.1 Desktop Assessment

A desktop study was completed prior to field assessment to gather relevant information and data. The following databases and Geographic Information System (GIS) layers were searched/analysed:

- BioNet Atlas (DPIE 2024a): 10 km x 10 km grid centered on the site and records (completed [03/07/2024])
- Biodiversity Values Map and Threshold Tool and digital data layer (DPIE 2022)
- NSW Planning Portal Spatial Viewer (DCS 2020a) with consideration to the relevant SEPPs
 Biodiversity Conservation 2021
- Protected Matters Search Tool (Department of Climate Change, Energy, the Environment and Water (DCCEEW 2024): 5km radius of the site (completed [02/07/2024])
- NSW State Vegetation Mapping (extant) (DPIE 2024c)
- Sharing and Enabling Environmental Data in NSW (SEED Portal) (DPIE 2024d)
- Spatial Collaboration Portal (DCS 2020b)



3.1.1 Existing Environment

The existing environment consists of the physical and biological features of the site and the broader study area. The context of the existing environment has been determined from the results of the desktop assessments outlined above. The results of the site assessment will 'ground truth' these physical and environmental features and must be considered in relation to the impact of the proposal.

3.1.1.1 Soil Landscape

Most of the site is mapped as 'Mount Warning Exhumed Slopes' and the rest of the site is mapped as 'Byron-Tweed Alluvial Plains' (refer Figure 3.1). The NSW 'Mitchell' landscape (Mitchell, 2002) description of this soil landscape is outlined in Table 3.1.

| Soil Landscape Name | Topography and Soil | Elevation | Vegetation |
|-------------------------------------|--|-----------|---|
| Byron-Tweed Alluvial Plains- Btp | Channels, floodplain, terraces and estuary of the Tweed River and other coastal streams on Quaternary alluvium, local relief 15m. Uniform brown earths and structured brown clays on floodplains. Brown texture-contrast soil with high organic content on terrace remnants. | 0–50m | Most of the valley is cleared but contained subtropical closed forest with; White Booyong (<i>Argyrodendron trifoliolatum</i>), Red Cedar (<i>Toona australis</i>), and retains many rare species such as Heart-leaved Bosistoa (<i>Bosistoa selwynil</i>), Velvet Laurel (<i>Endiandra hayesil</i>), Red-fruited Ebony (<i>Diospyros mabacea</i>) and Southern Fontainea (<i>Fontainea australis</i>). Dry coastal hardwood forest on the terraces and slopes including; Cabbage Gum (<i>Eucalyptus amplifolia</i>), Forest Red Gum (<i>Eucalyptus tereticornis</i>), Broad-leaved Apple (<i>Angophora subvelutina</i>), River Oak (<i>Casuarina cunninghamiana</i>), Silky Oak (<i>Grevillea robusta</i>), Rough-barked Apple (<i>Angophora floribunda</i>), Teak (<i>Flindersia australis</i>), Coastal Grey Box (<i>Eucalyptus bosistoana</i>), Pink Bloodwood (<i>Corymbia intermedia</i>), Spotted Gum (<i>Corymbia maculata</i>), Grey Ironbark (<i>Eucalyptus paniculata</i>), Broad-leaved Paperbark (<i>Melaleuca quinquenervia</i>), Blackwood (<i>Acacia melanoxylon</i>) and Black She-oak (<i>Casuarina litoralis</i>). |

Table 3.1 Soil landscape characteristics



| Soil Landscape Name | Topography and Soil | Elevation | Vegetation |
|--------------------------------------|---|-----------|---|
| Mount Warning Exhumed Slopes- Mwe | Moderately steep hills and ridges with central drainage to the Tweed River formed on the slopes of a pre-Tertiary landscape exposed by erosion of the Lamington volcanics. Silurian Devonian greywacke, slate, phyllite and quartzite, Triassic rhyolite, tuff and claystone and Jurassic shale sandstone and coal. Shallow structured and friable red and brown loam and clay loam gradational profiles. | | Subtropical and closed forest of; White Booyong (<i>Argyrodendron trifoliolatum</i>), Teak (<i>Flindersia australis</i>), Pigeonberry Ash (<i>Cryptocarya erythroxylon</i>), Ball Nut (<i>Floydia praealta</i>), Ferny-leaf Bosistoa (<i>Bosistoa pentacocca</i>), Union Nut (<i>Bouchardatia neurococca</i>), Doughwood (<i>Melicope octandra</i>), Crow's Ash (<i>Pentaceras australis</i>), Red Lilly Pilly (<i>Syzygium hodgkinsoniae</i>) and numerous vines. Marginal areas of; Tallow wood (<i>Eucalyptus microcorys</i>), Sydney Blue Gum (<i>Eucalyptus saligna</i>), Red Bloodwood (<i>Corymbia gummifera</i>), Turpentine (<i>Syncarpia glomulifera</i>), Brush Box (<i>Lophostemon confertus</i>) and Blackwood (<i>Acacia melanoxylon</i>). |

3.1.1.2 Previously Mapped Plant Community Types

The three previously mapped Plant Community Types (PCTs) and associated TECs (if applicable) identified by the NSW State Vegetation Mapping (extant) (DPIE 2023c) are described in Table 3.2 and displayed in Figure 3.2.

Table 3.2 Previously Mapped PCTs

| PCT Name | Description | BC Act listed TEC | EPBC Act listed TEC |
|-------------------------------|---|-------------------|---------------------|
| 3232- Far North Coastal Hills | A very tall to extremely tall, sclerophyll open forest with variable sub-canopy layers of mixed | - | - |
| Blackbutt-Ironbark Forest | small trees, shrubs and grasses, which occurs on low coastal hills on metasediments, north | | |
| | from Wardell, north coast. | | |
| | The tree canopy very frequently includes one or all of the species Blackbutt (Eucalyptus | | |
| | pilularis), which often has the highest cover, Grey Ironbark (Eucalyptus siderophloia) and | | |
| | Pink Bloodwood (Corymbia intermedia). Brush Box (Lophostemon confertus) is also | | |
| | common, usually with a low foliage cover. Small trees Heath Tree (Trochocarpa laurina) and | | |
| | Sweet Pittosporum (Pittosporum undulatum) are common in infrequently burnt areas and | | |



| PCT Name | Description | BC Act listed TEC | EPBC Act listed TEC |
|---------------------------|---|-------------------|---------------------|
| | may have a high cover, while Red Ash (Alphitonia excelsa), Forest Oak (Allocasuarina | | |
| | torulosa) and Foambark (Jagera pseudorhus), with Bottlebrush Grass Tree (Xanthorrhoea | | |
| | <i>macronema</i>), occasionally occur, usually with low abundance. | | |
| | The ground layer very frequently includes the grasses Blady Grass (<i>Imperata cylindrica</i>) and | | |
| | (Ottochloa gracillima), almost always with the vine Sarsaparilla (Smilax australis). This PCT | | |
| | occurs mainly in very warm, very wet locations receiving 1560-1880 mm mean annual | | |
| | rainfall, at low elevations of up to 140 metres, rarely to 170 metres asl. It has a disjunct | | |
| | distribution, with occurrences north from Brunswick Heads separated from those around | | |
| | Wardell by the extensive intervening area of Lismore basalt. This PCT is often disturbed, with | | |
| | a high component of exotic species. | | |
| 3252- Northern Hinterland | Very tall to extremely tall, grassy or rarely shrub-grass sclerophyll open forest, which is | - | - |
| Grey Gum-Mahogany Grassy | widespread in the coastal hills and escarpment foothills and ranges north from Bulahdelah. | | |
| Forest | The canopy very frequently includes Grey Gum (<i>Eucalyptus propinqua</i>) and/or commonly, | | |
| | Eastern Grey Ironbark (<i>Eucalyptus siderophloia</i>) and usually one of these species is present | | |
| | and locally dominant, having the highest foliage cover. Other canopy species commonly | | |
| | include Broad-leafed White Mahogany (<i>Eucalyptus carnea</i>) and Tallowwood (<i>Eucalyptus</i> | | |
| | <i>microcorys</i>), occasionally with Pink Bloodwood (<i>Corymbia intermedia</i>), Turpentine | | |
| | (<i>Syncarpia glomulifera</i>) and Spotted Gum (<i>Corymbia maculata</i>). | | |
| | Forest Oak (<i>Allocasuarina torulosa</i>) is almost always present and commonly forms a sparse | | |
| | to mid-dense sub-canopy. The mid-stratum is comprised of scattered shrubs and vines and | | |
| | there is usually a mid-dense to dense ground stratum of grasses, graminoids and forbs. | | |
| | There is no shrub species which is consistently present. The most frequent shrub species | | |
| | are Coffee Bush (<i>Breynia oblongifolia</i>) and Rice Flower (<i>Ozothamnus diosmifolius</i>), however | | |
| | each occurs only occasionally. Vines which commonly occur in either the ground stratum or | | |
| | mid-stratum include Purple Coral Pea (<i>Hardenbergia violacea</i>), Guinnea Flower (<i>Hibbertia</i> | | |
| | <i>scandens</i>) and Dusky Coral Pea (<i>Kennedia rubicunda</i>), however these very rarely have high | | |
| | cover. | | |
| | Very frequent ground cover species include Kangaroo Grass (<i>Themeda triandra</i>) or Blady | | |
| | Grass (Imperata cylindrica), both of which may be locally abundant, and Blue Flaxlily | | |

| PCT Name | Description | BC Act listed TEC | EPBC Act listed TEC |
|----------------------------|---|----------------------|-----------------------|
| | (<i>Dianella caerulea</i>) and Matt Rush (<i>Lomandra longifolia</i>), each of which rarely has high cover. | | |
| | The grass Wiry Panic (<i>Entolasia stricta</i>) occurs commonly however usually with low cover. | | |
| | This PCT occurs mainly in warm, wet locations receiving 1170-1660 mm mean annual | | |
| | rainfall, at low to mid-elevations of 60-460 metres asl. It occurs on clay-rich sedimentary or | | |
| | meta-sedimentary substrates, on upper slope or ridge sites which are burnt at relatively high | | |
| | frequency. This PCT forms an intergrading mosaic with a range of other grassy forests to | | |
| | which it is floristically related. | | |
| 4004- Northern Melaleuca | A tall to very tall, or rarely low to mid-high, mid-dense to dense forest of Broad-leafed | Swamp Sclerophyll on | Coastal Swamp |
| quinquenervia Swamp Forest | Paperbark (<i>Melaleuca quinquenervia</i>), occasionally with eucalypts, which occurs in coastal | Floodplains of the | Sclerophyll Forest of |
| | lowland swamps on seasonally inundated alluvium or in drainage depressions. | New South Wales | New South Wales and |
| | The canopy almost always includes Melaleuca quinquenervia, commonly with Swamp Oak | North Coast, Sydney | South East Queensland |
| | (Casuarina glauca) which sometimes has a high foliage cover. Eucalypts are occasionally | Basin and South East | (Endangered) |
| | present as part of the canopy or as emergents, by far the most frequent species being Swamp | Corner Bioregions | |
| | Mahogany (<i>Eucalyptus robusta</i>). | (Endangered) | |
| | The vine Common Silk Pod (Parsonsia straminea) is commonly present in the canopy | | |
| | however rarely with high cover. There is a mid-dense to dense ground layer of ferns, sedges | | |
| | and grasses that very frequently includes Swamp Water Fern (Telmatoblechnum indicum), | | |
| | commonly Sword-sedge (Gahnia clarkei) and Joined Twig-sedge (Machaerina articulata), | | |
| | occasionally with Soft Twig-rush (<i>Machaerina rubiginosa</i>) and Common Reed (<i>Phragmites</i> | | |
| | australis), the latter forming dense stands in local depressions which are inundated for a | | |
| | longer duration. This PCT has a wide latitudinal range and occupies a range of warm, mostly | | |
| | wet climates at locations receiving 1070-1570 mm mean annual rainfall at low elevations of | | |
| | up to 10 metres asl within 20 km of the coast. | | |



3.1.1.3 Fauna Corridors and Connectivity

The NSW SEED portal has identified the 'Cudgen Link' regional corridor across much of the site (refer Figure 3.1). Cudgen Nature Reserve (NR) directly adjoins the property on three sides. These corridors are highly likely to provide connectivity across the landscape for a diverse range of threatened fauna species.

3.1.1.4 Waterways and Waterbodies

One unnamed 1st order stream and a dam are mapped across the site (refer Figure 3.1).









Figure: 3.2 Previously mapped PCTs Project: Clothiers Creek Road



3.1.2 BioNet Atlas and Protected Matters Search Tool

3.1.2.1 BioNet Results

BioNet returned confirmed records of 48 threatened flora and 60 threatened fauna species within the search area, including several species listed in the EPBC Act (refer Appendix B – BioNet and PMST Results). Habitat for a number of threatened ecological communities (of which several are listed in the EPBC Act) may occur within the locality.

3.1.2.2 Protected Matters Search Tool

Protected Matters Search Tool (PMST) identified records of 33 threatened flora species, 74 threatened fauna six threatened ecological communities. The results also identified the 60 migratory species within the search area (refer Appendix B – BioNet and PMST Results).

Listings for threatened species under the BC Act and EPBC Act are as follows:

- Vulnerable V
- Endangered -E
- Critically Endangered -CE

Bilateral agreements for migratory birds are as follows:

- Japan-Australia Migratory Bird Agreement (JAMBA) J
- China-Australia Migratory Bird Agreement (CAMBA) and C
- Republic of Korea-Australia Migratory Bird Agreement (ROKAMBA) K



4 Field Assessment

Field assessment was completed on July 5th 2024 by ecologist Léandra Martiniello and consisted of the following:

- Identification of vegetation dominated by native species.
- Identification of threatened flora and fauna survey and assessments of suitable habitat on site.
- Opportunistic fauna survey based direct observations i.e. visual and aural and indirect observations i.e., scats and tracks
- Identification of fauna habitat including but not limited to hollow bearing trees, nests, decorticating bark.
- Ground truthing of existing environmental features such as watercourses and fauna corridors
- Determining of ecological constraints and Red Flags relating to the proposed development

Weather conditions during the site assessment as determined by the Bureau of Meteorology (BOM 2024) are outlined in Table 4.1.

Table 4.1 Weather conditions (nearest station: Murwillumbah)

| Temperature (C) | Rain (mm) | Wind Speed (km/h) | Relative humidity (%) |
|-----------------|-----------|-------------------|-----------------------|
| 12.5-18.5 | 1.6 | 15 | 84 |

Survey and Assessment Limitations

The survey effort was primarily focused on the proposal footprint and immediately adjacent habitats in order to determine the level of associated impacts. The survey consisted of methods in alignment with random meanders (Cropper 1993; Keith 2000). The flora survey completed is considered appropriate to determine vegetation communities at the site, their condition and conservation significance and determining the occurrence of threatened flora species or habitat.

Survey for threatened and migratory species was limited to a discrete period of time and may not represent species likely to frequent the site throughout the year. The survey method was deemed appropriate for the scale and condition of the site, the level of vegetation cover and fauna habitat features.



5 Site Assessment Results

5.1 Ground Truthed Vegetation

The site was characterised by regenerating eucalypt forest which extends over most of the site. The lower section of the site, closest to Clothier's Creek Road contains numerous very large remnant trees but lacks an understorey and the ground layer is characterised by weeds. Three PCTs were identified at the site and their description and condition are outlined in Table 5.1, the extents of the PCTs across the site are displayed in Figure 5.1. For the full plant list, refer to Appendix D – Flora and Fauna Inventory.

| PCT | Condition | Description |
|--|--------------|--|
| 3232- Far North Coastal Hills Blackbutt- Ironbark Forest | Regenerating | Tall open Blackbutt (<i>Eucalyptus pilularis</i>) dominated forest with frequently occuring Eastern-grey Ironbark (<i>Eucalyptus siderophloia</i>), with the eastern aspect dominated by Eastern-grey Ironbark. Broad- leafed White Mahogany (<i>Eucalyptus carnea</i>) occurs frequently, and Pink Bloodwood (<i>Corymbia intermedia</i>) also occur. Since the removal of horses form the site 18 months ago Red Ash (<i>Alphitonia excelsa</i>) and Forest Oak (<i>Allocasuarina torulosa</i>) saplings occur frequently throughout. Other common plants included Purple Coral Pea (<i>Hardenbergia violaceae</i>), Blue Flax-lily (<i>Dianella caerulea</i>), Cockspur (<i>Maclura chochichinensis</i>), Common Silkpod (<i>Parsonsia straminea</i>), Wombat Berry (<i>Eustrephus latifolius</i>) and Migeon Berry (<i>Austromyrtus dulcis</i>). |
| 3252- Northern Hinterland Grey Gum-Mahogany Grassy Forest | Degraded | Tall open forest on waterlogged soils and lower slopes at the site. Characterized by the presence of numerous widely spaced very large trees with many hollows. On lower slopes this PCT was less developed. The understory is defined by weeds which reflects current slashing practices. Characteristic plants included Small-fruited Grey Gum (<i>Eucalyptus propinqua</i>), Eastern-grey Ironbark (<i>Eucalyptus siderophloia</i>), Pink Bloodwood (<i>Corymbia intermedia</i>), Tallowwood (<i>Eucalyptus microcorys</i>), Spotted Gum (<i>Corymbia maculata</i>) and Black She-oak (<i>Allocasuarina littoralis</i>). |
| 4004- Northern Melaleuca quinquenervia Swamp Forest | Degraded | Occurs in a narrow, degraded strip at the boundary of the property adjoining Clothiers Creek Rd on waterlogged soils. Plants included Broad-leafed Paperbark (<i>Melaleuca quinquenervia</i>) and Bangalow Palm (<i>Archontophoenix cunninghamiana</i>). |

Table 5.1 Ground Truthed PCT(s)

5.1.1 Threatened Ecological Communities

PCT 4004- *Northern Melaleuca quinquenervia Swamp Forest* identified in a fragmented and degraded condition at the site is associated with a threatened ecological community (TEC) and endangered ecological community (EEC) under the BC Act and EPBC Act. Details of the presence of the TEC and EEC on the site are outlined in Table 5.2.



Table 5.2 TECs and EECs identified at the site

| Ecological Community | Condition | Meets listing criteria | Conservation Status |
|--|----------------------|---|------------------------|
| Swamp Sclerophyll Forest on Coastal Floodplains of the NSW North Coast, Sydney Basin and South East Corner Bioregions | Fragmented, degraded | Yes | Endangered- BC Act |
| Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland | Fragmented, degraded | No, size of 0.21 ha does not meet minimum 0.25 ha patch size | 5 |



5.2 Fauna Habitat

Fauna habitat identified during the ECA is discussed in the following sections. Impacts to this habitat should be avoided where possible in relation to the proposed development. Fauna habitat features are displayed in Figure 5.2.

5.2.1 Habitat Trees

5.2.1.1 Hollow Bearing Trees

Twelve hollow bearing trees were identified during the site assessment. These hollows are likely to be habitat for native fauna, including threatened species and impacts to these trees should be avoided.

Chapter A19 of the Tweed Shire DCP outlines a required setback of 10m from hollow bearing trees.

5.2.1.2 Foraging Habitat Trees

Foraging habitat trees across the site include nectar and fruit bearing species such as the eucalypts (*Eucalyptus pilularis, E. siderophloia, E.carnea, Corymbia maculate, C. gummifera, C. intermedia*), Borad-leafed Paperbark (*Melaleuca quinquenervia*), Willow Bottlebrush (*Melaleuca saligna*), Migeon Berry (*Austromyrtus dulcis*), Three-leaf Water Vine (*Tetrastigma nitens*) and Strangler Fig (*Ficus watkinsiana*). These are likely to provide foraging habitat for a number of native fauna species, including threatened species such as the Grey-headed Flying-fox (*Pteropus poliocephalus*).

5.2.1.3 Koala Feed Trees

One primary Koala food tree, Small-fruited Grey Gum (*Eucalyptus propinqua*), was identified at the site. The site is defined under the Tweed Coast KPoM as 'preferred habitat' due to the abundance of Koala use tree species at the site including Blackbutt (*Eucalyptus pilularis*), Broad-leafed Paperbark (*Melaleuca saligna*), Spotted Gum (*Corymbia maculate*), Grey Ironbark (*E. siderophloia*), Red Bloodwood (*C. gummifera*), Pink Bloodwood (*C. intermedia*) and Broad-leafed White Mahogany (*E. carnea*).

Chapter A19 of the Tweed Shire DCP outlines a setback of 20m for Core Koala habitat. As the site falls under the Tweed Coast KPoM, the KPoM assessment process will be required.

5.2.1.4 Decorticating Bark and Crevices

Decorticating bark was present throughout the site in the Grey Ironbarks. Numerous cavities were present in the very large trees on the lower northern section of the site. It's likely that these provide roosting habitat for numerous species including reptiles and microbats.

Chatper A19 of the Tweed Shire DCP outlines a setback of 10m for very large native trees.

5.2.1.5 Nests and Possum dreys

No nests or possum dreys were identified during the site assessment. However due to the ephemeral



nature of these features and the high quality habitat present at the site, it's likely that these habitat features will occur across the site at all times.

5.2.2 Bush Rock and Woody Debris

Bush rock was present across the slopes at the site and some significant woody debris was observed. These are likely to provide habitat for insects, reptiles and small mammal species. A number of large termite nests occurred across the upper slopes of the site.

5.2.3 Connectivity

The site is predominantly forested area with a smaller semi-central clearing. Much of the site is a mapped regional wildlife corridor. Tweed DCP outlines a setback of 20m for land mapped as a wildlife corridor. Minor variations to this setback may be considered by Council in the clearing within mapped wildlife corridor, as the area is in low condition, dominated by exotic grasses at an area of less than 5000m².



5.3 Aquatic Habitat

5.3.1 Waterways and Waterbodies

Ground truthed waterways and waterbodies at the site included one dam with one ephemeral unnamed first order stream flowing from it. The northern lower section of the property was waterlogged, and ephemeral pools and soaks were common. The hydrological features at the site may provide habitat for amphibians. The Tweed Shire DCP provides a setback of 10m for a first order stream. However, there is an existing road that passes through the ephemeral stream so a minor variation to the setback may be considered by Council.

5.4 Threatened Species Identifications and Habitat

One threatened flora species, Rainforest Cassia (*Senna acclinis*) was identified at the site, on the edge of the Cabarita water tank. The plant is listed as Endangered under the BC Act and impacts to this species must be avoided. The property owner has frequently observed Koalas (*Phascolarctos cinerus*) on the property, this is further validated with the numerous Koala records at the site. The potential for other threatened fauna species to frequent the site is highly likely due to the presence of high quality habitat and its position as a corridor to the adjoining Cudgen NR.







Figure: 5.1 Ground truthed vegetation Project: Clothiers Creek Road






5.2 Fauna habitat

Clothiers Creek Road



6 Ecological Constraints

The ecological constraints for the site have been categorised to low, medium and high based of the occurrence of ecological values that require extensive consideration for any proposed development.

Ecological constraints relative to the proposed development primarily consist of the following:

- Biodiversity Values mapping
- The predominance of established native vegetation
- The situation of the site within a regional wildlife corridor
- The presence of twelve hollow bearing trees
- The presence of Core Koala habitat
- The presence of numerous very large trees
- The presence of a TEC
- Other ecological values including foraging, roosting, sheltering breeding habitat for native fauna species

Much of the site contains high ecological constraints. By keeping works out of the BV mapped area, retaining the hollow bearing trees and the intact vegetation, the ecological constraints of the site will be accommodated for. Ecological constraints mapping is shown in Figure 6.1.





T.

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7 Recommendations

7.1 Pre-development Meeting and Stakeholder Consultation

A pre-development meeting with Council should be held to determine the requirements for minor variations in ecological setbacks related to the cleared area in the mapped wildlife corridor.

7.2 Future Planning Pathway

Design placement and positioning of APZs after bushfire assessment, along with Council requirements, will determine the future planning pathway. To avoid a BDAR and entry to the BOS, at minimum, the proposal would need to stay under the clearing thresholds and avoid works in the BV mapped area. In the circumstance that a BDAR is not required, a Flora and Fauna Assessment (FFA) will be required to provide a detailed assessment of the ecological values of the site. The FFA will provide an impact assessment and measures to avoid or minimise any ecological impacts associated with the development.



8 References

Bureau of Meteorology (BOM 2024) *Climate Data Online* <u>http://www.bom.gov.au/climate/data/</u>

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Department of Planning, Industry and Environment (DPIE 2024a) BioNet Atlas. <u>https://www.environment.nsw.gov.au/atlaspublicapp/UI_Modules/ATLAS_/AtlasSearch.aspx</u>

Department of Planning, Industry and Environment (DPIE 2024b) BioNet Vegetation Classification <u>https://www.environment.nsw.gov.au/NSWVCA20PRapp/search/pctsearch.aspx</u> (Accessed 05/07/2024)

Department of Planning, Industry and Environment (DPIE 2024c) eSpade2. <u>https://www.environment.nsw.gov.au/eSpade2Webapp/</u>

Department of Planning, Industry and Environment (DPIE 2024d) NSW State Vegetation Type Mapping. <u>https://datasets.seed.nsw.gov.au/dataset/nsw-state-vegetation-type-map</u>

(Accessed 03/07/2024)

Tweed Shire Council (2008) *Tweed Shire Development Control Plan: Section A19 Biodiversity*, Tweed Shire Council, Murwillumbah NSW.

Tweed Shire Council (2020) *Tweed Coast Comprehensive Koala Plan of Management*, Tweed Shire Council, Murwillumbah NSW.





Appendix A – Proposed Development



Appendix B – BioNet and PMST Results



Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Department of Planning, Industry and Environment. Search criteria : Public Report of all Valid Records of Threatened (listed on BC Act 2016) ,Protected ,CAMBA listed or JAMBA listed Entities in selected area [North: -28.29 West: 153.51 East: 153.61 South: -28.39] returned a total of 8,680 records of 451 species.

Report generated on 3/07/2024 10:45 AM

| Kingdo m | Class | Family | Species Code | Scientific Name | Exotic | Common Name | NSW statu s | Com m. Recor statu ds s | r Inf O |
|--------------|----------|---------------------|-----------------|--------------------------------|--------|---------------------------------|-------------------|----------------------------------|------------|
| Animali a | Amphibia | Myobatrac hidae | 3131 | Crinia parinsignifera | | Eastern Sign-bearing Froglet | Ρ | 5 | |
| Animali a | Amphibia | Myobatrac hidae | 3134 | Crinia signifera | | Common Eastern Froglet | Ρ | 51 | |
| Animali a | Amphibia | Myobatrac hidae | 3137 | Crinia tinnula | | Wallum Froglet | V,P | 33 | i |
| Animali a | Amphibia | Myobatrac hidae | 3074 | Mixophyes fasciolatus | | Great Barred Frog | Ρ | 2 | |
| | Amphibia | Myobatrac hidae | 3117 | Pseudophryne bibronii | | Bibron's Toadlet | Ρ | 3 | |
| | Amphibia | Myobatrac hidae | 3118 | Pseudophryne coriacea | | Red-backed Toadlet | Ρ | 22 | |
| | Amphibia | Myobatrac hidae | 3035 | Uperoleia fusca | | Dusky Toadlet | Ρ | 3 | |
| | Amphibia | Limnodyna stidae | 3001 | Adelotus brevis | | Tusked Frog | Ρ | 16 | |
| | Amphibia | Limnodyna stidae | 3061 | Limnodynastes peronii | | Brown-striped Frog | Ρ | 54 | |
| Animali a | Amphibia | Limnodyna stidae | 3064 | Limnodynastes terraereginae | | Northern Banjo Frog | Ρ | 8 | |
| Animali a | Amphibia | Limnodyna stidae | 3112 | Platyplectrum ornatum | | Ornate Burrowing Frog | Ρ | 5 | |
| Animali a | Amphibia | Hylidae | 3171 | Litoria caerulea | | Green Tree Frog | Ρ | 73 | |
| Animali a | Amphibia | Hylidae | 3174 | Litoria chloris | | Red-eyed Tree Frog | Ρ | 1 | |
| | Amphibia | Hylidae | 3180 | Litoria dentata | | Bleating Tree Frog | Ρ | 1 | |
| | Amphibia | Hylidae | 3183 | Litoria fallax | | Eastern Dwarf Tree Frog | Ρ | 81 | |
| | Amphibia | Hylidae | 3187 | Litoria gracilenta | | Dainty Green Tree Frog | Ρ | 42 | |
| | Amphibia | Hylidae | 3190 | Litoria jervisiensis | | Jervis Bay Tree Frog | Ρ | 1 | |
| | Amphibia | Hylidae | 3191 | Litoria latopalmata | | Broad-palmed Frog | Ρ | 7 | |
| | | | | | | | | | |

| Animali a | Amphibia | Hylidae | 3199 | Litoria nasuta | Rocket Frog | Ρ | | 24 |
|--------------|----------|-----------------|------|-----------------------------------|---------------------------------|------|---|-----|
| | Amphibia | Hylidae | 3202 | Litoria olongburensis | Olongburra Frog | V,P | V | з 🚺 |
| Animali a | Amphibia | Hylidae | 3204 | Litoria peronii | Peron's Tree Frog | Ρ | | 29 |
| Animali a | Amphibia | Hylidae | 9034 | Litoria sp. | Unidentified Tree Frog | Ρ | | 2 |
| Animali a | Amphibia | Hylidae | 3214 | Litoria tyleri | Tyler's Tree Frog | Ρ | | 20 |
| Animali a | Reptilia | Cheloniida e | 2004 | Caretta caretta | Loggerhead Turtle | E1,P | E | 50 |
| Animali a | Reptilia | Cheloniida e | 2007 | Chelonia mydas | Green Turtle | V,P | V | 19 |
| Animali a | Reptilia | Cheloniida e | T110 | Cheloniidae sp. | unidentified sea turtle | Ρ | | 5 |
| Animali a | Reptilia | Cheloniida e | 2008 | Eretmochelys imbricata | Hawksbill Turtle | Р | V | 5 |
| Animali a | Reptilia | Chelidae | 2017 | Chelodina longicollis | Eastern Snake- necked Turtle | Р | | 2 |
| Animali a | Reptilia | Chelidae | 2951 | Emydura macquarii macquarii | Macquarie River Turtle | Ρ | | 1 |
| Animali a | Reptilia | Chelidae | 2029 | Wollumbinia latisternum | Saw-shelled Turtle | Ρ | | 3 |
| Animali a | Reptilia | Pygopodid ae | 2174 | Pygopus lepidopodus | Common Scaly-foot | Р | | 4 |
| Animali a | Reptilia | Scincidae | 2295 | Anomalopus verreauxii | Three-clawed Worm- skink | Р | | 1 |
| Animali a | Reptilia | Scincidae | 2417 | Bellatorias major | Land Mullet | Ρ | | 1 |
| Animali a | Reptilia | Scincidae | 2558 | Calyptotis scutirostrum | Scute-snouted Calyptotis | Ρ | | 1 |
| Animali a | Reptilia | Scincidae | 2720 | Concinnia martini | Dark Barsided Skink | Р | | 2 |
| Animali a | Reptilia | Scincidae | 2331 | Cryptoblepharus virgatus | Cream-striped Shinning-skink | Ρ | | 21 |
| Animali a | Reptilia | Scincidae | 2375 | Ctenotus robustus | Robust Ctenotus | Р | | 16 |
| Animali a | Reptilia | Scincidae | 2575 | Cyclodomorphus gerrardii | Pink-tongued Lizard | Р | | 6 |
| Animali a | Reptilia | Scincidae | 2557 | Eulamprus quoyii | Eastern Water-skink | Ρ | | 1 |
| Animali a | Reptilia | Scincidae | 2447 | Lampropholis amicula | Friendly Sunskink | Ρ | | 8 |
| Animali a | Reptilia | Scincidae | 2450 | Lampropholis delicata | Dark-flecked Garden Sunskink | Ρ | | 30 |
| Animali a | Reptilia | Scincidae | 2451 | Lampropholis guichenoti | Pale-flecked Garden Sunskink | Ρ | | 3 |
| Animali a | Reptilia | Scincidae | T117 | Lampropholis sp. | unidentified grass skink | Ρ | | 3 |

| Animali a | Reptilia | Scincidae | 2307 | Lygisaurus foliorum | Tree-base Litter- skink | Р | 3 |
|--------------|----------|------------------|------|------------------------------------|---------------------------------|---|-----|
| Animali a | Reptilia | Scincidae | 2542 | Saiphos equalis | Three-toed Skink | Р | 6 |
| Animali a | Reptilia | Scincidae | 2580 | Tiliqua scincoides | Eastern Blue-tongue | Р | 41 |
| Animali a | Reptilia | Agamidae | 2252 | Intellagama Iesueurii | Eastern Water Dragon | Ρ | 39 |
| Animali a | Reptilia | Agamidae | 5075 | Intellagama lesueurii lesueurii | Eastern Water Dragon | Ρ | 4 |
| Animali a | Reptilia | Agamidae | 2177 | Pogona barbata | Bearded Dragon | Р | 20 |
| Animali a | Reptilia | Varanidae | 2271 | Varanus gouldii | Gould's Goanna | Р | 2 |
| Animali a | Reptilia | Varanidae | 2283 | Varanus varius | Lace Monitor | Р | 43 |
| Animali a | Reptilia | Typhlopida e | 2597 | Anilios ligatus | Robust Blind Snake | Р | 1 |
| Animali a | Reptilia | Typhlopida e | T112 | Anilios sp. | blind snake | Р | 2 |
| Animali a | Reptilia | Pythonidae | 2625 | Morelia spilota | Carpet & Diamond Pythons | Р | 5 |
| Animali a | Reptilia | Pythonidae | 5095 | Morelia spilota mcdowelli | Eastern Carpet Python | Р | 117 |
| Animali a | Reptilia | Colubridae | 2630 | Boiga irregularis | Brown Tree Snake | Р | 27 |
| Animali a | Reptilia | Colubridae | 2633 | Dendrelaphis punctulatus | Common Tree Snake | Р | 26 |
| Animali a | Reptilia | Colubridae | 2629 | Tropidonophis mairii | Freshwater Snake | Р | 4 |
| Animali a | Reptilia | Elapidae | 2646 | Cacophis krefftii | Southern Dwarf Crowned Snake | Р | 2 |
| Animali a | Reptilia | Elapidae | 2647 | Cacophis squamulosus | Golden-crowned Snake | Ρ | 1 |
| Animali a | Reptilia | Elapidae | 5136 | Cryptophis nigrescens | Eastern Small-eyed Snake | Ρ | 10 |
| Animali a | Reptilia | Elapidae | 2655 | Demansia psammophis | Yellow-faced Whip Snake | Р | 10 |
| Animali a | Reptilia | Elapidae | 2693 | Pseudechis porphyriacus | Red-bellied Black Snake | Р | 6 |
| Animali a | Reptilia | Elapidae | 2699 | Pseudonaja textilis | Eastern Brown Snake | Р | 36 |
| Animali a | Reptilia | Elapidae | 2723 | Tropidechis carinatus | Rough-scaled Snake | Р | 2 |
| Animali a | Reptilia | Elapidae | 2734 | Vermicella annulata | Bandy-bandy | Р | 2 |
| Animali a | Aves | Megapodii dae | 8000 | Alectura lathami | Australian Brush- turkey | Р | 146 |
| Animali a | Aves | Phasianida e | 9046 | Coturnix sp. | Unidentified Quail | Р | 1 |
| | | | | | | | |

| Animali a | Aves | Phasianida e | 0012 | Synoicus chinensis | King Quail | Ρ | 4 |
|--------------|------|-------------------|------|--------------------------------|------------------------------|-----|----|
| Animali a | Aves | Phasianida e | 0011 | Synoicus ypsilophora | Brown Quail | Р | 5 |
| Animali a | Aves | Anseranati dae | 0199 | Anseranas semipalmata | Magpie Goose | V,P | 2 |
| Animali a | Aves | Anatidae | 0210 | Anas castanea | Chestnut Teal | Ρ | 1 |
| Animali a | Aves | Anatidae | 0211 | Anas gracilis | Grey Teal | Р | 2 |
| Animali a | Aves | Anatidae | 0208 | Anas superciliosa | Pacific Black Duck | Р | 29 |
| Animali a | Aves | Anatidae | 0215 | Aythya australis | Hardhead | Ρ | 4 |
| Animali a | Aves | Anatidae | 0217 | Biziura lobata | Musk Duck | P | 2 |
| Animali a | Aves | Anatidae | 0202 | Chenonetta jubata | Australian Wood Duck | P | 35 |
| Animali a | Aves | Anatidae | 0203 | Cygnus atratus | Black Swan | P | 13 |
| Animali a | Aves | Anatidae | 0204 | Dendrocygna arcuata | Wandering Whistling- Duck | P | 1 |
| Animali a | Aves | Anatidae | 0205 | Dendrocygna eytoni | Plumed Whistling- Duck | P | 1 |
| Animali a | Aves | Podicipedi dae | 0061 | Tachybaptus novaehollandiae | Australasian Grebe | Р | 7 |
| Animali a | Aves | Columbida e | 0033 | Chalcophaps indica | Emerald Dove | Р | 18 |
| Animali a | Aves | Columbida e | 0028 | Columba leucomela | White-headed Pigeon | Р | 26 |
| Animali a | Aves | Columbida e | 0032 | Geopelia humeralis | Bar-shouldered Dove | Р | 42 |
| Animali a | Aves | Columbida e | 9931 | Geopelia striata | Peaceful Dove | Р | 14 |
| Animali a | Aves | Columbida e | 0044 | Leucosarcia melanoleuca | Wonga Pigeon | Ρ | 11 |
| Animali a | Aves | Columbida e | 0027 | Lopholaimus antarcticus | Topknot Pigeon | Р | 14 |
| Animali a | Aves | Columbida e | 0029 | Macropygia phasianella | Brown Cuckoo-Dove | Р | 14 |
| Animali a | Aves | Columbida e | 0043 | Ocyphaps lophotes | Crested Pigeon | Р | 59 |
| Animali a | Aves | Columbida e | 0034 | Phaps chalcoptera | Common Bronzewing | Р | 1 |
| Animali a | Aves | Columbida e | 0025 | Ptilinopus magnificus | Wompoo Fruit-Dove | V,P | 5 |
| Animali a | Aves | Columbida e | 0021 | Ptilinopus regina | Rose-crowned Fruit- Dove | V,P | 4 |
| Animali a | Aves | Columbida e | 0023 | Ptilinopus superbus | Superb Fruit-Dove | V,P | 1 |

| Animali a | Aves | Podargidae | 0314 | Podargus ocellatus | Marbled Frogmouth | V,P | | 1 | i |
|----------------|----------|-----------------------|------|-------------------------------|----------------------------|-------------|---------|-----|---|
| Animali a | Aves | Podargidae | 0313 | Podargus strigoides | Tawny Frogmouth | Ρ | | 68 | |
| a Animali | Aves | Caprimulgi | 0330 | Eurostopodus | White-throated | Р | | 6 | |
| а | | dae | | mystacalis | Nightjar | | | - | |
| Animali | Aves | Aegothelid | 0317 | Aegotheles | Australian Owlet- | Р | | 13 | |
| а | | ae | | cristatus | nightjar | | | | _ |
| Animali | Aves | Apodidae | 0334 | Hirundapus | White-throated | V,P | V,C,J, | 7 | i |
| a Animali | Aves | Diomedeid | 0088 | caudacutus Thalassarche | Needletail Black-browed | V,P | K V | 1 | |
| a | AVES | ae | 0088 | melanophris | Albatross | v,г | v | 1 | 1 |
| Animali | Aves | Procellariid | 0072 | Ardenna | Flesh-footed | V,P | J,K | 1 | |
| а | | ae | | carneipes | Shearwater | | | | - |
| Animali | Aves | Procellariid | 0070 | Ardenna grisea | Sooty Shearwater | Ρ | J | 1 | |
| a Amima ali | A | ae Dreselleriid | 0000 | Audence e cific c | Madra toilad | D | | 10 | |
| Animali a | Aves | Procellariid ae | 0069 | Ardenna pacifica | Wedge-tailed Shearwater | Р | J | 16 | |
| a Animali | Aves | Procellariid | 0071 | Ardenna | Short-tailed | Р | C,J,K | 54 | |
| a | /1100 | ae | 0071 | tenuirostris | Shearwater | | 0,,,,,, | 01 | |
| Animali | Aves | Procellariid | 0083 | Pachyptila turtur | Fairy Prion | Р | | 3 | |
| а | | ae | | | | | | | |
| Animali | Aves | Procellariid | 0075 | Pterodroma | Great-winged Petrel | Р | | 1 | |
| a Autimati | A | ae Des selleside | 0000 | macroptera | Electronic d | D | | 0 | |
| Animali | Aves | Procellariid | 0068 | Puffinus gavia | Fluttering Shearwater | Р | | 6 | |
| a Animali | Aves | ae Procellariid | 0913 | Puffinus huttoni | Hutton's Shearwater | Р | | 2 | |
| a | ///00 | ae | 0010 | i annao nacom | | | | 2 | |
| Animali | Aves | Spheniscid | 0005 | Eudyptula minor | Little Penguin | Р | | 3 | |
| а | | ae | | | | | | | |
| Animali | Aves | Sulidae | 0104 | Morus serrator | Australasian Gannet | Р | | 26 | |
| a Animali | Avea | Anhingidae | 0701 | Anhinga | Australasian Darter | Р | | 15 | |
| Animali a | Aves | Anningiuae | 0/31 | novaehollandiae | AUSUAIASIAII DAILEI | Р | | 15 | |
| Animali | Aves | Phalacroco | 0100 | Microcarbo | Little Pied | Р | | 15 | |
| а | | racidae | | melanoleucos | Cormorant | | | | |
| Animali | Aves | Phalacroco | 0096 | Phalacrocorax | Great Cormorant | Р | | 10 | |
| а | | racidae | | carbo | | | | | |
| Animali | Aves | Phalacroco | T021 | Phalacrocorax sp. | Unidentified | Р | | 2 | |
| a Animali | Aves | racidae Phalacroco | 0097 | Phalacrocorax | Cormorant Little Black | Р | | 24 | |
| a | 7.005 | racidae | 0007 | sulcirostris | Cormorant | | | 27 | |
| Animali | Aves | Phalacroco | 0099 | Phalacrocorax | Pied Cormorant | Р | | 37 | |
| а | | racidae | | varius | | | | | |
| Animali | Aves | Pelecanida | 0106 | Pelecanus | Australian Pelican | Р | | 81 | |
| a Animali | A | e | 0400 | conspicillatus | Disala da los d | F4 F | | 0.5 | |
| Animali 2 | Aves | Ciconiidae | 0183 | Ephippiorhynchus asiaticus | Black-necked Stork | E1,P | | 25 | ľ |
| a Animali | Aves | Ardeidae | 0186 | Ardea intermedia | Intermediate Egret | Р | | 3 | |
| a | | | 1200 | | | | | - | |
| | | | | | | | | | |

| Animali a | Aves | Ardeidae | 0189 | Ardea pacifica | White-necked Heron | Р | 2 |
|--------------|------|-----------------------|------|------------------------------|------------------------------|-----|----------------|
| Animali a | Aves | Ardeidae | T179 | Ardea/Egretta sp. | Unidentified Egret | Р | 8 |
| Animali a | Aves | Ardeidae | 0977 | Bubulcus ibis | Cattle Egret | Р | 16 |
| Animali a | Aves | Ardeidae | 0193 | Butorides striata | Striated Heron | Р | 7 |
| Animali a | Aves | Ardeidae | 8712 | Casmerodius modesta | Eastern Great Egret | Р | 17 |
| Animali a | Aves | Ardeidae | 0185 | Egretta garzetta | Little Egret | Р | 10 |
| Animali a | Aves | Ardeidae | 0188 | Egretta novaehollandiae | White-faced Heron | Р | 23 |
| Animali a | Aves | Ardeidae | 0191 | Egretta sacra | Eastern Reef Egret | Р | 4 |
| Animali a | Aves | Ardeidae | 8703 | lxobrychus dubius | Australian Little Bittern | Р | 1 |
| Animali a | Aves | Ardeidae | 0196 | Ixobrychus flavicollis | Black Bittern | V,P | ⁷ i |
| Animali a | Aves | Ardeidae | 0192 | Nycticorax caledonicus | Nankeen Night Heron | Р | 3 |
| Animali a | Aves | Threskiorni thidae | 0181 | Platalea regia | Royal Spoonbill | Р | 9 |
| Animali a | Aves | Threskiorni thidae | 0179 | Threskiornis moluccus | Australian White Ibis | Р | 62 |
| Animali a | Aves | Threskiorni thidae | 0180 | Threskiornis spinicollis | Straw-necked Ibis | Р | 5 |
| Animali a | Aves | Accipitrida e | 0221 | Accipiter fasciatus | Brown Goshawk | Р | 6 |
| Animali a | Aves | Accipitrida e | 0220 | Accipiter novaehollandiae | Grey Goshawk | Р | 2 |
| Animali a | Aves | Accipitrida e | 0224 | Aquila audax | Wedge-tailed Eagle | Р | 4 |
| Animali a | Aves | Accipitrida e | 0234 | Aviceda subcristata | Pacific Baza | Р | 5 |
| Animali a | Aves | Accipitrida e | 0219 | Circus approximans | Swamp Harrier | Р | 6 |
| Animali a | Aves | Accipitrida e | 0232 | Elanus axillaris | Black-shouldered Kite | Р | 11 |
| Animali a | Aves | Accipitrida e | 0226 | Haliaeetus leucogaster | White-bellied Sea- Eagle | V,P | 20 |
| Animali a | Aves | Accipitrida e | 0227 | Haliastur indus | Brahminy Kite | Р | 30 |
| Animali a | Aves | Accipitrida e | 0228 | Haliastur sphenurus | Whistling Kite | Р | 33 |
| Animali a | Aves | Accipitrida e | 0225 | Hieraaetus morphnoides | Little Eagle | V,P | 2 |
| Animali a | Aves | Accipitrida e | 0229 | Milvus migrans | Black Kite | Р | 1 |

| Animali a | Aves | Accipitrida e | 8739 | ^^Pandion cristatus | Eastern Osprey | V,P,3 | | 40 | i |
|--------------|------|----------------------|------|-------------------------------------|-----------------------------|-----------|--------------|-----|---|
| Animali a | Aves | Falconidae | 0239 | Falco berigora | Brown Falcon | Ρ | | 3 | |
| Animali a | Aves | Falconidae | 0240 | Falco cenchroides cenchroides | Nankeen Kestrel | Ρ | | 1 | |
| Animali a | Aves | Falconidae | 0237 | Falco peregrinus | Peregrine Falcon | Ρ | | 1 | |
| Animali a | Aves | Rallidae | 0053 | Amaurornis moluccana | Pale-vented Bush- hen | V,P | | 5 | i |
| Animali a | Aves | Rallidae | 0056 | Gallinula tenebrosa | Dusky Moorhen | Ρ | | 11 | |
| Animali a | Aves | Rallidae | 0046 | Hypotaenidia philippensis | Buff-banded Rail | Ρ | | 8 | |
| Animali a | Aves | Rallidae | 0045 | Lewinia pectoralis | Lewin's Rail | Ρ | | 5 | |
| Animali a | Aves | Rallidae | 0058 | Porphyrio porphyrio | Purple Swamphen | Ρ | | 53 | |
| Animali a | Aves | Rallidae | 0049 | Porzana fluminea | Australian Spotted Crake | Ρ | | 2 | |
| Animali a | Aves | Rallidae | 0050 | Porzana pusilla | Baillon's Crake | Ρ | | 3 | |
| Animali a | Aves | Rallidae | 0051 | Porzana tabuensis | Spotless Crake | Ρ | | 2 | |
| Animali a | Aves | Burhinidae | 0174 | Burhinus grallarius | Bush Stone-curlew | E1,P | | 180 | i |
| Animali a | Aves | Burhinidae | 0175 | Esacus magnirostris | Beach Stone-curlew | E4A, P | | 24 | i |
| Animali a | Aves | Haematop odidae | 0131 | Haematopus fuliginosus | Sooty Oystercatcher | V,P | | 7 | i |
| Animali a | Aves | Haematop odidae | 0130 | Haematopus longirostris | Pied Oystercatcher | E1,P | | 19 | i |
| Animali a | Aves | Recurvirost ridae | 0146 | Himantopus himantopus | Black-winged Stilt | Р | | 2 | |
| Animali a | Aves | Charadriid ae | 0140 | Charadrius bicinctus | Double-banded Plover | Ρ | | 7 | |
| Animali a | Aves | Charadriid ae | 0143 | Charadrius ruficapillus | Red-capped Plover | Ρ | | 2 | |
| Animali a | Aves | Charadriid ae | 0144 | Elseyornis melanops | Black-fronted Dotterel | Ρ | | 1 | |
| Animali a | Aves | Charadriid ae | 8006 | Pluvialis fulva | Pacific Golden Plover | Ρ | C,J,K | 4 | |
| Animali a | Aves | Charadriid ae | 0136 | Pluvialis squatarola | Grey Plover | Ρ | C,J,K | 3 | |
| Animali a | Aves | Charadriid ae | 0133 | Vanellus miles | Masked Lapwing | Ρ | | 126 | |
| Animali a | Aves | Scolopacid ae | 0166 | Calidris alba | Sanderling | V,P | C,J,K | 1 | i |
| Animali a | Aves | Scolopacid ae | 0161 | Calidris ferruginea | Curlew Sandpiper | E1,P | CE,C ,J,K | 1 | i |
| | | | | | | | | | |

| Animali | Aves | Scolopacid | 0165 | Calidris | Great Knot | V,P | V,C,J, | 1 | i |
|-------------------|------|------------------------|------|---|-----------------------------|------|--------------|-----|---|
| a Animali | Aves | ae Scolopacid | 0168 | tenuirostris Gallinago hardwickii | Latham's Snipe | Ρ | K J,K | 1 | |
| a Animali a | Aves | ae Scolopacid ae | T181 | large wader sp. | Large Waders | Ρ | | 1 | |
| a Animali a | Aves | Scolopacid | 0153 | Limosa lapponica | Bar-tailed Godwit | Ρ | C,J,K | 1 | |
| Animali a | Aves | Scolopacid ae | 0149 | Numenius madagascariensi s | Eastern Curlew | Ρ | CE,C ,J,K | 11 | i |
| Animali a | Aves | Scolopacid ae | 0150 | Numenius phaeopus | Whimbrel | Ρ | C,J,K | 6 | |
| Animali a | Aves | Scolopacid ae | 0155 | Tringa brevipes | Grey-tailed Tattler | Ρ | C,J,K | 3 | |
| Animali a | Aves | Scolopacid ae | 0156 | Tringa incana | Wandering Tattler | Ρ | J | 6 | |
| Animali a | Aves | Scolopacid ae | 0158 | Tringa nebularia | Common Greenshank | Ρ | C,J,K | 2 | |
| Animali a | Aves | Turnicidae | 0014 | Turnix varius | Painted Button-quail | Ρ | | 1 | |
| Animali a | Aves | Stercorarii dae | 0933 | Stercorarius longicaudus | Long-tailed Jaeger | Ρ | C,J | 2 | |
| Animali a | Aves | Stercorarii dae | 0128 | Stercorarius parasiticus | Arctic Jaeger | Ρ | C,J,K | 1 | |
| Animali a | Aves | Laridae | 0122 | Anous stolidus | Common Noddy | Ρ | C,J | 1 | |
| Animali a | Aves | Laridae | 0110 | Chlidonias hybrida | Whiskered Tern | Ρ | | 4 | |
| Animali a | Aves | Laridae | 0125 | Chroicocephalus novaehollandiae | Silver Gull | Ρ | | 112 | |
| Animali a | Aves | Laridae | 0111 | Gelochelidon nilotica | Gull-billed Tern | Ρ | С | 9 | |
| Animali a | Aves | Laridae | 0972 | Gygis alba | White Tern | V,P | | 1 | i |
| Animali a | Aves | Laridae | 0120 | Onychoprion fuscata | Sooty Tern | V,P | | 1 | i |
| Animali a | Aves | Laridae | 0953 | Sterna hirundo | Common Tern | Ρ | C,J,K | 4 | |
| Animali a | Aves | Laridae | 9022 | Sterna sp. | Tern | Ρ | | 2 | |
| Animali a | Aves | Laridae | 0117 | Sternula albifrons | Little Tern | E1,P | C,J,K | 7 | i |
| Animali a | Aves | Laridae | 0115 | Thalasseus bergii | Crested Tern | Ρ | J | 36 | |
| Animali a | Aves | Cacatuida e | 0269 | Cacatua galerita | Sulphur-crested Cockatoo | Ρ | | 14 | |
| Animali a | Aves | Cacatuida e | 0271 | Cacatua sanguinea | Little Corella | Ρ | | 14 | |

| Animali a | Aves | Cacatuida e | T187 | Cacatua sp. | | Ρ | 1 |
|--------------|------|----------------|------|--------------------------------------|---|-------------|--------|
| Animali a | Aves | Cacatuida e | 0272 | Cacatua tenuirostris | Long-billed Corella | Р | 2 |
| Animali a | Aves | Cacatuida e | 8858 | ^Calyptorhynchu s banksii banksii | Red-tailed Black- Cockatoo (coastal subspecies) | E4A, P,2 | 2 |
| Animali a | Aves | Cacatuida e | 8862 | ^Calyptorhynchu s lathami lathami | South-eastern Glossy Black- Cockatoo | V,P,2 | V 63 📘 |
| Animali a | Aves | Cacatuida e | 0273 | Eolophus roseicapilla | Galah | Ρ | 36 |
| Animali a | Aves | Cacatuida e | 0267 | Zanda funerea | Yellow-tailed Black- Cockatoo | Ρ | 11 |
| Animali a | Aves | Psittacidae | 0281 | Alisterus scapularis | Australian King- Parrot | Ρ | 8 |
| Animali a | Aves | Psittacidae | 0260 | Glossopsitta pusilla | Little Lorikeet | V,P | 2 |
| Animali a | Aves | Psittacidae | 0286 | Platycercus adscitus | Pale-headed Rosella | Ρ | 1 |
| Animali a | Aves | Psittacidae | 0282 | Platycercus elegans | Crimson Rosella | Ρ | 2 |
| Animali a | Aves | Psittacidae | 0288 | Platycercus eximius | Eastern Rosella | Ρ | 14 |
| Animali a | Aves | Psittacidae | 0256 | Trichoglossus chlorolepidotus | Scaly-breasted Lorikeet | Ρ | 63 |
| Animali a | Aves | Psittacidae | 9947 | Trichoglossus haematodus | Rainbow Lorikeet | Р | 117 |
| Animali a | Aves | Cuculidae | 0338 | Cacomantis flabelliformis | Fan-tailed Cuckoo | Ρ | 21 |
| Animali a | Aves | Cuculidae | 0339 | Cacomantis variolosus | Brush Cuckoo | Р | 6 |
| Animali a | Aves | Cuculidae | 0349 | Centropus phasianinus | Pheasant Coucal | Ρ | 16 |
| Animali a | Aves | Cuculidae | 0342 | Chalcites basalis | Horsfield's Bronze- Cuckoo | Р | 4 |
| Animali a | Aves | Cuculidae | 0343 | Chalcites lucidus | Shining Bronze- Cuckoo | Р | 10 |
| Animali a | Aves | Cuculidae | 0345 | Chalcites minutillus | Little Bronze-Cuckoo | Р | 1 |
| Animali a | Aves | Cuculidae | 0347 | Eudynamys orientalis | Eastern Koel | Ρ | 5 |
| Animali a | Aves | Cuculidae | 0337 | Heteroscenes pallidus | Pallid Cuckoo | Ρ | 1 |
| Animali a | Aves | Cuculidae | 0348 | Scythrops novaehollandiae | Channel-billed Cuckoo | Р | 8 |
| Animali a | Aves | Strigidae | 9922 | Ninox novaeseelandiae | Southern Boobook | Ρ | 6 |
| Animali a | Aves | Tytonidae | 9923 | Tyto javanica | Eastern Barn Owl | Р | 6 |

| Animali | Aves | Tytonidae | 0252 | ^^Tyto | Eastern Grass Owl | V,P,3 | 17 |
|-------------------|------|-----------------------|------|---|-------------------------------|-------|-----|
| a Animali | Aves | Tytonidae | 0250 | longimembris ^^Tyto novaehollandiae | Masked Owl | V,P,3 | 2 |
| a Animali 2 | Aves | Alcedinida | 0319 | Ceyx azureus | Azure Kingfisher | Р | 25 |
| a Animali a | Aves | e Alcedinida e | 0322 | Dacelo novaeguineae | Laughing Kookaburra | Р | 101 |
| Animali a | Aves | Alcedinida e | 0327 | Todiramphus chloris | Collared Kingfisher | V,P | 4 |
| Animali a | Aves | Alcedinida e | 0324 | Todiramphus macleayii | Forest Kingfisher | Р | 5 |
| Animali a | Aves | Alcedinida e | 0326 | Todiramphus sanctus | Sacred Kingfisher | Р | 18 |
| Animali a | Aves | Meropidae | 0329 | Merops ornatus | Rainbow Bee-eater | Р | 32 |
| Animali a | Aves | Coraciidae | 0318 | Eurystomus orientalis | Dollarbird | Р | 10 |
| Animali a | Aves | Pittidae | 0352 | Pitta versicolor | Noisy Pitta | Ρ | 2 |
| Animali a | Aves | Climacteri dae | 0558 | Cormobates leucophaea | White-throated Treecreeper | Р | 6 |
| Animali a | Aves | Ptilonorhyn chidae | 0679 | Ptilonorhynchus violaceus | Satin Bowerbird | Ρ | 1 |
| Animali a | Aves | Ptilonorhyn chidae | 0684 | Sericulus chrysocephalus | Regent Bowerbird | Р | 1 |
| Animali a | Aves | Maluridae | 0529 | Malurus cyaneus | Superb Fairy-wren | Р | 20 |
| Animali a | Aves | Maluridae | 0536 | Malurus lamberti | Variegated Fairy- wren | Ρ | 27 |
| Animali a | Aves | Maluridae | 0541 | Malurus melanocephalus | Red-backed Fairy- wren | Р | 14 |
| Animali a | Aves | Acanthizid ae | 0470 | Acanthiza lineata | Striated Thornbill | Р | 3 |
| Animali a | Aves | Acanthizid ae | 0471 | Acanthiza nana | Yellow Thornbill | Р | 3 |
| Animali a | Aves | Acanthizid ae | 0475 | Acanthiza pusilla | Brown Thornbill | Р | 26 |
| Animali a | Aves | Acanthizid ae | 0460 | Gerygone levigaster | Mangrove Gerygone | Р | 3 |
| Animali a | Aves | Acanthizid ae | 0454 | Gerygone mouki | Brown Gerygone | Р | 3 |
| Animali a | Aves | Acanthizid ae | 0453 | Gerygone olivacea | White-throated Gerygone | Р | 7 |
| Animali a | Aves | Acanthizid ae | 0488 | Sericornis frontalis | White-browed Scrubwren | Р | 50 |
| Animali a | Aves | Acanthizid ae | 0494 | Sericornis magnirostra | Large-billed Scrubwren | Р | 4 |
| Animali a | Aves | Pardalotid ae | 0565 | Pardalotus punctatus | Spotted Pardalote | Ρ | 6 |

| Animali | Aves | Pardalotid | 0976 | Pardalotus | Striated Pardalote | Р | 30 |
|--------------|---------|------------------|------|-----------------------------|---------------------------------|-------------|----------------|
| a Animoli | Avec | ae Moliphogid | 0640 | striatus | Spiny abaakad | Р | 1 |
| Animali | Aves | Meliphagid ae | 0640 | Acanthagenys rufogularis | Spiny-cheeked | ۲ | 1 |
| a Animali | Aves | Meliphagid | 0591 | Acanthorhynchus | Honeyeater Eastern Spinebill | Р | 8 |
| a | Aves | ae | 0391 | tenuirostris | Eastern Spinebill | Г | 0 |
| a Animali | Aves | Meliphagid | 0638 | Anthochaera | Red Wattlebird | Р | 1 |
| a | 71005 | ae | 0000 | carunculata | | 1 | - |
| Animali | Aves | Meliphagid | 0710 | Anthochaera | Little Wattlebird | Р | 21 |
| а | 1.100 | ae | 0/20 | chrysoptera | | | |
| Animali | Aves | Meliphagid | T210 | Anthochaera sp. | Unidentified | Р | 2 |
| а | | ae | - | | Wattlebird | | |
| Animali | Aves | Meliphagid | 0614 | Caligavis | Yellow-faced | Р | 12 |
| а | | ae | | chrysops | Honeyeater | | |
| Animali | Aves | Meliphagid | 0641 | Entomyzon | Blue-faced | Р | 24 |
| а | | ae | | cyanotis | Honeyeater | | |
| Animali | Aves | Meliphagid | 0597 | Lichmera | Brown Honeyeater | Р | 24 |
| а | | ae | | indistincta | | | |
| Animali | Aves | Meliphagid | 0634 | Manorina | Noisy Miner | Р | 96 |
| а | | ae | | melanocephala | | | |
| Animali | Aves | Meliphagid | 0605 | Meliphaga lewinii | Lewin's Honeyeater | Р | 37 |
| а | | ae | | | | | |
| Animali | Aves | Meliphagid | 0579 | Melithreptus | White-throated | Р | 5 |
| а | | ae | | albogularis | Honeyeater | | |
| Animali | Aves | Meliphagid | 0578 | Melithreptus | White-naped | Р | 2 |
| а | | ae | | lunatus | Honeyeater | | |
| Animali | Aves | Meliphagid | 0586 | Myzomela | Scarlet Honeyeater | Р | 21 |
| а | | ae | | sanguinolenta | | | |
| Animali | Aves | Meliphagid | 0646 | Philemon | Little Friarbird | Р | 5 |
| а | | ae | | citreogularis | | | |
| Animali | Aves | Meliphagid | 0645 | Philemon | Noisy Friarbird | Р | 65 |
| а | | ae | | corniculatus | | _ | |
| Animali | Aves | | 0632 | Phylidonyris niger | White-cheeked | Р | 21 |
| a | | ae | | | Honeyeater | _ | |
| Animali | Aves | Meliphagid | 0585 | Plectorhyncha | Striped Honeyeater | Р | 10 |
| a Animali | A. (0.0 | ae Deerbedid | 0404 | lanceolata | Faatarn W/hinhird | Р | 0.4 |
| Animali | Aves | Psophodid | 0421 | Psophodes olivaceus | Eastern Whipbird | ۲ | 24 |
| a Animali | Aves | ae Neosittida | 0549 | Daphoenositta | Varied Sittella | V,P | 2 |
| a | Aves | e | 0349 | chrysoptera | Valleu Sittella | v ,г | ² 1 |
| a Animali | Aves | Campepha | 0424 | Coracina | Black-faced Cuckoo- | Р | 29 |
| a | 71005 | gidae | 0727 | novaehollandiae | shrike | | 20 |
| Animali | Aves | Campepha | 0425 | Coracina | White-bellied | Р | 1 |
| а | | gidae | | papuensis | Cuckoo-shrike | | |
| Animali | Aves | Campepha | 0429 | Edolisoma | Cicadabird | Р | 6 |
| а | | gidae | | tenuirostris | | | |
| Animali | Aves | Campepha | 0431 | Lalage leucomela | Varied Triller | Р | 9 |
| а | | gidae | | - | | | |
| Animali | Aves | Pachyceph | 0408 | Colluricincla | Grey Shrike-thrush | Р | 31 |
| а | | alidae | | harmonica | | | |
| | | | | | | | |

| Animali a | Aves | Pachyceph alidae | 0413 | Colluricincla megarhyncha | Little Shrike-thrush | Ρ | 3 |
|-------------------------|------|--------------------------------|------|--------------------------------------|-------------------------------|-----|----------|
| Animali a | Aves | Pachyceph alidae | 0398 | Pachycephala pectoralis | Golden Whistler | Ρ | 26 |
| Animali a | Aves | Pachyceph alidae | 0401 | Pachycephala rufiventris | Rufous Whistler | Р | 41 |
| Animali a | Aves | Oriolidae | 0671 | Oriolus sagittatus | Olive-backed Oriole | Р | 21 |
| Animali a | Aves | Oriolidae | 0432 | Sphecotheres vieilloti | Australasian Figbird | Ρ | 138 |
| Animali a | Aves | Artamidae | 0543 | Artamus leucoryn | White-breasted Woodswallow | Р | 8 |
| Animali a | Aves | Artamidae | 0700 | Cracticus nigrogularis | Pied Butcherbird | Ρ | 44 |
| Animali a | Aves | Artamidae | T022 | Cracticus sp. | Unidentified Butcherbird | Р | 6 |
| Animali a | Aves | Artamidae | 0702 | Cracticus torquatus | Grey Butcherbird | P | 17 |
| Animali a | Aves | Artamidae | 0705 | Gymnorhina tibicen | Australian Magpie | P | 186 |
| Animali a | Aves | Artamidae | 0694 | Strepera graculina | Pied Currawong | P | 65 |
| Animali a | Aves | Dicruridae | 0673 | Dicrurus bracteatus Dhiniduro | Spangled Drongo | P | 22 |
| Animali a Animali | Aves | Rhipidurid ae Rhipidurid | 0361 | Rhipidura albiscapa Bhipidura | Grey Fantail | P | 24 30 |
| а | Aves | ae | 0364 | Rhipidura leucophrys Dhiaidura | Willie Wagtail | | |
| Animali a | Aves | Rhipidurid ae | 0362 | Rhipidura rufifrons | Rufous Fantail | Р | 2 |
| Animali a | Aves | Corvidae | 0930 | Corvus coronoides | Australian Raven | Р | 4 |
| Animali a | Aves | Corvidae | | Corvus orru | Torresian Crow | P | 34 |
| Animali a | Aves | Corvidae | 9067 | Corvus sp. | Unidentified Corvid | P | 1 |
| Animali a | Aves | Monarchid ae | 0376 | Carterornis leucotis | White-eared Monarch | V,P | 2 |
| Animali a | Aves | Monarchid ae | 0415 | Grallina cyanoleuca | Magpie-lark | Ρ | 56 |
| Animali a | Aves | Monarchid ae | 0373 | Monarcha melanopsis | Black-faced Monarch | Р | 1 |
| Animali a | Aves | Monarchid ae | 9955 | Myiagra inquieta | Restless Flycatcher | Р | 2 |
| Animali a | Aves | Monarchid ae | 0365 | Myiagra rubecula | Leaden Flycatcher | Р | 12 |
| Animali a | Aves | Monarchid ae | 0375 | Symposiachrus trivirgatus | Spectacled Monarch | Р | 1 |
| Animali a | Aves | Petroicidae | 0392 | Eopsaltria australis | Eastern Yellow Robin | Р | 10 |

| Animali a | Aves | Petroicidae | 0380 | Petroica boodang | Scarlet Robin | V,P | 1 |
|--------------|--------------|-----------------------|------|----------------------------------|-------------------------------|-----|-------|
| Animali a | Aves | Petroicidae | 0384 | Petroica rosea | Rose Robin | Ρ | 4 |
| Animali a | Aves | Cisticolida e | 0525 | Cisticola exilis | Golden-headed Cisticola | Ρ | 9 |
| Animali a | Aves | Acrocephal idae | 0524 | Acrocephalus australis | Australian Reed- Warbler | Ρ | 6 |
| Animali a | Aves | Locustellid ae | 0523 | Cincloramphus timoriensis | Tawny Grassbird | Ρ | 18 |
| Animali a | Aves | Locustellid ae | 0522 | Poodytes gramineus | Little Grassbird | Ρ | 1 |
| Animali a | Aves | Hirundinid ae | 0357 | Hirundo neoxena | Welcome Swallow | Р | 149 |
| Animali a | Aves | Hirundinid ae | 0360 | Petrochelidon ariel | Fairy Martin | Ρ | 2 |
| Animali a | Aves | Hirundinid ae | 0359 | Petrochelidon nigricans | Tree Martin | Ρ | 7 |
| Animali a | Aves | Turdidae | 0779 | Zoothera lunulata | Bassian Thrush | Ρ | 1 |
| Animali a | Aves | Turdidae | 7000 | Zoothera sp. | unidentified ground thrush | Р | 1 |
| Animali a | Aves | Zosteropid ae | 0574 | Zosterops lateralis | Silvereye | Ρ | 27 |
| Animali a | Aves | Zosteropid ae | 8577 | Zosterops lateralis cornwalli | | Ρ | 1 |
| Animali a | Aves | Dicaeidae | 0564 | Dicaeum hirundinaceum | Mistletoebird | Ρ | 16 |
| Animali a | Aves | Estrildidae | 0657 | Lonchura castaneothorax | Chestnut-breasted Mannikin | Р | 2 |
| Animali a | Aves | Estrildidae | 0662 | Neochmia temporalis | Red-browed Finch | Ρ | 16 |
| Animali a | Aves | Estrildidae | 0655 | Stizoptera bichenovii | Double-barred Finch | Ρ | 3 |
| Animali a | Aves | Motacillida e | 0647 | Anthus novaeseelandiae | Australian Pipit | Ρ | 3 |
| Animali a | Mammali a | Ornithorhy nchidae | 1001 | Ornithorhynchus anatinus | Platypus | Р | 2 |
| Animali a | Mammali a | Tachygloss idae | 1003 | Tachyglossus aculeatus | Short-beaked Echidna | Р | 130 |
| Animali a | Mammali a | Dasyuridae | 1674 | Antechinus stuartii | Brown Antechinus | Р | 2 |
| Animali a | Mammali a | Dasyuridae | 1008 | Dasyurus maculatus | Spotted-tailed Quoll | V,P | E 4 🖠 |
| Animali a | Mammali a | Dasyuridae | 1045 | Planigale maculata | Common Planigale | V,P | 43 |
| | Mammali a | Dasyuridae | 1061 | Sminthopsis murina | Common Dunnart | Ρ | 1 |
| Animali a | Mammali a | Peramelida e | 1093 | lsoodon macrourus | Northern Brown Bandicoot | Ρ | 126 |
| | | | | | | | |

| | | Peramelida | T081 | Isoodon/Peramel | unidentified Bandicoot | Ρ | | 11 |
|-------------------|-------------------|----------------------|------|-----------------------------|---|------------|---|--------|
| a Animali a | a Mammali a | e Peramelida e | 1097 | es sp. Perameles nasuta | Long-nosed Bandicoot | Р | | 22 |
| | | Phascolarc tidae | 1162 | Phascolarctos cinereus | Koala | E1,P | E | 1388 🚹 |
| | | Vombatida | 1165 | Vombatus ursinus | Bare-nosed Wombat | Ρ | | 4 |
| | | Petauridae | 1138 | Petaurus breviceps | Sugar Glider | Ρ | | 30 |
| | | Petauridae | 1137 | Petaurus norfolcensis | Squirrel Glider | V,P | | 1 |
| | | Petauridae | T084 | Petaurus sp. | Glider | Ρ | | 1 |
| Animali a | Mammali a | Pseudoche iridae | 1133 | Petauroides volans | Southern Greater Glider | E1,P | E | 15 |
| Animali a | Mammali a | Pseudoche iridae | 1129 | Pseudocheirus peregrinus | Common Ringtail Possum | Р | | 17 |
| Animali a | Mammali a | Acrobatida e | 1147 | Acrobates pygmaeus | Feathertail Glider | Ρ | | 1 |
| Animali a | Mammali a | Phalangeri dae | 1735 | Trichosurus caninus | Short-eared Possum | Ρ | | 30 |
| Animali a | Mammali a | Phalangeri dae | T082 | Trichosurus sp. | brushtail possum | Р | | 31 |
| Animali a | Mammali a | Phalangeri dae | 1113 | Trichosurus vulpecula | Common Brushtail Possum | Р | | 14 |
| Animali a | Mammali a | Potoroidae | 1175 | Potorous tridactylus | Long-nosed Potoroo | V,P | V | 4 |
| Animali a | Mammali a | Potoroidae | 1175 | Potorous tridactylus | Long-nosed Potoroo, Cobaki Lakes and Tweed Heads West population | E2,V, P | V | 4 |
| Animali a | Mammali a | Macropodi dae | T085 | Macropus sp. | kangaroo / wallaby | Р | | 14 |
| Animali a | Mammali a | Macropodi dae | 1261 | Notamacropus rufogriseus | Red-necked Wallaby | Р | | 5 |
| Animali a | Mammali a | Macropodi dae | 1242 | Wallabia bicolor | Swamp Wallaby | Ρ | | 633 |
| Animali a | Mammali a | Pteropodid ae | 1282 | Pteropus alecto | Black Flying-fox | Ρ | | 87 |
| Animali a | Mammali a | Pteropodid ae | 1280 | Pteropus poliocephalus | Grey-headed Flying- fox | V,P | V | 46 |
| Animali a | Mammali a | Pteropodid ae | 1281 | Pteropus scapulatus | Little Red Flying-fox | Р | | 3 |
| Animali a | Mammali a | Pteropodid ae | T087 | Pteropus sp. | Flying-fox | Ρ | | 10 |
| Animali a | Mammali a | Pteropodid ae | 1294 | Syconycteris australis | Common Blossom- bat | V,P | | 36 |
| Animali a | Mammali a | Rhinolophi dae | 1303 | Rhinolophus megaphyllus | Eastern Horseshoe- bat | Ρ | | 1 |
| | | | | | | | | |

| Animali | Mammali | Molossidae | 1324 | Austronomus | White-striped | Р | 9 | |
|----------------|--------------|-----------------------|------|---------------------|---------------------------|----------|----|---|
| a | а | Piolossidae | 1524 | australis | Freetail-bat | I | 3 | |
| | | Molossidae | 1329 | Micronomus | Eastern Coastal Free- | V.P | 1 | |
| а | а | | | norfolkensis | tailed Bat | , | | |
| Animali | Mammali | Molossidae | 1937 | Ozimops | Northern Free-tailed | V,P | 1 | • |
| а | а | | | lumsdenae | Bat | | | - |
| Animali | Mammali | Molossidae | 1938 | Ozimops ridei | Eastern Free-tailed | Р | 4 | |
| а | а | | | | Bat | | | |
| Animali | Mammali | Vespertilio | 1349 | Chalinolobus | Gould's Wattled Bat | Р | 6 | |
| а | а | nidae | | gouldii | | | | _ |
| Animali | Mammali | Vespertilio | 1354 | Chalinolobus | Hoary Wattled Bat | V,P | 1 | i |
| а | а | nidae | | nigrogriseus | | | | |
| Animali | Mammali | Vespertilio | 1372 | Falsistrellus | Eastern False | V,P | 1 | ĭ |
| a • • • | a | nidae | | tasmaniensis | Pipistrelle | | | |
| | | Vespertilio | 1357 | Myotis macropus | Southern Myotis | V,P | 15 | ĭ |
| a Amima ali | a | nidae Voor ortilio | 1000 | Nhantan hilan hifan | Fastern Lang age of | | ~ | |
| | | Vespertilio | 1336 | Nyctophilus bifax | Eastern Long-eared | V,P | 3 | Ĭ |
| a Animali | a Mammali | nidae Vespertilio | 1334 | Nyctophilus | Bat Gould's Long-eared | Р | 18 | |
| | a | nidae | 1334 | gouldi | Bat | r | 10 | |
| a Animali | | Vespertilio | T092 | Nyctophilus sp. | long-eared bat | Р | 3 | |
| a | a | nidae | 1052 | Nyetopintus sp. | | I | 0 | |
| | | Vespertilio | 1361 | Scoteanax | Greater Broad-nosed | V,P | 2 | |
| а | а | nidae | | rueppellii | Bat | • ,. | - | |
| | Mammali | Vespertilio | 1365 | Scotorepens | Eastern Broad-nosed | Р | 1 | |
| а | а | nidae | | orion | Bat | | | |
| Animali | Mammali | Vespertilio | 9029 | Scotorepens sp 1 | Central-eastern | Р | 1 | |
| а | а | nidae | | | Broad-nosed Bat | | | |
| Animali | Mammali | Vespertilio | 1377 | Vespadelus | Eastern Forest Bat | Р | 6 | |
| а | а | nidae | | pumilus | | | | |
| Animali | Mammali | Vespertilio | 1379 | Vespadelus | Little Forest Bat | Р | 3 | |
| а | а | nidae | | vulturnus | | | | _ |
| Animali | Mammali | Miniopterid | 1346 | Miniopterus | Little Bent-winged | V,P | 27 | i |
| а | а | ae | | australis | Bat | | | |
| Animali | Mammali | Miniopterid | 3330 | Miniopterus | Large Bent-winged | V,P | 4 | i |
| а | а | ae | | orianae | Bat | | | _ |
| A i | Manageral | Mandalaa | 4500 | oceanensis | One of the difference | D | - | |
| | Mammali | Muridae | 1500 | Melomys burtoni | Grassland Melomys | Р | 7 | |
| a Animali | a Mammali | Muridae | 1497 | Melomys | Fawn-footed | Р | 1 | |
| | a | Munuae | 1497 | cervinipes | Melomys | r | T | |
| a Animali | a Mammali | Muridae | T104 | Muridae sp. | unidentified murid | Р | 3 | |
| a | а | Funde | 1104 | Fundae Sp. | rodent | I | 0 | |
| | Mammali | Muridae | 1395 | Rattus fuscipes | Bush Rat | Р | 17 | |
| a | а | | | | | - | | |
| | Mammali | Muridae | 1398 | Rattus lutreolus | Swamp Rat | Р | 13 | |
| а | а | | | | | | | |
| | Mammali | Muridae | T094 | Rattus sp. | rat | Р | 11 | |
| а | а | | | | | | | |
| Animali | Mammali | Otariidae | 1543 | Arctocephalus | New Zealand Fur- | V,P | 2 | 1 |
| а | а | | | forsteri | seal | | | |
| | | | | | | | | |

| Animali a | Mammali a | Otariidae | 1882 | Arctocephalus pusillus doriferus | Australian Fur-seal | V,P | | 1 | i |
|--------------|--------------|------------------------------------|-------|---|------------------------------------|------|---|----|---|
| | | Balaenopte ridae | 1575 | Megaptera novaeangliae | Humpback Whale | Ρ | | 7 | i |
| | | Physeterid | 1578 | Physeter macrocephalus | Sperm Whale | V,P | | 1 | i |
| | | Delphinida e | 1616 | Delphinus delphis | Common Dolphin | Ρ | | 1 | |
| | | Delphinida e | 9039 | Dolphin sp. | Unidentified Dolphin | Ρ | | 3 | |
| | Mammali a | Delphinida e | 1899 | Tursiops aduncus | Indo-Pacific Bottlenose Dolphin | Ρ | | 2 | |
| | | Delphinida e | 1900 | Tursiops truncatus | Bottlenose Dolphin | Ρ | | 9 | |
| Animali a | Insecta | Noctuidae | 1021 | Phyllodes imperialis southern subspecies | Southern Pink Underwing Moth | E1 | E | 1 | i |
| Plantae | Flora | Apocynace ae | 1176 | Ochrosia moorei | Southern Ochrosia | E1 | E | 2 | i |
| Plantae | Flora | Arecaceae | 6458 | Archontophoenix cunninghamiana | Bangalow Palm | Ρ | | 25 | |
| Plantae | Flora | Arecaceae | 1215 | Calamus muelleri | Southern Lawyer Cane | Ρ | | 5 | |
| Plantae | Flora | Arecaceae | 1221 | Livistona australis | Cabbage Palm | Ρ | | 9 | |
| Plantae | Flora | Aspleniace ae | 8031 | Asplenium australasicum | Bird's Nest Fern | Ρ | | 6 | |
| Plantae | Flora | Asteliacea e | 1018 | Cordyline stricta | Narrow-leaved Palm Lily | Ρ | | 2 | |
| Plantae | Flora | Cunoniace ae | 10943 | ^Davidsonia jerseyana | Davidson's Plum | E1,2 | Е | 15 | i |
| Plantae | Flora | Cunoniace ae | 10944 | Davidsonia johnsonii | Smooth Davidson's Plum | E1 | E | 1 | i |
| Plantae | Flora | Cyatheace ae | 8074 | Cyathea australis | Rough Treefern | Ρ | | 1 | |
| Plantae | Flora | Cyperacea e | 2343 | Caustis recurvata | | Р | | 17 | |
| Plantae | Flora | Cyperacea e | 2442 | Gahnia sieberiana | Red-fruit Saw-sedge | Ρ | | 18 | |
| Plantae | Flora | Fabaceae (Caesalpini oideae) | 1877 | Caesalpinia bonduc | Knicker Nut | E1 | | 1 | i |
| Plantae | Flora | Fabaceae (Caesalpini oideae) | 1892 | Cassia marksiana | | E1 | | 8 | i |
| Plantae | Flora | Fabaceae (Faboideae) | 2833 | Desmodium acanthocladum | Thorny Pea | V | V | 1 | i |

| Plantae | Flora | Fabaceae (Mimosoid eae) | 3711 | Acacia bakeri | Marblewood | V | | 39 | i |
|---------|-------|-------------------------------|-------|---|-----------------------------|------|----|----|---|
| Plantae | Flora | Fabaceae (Mimosoid eae) | 7757 | Archidendron hendersonii | White Lace Flower | V | | 7 | i |
| Plantae | Flora | Flacourtiac | 3114 | Xylosma terrae- reginae | Queensland Xylosma | E1 | | 1 | i |
| Plantae | Flora | Lauraceae | 3477 | Cryptocarya foetida | Stinking Cryptocarya | V | V | 13 | i |
| Plantae | Flora | Lauraceae | 8948 | Endiandra floydii | Crystal Creek Walnut | E1 | Е | 11 | i |
| Plantae | Flora | Lauraceae | 3491 | Endiandra hayesii | Rusty Rose Walnut | V | V | 3 | i |
| Plantae | Flora | Lauraceae | 8480 | Endiandra muelleri subsp. bracteata | Green-leaved Rose Walnut | E1 | | 3 | 1 |
| Plantae | Flora | Lindsaeace ae | 8126 | ^^Lindsaea brachypoda | Short-footed Screw Fern | E1,3 | | 1 | i |
| Plantae | Flora | Lindsaeace ae | 8129 | ^^Lindsaea fraseri | Fraser's Screw Fern | E1,3 | | 2 | i |
| Plantae | Flora | Marattiace ae | 8141 | ^Angiopteris evecta | Giant Fern | E1,2 | | 3 | i |
| Plantae | Flora | Menisperm aceae | 3691 | Tinospora tinosporoides | Arrow-head Vine | V | | 1 | i |
| Plantae | Flora | Myrtaceae | 4282 | Rhodamnia maideniana | Smooth Scrub Turpentine | E4A | CE | 14 | i |
| Plantae | Flora | Myrtaceae | 4283 | Rhodamnia rubescens | Scrub Turpentine | E4A | CE | 14 | i |
| Plantae | Flora | Myrtaceae | 4284 | Rhodomyrtus psidioides | Native Guava | E4A | CE | 5 | i |
| Plantae | Flora | Myrtaceae | 4290 | Syzygium hodgkinsoniae | Red Lilly Pilly | V | V | 6 | i |
| Plantae | Flora | Myrtaceae | 4292 | Syzygium moorei | Durobby | V | V | 32 | i |
| Plantae | Flora | Orchidace ae | 9014 | Arthrochilus prolixus | | Ρ | | 2 | |
| Plantae | Flora | Orchidace ae | 4388 | Calanthe triplicata | Christmas Orchid | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 14090 | | | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 4414 | Cryptostylis erecta | Tartan Tongue Orchid | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 4417 | Cryptostylis subulata | Large Tongue Orchid | Ρ | | 3 | |
| Plantae | Flora | Orchidace | 4418 | Cymbidium madidum | | Ρ | | 1 | |
| Plantae | Flora | Orchidace | 4419 | Cymbidium suave | Snake Orchid | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 7888 | Dipodium variegatum | | Ρ | | 1 | |

| Plantae | Flora | Orchidace ae | 6672 | ^Geodorum densiflorum | Pink Nodding Orchid | E1,P, 2 | | 28 | i |
|-------------------------------|-------------------------|--|----------------------|---|-----------------------------|-------------|---|--------------|---|
| Plantae | Flora | Orchidace ae | 7622 | Microtis parviflora | Slender Onion Orchid | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 4479 | ^Peristeranthus hillii | Brown Fairy-chain Orchid | V,P,2 | | 3 | i |
| Plantae | Flora | Orchidace ae | 4480 | ^Phaius australis | Southern Swamp Orchid | E1,P, 2 | E | 3 | i |
| Plantae | Flora | Orchidace ae | PHAI | Phaius spp. | | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 4556 | Pterostylis hildae | Rainforest Greenhood | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 4564 | Pterostylis ophioglossa | Snake Tongue Greenhood | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 4568 | Pterostylis pedunculata | Maroonhood | Ρ | | 1 | |
| Plantae | Flora | Orchidace ae | 11449 | Thelymitra angustifolia | | Ρ | | 1 | |
| Plantae | Flora | Osmundac eae | 8151 | Todea barbara | King Fern | Ρ | | 3 | |
| Plantae | Flora | Pandanace ae | 9349 | Pandanus tectorius var. australianus | Screw Pine | Ρ | | 7 | |
| Plantae | Flora | Poaceae | 4776 | Arthraxon hispidus | Hairy Jointgrass | V | V | 16 | i |
| Plantae | Flora | Poaceae | 9108 | Elionurus citreus | Lemon-scented Grass | E1 | | 1 | i |
| Plantae | Flora | Polypodiac eae | 8156 | ^^Drynaria rigidula | Basket Fern | E1,3 | | 1 | i |
| Plantae | Flora | Polypodiac eae | 8159 | Platycerium bifurcatum | Elkhorn Fern | Ρ | | 2 | |
| Plantae | Flora | Polypodiac eae | 8161 | Platycerium superbum | Staghorn | Ρ | | 3 | |
| Plantae | Flora | Proteaceae | 5445 | Lomatia silaifolia | Crinkle Bush | Ρ | | 5 | |
| Plantae | Flora | Proteaceae | 5446 | Macadamia | Rough-shelled Bush | V | V | 1 | i |
| | | | | tetraphylla | Nut | | | | _ |
| Plantae | Flora | Proteaceae | 8769 | tetraphylla Persoonia adenantha | - | Ρ | | 4 | _ |
| Plantae Plantae | Flora Flora | Proteaceae Proteaceae | 8769 5455 | Persoonia | - | P P | | 4 12 | |
| | | | | Persoonia adenantha Persoonia | - | | | | |
| Plantae | Flora | Proteaceae | 5455 | Persoonia adenantha Persoonia cornifolia | - | Ρ | | 12 | |
| Plantae Plantae | Flora Flora | Proteaceae Proteaceae | 5455 8684 | Persoonia adenantha Persoonia cornifolia Persoonia media | - | P P | | 12 1 | |
| Plantae Plantae Plantae | Flora Flora Flora | Proteaceae Proteaceae Proteaceae | 5455 8684 PERS | Persoonia adenantha Persoonia cornifolia Persoonia media Persoonia spp. Persoonia | - | P P P | | 12 1 2 | |

| Plantae | Flora | Pteridacea | 7999 | Adiantum formosum | Giant Maidenhair | Ρ | | 1 |
|---------|-------|----------------------|------|---------------------------|-------------------------|----|---|--------------|
| Plantae | Flora | e Pteridacea e | 8000 | Adiantum hispidulum | Rough Maidenhair | Ρ | | 2 |
| Plantae | Flora | Pteridacea e | 8001 | Adiantum silvaticum | | Ρ | | 4 |
| Plantae | Flora | Rubiaceae | 6449 | Oldenlandia galioides | Sweet False Galium | E1 | | ³ |
| Plantae | Flora | Rubiaceae | 8297 | Randia moorei | Spiny Gardenia | E1 | Е | 9 1 |
| Plantae | Flora | Rutaceae | 6457 | Acronychia littoralis | Scented Acronychia | E1 | E | 13 |
| Plantae | Flora | Rutaceae | 5749 | Boronia parviflora | Swamp Boronia | Р | | 1 |
| Plantae | Flora | Rutaceae | 5758 | Boronia safrolifera | | Ρ | | 1 |
| Plantae | Flora | Sapindace ae | 8291 | Lepiderema pulchella | Fine-leaved Tuckeroo | V | | 1 |
| Plantae | Flora | Urticaceae | 6227 | Dendrocnide moroides | Gympie Stinger | E1 | | 4 |
| Plantae | Flora | Xanthorrho eaceae | 6316 | Xanthorrhoea australis | | Ρ | | 2 |
| Plantae | Flora | Xanthorrho eaceae | 8771 | Xanthorrhoea fulva | | Ρ | | 16 |
| Plantae | Flora | Xanthorrho eaceae | 6317 | Xanthorrhoea johnsonii | Johnson's Grass Tree | Р | | 5 |
| Plantae | Flora | Xanthorrho eaceae | 6318 | Xanthorrhoea macronema | | Ρ | | 4 |
| Plantae | Flora | Zamiaceae | 9179 | Macrozamia lucida | | Ρ | | 1 |



Australian Government

Department of Climate Change, Energy, the Environment and Water

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: 02-Jul-2024

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: | None |
|--|------|
| National Heritage Places: | None |
| Wetlands of International Importance (Ramsar | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | 1 |
| Listed Threatened Ecological Communities: | 6 |
| Listed Threatened Species: | 107 |
| Listed Migratory Species: | 60 |

Other Matters Protected by the EPBC Act

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

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at https://www.dcceew.gov.au/parks-heritage/heritage

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

| Commonwealth Lands: | 1 |
|---|------|
| Commonwealth Heritage Places: | None |
| Listed Marine Species: | 91 |
| 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: | 1 |
|---|------|
| Regional Forest Agreements: | 1 |
| Nationally Important Wetlands: | 1 |
| EPBC Act Referrals: | 10 |
| Key Ecological Features (Marine): | None |
| Biologically Important Areas: | 8 |
| Bioregional Assessments: | None |
| Geological and Bioregional Assessments: | None |

Details

Matters of National Environmental Significance

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 has, may have or is likely to have a significant impact on the environment.

Feature Name

Commonwealth Marine Area

Commonwealth Marine Areas (EPBC Act)

Listed Threatened Ecological Communities

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 Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community | Threatened Category Endangered | Presence Text Community likely to occur within area | Buffer Status In feature area |
|---|-----------------------------------|---|----------------------------------|
| Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland | Endangered | Community likely to occur within area | In buffer area only |
| Littoral Rainforest and Coastal Vine Thickets of Eastern Australia | Critically Endangered | Community likely to occur within area | In buffer area only |
| Lowland Rainforest of Subtropical Australia | Critically Endangered | Community likely to occur within area | In buffer area only |
| Subtropical and Temperate Coastal Saltmarsh | Vulnerable | Community likely to occur within area | In buffer area only |
| Subtropical eucalypt floodplain forest and woodland of the New South Wales North Coast and South East Queensland bioregions | Endangered | Community likely to occur within area | In feature area |

[Resource Information]

In buffer area only

Buffer Status

[Resource Information]

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 | | | |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|---|---------------------|
| Anthochaera phrygia Regent Honeyeater [82338] | Critically Endangered | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| Ardenna grisea | | | |
| Sooty Shearwater [82651] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Botaurus poiciloptilus | | | |
| Australasian Bittern [1001] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Calidris acuminata | | | |
| Sharp-tailed Sandpiper [874] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Calidris canutus | | | |
| Red Knot, Knot [855] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Calidris ferruginea | | | |
| Curlew Sandpiper [856] | Critically Endangered | Species or species habitat likely to occur within area | In feature area |
| Calyptorhynchus lathami lathami | | | |
| South-eastern Glossy Black-Cockatoo [67036] | Vulnerable | 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 likely to occur within area | In feature area |
| Climacteris picumnus victoriae | | | |
| Brown Treecreeper (south-eastern) [67062] | Vulnerable | Species or species habitat may occur within area | In feature area |

Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]

Critically Endangered Species or species In feature area habitat may occur within area

Diomedea antipodensis

Antipodean Albatross [64458]

Vulnerable

Species or species In buffer area only habitat may occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|---------------------|
| Diomedea antipodensis gibsoni Gibson's Albatross [82270] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Diomedea epomophora Southern Royal Albatross [89221] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Diomedea exulans Wandering Albatross [89223] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Erythrotriorchis radiatus Red Goshawk [942] | Endangered | Species or species habitat likely to occur within area | In feature area |
| <u>Falco hypoleucos</u> Grey Falcon [929] | Vulnerable | Species or species habitat may 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 buffer area only |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | 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 |
| Lathamus discolor Swift Parrot [744] | Critically Endangered | Species or species habitat may occur within area | In feature area |

Limosa lapponica baueri

Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380] Endangered

Species or species habitat known to occur within area

In feature area

Macronectes giganteus

Southern Giant-Petrel, Southern Giant Endangered Petrel [1060]

Species or species In buffer area only habitat may occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|---------------------|
| Macronectes halli Northern Giant Petrel [1061] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat known to occur within area | In feature area |
| Pachyptila turtur subantarctica Fairy Prion (southern) [64445] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Phoebetria fusca Sooty Albatross [1075] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Pterodroma leucoptera leucoptera Gould's Petrel, Australian Gould's Petrel [26033] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Pterodroma neglecta neglecta Kermadec Petrel (western) [64450] | Vulnerable | Foraging, feeding or related behaviour ma occur within area | • |
| <u>Rostratula australis</u> Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area | In feature area |
| <u>Stagonopleura guttata</u> Diamond Firetail [59398] | Vulnerable | Species or species habitat may occur within area | In feature area |
| <u>Sternula nereis nereis</u> Australian Fairy Tern [82950] | Vulnerable | Species or species habitat may occur within area | In feature area |

Thalassarche carteri

Indian Yellow-nosed Albatross [64464]

Vulnerable

Species or species In buffer area only habitat may occur within area

Thalassarche cauta Shy Albatross [89224]

Endangered

Species or species In buffer area only habitat may occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------------|--|---------------------|
| <u>Thalassarche impavida</u> Campbell Albatross, Campbell Black- browed Albatross [64459] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Thalassarche melanophris Black-browed Albatross [66472] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Thalassarche salvini</u> Salvin's Albatross [64463] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Thalassarche steadi</u> White-capped Albatross [64462] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Tringa nebularia</u> Common Greenshank, Greenshank [832] | Endangered | Species or species habitat likely to occur within area | In feature area |
| <u>Turnix melanogaster</u> Black-breasted Button-quail [923] | Vulnerable | Species or species habitat may occur within area | In feature area |
| FISH | | | |
| Epinephelus daemelii Black Rockcod, Black Cod, Saddled Rockcod [68449] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Hippocampus whitei</u> White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240] | Endangered | Species or species habitat known to occur within area | In feature area |
| <u>Seriolella brama</u> Blue Warehou [69374] | Conservation Dependent | Species or species habitat known to occur within area | In buffer area only |

Thunnus maccoyii

Southern Bluefin Tuna [69402]

Conservation Dependent

Species or species In buffer area only habitat known to occur within area

FROG

<u>Litoria olongburensis</u> Wallum Sedge Frog [1821]

Vulnerable

Species or species In feature area habitat known to occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-----------------------|--|---------------------|
| <u>Mixophyes fleayi</u> Fleay's Frog [25960] | Endangered | Species or species habitat likely to occur within area | In feature area |
| INSECT | | | |
| Argynnis hyperbius inconstans Australian Fritillary [88056] | Critically Endangered | Species or species habitat may occur within area | In feature area |
| Phyllodes imperialis smithersi Pink Underwing Moth [86084] | Endangered | Species or species habitat known to occur within area | In feature area |
| MAMMAL | | | |
| Balaenoptera musculus | | | |
| Blue Whale [36] | Endangered | Species or species habitat may occur within area | In buffer area only |
| <u>Chalinolobus dwyeri</u> Large-eared Pied Bat, Large Pied Bat [183] | Endangered | Species or species habitat may occur within area | In feature area |
| Dasyurus maculatus maculatus (SE mair | nland population) | | |
| Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184] | Endangered | Species or species habitat known to occur within area | In feature area |
| Eubalaena australis Southern Right Whale [40] | Endangered | Species or species habitat likely to occur within area | In buffer area only |
| <u>Notamacropus parma</u> Parma Wallaby [89289] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Petauroides volans Greater Glider (southern and central) [254] | Endangered | Species or species habitat known to | In feature area |



occur within area

Petaurus australis australis

Yellow-bellied Glider (south-eastern) Vulnerable [87600]

Species or species In feature area habitat likely to occur within area

Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)

Koala (combined populations of
Queensland, New South Wales and the
Australian Capital Territory) [85104]EndangeredSpecies or species
habitat known to
occur within areaIn feature area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|---------------------|
| Potorous tridactylus tridactylus | | | |
| Long-nosed Potoroo (northern) [66645] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Pseudomys novaehollandiae | | | |
| New Holland Mouse, Pookila [96] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Pteropus poliocephalus | | | |
| Grey-headed Flying-fox [186] | Vulnerable | Roosting known to occur within area | In feature area |
| <u>Xeromys myoides</u> | | | |
| Water Mouse, False Water Rat, Yirrkoo [66] | Vulnerable | Species or species habitat may occur within area | In feature area |
| PLANT | | | |
| Acronychia littoralis | | | |
| Scented Acronychia [8582] | Endangered | Species or species habitat known to occur within area | In feature area |
| Arthraxon hispidus | | | |
| Hairy-joint Grass [9338] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Baloghia marmorata | | | |
| Marbled Balogia, Jointed Baloghia [8463] | Vulnerable | Species or species habitat likely to occur within area | In buffer area only |
| Bosistoa transversa | | | |
| Three-leaved Bosistoa, Yellow Satinheart [16091] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Corokia whiteana | | | |
| [17820] | Endangered | Species or species habitat may occur within area | In buffer area only |

Cryptocarya foetida

Stinking Cryptocarya, Stinking Laurel Vulnerable [11976]

Species or species In feature area habitat known to occur within area

Cryptostylis hunteriana

Leafless Tongue-orchid [19533]

Vulnerable

Species or species In feature area habitat may occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|---------------------|
| Cynanchum elegans White-flowered Wax Plant [12533] | Endangered | Species or species habitat likely to occur within area | In feature area |
| <u>Davidsonia jerseyana</u> Davidson's Plum [67219] | Endangered | Species or species habitat known to occur within area | In buffer area only |
| Davidsonia johnsonii Smooth Davidsonia, Smooth Davidson's Plum, Small-leaved Davidson's Plum [67178] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Diospyros mabacea Red-fruited Ebony, Silky Persimmon, Ebony [18548] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Diploglottis campbellii Small-leaved Tamarind [21484] | Endangered | Species or species habitat likely to occur within area | |
| <u>Endiandra floydii</u> Floyd's Walnut, Crystal Creek Walnut [52955] | Endangered | Species or species habitat known to occur within area | In feature area |
| Endiandra hayesii Rusty Rose Walnut, Velvet Laurel [13866] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Fontainea australis Southern Fontainea [24037] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Gossia fragrantissima Sweet Myrtle, Small-leaved Myrtle [78867] | Endangered | Species or species habitat may occur within area | In feature area |

Hicksbeachia pinnatifolia

Monkey Nut, Bopple Nut, Red Bopple, Vulnerable Red Bopple Nut, Red Nut, Beef Nut, Red Apple Nut, Red Boppel Nut, Ivory Silky Oak [21189]

Leichhardtia longiloba listed as Marsdenia longiloba Clear Milkvine [91911] Vulnerable Species or species In feature area habitat likely to occur within area

Species or species In feature area habitat likely to occur within area
| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|---------------------|
| Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Macadamia tetraphylla Rough-shelled Bush Nut, Macadamia Nut, Rough-shelled Macadamia, Rough- leaved Queensland Nut [6581] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| <u>Ochrosia moorei</u> Southern Ochrosia [11350] | Endangered | Species or species habitat known to occur within area | In feature area |
| <u>Owenia cepiodora</u> Onionwood, Bog Onion, Onion Cedar [11344] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Pedleya acanthoclada listed as Desmodi | um acanthocladum | | |
| Thorny Pea [93275] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat known to occur within area | In feature area |
| <u>Randia moorei</u> Spiny Gardenia [10577] | Endangered | Species or species habitat known to occur within area | In feature area |
| Rhodamnia maideniana Smooth Scrub Turpentine [20665] | Critically Endangered | Species or species habitat known to occur within area | In feature area |
| Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763] | Critically Endangered | Species or species habitat known to occur within area | In feature area |

Rhodomyrtus psidioides Native Guava [19162]

Critically Endangered Species or species In feature area habitat known to occur within area

Sophora fraseri

[8836]

Vulnerable

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-------------------------------|--|---------------------|
| Syzygium hodgkinsoniae Smooth-bark Rose Apple, Red Lilly Pilly [3539] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Syzygium moorei Rose Apple, Coolamon, Robby, Durobby, Watermelon Tree, Coolamon Rose Apple [12284] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| <u>Thesium australe</u> Austral Toadflax, Toadflax [15202] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Vincetoxicum woollsii listed as Tylophora [40080] | <u>woollsii</u> Endangered | Species or species habitat likely to occur within area | In feature area |
| REPTILE | | | |
| <u>Caretta caretta</u> Loggerhead Turtle [1763] | Endangered | Breeding known to occur within area | In feature area |
| <u>Chelonia mydas</u> Green Turtle [1765] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Coeranoscincus reticulatus Three-toed Snake-tooth Skink [59628] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Delma torquata Adorned Delma, Collared Delma [1656] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Species or species habitat known to occur within area | In feature area |

Eretmochelys imbricata Hawksbill Turtle [1766]

Vulnerable

Species or species In feature area habitat known to occur within area

Furina dunmalli

Dunmall's Snake [59254]

Vulnerable

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------------|---|----------------------|
| 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 | Species or species habitat known to occur within area | In feature area |
| SHARK | | | |
| Carcharias taurus (east coast population) Grey Nurse Shark (east coast population) [68751] | Critically Endangered | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| Carcharodon carcharias White Shark, Great White Shark [64470] | Vulnerable | Species or species habitat known to occur within area | In buffer area only |
| Galeorhinus galeus School Shark, Eastern School Shark, Snapper Shark, Tope, Soupfin Shark [68453] | Conservation Dependent | Species or species habitat may occur within area | In buffer area only |
| Rhincodon typus Whale Shark [66680] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Sphyrna lewini</u> Scalloped Hammerhead [85267] | Conservation Dependent | Species or species habitat likely to occur within area | In buffer area only |
| SNAIL | | | |
| Thersites mitchellae Mitchell's Rainforest Snail [66774] | Critically Endangered | Species or species habitat known to occur within area | In feature area |
| Listed Migratory Species | | [Res | source Information] |
| Scientific Name | Threatened Category | Presence Text | Buffer Status |
| Migratory Marine Birds | | | |
| Anous stolidus Common Noddy [825] | | Species or species habitat likely 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 |
| | | | |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|---|---------------------|
| Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] | | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <u>Ardenna grisea</u> Sooty Shearwater [82651] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Calonectris leucomelas Streaked Shearwater [1077] | | Species or species habitat known to occur within area | In buffer area only |
| Diomedea antipodensis Antipodean Albatross [64458] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Diomedea epomophora Southern Royal Albatross [89221] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Diomedea exulans Wandering Albatross [89223] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| 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 likely to occur within area | In buffer area only |
| Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered | Species or species habitat may occur within area | In buffer area only |

Macronectes halli

Northern Giant Petrel [1061]

Vulnerable

Species or species In buffer area only habitat may occur within area

Phaethon lepturus

White-tailed Tropicbird [1014]

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|--|---------------------|
| Phoebetria fusca Sooty Albatross [1075] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Sternula albifrons</u> Little Tern [82849] | | Breeding likely to occur within area | In feature area |
| Thalassarche carteri Indian Yellow-nosed Albatross [64464] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Thalassarche cauta</u> Shy Albatross [89224] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Thalassarche impavida Campbell Albatross, Campbell Black- browed Albatross [64459] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Thalassarche melanophris Black-browed Albatross [66472] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Thalassarche salvini</u> Salvin's Albatross [64463] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Thalassarche steadi White-capped Albatross [64462] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Migratory Marine Species | | | |
| <u>Balaenoptera edeni</u> Bryde's Whale [35] | | Species or species habitat may occur within area | In buffer area only |

Balaenoptera musculus Blue Whale [36]

Endangered

Species or species In buffer area only habitat may occur within area

Species or species In buffer area only habitat may occur within area

Carcharhinus longimanus

Oceanic Whitetip Shark [84108]

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|---------------------|
| Carcharodon carcharias White Shark, Great White Shark [64470] | Vulnerable | Species or species habitat known to occur within area | In buffer area only |
| Caretta caretta Loggerhead Turtle [1763] | Endangered | Breeding known to occur within area | In feature area |
| Chelonia mydas Green Turtle [1765] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | 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 |
| Eubolaono quetrolio en Poloono glaciolio d | | | |
| Eubalaena australis as Balaena glacialis a Southern Right Whale [40] | Endangered | Species or species habitat likely to occur within area | In buffer area only |
| <u>Lamna nasus</u> Porbeagle, Mackerel Shark [83288] | | Species or species habitat may occur within area | In buffer area only |
| Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767] | Endangered | Breeding likely to occur within area | In feature area |
| Megaptera novaeangliae Humpback Whale [38] | | Species or species habitat known to occur within area | In buffer area only |
| <u>Mobula alfredi as Manta alfredi</u> Reef Manta Ray, Coastal Manta Ray | | Species or species | In buffer area only |

[90033]

Mobula birostris as Manta birostris Giant Manta Ray [90034]

Species or species habitat known to occur within area In buffer area only

Species or species In buffer area only habitat may occur within area

Natator depressus Flatback Turtle [59257]

Vulnerable

Species or species In feature area habitat known to occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|---|---------------------|
| <u>Orcinus orca</u> Killer Whale, Orca [46] | | Species or species habitat may occur within area | In buffer area only |
| <u>Rhincodon typus</u> Whale Shark [66680] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Sousa sahulensis as Sousa chinensis Australian Humpback Dolphin [87942] | | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| Migratory Terrestrial Species | | | |
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat may 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 |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area | In feature area |
| <u>Motacilla flava</u> Yellow Wagtail [644] | | Species or species habitat may occur within area | In buffer area only |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known to occur within area | In feature area |
| <u>Rhipidura rufifrons</u> Rufous Fantail [592] | | Species or species habitat likelv to occur | In feature area |

habitat likely to occur within area

<u>Symposiachrus trivirgatus as Monarcha trivirgatus</u> Spectacled Monarch [83946]

Species or species In feature area habitat known to occur within area

Migratory Wetlands Species Actitis hypoleucos Common Sandpiper [59309]

Species or species In feature area habitat likely to occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-----------------------|---|---------------------|
| Calidris acuminata Sharp-tailed Sandpiper [874] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| <u>Calidris canutus</u> Red Knot, Knot [855] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| <u>Calidris ferruginea</u> Curlew Sandpiper [856] | Critically Endangered | Species or species habitat likely to occur within area | In feature area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area | In feature area |
| Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Gallinago megala Swinhoe's Snipe [864] | | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| Gallinago stenura Pin-tailed Snipe [841] | | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <u>Limosa lapponica</u> Bar-tailed Godwit [844] | | Species or species | In feature area |
| | | babitat known to | |

habitat known to occur within area

Numenius madagascariensis

Eastern Curlew, Far Eastern Curlew [847]

Critically Endangered Species or species In feature area habitat known to occur within area

Numenius minutus

Little Curlew, Little Whimbrel [848]

Foraging, feeding or In buffer area only related behaviour likely to occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|-----------------|
| Pandion haliaetus Osprey [952] | | Breeding known to occur within area | In feature area |
| <u>Tringa nebularia</u> Common Greenshank, Greenshank [832] | Endangered | Species or species habitat likely to occur within area | In feature area |

Other Matters Protected by the EPBC Act

| Commonwealth Lands | [Resource Information] |
|--|------------------------|
| The Commonwealth area listed below may indicate the presence of Commonweal the unreliability of the data source, all proposals should be checked as to whether Commonwealth area, before making a definitive decision. Contact the State or Tel department for further information. | it impacts on a |

| Commonwealth Land Name | State | Buffer Status |
|---|------------|---------------------|
| Communications, Information Technology and the Arts - Telstra Corporation | on Limited | |
| Commonwealth Land - Australian Telecommunications Commission [1124 | 0]NSW | In buffer area only |

| Listed Marine Species | | [<u>Res</u> | source Information] |
|--------------------------|---------------------|---|----------------------|
| Scientific Name | Threatened Category | Presence Text | Buffer Status |
| Bird | | | |
| Actitis hypoleucos | | | |
| Common Sandpiper [59309] | | Species or species habitat likely to occur within area | In feature area |
| Anous stolidus | | | |
| Common Noddy [825] | | Species or species habitat likely 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]

Ardenna carneipes as Puffinus carneipes

Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]

Species or species In feature area habitat likely to occur within area overfly marine area

Foraging, feeding or In buffer area only related behaviour likely to occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-----------------------|--|--|
| <u>Ardenna grisea as Puffinus griseus</u> Sooty Shearwater [82651] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| 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] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| <u>Calidris canutus</u> Red Knot, Knot [855] | Vulnerable | Species or species habitat known to occur within area overfly marine area | In feature area |
| <u>Calidris ferruginea</u> Curlew Sandpiper [856] | Critically Endangered | Species or species habitat likely to occur within area overfly marine area | In feature area |
| <u>Calidris melanotos</u> Pectoral Sandpiper [858] | | Species or species habitat may occur within area overfly marine area | In feature area |
| Calonectris leucomelas Streaked Shearwater [1077] | | Species or species habitat known to occur within area | In buffer area only |
| Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Red Knot, Knot [855] Calidris ferruginea Curlew Sandpiper [856] Calidris melanotos Pectoral Sandpiper [858] Calonectris leucomelas Streaked Shearwater [1077] Charadrius leschenaultii Greater Sand Plover, Large Sand Plover | Critically Endangered | habitat known to occur within area overfly marine area Species or species habitat likely to occur within area overfly marine area Species or species habitat may occur within area overfly marine area Species or species habitat known to occur within area Species or species habitat known to occur within area | In feature area In feature area onl |

Diomedea antipodensis

Antipodean Albatross [64458]

Vulnerable

Species or species In buffer area only habitat may occur within area

Diomedea antipodensis gibsoni as Diomedea gibsoni Gibson's Albatross [82270] Vulnerable

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|--|---------------------|
| Diomedea epomophora Southern Royal Albatross [89221] | Vulnerable | Species or species | In buffer area only |
| | | habitat may occur within area | |
| Diomedea exulans Wandering Albatross [89223] | Vulnerable | Species or species | In buffer area only |
| | | habitat may occur within area | |
| Fregata ariel | | Species or species | In feature area |
| Lesser Frigatebird, Least Frigatebird [1012] | | habitat known to occur within area | in leature area |
| <u>Fregata minor</u> Great Frigatebird, Greater Frigatebird | | Species or species | In buffer area only |
| [1013] | | habitat likely to occur within area | • |
| Gallinago hardwickii | | | |
| Latham's Snipe, Japanese Snipe [863] | Vulnerable | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Gallinago megala | | | |
| Swinhoe's Snipe [864] | | Foraging, feeding or related behaviour likely to occur within area overfly marine area | In buffer area only |
| Gallinago stenura | | | |
| Pin-tailed Snipe [841] | | Foraging, feeding or related behaviour likely to occur within area overfly marine area | In buffer area only |
| Haliaeetus leucogaster | | On a single set of the | |
| White-bellied Sea-Eagle [943] | | Species or species habitat known to occur within area | In feature area |

| Vulnerable | Species or species habitat known to occur within area overfly marine area | In feature area |
|------------|--|---------------------------------------|
| | Vulnerable | habitat known to occur within area |

Swift Parrot [744]

Critically Endangered

ered Species or species In feature area habitat may occur within area overfly marine 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 |
| Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Macronectes halli Northern Giant Petrel [1061] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may 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 may occur within area overfly marine area | In buffer area only |
| 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 |

Numenius minutus

Little Curlew, Little Whimbrel [848]

Foraging, feeding or In buffer area only related behaviour likely to occur within area overfly marine area

Pachyptila turtur Fairy Prion [1066]

Species or species In feature area habitat known to occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|------------------------|---|---------------------|
| Pandion haliaetus Osprey [952] | | Breeding known to occur within area | In feature area |
| Phaethon lepturus White-tailed Tropicbird [1014] | | Species or species habitat may occur within area | In buffer area only |
| Phoebetria fusca | | | |
| Sooty Albatross [1075] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Pterodroma cervicalis | | | |
| White-necked Petrel [59642] | | Species or species habitat may occur within area | In feature area |
| Rhipidura rufifrons | | | |
| Rufous Fantail [592] | | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Rostratula australis as Rostratula bene | nhalensis (sensu lato) | | |
| Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Stercorarius antarcticus as Catharacta | skua | | |
| Brown Skua [85039] | | Species or species habitat may occur within area | In buffer area only |
| Sterna striata | | | |
| White-fronted Tern [799] | | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| Sternula albifrons as Sterna albifrons | | | |
| Little Tern [82849] | | Breeding likely to occur within area | In feature area |

occur within area

<u>Symposiachrus trivirgatus as Monarcha trivirgatus</u> Spectacled Monarch [83946]

Species or species In feature area habitat known to occur within area overfly marine area

<u>Thalassarche carteri</u> Indian Yellow-nosed Albatross [64464]

Vulnerable

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|---|---------------------|
| Thalassarche cauta Shy Albatross [89224] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Thalassarche impavida Campbell Albatross, Campbell Black- browed Albatross [64459] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Thalassarche melanophris Black-browed Albatross [66472] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Thalassarche salvini</u> Salvin's Albatross [64463] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Thalassarche steadi</u> White-capped Albatross [64462] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| <u>Tringa nebularia</u> Common Greenshank, Greenshank [832] | Endangered | 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 buffer area only |
| <u>Campichthys tryoni</u> Tryon's Pipefish [66193] | | Species or species habitat may occur within area | In buffer area only |
| <u>Corythoichthys amplexus</u> Fijian Banded Pipefish, Brown-banded Pipefish [66199] | | Species or species habitat may occur | In buffer area only |

Corythoichthys ocellatus

Orange-spotted Pipefish, Ocellated Pipefish [66203]

Festucalex cinctus Girdled Pipefish [66214] within area

Species or species In buffer area only habitat may occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|---------------------|
| <u>Filicampus tigris</u> Tiger Pipefish [66217] | | Species or species habitat may occur within area | In buffer area only |
| <u>Halicampus grayi</u> Mud Pipefish, Gray's Pipefish [66221] | | Species or species habitat may occur within area | In buffer area only |
| Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228] | | Species or species habitat may occur within area | In buffer area only |
| <u>Hippichthys heptagonus</u> Madura Pipefish, Reticulated Freshwate Pipefish [66229] | ۶r | Species or species habitat may occur within area | In buffer area only |
| <u>Hippichthys penicillus</u> Beady Pipefish, Steep-nosed Pipefish [66231] | | Species or species habitat may occur within area | In buffer area only |
| <u>Hippocampus kelloggi</u> Kellogg's Seahorse, Great Seahorse [66723] | | Species or species habitat may occur within area | In buffer area only |
| Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237] | | Species or species habitat may occur within area | In buffer area only |
| Hippocampus planifrons Flat-face Seahorse [66238] | | Species or species habitat may occur within area | In buffer area only |
| Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720] | | Species or species habitat may occur within area | In buffer area only |

Hippocampus whitei

White's Seahorse, Crowned Seahorse, Endangered Sydney Seahorse [66240]

Lissocampus runa

Javelin Pipefish [66251]

Species or species habitat known to occur within area

In feature area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|--|---------------------|
| <u>Maroubra perserrata</u> Sawtooth Pipefish [66252] | | Species or species habitat may occur within area | In buffer area only |
| Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253] | | Species or species habitat may occur within area | In buffer area only |
| Micrognathus brevirostris thorntail Pipefish, Thorn-tailed Pipefish [66254] | | Species or species habitat may occur within area | In buffer area only |
| <u>Microphis manadensis</u> Manado Pipefish, Manado River Pipefisl [66258] | ٦ | Species or species habitat may occur within area | In buffer area only |
| Solegnathus dunckeri Duncker's Pipehorse [66271] | | Species or species habitat may occur within area | In buffer area only |
| Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272] | | Species or species habitat may occur within area | In buffer area only |
| Solegnathus spinosissimus Spiny Pipehorse, Australian Spiny Pipehorse [66275] | | Species or species habitat may occur within area | In buffer area only |
| Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghos Pipefish, [66183] | t | Species or species habitat may occur within area | In buffer area only |
| Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184] | | Species or species habitat may occur within area | In buffer area only |

Stigmatopora nigra

Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]

Syngnathoides biaculeatus

Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279] Species or species In buffer area only habitat may occur within area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|---|---------------------|
| Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280] | | Species or species habitat may occur within area | In buffer area only |
| <u>Urocampus carinirostris</u> Hairy Pipefish [66282] | | Species or species habitat may occur within area | In buffer area only |
| Vanacampus margaritifer Mother-of-pearl Pipefish [66283] | | Species or species habitat may occur within area | In buffer area only |
| Reptile | | | |
| Caretta caretta Loggerhead Turtle [1763] | Endangered | Breeding known to occur within area | In feature area |
| <u>Chelonia mydas</u> Green Turtle [1765] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | 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 |
| <u>Hydrophis elegans</u> Elegant Sea Snake, Bar-bellied Sea Snake [1104] | | Species or species habitat may occur within area | In buffer area only |
| Hydrophis platura as Pelamis platurus Yellow-bellied Sea Snake [93746] | | Species or species habitat may occur within area | In buffer area only |

Hydrophis stokesii as Astrotia stokesii Stokes' Sea Snake [93510]

Species or species In buffer area only habitat may occur within area

Lepidochelys olivacea

Olive Ridley Turtle, Pacific Ridley Turtle Endangered [1767]

Breeding likely to occur within area

In feature area

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|---------------------|---|-----------------|
| Natator depressus Flatback Turtle [59257] | Vulnerable | Species or species habitat known to occur within area | In feature area |

| Whales and Other Cetaceans | | [<u>Re</u> : | source 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 buffer area only |
| <u>Balaenoptera edeni</u> Bryde's Whale [35] | | Species or species habitat may occur within area | In buffer area only |
| Balaenoptera musculus Blue Whale [36] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60] | | Species or species habitat may occur within area | In buffer area only |
| Eubalaena australis Southern Right Whale [40] | Endangered | Species or species habitat likely to occur within area | In buffer area only |
| <u>Grampus griseus</u> Risso's Dolphin, Grampus [64] | | Species or species habitat may occur within area | In buffer area only |
| Megaptera novaeangliae Humpback Whale [38] | | Species or species habitat known to occur within area | In buffer area only |

Orcinus orca

Killer Whale, Orca [46]

Sousa sahulensis Australian Humpback Dolphin [87942] Species or species habitat may occur In buffer area only within area

Foraging, feeding or related behaviour In buffer area only likely to occur within area

| Current Scientific Name | Status | Type of Presence | Buffer Status |
|--|--------|--|---------------------|
| Stenella attenuata | | | |
| Spotted Dolphin, Pantropical Spotted Dolphin [51] | | Species or species habitat may occur within area | In buffer area only |
| Tursiops aduncus | | | |
| Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418] | | Species or species habitat likely to occur within area | In buffer area only |
| Tursiops truncatus s. str. | | | |
| Bottlenose Dolphin [68417] | | Species or species habitat may occur within area | In buffer area only |

Extra Information

Cudgen Nature Reserve

| State and Territory Reserves | | | [Resource Information] |
|------------------------------|----------------|-------|------------------------|
| Protected Area Name | Reserve Type | State | Buffer Status |
| Cudgen | Nature Reserve | NSW | In buffer area only |

| Regional Forest Agreements | [Resource Information] |
|---|------------------------|
| Note that all areas with completed RFAs have been include for specific caveats and use limitations associated with RFA | |
| • | |

| RFA Name | State | Buffer Status |
|-------------------------------|----------------|------------------------|
| North East NSW RFA | New South Wale | s In feature area |
| | | |
| Nationally Important Wetlands | | Resource Information] |
| Wetland Name | State | Buffer Status |

NSW

In buffer area only

| EPBC Act Referrals | | | [Resou | rce Information |
|--|-----------|--------------------------|-------------------|------------------------|
| Title of referral | Reference | Referral Outcome | Assessment Status | Buffer Status |
| Kings Forest Residential Development | 2012/6328 | | Post-Approval | In buffer area only |
| Controlled action | | | | |
| <u>Tugun Bypass</u> | 2004/1861 | Controlled Action | Post-Approval | In buffer area only |
| <u>Tugun Bypass Four-Iane Dual</u> <u>Motorway</u> | 2003/1122 | Controlled Action | Completed | In feature area |
| Not controlled action | | | | |
| construction of two sports fields, car park, amenities block and access road fro | 2004/1376 | Not Controlled Action | Completed | In feature area |

| Title of referral | Reference | Referral Outcome | Assessment Status | Buffer Status |
|--|-----------|--------------------------|-------------------|------------------------|
| Not controlled action | | | | |
| Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia | 2015/7522 | Not Controlled Action | Completed | In feature area |
| Koala Beach Estate -Stage 7 | 2003/1306 | Not Controlled Action | Completed | In feature area |
| Koala Beach Estate Stages 5 & 6 | 2003/961 | Not Controlled Action | Completed | In buffer area only |
| <u>Koala Beach Residential Estate -</u> Stages 3 & 4 | 2001/465 | Not Controlled Action | Completed | In buffer area only |
| Tourist resort and public recreation area | 2002/805 | Not Controlled Action | Completed | In buffer area only |
| Referral decision | | | | |
| <u>Breeding program for Grey Nurse</u> <u>Sharks</u> | 2007/3245 | Referral Decision | Completed | In buffer area only |

| Biologically Important Areas [Resource Information] | | | | |
|---|--------------|-----------------|---------------------|--|
| Scientific Name | Behaviour | Presence | Buffer Status | |
| Dolphins | | | | |
| Sousa chinensis | | | | |
| Indo-Pacific Humpback Dolphin [50] | Foraging | Likely to occur | In buffer area only | |
| | | | | |
| Tursiops aduncus | | | | |
| Indo-Pacific/Spotted Bottlenose Dolphin [68418] | Breeding | Likely to occur | In buffer area only | |
| | | | | |
| Marine Turtles | | | | |
| Caretta caretta | | | | |
| Loggerhead Turtle [1763] | Internesting | Likely to occur | In buffer area only | |
| | | | | |
| Caretta caretta | | | | |
| Loggerhead Turtle [1763] | Nesting | Known to occur | In buffer area only | |
| | | | | |
| Seabirds | | | | |
| Ardenna carneipes | | | | |
| Flesh-footed Shearwater [82404] | Foraging | Known to occur | In buffer area only | |

| Procellaria parkinsoni Black Petrel [1048] | Foraging | Likely to occur In buffer area only |
|---|----------|-------------------------------------|
| Sharks | | |
| Carcharias taurus | | |
| Grey Nurse Shark [64469] | Foraging | Known to occur In buffer area only |

Whales

| Scientific Name | Behaviour | Presence | Buffer Status |
|------------------------|-----------------------------------|----------------|---------------------|
| Megaptera novaeangliae | | | |
| Humpback Whale [38] | Migration (north and south) | Known to occur | In buffer area only |

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.

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Appendix C – Photographs

Plate C.1 Site photographs













































Appendix D – Flora and Fauna Inventory

| Scientific Name | Common Name | BC Act | EPBC Act |
|-----------------------------|--------------------------------|--------|----------|
| Bangalow Palm | Archontophoenix cunninghamiana | - | - |
| Basket Grass | Oplismenus imbicillis | - | - |
| Billygoat Weed* | Ageratum houstonianum | - | - |
| Black She-oak | Allocasuarina littoralis | - | - |
| Blackbutt | Eucalyptus pilularis | - | - |
| Blady Grass | Imperata cylindica | - | - |
| Blue Flaxlily | Dianella caerulea | - | - |
| Blueberry Ash | Elaeocarpus reticulatus | - | - |
| Bracken Fern | Pteridium esculentum | - | - |
| Broad-leaf Paspalum* | Paspalum mandicanum | - | - |
| Broad-leafed Paperbark | Melaleuca quinquenervia | - | - |
| Broad-leafed White Mahogany | Eucalyptus carnea | - | - |
| Broad-leafed White Mahogany | Eucalyptus carnea | - | - |
| Butterfly Milkweed* | Asclepias tuberosa | - | - |
| Camphor Laurel* | Cinnamomum camphora | - | - |
| Cheese Tree | Glochidion ferdinandi | - | - |
| Cobblers Peg* | Bidens pilosa | - | - |
| Cockspur | Maclura chonchichinensis | - | - |
| Cockspur Flower | Plectranthus parviflorus | - | - |
| Cocos Palm* | Syagrus romanoffiana | - | - |
| Common Silk Pod | Parsonsia straminea | - | - |
| Dandelion* | Taraxacum officinale | - | - |
| Eastern-grey Ironbark | Eucalyptus siderophloia | - | - |
| Fleabane* | <i>Conzya</i> spp. | - | - |
| Forest Oak | Allocasuarina torulosa | - | - |
| Geebung | <i>Persoonia</i> spp. | - | - |
| Giant Devil's Fig* | Solanum chrysotrichum | - | - |
| Golden Flowered Salwood | Acacia aulacocarpa | - | - |
| Guniea Flower | Hibbertia scandens | - | - |
| Hairy-leaved Doughwood | Melicope micrococca | - | - |
| Headache Vine | Clematis glycinoides | - | - |
| Inkweed* | Phytolacca octandra | - | - |
| Kangaroo Grass | Thmeda triandra | - | - |
| Kikuya* | | - | - |
| Lantana* | Lantana camara | - | - |
| Macaranga | Macaranga tanarius | - | - |
| Maiden's Wattle | Acacia maidenii | - | - |
| Mat-rush | Lomandra longifolia | - | - |
| Mickey Mouse Plant* | Ochna serrulata | - | - |
| Migeon Berry | Austromyrtus dulcis | - | - |



| Scientific Name | Common Name | BC Act | EPBC Act |
|------------------------|-----------------------------|------------|----------|
| Native Passionfruit | Passiflora aurantia | - | - |
| Native Violet | Violet banksii | - | - |
| Oxalis* | Oxalis sp. | - | - |
| Pademelon Grass | Ottolochoa gracillima | - | - |
| Pink Bloodwood | Corymbia intermedia | - | - |
| Pointed Aneilema | Aneilema acuminatum | - | - |
| Poison Peach | Trema tomentosa | - | - |
| Purple Coral Pea | Hardenbergia violaceae | - | - |
| Red Ash | Alphitonia excelsa | - | - |
| Red Bloodwood | Cormybia gummifera | - | - |
| Rough Saw-sedge | Gahnia aspera | - | - |
| Rusty Tick-trefoil | Desmodium rhytidophyllum | - | - |
| Sally Wattle | Acacia melanoxylon | - | - |
| Sarspirilla | Smilax australis | - | - |
| Rainforest Cassia | Senna acclinis | Endangered | - |
| Senna* | Senna pendula var. glabrata | - | - |
| Settler's Flax | Gymnostachyos anceps | - | - |
| Sida* | Sida rhombifolia | - | - |
| Silver-leaf Desmodium* | Desmodium uncinatum | - | - |
| Small-fruited Grey Gum | Eucalyptus propinqua | - | - |
| Snake Orchid | Cymbidium suave | - | - |
| Snake vine | Stefania japonica | - | - |
| Soft Twig-rush | Machaerina subiginosa | - | - |
| Southern Trick-trefoil | Desmodium gunnii | - | - |
| Spotted Gum | Corymbia maculata | - | - |
| Square-stemmed Sedge | Lepidosperma laterale | - | - |
| Stinkweed | Opercularia diphylla | - | - |
| Strangler Fig | Ficus watkinsiana | - | - |
| Swamp Doc* | Rumex brownii | - | - |
| Syngonium | | - | - |
| Tallowwood | Eucalyptus microcorys | - | - |
| Thistle* | Cirsium vulgare | - | - |
| Three-leaf Water Vine | Tetrastigma nitens | - | - |
| Trad* | Tradscantia albiflora | - | - |
| Tropical Chickweed* | Drymaria cordata | - | - |
| Turpentine | Syncarpia glomulifera | - | - |
| Unbrella Tree* | | - | - |
| Wattle Mat-rush | Lomandra filiformis | - | - |
| White Root | Lobelia purapescens | - | - |
| Willow Bottlebrush | Melaleuca saligna | - | - |
| Wiry Panic | Entolasia stricta | - | - |
| Wombat Berry | Eustrephis latifolius | - | - |
| Yellow Twin Heads | Eclipta platyglossa | - | - |
| | <i>Doodia</i> spp. | - | - |
| | Adiantum spp. | - | - |
| | <i>Nymphaea</i> spp. | - | - |
| | · | • | • |



| Scientific Name | Common Name | BC Act | EPBC Act |
|-----------------|---------------------|--------|----------|
| | Solanum | - | - |
| | <i>Cyperus</i> spp. | - | - |

*Priority Weed/Exotic, CE = Critically Endangered; E = Endangered and V = Vulnerable

Table D. 0.2 Fauna Records

| Scientific Name | Common Name | BC Act | EPBC Act |
|-----------------------|--------------------------|--------|----------|
| Cacatua galerita | Sulphur-crested Cockatoo | - | - |
| Corvus orru | Torresian crow | - | - |
| Crinia signifera | Common Eastern Froglet | - | - |
| Dacelo novaeguineae | Laughing Kookaburra | - | - |
| Heteronympha mirifica | Wonder Brown | - | - |
| Eurema lisa | Little Yellow | - | - |
| Gymnorhina tibicen | Australian Magpie | - | - |
| Porphyrio porphyrio | Purple Swamphen | - | - |
| Strepera graculina | Pied Currawong | - | - |
| Wallabia bicolor | Swamp Wallaby | - | - |
| Zosterops lateralis | Silvereye | - | - |

*Introduced species, CE = Critically Endangered; E = Endangered, V = Vulnerable, C=CAMBA, J=JAMBA & K = ROKAMBA **Observation type:** W=Heard, O= Observed, S=Scats & T=Tracks.



Appendix E- NSW Biodiversity Values Mapping







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