28°S

ENVIRONMENTAL

PLANS AND DOCUMENTS referred to in the PDA **DEVELOPMENT APPROVAL**

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Old Pub Lane Commercial Precinct, Greenbank

Ecological Assessment Report



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1 Introduction

1.1 Background

28 South Environmental Pty Ltd (28 South) was engaged by Old Pub Lane Pty Ltd (the Applicant), to advise on ecological and environmental planning matters regarding the expansion of the existing Swim School at 43-47 Old Pub Lane, Greenbank. The Development Application (DA) is for a Preliminary Approval for Material Change of Use (MCU) to vary the effect of the Greater Flagstone Priority Development Area (PDA) Development Scheme (Development Scheme) in accordance with the proposed Masterplan. The property is more properly described as Lot 1 on RP184067 and is a total of 2.01 hectares (referred to herein as 'the Site'). The Site is located within the Logan City Council (LCC) Local Government Area (LGA) and also falls within the northern component of the Greater Flagstone PDA. The locality and context of the Site is illustrated in Attachment 1 and 2.

The Masterplan of Development is for Health Care Services, Business (Vet), Warehouse (Self-Storage Facility), Shop (Pet supplies shop), Child Care Centre and Indoor Sport and Recreation (Gym and Swim School) (referred to herein as the 'Old Pub Lane Commercial Precinct'). Collectively, the development subject to the DA constitutes the "proposed development" for the context of this report. A 30m wide buffer from the western boundary will be retained as part of the proposed development. It is understood that this component of the Site will be subject to land resumption by the Department of Transport and Main Roads and/or Queensland Rail for future rail corridor realignment works. The proposed Masterplan is included in Attachment 3. The character of the areas proposed for development is shown in Plates 1 – 26. The extent and layout of the proposed development was informed through consideration of multiple factors, including the results of desktop and on-ground ecological and environmental planning investigations. The ecological investigations were undertaken in parallel with other relevant studies (e.g. economic, engineering, traffic etc.) to define the proposed Gross Floor Area (GFA) associated with the Old Pub Lane Commercial Precinct and its associated volume of carparking.

1.2 Planning Context

The Site is located within the northern component of the Greater Flagstone PDA and is therefore subject to the provisions of the Development Scheme rather than the LCC Planning Scheme. The Site is zoned within the Development Scheme as an Urban Living Zone; close to the identified "Potential Rail Station" located in the far north of the PDA. The Site falls outside of any community greenspace network mapping; biodiversity corridors or potential greenspace areas as illustrated in Map 4 of the Development Scheme (**Attachment 4**). The Site is proximate to areas mapped as supporting "Vegetation" on Map 6 – Natural Values of the Development Scheme (**Attachment 5**); however, does not appear to support this mapping within the Site or other mapping overlays within Map 6 – Natural Values. The western component of the Site, adjacent to the Interstate Railway corridor, is mapped as being within a Rail Buffer Area on Map 7 – Development Constraints (**Attachment 6**). No other Development Scheme constraints are mapped within the Site.

Within the Urban Living Zone, the proposed development is considered to be permissible development under Table 2: Levels of Assessment of the Development Scheme.

In addition to the Development Scheme, the proposed development is subject to environmental planning legislation and policy at the Commonwealth and State levels.

1.3 Purpose of this Report

The purpose of this Ecological Assessment Report (**EAR**) is to provide an assessment of the proposed development against relevant ecological and environmental planning legislation, policies and instruments at the Commonwealth, State and Development Scheme levels. The EAR achieves this through:

- i) desktop assessments;
- ii) field studies (methodology and results);

¹ The PDA Development Scheme map is difficult to review at the scale provided in Map 6; however, the mapped "Vegetation" appears to align with mapped regulated vegetation to the north of the Site.

- iii) determination of potential impacts of the proposed development on ecological features within and adjoining the Site
- iv) assessment against the *Environment Protection and Biodiversity Conservation Act* 1999 (**EPBC Act**);
- v) assessment against the *Nature Conservation Act 1992* (**NC Act**);
- vi) assessment against the Development Scheme and associated environmental guidelines including:
 - a. Environmental values and sustainable resource use PDA Guideline No. 14;
 - Remnant vegetation and koala habitat obligations in Greater Flagstone and Yarrabilba PDAs – PDA Guideline No. 17; and
 - c. Development interfaces PDA Guideline No. 18
- vii) a method 1 bushfire risk assessment of the proposed development;
- viii) recommendations for measures to avoid, minimise and mitigate potential impacts of the proposed development on environmental values within the Site.

This EAR is intended to form part of the overall package of material to support the proposed Masterplan. This EAR is not to be relied upon by any other party for commercial purposes. All parts of this EAR are to be read together, including attachments and figures. Further detail on other technical elements of the proposed DA can be found in the corresponding technical reports accompanying the Applicant's submission to Economic Development Queensland (EDQ).

This EAR considers historical clearing events and agricultural practices within the Site and takes into consideration potential impacts on Matters of National Environmental Significance (MNES) and Matters of State Environmental Significance (MSES) as well as temporally relevant policies, guidelines and codes.

1.4 Historical Context

The Site and the broader locality have been subject to extensive broadscale clearing and/or vegetation thinning in recent decades as illustrated in **Attachment 7**. A review of historical aerial photography from 1955 to 2019 identifies the following:

- In 1955 photography it is evident that the Site was well vegetated, with Pub Lane
 occurring as an unsealed access road without the curved deviation created for the
 Sydney-Brisbane (Interstate) rail overpass which now exists. Properties to the south
 and east of the Site were by this stage subject to broadscale historical clearing.
- In 1970 photography it is evident that Site remained well vegetated with the general locality being subject to further broadscale clearing; particularly to the north-west of the Site. Pub Lane remained an unsealed access road.
- In 1982, photography indicates evidence of selective clearing in the eastern portion of the Site and adjoining the Site to the north-east. Intersecting with Pub Lane, Lance Road was established and extended south/south-west, with a number of residential dwellings being built south of the Site. The broader area surrounding the Site was subject to further clearing. Notably, south of the Site a large powerline easement was established, traversing the locality from north-west to south-east. Pub Lane remained as an unsealed access road.
- In 1993 photography it is evident that the existing residential dwelling had been established within the Site. Additionally, the property adjoining to the north was subject to broadscale clearing and selective thinning. Pub Lane was predominantly sealed. Though the rail overpass had not been established, the Pub Lane deviation was largely cleared along the northern boundary of the Site. Generally surrounding the Site to the north and south, residential development was further consolidating.
- In 2002 photography it is evident that the curved deviation for Pub Lane to the north of
 the Site was established to accommodate the rail overpass. The immediate locality of
 the Site appeared to be regenerating with dense regrowth and scattered relict trees
 evident. Significant vegetation thinning was evident in the land west of the Site, with
 numerous pockets of residential development.

- In 2009 photography it is evident that the Site remains vegetated. The immediate locality had undergone further broadscale clearing and bulk earthworks, particularly to the north-east for the establishment of the Greenbank Shopping Centre complex and to the north-west for residential development (now heavily consolidated throughout the area). A second high-voltage powerline easement is shown to the north of the previously-existing easement, turning to the north and passing close to the Site's western boundary.
- The most recent aerial imagery (2014, 2018) illustrates the establishment of the existing swim school building and associated carpark. Elsewhere within the Site, vegetation is retained and allowed to regenerate from the 1980s clearing event. The broader locality remains reflective of 2009 photography with the exception of further earthworks to the north-west for a residential subdivision and to the east adjoining Teviot Road for the 'Everleigh' estate.

2 Statutory Environmental Matters for Consideration

Ecological values and ecologically important areas for the proposed development have been defined with reference to Commonwealth and State environmental legislation, as well as the provisions of the Development Scheme. A summary of relevant statutory considerations is provided below.

2.1 Environment Protection and Biodiversity Conservation Act 1999

The *Environment Protection and Biodiversity Conservation Act 1999* (**EPBC Act**) provides the legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places. These are defined under the EPBC Act as 'Matters of National Environmental Significance' (**MNES**). Under the EPBC Act, a referral to the Department of the Environment and Energy (**DoEE**) is required if the proposed development gives rise to a Significant Impact on any MNES. The determination of whether a Significant Impact will arise is made with reference to the MNES Significant Impact Guidelines 1.1 (DoE 2013)² and other EPBC Act policy statements.

A search of the Protected Matters Search Tool (**PMST**) indicates the likely or potential occurrence of MNES in the locality (**Attachment 8**). A search of the Department of Environment and Science (**DES**) Wildlife Online database provides confirmed records of MNES within the same search radius (**Attachment 9**).

2.2 Nature Conservation Act 1992

The *Nature Conservation Act 1992* (**NC Act**) established approval triggers and an assessment process for clearing protected plants. The Site is not located within a mapped "High Risk Trigger Area" (**Attachment 10**). Despite this, a detailed botanical survey was undertaken on 27 November 2018 to identify the presence of protected plants and/or suitable habitat within the Site.

² Including significant impact guidelines for individual threatened species, groups of species and threatened ecological communities (refer http://www.environment.gov.au/epbc/publications/guidelines.html).

Potential impacts to fauna species listed under the *Nature Conservation (Wildlife) Regulation* 2006 (**NC Reg**) will require assessment for any residual impacts associated with the Old Pub Lane Commercial Precinct.

2.3 Matters of State Interest

Environmental matters of State interest relevant to the Development Scheme are discussed in the following sections.

2.3.1 Greater Flagstone and Yarrabilba – Viable Remnant Vegetation

A review of the Regulated Vegetation Management Map (**RVMM**) and Vegetation Management Supporting Map (**VMSM**) indicates that the Site is entirely mapped as Category X vegetation (**Attachment 11**), with no remnant vegetation existing within the Site.

2.3.2 Guideline 14 – Environmental Values and Sustainable Resource Use

PDA Guideline No. 14 *Environmental Values and Sustainable Resource Use* (**Guideline 14**) outlines values and strategies for protecting the environment and optimising resource use in PDAs. Guideline 14 requires development within a PDA to consider relevant Commonwealth and State Government environmental legislation and planning policies in addition to areas noted as being of environmental significance within the PDA's Development Scheme and the inherent environmental values identified within the Site through ecological assessments.

2.3.3 Guideline 17 – Greater Flagstone and Yarrabilba – Koala Habitat

PDA Guideline No. 17 Remnant vegetation and koala habitat obligations in Greater Flagstone and Yarrabilba PDAs (**Guideline 17**) outlines the obligations for development which will result in the clearing of "koala habitat"; areas identified as Koala Bushland or High and Medium Value Rehabilitation Habitat under the State Planning Policy 2/10 (**SPP**) Koala Habitat Value Mapping (Koala Habitat Mapping).

The Koala Habitat Mapping (**Attachment 12**) shows that the Site is mapped as Medium Value Rehabilitation Habitat. An assessment of the proposed development against Guideline 17 is provided in **Section 7.3**.

2.3.4 Guideline 18 – Development Interfaces

PDA Guideline No. 18 *Development Interfaces* (**Guideline 18**) outlines the development considerations which should inform the planning and design phase of a project to ensure that potential impacts are reduced to an acceptable level through the PDA. Development should consider ecological values at the land use interface and be informed by an ecological assessment.

2.3.5 Bushfire

The proposed development will require assessment of bushfire hazards as the western extent of the Site is mapped within the Potential Impact Buffer on the State Planning Policy Natural Hazards Risk and Resilience mapping (**Attachment 13**). It is noted that no Potential Bushfire Intensity Mapping occurs within the Site.

A bushfire risk assessment is provided in **Section 5** of this EAR.

3 Flora Assessment

3.1 Desktop Assessment and Survey Methods

The Site is located on sedimentary deposits of early Jurassic age and is situated on relatively flat topography, falling slightly from east to west. The pre-clear Regional Ecosystem (**RE**) mapping shows that the Site historically supported a mix of REs 12.9-10.2/12.9-10.12/12.9-10.7 at a ratio of 50/30/20 respectively. These REs are described by DES as being:

- Least Concern RE 12.9-10.2: 'Corymbia citriodora subsp. variegata open forest or woodland usually with Eucalyptus crebra. Other species such as Eucalyptus tereticornis, E. moluccana, E. acmenoides and E. siderophloia may be present in scattered patches or in low densities. Understorey can be grassy or shrubby. Shrubby understorey of Lophostemon confertus (whipstick form) often present in northern parts of bioregion. Occurs on Cainozoic and Mesozoic sediments';
- Endangered RE 12.9-10.12: 'Corymbia intermedia, Angophora leiocarpa, Eucalyptus seeana +/- E. siderophloia, E. tereticornis, E. racemosa subsp. racemosa, C. citriodora subsp. variegata woodland to open forest. E. seeana and Lophostemon suaveolens are often present as sub-canopy or understorey trees. Occasional Melaleuca quinquenervia on lower slopes. Does not include areas dominated by Eucalyptus racemosa subsp. racemosa. Occurs on Cainozoic and Mesozoic sediments'; and
- Of Concern RE 12.9-10.7: 'Eucalyptus crebra +/- E. tereticornis, Corymbia tessellaris, Angophora leiocarpa, E. melanophloia woodland. Occurs on Cainozoic and Mesozoic sediments'.

The PMST data (**Attachment 8**) indicates the potential occurrence of MNES plant communities and species in this locality. The Wildlife Online data also indicates confirmed records of Endangered, Vulnerable and Near Threatened (**EVNT**) species in the locality (**Attachment 9**). Conservation-significant species identified by these database searches were targeted during Site surveys.

Baseline botanical assessment was undertaken by ecologist Rebecca Freese of 28 South on 27 March 2019. Weather conditions were considered adequate for the level of ecological assessment undertaken. Surveys involved: a complete traverse of the Site; the spatial mapping of any and all significant or native habitat trees within the development area; and vegetation community and habitat assessments.

Surveys also involved an assessment to determine whether the Site:

- supported vegetation was analogous with Threatened Ecological Communities (TECs)
 identified as MNES under the EPBC Act;
- supported any plant species identified as MNES under the EPBC Act;
- was appropriately represented within the RVMM;
- supported EVNT plant species; and
- supported plant species or communities which were otherwise of conservation interest.

3.2 Survey Findings

The Site supports an existing Swim School with associated carparking as well as an existing central dwelling. The remainder of the Site is well vegetated and can be described as a single vegetation community with minor variations relating to landscaping species surrounding the house and a younger cohort in the eastern corner of the Site. The western corner of the Site contained two (2) man-made waterbodies. The western component of the Site supported disused access trails into the vegetation community.

Generally, the Site supported an open forest dominated by semi-mature to mature *Corymbia citriodora* subsp. *variegata* (spotted gum) with associated *Corymbia intermedia* (pink bloodwood), *Eucalyptus seeana* (narrow-leaved red gum) and *Angophora leiocarpa* (rusty gum) and suppressed *Corymbia tessellaris* (Moreton Bay ash) and *Eucalyptus tereticornis* (Queensland blue gum). The sub-canopy was moderately dense with *Allocasuarina littoralis* (black she-oak) dominating and *Alphitonia excelsa* (red ash) and *Acacia disparrima* (hickory wattle) also present. The shrub layer contained regenerating species of eucalypt present within the canopy as well as juvenile red ash, hickory wattle and patch incursions of *Lantana camara** (lantana). The understorey was variable. Generally, the understorey can be described as supporting native grasses and forbs such as *Imperata cylindrica* (blady grass), *Entolasia stricta* (wiry panic), *Eragrostis brownii* (Brown's love grass), *Lomandra confertifolia*

³ * denotes non-endemic or exotic plant species

subsp. pallida (a mat-rush) and Goodenia rotundifolia (star goodenia) at sparse densities. Leaf litter, particularly 'needles' from the black she-oak was prevalent in some areas. Patch infestations of pest plant species occurred in areas of historical disturbance such as near the two waterbodies, along each Site boundary adjoining the road and rail reserves and in proximity to the existing dwelling. Pest plant species included but were not limited to Lantana montevidensis* (creeping lantana), lantana*, Asparagus aethiopicus cv. Sprengeri* (basket asparagus), Asparagus plumosus* (feathered asparagus), Megathyrsus maximus var. plubiglumis* (green panic), Chloris gayana* (rhodes grass) and Callisia repens* (inch weed). A flora species list collected during Site inspection is provided in Attachment 14. The existing condition of the Site is illustrated in Plates 1 – 26.

3.3 Threatened Flora and Vegetation Community Searches

The EPBC Act PMST (**Attachment 8**) indicates the potential occurrence of four TECs within the Site:

- Coastal Swamp Oak (Casuarina glauca) Forest;
- Lowland Rainforest of Subtropical Australia;
- Swamp Tea-tree (Melaleuca irbyana) Forest; and
- White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland.

Surveys failed to record these communities or any other TECs listed under the EPBC Act. Many of these communities occur almost exclusively on specific geologies/soils or within rainforest habitat and would be highly unlikely to occur at the Site. Surveys also failed to record any species listed as MNES under the EPBC Act, or any EVNT species listed under the NC Act.

4 Fauna Habitat Assessment

4.1 Survey Methods

Database searches revealed the occurrence of several conservation-significant species in the locality (**Attachments 8** and **9**). Surveys included a detailed walk-through of the Site, assessment of all vegetation supported within and immediately adjoining the Site for habitat features important to species of conservation significance and active searches for fauna species or their evidence (such as koala and other scansorial fauna).

Habitats were qualified based on the presence of the following habitat features:

- vegetation cover and structure;
- size and range of arboreal and terrestrial hollows;
- woody debris and leaf litter;
- · rocky outcrops, overhangs and crevices;
- freestanding natural and anthropogenic water bodies, ephemeral drainage or seepage areas;
- disturbances including weed incursion, clearing and/or inappropriate fire regimes; and
- surrounding habitats and connectivity or fragmentation to these.

The quality of habitat persisting within the Site was assessed based on several criteria which are outlined within **Table 1**.

Table 1: Habitat Quality Criteria

Rating	Description of Habitat
Low	Many fauna habitat elements in low quality areas have been removed or altered such as mature, hollow bearing trees, fallen timber and deep leaf litter. For terrestrial habitats remnants are often small in size, support substantial weed infestations and are poorly connected to other areas of remnant vegetation. For aquatic habitats these may be waterways that have been de-snagged and riparian vegetation removed, or constructed drains.

Rating	Description of Habitat
Moderate	Some habitat components are present but others are lacking. For terrestrial habitats an example is remnant vegetation may have a reasonably intact understorey but lack fallen timber and hollow bearing trees. Linkages with other remnant habitats in the landscape may be lacking or somewhat tenuous. For aquatic habitats these may be semi-natural streams (including artificial channels and wetlands) with varying degrees of overhanging and instream vegetation with some snags and connectivity.
High	Most habitat components are present. For terrestrial habitats, habitats with old-growth trees, fallen timber, lack of weeds, the remnant is large enough to support forest dependant species and is well connected or contiguous with other areas of native vegetation. Habitat features such as rocky outcrops, steep jumps and areas supporting caves provide significant habitat features for a great many fauna species persisting within arid areas. For aquatic habitats these are natural water bodies (or water bodies designed along natural ecological functioning principles) with a high degree of in-stream and riparian features and good connectivity.

4.2 Rural and Current Landscape Context

Since settlement, the Site and surrounding areas have been and continue to be subject to a variety of agricultural and urban activities. These impacts have resulted in most of the surrounding properties and the Site being subject to broadscale clearing or selective thinning at some point; many of which include complete under-scrubbing of properties to support grazing or lawns. These historical clearing events and agricultural management practices, including inappropriate fire regimes, have resulted in the distinct lack of many important habitats and microhabitat features which are likely to have been present prior to these anthropogenic activities.

More recently, the broader locality has experienced the establishment of large residential subdivisions. Many of the subdivisions, particularly to the north, west and south-west of the Site have retained corridors along lower drainage features which provide connectivity for mobile and robust fauna species. Development to the east of the Site, particularly the 'Everleigh' estate, road, rail and powerline infrastructure has significantly fragmented ecological connectivity within the immediate locality (**Attachment 1**).

The Site itself forms part of a peri-urban fragmented landscape comprising rural-residential lifestyle allotments which support a mixture of modified vegetation communities, maintained

paddocks and landscaped gardens within large expanses of more contemporary suburban estates and commercial precincts.

4.3 Survey Findings

4.3.1 Fauna Habitat – General

The ground-truthed vegetation communities are mapped in **Attachment 15**. Vegetation and habitat surveys conducted over the Site identified that the Site supports medium to low quality habitat, primarily due to historic broadscale clearing, disturbance from rural residential activities and fragmentation of the immediate landscape as a result of infrastructure and development. The eastern components of the Site were noted as a younger cohort of vegetation likely to have regenerated from a historical clearing event evident in historical photography from 1982. There were no significant habitat trees or mature native canopy evident within this portion of the Site and the understorey contained significant infestations of pest plant species.

The western component of the Site supported more mature vegetation with a number of emergent eucalypts. However, this community demonstrated a distinct lack of habitat features such as hollow-bearing habitat trees or hollow logs. The south-western corner of the Site supported several large Queensland blue gums. Despite the significant size of these trees, there were no obvious hollows within canopy or the trunk. This western component of the Site did offer a level of habitat complexity and vegetative structure and also contained woody debris, leaf litter, small termitaria and two man-made waterbodies. However, such features are likely to be relatively common throughout the immediate landscape.

It is expected that the vegetation throughout the Site provides foraging and resources for locally common, more robust fauna species; particularly open country avifauna, flying mammal and common possum and glider species. Throughout the Site, numerous smooth-barked trees indicated scratch-marks of locally-common arboreal mammals. Despite this, it is considered that the Site does not support critical habitats for species of conservation significance.

4.3.2 Fauna Habitat – Koala

Surveys were conducted with the aim of assessing the vegetation communities present and their relevance to koala within the locality and Site. Surveys initially traversed the entire Site to provide an understanding of vegetation communities supported on the Site as well as the presence and extent of non-juvenile koala habitat trees (**NJKHTs**). Surveys involved the identification and mapping of vegetation communities which supported varying levels of NJKHTs; as well as visual scanning of trees for koala presence and evidence such as scratches and scats.

The surveys did not result in the discovery of koala evidence within the Site; however, a lack of evidence does not preclude koalas from utilising the Site to some degree, given the presence of NJKHTs and considering that koalas are known from the locality.

5 Bushfire Risk Assessment

5.1 Within the Site

The proposed development will result in the removal of most vegetation within the Site, with the exception of a 30 m wide corridor along the western verge (this will be subject to removal at some point to accommodate expansion of the Interstate Railway corridor). The retained area will total 4,206 m² and at 30 m in width, the area meets the exclusion criteria for the CSIRO's small patch and narrow corridor filters and is appropriately separated from hazardous vegetation to the west. Under patch and corridor filters, the 30 m wide vegetation buffer is considered a non-bushfire hazard class (i.e. potential bushfire intensity < 4000 kW/m) in a planning context as it is less likely to ignite due to its disconnection with continuous areas of forest fuels that can carry running fire fronts. If ignited, it is most likely to be ignited by a point ignition which requires both distance and area to develop into a fire front of considerable hazard. If a fire emerges from the 30 m wide vegetation buffer it is likely to be narrow in width and significantly less in intensity than a fire front which has had more time and a larger area to develop. As such, this western area of retained vegetation is considered a low potential bushfire hazard in a planning context. Consequently, no credible bushfire risk will arise from within the Site.

5.2 External to the Site

To review the residual on-ground bushfire hazard applicable to the areas adjoining the Site as depicted by the SPP mapping, an inspection of the Site and surrounding area was undertaken by 28 South; this involved a visual inspection of lands within 100m of the Site. Bushfire risk assessments have been undertaken utilising Method 1 of AS3959-2009 as well as an assessment of Bushfire Attack Levels (BAL). An assessment of this vegetation utilising Method 1 calculates the BAL setback distances associated with the vegetation and the vegetation's topographical circumstance in relation to the Site. Each BAL category has been assigned specific construction parameters which align with the likely radiant heat flux a building may receive during a bushfire event.

Setbacks to hazardous vegetation adjoining the Site are:

• BAL Flame Zone - 0-6m;

- BAL 40 6-9m;
- BAL 29 9-13m;
- BAL 19 13-19m;
- BAL 12.5 19-100m; and
- BAL Low 100m +.

In-field assessments identified that the vast majority of the areas surrounding the Site occur as maintained low threat vegetation or non-vegetated areas (AS3959-2009) with the exception of vegetation to the west of the Interstate Railway corridor. This confirms the general accuracy of the SPP Bushfire Hazard mapping (**Attachment 13**). An assessment of this vegetation west of the railway line confirmed it to be analogous with spotted gum/ironbark woodland (consistent with the Regulated Vegetation mapping to the south-west, showing RE 12.9-10.2). This vegetation occurs upslope of the Site and over an effective slope of 7% (or 4 degrees) and separated by the existing Interstate Railway corridor.

At its closest point, the hazardous vegetation is 64.3 m from the proposed development (**Attachment 16**). Most of the proposed development achieves a minimum separation of 100 m (BAL-LOW), with only the warehouse building being within BAL 12.5 (**Attachment 16**), which is considered appropriate for this development type. Mitigating measures applicable to the Site include:

- the Site being supplied with reticulated water;
- limited exposure of pedestrian and public vehicular access to areas between the buildings and hazardous vegetation; and
- areas between the vegetation and buildings accessible to firefighting appliances and personnel.

The proposed development has numerous points for access and egress, all allowing people vacating the Site to move in a direction away from potentially hazardous vegetation.

It is our assessment that bushfire risk remains relatively low across the Site, due to:

- the only applicable fire threat occurs off Site;
- the orientation and aspect of hazardous vegetation is to the west, with an easterly aspect and higher topography;
- the significant amount of vehicular access surrounding the fire threat;
- the positioning of the Interstate Railway corridor between the Site and the hazardous vegetation;
- the likely high-use of the Site by members of the public to detect fire and alert authorities;
- the proposed development being serviced by reticulated water; and
- public access being restricted from areas between bushfire hazard and buildings.

Notwithstanding this, AS3959-2009 requires all the portions of the proposed development between 19-100m being constructed to BAL 12.5 standard.

It is considered that the proposed development and its temporary inhabitants are not placed at an unacceptable level of risk. Further, the mitigation measures identified above can reduce the likelihood of impacts from bushfire hazards⁴.

5.3 State Planning Policy

With regard to Part E of the State Planning Policy, it is considered that the proposed development:

avoids or mitigates the risks of bushfire hazard within the Site to an acceptable level;

⁴ 28 South considers it likely that a Method 2 bushfire risk assessment by a qualified bushfire consultant would result in no BAL measures being required for the proposed development.

- does not unduly burden emergency services and their response to bushfire events as
 it provides direct sealed road access to areas of hazardous vegetation and
 infrastructure;
- does not increase the severity of bushfire hazard within the Site or adjoining it;
- avoids risks to public safety and environmental harm from bushfire hazard; and
- maintains natural processes such that vegetated corridors and waterway features have been retained where practicable while mitigating risks associated with bushfire hazard.

6 Impacts and Mitigation

6.1 Design Consideration and Vegetation Impacts

The proposed development involves the establishment of the Old Pub Lane Commercial Precinct expanding on the existing Swim School with a Health Care Service, Vet, Self-Storage Facility, Pet supplies shop and Child Care Centre with associated internal access and carparking. New vehicular access points to the commercial precinct will be established along both Old Pub Lane and Pub Lane to the north. It is understood that a 30m wide buffer from the western boundary will be retained as part of this DA (**Attachment 3**), and that this component of the Site will be subject to land resumption by the Department of Transport and Main Roads and/or Queensland Rail for future Interstate Railway corridor realignment works. **Attachment 15** indicates the extent of the development footprint and the resulting impact to the vegetation currently supported within the Site. This totals approximately 1,270 m² of the native vegetation for removal. No flora species of conservation significance will be removed as a result of the proposed development.

6.2 Habitat Impacts

6.2.1 General

The proposed development will not result in the removal of the several large Queensland blue gums observed in the south-western corner of the Site. Additionally, the higher quality habitats supported within the 30m wide western buffer will be retained as a result of this proposed development.

The habitats observed throughout the Site are expected to be common throughout the immediate locality. As such, the proposed development is unlikely to give rise to any significant impact on species of conservation significance. A level of connectivity will be maintained with the retention of the western 30m buffer.

6.2.2 Koala Habitat

It is considered that the establishment of the Old Pub Lane Commercial Precinct is unlikely to give rise to significant impacts to koala populations within the locality ⁵. The proposed development will result in clearing of 1,602 m² of Medium Rehabilitation Habitat Mapping within the Site. It is considered that the proposed development:

- is unlikely to cause significant levels of fragmentation to koalas within the locality.
 The proposed development will result in the removal of semi-mature and regrowth
 vegetation which is currently surrounded on all boundaries by significant ecological
 impediments. The presence of these existing impediments have resulted in
 fragmentation of medium to low quality habitats supported within the Site and the
 proposed development will not create any further significant fragmentation.
- is unlikely to cause a significant restriction in the ability for koalas to move through the landscape. It is unlikely that koalas would rely on the lower quality habitats supported within the Site, particularly given the lack of permeability for koalas through the Site due to existing barriers.
- will be appropriately designed to mitigate secondary impacts to surrounding habitat that may be attributable to bushfire and hydrological factors.

An assessment of the proposed development against the EPBC Act referral guidelines has identified that the action is unlikely to give rise to a significant impact to koala and as such no self-assessable referral to the DoEE is deemed necessary (refer **Section 7.1**).

6.3 Mitigation Measures

Due to the nature of the proposed development being for a commercial precinct, an extensive GFA is required to accommodate such a use; particularly for associated car parking volumes and access. As such, retention of individual trees within the development footprint is not practicable.

⁵ With regard to the EBPC Act referral guidelines for the vulnerable koala.

Notwithstanding, the incorporation of appropriate landscaping, particularly locally endemic flora species that are koala feed species or those that flower prolifically, will offer foraging opportunities for native fauna residing within the immediate locality. The focus of landscaping should attempt to create dense connective rows of vegetation along the northern, southern and western boundaries to assist in visual amenity and limit fauna interaction within the centre area itself.

Fauna management measures such as the preparation of a fauna management plan, preclearing fauna assessments, and the use of a suitably qualified fauna spotter catcher will reduce the potential for impacts to fauna during the clearing process.

Further, the incorporation of traffic calming devices and fauna friendly speed limits during construction and operational phases should be adopted. Fauna exclusion fencing should be established along the western boundary to prevent fauna movement into the development area and possible interaction with vehicles.

7 Statutory Compliance

7.1 EPBC Act

The impacts of the Old Pub Lane Commercial Precinct are unlikely to constitute a Significant Impact on MNES (impacts will be on native vegetation over 1.27 ha which has been historically disturbed and retains limited connectivity). As such, 28 South does not consider a controlled action referral to the DoEE is necessary for the Old Pub Lane Commercial Precinct. In making this recommendation, particular consideration has been given to the koala, and the EPBC Act Koala Referral Guideline.

7.2 NC Act

No threatened flora species were found within the Site and the proposed development is unlikely to have an impact on flora species listed as MSES.

It is likely that fauna species of conservation significance may at some point fly-over, move through or infrequently forage within the Site; however, the proposed development over the Site (including clearing and the end commercial use) is unlikely to give rise to any significant impacts to MSES fauna.

Further mitigation measures such as a fauna management plan to govern works and the use of a suitably qualified fauna spotter catcher can assist in minimising and mitigating any impacts to fauna during the clearing and construction phases.

7.3 Greater Flagstone PDA

7.3.1 Significant Vegetation

The Development Scheme defines Significant Vegetation within the PDA as significant in its:

- Ecological value at local, state or national levels, including:
 - o Vegetation mapped as endangered REs;
 - Vegetation in areas identified in a ULDA guideline as requiring koala habitat offset:
- Contribution to the preservation of natural landforms;

- Contribution to the character of the landscape;
- Cultural or historical value; and
- Amenity value to the general public.

The Site does not contain any vegetation that could be deemed to be Significant Vegetation under the Development Scheme. In accordance with Schedule 1 of the Development Scheme, operational work that is the clearing of vegetation other than Significant Vegetation is considered Exempt Development.

7.3.2 Guideline 14 – Environmental Values and Sustainable Resource Use

The Applicant has given due consideration to relevant Commonwealth and State Government legislation and regulations through the design of the proposed development. The proposed development represents a sound land use planning outcome, utilising existing infrastructure and avoiding the creation of new impacts in other undeveloped areas within the locality. An assessment of the proposed development has identified that it is unlikely the proposed actions will give rise to any significant impacts to MNES or MSES. The proposed development is also relatively close to an identified Potential Rail Station within the Development Scheme. The establishment of this station would allow future employees and patrons access to public transport close to the Site.

7.3.3 Guideline 17 – Viable and Non-viable Endangered Remnant Vegetation

An assessment of the Site against the provisions and obligations of development set out within Guideline 17 has been undertaken as part of this EAR.

Ecological assessment identified that the Site does not support remnant or regrowth regulated vegetation and as such, has been appropriately omitted from the RVMM. Given this, the proposed development will not result in the clearing of viable or non-viable remnant vegetation containing endangered REs. The proposed development meets the obligations of the Guideline 17 by avoiding impacts to viable and non-viable endangered vegetation.

7.3.4 Guideline 17 – Koala Habitat

The Site is identified as being Medium Value Rehabilitation Habitat under the Koala SPP Koala Habitat Mapping. More broadly there are areas of Koala Bushland Habitat scattered through

the locality, including areas on properties immediately to the south-east of the Site and to the north (Leanne Court).

Site survey confirmed that the Site is generally mapped appropriately under the SPP Koala Habitat Mapping. The Site's lower quality habitats have been historically disturbed by historical broadscale clearing events, particularly the eastern component of the Site which now supports a younger cohort of native regrowth vegetation.

The proposed development will result in impacts to approximately 1,602 m² of Medium Value Rehabilitation Habitat. Given the nature of the proposed development, the avoidance of impacts to this Medium Value Rehabilitation Habitat is not possible. This is due to the necessary floor space required to appropriately locate commercial buildings and associated carparking at a sufficient scale to deal with the expected level of public visitation. Within the Site there are no areas where the design would facilitate the retention of individual or groups of trees.

The proposed development within the Site represents a logical land use planning outcome insofar that it consolidates impacts to areas of Medium Value Rehabilitation Koala Habitat within the region (avoids Koala Bushland Habitat) and is an expansion of the broader Greenbank commercial and retail precinct within a strategic location in the PDA (i.e. the existing Greenbank Shopping Centre is to the immediate north-east of the Site).

In accordance with the provisions of Guideline 17, the proposed development is required to address impacts to areas mapped as Medium Value Rehabilitation Koala Habitat. Consequently, it is proposed that the Applicant submits a monetary contribution as part of the MCU application that is equivalent to \$5,000 per hectare of clearing within Medium Value Rehabilitation Koala Habitat. As the proposed development ultimately results in the loss of 1.6 ha of mapped Medium Value Rehabilitation Koala Habitat, the monetary contribution would total \$8,000.

7.3.5 Guideline 18 – Development Interfaces

The proposed development represents a logical infill development within the locality as it will provide an extension to the existing Greenbank Shopping Centre complex to the north-east without the need to impact new bushland areas for development of this nature. The Site is

historically cleared, contains no significant vegetation, offers limited habitat value and displays evidence of edge effects from linear infrastructure and large-lot development in the surrounding areas. Development interfaces will remain consistent with those already existing. Landscape design should consider the inclusion of koala feed trees as landscaping trees particularly in the retained western areas of the Site between the proposed development footprint and the western boundary where possible. This will also provide a vegetated screen to the Interstate Railway corridor.

8 Summary and Conclusions

This EAR assessed the ecological and environmental planning matters applicable to the proposed development of the Old Pub Lane Commercial Precinct through statutory planning considerations and an ecological assessment of the Site. This ecological assessment has identified the ecological values supported within the Site and the impacts likely to occur should the proposed development be approved in its current layout.

No conservation-significant vegetation communities or flora species were detected during Site assessments. It is likely that more mobile and robust species would periodically visit the Site for foraging purposes; particularly avian, scansorial and flying mammal species. However, given the position of the Site in relation to the surrounding locality and ecological impediments bounding the Site, it is considered unlikely that the Site is of any significance to koalas or any other conservation-significant vegetation communities, flora or fauna species.

The Site is relatively unencumbered by Commonwealth or State ecological and environmental planning constraints. The proposed development is also consistent with relevant ecological guidelines for the Greater Flagstone PDA and ecological components of the Development Scheme. The establishment of the proposed Old Pub Lane Commercial Precinct will result in the loss of 1,270 m² of native vegetation within the Site.

It has been determined that the proposed development will not have impacts to viable or non-viable endangered remnant vegetation. The proposed development will result in a loss of 1,602 m² of Medium Value Rehabilitation Koala Habitat. A monetary contribution of \$8,000 has been proposed as part of this DA to meet the obligations set out within Guideline 17. Given the context of the surrounding development and bushland areas, the proposed development presents as a logical extension of urban development in the locality.

Photo Plates



Plate 1 – View from within western component of vegetation looking east towards existing swim school.



Plate 2 – View south-west from within western component of vegetation indicating the typical composition and structure of the vegetation and the internal access trails.



Plate 3 – View north-west from within western component of vegetation indicating the typical composition and structure of the vegetation and the internal access trails.



Plate 4 – View north from within western component of vegetation indicating the typical composition and structure of the vegetation and the internal access trails.



Plate 5 – View south from within western component of vegetation indicating the typical composition and structure of the vegetation and the internal access trails.



Plate 6 – View of the dam waterbody at the south-western extent of the Site.



Plate 7 – View of the dam waterbody and the large *Eucalyptus tereticornis* along the western boundary in the background.



Plate 8 – View south-west showing the Interstate Railway corridor bounding the Site to the west.



Plate 9 – View north-west of the Interstate Railway corridor and the railway overpass (Pub Lane).



Plate 10 – View of the smaller waterbody in the south-western corner of the Site.



Plate 11 – Example of Asparagus aethiopicus cv. Sprengeri* infestation occurring on northern bank of waterbody.



Plate 12 – View of the disused Old Pub Lane road corridor and the Interstate Railway (background). Site occurs to the right of image.



Plate 13 – View east of Old Pub Lane road corridor and current entry into the Site (left).



Plate 14 – View of vegetation composition and structure within the Site and the current Site entry (background).



Plate 15 – View of current Site entry, carparking and existing swim school.



Plate 16 – View west of vegetation along northern boundary of the Site and behind the existing swim school.



Plate 17 – View east of vegetation along northern boundary of the Site and behind the existing swim school.



Plate 18 – View north-west of Pub Lane road corridor bounding the Site to the north and the railway overpass.





Plate 20 - View south from within the eastern components of the Site showing internal fencing surrounding the existing residence.



Plate 21 - View of the younger cohort of vegetation in the eastern components of the Site.



Plate 22 – Example of *Callisia repens**, exotic groundcover infestation occurring within the eastern component of the Site



Plate 23 - View of the far eastern corner of the Site and the Pub Lane and Old Pub Lane intersection (background right).



Plate 24 - View north of the Site and the existing residence (left).

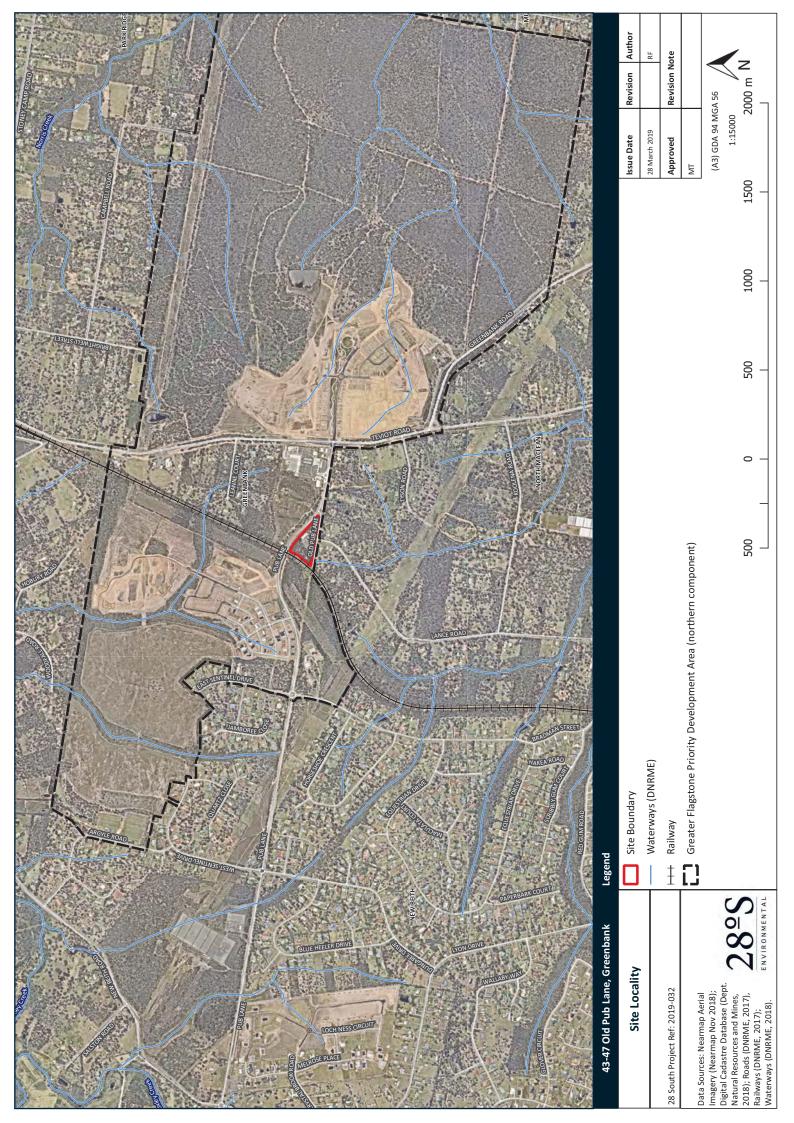


Plate 25 – View north of the ancillary shed structures associated within the existing residence occurring centrally within the Site.

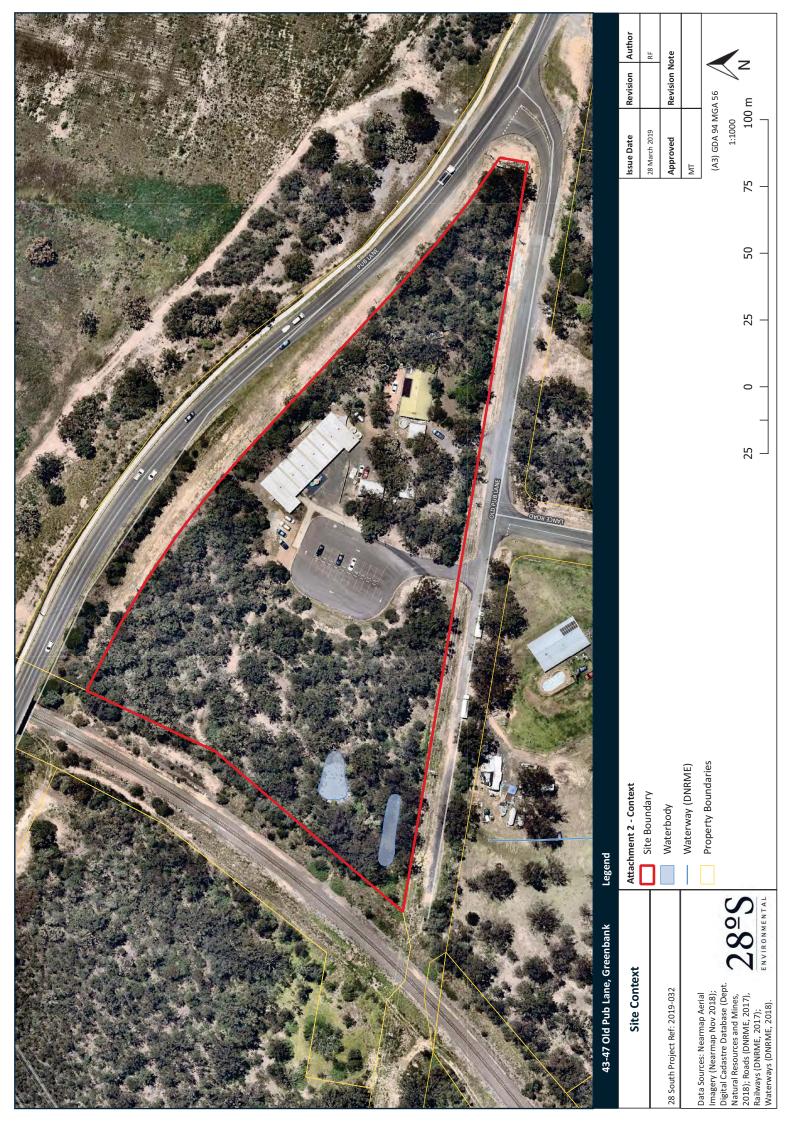


Plate 26 - View north of the internal fencing and vegetation separating the existing swim school (background) and the existing residence (right).











AMENDED IN RED

By: Brandon Bouda

Date: 17 October 2019



ATTACHMENT 3

Refer Approved Master Plan

FINAL

CHECKED BY BH MS

Commercial - Health Care Service, Veterinary 2 Commercial - Health Care Service, Veterinary 2 Feet Staylor Service Ser

Total Approved Gross Floor Area Recommended minimum supply of car parks

Development Specifications:

1.Minimum 30m setback is required to the western boundary of the site adjoining the railway corridor. 2. Maximum building height of 8.5m for all uses (exceptinatery).

3. Industry Worshouse I may comprise a building height to be of firm.

4. All buildings must be setback a minimum of on from heb. Luns and of be blum one of be blum one.

5. Landscoping is to be provided along all street frontages, around buildings and within car parking or one.

SCALE 1:1000 @ A3

DRAWING MASTERPLAN

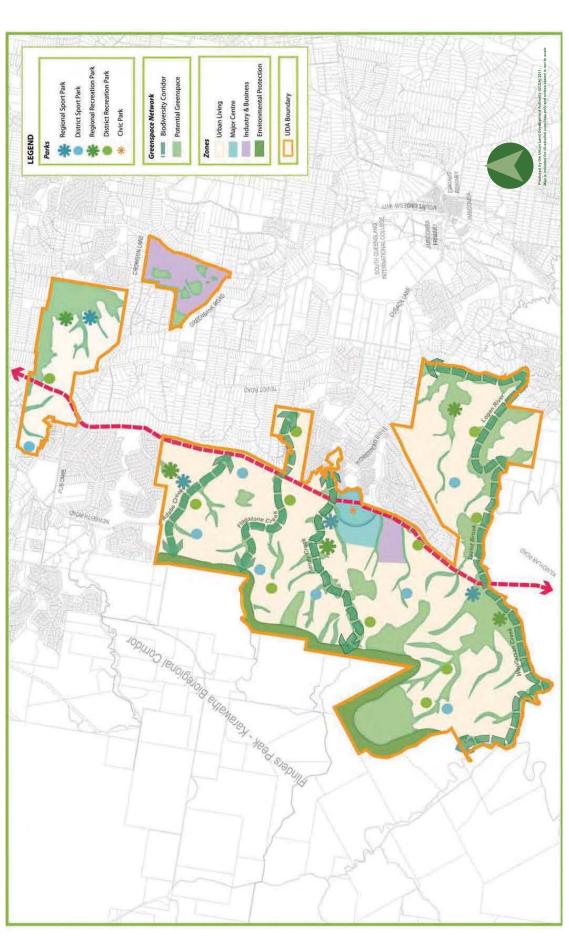
JOB 7190032

MASTERPLAN
ub Lane, Greenbank QLD 4124
LOT 1 RP 184067
or Warren Witt, BW Advisory





3.0

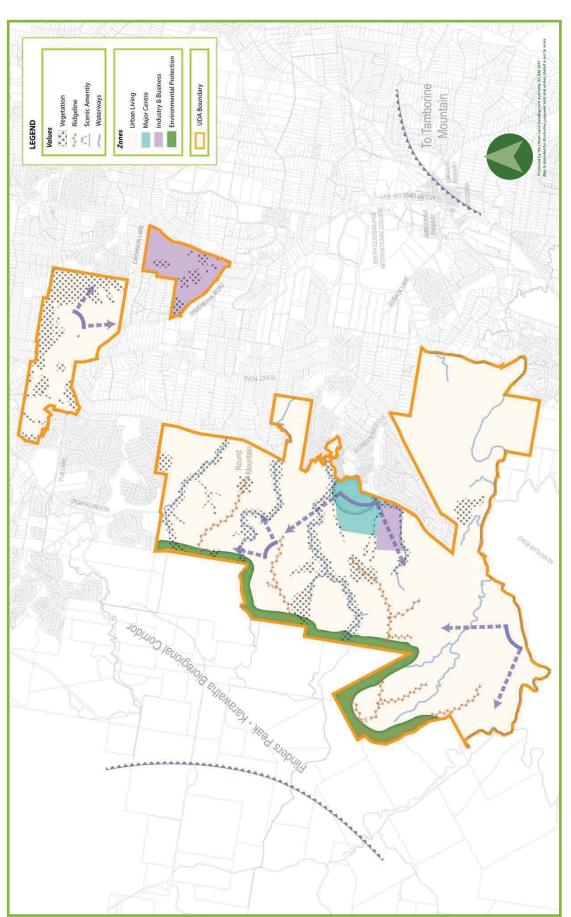


Greater Flagstone Urban Development Area Development Scheme



3.0

Map 6 - Natural values

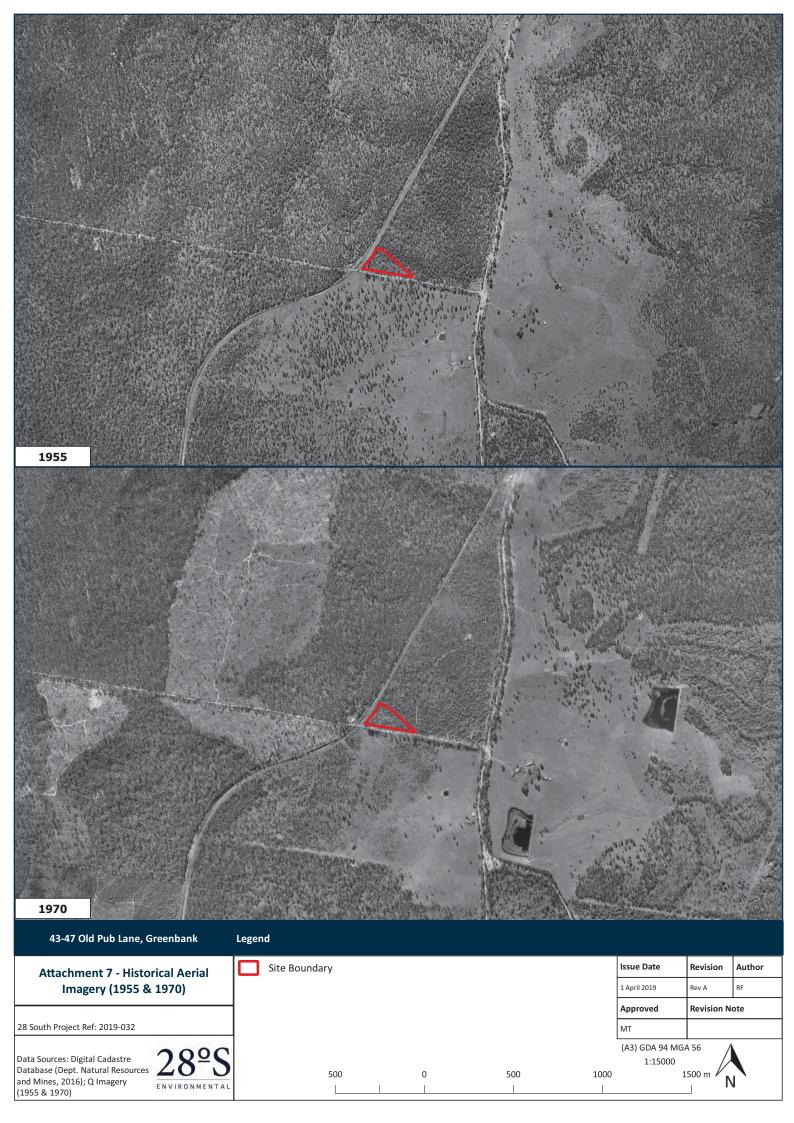




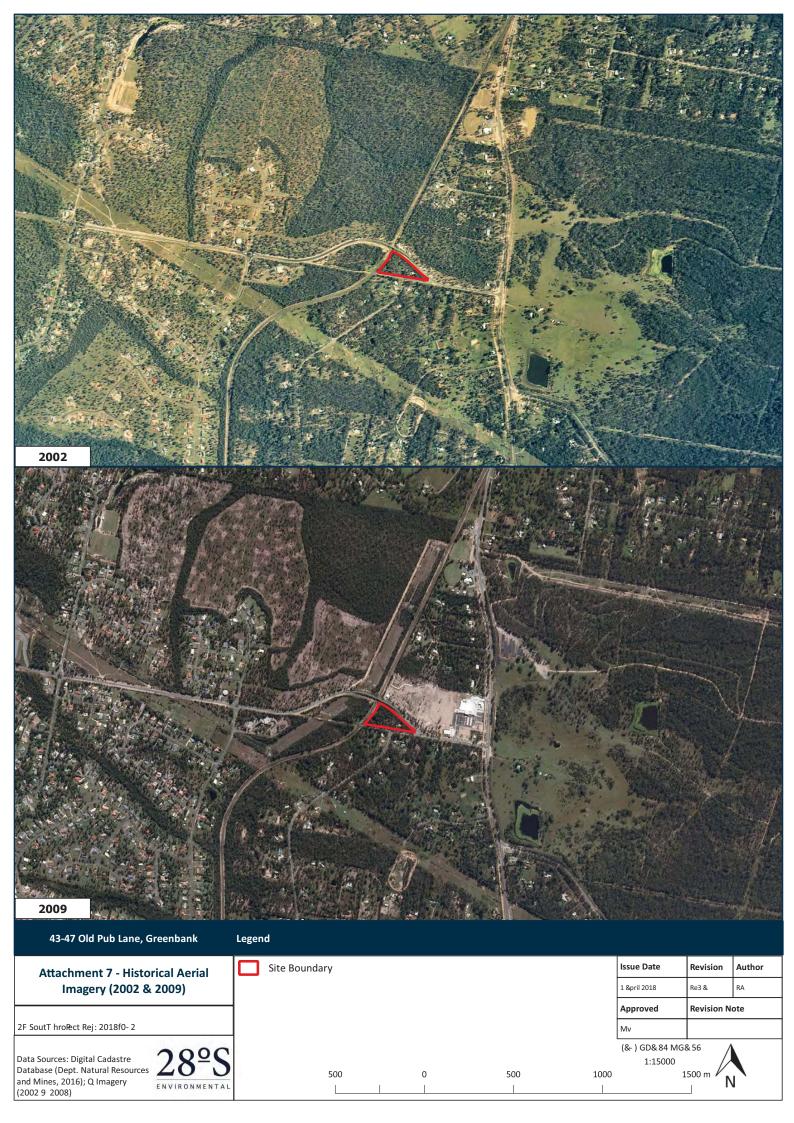
Environmental Protection Rail Buffer Area
Electrical Transmission
Easement Steep Slope 16-20% Steep Slope >21% ---- Greenspace Buffer Industry & Business Bushfire Hazard UDA Boundary Urban Living Major Centre Q100 flood - Waterways Utilities LEGEND Time with Minimum Map 7 - Development constraints

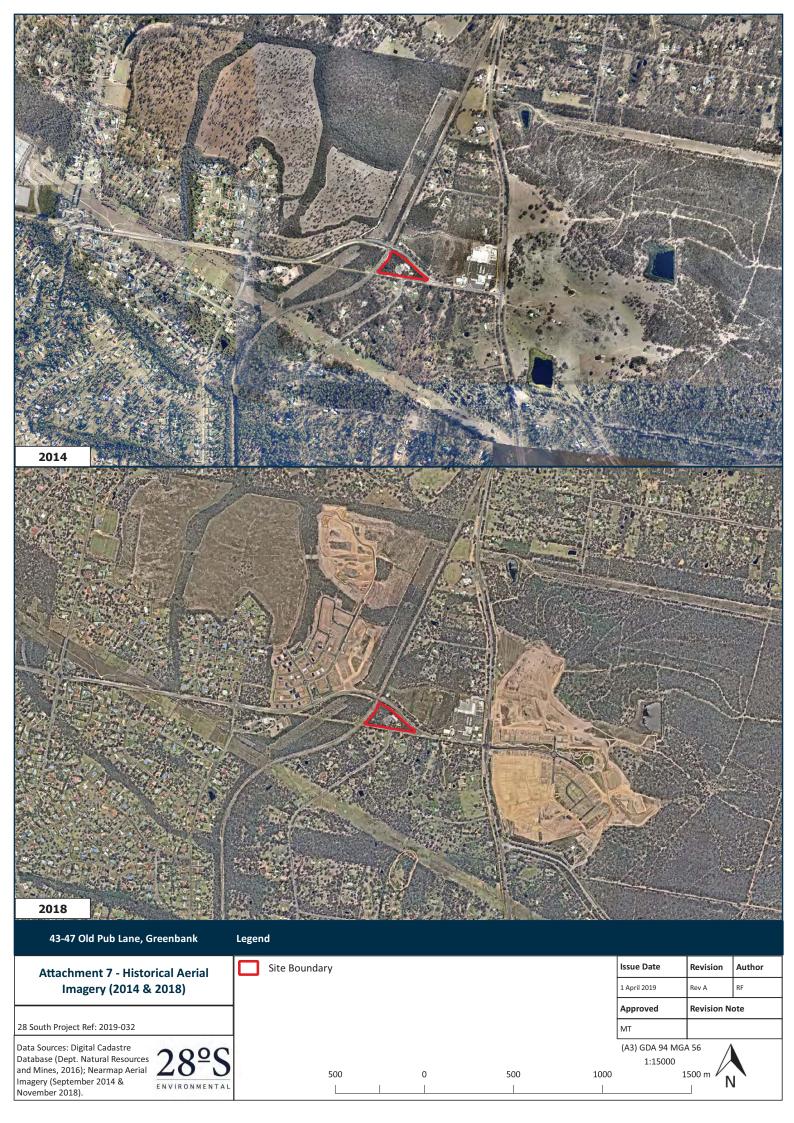
Greater Flagstone Urban Development Area Development Scheme















EPBC Act Protected Matters Report

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

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

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

Report created: 20/03/19 17:05:26

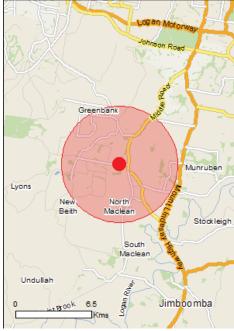
Summary

Details

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

Caveat

Acknowledgements



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

Coordinates
Buffer: 5.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	2
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
<u>Listed Threatened Species:</u>	35
Listed Migratory Species:	16

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	1
Commonwealth Heritage Places:	1
Listed Marine Species:	22
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	38
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[Resource Information]
Name	Proximity
Moreton bay	20 - 30km upstream
Moreton bay	20 - 30km upstream

Listed Threatened Ecological Communities [Resource Information] For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps. Name Status Type of Presence Coastal Swamp Oak (Casuarina glauca) Forest of New Endangered Community may occur

Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological	Endangered	Community may occur within area
community Lowland Rainforest of Subtropical Australia	Critically Endangered	Community may occur within area
Swamp Tea-tree (Melaleuca irbyana) Forest of Southeast Queensland	Critically Endangered	Community likely to occur within area
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland	Critically Endangered	Community may occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<u>Dasyornis brachypterus</u> Eastern Bristlebird [533]	Endangered	Species or species habitat likely to occur within area
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat may occur within area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area
<u>Lathamus discolor</u> Swift Parrot [744]	Critically Endangered	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<u>Turnix melanogaster</u> Black-breasted Button-quail [923]	Vulnerable	Species or species habitat likely to occur within area
Fish		
Maccullochella mariensis Mary River Cod [83806]	Endangered	Translocated population known to occur within area
Insects		
Argynnis hyperbius inconstans Australian Fritillary [88056]	Critically Endangered	Species or species habitat may occur within area
Mammals		
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area
Dasyurus maculatus maculatus (SE mainland populati Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	ion <u>)</u> Endangered	Species or species habitat known to occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area
Petrogale penicillata Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat likely to occur within area
Phascolarctos cinereus (combined populations of Qld, Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	NSW and the ACT) Vulnerable	Species or species habitat known to occur within area
Potorous tridactylus tridactylus Long-nosed Potoroo (SE mainland) [66645]	Vulnerable	Species or species habitat may occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Plants		
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat likely to occur within area
Cycas ophiolitica [55797]	Endangered	Species or species habitat likely to occur within area
<u>Dichanthium setosum</u> bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth- shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Macadamia tetraphylla Rough-shelled Bush Nut, Macadamia Nut, Rough-shelled Macadamia, Rough-leaved Queensland Nut [6581]	Vulnerable	Species or species habitat may occur within area
Notelaea ipsviciensis Cooneana Olive [81858]	Critically Endangered	Species or species habitat may occur within area
Notelaea Iloydii Lloyd's Olive [15002]	Vulnerable	Species or species habitat likely to occur within area
Phaius australis Lesser Swamp-orchid [5872]	Endangered	Species or species habitat likely to occur within area
Plectranthus habrophyllus [64589]	Endangered	Species or species habitat likely to occur within area
Samadera bidwillii Quassia [29708]	Vulnerable	Species or species habitat likely to occur within area
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat likely to occur within area
Reptiles		
<u>Delma torquata</u> Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat may occur within area
Saiphos reticulatus Three-toed Snake-tooth Skink [88328]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species	the EDDC Act. Threateness	[Resource Information]
* Species is listed under a different scientific name on Name	Threatened	Type of Presence
Migratory Marine Birds	Tilleaterieu	Type of Fresched
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]		Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat likely to occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
<u>Tringa nebularia</u> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Apus pacificus
Fork-tailed Swift [678]

Commonwealth Land [Resource Information]

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

Name		
Defence - GREENBANK TRAINING AREA		
Commonwealth Heritage Places		[Resource Information]
Name	State	Status
Natural		
Greenbank Military Training Area (part)	QLD	Listed place
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific nam	ne on the EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Anseranas semipalmata		
Magpie Goose [978]		Species or species habitat

may occur within area

Species or species

Name	Threatened	Type of Presence
Ardea alba	meatened	habitat likely to occur within area
Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis		
Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii		
Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundapus caudacutus		
White-throated Needletail [682]		Species or species habitat known to occur within area
<u>Lathamus discolor</u>		
Swift Parrot [744]	Critically Endangered	Species or species habitat likely to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus		
Spectacled Monarch [610]		Species or species habitat likely to occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat may occur within area
Rhipidura rufifrons		
Rufous Fantail [592]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat likely to occur

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

Extra Information

Mammals

State and Territory Reserves	[Resource Information]
Name	State
A and T Koala Billabong	QLD
Koolena	QLD

Invasive Species [Resource Information]

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

Name	Status	Type of Presence
Birds		
Acridotheres tristis		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis		
European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Lonchura punctulata		
Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Streptopelia chinensis		
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Sturnus vulgaris		
Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina		
Cane Toad [83218]		Species or species habitat known to occur within area

Name	Status	Type of Presence
Bos taurus		
Domestic Cattle [16]		Species or species habitat likely to occur within area
Conia lunua familiaria		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equue cohollus		
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Lepus capensis		
Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus		
Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus		
Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus		
Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa		
Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes		
Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Alternanthera philoxeroides		
Alligator Weed [11620]		Species or species habitat likely to occur within area
Anredera cordifolia		
Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643] Cabomba caroliniana		Species or species habitat likely to occur within area
Cabomba, Fanwort, Carolina Watershield, Fish Grass Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171]	3,	Species or species habitat likely to occur within area
Chrysanthemoides monilifera		
Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. rotundata		
Bitou Bush [16332]		Species or species habitat likely to occur within area
Cryptostegia grandiflora		
Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] Eichhornia crassipes		Species or species habitat likely to occur within area
Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat
The state of the s		likely to occur within area

Name	Status	Type of Presence
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom, Common Broom, French Broom, Soft Broom [20126]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]	1	Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Parkinsonia aculeata		Species or species habitat likely to occur within area
Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Hors Bean [12301]	e	Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S. Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]	x reichardtii	Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]	a	Species or species habitat likely to occur within area
Senecio madagascariensis Fireweed, Madagascar Ragwort, Madagascar Groundsel [2624]		Species or species habitat likely to occur within area
Solanum elaeagnifolium Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade, Tomato Weed, White Nightshade, Bull-nettle, Prairie-berry, Satansbos, Silver-leaf Bitter-apple, Silverleaf-nettle, Trompillo [12323]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacin Besi [1258]	g	Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Greenbank Army Training Area C		QLD

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-27.73746 152.97865

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.





Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All

Type: All

Status: All

Records: All

Date: All

Latitude: -27.7374

Longitude: 152.9786

Distance: 5

Email: Mitch@28south.com.au

Date submitted: Wednesday 20 Mar 2019 16:05:58

Date extracted: Wednesday 20 Mar 2019 16:10:03

The number of records retrieved = 358

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

Kingdom	Class	Family	Scientific Name	Common Name	_ Q A	Records
animals	amphibians	Bufonidae	Rhinella marina	cane toad	>	18
animals	amphibians	Hylidae	Litoria nasuta	striped rocketfrog	O	က
animals	amphibians	Hylidae	Litoria dentata	bleating treefrog	U (က ၊
anımals	amphibians	Hylidae	Litoria peronii	emerald spotted treetrog	ပ	ာ လ
animais	amphibians	Hylidae	Litoria rubella	ruddy treetrog	ی د	ه م
animais	amphibians	Hylidae	Litoria Wilcoxii	eastern stony creek frog	ی د	7 L
animais	amphibians	Hylidae	Litoria gracilenta	graceful treetrog	ی د	1 ດ
animais	amphibians	Hylldae	Litoria iatopaimata	broad palmed rockettrog	ى د	_ ,
animals	amphibians	Hylidae	Litoria brevipalmata	green thighed frog	ပ (— į
animals	amphibians	Hylidae	Litoria fallax	eastern sedgetrog	<u>ن</u>	1/
animals	amphibians	Hylidae	Litoria caerulea	common green treefrog	O ·	
animals	amphibians	Limnodynastidae	Limnodynastes tasmaniensis	spotted grassfrog	ပ	က
animals	amphibians	Limnodynastidae	Limnodynastes terraereginae	scarlet sided pobblebonk	ပ	9
animals	amphibians	Limnodynastidae	Platyplectrum ornatum	ornate burrowing frog	ပ	∞
animals	amphibians	Limnodynastidae	Limnodynastes peronii	striped marshfrog	ပ	6
animals	amphibians	Limnodynastidae	Adelotus brevis	tusked frog	>	2
animals	amphibians	Myobatrachidae	Crinia parinsignifera	beeping froglet	O	1
animals	amphibians	Myobatrachidae	Mixophyes fasciolatus	great barred frog	O	3
animals	amphibians	Myobatrachidae	Pseudophryne coriacea	red backed broodfrog	O	က
animals	amphibians	Myobatrachidae	Uperoleja laevigata	eastern gungan	O	_
animals	amphibians	Myobatrachidae	Pseudophryne raveni	copper backed broodfrog	O	2
animals	amphibians	Myobatrachidae	Pseudophryne major	great brown broodfrog	O	_
animals	amphibians	Myobatrachidae	Uperoleja rugosa	chubby gungan	O	က
animals	amphibians	Myobatrachidae	Uperoleia fusca	dusky aungan	O	5
animals	birds	Acanthizidae	Smicrornis brevirostris	weebill	O	7
animals	birds	Acanthizidae	Acanthiza chrysorrhoa	vellow-rumped thornbill	O	2
animals	birds	Acanthizidae	Sericornis frontalis	white-browed scrubwren	O	1
animals	birds	Acanthizidae	Gerygone olivacea	white-throated gerygone	O	10
animals	birds	Acanthizidae	Acanthiza nana	yellow thornbill	O	2
animals	birds	Acanthizidae	Gerygone mouki	brown gerygone	O	2
animals	birds	Acanthizidae	Acanthiza lineata	striated thornbill	O	_
animals	birds	Acanthizidae	Acanthiza pusilla	brown thornbill	O	
animals	birds	Accipitridae	Accipiter cirrocephalus	collared sparrowhawk	O	4
animals	birds	Accipitridae	Accipiter novaehollandiae	grey goshawk	O	8
animals	birds	Accipitridae	Haliaeetus leucogaster	white-bellied sea-eagle	ပ	က
animals	birds	Accipitridae	Haliastur sphenurus	whistling kite	O	80
animals	birds	Accipitridae	Aquila audax	wedge-tailed eagle	O	9
animals	birds	Accipitridae	Elanus axillaris	black-shouldered kite	O	3
animals	birds	Accipitridae	Accipiter fasciatus	brown goshawk	O	2
animals	birds	Accipitridae	Aviceda subcristata	Pacific baza	ပ	34
animals	birds	Acrocephalidae	Acrocephalus australis	Australian reed-warbler	O	_
animals	birds	Aegothelidae	Aegotheles cristatus	Australian owlet-nightjar	ပ	က
animals	birds	Alcedinidae	Ceyx azureus	azure kingfisher	ပ	6
animals	birds	Alcedinidae	Ceyx pusillus	little kingfisher	O	_
animals	birds	Anatidae	Cygnus atratus	black swan	O	2
animals	birds	Anatidae	Dendrocygna arcuata	wandering whistling-duck	O	_

Kingdom	Class	Family	Scientific Name	Common Name	- 	4	Records
animals	birds	Anatidae	Dendrocygna eytoni	plumed whistling-duck	O		က
animals	birds	Anatidae	Anas platyrhynchos	northern mallard	>		_
animals	birds	Anatidae	Chenonetta jubata	Australian wood duck	O		29
animals	birds	Anatidae	Anas superciliosa	Pacific black duck	O		52
animals	birds	Anatidae	Aythya australis	hardhead	O		2
animals	birds	Anatidae	Anas rhynchotis	Australasian shoveler	O		_
animals	birds	Anatidae	Anas gracilis	grey teal	S		7
animals	birds	Anhingidae	Anhinga novaehollandiae	Australasian darter	S		4
animals	birds	Anseranatidae	Anseranas semipalmata	magpie goose	S)		7
animals	birds	Apodidae	Apus pacificus	fork-tailed swift	ဟ ်		<u> </u>
animals	birds	Apodidae	Hirundapus caudacutus	white-throated needletail	S		က
animals	birds	Ardeidae	Nycticorax caledonicus	nankeen night-heron	S		29
animals	birds	Ardeidae	Ardea alba modesta	eastern great egret	S		7
animals	birds	Ardeidae	Ardea intermedia	intermediate egret	S		9
animals	birds	Ardeidae	Ardea pacifica	white-necked heron	O		6
animals	birds	Ardeidae	Bubulcus ibis	cattle egret	O		31
animals	birds	Ardeidae	Egretta novaehollandiae	white-faced heron	O		28
animals	birds	Artamidae	Strepera graculina	pied currawong	O		99
animals	birds	Artamidae	Artamus personatus	masked woodswallow	O		—
animals	birds	Artamidae	Cracticus tibicen	Australian magpie	O		129
animals	birds	Artamidae	Cracticus sp.	i			4
animals	birds	Artamidae	Artamus leucorynchus	white-breasted woodswallow	O		က
animals	birds	Artamidae	Cracticus nigrogularis	pied butcherbird	O		48
animals	birds	Artamidae	Cracticus torquatus	grey butcherbird	S		92
animals	birds	Cacatuidae	Calyptorhynchus lathami lathami	glossy black-cockatoo (eastern)	>		2
animals	birds	Cacatuidae	Calyptorhynchus banksii	red-tailed black-cockatoo	O		_
animals	birds	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo	S		71
animals	birds	Cacatuidae	Cacatua tenuirostris	long-billed corella	C ≻		_
animals	birds	Cacatuidae	Eolophus roseicapilla	galah	S		29
animals	birds	Cacatuidae	Nymphicus hollandicus	cockatiel	O		~
animals	birds	Campephagidae	Lalage leucomela	varied triller	O		7
animals	birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike	O		89
animals	birds	Campephagidae	Coracina tenuirostris	cicadabird	O		2
animals	birds	Campephagidae	Coracina papuensis	white-bellied cuckoo-shrike	S		5
animals	birds	Charadriidae	Vanellus miles novaehollandiae	masked lapwing (southern subspecies)	S		36
animals	birds	Charadriidae	Vanellus miles	masked lapwing	S		5
animals	birds	Charadriidae	Vanellus tricolor	banded lapwing	S		5
animals	birds	Ciconiidae	Ephippiorhynchus asiaticus	black-necked stork	S		~
animals	birds	Cisticolidae	Cisticola exilis	golden-headed cisticola	S		2
animals	birds	Climacteridae	Cormobates leucophaea metastasis	white-throated treecreeper (southern)	S		თ ·
animals	birds	Climacteridae	Cormobates leucophaea	white-throated treecreeper	S)		<u>. </u>
animals	birds	Columbidae	Lopholaimus antarcticus	topknot pigeon	ပ (- (
animals	birds	Columbidae	Macropygia amboinensis	brown cuckoo-dove			5 6
animais	birds	Columbidae	Streptopella chinensis	spotted dove	-		<u>.</u> 2
animals	birds	Columbidae	Geopelia numeralis Plane al particular	bar-shouldered dove	ى ر		- t
anımals	plids	Columbidae	Phaps chalcoptera	common bronzewing)		<i>)</i> L

Kingdom	Class	Family	Scientific Name	Common Name	- О А	Records
animals	birds	Columbidae	Ocvphaps lophotes	crested pigeon	O	47
animals	birds	Columbidae	Geopelia striata	peaceful dove	O	8
animals	birds	Columbidae	Columba livia	rock dove	>-	2
animals	birds	Coraciidae	Eurystomus orientalis	dollarbird	O	36
animals	birds	Corvidae	Corvus orru	Torresian crow	ပ	137
animals	birds	Corvidae	Corvus coronoides	Australian raven	ပ	_
animals	birds	Cuculidae	Eudynamys orientalis	eastern koel	O (31
animals	birds	Cuculidae	Scythrops novaehollandiae	channel-billed cuckoo	O ·	21
animals	birds	Cuculidae	Cacomantis flabelliformis	fan-tailed cuckoo	O (15
animals	pirds	Cuculidae	Centropus phasianinus	pheasant coucal	ပ	47
animals	birds	Cuculidae	Cacomantis variolosus	brush cuckoo	O	16
animals	birds	Cuculidae	Chalcites lucidus	shining bronze-cuckoo	ပ	2
animals	birds	Cuculidae	Cuculus optatus	oriental cuckoo	SF	<u> </u>
animals	pirds	Cuculidae	Cacomantis pallidus	pallid cuckoo	ပ	2
animals	birds	Dicruridae	Dicrurus bracteatus	spangled drongo	ပ	62
animals	birds	Estrildidae	Neochmia temporalis	red-browed finch	ပ	25
animals	birds	Estrildidae	Lonchura castaneothorax	chestnut-breasted mannikin	O	~
animals	birds	Estrildidae	Taeniopygia bichenovii	double-barred finch	ပ	2
animals	birds	Eurostopodidae	Eurostopodus mystacalis	white-throated nightjar	ပ	—
animals	birds	Falconidae	Falco berigora	brown falcon	ပ	4
animals	birds	Falconidae	Falco hypoleucos	grey falcon	>	_
animals	birds	Falconidae	Falco longipennis	Australian hobby	O	_
animals	birds	Falconidae	Falco cenchroides	nankeen kestrel	O	∞
animals	birds	Falconidae	Falco peregrinus	peregrine falcon	O	_
animals	birds	Halcyonidae	Todiramphus sanctus	sacred kingfisher	ပ	20
animals	birds	Halcyonidae	Todiramphus macleayii	forest kingfisher	ပ	52
animals	birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra	ပ	113
animals	pirds	Hirundinidae	Petrochelidon ariel	fairy martin	ပ	4
animals	birds	Hirundinidae	Hirundo neoxena	welcome swallow	ပ	41
animals	birds	Hirundinidae	Petrochelidon nigricans	tree martin	ပ	2
animals	pirds	Hirundinidae	Cheramoeca leucosterna	white-backed swallow	ပ	က
animals	pirds	Jacanidae	Irediparra gallinacea	comb-crested jacana	ပ	_
animals	birds	Maluridae	Malurus cyaneus	superb fairy-wren	ပ	21
animals	pirds	Maluridae	Malurus lamberti	variegated fairy-wren	ပ	20
animals	pirds	Maluridae	Malurus melanocephalus	red-backed fairy-wren	ပ	21
animals	birds	Megaluridae	Cincloramphus mathewsi	rufous songlark	ပ	~
animals	pirds	Megaluridae	Megalurus timoriensis	tawny grassbird	ပ	_
animals	birds	Megapodiidae	Alectura lathami	Australian brush-turkey	O	10
animals	birds	Meliphagidae	Philemon citreogularis	little friarbird	O	28
animals	birds	Meliphagidae	Anthochaera chrysoptera	little wattlebird	ပ	2
animals	birds	Meliphagidae	Myzomela erythrocephala	red-headed honeyeater	ပ	~
animals	birds	Meliphagidae	Melithreptus albogularis	white-throated honeyeater	O	28
animals	birds	Meliphagidae	Plectorhyncha lanceolata	striped honeyeater	O	4
animals	birds	Meliphagidae	Acanthorhynchus tenuirostris	eastern spinebill	ပ	15
animals	birds	Meliphagidae	Myzomela sanguinolenta	scarlet honeyeater	O (81
animals	birds	Meliphagidae	Manorina melanocephala	noisy miner	O	44

Kingdom	Class	Family	Scientific Name	Common Name	о В	Records
animals	birds	Meliphagidae	Philemon corniculatus	noisy friarbird	0	142
anımals	birds	Meliphagidae	Lichmera indistincta	brown noneyeater	ی ن	18
animais	birds	Meliphagidae	Entomyzon cyanotis	blue-raced noneyearer	ی د	00 r
animals	birds	Meliphagidae	Caligavis critysops	yellow-raced noneyearer	ی ر	00 0
arimals	birdo	Monophagidae	Monaga Jewilli	roibbox box octor) C	0 0
ariirais	Spiids	Meropidae	Merups ornatus	rallibow bee-eater	ة د	77
animais	Spilds	Monarchidae	Mylagra cyanoleuca	satin flycatcher	Z 0	- 3
animals	Spirds	Monarchidae	Grallina cyanoleuca	magpie-lark	ن	64
animals	birds	Monarchidae	Monarcha melanopsis	black-faced monarch	S	4
animals	birds	Monarchidae	Carterornis leucotis	white-eared monarch	ပ	_
animals	birds	Monarchidae	Myiagra inquieta	restless flycatcher	O	_
animals	birds	Monarchidae	Myiagra rubecula	leaden flycatcher	ပ	10
animals	birds	Motacillidae	Anthus novaeseelandiae	Australasian pipit	O	8
animals	birds	Nectariniidae	Dicaeum hirundinaceum	mistletoebird	ပ	о
animals	birds	Neosittidae	Daphoenositta chrysoptera	varied sittella	O	က
animals	birds	Oriolidae	Sphecotheres vieilloti	Australasian figbird	O	18
animals	birds	Oriolidae	Oriolus sagittatus	olive-backed oriole	O	25
animals	birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler	O	48
animals	birds	Pachýcephalidae	Colluricincla megarhyncha	little shrike-thrush	O	က
animals	birds	Pachycephalidae	Pachycephala pectoralis	golden whistler	O	41
animals	birds	Pachycephalidae	Colluricincla harmonica	grev shrike-thrush	O	62
animals	birds	Pachycephalidae	Pachycephala sp.		1	ļ -
animalo	hirds	Pardalotidae	Pardalotus punctatus	spotted pardalote	٢	36
animala	birde	Pardalotidae	Pardalotus punciatus Pardalotus etriatus	sported pardalote) C	2000
grimals	birds prids		Defending opening in the contract of the contr) (0 1
ariirals	birds	Pelecalidae	refecants conspicinates	Australian pencan	ی ر	~ C
ariirais	Spiids	Pellolcidae Definitiale	Eupsaltia australis Tirricollogis		ی د	87
animais	Spilds	Petrolcidae	regellasia capito	pale-yellow robin	، د	_ 、
animals	Spirds	Petroicidae	Microeca tascinans	Jacky winter	<u>ن</u>	_ '
animals	birds	Petroicidae	Petroica rosea	rose robin	ပ	12
animals	birds	Phalacrocoracidae	Phalacrocorax carbo	great cormorant	ပ	_
animals	birds	Phalacrocoracidae	Microcarbo melanoleucos	little pied cormorant	O	22
animals	birds	Phalacrocoracidae	Phalacrocorax sulcirostris	little black cormorant	O	7
animals	birds	Phasianidae	Coturnix ypsilophora	brown quail	O	7
animals	birds	Podargidae	Podargus strigoides	tawny frogmouth	O	28
animals	birds	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe	ပ	7
animals	birds	Pomatostomidae	Pomatostomus temporalis	grey-crowned babbler	O	20
animals	birds	Psittacidae	Alisterus scapularis	Australian king-parrot	O	30
animale	hirde	Deithoridae	Distriction of account	crimson rosella) (} ~
dimin of or	Did Spride	Doi:100.000	Appended organis	rod wingod porrot) C	
alillais	birds	Doitoldad	Aproximento el yuni opienus	red-willged pallot	ى د	- 6
animais	Spilds	Psillacidae	Platycercus adscitus	pale-neaded rosella) د	D (
animais	Dirds	Psittacidae	Parvipsitta pusilla	little lorikeet	ی ن	0 1
animals	birds	Psittacidae	Trichoglossus chlorolepidotus	scaly-breasted lorikeet	ပ (52
animals	birds	Psittacidae	Trichoglossus haematodus moluccanus	rainbow lorikeet	ပ (66
animals	birds	Psophodidae	Psophodes olivaceus	eastern whipbird	ပ	34
animals	birds	Rallidae	Porphyrio melanotus	purple swamphen	O	ර
animals	birds	Rallidae	Gallinula tenebrosa	dusky moorhen	O	တ

Kingdom	Class	Family	Scientific Name	Common Name	- О А	Records
animals animals	birds birds	Rallidae Rallidae	Fulica atra Lewinia pectoralis	Eurasian coot Lewin's rail	υu	4 ←
animals	birds	Recurvirostridae	Himantopus himantopus	black-winged stilt	O	← ·
animals	birds	Khipiduridae Rhipiduridae	Khipidura leucophrys leucophrys Rhipidura leucophrys	willie wagtail (southern) willie wadtail	၁ င	40
animals	birds	Rhipiduridae	Rhipidura albiscapa	arev fantail) (J	75
animals	birds	Rhipiduridae	Rhipidura rufifrons	rufous fantail	SF	15
animals	birds	Scolopacidae	Gallinago hardwickii	Latham's snipe	SL	_
animals	birds	Strigidae	Ninox strenua	powerful owl	>	2
animals	birds	Strigidae	Ninox boobook	southern boobook		35
animals	birds	Sturnidae	Acridotheres tristis	common myna	>- >	4 (
animals	Dirds	Sturnidae	Sturnus Vulgaris	common starling		N (
animals	birds	Threskiornithidae	meskiomis Platalea flavines	straw-necked ibis vellow-hilled spoonhill	<i>ა</i> c	94 74
animals	birds	Threskiornithidae	Threskiornis molucca	Australian white ibis) (J	20
animals	birds	Threskiornithidae	Platalea regia	royal spoonbill	O	20
animals	birds	Timaliidae	Zosterops lateralis	silvereye	O	41
animals	insects	Lycaenidae	Zizina otis labradus	common grass-blue (Australian		_
				subspecies)		
animals	insects	Nymphalidae	Euploea corinna	common crow	;	~ (
animals	insects	Nymphalidae	Danaus plexippus	monarch	>-	5
animals	insects	Nymphalidae	Acraea andromacha andromacha	glasswing		τ.
animals	insects	Nymphalidae	Melanitis leda bankia	evening brown		τ.
animals	insects	Nymphalidae	Tirumala hamata hamata	blue tiger		ς,
animals	Insects	Nymphalidae	Junonia Villida Villida	meadow argus		- 、
arılmals	Insects	Nymphalidae N Lelide	Variation perilla			
animais	Insects	Nymphalidae A sîabatidae	Vanessa Kersnawi	Australian painted lady	C	
animais	mammais	Acrobatidae	Acrobates pygmaeus	reathertall gilder	د :	_ L
animais	mammais	Canidae	Vulpes Vulpes	red lox	≻ >	c, 7
animais	marmais	Canidae	Caristogojo amijas Saistogojo amijas	dog		~ c
primals	mammals	Dasyuridae	Appopione et ortii	brown optochings	ی د	۷ ۲
animals	mammale	Dasyuridae	Antechinus staatul Antechinus flavines	Vellow: footed aptechings) C	- 4
2				(south-east Queensland))	r
animals	mammals	Dasyuridae	Dasyurus maculatus maculatus	spotted-tailed quoll (southern	Ш >	9
animals	mammals	Dasvuridae	Antechinus flavipes sensu lato	subspecies) vellow-footed antechinus	O	_
animals	mammals	Dasvuridae	Phascogale tapoatafa tapoatafa	brush-tailed phascogale) (C	. 22
animals	mammals	Emballonuridae	Saccolaimus flaviventris	vellow-bellied sheathtail bat) ()	2 (
animals	mammals	Felidae	Felis catus	cat	>	~
animals	mammals	Leporidae	Oryctolagus cuniculus	rabbit	>	8
animals	mammals	Leporidae	Lepus europaeus	European brown hare		21
animals	mammals	Macropodidae	Macropus agilis	agile wallaby	()	2 :
animals	mammals	Macropodidae	Macropus parryi	whiptail wallaby	ပ	51
animals	mammals	Macropodidae	Macropus sp.		(- (
anımals	mammals	Macropodidae	Macropus rutogriseus	red-necked wallaby	ပ	56

Kingdom	Class	Family	Scientific Name	Common Name	-	Ø	A	Records
animals animals animals	mammals mammals mammals	Macropodidae Macropodidae Molossidae	Macropus giganteus Wallabia bicolor Tadarida australis	eastern grey kangaroo swamp wallaby white-striped freetail bat		0000		70 72 72 80
animals animals	mammals mammals	Muridae Muridae	Pseudomys gracilicaudatus Rattus rattus M.o. moodlis	eastern cnestnut mouse black rat	>->	ی		- 6 0
animals	mammals	Muridae Ornithorhynchidae	mus musculus Ornithorhynchus anatinus	nouse mouse platypus	-	SL		л 4
animals	mammals	Peramelidae	Isoodon macrourus	northern brown bandicoot		O		9
animals animals	mammals mammals	Peramelidae Petauridae	Perameles nasuta Petaurus australis	long-nosed bandicoot vellow-bellied alider (southern		ပပ		- 0
مادستا	olomore, and a second		Dotains portoloposis	subspecies)		. (ו ע
animals	mammals	r etauridae Petauridae	Petalitis sp.)		റന
animals	mammals	Petauridae	Petaurus breviceps	sugar glider		ပ		9 9
animals	mammals	Phalangeridae	Trichosurus sp.					7
animals	mammals	Phalangeridae	Trichosurus vulpecula	common brushtail possum		ပ (9/
animals	mammals	Phalangeridae Dhaccalaratidae	Trichosurus caninus Dhaeoglaratas cinoraus	short-eared possum		´ ၁>	>	, 0 0
animale	mammale	Dealthochairidea	Pseudocheinis peregrinis	common ringtail possum				5 -
animals	mammals	Pseudocheiridae	Petauroides volans volans	southern greater glider			>	3/1
animals	mammals	Pteropodidae	Pteropus poliocephalus	grey-headed flying-fox			· >	
animals	mammals	Pteropodidae	Pteropus scapulatus	little red flying-fox		ပ		4
animals	mammals	Pteropodidae	Pteropus sp.					7
animals	mammals	Pteropodidae	Pteropus alecto	black flying-fox		O		2
animals	mammals	Suidae	Sus scrofa	pig	>			2
animals	mammals	Tachyglossidae	Tachyglossus aculeatus	short-beaked echidna		SL		-
animals	ray-finned fishes	Eleotridae	Mogurnda adspersa	southern purplespotted gudgeon	;			ο,
animals	ray-finned fishes	Poeciliidae	Gambusia holbrooki	mosquitotish	>	(<u>,</u>
animais	reptiles	Agamidae	Pogona barbata ato occopy	bearded dragon		ی ر		7.0
animais	repules	Agamidae	menagama lesueurii Diposiiphogo gootaalia	eastern water dragon		ى ر		0 4
animals	reptiles	Agamidae Boidae	Diporipriora australis Moralia spilota	commy roundnead		ی ر		ი დ
animals	reptiles	Chelidae	Wollumbinja latisfernum	saw-shelled turtle) C		<u> </u>
animals	reptiles	Chelidae	Emvdura macquarii macquarii	Murray turtle		O		·
animals	reptiles	Chelidae	Chélodina longicollis	eastern snake-necked turtle		ပ		_
animals	reptiles	Chelidae	Chelodina sp.					-
animals	reptiles	Colubridae	Tropidonophis mairii	freshwater snake		ပ		2
animals	reptiles	Colubridae	Dendrelaphis punctulatus	green tree snake		O		33
animals	reptiles	Diplodactylidae	Amalosia jacovae	clonded gecko		O		-
animals	reptiles	Elapidae	Demansia sp.	-		(← 、
anımals	reptiles	Elapidae	Furina diadema	red-naped snake		ပ (← (
anımals	reptiles	Elapidae	Cacophis harriettae	white-crowned snake		ပ (
animals	reptiles	Elapidae	Demansia psammopnis Beaudoshio autotio	yellow-raced wnipsnake		ی ر		Ω +
arılmals	repules	Flapidae	Pseudecilis guilalus Docudosojo tovtilio	spotled black strake) ر		– c
animals	reptiles	Flanidae	r seudoriaja textiiis Vermicella appulata	eastern brown snake bandy-bandy		ی د		N C
מוווומי	i domes	Flapidad	Verificena amunata	Dalluy-balluy)		7

Elapidae Elapidae Elapidae Elapidae Elapidae Gekkonidae Gekkonidae Scincidae	Kingdom Class	Family	Scientific Name	Common Name	О В	Records
Gekkonidae Geinya diducia stella diducia schi diducia stella diducia schi dida schi diducia schi dida schi diducia schi di	eptiles eptiles eptiles eptiles	Elapidae Elapidae Elapidae Elapidae	Cacophis squamulosus Cryptophis nigrescens Brachyurophis australis Pseudechis porphyriacus	golden crowned snake eastern small-eyed snake coral snake red-bellied black snake	0000	7000
Scincidae Tritique scripcides aeastern blue-longued lizard concidae Carotus features follorum concidae Carotus features follorum concidae Carotus features features features features features from comper-tailed skink from about serreaching from the carotus features features from comper-tailed skink from about serreaching from the carotus features from comper-tailed skink from a features features from comper-tailed skink from a features from carotidae Carotus seutinostum concidae Carotidae Carotus seutinostum control carotus features from carotidae Carotus seutinostum carotidae Carotus seutinostum control carotus features from from from from from from from from	reptiles reptiles reptiles	Gekkonidae Gekkonidae Pygopodidae	Gehyra dubia Hemidactylus frenatus Lialis burtonis	dubious dtella house gecko Burton's legless lizard		N W W
Scincidae Lampropholis amicua friendiy sunskink Scincidae Anomalopus vereauxii triendiy sunskink Scincidae Anomalopus vereauxii triendiy sunskink Scincidae Lampropholis amicua friendiy sunskink Scincidae Carliptotas scutirostrum scincidae Carliptotas scutirostrum scincidae Carliptotas scutirostrum Scincidae Carlia pectoralis Scincidae Carlia pectoralis spadingi copenitare scincidae Carlia vivax guoyii scincidae Carlia vivax guoyii copenitare railbow-skink scincidae Carlia vivax guoyii scincidae Aninos proximus sunda monitor scincidae Aninos proximus sunda monitor scincidae Aninos proximus sunda monitor scincidae Aninos proximus sunda scincidae Aninos proximus sunda monitor scincidae Aninos proximus sunda monitor scincidae Aninos proximus sunda monitor scincidae Aninos proximus sunda sunda scincidae Aninos scincidae Carlia vivax guoyii scincidae Aninos proximus sunda sunda scincidae Aninos scincidae Carlia vivax scincidae Carlia vivax scincidae Aninos sunda scincidae Carlia scincidae Carlia vivax scincidae Carlia scincidae Carlia vivax scincidae Carlia scincidae Ca	reptiles reptiles	Scincidae Scincidae Scincidae	Tiliqua scincoides Lygisaurus foliorum Ctenotus taeniolatus	eastern blue-tongued lizard tree-base litter-skink conner-tailed skink	000	o ω ←
Scincidae Calyptotis scutirostrum culcidae Carla pectralis culcidae Antilos proximus culcidae Antilos proximus pind snake sand monitor Varanidae Varanus varius separatus varius sand monitor sand monitor culcidar	reptiles reptiles	Scincidae Scincidae	Cerotes technolares Lampropholis amicula Anomalopus verreauxii	friendly sunskink three-clawed worm-skink	000	4
Scincidae Cryptoblepharus pulcher pulcher elegant snake-eyed skink Scincidae Carla prestoralis Scincidae Eulampous quoyii essenti utssock rainbow-skink tussock rainbow-skink proximus prind snake Varanus gouldii varanus gouldii sand Varanus gouldii varanus gouldii aranus gouldi	reptiles reptiles	Scincidae Scincidae	Lampropholis delicata Calvototis scutirostrum	dark-flecked garden sunskink scute-snouted calvototis	00	· 80 C/
Scincidae Carlia predoralis control de l'ampringue de l'aria predoralis carlia perdoralis carlia predoralis d'aria predoralis carlia predoralis d'aranto auvoji perdoralis d'aranto auvoji perdoralis carlia predoralis d'aranto avarius carlia predoralis d'aranto avarius carlia predoralis d'aranto avarius carlia d'aranto avarius promitor sand monitor sand monitor d'aranto avarius subrius caranto avarius serigerum mycetes Meripliaceae Hyphoderma serigerum serigerum sand monitor sand monitor d'aranto avarius caranto avarium socialis aurella aurella aurella aurella comycetes Candelariaceae Parmotrema subsumptum comycetes Parmetiaceae Pertusaria xanthopleca comycetes Pertusaria xanthopleca comycetes Pertusaria caranto avarius diavora comycetes Pertusaria caranto avariation diavora comycetes area caranto avariation diavora comycetes area caranto avariation diavora comycetes area caranto avariation diavora considar de Asteraceae Cadoplaca crenulatella consolida de Asteraceae Chamaecrista rotundifolia var. rotundifolia campanilaceae Chamaecrista rotundifolia var. rotundifolia campanilaceae consolida Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia campanilaceae consolida Caesalpiniaceae chamaecrista rotundifolia var. rotundifolia campanilaceae chamaecrista rotundifolia var. rotundifolia canto canto de caesalpin	reptiles	Scincidae	er pu	elegant snake-eyed skink straight-browed ctenoties	OC	~ +
Scincidade Califidade Califidade Califidade Califidade Califidade Califidade Varantis de Califidade Varantis de Califidade Varantis de Califidade Varantis de Varantis de Varantis de Varantis de Califidade Varantis de Califidade Hyphoderma setigerum myrcetes Meripliaceae Antrocia Acarosporaceae Antrocia Buellia antrocia Caliciaceae Antrocia Buellia antrocia Caliciaceae Candelarielea aurelia Candelarielea aurelia Candelarielea aurelia Candelarielea aurelia Candelarielea aurelia Candelarielea aurelia Candelarielea	reptiles	Scincidae	Ocean spectoralis	open-litter rainbow skink	000	- ← «
Typhlopidae Anilios proximus proximus proximus blind snake Varands varidas Varanus varidas Varanus varidas Varanus varidas Varands varidas Varanus varidas Var	reptiles	Scincidae	Cailla Vivax Eulamprus quovii	tussock rallibow-skilik eastern water skink	ى ن	၁ က
Variantidae Mariphoderma setigerum suppoderma setigerum Antrodia Acarospora citina omycetes Acarospora citina omycetes Caliciaceae Acarospora citina omycetes Caliciaceae Buellia ourcella aurella omycetes Candelariaceae Candelariella aurella omycetes Candelariaceae Trysanothecium scutellatum omycetes Permacinaceae Lecanora oreinoides Omycetes Permacinaceae Parmotroma subsumptum omycetes Pertusariaceae Portusaria xanthoplaca Omycetes Pertusariaceae Portusaria xanthoplaca Omycetes Portusariaceae Portusaria xanthoplaca Omycetes Portusariaceae Portusaria xanthoplaca Omycetes Portusariaceae Portusaria xanthoplaca Omycetes Portusariaceae Portusaria subsp. incisa Omycetes Portusariaceae Caloplaca crenulatella Omycetes Teloschistaceae Caloplaca crenulatella Omycetes Teloschistaceae Caloplaca Candelaria apiculatum opsicida Asteraceae Caloplaca Candelaria social Asteraceae Candelaria subsp. incisa Opsicida Asteraceae Candelaria apiculatum opsicida Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia Caesalpiniaceae Allinasia apiculatura conscional caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia cantanina directarina filtroalis	reptiles	Typhlopidae	Anilios proximus	proximus blind snake	00	← 1
mycetes Hyphodermataceae Hyphoderma setigerum mycetes Merpilaceae Antrodia mycetes Calciocaeae Antrodia omycetes Candelariaceae Buella omycetes Candelariaceae Candelariaceae Thysanothecium scutellatum omycetes Lecanoraceae Lecanora oreinoides omycetes Lecanoraceae Lecanoraceae Lecanoraceae Parmotrema subsumptum omycetes Pertusariaceae Parmotrema subsumptum omycetes Pertusariaceae Parmotrema subsumptum omycetes Porpidiaceae Parmotrema glaucalinariaceae Paraporpidia glauca omycetes Porpidiaceae Paraporpidia glauca omycetes Porpidiaceae Caloplaca crenulatella omycetes Proschistaceae Caloplaca crenulatella omycetes Teloschistaceae Caloplaca crenulatella opsida Asteraceae Curapsis radicans Opsida Asteraceae Campsis radicans opsida Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia cananalulaceae Lobelia quadrangulatis cananalulaceae Lobelia quadrangulatis cananalulaceae Lobelia quadrangulatis contra cananalulaceae Caloplaca cananal	reptiles	varanidae Varanidae	valanus vanus Varanus gouldii	lace monitor sand monitor	ں ں	~ ~
Meripilaceae Antrodia Meripilaceae Acarospora citrina Cardoniaceae Buellia Candelariaceae Candelariella aurella Candelariaceae Candelariella aurella Candelariaceae Thysanothecium scutellatum Lecanora oreinoides Lecanora oreinoides Lecanora oreinoides Pertusaria cantinoplaca Pertusaria	Agaricomycetes	Hyphodermataceae	Hyphoderma setigerum		0	1/1
calciaceae Candelariella aurella eurella urella aurella aurella aurella candelariaceae Candelariella aurella urella candelariaceae Candelariella aurella candelariaceae Inysanothecium subsumptum es Pertusariaceae Pertusaria xanthoplaca Pertusaria xanthoplaca Pertusaria xanthoplaca Pertusariaceae Pertusariaceae Pertusaria candelaria glaucolivida es Pertusariaceae Pertusaria subsumptum es Pertusariaceae Pertusaria subsumptum es Pertusariaceae Pertusaria subsumptum es Pertusariaceae Caloplaca crenulatella caloplaca crenulatella pertusariaceae Caloplaca crenulatella pertusaria caloplaca ca	Agaricomycetes	Meripilaceae	Antrodia Acarosnora citrina		O C	1/1
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tes Lecanoraceae Lecanora oreinoides Parmotrema subsumptum tes Pertusariaceae Parmotrema subsumptum tes Pertusaria xanthoplaca tes Pertusaria xanthoplaca tes Pertusaria xanthoplaca tes Porpidiaceae Paraporpidia glauca tes Ramalinaceae Ramalinora glaucolivida tes Ramalinaceae Caloplaca renulatella Asteraceae Chrysocephalum apiculatum Asteraceae Chrysocephalum apiculatum Asteraceae Euryops chrysanthemoides Asteraceae Erigeron pusillus Asteraceae Campsis radicans Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia Caesalpiniaceae Lobelia quadrangularis Campanulaceae Allocasuarina literalis	lecanoromycetes	_	rijysariotileciam scutellatum Lecanora		ی ن	1/1
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Seasalpiniaceae Paraporpidia glauca Seasalpiniaceae Paraporpidia glauca Ramalinaceae Ramalinora glaucolivida Seasalpiniaceae Caloplaca crenulatella Asteraceae Caloplaca Asteraceae Campsis radicans Chamaecrista rotundifolia var. rotundifolia Caesalpiniaceae Campasularis Casuarinaceae Campanularia	lecanoromycetes		Pertusaria xanthoplaca Dirinaria flava		၁င	177
es Ramalinaceae Ramalinora glaucolivida es Teloschistaceae Caloplaca crenulatella ces Teloschistaceae Caloplaca Crenulatella Araliaceae Caloplaca Trachymene incisa subsp. incisa Asteraceae Chrysocephalum apiculatum Asteraceae Chrysorephalum apiculatum Asteraceae Conysocephalum apiculatum Asteraceae Chrysorephalum apiculatum Asteraceae Chrysorephalum apiculatum Asteraceae Chrysorephalum apiculatum Asteraceae Chrysorephalus Asteraceae Champaillus Bignoniaceae Chamaecrista rotundifolia var. rotundifolia Caesalpiniaceae Lobelia quadrangularis Casuarinaceae Allocasuarina littoralis	lecanoromycetes		Paraporpidia alauca) (J	1/1
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Asteraceae Chrysocephiaum apiculatum Asteraceae Euryops chrysanthemoides Y Asteraceae Dzothamnus diosmifolius Asteraceae Erigeron pusillus Bignoniaceae Campsis radicans Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia Campanulaceae Lobelia quadrangularis Casuarinaceae Allocasuarina littoralis	Equisetopsida	Araliaceae	Trachymene incisa subsp. incisa	97	O (1/1
Asteraceae Ozothamnus diosmifolius white dogwood Y Asteraceae Erigeron pusillus Y Bignoniaceae Campsis radicans Campanulaceae Chamaecrista rotundifolia var. rotundifolia Campanulaceae Lobelia quadrangularis Casuarinaceae Allocasuarina littoralis	Equisetopsida	Asteraceae	Citysocephalaini apicalaini Filmoos chrysanthemoides	yellow battoris		1/1
Asteraceae Erigeron pusillus Bignoniaceae Campsis radicans Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia Campanulaceae Lobelia quadrangularis Casuarinaceae Allocasuarina littoralis	Equisetopsida	Asteraceae	Ozothamnus diosmifolius	white dogwood		- - -
Bignoniaceae <i>Campsis radicans</i> Y Caesalpiniaceae <i>Chamaecrista rotundifolia var. rotundifolia</i> Y Campanulaceae <i>Lobelia quadrangularis</i> Casuarinaceae Allocasuarina littoralis	Equisetopsida	Asteraceae	Erigeron pusillus	ò	>	1/1
Caesalpiniaceae <i>Chamaecrista rotundifolia var. rotundifolia</i> Campanulaceae <i>Lobelia quadrangularis</i> Casuarinaceae Allocasuarina littoralis	Equisetopsida	Bignoniaceae	Campsis radicans		>-	1/1
Campanulaceae Lobella quadrangularis Casuarinaceae Allocasuarina littoralis	Equisetopsida	Caesalpiniaceae	Chamaecrista rotundifolia var. rotundifolia			- 0
	Equisetopsida Equisetopsida	Casuarinaceae Casuarinaceae	Lobelia quadrangulans Allocasuarina littoralis		ں ں	- /7

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Common Name	nutgrass	prickly daviesia		wild pansies	-							small-fruited grey gum	Moreton Bay ash	tantoon		swamp box				;	frogsmouth	duilline li ee	kandaroo drass	giant Parramatta grass		soap tree	white eye	beach acronychia		frail trigger plant		
Scientific Name	Cyperus rotundus Drosera spatulata	Drosera Daviesia villifera Jacksonia scoparia	Glycine clandestina Hardenbergia violacea	Erythrina crista-galli Velleia spathulata	Goodenia rotundifolia	Goodenia beliidii olia Dianella longifolia	Patersonia sericea	Lomandra longifolia	Lomandra multiflora	Acacia concurrens	Myrsine howittiana	Eucalyptus propinqua	Corymbia tessellaris	Leptospermum polygalifolium	Melaleuca decora	Lophostemon suaveolens	Melaleuca irbyana	Eucalyptus tereticornis	Cymbidium canaliculatum	Pterostylis nutans	Philydrum lanuginosum	Petalostigina pubescens Cepchus purpurascens	Themeda triandra	Sporobolus fertilis	Grevillea banksii	Alphitonia excelsa	Richardia brasiliensis	Acronychia imperforata	Severinia buxifolia	Stylidium debile	Pimelea linifolia	Notothixos incanus
Family	Cyperaceae Droseraceae	Droseraceae Fabaceae Fabaceae	Fabaceae Fabaceae	Fabaceae Goodeniaceae	Goodeniaceae	Goodeniaceae Hemerocallidaceae	Iridaceae	Laxmanniaceae	Laxmanniaceae Laxmanniaceae	Mimosaceae	Myrsinaceae	Myrtaceae	Myrtaceae	Myrtaceae	Myrtaceae	Myrtaceae	Myrtaceae	Myrtaceae	Orchidaceae	Orchidaceae	Philydraceae	Pictodendraceae	Poaceae	Poaceae	Proteaceae	Rhamnaceae	Rubiaceae	Rutaceae	Rutaceae	Stylidiaceae	Thymelaeaceae	Viscaceae
Class	Equisetopsida Equisetopsida	Equisetopsida Equisetopsida Equisetopsida	Equisetopsida Equisetopsida	Equisetopsida Equisetopsida	Equisetopsida	Equisetopsida Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida	Equisetopsida
Kingdom	plants plants	plants plants plants	plants plants	plants plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants	plants

CODES

- I indicates that the taxon is introduced to Queensland and has naturalised.
- Q Indicates the Queensland conservation status of each taxon under the Nature Conservation Act 1992. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().
- Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V).

This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon. Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens). This number is output as 999 if it equals or exceeds this value.



Longitude: 152.97881 Latitude: -27.73743



Protected Plants Flora Survey Trigger Map

Legend

Coordinates

High risk area

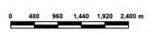
Cadastral line Property boundaries shown are provided as a locational aid only

Freeways / motorways / highways

Secondary roads / streets







This product is projected into: GDA 1994 Queensland Albers

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.

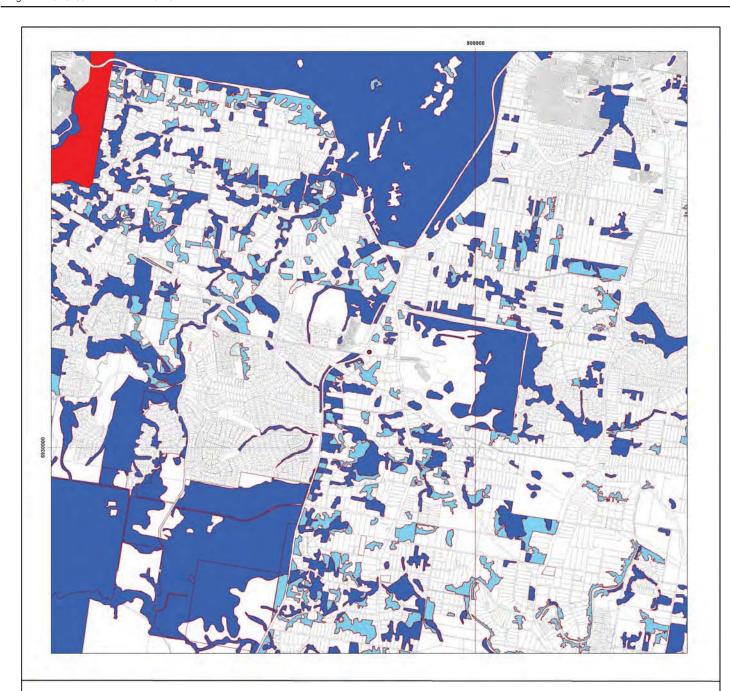
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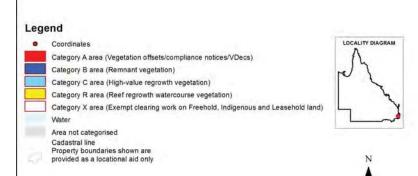
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Regulated Vegetation Management Map

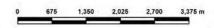


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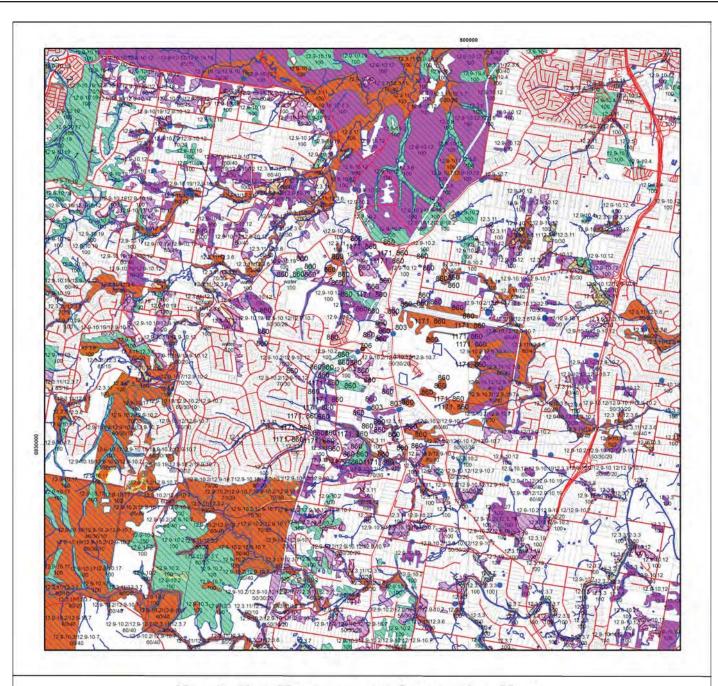
Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site; www.dnrme.qld.gov.au or contact the Department of Natural Resources, Mines and Energy.

Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at http://www.information.qld.gov.au/

This map is updated on a monthly basis to ensure new PMAVs are included as they are approved.







Vegetation Management Supporting Map

Category A or B area containing endangered regional ecosystems Category A or B area containing of concern regional ecosystems Category A or B area that is a least concern regional ecosystem Category A or B area under Section 20AH These areas are edged in yellow and filled with the remnant RE Status Category C area containing endangered regional ecosystems Category C area containing of concern regional ecosystems Category C area that is a least concern regional ecosystem Category C area under Section 20Al These areas are edged in purple and filled with the remnant RE Status Non Remnant Water Wetland on the vegetation management wetlands map Essential habitat on the essential habitat map Essential habitat species record Watercourses and drainage features on the vegetation management watercourse and drainage features map (Stream order shown as black number against stream where available) Roads

National Parks, State Forest and other reserves

Cadastral line Property boundaries shown are provided as a locational aid only LOCALITY DIAGRAM



60 1,440 1,920 2,400 m

This product is projected into: GDA 1994 MGA Zone 56 Labels for Essential Habitat are centred on the area of enquiry.

Regional ecosystem linework has been compiled at a scale of 1:100 000, except in designated areas where a compilation scale of 1:50 000 is available. Linework should be used as a guide only. The positional accuracy of RE data mapped at a scale of 1:100 000 is +/- 100 metres.

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Additional information may be required for the purposes of land clearing or assessment of a regional ecosystem map or PMAV applications. For further information go to the web site: www.dnrme.qld.gov.au or contact the Department of Natural Resources, Mines and Energy.

Digital data for the vegetation management watercourse and drainage feature map, vegetation management wetlands map, essential habitat map and the vegetation management remnant and regional ecosystem map are available from the Queensland Spatial Portal at http://www.information.qld.gov.au/

Legend

27/03/2019 15:51:05

Longitude: 152.97881 Latitude: -27.73743

Vegetation Management Act 1999 - Extract from the essential habitat database

Essential habitat is required for assessment under the:

- State Development Assessment Provisions State Code 16: Native vegetation clearing which sets out the matters of interest to the state for development assessment under the Planning Act 2016; and
- · Accepted development vegetation clearing codes made under the Vegetation Management Act 1999

Essential habitat for one or more of the following species is found on and within 1.1 km of the identified subject lot/s on the accompanying essential habitat map.

This report identifies essential habitat in Category A, B and Category C areas.

The numeric labels on the essential habitat map can be cross referenced with the database below to determine which essential habitat factors might exist for a particular species.

Essential habitat is compiled from a combination of species habitat models and buffered species records.

The Department of Natural Resources, Mines and Energy website (http://www.dnrme.gld.gov.au) has more information on how the layer is applied under the State Development Assessment Provisions - State Code 16: Native vegetation clearing and the Vegetation Management Act 1999.

Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated.

Essential habitat, for protected wildlife, means a category A area, a category B area or category C area shown on the regulated vegetation management map-

- 1) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database; or
- 2) in which the protected wildlife, at any stage of its life cycle, is located.

Protected wildlife includes endangered, vulnerable or near-threatened native wildlife prescribed under the Nature Conservation Act 1992.

Essential habitat in Category A and/or Category B and/or Category C

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
860	Phascolarctos cinereus	koala	V	SEQ: Open eucalypt forest and woodland that has: a) multiple strata layers containing Eucalyptus, Corymbia, Angophora, Lophostemon or Melaleuca trees that-at 1.3 metres above the ground-have a diameter both greater and less than 30 centimetres; and b) at least 1 of the following species: Eucalyptus tereticornis, E. fibrosa, E. propinqua; E. umbra, E. grandis, E. microcorys, E. tindaliae, E. resinifera, E. populnea, E. robusta, E. nigra, E. racemosa, E. crebra, E. exserta, E. seeana, Lophostemon confertus, L. suaveolens, Melaleuca quinquenervia. Outside SEQ: Open eucalypt forest and woodland that contains Eucalyptus &/or Corymbia spp. Tree species used for food varies across State and can include Eucalyptus tereticornis, E. camaldulensis, E. coolabah; E. drepanophylla, E. platyphylla, E. orgadophilla, E. thozetiana, E. melanophloia, E. populnea, E. melliodora, E. dealbata, E. microtheca, E. crebra, E. exserta, E. blakelyi, E. papuana, Corymbia tessellaris, C. citriodora, Melaleuca quinquenervia, M. leucadendra.	Sea level to 1000m.	None	Riparian areas, plains and hill/escarpment slopes.
1171	Calyptorhynchus lathami	glossy black-cockatoo	V	Lowland and highland eucalypt forest and woodland, including riparian, callitris and brigalow scrub areas, with Casuarina (C. glauca, C. cristata)/Allocasuarina spp. (A. torulosa, A. littoralis). Nest in large vertical hollow (1-2m deep, 25-50cm diameter) up to 28m above ground in tall slightly isolated tree usually near principal food source (Allocasuarina/Casuarina).	Sea level to 1200m.	None	None
706	Adelotus brevis	tusked frog	V	In cavities, under debris (logs, stones) in subtropical vine forest, tall open moist forest, heaths, Melaleuca swamp and pasturelands near puddles and streams.	Sea level to 1000m.	None	None
803	Dasyurus maculatus maculatus	spotted-tailed quoll (southern subsp.)	V	Rainforest, wet and dry structurally complex sclerophyll forest (e.g. Eucalyptus andrewsii, E. saligna, E. tereticornis & Corymbia intermedia) on productive soils (gullies & flats) and in rocky areas (ridges), also open woodland (E. alba, E. melliodora, Callitris glaucophylla), coastal heathland (adjacent to forest) and riparian forest. Dens in caves, rock crevices and hollow logs.	Sea level to 1000m.	None	None

Label	Regional Ecosystem (mandatory unless otherwise specified)
860	SEC: 11.3.2, 11.3.4, 11.3.25, 11.3.26, 11.8.2, 11.8.4, 11.8.5, 11.8.8, 11.9.9, 12.2.5, 12.2.6, 12.2.7, 12.2.8, 12.2.10, 12.3.2, 12.3.3, 12.3.4, 12.3.5, 12.3.6, 12.3.7, 12.3.9, 12.3.10, 12.3.11, 12.3.14, 12.3.18, 12.3.19, 12.3.20, 12.5.1, 12.5.2, 12.5.3, 12.5.4, 12.5.6, 12.5.7, 12.5.10, 12.5

Longitude: 152.97881 Latitude: -27.73743

[
Label	Regional Ecosystem (mandatory unless otherwise specified)
1171	631,632,633,634,635,638,639,6316,6317,6318,6324,6325,641,642,643,651,652,653,655,6517,6519,672,675,676,821,823,824,826,827,828,8212,8213,8214,832,833,835,836,836,831,8313,851,852,855,855,855,856,891,8111,8113,8114,8115,8111,6111,8113,8114,8115,8112,81125,8125,8126,8127,8128,8129,8122,81212,81214,81220,81222,91223,93,932,93,93,93,93,93,93,931,931,931,931,931,9
706	8.21, 8.22, 8.23, 8.24, 8.25, 8.26, 8.27, 8.26, 8.27, 8.26, 8.21, 8.214, 8.31, 8.32, 8.33, 8.35, 8.36, 8.38, 8.39, 8.310, 8.311, 8.313, 8.51, 8.52, 8.53, 8.55, 8.56, 8.81, 8.91, 8.101, 8.111, 8.112, 8.113, 8.114, 8.115, 8.116, 8.116, 8.112, 8.122, 8.122, 8.1223, 8.122, 8.1223, 8.1225, 8.1226, 8.1227, 8.1228, 8.1229, 8.1220, 8.1220, 8.1221, 8.1214, 8.1216, 8.1217, 8.1218, 8.1219, 8.1220, 8.1222, 8.1223, 8.1225, 8.1226, 8.1227, 8.1228, 8.1229, 8.1220, 8.1221, 8.1214, 8.1216, 8.1217, 8.1218, 8.1219, 8.1220, 8.1221, 8.1221, 8.1218, 8.1219, 8.1220, 8.1221, 8.1221, 8.1219, 8.1220, 8.1221, 8.1221, 8.1218, 8.1219, 8.1220, 8.1221, 8.1221, 8.1219, 8.1220, 8.1221, 8.1221, 8.1218, 8.1219, 8.1220, 8.1221, 8.1221, 8.1219, 8.1220, 8.1221, 8.1221, 8.1219, 8.1220, 8.1221, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1221, 8.1219, 8.1220, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221, 8.1219, 8.1221,
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Koala Habitat in South East Queensland

This product is projected into GDA 1994 MGA Zone 56

Lot and Plan Koala SPP - Habitat Values **Bushland Habitat High Value Bushland** Medium Value Bushland Low Value Bushland Suitable for Rehabilitation **High Value Rehabilitation** Medium Value Rehabilitation Low Value Rehabilitation Other Areas of Value **High Value Other Medium Value Other** Low Value Other Generally not suitable Water South East Queensland Koala Habitat Values western SEQ **Bushland Habitat** Suitable for rehabilitation Other areas of value Generally not suitable Water **Cadastral Boundaries**

Local Government Boundaries

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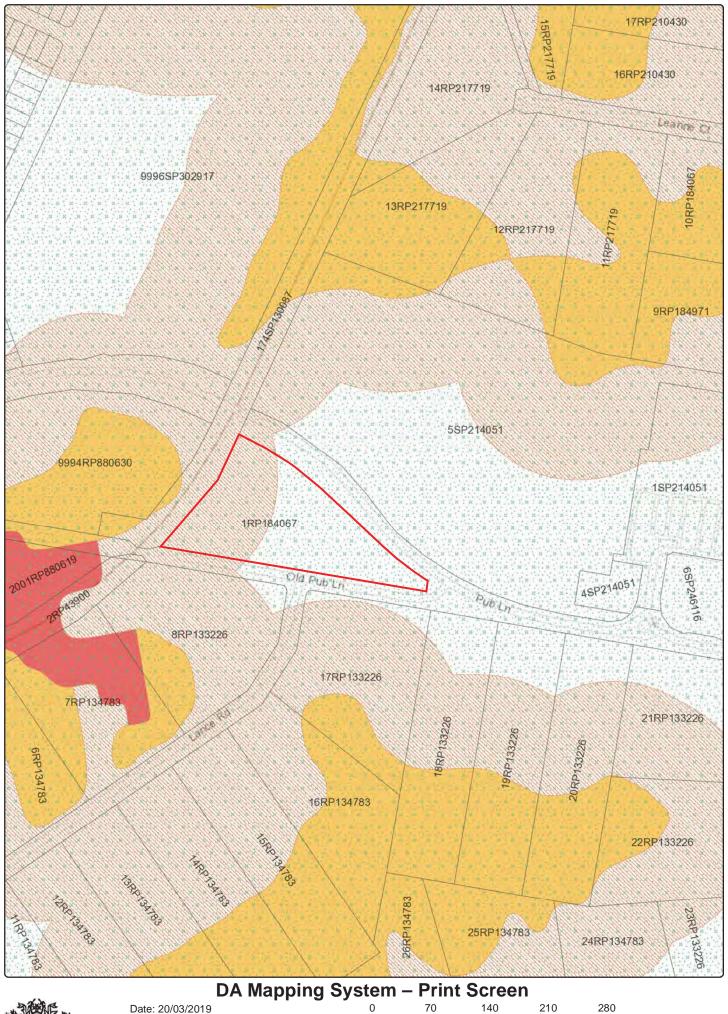
Based on or contains data provided by the State of Queensland 2010.

Note - These maps are not regulatory. Regulatory maps and requirements can be downloaded from the DES website. Further information in relation to regulatory requirements for development and planning activities should be sought from the relevant Local Government Authority or the Department of Environment and Science.

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Metres

Legend

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	Override 1
Cadastre	(5k)
	Cadastre (5k)
Flood haz mapping	zard area - local Government flood area
7 ×	Flood hazard area - local Government flood mapping area
Erosion p	prone area
X	Erosion prone area
High stor	m tide inundation area
5	High storm tide inundation area
Medium s	storm tide inundation area
5	Medium storm tide inundation area
Bushfire	prone area
	Very High Potential Bushfire Intensity
	High Potential Bushfire Intensity
	Medium Potential Bushfire Intensity
	Potential Impact Buffer
Flood haz	zard area - Level 1 - Queensland floodplain

assessment overlay



Flood hazard area - Level 1 - Queensland

floodplain assessment overlay

DA Mapping System – Print Screen



Department of State Development, Manufacturing, Infrastructure and Planning

Date: 20/03/2019



Flora Species List

Scientific Name	Common Name
Native species	
Acacia disparrima subsp. disparrima	hickory wattle
Acacia leiocalyx	,
Allocasuarina littoralis	black she-oak
Alphitonia excelsa	red ash
Angophora leiocarpa	smooth-barked apple
Brachychiton rupestris	narrow-leaved bottle tree
Cheilanthes sieberi subsp. sieberi	Mulga fern
Chrysocephalum apiculatum	golden yellow buttons
Cladium procerum	leafy twigrush
Commelina diffusa	native wandering jew
Corymbia intermedia	pink bloodwood
Corymbia tessellaris	Moreton Bay ash
Cymbopogon refractus	barbed wire grass
Cyperus polystachyos	bunchy sedge
Dianella caerulea	blueberry flax lily
Entolasia stricta	wiry panic
Eragrostis brownii	Brown's lovegrass
Eremophila debilis	winter apple
Eucalyptus crebra	narrow-leaved red ironbark
Eucalyptus propinqua	small-fruited grey gum
Eucalyptus seeana	narrow-leaved blue gum
Eucalyptus tereticornis	Queensland blue gum
Gahnia aspera	red-fruited saw sedge
Glycine tomentella	woolly glycine
Goodenia rotundifolia	trailing goodenia
Imperata cylindrica	blady grass
Kennedia procurrens	
Lomandra confertifolia subsp. pallida	
Lophostemon suaveolens	swamp box
Nymphoides indica	
Ozothamnus diosmifolius	
Parsonsia straminea	monkey rope
Zornia dyctiocarpa	zornia
Macadamia integrifolia	Queensland nut

Scientific Name	Common Name
Exotic	
Agave americana	
Ageratum houstonianum	blue billygoat weed
Caesalpinia ferrara	leopard tree
Callisia repens	money plant
Catharanthus roseus	
Chamaesyce prostrata	red caustic weed
Chloris gayana	Rhodes grass
Cuphea carthagenensis	Columbian waxweed
Dypsis lutescens	golden cane palm
Emilia sonchifolia	emilia
Gamochaeta spp.	cudweed
Gomphocarpus physocarpus	balloon cotton bush
Hypochaeris radicata	flatweed
Jacaranda mimosifolia	jacaranda
Megathyrsus maximus var. pubiglumis	green panic
Melinis repens	red Natal grass
Nymphaea caerulea	water lily
Ochna serrulata	Mickey Mouse bush
Sansevieria trifasciata	
Solanum seaforthianum	
Syagrus romanzoffiana	Cocos palm
Verbena bonariensis	
Asparagus aethiopicus 'Sprengeri'	ground asparagus
Asparagus africanus	asparagus fern
Asparagus plumosus	climbing asparagus fern
Lantana camara	common lantana
Lantana montevidensis	creeping lantana
Sporobolus pyramidalis	giant rat's tail grass



