

Land in Birkdale, Capalaba, Queensland Environmental Investigation

For: Australian Communications and Media Authority
Final

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Australian Communications and Media Authority

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Capalaba, Queensland.

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Environmental Resources Management Australia Pty Ltd Quality System

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EXECUTIVE SUMMARY

This Environmental Report (ER) documents the status of the ACMA land at 362-388 Old Cleveland Road East in Birkdale, Brisbane (the site) following an environmental investigation undertaken in March 2018. The purpose of the ER is to identify any constraints and opportunities at the site pertaining to Matters of National Environmental Significance (MNES) protected under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The ER presents potential environmental, heritage and contamination risks that may be relevant considerations to the future use of the site.

The ER has been compiled primarily based on a desktop review of existing information, including publicly available databases and previous studies pertaining to the site. A one-day field survey was undertaken to verify the desktop information and understand the potential presence of MNES and other environmental matters at the site.

In terms of MNES, one listed threatened ecological community may occur in a small area near Tingalpa Creek (Subtropical and Temperate Coastal Saltmarsh), one listed threatened species (koala) is known to occur at the site. The site also has the potential to support other listed threatened species and may be used by migratory species. Tingalpa Creek, which runs adjacent to the site, drains into Moreton Bay Ramsar Site, a wetland of international importance 5 km downstream of the site. No other MNES are of relevance to the site.

The historic use of the site presents some potential contamination risks. These are associated with: a former incinerator, a former landfill, potential acid sulfate soils, and the presence of sub-surface 3-phase power lines which may contain lead. These contamination risks could potentially present risks to MNES depending on the sites future use, and may require consideration under Queensland provisions for contaminated land.

Desk based searches by Jacobs (2016) identified no registered Indigenous heritage sites situated on or within 50 metres of the site (Jacobs 2016). ERM understands that ACMA is in consultation with traditional owners and carrying out site based studies to identify and record any Indigenous cultural heritage within the site.

ABBREVIATIONS AND DEFINITIONS

ACMA	Australian Communications and Media Authority
ACM	Asbestos Containing Material
AEC	Area of Environmental Concern
ALA	Atlas of Living Australia
AST	Above Ground Storage Tank
CHL	Commonwealth Heritage List
DoEE	Department of the Environment
ER	Environmental Report
MNES	Matters of National Environmental Significance
NHL	National Heritage List
QHR	Queensland Heritage Register
RE	Regional Ecosystem
RNE	Register of National Estate
TEC	Threatened Ecological Community
WHL	World Heritage List
WO	Wildlife Online

INTRODUCTION

The Australian Communications and Media Authority (ACMA) is considering the future use of ACMA property located at 362-388 Old Cleveland Road East, Birkdale, Queensland (the site). Environmental Resources Management Pty Ltd (ERM) were commissioned by ACMA to undertake an environmental investigation to identify potential constraints and opportunities at the site in relation to the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The focus of the environmental investigation considers ecology, heritage and contamination aspects that may potentially affect future use of the site. The findings of the investigation are summarised in this Environmental Report (ER).

1.1

BACKGROUND

The ACMA is a Commonwealth statutory authority responsible for managing media and communication works. With respect to communications, part of the ACMA's function is to regulate use of the radio-frequency spectrum and minimise interference with radio communications. This includes the high frequency (HF) spectrum, which is used for long-range radio communications by services such as aviation, emergency services and Defence.

In November 2014, the ACMA announced an infrastructure sharing agreement with Defence¹. This agreement enabled the ACMA to use the Defence High Frequency Communications System (DHFCS) to identify sources of interference in the HF band. As a result of this improved capability, the ACMA no longer requires its existing HF monitoring facility at Birkdale.

While the future use of the land is not known at the time of preparing this ER, Commonwealth and ACMA Policy requires an understanding of any environment, heritage and contamination risks at the site, specifically as they relate to the EPBC Act, to consider future use options.

1.2

SITE LOCATION

The site is restricted from public access and located on freehold land within the Redland City Council suburb of Birkdale (*Figure 1*). The site area covers 61.78 ha. The coordinates bounding the entire site are provided in *Table 1* below.

¹ ACMA Defence DMO HFDF MOU 2014 <https://www.acma.gov.au/-/media/Spectrum-Monitoring-and-Analysis/Publication/PDF/ACMA-Defence-DMO-HFDF-MOU-2014-11-pdf.pdf>

The site comprises three land parcels, all owned by ACMA, the details of which are presented in *Table 2*.

Table 1 Site boundary coordinates (GDA 94)

Latitude and longitude
-27.514390°, 153.203911°
-27.507704°, 153.207045°
-27.505933°, 153.195436°
-27.507719°, 153.193536°
-27.512563°, 153.201825°
-27.514071°, 153.201510°

Table 2 Lots and Plan Numbers and Area of each lot

Lot No	Plan No	Area
1	RP 14143	38.85
2	RP 14144	7.284
2	SP146445	15.6462

The site is accessed from Old Cleveland Road East, which runs adjacent to its entire western boundary. This is a four lane, two-way thoroughfare that connects Birkdale with the Pacific Motorway (M1), Gateway Motorway (M2) and central Brisbane to the west. Uhlman Road Reserve (unformed) forms the northern boundary. Howeston Golf Course is located to the north-west. Tingalpa Creek and its flood plain adjoins the south-western boundary of the site. The southern boundary, which is approximately 200 m long, abuts a residential cul-de-sac called Jones Road.

Land to the immediate north of the site is owned by Airservices Australia and includes a radio communication facility within cleared grassland, surrounded by woodland. This woodland habitat is contiguous with that found within the site. Residential development surrounds the site to the north (beyond the Airservices Australia land), west and south. To the east of the site, beyond Tingalpa Creek, further tracts of floodplain and remnant woodland habitat are found.

1.3 PURPOSE OF THE ER

The purpose of this ER is to identify:

- Hazards and associated environmental risks at the site;
- Potential constraints under the EPBC Act;
- A summary of relevant State legislation and obligations; and
- Recommendations to manage environmental aspects at the site.

As mentioned above, the scope of the ER does not include a risk assessment of potential future use impact because there is presently no proposal or action relevant to the site. The ER therefore provides baseline information on the existing environment and identifies the potential constraints and opportunities this may have for future use of the site for ACMA's consideration.

1.4

STRUCTURE OF THE ER

Following this introduction, the ER is structured as follows:

- Chapter 2 outlines the methodology undertaken for the ecological, contamination and heritage components;
- Chapter 3 describes the relevant and applicable Commonwealth and State legislative framework;
- Chapter 4 describes the environmental values identified at the site; and
- Chapter 5 presents recommendations for environmental management; and
- Chapter 6 presents the conclusions.

A number of annexes supporting the main body of the ER are also included:

- Annex A – Ecological Desktop Search Reports;
- Annex B – ERM Likelihood of Occurrence Assessment for threatened species at the site; and
- Annex C – ERM Contamination Desktop Search Reports.

This ER has been guided by the approach outlined in the Department of Defence Guidance on the Preparation of an Environmental Report (Version 2.0 November 2017), noting that a proposed action is currently not known, and therefore not being assessed. The preparation of this ER has involved the following tasks:

- Review of existing environment and heritage documentation for the site provided by ACMA and relevant statutory databases;
- Review of applicable Commonwealth and State legislative and planning controls;
- Site scoping visit by ERM project team;
- Analysis of potential environmental, contamination and heritage constraints and opportunities based on the desktop and field studies; and
- Documentation of the above within this ER.

2.1

STUDY TEAM

The ERM study team comprised the five staff presented in *Table 3* below. The team includes specialist consultants in ecology, contaminated land, heritage and environmental science.

Table 3 ERM Study Team

Team Member	Qualifications and Experience
Dr David Dique	David is the Impact Assessment and Planning Partner in ERM's Brisbane office. David has over 20 years of experience in biodiversity and heritage projects, including for Defence. David has a Bachelor of Natural Resources (Hons.), a PhD in ecology and is a Certified Environmental Practitioner.
Pete Jones	Pete is a Principal Environmental Scientist at ERM with 15 years of experience within industry and consulting. Pete has a Bachelor of Science (Hons.), a Master of Science and is a Certified Project Manager.
Brian Fainton	Brian is a Principal Consultant with 15 years' experience in consulting and industry, specialising in contaminated site investigations and assessment. Brian has a Bachelor of Science (Hons.) and a Master of Science, and is a 'Suitably Qualified Person' (as per the provisions of the Environmental Protection Act, 1994) in Queensland.

Team Member	Qualifications and Experience
Robin Twaddle	Robin has four years' experience in cultural heritage in research and consulting spheres. He has fieldwork experience both in Australia and internationally, including excavation, survey, stakeholder consultation, site recording, interpretation, cultural heritage assessments, and logistical organization. Robin has a Bachelor of Arts (Hons.) in archaeology and a PhD in Aboriginal Archaeology.
Frances Alexander	Frances has over four years' experience in ecology and one year in ecological consulting working on a range of environmental impact assessment and management projects. Frances has a Bachelor of Science (Hons.) in zoology, a Master of Environment and a PhD in the ecology field.

2.2

TECHNICAL STUDIES

Environmental baseline information was collected through a combination of desktop studies and a one-day site visit. A number of databases and online information sources were reviewed to inform specific components of the ER as well as to gain an understanding of the broader environmental context of the site. Specific details of the ecological, contamination and heritage methodologies are presented in the following sub-sections. General environmental information was gathered through a review of the Queensland Globe and Redlands City Council Planning Red e-mapping.

2.2.1

Ecology

The scope of the ecology assessment was undertaken as follows:

- Review and analysis of available and relevant reports for the site provided by ACMA;
- Desktop searches for ecological records within 2 km of the site from the:
 - EPBC Act Protect Matters Search Tool (PMST);
 - Commonwealth Department of Environment and Energy (DoEE) Ecological Communities of National Environmental Significance Database;
 - DoEE National Flying-fox Monitoring Viewer;

- Qld Department of Environment and Science (DES) Wildlife Online (WO);
 - DES Matters of State Environmental Significance (MSES) version 4.1 mapping;
 - DES Wetland Management Areas published 21 November 2011;
 - DES Protected Plants Endangered, Vulnerable, Near Threatened (EVNT) Flora Survey Trigger Map version 5;
 - QLD Department of Natural Resources, Mines and Energy (DNRME) Regional Ecosystem version 8.0 mapping;
 - DNRME Regrowth vegetation version 2.1 mapping;
 - DNRME Property Maps of Assessable Vegetation;
 - DNRME Essential Habitat Mapping version 4.45 mapping;
 - DNRME Vegetation Management Wetlands Map version 2.45;
 - Atlas of Living Australia (ALA) (N.B. 5 km search radius);
 - Australian Virtual Herbarium (AVH) database;
 - Redland City Council Planning Red-e map; and
 - Satellite and Aerial Photography (QLD Globe).
- A one-day site visit on 23 March 2018 to:
 - Confirm the extent of vegetation communities identified within desktop mapping;
 - Appraise the habitats at the site for their potential to support listed flora and fauna; and
 - Record all incidental sightings or evidence of notable species, including weeds and pests.
 - An evaluation of the likelihood for threatened species to occur on the site was carried out using the criteria provided in *Table 4*. This compared existing records, mapped distribution and habitat preferences for each species to assess the likelihood of occurrence on the site.

Table 4 Likelihood of Occurrence criteria

Criteria	Suitable habitat exists ¹	Habitat does not exist ²
Records within site area (based on recent database records)	Known	Known
Records in the locality	Potential	Unlikely
No records in locality but site is within species distribution	Potential	Unlikely
No records in locality and not within species distribution.	Unlikely	Unlikely
<ol style="list-style-type: none"> 1. Suitable habitat is based on species profile information and desktop vegetation and other landscape feature mapping. 2. Based on sources reviewed and one-day site visit. 3. Locality refers to a 2 km buffer of the site for Wildlife Online searches and a 5 km buffer of the site for Atlas of Living Australia searches 		

2.2.2

Contamination

The scope of the contamination component of the study included the following:

- Review and analysis of available and relevant reports for the site provided by ACMA;
- Targeted searches of the following databases/information sources;
 - QLD Environmental Management Register and Contaminated Land Register;
 - Current and historic title searches;
 - Geological, soils and topographic mapping;
 - Registered groundwater bores; current land use zoning;
 - Dial-Before-You-Dig searches;
- A telephone interview with ACMA's Site Manager Greg Sherwood to establish historical use of the site for chemical storage, waste disposal, spills, and potential UXOs;
- A one-day site survey on 23 March 2018 to:
 - Establish and record site setting, potential receptors and ground-truth specific Areas of Environmental Concern (AEC);
 - Record GPS coordinates for each potential AEC and complete photographic log per site; and
 - Note any constraints (access, services, and uses) that may impact design of future Detailed Site Investigations (DSI), where appropriate.

2.2.3

Heritage

The heritage assessment considered natural, built and aboriginal heritage. This comprised the following tasks:

- review of Jacob's Heritage Assessment (2016) for the site as provided by ACMA. This included site surveys for natural and built heritage and a desktop study for Indigenous cultural heritage values;
- targeted searches of the following databases/information sources:
 - World Heritage List (WHL);
 - Commonwealth Heritage List (CHL);
 - Register of National Estate (RNE);
 - National Heritage List (NHL);
 - Queensland Heritage Register (QHR);
 - Redland City Council Planning Scheme Heritage Place and Character Precinct Overlay; and
- A one-day site visit to broadly confirm the extent and condition of the heritage features at the site, specifically focussing on built heritage.

2.3

LIMITATIONS OF THE ER

This ER has been prepared to identify existing environmental and heritage values of the site and opportunities and constraints for future use. The information presented is based on searches of relevant desktop sources, previous reports prepared for the site (as provided by ACMA) and a one-day site visit. No detailed inspections, sampling or targeted surveys were carried out on-site or across seasons.

3.1 ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999 (C'WTH)

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is the Australian Government's central piece of environmental legislation. It provides the legal framework to protect and manage Matters of National Environmental Significance (MNES). MNES listed under the EPBC Act are:

- World Heritage Properties;
- National Heritage Places;
- Wetlands of international importance (Ramsar wetlands);
- Listed threatened species and ecological communities;
- Migratory species;
- Commonwealth marine areas;
- The Great Barrier Reef Marine Park
- Nuclear actions; and
- A water resource, in relation to coal seam gas development or large coal mining development.

Part 3, Division 1 of the EPBC Act requires actions that have, will have or are likely to have a significant impact on a matters of National Environmental Significance (NES) to seek approval from the Australian Government Minister.

In addition to Part 3, two further sections of the EPBC Act are of particular relevance to the present ER:

- Section 26 - which precludes actions on Commonwealth land that have, or likely to have a significant impact on the environment; and
- Section 28 - which precludes Commonwealth agencies (including ACMA) from undertaking actions without prior approval where those actions have the potential to have a significance impact on the environment.

Under sections 26 and 28, the definition of 'the environment' is broader than MNES and includes:

- Ecosystems and their constituent parts, including people and communities; and
- Natural and physical resources; and
- The qualities and characteristics of locations, places and areas; and
- Heritage values of places; and
- The social, economic and cultural aspects of a thing mentioned in paragraph (a), (b) or (c).

3.2 STATE LEGISLATION

As a Commonwealth agency, ACMA is not subject to State and local government legislation and regulations. However, this information can assist in considering environment and heritage issues and identifying an appropriate course of management, ensuring EPBC Act compliance. Further discussion of relevant and applicable State legislation is provided in below.

3.2.1 *Environmental Protection Act 1994 (Qld)*

The EP Act provides the key legislative framework for environmental management and protection in Queensland. The objective of the EP Act is to: 'Protect Queensland's environment while allowing for development that improves the total quality of life, both now and in the future, in a way that maintains ecological processes on which life depends' (s 3). Under the EP Act, all persons must comply with the general environmental duty not to undertake an: 'Activity that causes, or is likely to cause, environmental harm unless... all reasonable and practicable measures to prevent or minimise the harm are taken' (s 319).

3.2.2 *Environmental Offsets Act 2014 (Qld)*

The Environmental Offsets Act 2014 (EO Act), Environmental Offsets Regulation 2014 and the Queensland Government Environmental Offsets Policy provide a streamlined framework for environmental offset requirements. Offsets are required where there is an unavoidable impact on State significant environmental values. In addition, an environmental offset can only be required if impacts from a prescribed activity constitute a significant residual impact.

To avoid duplication with offsets required under the EPBC Act, the policy provides that the administering agency must consider other relevant offset conditions for the same or substantially the same prescribed impact.

3.2.3 *Nature Conservation Act 1992 (Qld)*

The objective of the Nature Conservation Act 1992 (NC Act) is the conservation of nature (plants and animals) within Queensland. Specifically, the NC Act seeks to gather relevant information, identify critical habitat areas, manage protected areas, protect wildlife and promote ecologically sustainable development. The NC Act has 10 subordinate regulatory instruments in the form of regulations, conservation plans and notices. Of relevance to the Project is the Nature Conservation (Wildlife) Regulation 2006 which categorises flora and fauna species as extinct in the wild, endangered, vulnerable, near threatened or of least concern. Also listed is international wildlife and prohibited wildlife.

3.2.4 *Vegetation Management Act 1999 (Qld)*

The Vegetation Management Act 1999 (VM Act) regulates the conservation and management of vegetation communities and provides protection for regional ecosystems (RE) classified as 'endangered', 'of concern' or 'least concern' under the VM Act. The clearing of native vegetation for the Project will need to meet the provisions of the VM Act under Schedule 24 Part 1, Item 1 (6) of the SP Regulation.

3.2.5 *Biosecurity Act 2014*

The objectives of the Biosecurity Act 2014 (Biosecurity Act) are to provide biosecurity measures against pests, disease and contaminants. The Biosecurity Act has replaced the many separate pieces of legislation that were used to manage biosecurity, including the superseded Land Protection (Pest and Stock Route Management) Act 2002. The Biosecurity Act is used to manage risks associated with emerging, endemic and exotic pests and diseases that can impact on industry, the built environment, animals, biodiversity, the natural environment, tourism and infrastructure services. Pest species will be managed under the Act.

3.2.6 *Aboriginal Cultural Heritage Act 2003 (Qld)*

The ACHA aims to recognise, protect and conserve places of Aboriginal cultural heritage significance. Under the ACHA, the DATSIP maintain a register and database of more than 18,000 known significant places within Queensland, which may be accessed prior to developing a site. There is no permitting or licensing system in place under the ACHA, however, developers

in Queensland have a duty of care to ensure that Aboriginal heritage is identified and protected through complying with the Duty of Care Guidelines.

Aboriginal cultural heritage is defined as anything that is; a significant Aboriginal area in Queensland; or a significant Aboriginal object; or, evidence, of archaeological or historic significance, of Aboriginal occupation of an area of Queensland (Section 8).

The concept of 'significance' is defined as anything that is of particular significance to Aboriginal people because of either or both of the following: (a) Aboriginal tradition; or (b) the history, including contemporary history, of any Aboriginal Party for the area (Sections 9 and 10).

3.2.7 *Queensland Heritage Act 1992 (Qld)*

The primary piece of historic places cultural heritage legislation in Queensland is the QHA, administered by the Department of Environment and Science (DES). It makes provision for the conservation of Queensland's cultural heritage by protecting all places and areas listed on the QHR. The QHR is a list of all places that are important for their rarity or representativeness or for their aesthetic, architectural, archaeological, social and historical contributions to the development of Queensland.

3.3 *CONSULTATION*

As part of the project, Environmental Resources Management Australia Pty Ltd (ERM) obtained information from ACMA through a telephone conversation with ACMA personnel (Greg Sherwood) to provide historical context of the site. No public consultation was undertaken in preparation of this ER.

4.1

GENERAL SITE DESCRIPTION

The site is approximately 62 ha in size and has a relatively flat topography. The land broadly slopes from the north to south, draining towards a tidal section of Tingalpa Creek and its associated flood plain.

Historically the site was settled in the late 1800s for pasture and agriculture. During WW2 part of the site was developed to provide radio communication infrastructure, which has been in continual use until recently.

The majority of the site comprises woodland habitat with cleared areas occurring in the centre of the site where communication operations occurred. The woodland areas comprise remnant and regrowth vegetation. The types of woodland vegetation varies across the site reflecting local changes in soils and drainage. A bushfire at the site in December 2017 has removed much of the scrub and ground layer of woodland in the centre of the site. A small area of saltmarsh is found in the south of the site adjacent to Tingalpa Creek.

The cleared areas comprise open rank grassland which is regularly maintained (mowing was occurring at during the site visit). The communications infrastructure remaining on site comprises:

- The main building (accessed by a sealed road from the site access point on Old Cleveland Road East);
- Guard house (derelict and vandalised); and
- Footings of a large antenna array (accessed by an unsealed track from the sealed road).

The photographs below present examples of the above features recorded at the site during the ERM scoping visit.

Photograph 4.A Example of mature woodland at the site



Photograph 4.B Comparison of bushfire affected area with un-affected area. Note removal of understorey vegetation due to bushfire.



Photograph 4.C Main Building



Photograph 4.D Open Grassland habitat at Antenna Array in centre of site (Antenna recently dismantled and removed)



4.2.1 *MNES Overview*

Table 5 below identifies the MNES of relevance to the site. The results are based on ERM's desktop studies and one-day site visit as well as ERM's likelihood of occurrence assessment for threatened species.

Three MNES have been identified as being relevant to the site. These are: Moreton Bay Ramsar Site, Listed Threatened Species and Ecological Communities and Migratory species. Further discussion on these MNES is provided in the following sub-sections.

Table 5 *MNES at the Site*

MNES	Present	Comment
World Heritage Properties	No	The site is not located within a World Heritage Property.
National Heritage Places	No	ERM notes that the site was publically nominated for listing on the Commonwealth Heritage Register as Birkdale Monitoring Station (Place ID 106320). However, this nomination is understood to have lapsed. Jacob's (2016) Heritage Assessment did not consider the site as being of National Heritage Significance.
Wetlands of international importance (Ramsar wetlands)	Yes	Tingalpa Creek which abuts the site flows into part of Moreton Bay Ramsar Site 5 km downstream of the site.
Listed threatened species and ecological communities	Yes	One listed threatened species is confirmed at the site and 12 other species have the potential to occur. One Threatened Ecological Community is likely to be present - Subtropical and Temperate Coastal Saltmarsh.
Migratory species	Yes	The site has some potential to be used by migratory bird species.
Commonwealth marine areas	No	The site is not located within a Commonwealth Marine Area.
The Great Barrier Reef Marine Park	No	The site is not located within the Great Barrier Reef Marine Park.
Nuclear actions	No	No nuclear actions are occurring on site.
A water resources in relation to CSG and large coal mining development	No	Not applicable.

4.2.2 *Wetlands of International Importance - Moreton Bay Ramsar Site*

Moreton Bay Ramsar Site is located 5 km downstream of the site along Tingalpa Creek. The section of the Tingalpa Creek adjacent to the site is tidal and exchanges estuarine water with Waterloo Bay, part of the larger Morton Bay Ramsar Site.

Moreton Bay Ramsar Site is designated for:

- significant breeding and feeding populations of green turtle (*Chelonia mydas*), hawksbill turtle (*Eretmochelys imbricata*), loggerhead turtle (*Caretta caretta*) and dugong (*Dugong dugon*);
- Its function as a major coastal ecosystem receiving flows from all rivers and creeks east of the Great Dividing Range from the McPherson Range in the south to the north of the D'Aguilar Range;
- Marine invertebrate and mangrove species diversity;
- Supporting 50,000 migratory shorebirds, including 1% of the flyway population of Eastern curlew (*Numenius madagascariensis*) and grey-tailed tattler (*Tringa brevipes*).

The site does not contribute to any of the key features for which the Moreton Bay Ramsar site was designated. Of note, however, is Tingalpa Creek which receives surface drainage from the site and carries flows into this Ramsar Site.

4.2.3 *Listed Threatened Species and Ecological Communities*

Threatened Species

Based on the results of the desktop searches (*Annex A*) and subsequent assessment of likelihood of occurrence for threatened species (*Annex B*), and as summarised in *Table 6*:

- One listed mammal species is known to occur at the site;
- Two listed flora species have the potential to occur;
- Four listed mammal species have the potential to occur; and
- Six listed bird species have the potential to occur.

Table 6

MNES known or with potential to occur at the site

Scientific Name	Species Name	EPBC Act Status	Likelihood of Occurrence
Plants			
<i>Phaius australis</i>	Lesser swamp-orchid	Endangered	Potential
<i>Samadera bidwillii</i>	Quassia	Vulnerable	Potential
Mammals			
<i>Phascolarctos cinereus</i>	Koala	Vulnerable	Known
<i>Petauroides volans</i>	Greater glider	Vulnerable	Potential
<i>Potorous tridactylus tridactylus</i>	Long-nosed potoroo	Vulnerable	Potential
<i>Pteropus poliocephalus</i>	Grey-headed flying-fox	Vulnerable	Potential
<i>Xeromys myoides</i>	Water mouse	Vulnerable	Potential
Birds			
<i>Anthochaera phrygia</i>	Regent honeyeater	Critically endangered	Potential
<i>Botaurus poiciloptilus</i>	Australasian bittern	Endangered	Potential
<i>Calidris ferruginea</i>	Curlew sandpiper	Critically endangered	Potential
<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit	Vulnerable	Potential
<i>Limosa lapponica menzbieri</i>	Northern Siberian bar-tailed godwit	Critically endangered	Potential
<i>Numenius madagascariensis</i>	Western curlew	Critically endangered	Potential

A single koala was recorded during the site visit. The koala was spotted within vegetation at the west of the site, close to the site boundary within an area of woodland vegetation (Figure 2). The Redland City Council e-mapping tool identified a large proportion of vegetation within the site as being remnant or regrowth koala habitat (Figure 2). The western portion of the regrowth koala habitat had been affected by the bushfire and was devoid of ground vegetation. The area which had not been burnt appeared to be in relatively good condition.

No other listed species were observed during the site visit, but targeted surveys were not specifically carried out.

Threatened Ecological Communities

Subtropical and Temperate Coastal Saltmarsh TEC was confirmed as potentially being present within approximately 0.7 ha in the west of the site. This area corresponds with Queensland Government Regional Ecosystem

12.1.2 (mangrove shrubland to low closed forest on marine clay plains and estuaries) mapped in the same area (Figure 3).

This community is located on a meander within Tingalpa Creek. Saltmarsh communities rely on inundation by tidal flows. A number of vehicle tracks were visible through the area but overall the community was considered to be in relatively good condition. No other TECs are likely to occur at the site.

4.2.4

Listed Migratory Species

The PSMT identified the potential for 18 listed migratory species to occur at the site. The list includes nine wetland species and nine woodland species. Eastern curlew is also listed as a threatened species and is considered to have potential to occur.

- Bar-tailed godwit (*Limosa lapponica*)
- Black-faced monarch (*Monarcha melanopsis*)
- Common greenshank (*Tringa nebularia*)
- Common sandpiper (*Actitis hypoleucos*)
- Curlew sandpiper (*Calidris ferruginea*)
- Eastern curlew
- Fork-tailed swift (*Apus pacificus*)
- Latham's snipe (*Gallinago hardwickii*)
- Oriental cuckoo (*Cuculus optatus*)
- Red knot (*Calidris canutus*)
- Rufous fantail (*Rhipidura rufifrons*)
- Satin flycatcher (*Myiagra cyanoleuca*)
- Sharp-tailed sandpiper (*Calidris acuminata*)
- Spectacled monarch (*Monarcha trivirgatus*)
- White-throated needletail (*Hirundapus caudacutus*)

The site visit recorded no migratory species incidentally using the site. The woodland and saltmarsh habitats at site have some potential to be used by these migratory species. However, the overall area of suitable habitat available means large congregations of migratory species are unlikely to occur. If these species were to occur at the site then it would be expected that this use would be

occasional and limited to low numbers of individuals. Moreton Bay Ramsar 5 km downstream of the site along Tingalpa Creek is likely to frequently support many of these migratory species and with higher abundance.

4.3 *BROADER ENVIRONMENTAL CONSIDERATIONS*

This section presents information on the broader environment within the site. These aspects are not listed as MNES but provide information on broader environmental aspects, which could affect MNES values at the site.

4.3.1 *Contamination*

Following the desktop review, site visit and interview with the ACMA Site Manager, the following presents a summary of contamination issues at the site.

Current and Historical Titles for the site have been obtained and reviewed as far back as 1864 (*Annex C*). A number of lot reconfigurations have occurred over this time. The site has been the property of the Australian Communications Authority since 1998. Prior to this, a small number of landholders had interest in the lots, which corresponds with the known agricultural and Defence uses of the land. The historical ownership does not suggest any additional potentially contaminating uses beyond those previously identified at the site by previous studies (Cardno, 2000). These include the following (refer *Figure 4* for locations):

- An old livestock dip adjacent to Old Cleveland Road;
- The site of a dismantled above ground storage (diesel) tank (AST); and
- The insecticide treated foundations and surrounds of the control (main) building
- An old landfill area, located approximately 40m from the western corner of the Main Building; and
- An old incinerator.

As the site is registered as being Commonwealth Land, none of the lots are listed on the EMR or CLR (which is a register of contamination on State-owned land only).

The last known use of the livestock dip was circa 1953 (Cardno MBK, 2000). Cardno MBK undertook a remediation program between 2001 and 2004 to remove soils impacted with arsenic from the livestock dip location. A final validation letter report (Cardno MBK, 2004) was submitted to the Administering Authority on 7th January 2004 to determine a ruling on whether the remaining levels of impact (a single elevated arsenic reading of 180 mg/kg was identified) were acceptable. No response from the Administering

Authority has been sighted in the material provided for review by ERM. During the ERM site, visit access to former livestock dip area was restricted by dense vegetation (tall grasses) which prevented a more thorough investigation. However, it is assumed that it has been remediated based on documentary evidence.

The AST was removed from site in 1994. A soil sample taken beneath the known location of the former AST identified only residual levels of hydrocarbons below the adopted assessment criteria. The footings of the former AST were identified by ERM adjacent to the Generator Shed during the site visit. The presence of potential asbestos contaminated material (ACM) was identified in building materials relating to the Generator Shed, however, no ACM was identified on surface soils nearby.

Termite treatment was reported to have been carried out on the Main Building in 1995 via directional drilling under the building slab. No evidence of stressed vegetation was observed in these areas during the site visit. It is concluded that any residual chemical treatment would exist under the slab only and should require no further treatment.

The old landfill area was identified during the ERM site visit. It was thought that this area was used to bury old metal radio chassis and radio cabinet racks, and expected to contain metal only. There was no evidence of raised ground/fill material, and no evidence of stressed vegetation.

The old incinerator area was reportedly used to burn papers and some microfiche, and was not regarded as being potentially contaminated by Cardno (2000). This situation is unlikely to have changed.

The Main Building is subject to hazardous materials, such as asbestos in floor tiles and wall linings (refer to Enviro Protect Pty Ltd certificate of analysis, 2012). A large raised concrete structure was present at the time of the site survey on the north-west side of the Main Building, thought to be either an interceptor/grease trap or sewage pit. In addition, a raised area of grass/fill material was identified on the central southern fence boundary. This was thought to be either fill material or a sewage pit.

The HFDF Antennae Array have been removed from site. Only a central building, thought to be constructed of concrete, remains, along with several concrete footings for the aerial anchors. This area was levelled, however, it appears to have been cut and filled in-situ. It is not anticipated that (potentially uncontrolled) fill has been brought to site for this purpose.

Based on ERM's discussion with ACMA's Site Manager, it is understood that a large, 3-phase power cable runs through the property to the Main Building, although its exact location is unknown. The cable was installed in the 1930's and may comprise hazardous materials such as lead.

No other disturbed or potentially contaminated areas were identified on-site. There has been no other known bulk storage of Dangerous Goods (fuels, chemicals, etc.) on site based and no reported leaks, spills or other environmentally relevant incidents on site, based on discussions with the Site Manager.

Acid Sulfate Soils

The tidal areas of Tingalpa Creek are mapped as potential acid sulfate soils with the remainder of the site also having some potential for these soils (*Figure 5*). Acid sulfate soils are common in low lying tidal environments and have the potential to cause pollution when excavated and exposed to air. On exposure to air these soils oxidise and produce sulphuric acid and mobilise heavy metals into water. This pollution can cause environmental harm by killing plants, fish and other aquatic animals in and around affected creeks. Given the connectivity of Tingalpa Creek to Moreton Bay Ramsar Site, the effects of any disturbance of acid sulfate soils on the site could extend downstream to the Ramsar site if not appropriately managed.

Summary

In summary, potential current AEC's are limited to the following four aspects:

- Potential for metals or other residual contaminants in ash that may be related to the former incinerator area;
- Potential for metals or other residual contaminants that may be related to the former landfill area;
- The presence of the sub-surface 3-phase power lines which may contain hazardous construction materials such as lead; and
- Potential for acid sulfate soils, particularly to the southern end of the site adjacent to Tingalpa Creek.

4.3.2

Water Resources

Hydrology

The site is located in the lower Tingalpa and Coolnwynpin catchment, which is approximately 34 km² in size. Tingalpa Creek is identified as a significant regional wildlife corridor in the Biodiversity Planning Assessment for the South East Queensland Bioregion. It flows into Waterloo Bay which forms part of the Moreton Bay Ramsar Site. No water quality data is available from the Redlands Waterway Recovery Report (2017) for Lower Tingalpa Creek. However, water quality monitoring upstream on Coolnwynpin Creek approximately 2 km south of the site, indicates that this creek is in moderate condition.

Redland City Council flood mapping identifies areas of the northeast and northwest of the site as 'flood prone areas' (Figure 6). The southwest boundary of the site is mapped as a 'storm tide area', while a small area extending approximately 250 m into Lot 2/SP146445 and Lot 2/RP14144 are mapped as 'flood prone'.

Running water was observed to be crossing the site flowing towards Tingalpa Creek along man-made swales existing within developed areas. Woodland areas adjacent to Tingalpa Creek were relatively waterlogged, with drainage impeded by the clay soils.

Changes to the site's hydrology could potentially affect MNES by adversely affecting the condition of habitats dependent on the existing site hydrology. In particular, this includes the saltmarsh habitat in the west of the site.

Hydrogeology

There are no known registered groundwater bores on-site. A Department of Natural Resources and Mines bore search for nearby registered groundwater bores indicated there are seven groundwater bores within 1.0 km of the site. The bore search results suggest that all the bores are used for water supply. It is unknown if the bores are used for industrial or domestic water supply, however some bore flow rates are quite low indicating that they would not be suitable for an industrial supply. Most of the bores report quality suitable for potable use.

A summary of the existing groundwater bore results is provided in Table 7.

Table 7 *Summary of Existing Registered Groundwater Bores*

Bore Registered Number (RN)	Approx. location	Total depth (m)	Standing water level (SWL) (m)	pH	Conductivity (uS/cm)	Yield (L/s)	Quality
RN 79640	290m South east	27.0	-	5.5	200	-	Potable
RN 145683	460m South east	51.0	-21.0	-	-	0.13	150 ppm salt
RN 133707	350m East	36.0	-	-	130	1.52	Potable
RN 145270	550m North	20.60	-14.0	-	-	0.30	ID
RN 138886	800m North	24.0	-5.0	-	-	0.60	600 ppm
RN 138666	960m North	42.0	-15.0	-	-	1.80	Potable
RN 152005	880m South west	27.0	-9.0	-	-	0.25	400 ppm
ID - Indeterminable							
No data available							

No groundwater dependent ecosystems were recorded at the site. Changes to the existing hydrogeology is unlikely to affect MNES. Tingalpa Creek is likely to receive groundwater from the local area and any pollution of groundwater at the site could be transported to Moreton Bay Ramsar via Tingalpa Creek.

4.3.3 *Bushfire*

A bushfire occurred at the site on 30th January 2018 (QFES 2018). A Fire Investigation Report by the Queensland Fire and Emergency Services states that the fire involved an area of 44 ha. Based on information provided in the report, the fire originated in Lot 2/SP146445, and travelled in a northwesterly direction through Lots 2/RP14144 and 1/RP14143. The report states that areas of lightly timbered bush to the west and east displayed charring of bark, ash splatter and leaf freeze. The open grassed areas displayed grass sweep and leaf freeze on low-level shrubs.

Evidence of the bushfire was observed during the site visit. The fire appeared to have removed the ground layers within the woodland areas of the site, mainly to the north of the main building. Conversely, areas, which had not been affected by the bushfire, supported relatively dense understory vegetation and was noted to be in much better condition. This included the woodland areas at the north, centre and south of the site. The effects of the bushfire are likely to be temporary, however, and regeneration of understorey vegetation is expected to occur over the short to medium term. The site is mapped by Redlands Council as being of high and medium bush fire risk (*Figure 6*).

Bushfire is likely to present a risk to the maintenance of MNES at the site, in particular koalas and other threatened species. Bushfire affects the suitability of the site for these species, albeit temporarily.

4.3.4 *Vegetation*

The site supports regional ecosystems (REs) classified as endangered, of concern and not of concern (*Figure 3*). REs present on the site and descriptions of the associated native species are available in *Table 8*. The site visit confirmed that the extent and types of REs mapped at the site were broadly correct.

Table 8 Regional ecosystems on the site

RE	VM Act Status	RE description
12.5.3	Endangered	<i>Eucalyptus racemosa</i> subsp. <i>racemosa</i> woodland on remnant Tertiary surfaces
12.3.11/12.3.6	Of concern	12.3.11 <i>Eucalyptus tereticornis</i> +/- <i>Eucalyptus siderophloia</i> , <i>Corymbia intermedia</i> open forest on alluvial plains usually near coast
	Least concern	12.3.6 <i>Melaleuca quinquenervia</i> +/- <i>Eucalyptus tereticornis</i> , <i>Lophostemon suaveolens</i> , <i>Corymbia intermedia</i> open forest on coastal alluvial plains
12.1.2	Least concern	Saltpan vegetation including grassland, herbland and sedgeland on marine clay plains
12.1.1	Of concern	<i>Casuarina glauca</i> open forest to low open woodland. Occurs on margins of Quaternary estuarine deposits.
12.1.3	Least concern	Mangrove shrubland to low closed forest on marine clay plains and estuaries

Source: DNRM Regional Ecosystem mapping
VM Act = Vegetation Management Act

The woodland at the site forms part of an ecological corridor and buffer zone either side of Tingalpa Creek. With no public access to the site and in combination with Howeston Golf Course to the west, the site provides a relatively undisturbed area of natural habitat in an otherwise developed location. This situation is likely to enhance the natural areas of the site to biodiversity. MNES, including koalas, are likely to use the woodland habitats surrounding the site as habitat or corridors.

4.3.5 Other Flora And Fauna Values

Native fauna species identified in Wildlife Online and Atlas of Living Australia searches are included in Annex A. Species that are not listed under the EPBC Act, but are listed under the Queensland *Nature Conservation Act 1992* include:

- Eastern osprey (*Pandion cristatus*) – special least concern
- Powerful owl (*Ninox strenua*) - vulnerable
- White-tailed tropicbird (*Phaethon lepturus*) - special least concern

The radio masts at the site provide potential nesting sites for osprey but no evidence of nesting was observed. The woodland habitats at the site are likely to be too small to support powerful owls, which require larger tracts of forest for breeding and feeding. White-tailed tropicbird is a pelagic species and none

of the habitats at the site are used by this species. Its record is likely to be of a vagrant bird.

The following 15 species of invasive species have been identified within the site's locality, including Weeds of National Significance.

- Asparagus Fern (*Protasparagus densiflorus*)
- Bitou Bush (*Chrysanthemoides monilifera* subsp. *rotundata*)
- Blackberry (*Rubus fruticosus* aggregate)
- Cat's Claw Vine (*Dolichandra unguis-cati*)
- Delta Arrowhead (*Sagittaria platyphylla*)
- Fireweed (*Senecio madagascariensis*)
- Hymenachne (*Hymenachne amplexicaulis*)
- Lantana (*Lantana camara*)
- Mesquite (*Prosopis* spp.)
- Parthenium Weed (*Parthenium hysterophorus*)
- Prickly Pears (*Opuntia* spp.)
- Rubber Vine (*Cryptostegia grandiflora*)
- Salvinia (*Salvinia molesta*)
- Water Hyacinth (*Eichhornia crassipes*)
- Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow (*Salix* spp. except *S.babylonica*, *S.x calodendron* & *S.x reichardtii*)

A number of invasive fauna species were identified as occurring within the site locality and include:

- Cane Toad (*Rhinella marina*)
- Cat (*Felis catus*)
- Pig (*Sus scrofa*)
- Red Fox (*Vulpes vulpes*)
- European Rabbit (*Oryctolagus cuniculus*)

Weed and pest populations at the site appeared to be low.

4.3.6 *Built Heritage*

The United States Army constructed the ACMA receiving station in 1943 during WW2. The site is unique as the only radio receiving station dating from the mid-20th century in Australia that is directly related to the US Army. Consequently, the site has been identified as being of State level significance to heritage Jacobs (2016). In particular, Jacobs (2016) considered the Main Building to be of greatest heritage value (refer *Figure 7* for locations).

Willard's Farm abuts the southeastern corner of the site and is listed as a local heritage site within the Redlands Council Area (*Figure 7*). Willard's Farm was established in 1860 as an original homestead associated with the first farm at the site. Chain-link and barbed wire fencing fence off the property and the homestead is set back from the site, accessed from Old Cleveland Road East.

4.3.7 *Aboriginal Cultural Heritage*

There are no registered Indigenous heritage sites situated on or within 50 metres of the site (Jacobs 2016). However, the location of the ridgeline overlooking the Tingalpa Creek was identified as a suitable location for potential Indigenous campsites. ERM understands that ACMA is in consultation with traditional owners and carrying out site based studies to identify and record any Indigenous cultural heritage within the site. Any recommendations arising from this consultation should be considered, as appropriate, to protect Indigenous cultural heritage values if present.

CONCLUSIONS AND RECOMMENDATIONS

ERM has completed an environmental investigation of the ACMA property located at 362-388 Old Cleveland Road East, Birkdale (the site). The investigation aimed to identify the potential for MNES listed under the EPBC Act, as well as other notable features relating to the environment (heritage and contamination) to occur within the site.

While the site is not located within any site designated under the EPBC Act, The site is located 5km upstream of Moreton Bay Ramsar Site, connected by Tingalpa Creek. Future use of the site has some potential to affect this Ramsar Site indirectly should water quality within Tingalpa Creek be impacted.

The survey confirmed the presence of one threatened listed species (koala) as well as the potential presence of other listed threatened and migratory species. The woodland and riparian areas are considered to be of greatest biodiversity value to support listed species. In addition, there is potential for Subtropical and Temperate Coastal Saltmarsh TEC to be present in a small area in the vicinity of Tingalpa Creek.

Under the EPBC Act, any actions that have, or are likely to have, a significant impact on an MNES require approval from DoEE. Thus, any proposal for future use of the site needs to assess whether the 'action' will lead to a significant impact on MNES and, subsequently, refer the action to DoEE for assessment and approval as appropriate to the scale, nature and impact of the action.

The site does not support heritage values of significance under the EPBC Act. Any future use of the site affecting its built heritage will not require assessment and approval under the EPBC Act.

Contamination risks at the site are limited to three historic contaminating activities on the site and areas mapped as potential acid sulfate soils. These risks could potentially indirectly impact on MNES through the release of pollutants into the environment upon disturbance.

The following should be considered as part of any deliberations for the future use of the site:

- Given the site is Commonwealth Land, any proposed action (including development, leasing or divestment) where there is potential for a significant impact to MNES will require a Referral to be prepared and submitted to DoEE. The assessment should rely on the following relevant guidance to determine whether an action is likely to significantly impact on MNES:
 - Significant Impact Guidelines 1.1 Matters of Environmental Significance;
 - Significant Impact Guidelines 1.2 Actions on, or impacting upon, Commonwealth land and Actions by Commonwealth Agencies;

- Opportunities for the site to be used as a receiving site for environmental offsets, in accordance with Commonwealth or Queensland offset regulations, due to its current value to koalas, other MNES and MSES that could be potentially present;
- The site is suitable for its current use, however potential contamination risks may need to be further assessed relevant to the proposed future use of the site (which is currently unknown) and managed in accordance with relevant Queensland provisions for contaminated land; and
- There may be opportunities and constraints associated with local government planning schemes and requirements (with Redland City Council) and Indigenous cultural heritage requirements that have not been a part of this investigation.

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Figures



Legend

- Site Boundary
- ▭ Site Cadastral Lots



Site Plan

Drawing No: 0452825b_EA_G001_R0.mxd
 Date: 29/03/2018 Drawing Size: A4
 Drawn By: DR Reviewed By: FA
 Coordinate System: GDA 1994 MGA Zone 56

Environmental Assessment for ACMA Land
 Birkdale, Capalaba, QLD
 Client: Australian Communications and Media Authority



Source:
 Imagery - nearmap 14th Feb 2018
 Cadastre - QLD DNRM 2018

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.

1



Legend

- Land**
- Environmental**
- RCC Koala Habitat**
- RE Remnant Koala Habitat
 - RE Regrowth Koala Habitat
 - Urban Koala Habitat Trees
 - Koala Sighting (Fieldwork March 2018)

Source:
 Redlands City Council - 2018
<http://gis.redland.qld.gov.au/redemap/>

Koala Habitat

Drawing No: 0452825b_EA_C001_R0.cdr
 Date: 01/01/2016 Drawing size: A4
 Drawn by: DR Reviewed by: FA

Environmental Assessment for ACMA Land
 Birkdale, Capalaba, QLD
 Client: Australian Communications and Media Authority

Drawing to Approximate Scale
 0 50 100 200m



This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.





Legend	
	Site Boundary
RE Type	
	12.1.1
	12.1.1/12.1.3
	12.1.2
	12.1.3
	12.1.3/12.1.2
	12.1.3/estuary/12.1.1
	12.3.11
	12.3.11/12.3.3
	12.3.11/12.3.6
	12.3.6
	12.5.2
	12.5.3
	12.9-10.4

Regional Ecosystem (RE) Types

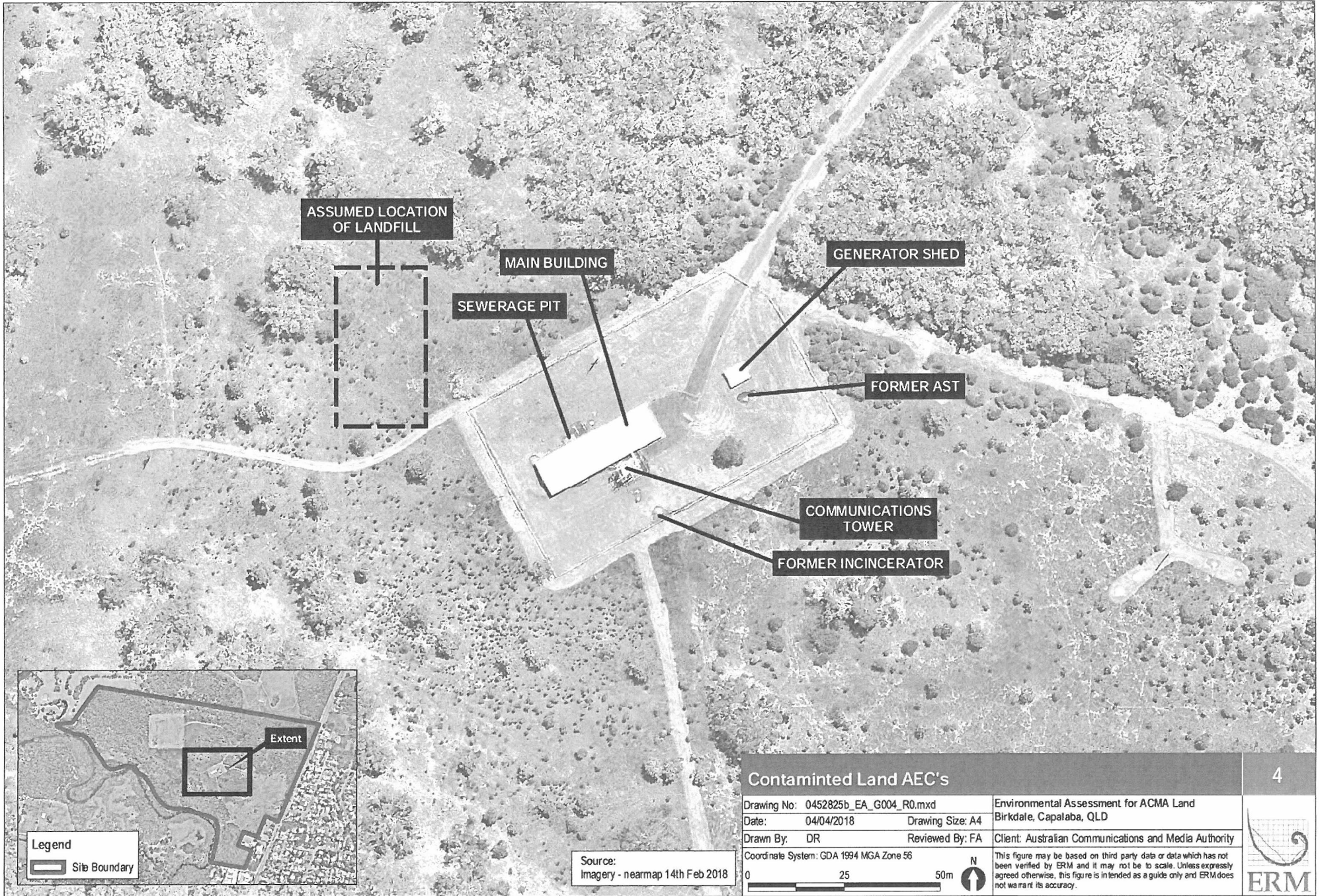
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 Date: 04/04/2018 Drawing Size: A4
 Drawn By: DR Reviewed By: FA
 Coordinate System: GDA 1994 MGA Zone 56
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Environmental Assessment for ACMA Land
 Birkdale, Capalaba, QLD
 Client: Australian Communications and Media Authority

This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.

Source:
 Imagery - nearmap 14th Feb 2018
 Cadastre - QLD LPI 2017
 Vegetation - QLD DNRM 2018





ASSUMED LOCATION
OF LANDFILL

MAIN BUILDING

GENERATOR SHED

SEWERAGE PIT

FORMER AST

COMMUNICATIONS
TOWER

FORMER INCINERATOR

Extent

Legend

Site Boundary

Source:
Imagery - nearmap 14th Feb 2018

Contaminated Land AEC's

Drawing No: 0452825b_EA_G004_R0.mxd

Environmental Assessment for ACMA Land
Birkdale, Capalaba, QLD

Date: 04/04/2018 Drawing Size: A4

Drawn By: DR Reviewed By: FA

Client: Australian Communications and Media Authority

Coordinate System: GDA 1994 MGA Zone 56

0 25 50m



This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.





Legend

- Land**
- Redlands Planning Scheme V7.1**
- Acid Sulfate Soils Overlay**
 - Below 5 metres AHD
 - Between 5 and 20 metres AHD

Source:
 Redlands City Council - 2018
<http://gis.redland.qld.gov.au/redemap/>

Acid Sulfate Soils

Drawing No: 0452825b_EA_C003_R0.cdr
 Date: 29/03/2018 Drawing size: A4
 Drawn by: DR Reviewed by: FA

Environmental Assessment for ACMA Land
 Birkdale, Capalaba, QLD
 Client: Australian Communications and Media Authority

Drawing to Approximate Scale
 0 50 100 200m




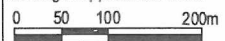
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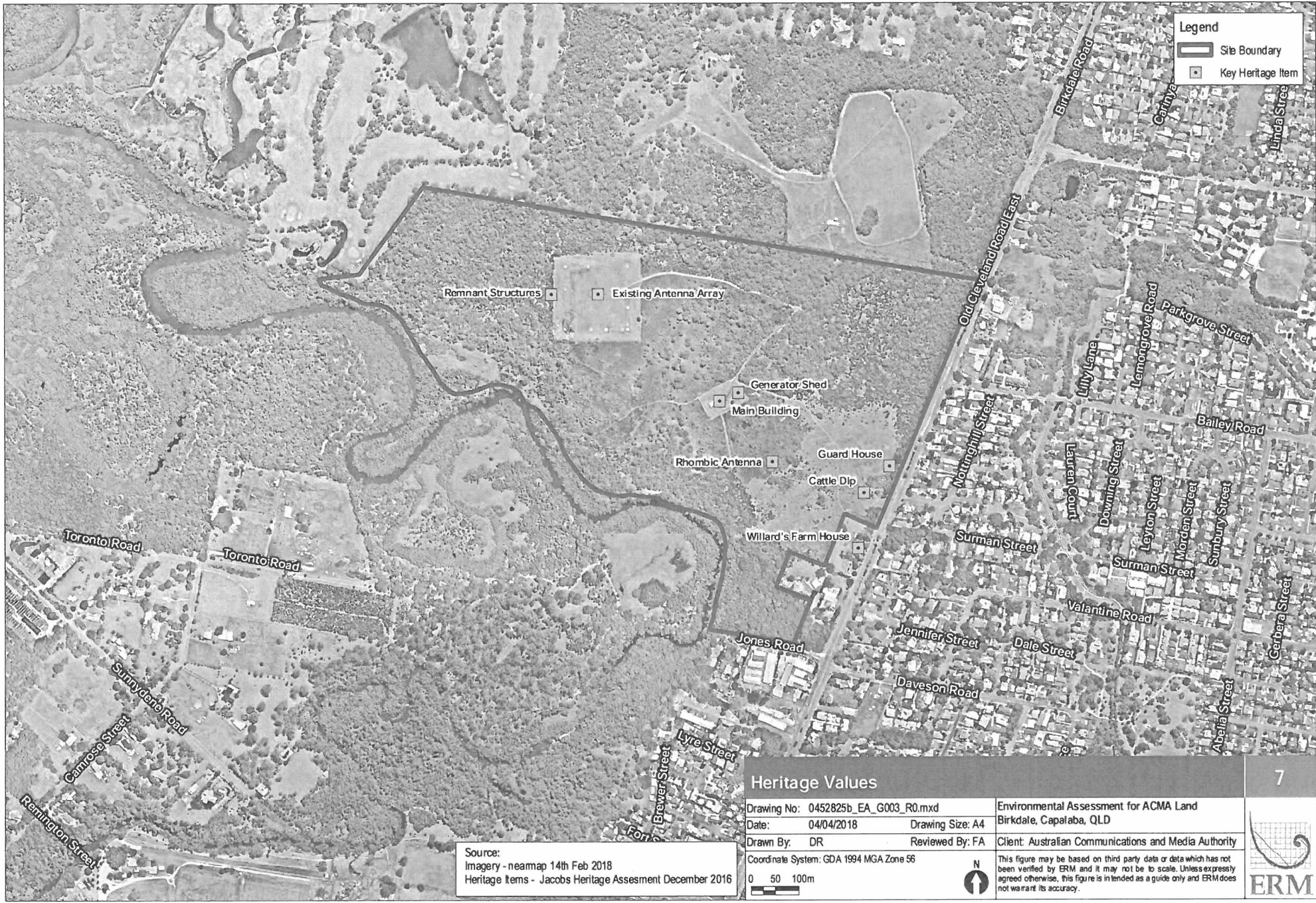






- Legend**
- Land:**
- Disaster Management:
 - SPP2017 - Potential Impact Buffers
 - 100m Bushfire Buffer
 - SPP2017 - Bushfire Prone Area
 - High Potential Bushfire Intensity
 - Medium Potential Bushfire Intensity
 - Flood Prone, Storm Tide and Drainage Constrained Land
 - Storm Tide Area

Source:
 Redlands City Council - 2018
<http://gis.redland.qld.gov.au/redemap/>

Hazard Mapping		6
Drawing No: 0452825b_EA_C002_R0.cdr	Environmental Assessment for ACMA Land	
Date: 29/03/2018	Drawing size: A4	Birkdale, Capalaba, QLD
Drawn by: DR	Reviewed by: FA	Client: Australian Communications and Media Authority
Drawing to Approximate Scale		This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.
		



Legend

-  Site Boundary
-  Key Heritage Item

Heritage Values

Drawing No: 0452825b_EA_G003_R0.mxd
 Date: 04/04/2018 Drawing Size: A4
 Drawn By: DR Reviewed By: FA
 Coordinate System: GDA 1994 MGA Zone 56

Environmental Assessment for ACMA Land
 Birkdale, Capalaba, QLD
 Client: Australian Communications and Media Authority

0 50 100m



This figure may be based on third party data or data which has not been verified by ERM and it may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and ERM does not warrant its accuracy.



Annex A

Ecological Desktop Search Results



Queensland Government

Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All

Type: All

Status: All

Records: All

Date: All

Latitude: -27.5100

Longitude: 153.2015

Distance: 2

Email: frances.alexander@erm.com

Date submitted: Wednesday 14 Mar 2018 12:31:42

Date extracted: Wednesday 14 Mar 2018 12:40:02

The number of records retrieved = 263

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	I	Q	A	Records
animals	amphibians	Bufonidae	<i>Rhinella marina</i>	cane toad	Y			16
animals	amphibians	Hylidae	<i>Litoria caerulea</i>	common green treefrog		C		13
animals	amphibians	Hylidae	<i>Litoria latopalmata</i>	broad palmed rocketfrog		C		4
animals	amphibians	Hylidae	<i>Litoria fallax</i>	eastern sedgefrog		C		18
animals	amphibians	Limnodynastidae	<i>Limnodynastes tasmaniensis</i>	spotted grassfrog		C		1
animals	amphibians	Limnodynastidae	<i>Limnodynastes peronii</i>	striped marshfrog		C		6
animals	amphibians	Myobatrachidae	<i>Crinia parinsignifera</i>	beeping froglet		C		1
animals	amphibians	Myobatrachidae	<i>Pseudophryne coriacea</i>	red backed broodfrog		C		1
animals	birds	Acanthizidae	<i>Acanthiza lineata</i>	striated thornbill		C		1
animals	birds	Acanthizidae	<i>Chthonicola sagittata</i>	speckled warbler		C		3
animals	birds	Acanthizidae	<i>Acanthiza pusilla</i>	brown thornbill		C		1
animals	birds	Acanthizidae	<i>Gerygone olivacea</i>	white-throated gerygone		C		18
animals	birds	Acanthizidae	<i>Gerygone levigaster</i>	mangrove gerygone		C		3
animals	birds	Acanthizidae	<i>Sericornis frontalis</i>	white-browed scrubwren		C		1
animals	birds	Acanthizidae	<i>Acanthiza chrysorrhoa</i>	yellow-rumped thornbill		C		1
animals	birds	Acanthizidae	<i>Smicrornis brevirostris</i>	weebill		C		2
animals	birds	Accipitridae	<i>Accipiter cirrocephalus</i>	collared sparrowhawk		C		1
animals	birds	Accipitridae	<i>Haliaeetus leucogaster</i>	white-bellied sea-eagle		C		1
animals	birds	Accipitridae	<i>Haliastur sphenurus</i>	whistling kite		C		5
animals	birds	Accipitridae	<i>Aviceda subcristata</i>	Pacific baza		C		5
animals	birds	Accipitridae	<i>Pandion cristatus</i>	eastern osprey		SL		4
animals	birds	Accipitridae	<i>Elanus axillaris</i>	black-shouldered kite		C		6
animals	birds	Accipitridae	<i>Haliastur indus</i>	brahminy kite		C		4
animals	birds	Accipitridae	<i>Accipiter sp.</i>					1
animals	birds	Accipitridae	<i>Aquila audax</i>	wedge-tailed eagle		C		1
animals	birds	Aegothelidae	<i>Aegotheles cristatus</i>	Australian owl-nightjar		C		1
animals	birds	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck		C		19
animals	birds	Anatidae	<i>Cygnus atratus</i>	black swan		C		2
animals	birds	Anatidae	<i>Anas superciliosa</i>	Pacific black duck		C		14
animals	birds	Anhingidae	<i>Anhinga novaehollandiae</i>	Australasian darter		C		6
animals	birds	Anseranatidae	<i>Anseranas semipalmata</i>	magpie goose		C		1
animals	birds	Apodidae	<i>Hirundapus caudacutus</i>	white-throated needletail		SL		1
animals	birds	Ardeidae	<i>Nycticorax caledonicus</i>	nankeen night-heron		C		3
animals	birds	Ardeidae	<i>Egretta novaehollandiae</i>	white-faced heron		C		7
animals	birds	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret		C		5
animals	birds	Ardeidae	<i>Egretta garzetta</i>	little egret		C		4
animals	birds	Ardeidae	<i>Bubulcus ibis</i>	cattle egret		C		19
animals	birds	Ardeidae	<i>Ardea intermedia</i>	intermediate egret		C		3
animals	birds	Artamidae	<i>Artamus leucorhynchus</i>	white-breasted woodswallow		C		5
animals	birds	Artamidae	<i>Cracticus torquatus</i>	grey butcherbird		C		17
animals	birds	Artamidae	<i>Strepera graculina</i>	pieb currawong		C		1
animals	birds	Artamidae	<i>Artamus personatus</i>	masked woodswallow		C		1
animals	birds	Artamidae	<i>Cracticus tibicen</i>	Australian magpie		C		44
animals	birds	Artamidae	<i>Artamus sp.</i>					1
animals	birds	Artamidae	<i>Cracticus nigrogularis</i>	pieb butcherbird		C		27
animals	birds	Burhinidae	<i>Burhinus grallarius</i>	bush stone-curlew		C		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Cacatuidae	<i>Cacatua sanguinea</i>	little corella		C		6
animals	birds	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo		C		31
animals	birds	Cacatuidae	<i>Eolophus roseicapilla</i>	galah		C		34
animals	birds	Campephagidae	<i>Lalage tricolor</i>	white-winged triller		C		2
animals	birds	Campephagidae	<i>Coracina tenuirostris</i>	cicadabird		C		4
animals	birds	Campephagidae	<i>Lalage leucomela</i>	varied triller		C		12
animals	birds	Campephagidae	<i>Coracina novaehollandiae</i>	black-faced cuckoo-shrike		C		35
animals	birds	Charadriidae	<i>Vanellus miles novaehollandiae</i>	masked lapwing (southern subspecies)		C		25
animals	birds	Charadriidae	<i>Vanellus miles</i>	masked lapwing		C		2
animals	birds	Cisticolidae	<i>Cisticola exilis</i>	golden-headed cisticola		C		12
animals	birds	Climacteridae	<i>Climacteris picumnus</i>	brown treecreeper		C		1
animals	birds	Climacteridae	<i>Cornobates leucophaea metastasis</i>	white-throated treecreeper (southern)		C		13
animals	birds	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	Y			29
animals	birds	Columbidae	<i>Macropygia amboinensis</i>	brown cuckoo-dove		C		2
animals	birds	Columbidae	<i>Geopelia humeralis</i>	bar-shouldered dove		C		19
animals	birds	Columbidae	<i>Ocyphaps lophotes</i>	crested pigeon		C		32
animals	birds	Columbidae	<i>Geopelia striata</i>	peaceful dove		C		5
animals	birds	Columbidae	<i>Columba livia</i>	rock dove	Y			2
animals	birds	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird		C		24
animals	birds	Corvidae	<i>Corvus orru</i>	Torresian crow		C		44
animals	birds	Cuculidae	<i>Chalcites basalis</i>	Horsfield's bronze-cuckoo		C		2
animals	birds	Cuculidae	<i>Chalcites lucidus</i>	shining bronze-cuckoo		C		2
animals	birds	Cuculidae	<i>Eudynamys orientalis</i>	eastern koel		C		12
animals	birds	Cuculidae	<i>Scythrops novaehollandiae</i>	channel-billed cuckoo		C		8
animals	birds	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal		C		18
animals	birds	Cuculidae	<i>Cacomantis flabelliformis</i>	fan-tailed cuckoo		C		8
animals	birds	Dicruridae	<i>Dicrurus bracteatus</i>	spangled drongo		C		22
animals	birds	Estrildidae	<i>Neochmia temporalis</i>	red-browed finch		C		2
animals	birds	Estrildidae	<i>Lonchura castaneothorax</i>	chestnut-breasted mannikin		C		1
animals	birds	Estrildidae	<i>Taeniopygia bichenovii</i>	double-barred finch		C		3
animals	birds	Eurostopodidae	<i>Eurostopodus mystacalis</i>	white-throated nightjar		C		1
animals	birds	Falconidae	<i>Falco cenchroides</i>	nankeen kestrel		C		1
animals	birds	Falconidae	<i>Falco peregrinus</i>	peregrine falcon		C		1
animals	birds	Halcyonidae	<i>Todiramphus sanctus</i>	sacred kingfisher		C		20
animals	birds	Halcyonidae	<i>Dacelo novaeguineae</i>	laughing kookaburra		C		41
animals	birds	Halcyonidae	<i>Todiramphus macleayii</i>	forest kingfisher		C		6
animals	birds	Halcyonidae	<i>Todiramphus sordidus</i>	Torresian kingfisher		C		4
animals	birds	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow		C		31
animals	birds	Maluridae	<i>Malurus cyaneus</i>	superb fairy-wren		C		1
animals	birds	Maluridae	<i>Malurus melanocephalus</i>	red-backed fairy-wren		C		22
animals	birds	Maluridae	<i>Malurus lamberti</i>	variegated fairy-wren		C		14
animals	birds	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's honeyeater		C		6
animals	birds	Meliphagidae	<i>Caligavis chrysops</i>	yellow-faced honeyeater		C		7
animals	birds	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater		C		9
animals	birds	Meliphagidae	<i>Lichmera indistincta</i>	brown honeyeater		C		10
animals	birds	Meliphagidae	<i>Philemon corniculatus</i>	noisy friarbird		C		18

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner		C		42
animals	birds	Meliphagidae	<i>Myzomela sanguinolenta</i>	scarlet honeyeater		C		12
animals	birds	Meliphagidae	<i>Philemon citreogularis</i>	little friarbird		C		2
animals	birds	Meliphagidae	<i>Gavicalis fasciogularis</i>	mangrove honeyeater		C		12
animals	birds	Meliphagidae	<i>Melithreptus albogularis</i>	white-throated honeyeater		C		10
animals	birds	Meliphagidae	<i>Plectorhyncha lanceolata</i>	striped honeyeater		C		2
animals	birds	Meliphagidae	<i>Acanthorhynchus tenuirostris</i>	eastern spinebill		C		1
animals	birds	Meropidae	<i>Merops ornatus</i>	rainbow bee-eater		C		21
animals	birds	Monarchidae	<i>Monarcha melanopsis</i>	black-faced monarch		SL		4
animals	birds	Monarchidae	<i>Symposiachrus trivirgatus</i>	spectacled monarch		SL		1
animals	birds	Monarchidae	<i>Grallina cyanoleuca</i>	magpie-lark		C		38
animals	birds	Monarchidae	<i>Myiagra rubecula</i>	leaden flycatcher		C		12
animals	birds	Nectariniidae	<i>Dicaeum hirundinaceum</i>	mistletoebird		C		4
animals	birds	Neosittidae	<i>Daphoenositta chrysoptera</i>	varied sittella		C		5
animals	birds	Oriolidae	<i>Oriolus sagittatus</i>	olive-backed oriole		C		9
animals	birds	Oriolidae	<i>Sphecotheres vieilloti</i>	Australasian figbird		C		16
animals	birds	Pachycephalidae	<i>Colluricincla harmonica</i>	grey shrike-thrush		C		21
animals	birds	Pachycephalidae	<i>Colluricincla megarhyncha</i>	little shrike-thrush		C		2
animals	birds	Pachycephalidae	<i>Pachycephala rufiventris</i>	rufous whistler		C		28
animals	birds	Pachycephalidae	<i>Pachycephala pectoralis</i>	golden whistler		C		7
animals	birds	Pardalotidae	<i>Pardalotus punctatus</i>	spotted pardalote		C		3
animals	birds	Pardalotidae	<i>Pardalotus striatus</i>	striated pardalote		C		36
animals	birds	Passeridae	<i>Passer domesticus</i>	house sparrow	Y			5
animals	birds	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican		C		4
animals	birds	Petroicidae	<i>Petroica rosea</i>	rose robin		C		3
animals	birds	Petroicidae	<i>Eopsaltria australis</i>	eastern yellow robin		C		8
animals	birds	Phaethontidae	<i>Phaethon lepturus</i>	white-tailed tropicbird		SL		1/1
animals	birds	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant		C		10
animals	birds	Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	little pied cormorant		C		5
animals	birds	Phasianidae	<i>Coturnix ypsilophora</i>	brown quail		C		2
animals	birds	Pittidae	<i>Pitta versicolor</i>	noisy pitta		C		1
animals	birds	Podargidae	<i>Podargus strigoides</i>	tawny frogmouth		C		10
animals	birds	Pomatostomidae	<i>Pomatostomus temporalis</i>	grey-crowned babbler		C		1
animals	birds	Psittacidae	<i>Trichoglossus haematodus moluccanus</i>	rainbow lorikeet		C		41
animals	birds	Psittacidae	<i>Platycercus adscitus palliceps</i>	pale-headed rosella (southern form)		C		1
animals	birds	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	scaly-breasted lorikeet		C		9
animals	birds	Psittacidae	<i>Platycercus adscitus</i>	pale-headed rosella		C		37
animals	birds	Psittacidae	<i>Parvipsitta pusilla</i>	little lorikeet		C		1
animals	birds	Psophodidae	<i>Psophodes olivaceus</i>	eastern whipbird		C		11
animals	birds	Ptilonorhynchidae	<i>Sericulus chrysocephalus</i>	regent bowerbird		C		1
animals	birds	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen		C		5
animals	birds	Rallidae	<i>Porphyrio melanotus</i>	purple swamphen		C		8
animals	birds	Rallidae	<i>Gallirallus philippensis</i>	buff-banded rail		C		1
animals	birds	Recurvirostridae	<i>Himantopus himantopus</i>	black-winged stilt		C		1
animals	birds	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail		C		40
animals	birds	Rhipiduridae	<i>Rhipidura rufifrons</i>	rufous fantail		SL		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Rhipiduridae	<i>Rhipidura albiscapa</i>	grey fantail		C		14
animals	birds	Strigidae	<i>Ninox boobook</i>	southern boobook		C		8
animals	birds	Strigidae	<i>Ninox strenua</i>	powerful owl		V		1
animals	birds	Strigidae	<i>Ninox connivens</i>	barking owl		C		1
animals	birds	Sturnidae	<i>Acridotheres tristis</i>	common myna	Y			2
animals	birds	Sturnidae	<i>Sturnus vulgaris</i>	common starling	Y			3
animals	birds	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis		C		17
animals	birds	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill		C		3
animals	birds	Threskiornithidae	<i>Threskiornis spinicollis</i>	straw-necked ibis		C		7
animals	birds	Threskiornithidae	<i>Platalea flavipes</i>	yellow-billed spoonbill		C		3
animals	birds	Timaliidae	<i>Zosterops lateralis</i>	silveryeye		C		28
animals	birds	Turnicidae	<i>Tumix maculosus</i>	red-backed button-quail		C		1
animals	birds	Turnicidae	<i>Tumix varius</i>	painted button-quail		C		1
animals	birds	Tytonidae	<i>Tyto tenebricosa tenebricosa</i>	sooty owl		C		1
animals	insects	Hesperiidae	<i>Cephrenes trichopepla</i>	yellow palm-dart				1
animals	insects	Nymphalidae	<i>Euploea corinna</i>	common crow				4
animals	insects	Nymphalidae	<i>Danaus plexippus</i>	monarch				4
animals	insects	Nymphalidae	<i>Doleschallia bisaltide australis</i>	leafwing				1
animals	insects	Nymphalidae	<i>Melanitis leda bankia</i>	evening brown				2
animals	insects	Nymphalidae	<i>Danaus affinis affinis</i>	swamp tiger				2
animals	insects	Nymphalidae	<i>Tirumala hamata hamata</i>	blue tiger				4
animals	insects	Nymphalidae	<i>Phaedyma shepherdii shepherdii</i>	white-banded plane (southern subspecies)				1
animals	insects	Nymphalidae	<i>Danaus petilia</i>	lesser wanderer				4
animals	insects	Nymphalidae	<i>Vanessa kershawi</i>	Australian painted lady				3
animals	insects	Papilionidae	<i>Graphium choredon</i>	blue triangle				5
animals	insects	Papilionidae	<i>Papilio aegeus aegeus</i>	orchard swallowtail (Australian subspecies)				1
animals	insects	Pieridae	<i>Eurema hecabe</i>	large grass-yellow				2
animals	insects	Pieridae	<i>Catopsilia pomona</i>	lemon migrant				1
animals	mammals	Canidae	<i>Vulpes vulpes</i>	red fox	Y			1
animals	mammals	Leporidae	<i>Lepus europaeus</i>	European brown hare	Y			4
animals	mammals	Molossidae	<i>Tadarida australis</i>	white-striped freetail bat		C		2
animals	mammals	Muridae	<i>Mus musculus</i>	house mouse	Y			2
animals	mammals	Muridae	<i>Rattus rattus</i>	black rat	Y			1
animals	mammals	Peramelidae	<i>Perameles nasuta</i>	long-nosed bandicoot		C		1
animals	mammals	Peramelidae	<i>Isoodon macrourus</i>	northern brown bandicoot		C		18
animals	mammals	Phalangeridae	<i>Trichosurus vulpecula</i>	common brushtail possum		C		7
animals	mammals	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala		V	V	1601
animals	mammals	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	common ringtail possum		C		3
animals	mammals	Pseudocheiridae	<i>Petauroides volans volans</i>	southern greater glider		V	V	1
animals	mammals	Pteropodidae	<i>Pteropus alecto</i>	black flying-fox		C		5
animals	mammals	Pteropodidae	<i>Pteropus poliocephalus</i>	grey-headed flying-fox		C	V	5
animals	ray-finned fishes	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel				6
animals	ray-finned fishes	Anguillidae	<i>Anguilla australis</i>	southern shortfin eel				2
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris klunzingeri</i>	western carp gudgeon				1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris compressa</i>	empire gudgeon				2
animals	ray-finned fishes	Eleotridae	<i>Gobiomorphus australis</i>	striped gudgeon				2
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris galii</i>	firetail gudgeon				3
animals	ray-finned fishes	Melanotaeniidae	<i>Melanotaenia duboulayi</i>	crimsonspotted rainbowfish				1
animals	ray-finned fishes	Mugilidae	<i>Mugil cephalus</i>	sea mullet				1
animals	ray-finned fishes	Poeciliidae	<i>Xiphophorus maculatus</i>	platy	Y			3
animals	ray-finned fishes	Poeciliidae	<i>Xiphophorus hellerii</i>	swordtail	Y			6
animals	ray-finned fishes	Poeciliidae	<i>Gambusia holbrooki</i>	mosquitofish	Y			8
animals	ray-finned fishes	Pseudomugilidae	<i>Pseudomugil signifer</i>	Pacific blue eye				1
animals	reptiles	Agamidae	<i>Pogona barbata</i>	bearded dragon			C	8
animals	reptiles	Agamidae	<i>Intelligama lesueurii</i>	eastern water dragon			C	11
animals	reptiles	Boidae	<i>Morelia spilota</i>	carpet python			C	7
animals	reptiles	Chelidae	<i>Chelodina longicollis</i>	eastern snake-necked turtle			C	2
animals	reptiles	Colubridae	<i>Tropidonophis mairii</i>	freshwater snake			C	3
animals	reptiles	Colubridae	<i>Dendrelaphis punctulatus</i>	green tree snake			C	4
animals	reptiles	Elapidae	<i>Pseudechis porphyriacus</i>	red-bellied black snake			C	2/1
animals	reptiles	Elapidae	<i>Demansia psammophis</i>	yellow-faced whipsnake			C	3
animals	reptiles	Gekkonidae	<i>Hemidactylus frenatus</i>	house gecko	Y			2
animals	reptiles	Pygopodidae	<i>Lialis burtonis</i>	Burton's legless lizard			C	1
animals	reptiles	Scincidae	<i>Cryptoblepharus pulcher pulcher</i>	elegant snake-eyed skink			C	2
animals	reptiles	Scincidae	<i>Calyptotis scutirostrum</i>	scute-snouted calyptotis			C	2
animals	reptiles	Scincidae	<i>Lampropholis delicata</i>	dark-flecked garden sunskink			C	3
animals	reptiles	Scincidae	<i>Tiliqua scincoides</i>	eastern blue-tongued lizard			C	3
animals	reptiles	Scincidae	<i>Ctenotus spaldingi</i>	straight-browed ctenotus			C	1
animals	reptiles	Scincidae	<i>Carlia vivax</i>	tussock rainbow-skink			C	1
animals	reptiles	Typhlopidae	<i>Anilius wiedii</i>	brown-snouted blind snake			C	1/1
plants	higher dicots	Amaranthaceae	<i>Altemanthera pungens</i>	khaki weed	Y			1
plants	higher dicots	Amaranthaceae	<i>Gomphrena celosioides</i>	gomphrena weed	Y			1
plants	higher dicots	Apocynaceae	<i>Parsonsia straminea</i>	monkey rope			C	1
plants	higher dicots	Asteraceae	<i>Emilia sonchifolia</i>		Y			1
plants	higher dicots	Asteraceae	<i>Praxelis clematidea</i>		Y			1
plants	higher dicots	Asteraceae	<i>Sphagneticola trilobata</i>		Y			1
plants	higher dicots	Asteraceae	<i>Bidens pilosa</i>		Y			1
plants	higher dicots	Basellaceae	<i>Anredera cordifolia</i>	Madeira vine	Y			1/1
plants	higher dicots	Byttneriaceae	<i>Commersonia dasyphylla</i>				C	2/2
plants	higher dicots	Caesalpiniaceae	<i>Senna pendula var. glabrata</i>	Easter cassia	Y			1
plants	higher dicots	Caryophyllaceae	<i>Spergularia marina</i>				C	1/1
plants	higher dicots	Casuarinaceae	<i>Casuarina glauca</i>	swamp she-oak			C	1
plants	higher dicots	Chenopodiaceae	<i>Enchylaena tomentosa var. glabra</i>				C	1/1
plants	higher dicots	Chenopodiaceae	<i>Suaeda australis</i>				C	1/1
plants	higher dicots	Convolvulaceae	<i>Polymeria calycina</i>	pink bindweed			C	1/1
plants	higher dicots	Euphorbiaceae	<i>Euphorbia prostrata</i>		Y			1
plants	higher dicots	Euphorbiaceae	<i>Macaranga tanarius</i>	macaranga			C	1
plants	higher dicots	Euphorbiaceae	<i>Acalypha australis</i>		Y			1/1
plants	higher dicots	Haloragaceae	<i>Haloragis heterophylla</i>	rough raspweed			C	1/1
plants	higher dicots	Malvaceae	<i>Hibiscus tiliaceus</i>	cotton tree			C	1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
plants	higher dicots	Mimosaceae	<i>Acacia fimbriata</i>	Brisbane golden wattle		C		1
plants	higher dicots	Mimosaceae	<i>Acacia disparrima subsp. disparrima</i>			C		1
plants	higher dicots	Mimosaceae	<i>Acacia leiocalyx subsp. leiocalyx</i>			C		2/2
plants	higher dicots	Moraceae	<i>Maclura cochinchinensis</i>	cockspur thorn		C		1
plants	higher dicots	Moraceae	<i>Ficus coronata</i>	creek sandpaper fig		C		1
plants	higher dicots	Myrsinaceae	<i>Lysimachia arvensis</i>		Y			1
plants	higher dicots	Myrtaceae	<i>Eucalyptus seeana</i>	narrow-leaved red gum		C		1/1
plants	higher dicots	Myrtaceae	<i>Eucalyptus tereticornis</i>			C		1
plants	higher dicots	Myrtaceae	<i>Lophostemon suaveolens</i>	swamp box		C		1
plants	higher dicots	Myrtaceae	<i>Melaleuca irbyana</i>			E		1/1
plants	higher dicots	Myrtaceae	<i>Melaleuca quinquenervia</i>	swamp paperbark		C		1
plants	higher dicots	Myrtaceae	<i>Leptospermum polygalifolium</i>	tantoon		C		1/1
plants	higher dicots	Oxalidaceae	<i>Oxalis rubens</i>			C		1/1
plants	higher dicots	Phyllanthaceae	<i>Glochidion sumatranum</i>	umbrella cheese tree		C		1
plants	higher dicots	Pittosporaceae	<i>Bursaria spinosa subsp. spinosa</i>			C		1/1
plants	higher dicots	Polygonaceae	<i>Persicaria</i>			C		1
plants	higher dicots	Rhamnaceae	<i>Alphitonia excelsa</i>	soap tree		C		1
plants	higher dicots	Rutaceae	<i>Boronia rosmarinifolia</i>	forest boronia		C		1/1
plants	higher dicots	Sapindaceae	<i>Cupaniopsis anacardioides</i>	tuckeroo		C		1
plants	higher dicots	Solanaceae	<i>Solanum nigrum</i>		Y			1
plants	higher dicots	Solanaceae	<i>Solanum seaforthianum</i>	Brazilian nightshade	Y			1
plants	higher dicots	Ulmaceae	<i>Celtis sinensis</i>	Chinese elm	Y			1
plants	lower dicots	Lauraceae	<i>Cinnamomum camphora</i>	camphor laurel	Y			1
plants	monocots	Arecaceae	<i>Syagrus romanzoffiana</i>	Queen palm	Y			1
plants	monocots	Commelinaceae	<i>Commelina diffusa</i>	wandering jew		C		1
plants	monocots	Hemerocallidaceae	<i>Dianella caerulea</i>			C		1
plants	monocots	Hemerocallidaceae	<i>Dianella brevipedunculata</i>			C		1/1
plants	monocots	Laxmanniaceae	<i>Eustrephus latifolius</i>	wombat berry		C		1/1
plants	monocots	Poaceae	<i>Eriochloa procera</i>	slender cupgrass		C		1/1
plants	monocots	Poaceae	<i>Dichelachne montana</i>			C		1/1
plants	monocots	Poaceae	<i>Megathyrsus maximus</i>		Y			1
plants	monocots	Poaceae	<i>Paspalum mandiocanum</i>		Y			1/1
plants	monocots	Poaceae	<i>Phragmites australis</i>	common reed		C		1
plants	monocots	Poaceae	<i>Cynodon dactylon var. dactylon</i>		Y			1
plants	monocots	Poaceae	<i>Paspalum notatum</i>	bahia grass	Y			1

CODES

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

Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().

A - 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).

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 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon.

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



Vegetation management report

For Lot: 1 Plan: RP14143

Current as at 14/03/2018

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Overview

IMPORTANT INFORMATION

The Queensland Government introduced laws on 8th March 2018 that propose to:

- improve protection of high-value regrowth (proposed Category C); and
- extend riparian protection (Category R) over all six Great Barrier Reef catchments; and
- reinstate Essential Habitat protections for Near Threatened species.

What is the Proposed Regulated Vegetation Management Map?

The proposed regulated vegetation management map helps landholders to determine if their property will be affected by the proposed legislative changes.

Updated Version 10 Mapping

The Regulated Vegetation Management Map and Supporting Map have been updated to reflect the most up to date information available in relation to regional ecosystems, essential habitat and wetland mapping. This update is unrelated to the 2018 Vegetation Management Amendment Bill.

As a result of the new *Planning Act 2016*, which commenced on 3 July 2017, there are a number of changes to the Vegetation Management Framework. These changes include;

- Exemptions from the Vegetation Management Framework, commonly known as exemptions and detailed in the Sustainable Planning Regulations 2012, are now known as "exempt clearing works", and are detailed in the Planning Regulations Schedule 21; and
- Self-assessable vegetation clearing codes are now known as "accepted development vegetation clearing codes". However, as there are 15 self-assessable vegetation clearing codes available for use that will not be re-named as a result of the recent changes, the term self-assessable vegetation clearing code will be used throughout this report.

Vegetation clearing is predominantly regulated under the *Vegetation Management Act 1999* (VMA) and the *Planning Act 2016* (PA). A development permit is required to clear where the clearing is not exempt clearing work through the Planning Regulation 2017, or where it cannot be carried out under a self-assessable vegetation clearing code or an area management plan under the VMA.

Many routine vegetation management activities can be carried out as exempt clearing work listed in the Planning Regulation 2017, or through an self-assessable vegetation clearing code or an area management plan (AMP). Other activities may require you to apply for a development permit under the *Planning Act 2016*. The requirements for a development permit depend on the type of vegetation, the land tenure (e.g. freehold or leasehold land), the location, and the extent and purpose of the proposed clearing.

Please be aware that other requirements for clearing and managing vegetation may apply, even if the activity is not regulated by the Vegetation Management framework. Prior to commencing the clearing of vegetation, it is important to confirm that no other requirements apply under other legislation, including:

- Local laws in your local government area;
- Other State legislation, such as Protected Plants under the *Nature Conservation Act 1992* (NCA);
- The Commonwealth Government's *Environmental Protection and Biodiversity Act 1999* (EPBC).

Please see section 6 for contact details of other agencies you should confirm requirements with before commencing vegetation clearing.

Please note that the requirements for clearing Category C or Category R areas are located in the self-assessable vegetation clearing codes (SAVCC) for managing Category C and Category R vegetation respectively.

The information in this report will assist you to determine the options for managing vegetation on your property. Based on the lot on plan details you have supplied, this report provides the following detailed information:

- *Vegetation management framework* - an explanation of the options that may be available to manage vegetation on your property.
- *Property details* - information about the specified Lot on Plan, lot size, local government area, bioregion(s), subregion(s), catchment(s), coastal or non coastal status, and any applicable area management plans associated with your property.
- *Vegetation management details for the specified Lot on Plan* - specific information about your property including vegetation categories, regional ecosystems, watercourses, wetlands, essential habitat, land suitability and protected plants.
- *Contact information*.
- *Maps* - a series of colour maps to assist in identifying regulated vegetation on your property.
- *Other legislation contact information*.

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1. Vegetation management framework

The *Vegetation Management Act 1999* (VMA), the *Vegetation Management Regulation 2012*, the *Planning Act 2016* and the *Planning Regulation 2017*, in conjunction with associated policies and codes, form the *Vegetation Management Framework*. This framework regulates the management and clearing of assessable vegetation in Queensland.

The VMA does not apply to all land tenures or vegetation types. State forests, national parks, forest reserves and some tenure types as defined under the *Forestry Act 1959* and *Nature Conservation Act 1992* are not regulated by the VMA.

Managing or clearing vegetation may require permits under these laws.

The information provided in Sections 2 and 3 of this report, as well as the maps provided in Section 5, will assist you to determine whether your proposed clearing is:

- exempt clearing works;
- requires notification and compliance with a self-assessable vegetation clearing code or area management plan;
- requires a development permit; and/or
- in a high risk area and is therefore subject to the protected plants legislative framework (see section 3.7 of this report).

The following native vegetation is not regulated under the VMA but may require permit(s) under other laws:

- grass or non-woody herbage;
- a plant within a grassland regional ecosystem prescribed under the VM Regulation 2012; and
- a mangrove.

Although vegetation management laws may allow clearing, there may be other state, local or Commonwealth laws that apply, such as the Queensland Government's *Nature Conservation Act 1992* (see *Protected Plants*) and the Commonwealth Government's *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The EPBC Act regulates matters of national environmental significance, such as threatened species and ecological communities. You may need to obtain approval under the EPBC Act if your proposed clearing could have a significant impact on matters of national environmental significance. Further details are available at www.environment.gov.au.

1.1 Exempt Clearing Work

The vegetation management framework allows clearing for certain purposes without approval, known as an exempt clearing work. Exempt clearing work provisions under the *Planning Act 2016* were formerly called exemptions.

In areas that are mapped as Category X (white in colour) on the regulated vegetation management map (see section 5.1), and where the land tenure is freehold, indigenous land and leasehold land for agriculture and grazing purposes, the clearing of vegetation is considered exempt clearing work, or exempt from the VMA. For all other land tenures, contact DNRME before commencing clearing to ensure that the proposed activity is exempt clearing work. Please see Section 4 for DNRME's contact details.

A range of routine property management activities are considered exempt clearing work. A list of these is available at <https://www.qld.gov.au/environment/land/vegetation/exemptions/>.

Although vegetation management laws may allow clearing as exempt clearing work, there may be other state, local or Commonwealth laws that apply. For example, a clearing permit under the *Nature Conservation Act 1992* may be required for clearing protected plants. These requirements apply irrespective of the classification of the vegetation under the vegetation management framework. In addition, clearing that is exempt clearing work may not apply in an area subject to a development permit, a covenant, an environmental offset, an Exchange Area, a Restoration Notice, or an area mapped as Category A. Landholders considering clearing in any of these areas should contact DNRME prior to clearing to clarify if any conditions apply in the area that affect the use of the provisions for exempt clearing work.

1.2 Self-assessable vegetation clearing codes

Some clearing activities can be undertaken using a self-assessable vegetation clearing code and notification process. The codes can be downloaded at

<https://www.qld.gov.au/environment/land/vegetation/codes/>

If you intend to clear vegetation under a self-assessable vegetation clearing code, you must notify DNRME before commencing. The information in this report will assist you to complete the online notification form.

Please note that a self-assessable vegetation clearing code cannot be used in an area mapped as Category A.(see section 5.1)

You can complete the online form at

<https://apps.dnrm.qld.gov.au/vegetation/>

1.3 Area management plans

Area Management Plans (AMP) provide an alternative approval system for vegetation clearing. They list the purposes and clearing conditions that have been approved for the areas covered by the plan. It is not necessary to use an AMP, even when an AMP applies to your property.

If an area management plan applies to your property, it will be listed in Section 2.2 of this report.

To clear under an existing AMP, you must notify the DNRME before clearing starts and follow the conditions listed in the AMP. You can download the area management plan notification form and obtain a copy of the relevant AMP at

<https://www.qld.gov.au/environment/land/vegetation/area-plans/>

1.4 Development permits

If your proposed clearing is not exempt clearing work, or is not permitted under a self-assessable vegetation clearing code, or an AMP, you may be able to apply for a development permit. Information on how to apply for a development permit is available at

<https://www.qld.gov.au/environment/land/vegetation/applying/>

2. Property details

2.1 Tenure

All of the lot, plan and tenure information associated with property Lot: 1 Plan: RP14143 (Calculated area in Hectares - 38.98ha), including links to relevant Smart Maps, are listed in Table 1. The tenure of the property (whether it is freehold, leasehold, or other) may be viewed by clicking on the Smart Map link(s) provided.

Table 1: Lot, plan and tenure information for the property

Lot	Plan	Tenure	Link to property on SmartMap
1	RP14143	Freehold	http://globe.information.qld.gov.au/cgi-bin/SmartMapgen.py?q=1\RP14143

The tenure of the land may affect whether the clearing is considered exempt clearing work.

Some self-assessable vegetation clearing codes apply only to freehold and leasehold land granted for grazing and agricultural purposes.

2.2 Property location

Table 2 provides a summary of the locations for property Lot: 1 Plan: RP14143, in relation to natural and administrative boundaries.

Local Government(s)
Redland City

Bioregion(s)	Subregion(s)
Southeast Queensland	Sunshine Coast - Gold Coast Lowlands

Catchment(s)
Logan-Albert

For the purposes of the Self-assessable vegetation clearing codes and the State Development Assessment Provisions (SDAP), this property is regarded as *
Coastal

*See also Map 5.4

Area Management Plan(s): Nil

3. Vegetation management details for Lot: 1 Plan: RP14143

3.1 Vegetation categories

Vegetation categories are shown on the regulated vegetation management map in section 5.1 of this report. A summary of vegetation categories on the subject lot are listed in Table 3. Descriptions for these categories are shown in Table 4.

Table 3: Vegetation categories for subject property. Total area: 39.02ha

Vegetation category	Area (ha)
Category B	9.08
Category X	29.94

Table 4

Category	Colour on Map	Description	Requirements
A	red	Compliance areas, environmental offset areas and voluntary declaration areas	There may be special conditions that apply in a Category A area. Before clearing, contact DNRME to confirm any requirements in a Category A area.
B	dark blue	Remnant vegetation areas	Clearing may be considered exempt clearing work, or can be undertaken after notifying under a self-assessable vegetation clearing code or an Area Management Plan, or may require a Development Permit.
C	light blue	High-value regrowth areas	Clearing may be considered exempt clearing work, or can be undertaken after notifying under the self-assessable vegetation clearing code for Managing Category C Regrowth vegetation.
R	yellow	Regrowth within 50m of a watercourse or drainage feature in the priority reef catchment areas	Clearing may be considered exempt clearing work, or can be undertaken after notifying under the self-assessable vegetation clearing code for Managing Category R Regrowth vegetation.
X	white	Clearing is considered accepted development on freehold land, indigenous land and leasehold land for agriculture and grazing purposes. Contact DNRME to clarify whether a development permit is required for other State land tenures.	No permit or notification required on freehold land, indigenous land and leasehold land for agriculture and grazing. A Development Permit may be required for some State land tenures.

Property Map of Assessable Vegetation (PMAV)

This report does not confirm if a Property Map of Assessable Vegetation (PMAV) exists on a lot. To confirm whether or not a PMAV exists on a lot, please check the PMAV layer on the Queensland Globe2, or contact DNRME on 135 834.

3.2 Regional ecosystems

The endangered, of concern and least concern regional ecosystems on your property are shown on the vegetation management supporting map in section 5.2 and are listed in Table 5.

A description of regional ecosystems can be accessed online at <https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/descriptions/>

Table 5: Regional ecosystems present on subject property

Regional Ecosystem	VMA Status	Category	Area (Ha)	Short Description	Structure Category
12.1.1	Of concern	B	0.43	Casuarina glauca woodland on margins of marine clay plains	Sparse
12.1.2	Least concern	B	0.91	Saltpan vegetation including grassland, herbland and sedgeland on marine clay plains	Grassland
12.1.3	Least concern	B	0.29	Mangrove shrubland to low closed forest on marine clay plains and estuaries	Dense
12.3.11	Of concern	B	5.94	Eucalyptus tereticornis +/- Eucalyptus siderophloia, Corymbia intermedia open forest on alluvial plains usually near coast	Mid-dense
12.3.6	Least concern	B	1.48	Melaleuca quinquenervia +/- Eucalyptus tereticornis, Lophostemon suaveolens, Corymbia intermedia open forest on coastal alluvial plains	Mid-dense
12.5.3	Endangered	B	0.04	Eucalyptus racemosa subsp. racemosa woodland on remnant Tertiary surfaces	Mid-dense
non-rem	None	X	29.94	None	None

Please note:

- All area and area derived figures included in this table have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.
- If Table 5 contains a Category 'plant', please be aware that this refers to 'plantations' such as forestry, and these areas are considered non-remnant under the VMA.

The VMA status of the regional ecosystem (whether it is endangered, of concern or least concern) also determines if any of the following are applicable:

- exempt clearing work
- self assessable vegetation clearing codes
- performance outcomes in State Development Assessment Provisions (SDAP).

Some clearing purposes are limited to a particular group of regional ecosystems (e.g. encroachment) and some self-assessable vegetation clearing codes allow clearing only in certain regional ecosystems.

3.3 Watercourses

Vegetation management watercourses and drainage features for this property are shown on the vegetation management supporting map in section 5.2.

3.4 Wetlands

There are no vegetation management wetlands present on this property.

3.5 Essential habitat

Protected wildlife is native wildlife prescribed under the *Nature Conservation Act 1992* (NCA), and includes endangered or vulnerable wildlife.

Essential habitat identifies areas in which species of wildlife that are Endangered or Vulnerable under the *Nature Conservation Act 1992* for which suitable habitat occurs on the lot, or where they have been known to occur up to 1.1 kilometres from a lot on which there is assessable vegetation. These important habitat areas are protected under the VMA.

Any essential habitat on this property will be shown as blue hatching on the vegetation supporting map in section 5.2.

If essential habitat is identified on the lot, information about the protected wildlife species is provided in Table 6 below. The numeric labels on the vegetation management supporting map can be cross referenced with Table 6 to outline the essential habitat factors for that particular species. There may be essential habitat for more than one species on each lot, and areas of Category A, Category B and Category C can be mapped as Essential Habitat.

Essential habitat is compiled from a combination of species habitat models and buffered species records. Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated. Essential habitat, for protected wildlife, means an area of vegetation shown on the Regulated Vegetation Management Map as assessable vegetation -

- 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. Essential habitat factors are comprised of - regional ecosystem (mandatory for most species), vegetation community, altitude, soils, position in landscape; or
- 2) in which the protected wildlife, at any stage of its life cycle, is located.

If there is no essential habitat mapping shown on the vegetation management supporting map for this lot, and there is no table in the sections below, it confirms that there is no essential habitat on the lot.

3.5.1 Category A and/or Category B and/or Category C

Table 6: 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
686	<i>Crinia tinnula</i>	wallum froglet	V	Vegetation community is a mandatory essential habitat factor for this species. Permanent to ephemeral acidic (pH 4.3 - 5.2), soft freshwater in Melaleuca (e.g. <i>M. quinquenervia</i>) swamps, sedgeland, wet and dry heathland (e.g. <i>Banksia robur</i> , <i>Xanthorrhoea</i>) and wallum (<i>Banksia aemula</i> shrubland/woodland) areas coastal lowlands on sand or sandstone, occasionally in adjacent open forest/woodland (e.g. <i>Eucalyptus racemosa</i> , <i>Corymbia citriodora</i>) with heathy understorey, known to persist in small remnants (<10ha); may be found well away from water.	Sea level to 150m.	Sandy and sandy-alluvial substrates.	None

Label	Scientific Name	Common Name	NCA Status	Vegetation Community	Altitude	Soils	Position in Landscape
800	Phascolarctos cinereus	koala	V	<p>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. propinqua, E. microcorys, E. biturbinata, E. robusta, E. camaldulensis, E. major and E.longirostrata. Other species that may be locally important include: E. eugenioides, E. raemosa, E. crebra, E. exserta, E. seeana, Lophostemon confertus, L. suaveolens, Melaleuca quinquenervia, E. umbra, E. carnea, E. latisinensis, E. fibrosa, E. grandis, E.acmenoides, E. tindaliae, Eucalyptus bancroftii, Corymbia citriodora, C.henryi, C.intermedia, Eucalyptus dunnii, E. populnea, E. resinifera, E. siderophloia, Eucalyptus saligna, E.pilularis and E.molucanna.</p> <p>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. orgadophylla, E. thozetiana, E. melanophloia, E. populnea, E.brownii, E. melliodora, E. dealbata, E. microtheca, E. crebra, E. exserta, E. blakeyi, E. papuana, E. terminalis, C. intermedia, E. propinqua, E. seeana, E. microcorys, E. resinifera, E. biturbinata, E. robusta, E. major, E.longirostrata, E.molucanna, E.acmenoides, E.pilularis, Allocasuarina torulosa, Lophostemon confertus, L. suaveolens, Callitris columellaris, Corymbia tessellaris, C. citriodora, C.henryi, E.bancroftii, Eucalyptus dunnii, E. grandis, E. fibrosa, E. carnea, Eucalyptus saligna, E. raemosa, E. eugenioides, E. siderophloia, E. tindaliae, Melaleuca quinquenervia, and M. leucadendra.</p>	Sea level to 1000m.	None	Riparian areas, plains and hill/escarpment slopes.

Label	Regional Ecosystem (mandatory unless otherwise specified)
888	12.2.5, 12.2.7, 12.2.9, 12.2.10, 12.2.12, 12.2.15, 12.3.4, 12.3.5, 12.3.6, 12.3.12, 12.3.14, 12.3.20, 12.5.2, 12.5.10. These regional ecosystems are not a mandatory essential habitat factor for this species.

Label	Regional Ecosystem (mandatory unless otherwise specified)
860	SEQ: 11.3.2, 11.3.25, 11.3.26, 11.3.4, 11.8.2, 11.8.4, 11.8.5, 11.8.8, 11.9.9, 12.11.14, 12.11.16, 12.11.17, 12.11.18, 12.11.2, 12.11.22, 12.11.23, 12.11.24, 12.11.25, 12.11.26, 12.11.27, 12.11.28, 12.11.3, 12.11.5, 12.11.6, 12.11.7, 12.11.8, 12.11.9, 12.12.11, 12.12.12, 12.12.14, 12.12.15, 12.12.2, 12.12.23, 12.12.24, 12.12.25, 12.12.28, 12.12.3, 12.12.5, 12.12.6, 12.12.7, 12.12.8, 12.12.9, 12.2.10, 12.2.5, 12.2.6, 12.2.7, 12.2.8, 12.3.10, 12.3.11, 12.3.14, 12.3.18, 12.3.19, 12.3.2, 12.3.20, 12.3.3, 12.3.4, 12.3.5, 12.3.6, 12.3.7, 12.3.9, 12.5.1, 12.5.10, 12.5.12, 12.5.2, 12.5.3, 12.5.4, 12.5.6, 12.5.7, 12.8.1, 12.8.11, 12.8.12, 12.8.14, 12.8.16, 12.8.17, 12.8.20, 12.8.24, 12.8.25, 12.8.8, 12.8.9, 12.9-10.1, 12.9-10.11, 12.9-10.12, 12.9-10.14, 12.9-10.17, 12.9-10.18, 12.9-10.19, 12.9-10.2, 12.9-10.21, 12.9-10.28, 12.9-10.27, 12.9-10.28, 12.9-10.29, 12.9-10.3, 12.9-10.4, 12.9-10.5, 12.9-10.7, 12.9-10.8, Outside SEQ: 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.8, 4.3.10, 4.3.11, 4.4.1, 4.5.3, 4.5.5, 4.5.6, 4.5.8, 4.5.9, 4.7.1, 4.7.7, 4.7.8, 4.9.6, 4.9.10, 4.9.12, 4.9.17, 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, 6.3.7, 6.3.8, 6.3.9, 6.3.11, 6.3.12, 6.3.17, 6.3.18, 6.3.22, 6.3.24, 6.3.25, 6.4.1, 6.4.2, 6.4.3, 6.4.4, 6.5.1, 6.5.2, 6.5.3, 6.5.5, 6.5.6, 6.5.7, 6.5.8, 6.5.9, 6.5.10, 6.5.11, 6.5.13, 6.5.14, 6.5.15, 6.5.16, 6.5.17, 6.5.18, 6.5.19, 6.6.2, 6.7.1, 6.7.2, 6.7.5, 6.7.6, 6.7.7, 6.7.9, 6.7.11, 6.7.12, 6.7.13, 6.7.14, 6.7.17, 6.9.3, 7.2.3, 7.2.4, 7.2.7, 7.2.11, 7.3.7, 7.3.8, 7.3.9, 7.3.12, 7.3.13, 7.3.14, 7.3.16, 7.3.19, 7.3.20, 7.3.21, 7.3.25, 7.3.26, 7.3.39, 7.3.40, 7.3.42, 7.3.43, 7.3.44, 7.3.45, 7.3.47, 7.3.48, 7.3.50, 7.5.1, 7.5.2, 7.5.3, 7.5.4, 7.8.7, 7.8.8, 7.8.10, 7.8.15, 7.8.16, 7.8.17, 7.8.18, 7.8.19, 7.11.5, 7.11.6, 7.11.13, 7.11.14, 7.11.16, 7.11.18, 7.11.19, 7.11.20, 7.11.21, 7.11.31, 7.11.32, 7.11.33, 7.11.34, 7.11.35, 7.11.37, 7.11.41, 7.11.42, 7.11.43, 7.11.44, 7.11.45, 7.11.46, 7.11.47, 7.11.48, 7.11.49, 7.11.50, 7.11.51, 7.12.4, 7.12.5, 7.12.17, 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10.10.4, 10.10.5, 10.10.7, 11.2.1, 11.2.5, 11.3.1, 11.3.2, 11.3.3, 11.3.4, 11.3.5, 11.3.6, 11.3.7, 11.3.9, 11.3.10, 11.3.12, 11.3.13, 11.3.14, 11.3.15, 11.3.16, 11.3.17, 11.3.18, 11.3.19, 11.3.21, 11.3.23, 11.3.25, 11.3.26, 11.3.27, 11.3.28, 11.3.29, 11.3.30, 11.3.32, 11.3.33, 11.3.35, 11.3.36, 11.3.37, 11.3.38, 11.3.39, 11.4.2, 11.4.3, 11.4.7, 11.4.8, 11.4.9, 11.4.10, 11.4.12, 11.4.13, 11.5.1, 11.5.2, 11.5.3, 11.5.4, 11.5.5, 11.5.7, 11.5.8, 11.5.9, 11.5.12, 11.5.13, 11.5.14, 11.5.17, 11.5.18, 11.5.20, 11.5.21, 11.7.1, 11.7.2, 11.7.3, 11.7.4, 11.7.6, 11.7.7, 11.8.1, 11.8.2, 11.8.4, 11.8.5, 11.8.8, 11.8.11, 11.8.12, 11.8.14, 11.8.15, 11.9.1, 11.9.2, 11.9.3, 11.9.5, 11.9.6, 11.9.7, 11.9.9, 11.9.10, 11.9.11, 11.9.13, 11.9.14, 11.10.1, 11.10.2, 11.10.3, 11.10.4, 11.10.5, 11.10.6, 11.10.7, 11.10.9, 11.10.10, 11.10.11, 11.10.12, 11.10.13, 11.11.1, 11.11.2, 11.11.3, 11.11.4, 11.11.6, 11.11.7, 11.11.8, 11.11.9, 11.11.10, 11.11.11, 11.11.12, 11.11.13, 11.11.14, 11.11.15, 11.11.16, 11.11.17, 11.11.19, 11.11.20, 11.12.1, 11.12.2, 11.12.3, 11.12.5, 11.12.6, 11.12.7, 11.12.8, 11.12.9, 11.12.10, 11.12.13, 11.12.14, 11.12.15, 11.12.16, 11.12.17, 11.12.19, 11.12.20, 13.3.1, 13.3.2, 13.3.3, 13.3.4, 13.3.5, 13.3.7, 13.9.2, 13.11.1, 13.11.2, 13.11.3, 13.11.4, 13.11.5, 13.11.6, 13.11.8, 13.11.9, 13.12.1, 13.12.2, 13.12.3, 13.12.4, 13.12.5, 13.12.6, 13.12.8, 13.12.9, 13.12.10.

3.6 Land suitability

Land suitability mapping and information is required if you are applying to clear vegetation for high-value or irrigated high-value agriculture. Land suitability assessment addresses the capacity of land to sustain specific land uses such as cropping, irrigated agriculture and forestry.

A land suitability map for this property is provided in section 5.3. The map provides detailed land suitability, agricultural land classification, or soil and land resource mapping data where it is available.

The land suitability project that applies to this property is shown in Table 7 and Table 8.

Table 7: Land suitability project details for this property

Project name	Project code	Start date	Scale
Moreton Land Management Manual (MFM)	MFM	1982-01-01 00:00:00	250000
Soil Landscapes of Brisbane and South East Environs (ZAA)	ZAA	1987-01-01 00:00:00	100000

Table 8: Available land suitability project reports for this property

Project name	Availability of report
Moreton Land Management Manual (MFM)	Available at www.publications.qld.gov.au
Soil Landscapes of Brisbane and South East Environs (ZAA)	CSIRO report. Available at www.publications.qld.gov.au

3.7 Protected plants (administered by the Department of Environment and Science (DES))

In Queensland, all plants that are native to Australia are protected plants under the *Nature Conservation Act 1992* (NCA), with clearing of protected plants in the wild regulated by the *Nature Conservation (Wildlife Management) Regulation 2006*. These requirements apply irrespective of the classification of the vegetation under the *Vegetation Management Act 1999*.

Prior to clearing, if the plants proposed to be cleared are in the wild (see [Operational policy: When a protected plant in Queensland is considered to be 'in the wild'](#)) and the exemptions under the *Nature Conservation (Wildlife Management) Regulation 2006* are not applicable to the proposed clearing, you must check the flora survey trigger map to determine if any part of the area to be cleared is within a high risk area. The trigger map for this property is provided in section 5.5. The exemptions relate to:

- imminent risk of death or serious injury (refer s261A)
- imminent risk of serious damage to a building or other structure on land, or to personal property (refer s261B)
- *Fire and Emergency Service Act 1990* (refer 261C)
- previously cleared areas (refer s261ZB)
- maintenance activities (refer s261ZC)
- firebreak or fire management line (refer s261ZD)
- self-assessable vegetation clearing code (refer s261ZE)
- conservation purposes (refer s261ZG)
- authorised in particular circumstances (refer s385).

Some exemptions under the NCA are the same as exempt clearing work (formerly known as exemptions) from the *Vegetation Management Act 1999* (i.e. listed in the Planning Regulations 2017) while some are different.

If the proposed area to be cleared is shown as blue (i.e. high risk) on the flora survey trigger map, a flora survey of the clearing impact area must be undertaken in accordance with the flora survey guidelines. The main objective of a flora survey is to locate any endangered, vulnerable or near threatened plants (EVNT plants) that may be present in the clearing impact area.

If a flora survey identifies that EVNT plants are not present within the clearing impact area or clearing within 100m of EVNT plants can be avoided, the clearing activity is exempt from a permit. An [exempt clearing notification form](#) must be submitted to the Department of Environment and Science, with a copy of the flora survey report, at least one week prior to clearing. The clearing must be conducted within two years after the flora survey report was submitted.

If a flora survey identifies that EVNT plants are present in, or within 100m of, the area to be cleared, a clearing permit is required before any clearing is undertaken. The flora survey report, as well as an impact management report, must be submitted with the [application form clearing permit](#).

In an area other than a high risk area, a clearing permit is only required where a person is, or becomes aware that EVNT plants are present in, or within 100m of, the area to be cleared. You must keep a copy of the flora survey trigger map for the area subject to clearing for five years from the day the clearing starts. If you do not clear within the 12 month period that the flora survey trigger map was printed, you need to print and check a new flora survey trigger map.

Further information on protected plants is available at <http://www.ehp.qld.gov.au/licences-permits/plants-animals/protected-plants/>

For assistance on the protected plants flora survey trigger map for this property, please contact the Department of Environment and Science at palm@des.qld.gov.au.

3.8 Emissions Reduction Fund (ERF)

The ERF is an Australian Government scheme which offers incentives for businesses and communities across the economy to reduce emissions.

Under the ERF, farmers can earn money from activities such as planting (and keeping) trees, managing regrowth vegetation and adopting more sustainable agricultural practices.

The purpose of a project is to remove greenhouse gases from the atmosphere. Each project will provide new economic opportunities for farmers, forest growers and land managers.

Further information on ERF is available at <https://www.qld.gov.au/environment/land/state/use/carbon-rights/>.

4. Contact information for DNRME

For further information on vegetation management:

Phone 135VEG (135 834)

Email vegetation@dnrme.qld.gov.au

Visit www.dnrme.qld.gov.au/our-department/contact-us/vegetation-contacts to submit an online enquiry.

For contact details for other State and Commonwealth agencies, please see the "Other relevant legislation contacts list" in Section 6.

5. Maps

The maps included in this report may also be requested individually at:

<https://www.dnrme.qld.gov.au/qld/environment/land/vegetation/vegetation-map-request-form>
and

<http://www.ehp.qld.gov.au/licences-permits/plants-animals/protected-plants/map-request.php>

Regulated vegetation management map

The regulated vegetation management map shows vegetation categories to determine clearing requirements. These maps are updated monthly to show new property maps of assessable vegetation (PMAV).

Vegetation management supporting map

The vegetation management supporting map provides information on regional ecosystems, wetlands, watercourses and essential habitat.

Land suitability map

The land suitability map assists with identifying the land suitability category under the high-value and irrigated high-value agriculture vegetation clearing purpose.

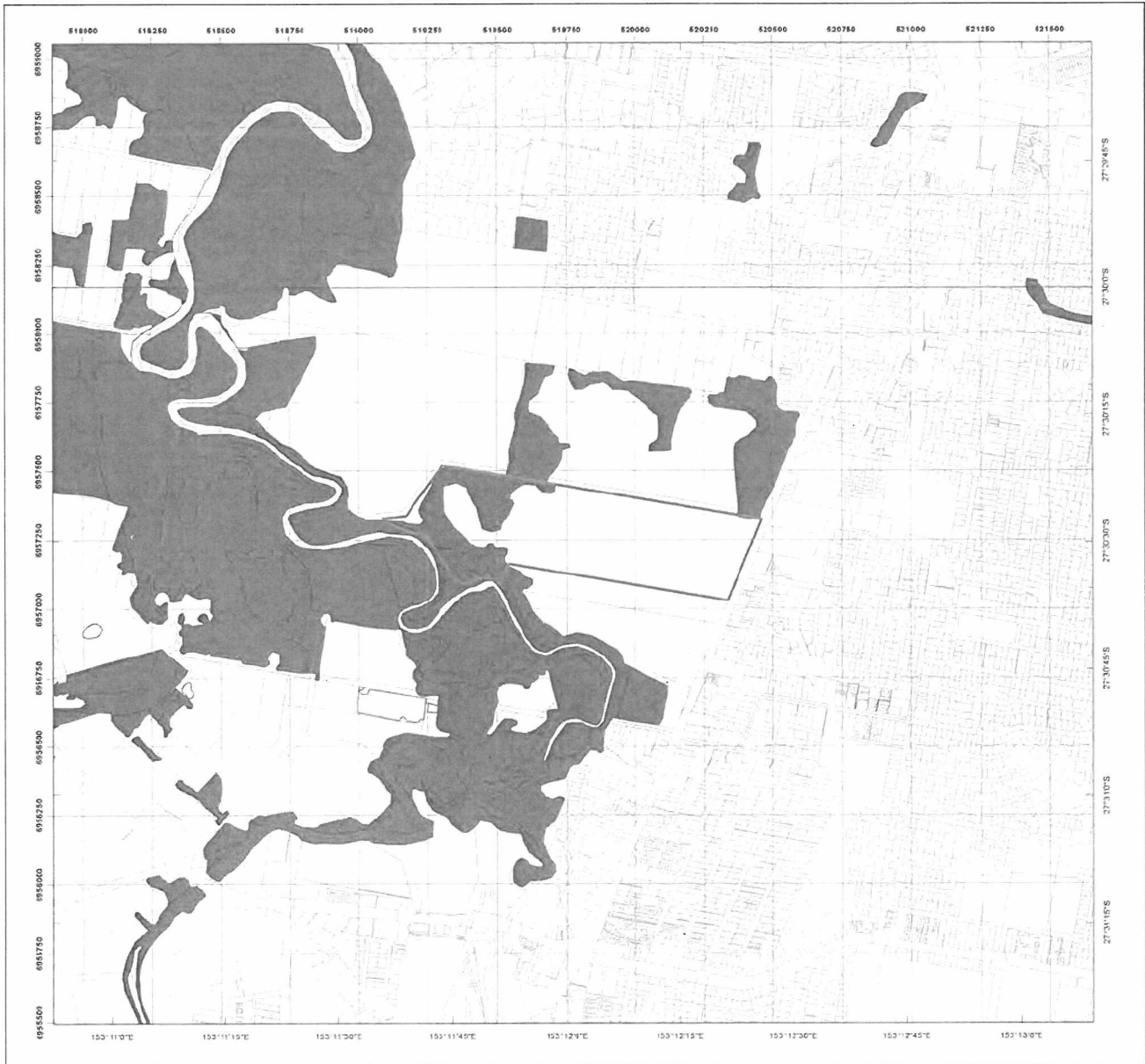
Coastal/non coastal map

The coastal/non-coastal map confirms whether the lot, or which parts of the lot, are considered coastal or non-coastal for the purposes of the self-assessable vegetation clearing codes and the State Development Assessment Provisions (SDAP).

Protected plants map

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

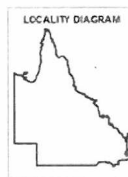
5.1 Regulated vegetation management map



Regulated Vegetation Management Map

Legend

- Lot and Plan
- Category A area (Vegetation offsets/compliance notices/VDecs)
- Category B area (Remnant vegetation)
- Category C area (High-value regrowth vegetation)
- Category R area (Reef regrowth watercourse vegetation)
- Category X area (Exempt clearing work on Freehold, Indigenous and Leasehold land)
- Water
- Area not categorised
- Cadastral line
- Property boundaries shown are provided as a locational aid only



Disclaimer:

While every care is taken to ensure the accuracy of this product the Department of Natural Resources, Mines and Energy makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

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.



This product is projected into:
GDA 1994 MGA Zone 56

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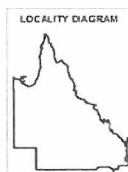
5.2 Vegetation management supporting map



Vegetation Management Supporting Map

Legend

- Lot and Plan
- 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 20A
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



0 140 280 420 560 700 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.

Disclaimer:

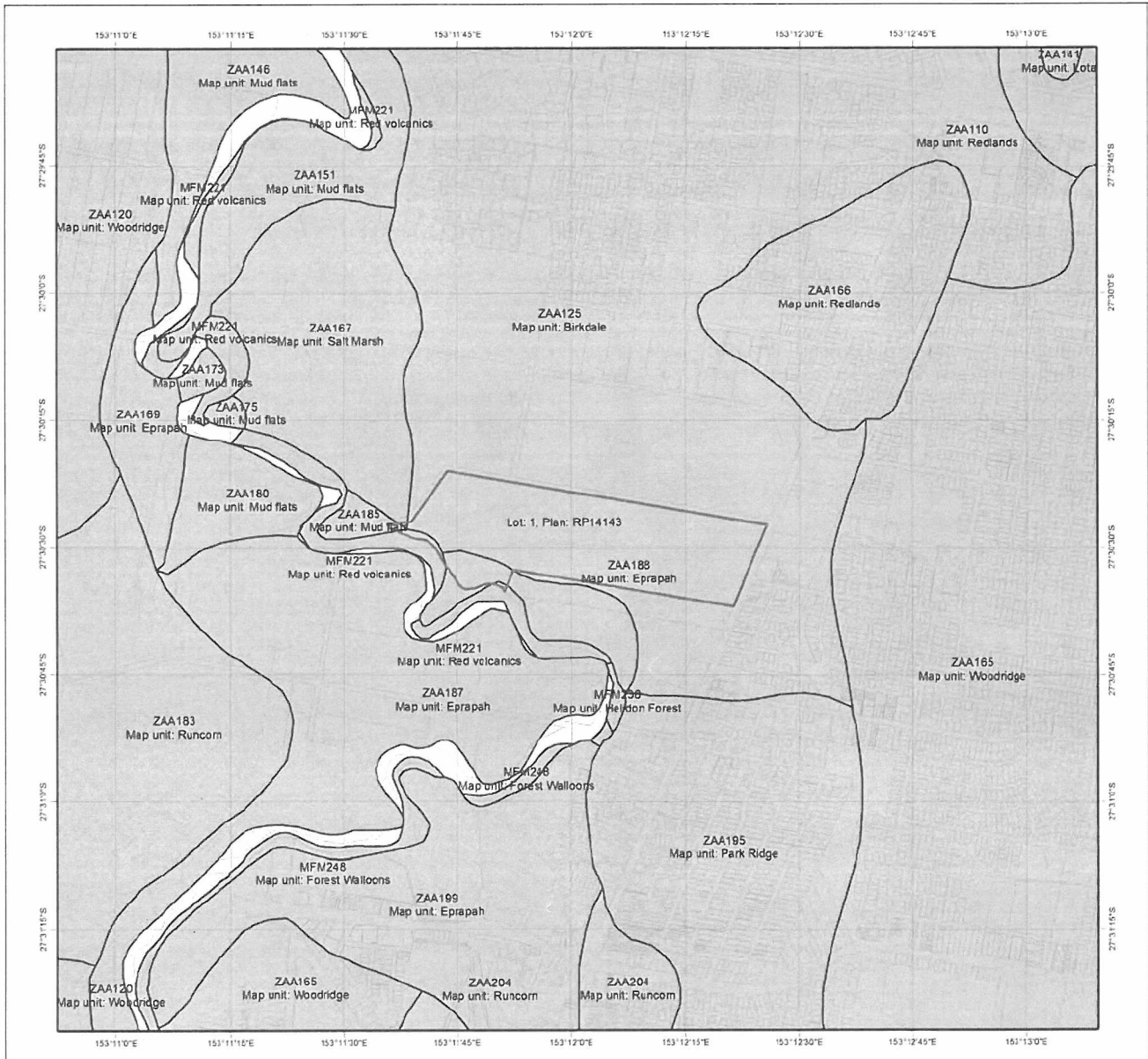
While every care is taken to ensure the accuracy of this product, the Department of Natural Resources, Mines and Energy makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

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/>



5.3 Land suitability map

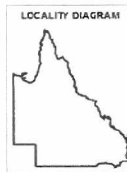


Land Suitability Overview Map

Legend

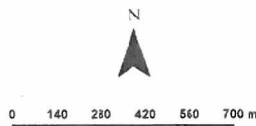
- Lot and Plan
- Cadastral Boundaries
- Land suitability mapping 1:100,000 scale or better (Category 2 or 3*)
- Land suitability mapping greater than 1:100,000 scale (Category 4)
- No mapping available (Category 4)

* Category 3 applies to applications where there is some land resource mapping or information available however it either does not cover the entire area, or the land suitability mapping and information does not identify the land as suitable for the proposed crop and management systems.



Disclaimer

All persons and organisations by using this map take all responsibility for assessing the relevance and accuracy of the map contents for their purpose and accept all risks associated with its use. The State of Queensland (as represented by the Department of Natural Resources, Mines and Energy) makes no representations or warranties in relation to the map contents, and, to the extent permitted by law, excludes or limits all warranties relating to correctness, accuracy, reliability, completeness or currency and all disclaims all liability for any direct, indirect and consequential costs, losses, damages and expenses incurred in any way (including but not limited to that arising from negligence) in connection with any use of or reliance on the map contents.



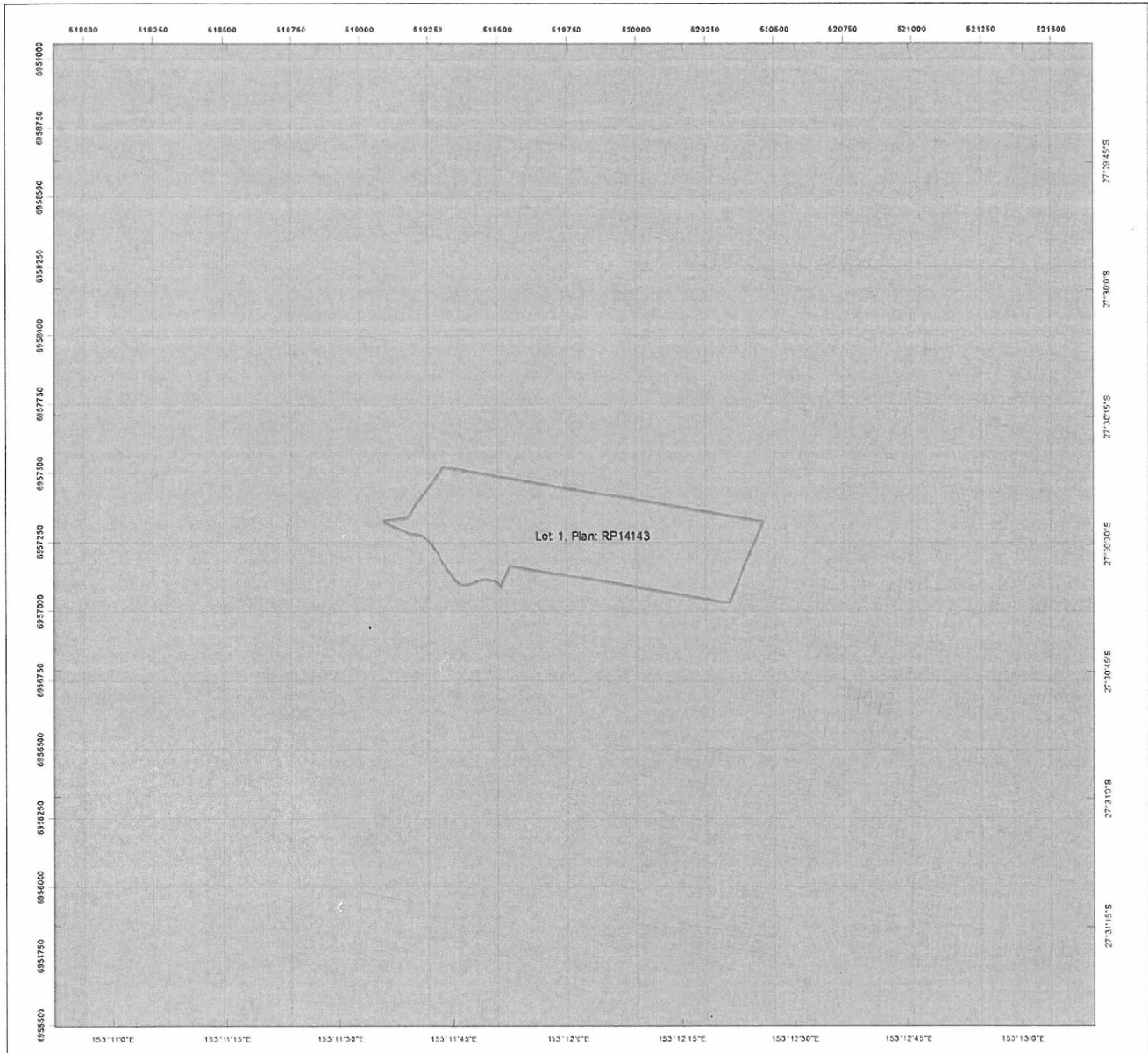
This product is projected into:
GDA 1994 MGA Zone 56

Important information

The Land Suitability Overview Map assists with identifying the Land Suitability category under the high value and irrigated high value agriculture vegetation clearing purpose. This map provides detailed land suitability, agricultural land classification, or soil and land resource mapping data where it is available on the selected lots. Where no data is available, the maps will be blank, with no mapping visible.






Further information on these categories is available in the Guideline for applying to clear for high-value or irrigated high-value agriculture (www.dnrme.qld.gov.au).

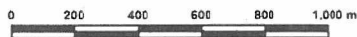
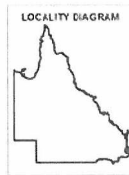
5.4 Coastal/non coastal map



Coastal/Non Coastal Map

Legend

-  Lot and Plan
-  Coastal
-  Non Coastal
-  Cadastral line
-  Property boundaries shown are provided as a locational aid only



This product is projected into
GDA 1994 MGA Zone 56

Disclaimer:

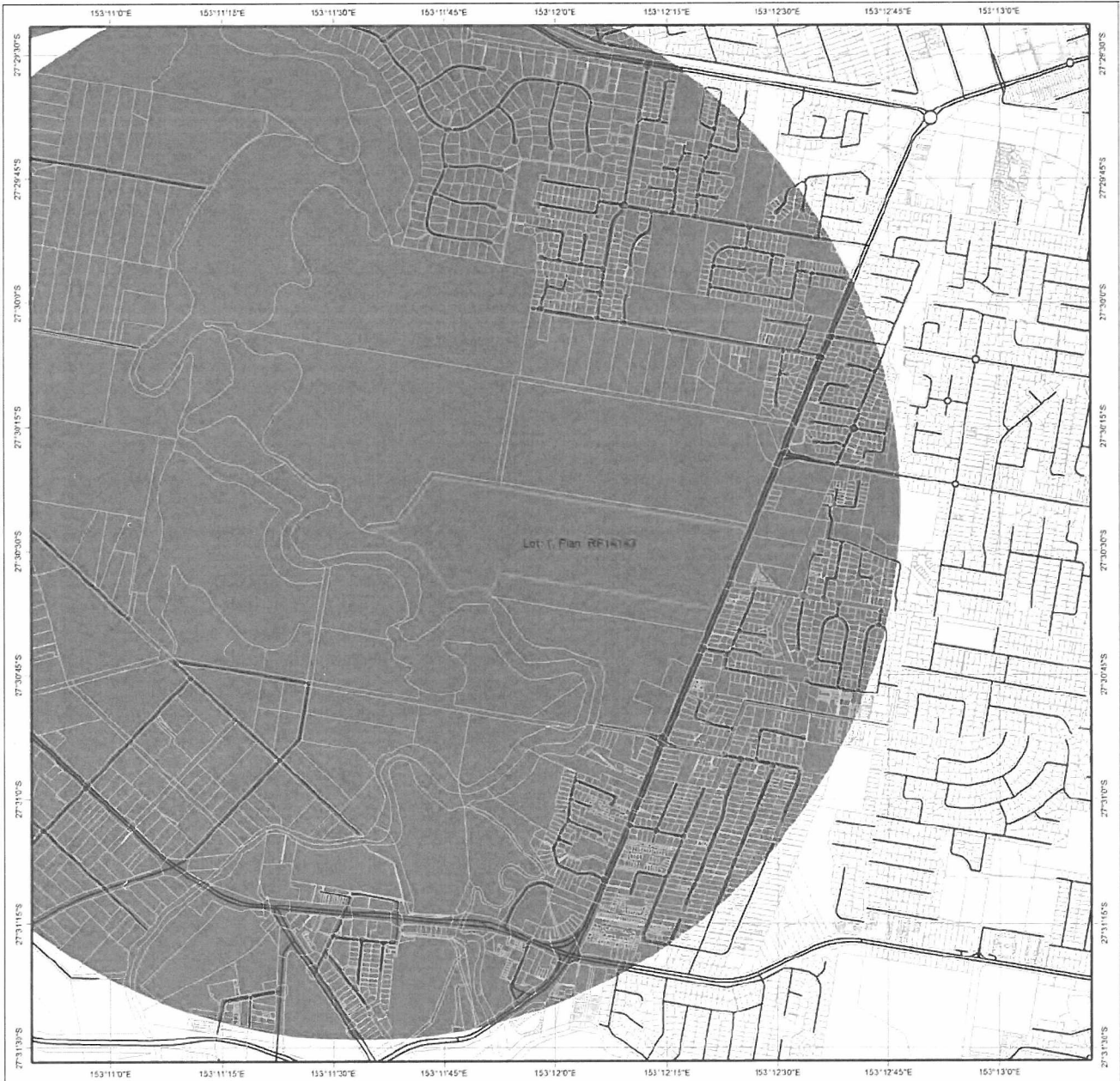
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5.5 Protected plants map administered by DES



Protected Plants Flora Survey Trigger Map

Legend

-  Lot and Plan
-  High risk area
-  Cadastral line
- Property boundaries shown are provided as a locational aid only
-  Freeways / motorways / highways
-  Secondary roads / streets



0 140 280 420 560 700 m

This product is projected into:
GDA 1994 MGA Zone 56

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.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@ehp.qld.gov.au

Disclaimer:
While every care is taken to ensure the accuracy of the data used to generate this product, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred as a consequence of reliance on the data or as a result of the data being inaccurate or incomplete in any way and for any reason.

6. Other relevant legislation contacts list

Activity	Legislation	Agency	Contact details
Interference with overland flow Earthworks, significant disturbance	<i>Water Act 2000</i> <i>Soil Conservation Act 1986</i>	Department of Natural Resources, Mines and Energy (Queensland Government)	Ph: 13 QGOV (13 74 68) www.dnrme.qld.gov.au
Indigenous Cultural Heritage	<i>Aboriginal Cultural Heritage Act 2003</i> <i>Torres Strait Islander Cultural Heritage Act 2003</i>	Department of Aboriginal and Torres Strait Islander Partnerships (Queensland Government)	Ph: 13 QGOV (13 74 68) www.datsip.qld.gov.au
Mining and environmentally relevant activities Infrastructure development (coastal) Heritage issues Protected plants and protected areas ¹	<i>Environmental Protection Act 1994</i> <i>Coastal Protection and Management Act 1995</i> <i>Queensland Heritage Act 1992</i> <i>Nature Conservation Act 1992</i>	Department of Environment and Science (Queensland Government)	Ph: 13 QGOV (13 74 68) www.des.qld.gov.au
Interference with fish passage in a watercourse, mangroves Forestry activities	<i>Fisheries Act 1994</i> <i>Forestry Act 1959</i> ²	Department of Agriculture and Fisheries (Queensland Government)	Ph: 13 QGOV (13 74 68) www.daf.qld.gov.au
Matters of National Environmental Significance including listed threatened species and ecological communities	<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Department of the Environment (Australian Government)	Ph: 1800 803 772 www.environment.gov.au
Development and planning processes	<i>Planning Act 2016</i>	Department of State Development, Manufacturing, Infrastructure and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) www.statedevelopment.qld.gov.au
State Development	<i>State Development and Public Works Organisation Act 1971</i>	Department of State Development, Manufacturing, Infrastructure and Planning (Queensland Government)	Ph: 13 QGOV (13 74 68) www.statedevelopment.qld.gov.au
Local government requirements	<i>Local Government Act 2009</i>	Local government	Contact your relevant local government office

1. In Queensland, all plants that are native to Australia are protected plants under the *Nature Conservation Act 1992*, which endeavours to ensure that protected plants (whether whole plants or protected plants parts) are not illegally removed from the wild, or illegally traded. Prior to clearing, you should check the flora survey trigger map to determine if the clearing is within a high-risk area by visiting www.des.qld.gov.au. For further information or assistance on the protected plants flora survey trigger map for your property, please contact the Department of Environment and Science on 13QGOV (13 74 68) or email palm@des.qld.gov.au.

2. Contact the Department of Agriculture and Fisheries before clearing:

- Any sandalwood on state-owned land (including leasehold land)
- On freehold land in a 'forest consent area'
- More than five hectares on state-owned land (including leasehold land) containing commercial timber species listed in parts 2 or 3 of Schedule 6 of the Vegetation Management Regulation 2012 and located within any of the following local government management areas-Banana, Bundaberg Regional, Fraser Coast Regional, Gladstone Regional, Isaac Regional, North Burnett Regional, Somerset Regional, South Burnett Regional, Southern Downs Regional, Tablelands Regional, Toowoomba Regional, Western Downs Regional.



EPBC Act Protected Matters Report

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

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

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

Report created: 14/03/18 13:28:56

Summary

Details

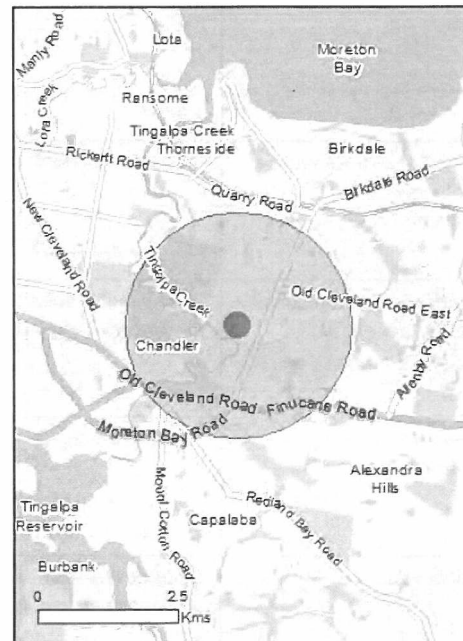
[Matters of NES](#)

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

[Extra Information](#)

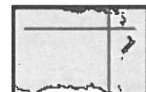
Caveat

Acknowledgements



This map may contain data which are
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Coordinates
Buffer: 2.0Km



Summary

Matters of National Environmental Significance

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

<u>World Heritage Properties:</u>	None
<u>National Heritage Places:</u>	None
<u>Wetlands of International Importance:</u>	1
<u>Great Barrier Reef Marine Park:</u>	None
<u>Commonwealth Marine Area:</u>	None
<u>Listed Threatened Ecological Communities:</u>	2
<u>Listed Threatened Species:</u>	36
<u>Listed Migratory Species:</u>	18

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.

<u>Commonwealth Land:</u>	None
<u>Commonwealth Heritage Places:</u>	None
<u>Listed Marine Species:</u>	26
<u>Whales and Other Cetaceans:</u>	None
<u>Critical Habitats:</u>	None
<u>Commonwealth Reserves Terrestrial:</u>	None
<u>Commonwealth Reserves Marine:</u>	None

Extra Information

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

<u>State and Territory Reserves:</u>	2
<u>Regional Forest Agreements:</u>	None
<u>Invasive Species:</u>	43
<u>Nationally Important Wetlands:</u>	None
<u>Key Ecological Features (Marine)</u>	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[Resource Information]
Name <u>Moreton bay</u>	Proximity Within 10km of Ramsar

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
<u>Lowland Rainforest of Subtropical Australia</u>	Critically Endangered	Community may occur within area
<u>Subtropical and Temperate Coastal Saltmarsh</u>	Vulnerable	Community likely to occur within area

Listed Threatened Species [Resource Information]

Name	Status	Type of Presence
Birds		
<u>Anthochaera phrygia</u> Regent Honeyeater [82338]	Critically Endangered	Species or species habitat known to occur within area
<u>Botaurus poiciloptilus</u> Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
<u>Calidris canutus</u> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<u>Dasyornis brachypterus</u> Eastern Bristlebird [533]	Endangered	Species or species habitat likely to occur within area
<u>Erythrotriorchis radiatus</u> Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
<u>Geophaps scripta scripta</u> Squatter Pigeon (southern) [64440]	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
<u>Limosa lapponica baueri</u> Bar-tailed Godwit (<i>baueri</i>), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
<u>Limosa lapponica menzbieri</u> Northern Siberian Bar-tailed Godwit, Bar-tailed	Critically Endangered	Species or species

Name	Status	Type of Presence
<u>Godwit (menzbieri)</u> [86432]		habitat may occur within area
<u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<u>Pachyptila turtur subantarctica</u> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
<u>Poephila cincta cincta</u> Southern Black-throated Finch [64447]	Endangered	Species or species habitat may occur within area
<u>Rostratula australis</u> 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 may occur within area
Insects		
<u>Argynnis hyperbius inconstans</u> Australian Fritillary [88056]	Critically Endangered	Species or species habitat may occur within area
Mammals		
<u>Chalinolobus dwyeri</u> Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat may occur within area
<u>Dasyurus hallucatus</u> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminiji [Martu] [331]	Endangered	Species or species habitat may occur within area
<u>Dasyurus maculatus maculatus (SE mainland population)</u> Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat may occur within area
<u>Petauroides volans</u> Greater Glider [254]	Vulnerable	Species or species habitat may occur within area
<u>Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</u>		
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
<u>Potorous tridactylus tridactylus</u> Long-nosed Potoroo (SE mainland) [66645]	Vulnerable	Species or species habitat may occur within area
<u>Pteropus poliocephalus</u> Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area
<u>Xeromys myoides</u> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat likely to occur within area
Plants		
<u>Arthraxon hispidus</u> Hairy-joint Grass [9338]	Vulnerable	Species or species habitat may occur within area
<u>Baloghia marmorata</u> Marbled Baloghia, Jointed Baloghia [8463]	Vulnerable	Species or species habitat may occur within area
<u>Bosistoa transversa</u> Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
<u>Cryptocarya foetida</u> Stinking Cryptocarya, Stinking Laurel [11976]	Vulnerable	Species or species habitat may occur within area
<u>Endiandra floydii</u> Floyd's Walnut [52955]	Endangered	Species or species habitat may occur within area
<u>Macadamia integrifolia</u> Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat likely to occur within area
<u>Macadamia tetraphylla</u> Rough-shelled Bush Nut, Macadamia Nut, Rough-shelled Macadamia, Rough-leaved Queensland Nut [6581]	Vulnerable	Species or species habitat may occur within area
<u>Phaius australis</u> Lesser Swamp-orchid [5872]	Endangered	Species or species habitat likely to occur within area
<u>Samadera bidwillii</u> Quassia [29708]	Vulnerable	Species or species habitat likely to occur within area
<u>Thesium australe</u> Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area
Reptiles		
<u>Delma torquata</u> Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
<u>Saiphos reticulatus</u> Three-toed Snake-tooth Skink [88328]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
<u>Apus pacificus</u> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<u>Ardenna carneipes</u> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
<u>Cuculus optatus</u> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
<u>Hirundapus caudacutus</u> White-throated Needletail [682]		Species or species habitat known to occur within area
<u>Monarcha melanopsis</u> Black-faced Monarch [609]		Species or species habitat known to occur within area
<u>Monarcha trivirgatus</u> Spectacled Monarch [610]		Species or species habitat likely to occur within area
<u>Myiagra cyanoleuca</u> Satin Flycatcher [612]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<u>Rhipidura rufifrons</u> Rufous Fantail [592]		Species or species habitat likely to occur within area
Migratory Wetlands Species		
<u>Actitis hypoleucos</u> Common Sandpiper [59309]		Species or species habitat known to occur within area
<u>Calidris acuminata</u> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<u>Calidris canutus</u> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<u>Calidris melanotos</u> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<u>Gallinago hardwickii</u> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<u>Limosa lapponica</u> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<u>Pandion haliaetus</u> Osprey [952]		Breeding known to 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

Listed Marine Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
<u>Actitis hypoleucos</u> Common Sandpiper [59309]		Species or species habitat known to occur within area
<u>Anseranas semipalmata</u> Magpie Goose [978]		Species or species habitat may occur within area
<u>Apus pacificus</u> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<u>Ardea alba</u> Great Egret, White Egret [59541]		Breeding known to occur within area
<u>Ardea ibis</u> Cattle Egret [59542]		Species or species

Name	Threatened	Type of Presence habitat may occur within area
<u>Calidris acuminata</u> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<u>Calidris canutus</u> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<u>Calidris melanotos</u> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<u>Cuculus saturatus</u> Oriental Cuckoo, Himalayan Cuckoo [710]		Species or species habitat may occur within area
<u>Gallinago hardwickii</u> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<u>Haliaeetus leucogaster</u> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<u>Hirundapus caudacutus</u> 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
<u>Limosa lapponica</u> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Merops ornatus</u> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<u>Monarcha melanopsis</u> Black-faced Monarch [609]		Species or species habitat known to occur within area
<u>Monarcha trivirgatus</u> Spectacled Monarch [610]		Species or species habitat likely to occur within area
<u>Myiagra cyanoleuca</u> Satin Flycatcher [612]		Species or species habitat known to occur within area
<u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<u>Pachyptila turtur</u> Fairy Prion [1066]		Species or species habitat likely to occur within area
<u>Pandion haliaetus</u> Osprey [952]		Breeding known to occur within area
<u>Puffinus carneipes</u> Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
<u>Rhipidura rufifrons</u> Rufous Fantail [592]		Species or species habitat likely to occur within area
<u>Rostratula benghalensis (sensu lato)</u> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<u>Tringa nebularia</u> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Coolnwynpin Creek Corridor Koala (A)	QLD
Coolnwynpin Creek Corridor Koala (B)	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 Resources Audit, 2001.	

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

Name	Status	Type of Presence
Rhinella marina Cane Toad [83218]		Species or species habitat likely to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		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
Annona glabra Pond Apple, Pond-apple Tree, Alligator Apple, Bullock's Heart, Cherimoya, Monkey Apple, Bobwood, Corkwood [6311]		Species or species habitat may occur within area
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus africanus Climbing Asparagus, Climbing Asparagus Fern [66907]		Species or species habitat likely to occur within area
Cabomba caroliniana Cabomba, Fanwort, Carolina Watershield, Fish Grass, Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within

Name	Status	Type of Presence 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]		Species or species habitat likely to occur within area
Dolichandra unguis-cati Cat's Claw Vine, Yellow Trumpet Vine, Cat's Claw Creeper, Funnel Creeper [85119]		Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		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]		Species or species habitat likely to occur within area
Opuntia spp. Prickly Pears [82753]		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
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Protasparagus densiflorus Asparagus Fern, Plume Asparagus [5015]		Species or species habitat likely to occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Sagittaria platyphylla Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		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
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-27.510024 153.201558

Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact Us](#) page.

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Annex B

Likelihood of Occurrence

Likelihood of occurrence – Threatened Ecological Communities

Scientific Name	EPBC Act Status ¹	Distribution and Habitat Description ²	Records within site	Records within locality	Distribution	Habitat	LoO
THREATENED ECOLOGICAL COMMUNITIES							
Lowland Rainforest of Subtropical Australia	CE	<p>Community primarily occurs from Maryborough in Queensland to the Clarence River (near Grafton) in New South Wales (NSW). (DSEWPaC 2011a).</p> <p>The ecological community is generally a moderately tall (≥20 m) to tall (≥30 m) closed forest.</p> <p>Typically there is a relatively low abundance of species from the genera <i>Eucalyptus</i>, <i>Melaleuca</i> and <i>Casuarina</i>. Buttresses are common as is an abundance and diversity of vines (DSEWPaC 2011a).</p>	-	-	✓	*	Unlikely
Subtropical and Temperate Coastal Saltmarsh	V	<p>The Coastal Saltmarsh ecological community is mainly associated with the soft substrate shores of estuaries and embayments and on some open, low wave energy coasts.</p> <p>The Coastal Saltmarsh ecological community consists mainly of salt-tolerant vegetation including: grasses, herbs, sedges, rushes and shrubs. One regional ecosystem from the South East Queensland bioregion equates to the coastal saltmarshes ecological community. This is: RE 12.1.2 Saltpan vegetation including grassland and herbland on marine clay plains (DSEWPaC 2013).</p>	✓	-	-	-	Known

Likelihood of occurrence – threatened flora and fauna species

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
FLORA								
<i>Arthraxon hispidus</i>	Hairy-joint Grass	V	<p>In Queensland it occurs north to Port Douglas, and west to mound springs in Carnavon National Park; however, most occurrences are from Noosa southwards (DEHWA 2008a). The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>In NSW and Queensland, Hairy-joint Grass is found in or on the edges of rainforest and in wet eucalypt forest, often near creeks or swamps, as well as woodland (DEHWA 2008a).</p>	*	*	✓	*	Unlikely
<i>Baloghia marmorata</i>	Marbled Balogia	V	<p>The Queensland marbled Balogia distribution is confined to the Tamborine Mountains and Springbrook (DEWHA 2008b). The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>Marbled Balogia is found in subtropical rainforest/notophyll vine forest and wet sclerophyll forest with rainforest understorey between 150 and 550 m above sea level (DEWHA 2008b).</p>	*	*	✓	*	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Bosistoa transversa</i>	Three-leaved Bosistoa	V	<p>Three-leaved Bosistoa is known from the Richmond River, NSW, to Mt Lacom near Gladstone, Queensland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>Three-leaved Bosistoa grows in wet sclerophyll forest, dry sclerophyll forest and rainforest up to 300m in altitude.</p>	*	*	✓	*	Unlikely
<i>Cryptocarya foetida</i>	Stinking Cryptocarya	V	<p>The Stinking Cryptocarya has been recorded from near Iluka, on the north coast of New South Wales, to Fraser Island in Queensland. The site is within the DoEE mapped 'species or species habitat may occur' distribution for the species.</p> <p>The Stinking Cryptocarya is restricted to coastal sands, or if not, then close to the coast, occurring in littoral rainforest on old sand dunes and subtropical rainforests over slate and occasionally on basalt to an altitude of 150 m.</p>	*	*	✓	*	Unlikely
<i>Endiandra floydii</i>	Floyd's Walnut	E	<p>Confined to one or two locations in south-east Queensland (OEH 2018). The site on the edge of the DoEE mapped 'species or species habitat may occur' distribution for the species.</p> <p>Warm temperate, subtropical rainforest or wet sclerophyll forest with Brush Box overstorey, and in and Camphor Laurel forest. The species can occur in disturbed and regrowth sites. The species generally prefers sheltered locations however it has been recorded on ridgelines, slopes, gullies and creek flats (OEH 2018).</p>	*	*	✓	*	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Macadamia integrifolia</i>	Macadamia Nut	V	<p>The Macadamia Nut is found in remnant rainforest in northern NSW and south-east Queensland. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>The Macadamia Nut grows in remnant rainforest, preferring partially open areas such as rainforest edges. Vegetation communities in which the Macadamia Nut is found range from complex notophyll mixed forest, extremely tall closed forest, simple notophyll mixed very tall closed forest to simple microphyll-notophyll mixed mid-high closed forest with <i>Araucaria</i> and <i>Argyrodendron</i> emergents.</p>	*	*	✓	*	Unlikely
<i>Macadamia tetraphylla</i>	Rough-shelled Bush Nut	V	<p>Rough-shelled Bush Nut occurs from northern NSW to south-east Queensland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>Rough-shelled Bush Nut generally occurs in subtropical rainforest and complex notophyll vineforest, at the margins of these forests and in mixed sclerophyll forest. It occurs in restricted habitat, growing on moderate to steep hillslopes on alluvial soils at well-drained sites.</p>	*	*	✓	*	Unlikely
<i>Phaius australis</i>	Lesser Swamp-orchid	E	<p>The Lesser Swamp-orchid occurs in southern Queensland and northern NSW. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>The Lesser Swamp-orchid is commonly associated with coastal wet heath/sedgeland wetlands, swampy grassland or swampy forest and often where Broad-leaved Paperbark or Swamp Mahogany are found.</p>	*	✓	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Samadera bidwillii</i>	Quassia	V	<p>Quassia is currently known to occur in several localities between Scawfell Island, near Mackay, and Goomboorian, north of Gympie. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>Quassia commonly occurs in lowland rainforest or on rainforest margins, but it can also be found in other forest types, such as open forest and woodland. Quassia is commonly found in areas adjacent to both temporary and permanent watercourses.</p>	*	*	✓	✓	Potential
<i>Thesium australe</i>	Austral Toadflax	V	<p>The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>Austral Toadflax is semi-parasitic on roots of a range of grass species, notably Kangaroo Grass (<i>Themeda triandra</i>). It occurs in subtropical, temperate and subalpine climates over a wide range of altitudes. It occurs on soils derived from sedimentary, igneous and metamorphic geology on a range of soils including black clay loams to yellow podzolics and peaty loams.</p>	*	*	✓	*	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
REPTILES								
<i>Delma torquata</i>	collared delma	V	<p>Recorded in central and south east Queensland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>Inhabits eucalypt-dominated woodlands and open-forests in Regional Ecosystem (RE) Land Zones: 3, 9 and 10.</p> <p>Tends to be found on ridge tops and slopes. The presence of rocks, logs, bark and other coarse woody debris, and mats of leaf litter appears to be an essential characteristic of the collared delma microhabitat.</p>	*	*	✓	*	Unlikely
<i>Saiphos reticulatus</i>	Three-toed Snake-tooth Skink	V	<p>The Three-toed Snake-tooth Skink occurs from Crescent Head in north-east NSW to Fraser Island in south-east Queensland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The Three-toed Snake-tooth Skink has been found in loose, well mulched friable soil, in and under rotting logs, in forest litter, under fallen hoop pine bark and under decomposing cane mulch. In Queensland, the Three-toed Snake-tooth Skink has been recorded in rainforest, closed forest, wet sclerophyll forest, tall open Blackbutt (<i>Eucalyptus pilularis</i>) forest, tall layered open eucalypt forest and closed Brush Box (<i>Lophostemon confertus</i>) forest.</p>	*	*	✓	*	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Argynnis hyperbius inconstans</i>	Australian Fritillary	CE	<p>The Australian fritillary has been recorded in scattered locations across south-eastern Queensland and north-eastern New South Wales (TSSC 2017). The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The Australian fritillary is restricted to areas where its larval food plant, <i>Viola betonicifolia</i> (the arrowhead violet), occurs (TSSC 2017).</p>	*	*	✓	*	Unlikely

MAMMALS

<i>Chalinolobus dwyeri</i>	large-eared pied bat	V	<p>In Queensland, this species is associated with the central Queensland sandstone belt – namely the Carnarvon Ranges, Blackdown Tableland and Cania Gorge. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>This species occurs where sandstone gorges/cliffs occur near tall open forest, dry sclerophyll forests and woodland, and forest ecotones. It roosts in caves, crevices, holes in cliffs, mines and fairy martin (<i>Petrochelidon ariel</i>) nests. It forages within a few kilometres of roosting habitat.</p>	*	*	✓	*	Unlikely
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Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Dasyurus hallucatus</i>	northern quoll	E	<p>In Queensland, the northern quoll is known to occur as far south as Gracemere and Mt Morgan, south of Rockhampton, as far north as Weipa, and extends west into central Queensland to the vicinity of Carnarvon Range National Park. There are occasionally records as far south in Queensland as Maleny on the Sunshine Coast hinterland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The species occupies a diversity of habitats across its range which includes rocky areas, eucalypt forest and woodlands, rainforests, sandy lowlands and beaches, shrubland, grasslands and desert. Northern quoll habitat generally encompasses some form of rocky area for denning purposes with surrounding vegetated habitats used for foraging and dispersal.</p>	*	*	✓	*	Unlikely
<i>Dasyurus maculatus maculatus</i> (SE mainland population)	spot-tailed quoll	E	<p>The Spot-tailed Quoll occurs in south-east Queensland: coastally from Bundaberg to the border and inland to Monto and Stanthorpe. The site is within the DoEE mapped 'species or species habitat may occur' distribution for the species.</p> <p>Variety of habitat including sclerophyll forest and woodlands, coastal heathlands and rainforests. Requires intact vegetation through which to forage and suitable den sites (tree hollows and logs).</p>	*	*	✓	*	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Petauroides volans</i>	greater glider	V	<p>The greater glider is restricted to eastern Australia, occurring from the Windsor Tableland in north Queensland through to central Victoria. The site is within the DoEE mapped 'species or species habitat may occur' distribution for the species.</p> <p>The greater glider is largely restricted to eucalypt forests and woodlands. It is primarily folivorous, with a diet mostly comprising eucalypt leaves, and occasionally flowers. It is typically found in eucalypt forests with relatively old trees and abundant hollows. The greater glider favours forests with a diversity of eucalypt species. During the day it shelters in tree hollows.</p>	*	✓	✓	✓	Potential
<i>Phascolarctos cinereus</i>	koala	V	<p>The species' range extends from north-eastern Queensland to the south-east corner of South Australia. The site is within the DoEE mapped 'species or species habitat likely to occur' distribution for the species.</p> <p>Koalas naturally inhabit a range of temperate, sub-tropical and tropical forest, woodland and semi-arid communities dominated by <i>Eucalyptus</i> species.</p>	✓	✓	✓	✓	Known
<i>Potorous tridactylus tridactylus</i>	Long-nosed Potoroo (SE mainland)	V	<p>The Long-nosed Potoroo (SE Mainland) has scattered populations extending from south-eastern Queensland through to NSW. The site is within the DoEE mapped 'species or species habitat may occur' distribution for the species.</p> <p>The Long-nosed Potoroo (SE Mainland) is sparsely distributed along the coast and Great Dividing Range of south-east Queensland through NSW. The species can be found in wet eucalypt forests to coastal heaths and scrubs. The main factors would appear to be access to some form of dense vegetation for shelter and the presence of an abundant supply of fungi for food.</p>	*	*	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Pteropus poliocephalus</i>	grey-headed flying-fox	V	<p>The Grey-headed Flying-fox occurs in the coastal belt from Rockhampton in central Queensland to Melbourne in Victoria. The site is within the DoEE mapped 'species or species habitat likely to occur' distribution for the species.</p> <p>The Grey-headed Flying-fox utilises vegetation communities including rainforests, open forests, closed and open woodlands, <i>Melaleuca</i> swamps and <i>Banksia</i> woodlands. The primary food source is blossom from <i>Eucalyptus</i> and related genera; it also feeds on introduced tree species in urban areas.</p>	*	✓	✓	✓	Potential
<i>Xeromys myoides</i>	Water Mouse	V	<p>The water mouse occurs in three regions of coastal Australia: The Northern Territory, central south Queensland and southeast Queensland. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>In central south Queensland, the water mouse has only been captured in the high intertidal zone in tall, closed fringing mangrove forest containing only <i>Ceriops tagal</i> and/or <i>Bruguiera</i> sp. Although not considered core habitat, the Water Mouse has also been captured in saline grassland adjacent to a closed forest of <i>Ceriops tagal</i> and <i>Bruguiera</i> sp. and in closed forest of <i>Avicennia marina</i>.</p>	*	*	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
BIRDS								
<i>Anthochaera phrygia</i>	regent honeyeater	CE	<p>The Regent honeyeater has a patchy distribution, which extends from southeast Queensland, through New South Wales (NSW) and the Australian Capital Territory (ACT), to central Victoria (DoEE 2015). The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>The species mostly inhabits inland slopes of the Great Dividing Range, in areas of low to moderate relief with moist, fertile soils. It is most commonly associated with box-ironbark eucalypt woodland and dry sclerophyll forest, but also inhabits riparian vegetation such as sheoak (DoEE 2015).</p>	*	✓	✓	✓	Potential
<i>Botaurus poiciloptilus</i>	Australasian bittern	E	<p>In Australia, the species occurs from southeast Queensland to southeast South Australia, Tasmania and in the southwest of Western Australia (DSEWPaC 2011b). The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>Requires shallow water, less than 30 cm deep with medium to low density reeds, grasses or shrubs for foraging. It is largely recorded in freshwater wetlands and, rarely, in estuaries or tidal wetlands. Brackish water is tolerated in estuaries and tidal wetlands, sea coasts are avoided (DSEWPaC 2011b).</p>	*	✓	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Calidris canutus</i>	Red Knot	E, Mi (Wetland)	<p>The Red Knot is common in all the main suitable habitats around the coast of Australia. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>In Australasia the Red Knot mainly inhabit intertidal mudflats, sandflats and sandy beaches of sheltered coasts, in estuaries, bays, inlets, lagoons and harbours; sometimes on sandy ocean beaches or shallow pools on exposed wave-cut rock platforms or coral reefs.</p>	*	✓	✓	*	Unlikely
<i>Calidris ferruginea</i>	curlew sandpiper	CE, Mi (Wetland)	<p>The curlew sandpiper is widely distributed around the coast of Australia. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>The curlew sandpiper is typically associated with intertidal mudflats in coastal areas. Additionally, this species utilises coastal swamps, lakes and lagoons, as well as ponds at saltworks and sewage farms. The curlew sandpiper is less frequently recorded inland where exposed mud or sand abuts ephemeral and permanent water bodies such as lakes, dams and waterholes</p>	*	✓	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Dasyornis brachypterus</i>	eastern bristlebird	E	<p>The species has contracted to three disjunct regions of southeastern Australia: southern Queensland/northern NSW, the Illawarra and Jervis Bay region (OEH 2012). The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The habitat of the Eastern Bristlebird is defined by a similar structure of low, dense, ground or understorey vegetation. The species occupies grassland, sedgeland, heathland, swampland, scrubland, grassy sclerophyll forest and woodland, and rainforest. (OEH 2012).</p>	*	*	✓	*	Unlikely
<i>Erythrotriorchis radiatus</i>	red goshawk	V	<p>The red goshawk is very sparsely dispersed across coastal and sub-coastal Australia, from western Kimberley Division to northeastern NSW. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>The red goshawk occurs in coastal and sub-coastal areas in wooded and forested lands of tropical and warm-temperate Australia. The red goshawk nests in trees invariably within one km of permanent water. Forests of intermediate density are favoured, or ecotones between habitats of differing densities.</p>	*	*	✓	*	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Geophaps scripta scripta</i>	squatter pigeon (southern)	V	<p>The known distribution of the squatter pigeon (southern) extends south from the Burdekin-Lynd divide in the southern region of Cape York Peninsula to the Border Rivers region of northern NSW, and from the east coast to Hughenden, Longreach and Charleville, Queensland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>Natural foraging habitat for the squatter pigeon is any remnant or regrowth open-forest to sparse, open-woodland or scrub dominated by <i>Eucalyptus</i>, <i>Corymbia</i>, <i>Acacia</i> or <i>Callitris</i> species, on sandy or gravelly soils, within 3 km of a suitable, permanent or seasonal waterbody. Groundcover generally consists of patchy, tussocky grasses.</p>	x	x	✓	x	Unlikely
<i>Lathamus discolor</i>	swift parrot	E	<p>The swift parrot breeds in Tasmania during the summer and the entire population migrates north to mainland Australia for the winter. (TSSC 2016a). The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>On the mainland the swift parrot disperses widely to forage on flowers and <i>psyllid</i> lerps in <i>Eucalyptus</i> species, with the majority being found in Victoria and New South Wales (TSSC 2016a).</p>	x	x	✓	x	Unlikely

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Limosa lapponica baueri</i>	Western Alaskan Bar-tailed Godwit	V	<p>The bar-tailed godwit (both subspecies combined) has been recorded in the coastal areas of all Australian states. The site is on the edge of the species' mapped distribution.</p> <p>The bar-tailed godwit (western Alaskan) occurs mainly in coastal habitats. It has also been recorded in coastal sewage farms and saltworks, saltlakes and brackish wetlands near coasts, sandy ocean beaches, rock platforms, and coral reef-flats (TSSC 2016b).</p>	*	✓	✓	✓	Potential
<i>Limosa lapponica menzbieri</i>	Northern Siberian Bar-tailed Godwit	CE	<p>The bar-tailed godwit (both subspecies combined) has been recorded in the coastal areas of all Australian states. It is widespread in the Torres Strait and along the east and south-east coasts of Queensland, NSW and Victoria (TSSC 2016c). The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The bar-tailed godwit (northern Siberian) occurs mainly in coastal habitats. It has also been recorded in coastal sewage farms and saltworks, saltlakes and brackish wetlands near coasts, sandy ocean beaches, rock platforms, and coral reef-flats (TSSC 2016c).</p>	*	✓	✓	✓	Potential
<i>Numenius madagascariensis</i>	eastern curlew	CE, Mi (Wetland)	<p>Within Australia, the eastern curlew has a primarily coastal distribution. Eastern curlews are rarely recorded inland. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>During the non-breeding season in Australia, the eastern curlew is most commonly associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass.</p>	*	✓	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Pachyptila turtur subantarctica</i>	Fairy Prion (southern)	V	<p>The species as a whole has a circumpolar distribution, and probably frequents subtropical waters during the non-breeding period (TSSC 2015). The site is not within the DoEE mapped distribution, but abuts the 'species or species habitat likely to occur' mapped area.</p> <p>The burrows of fairy prions (southern) are usually in crevices, in hollows beneath cushions of <i>Colobanthus muscoides</i> or in burrows in peaty soil held together by a thick cover of <i>Cotula plumosa</i> (TSSC 2015).</p>	*	*	*	*	Unlikely
<i>Poephila cincta cincta</i>	southern black-throated finch	E	<p>The southern black-throated finch occurs at two general locations: Townsville, Ingham, Charters Towers area; and at scattered sites in central-eastern Queensland between Aramac and Great Basalt Wall National Park. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The southern black-throated finch occurs mainly in grassy, open woodlands and forests, typically dominated by <i>Eucalyptus</i>, <i>Corymbia</i> and <i>Melaleuca</i>, and occasionally in tussock grasslands or other habitats, often along or near watercourses, or in the vicinity of water.</p>		*	✓	*	Unlikely
<i>Rostratula australis</i>	Australian painted snipe	E	<p>The Australian painted snipe has been recorded at wetlands in all states of Australia. The site is within the DoEE 'species or species habitat likely to occur' mapped area.</p> <p>The Australian painted snipe generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans.</p>	*	*	✓	✓	Potential

Scientific Name	Common Name	EPBC Act Status ¹	Distribution and Habitat Requirements	Records within site	Records within locality	Distribution	Habitat	LoO
<i>Turnix melanogaster</i>	Black-breasted Button-quail	V	<p>The Black-breasted Button-quail is restricted to coastal and near-coastal regions of south-eastern Queensland and north-eastern New South Wales. The main populations occur within south-east Queensland. The site is within the DoEE 'species or species habitat may occur' mapped area.</p> <p>The Black-breasted Button-quail is restricted to rainforests and forests, mostly in areas with 770-1200 mm rainfall per annum. They prefer drier low closed forests, particularly semi-evergreen vine thicket, low microphyll vine forest, araucarian microphyll vine forest and araucarian notophyll vine forest</p>	*	*	*	*	Unlikely

1. Conservation Status: V = Vulnerable, E = Endangered, CE = Critically Endangered, Mi = Migratory
2. Distribution and Habitat Requirements are sourced from the DoEE Species Profiles and Threats database unless otherwise specified.
3. 'Locality' refers to a 2 km buffer of the site for Wildlife Online searches and a 5 km buffer of the site for Atlas of Living Australia searches.

Department of Sustainability, Environment, Water, Population and Communities (2011a). *Approved Conservation Advice for the Lowland Rainforest of Subtropical Australia*. Canberra, ACT: Department of Sustainability, Environment, Water, Population and Communities. Available from: <http://www.environment.gov.au/biodiversity/threatened/communities/pubs/101-conservation-advice.pdf>.

Department of Sustainability, Environment, Water, Population and Communities (2011b). *Approved Conservation Advice for Botaurus poiciloptilus (Australasian Bittern)*. Canberra, ACT: Department of Sustainability, Environment, Water, Population and Communities. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/1001-conservation-advice.pdf>.

Department of Sustainability, Environment, Water, Population and Communities (2013). *Conservation Advice for SUBTROPICAL AND TEMPERATE COASTAL SALTMARSH*. Canberra: Department of Sustainability, Environment, Water, Population and Communities. Available from: <http://www.environment.gov.au/biodiversity/threatened/communities/pubs/118-conservation-advice.pdf>.

Department of the Environment (2015). *Conservation Advice Anthochaera phrygia regent honeyeater*. Canberra: Department of the Environment. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/82338-conservation-advice.pdf>.

Department of the Environment, Water, Heritage and the Arts (2008a). *Approved Conservation Advice for Arthraxon hispidus (Hairy-joint Grass)*. Canberra: Department of the Environment, Water, Heritage and the Arts. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/9338-conservation-advice.pdf>.

Department of the Environment, Water, Heritage and the Arts (2008b). *Approved Conservation Advice for Baloghia marmorata (Marbled Baloghia)*. Canberra: Department of the Environment, Water, Heritage and the Arts. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/8463-conservation-advice.pdf>.

Office of Environment and Heritage (2012). *National Recovery Plan for Eastern Bristlebird Dasyornis brachypterus*. Office of Environment and Heritage, Department of Premier and Cabinet (NSW), Sydney. Available from: <http://www.environment.gov.au/resource/national-recovery-plan-eastern-bristlebird-dasyornis-brachypterus>

Office of Environment and Heritage (2018). Crystal Creek Walnut – profile. NSW Government. Available from: <http://www.environment.nsw.gov.au/threatenedSpeciesApp/profile.aspx?id=10269>

Threatened Species Scientific Committee (2015). *Conservation Advice Pachyptila turtur subantarctica fairy prion (southern)*. Canberra:

Department of the Environment. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/64445-conservation-advice-01102015.pdf>.

Threatened Species Scientific Committee (2016a). *Conservation Advice Lathamus discolor swift parrot*. Canberra: Department of the Environment. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/744-conservation-advice-05052016.pdf>.

Threatened Species Scientific Committee (2016b). *Conservation Advice Limosa lapponica baueri Bar-tailed godwit (western Alaskan)*. Canberra: Department of the Environment. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/86380-conservation-advice-05052016.pdf>.

Threatened Species Scientific Committee (2016c). *Conservation Advice Limosa lapponica menzbieri Bar-tailed godwit (northern Siberian)*. Canberra: Department of the Environment. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/86432-conservation-advice-05052016.pdf>

Threatened Species Scientific Committee (2017). *Conservation Advice Argynnis hyperbius inconstans Australian fritillary*. Canberra: Department of the Environment and Energy. Available from: <http://www.environment.gov.au/biodiversity/threatened/species/pubs/88056-conservation-advice-15082017.pdf>

Annex C

Wildlife Online Search

CURRENT TITLE SEARCH

NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 28303800

Search Date: 29/03/2018 09:56

Title Reference: 50489123

Date Created: 13/04/2004

Previous Title: 50489109

REGISTERED OWNER

Dealing No: 707630801 08/04/2004

AUSTRALIAN COMMUNICATIONS AUTHORITY

ESTATE AND LAND

Estate in Fee Simple

LOT 2 SURVEY PLAN 146445

Local Government: REDLAND

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Commonwealth by Deed of Grant No. 10028085 (POR 46)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Current Title Search **

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Requested By: External Supervisor

CURRENT TITLE SEARCH

NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 28303782
Search Date: 29/03/2018 09:55

Title Reference: 50489108
Date Created: 13/04/2004

Previous Title: 12714071

REGISTERED OWNER

Dealing No: 707635748 13/04/2004

AUSTRALIAN COMMUNICATIONS AUTHORITY

ESTATE AND LAND

Estate in Fee Simple

LOT 2 REGISTERED PLAN 14144
Local Government: REDLAND

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Commonwealth by
Deed of Grant No. 10177099 (POR 42)

ADMINISTRATIVE ADVICES - NIL
UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Current Title Search **

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Requested By: External Supervisor

CURRENT TITLE SEARCH

NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 28303739
Search Date: 29/03/2018 09:53

Title Reference: 50489107
Date Created: 13/04/2004

Previous Title: 12714071

REGISTERED OWNER

Dealing No: 707635748 13/04/2004

AUSTRALIAN COMMUNICATIONS AUTHORITY

ESTATE AND LAND

Estate in Fee Simple

LOT 1 REGISTERED PLAN 14143
Local Government: REDLAND

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Commonwealth by
Deed of Grant No. 10177099 (POR 42)

ADMINISTRATIVE ADVICES - NIL
UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Current Title Search **

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Requested By: External Supervisor

HISTORICAL TITLE SEARCH

NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 28303813

Search Date: 29/03/2018 09:56

Title Reference: 50489109

Date Created: 13/04/2004

Previous Title: 12714071

This Title Has Been Fully Cancelled.

REGISTERED OWNER

Dealing No: 707635748 13/04/2004

AUSTRALIAN COMMUNICATIONS AUTHORITY

ESTATE AND LAND

Estate in Fee Simple

LOT 2 REGISTERED PLAN 74062
Local Government: REDLAND

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. SURVEY PLAN No 707630801
subdivides the land into
LOTS 1 AND 2 ON SP146445
Lodged at 11:15 on 08/04/2004
2. Rights and interests reserved to the Commonwealth by
Deed of Grant No. 10028085 (POR 46)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

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Requested By: External Supervisor

HISTORICAL TITLE SEARCH

NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 28303753

Search Date: 29/03/2018 09:54

Title Reference: 12714071

Date Created: 06/01/1953

Previous Title: 12451043

This Title Has Been Fully Cancelled.

REGISTERED OWNER

Dealing No: 702778527 09/07/1998

AUSTRALIAN COMMUNICATIONS AUTHORITY

TRANSFER No 702778527

AUSTRALIAN COMMUNICATIONS AUTHORITY

Lodged at 16:04 on 09/07/1998

ESTATE AND LAND

Estate in Fee Simple

LOT 1 REGISTERED PLAN 14143
Local Government: REDLAND
LOT 2 REGISTERED PLAN 14144
Local Government: REDLAND
LOT 2 REGISTERED PLAN 74062
Local Government: REDLAND

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. REQUEST FOR INDEFEASIBLE TITLE No 707635748
to issue an Indefeasible Title for
LOT 1 ON REGISTERED PLAN 14143
LOT 2 ON REGISTERED PLAN 14144
LOT 2 ON REGISTERED PLAN 74062
COUNTY OF STANLEY PARISH OF CAPALABA
Lodged at 13:44 on 13/04/2004
2. Rights and interests reserved to the Commonwealth by
Deed of Grant No. 10028085 (POR 46)
Deed of Grant No. 10177099 (POR 42)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

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Requested By: External Supervisor

Certificate of Title.

Vol. 5 2714 Fol. 71



12714071

No. 546331

(C)

REFERENCE TO PREVIOUS
Vol 2451 Folio 43

QUEENSLAND



Register Book, Vol. 2714 Folio 71

P.S. No. 880

THE COMMONWEALTH OF AUSTRALIA

Pursuant to Memorandum of Request No. B102638 received the fourteenth day of May 1952 is now seized of an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon in ALL that piece of Land situated in the County of Stanley Parish of Capalaba containing One hundred and fifty four acres twenty three perches and two tenths of a perch more or less, as shown on the Plan hereon, and therein edged red, BEING Subdivisions 1 and 2 of Portion 42, and Subdivision 2 of Portion 46 on plane Cat. Nos. 14143, 14144 and 74062 deposited in the Office of the Registrar of Titles, Brisbane, which said piece of Land is part of the portions marked 42 and 46 delineated in the Public Map of the said parish deposited in the Office of the Surveyor-General of this State, originally granted by Deeds of Grant Nos. 22839 (Portion 42) and 7324 (Portion 46).

IN WITNESS WHEREOF, I have hereunto signed my name and affixed my seal, this sixth day of January One thousand nine hundred and fifty three

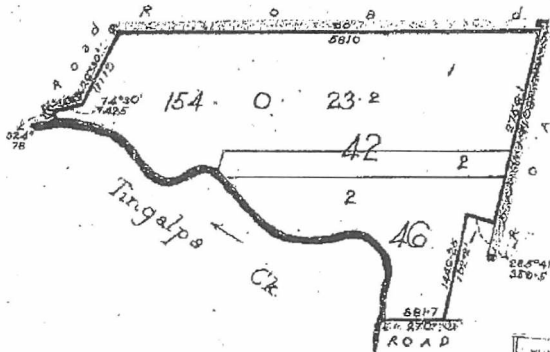
SIGNED, SEALED and DELIVERED the 6th day of January

1953 in presence of

J. Amisberg

[Signature]

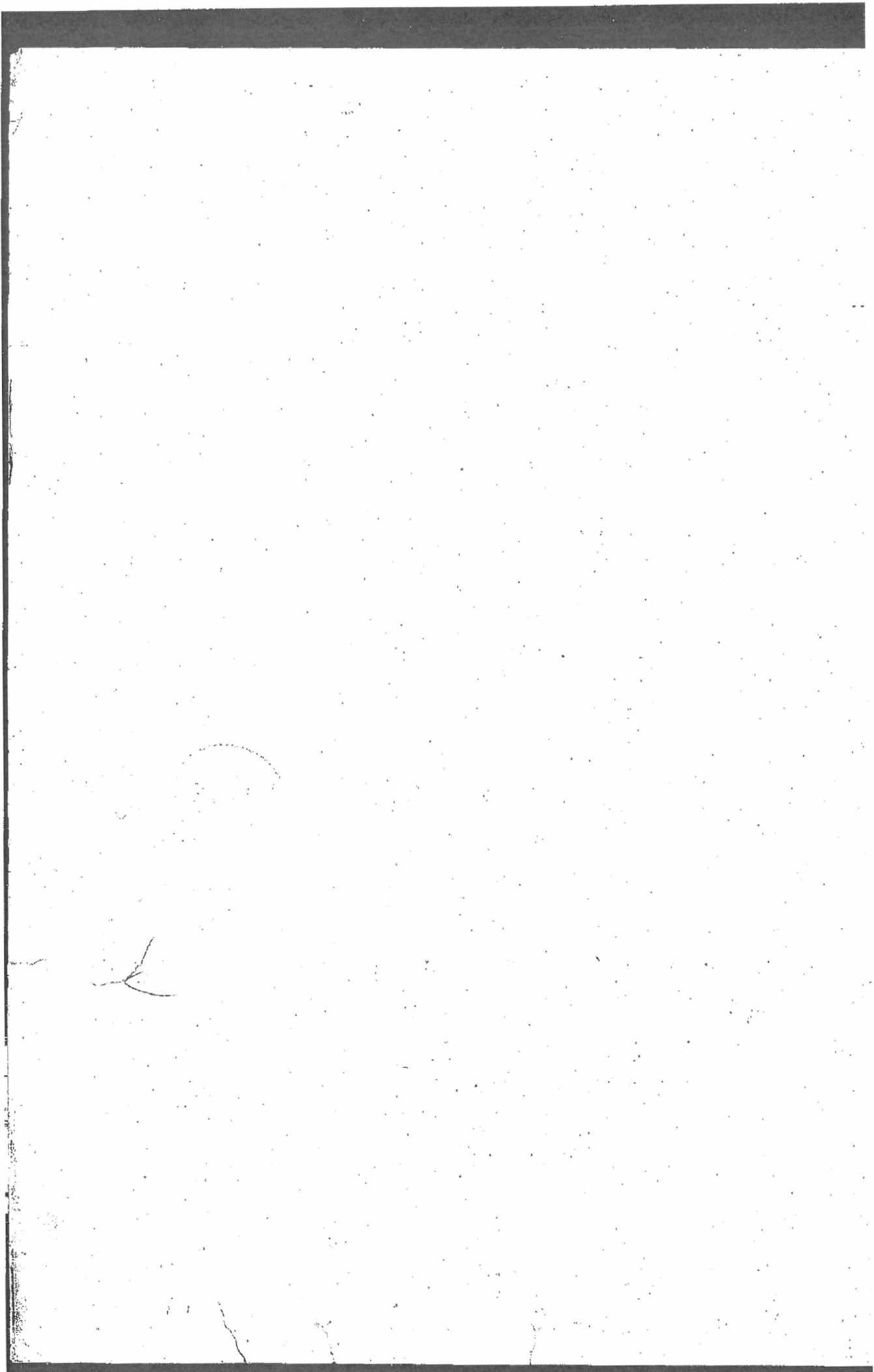
Parish of Capalaba



REGISTRAR OF TITLES.

Scale 15 chains per inch

SUB 1 OF P. 42 OF
THE DESCRIPTION OF THE WITHIN LAND IS CONVERTED
TO LOT(S) 1 ON RP 14143 AND SUB 2 OF
P. 42 TO LOT 2 ON RP 14144 AND
SUB 2 OF PORTION 46 TO LOT 2
ON REGISTERED PLAN NO. 74062.
25 AUG 1986
REGISTRAR OF TITLES



Certificate of Title.

VOL. 2451 FOL. 43



12451043

No. **483053**

QUEENSLAND.



Register Book, Vol. **2451** Folio **43**

(C)

REFERENCE TO PREVIOUS

Volume	Folio
2055	75, 77

THE COMMONWEALTH OF AUSTRALIA

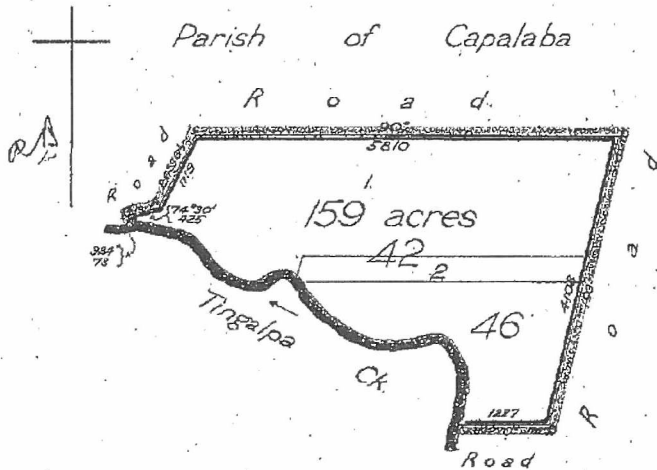
pursuant to Acquisition No. A623295 under Section 4 (3) of "The Real Property (Commonwealth Titles) Act of 1924" produced the Twenty ninth day of November 1948, registered the Ninth day of December 1948, is now seized of an Estate in Fee-simple in ALL that piece of Land situated in the County of Stanley Parish of Capalaba containing One hundred and fifty nine acres more or less, as shown on the Plan hereon, and therein edged red, Being Portion 46 and Subdivisions 1 and 2 of Portion 42 on Plans Ost. Nos. 14143 and 14144 deposited in the Office of the Registrar of Titles, Brisbane, which said piece of Land is the whole of the portions marked 42 and 46 delineated in the Public Map of the said parish deposited in the Office of the Surveyor-General of this State, originally granted by Deeds of Grant Nos. 22839 (Portion 42) and 7324 (Portion 46), the same having been acquired by the said The Commonwealth of Australia for Postal purposes at Capalaba, Queensland under the "Lands Acquisition Act, 1906-1936" by notification of Acquisition published in the Commonwealth of Australia Gazette No. 101 dated the First day of July One thousand nine hundred and forty eight.

In Witness whereof, I have hereunto signed my name and affixed my seal, this Fifth day of September One thousand nine hundred and forty nine

Signed, Sealed, and Delivered, the 5th day of September 1949, in presence of

J. M. M. M. M.
J. M. M. M. M.

REGISTRAR OF TITLES.



Scale, 15 Chains per inch.

Plan
14062
312
P46

J. M. M. M. M.
110638
81/8/49
S 2846

Apr
~~18992-2~~
~~21 Pt 6~~

No. 092362 TRANSFER of 144 8 1/2 16 1/2 pels
Sub 1 of Tax 46 to Rosemary James
Leotson Produced
29 Apr 1952 at 9:50 m., registered 4 Sep 1952
Cancelled as above vide Vol 2711 Fol. 100
Johnson
REGISTRAR OF TITLES



No. R 122638 REQUEST to Issue Certificate of Title for
152 2nd 23 3/8 pels Subs 1 and 2
of 700 1/2 and Sub 2 of 122 1/2
Produced in Aug 1952 at 9:52 m., registered 14 Sep 1952
Cancelled as above vide Vol. 2714 Fol. 71
Johnson
REGISTRAR OF TITLES



FULLY CANCELLED

Certificate of Title.

VOL. 5 2055 FOL. 75



12055075

No. 392235

No.

2055 FOLIO 75

a No. 116456

(C)

REFERENCE TO PREVIOUS

VOL. 1359 FOLIOS 144 and 145

QUEENSLAND



REGISTER BOOK, VOL. 2055 FOLIO 75

HUBERT OLIVE DANIEL

_____ pursuant to Memorandum of Conveyance No. A368220 produced the ninth day of November 1938, registered the eleventh day of November 1938 is now seized _____ of an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in all that piece of Land situated in the County of Stanley Parish of Capalaba

containing one hundred and fourteen acres

more or less, as shown on the Plan hereon, and therein edged red, Being subdivisions 1 and 2 of Portion 42 on plan Cat. No. 14143 deposited in the Office of the Registrar of Titles Brisbane

which said piece of Land is part _____ of the portion marked 42 delineated in the Public Map of the said Parish deposited in the Office of the Surveyor-General, originally granted by Deed of Grant No. 22839 to William Cardinal

Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

In WITNESS whereof, I have hereunto signed my name and affixed my seal, this eighteenth day of November One thousand nine hundred and thirty eight

Signed, sealed, and Delivered, the eighteenth day of November 1938, in presence of

Witnesses

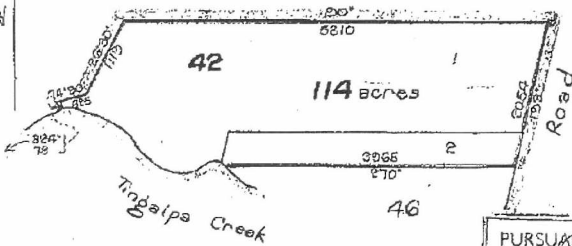
John R. M. Shie



REGISTRAR OF TITLES

Parish of Capalaba

Road



Scale, 15 chains per inch.

PURSUANT to Memo. of TRANSFER No. 2052552 produced 3 June 1944 at 2/1 registered 9 June 1944
Rosemary James Cotton
wife of Douglas Alfred Cotton
is now SEIZED of an Estate IN FEE SIMPLE in the WHOLE of the within Land

John R. M. Shie



REGISTRAR OF TITLES

No. ~~1644298~~ BILL OF MORTGAGE produced 12 Mar
 at 12.40 p.m., registered 13 May 1946
 from Rossby & Sons Pty Ltd
 to The Bank of Australasia
 to secure the payment of the moneys and interest thereon referred to.
 [Signature]
 REGISTRAR OF TITLES

Edge
~~1644298~~
 Notice of acquisition
 vide 45/6116
 Land to
 acq
 [Signature]
 note

No. ~~1644298~~ PURSUANT to the provisions of the
 Lands Acquisition Act 1906 and "The Real Property
 (Commonwealth Titles) Act of 1924," the within land
 is now vested in "The Commonwealth of Australia,"
 as appears by documentary evidence produced
29 Nov 1948 at 10.0 a.m.
 registered 1 Dec 1948
 cancelled in full
 [Signature]
 REGISTRAR OF TITLES

FULLY CANCELLED

Certificate of Title.

VOL. 5 2055 FOL. 77



12055077

QUEENSLAND.

No. **392237**

(C)

REFERENCE TO PREVIOUS

Vol. 1359 FOLIO s 142 and 143



REGISTER BOOK, Vol. **2055** FOLIO **77**

a No. **16458**

HUBERT CLIVE DANIEL

of _____ pursuant to Memorandum of Conveyance No. 4388220 produced the ninth day of November 1938, registered the eleventh day of November 1938 is now seized of an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in all that piece of Land situated in the County of Stanley Parish of Capalaba

containing fortyfive acres

more or less, as shown on the Plan hereon, and therein edged red, Being Portion 46

which said piece of Land is the whole of the portion marked 46 delineated in the Public Map of the said parish deposited in the Office of the Surveyor-General, originally granted by Deed of Grant No. 7224 to James Willard and Mark Blundell

Having Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

In WITNESS whereof, I have hereunto signed my name and affixed my seal, this eighteenth day of November One thousand nine hundred and thirty eight

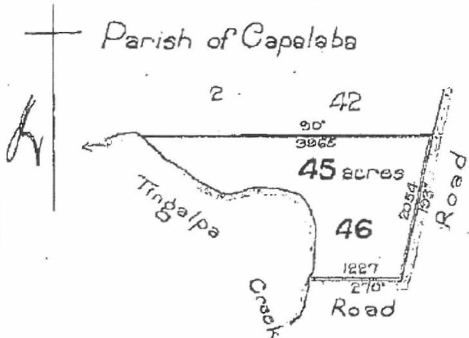
Signed, Sealed, and Delivered, the eighteenth day of November 1938, in presence of

W. H. Manly

John R. W. Shie



REGISTRAR OF TITLES





PURSUANT to Memo. of TRANSFER No. 248258 produced 3 June 1941 by James Cotton wife of Douglas Alfred Cotton is now SEIZED of an Estate IN FEE SIMPLE in the WHOLE of the within Land

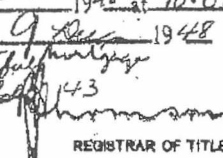

John R. W. Shie

REGISTRAR OF TITLES

Scale, 15 chains per inch.

No. 164298 BILL OF MORTGAGE produced 12 Mar
 1946 at 12.40 m. registered 13/ May 1946
 from Robertson, Bruce Gordon to
James M. ...
 The Real Property Australasia
 to secure the payment of the moneys and interest therein referred to


 REGISTRAR OF TITLES

Notice of Acquisition
 via
 15/6/1946
 Results
 acc.
 15/6/1946

No. 1822225 PURSUANT to the provisions of the
 Lands Acquisition Act 1906, and "The Real Property
 (Commonwealth Titles) Act of 1924," the within land
 is now vested in "The Commonwealth of Australia,"
 as appears by documentary evidence produced
29 Nov 1948 at 10.0 m.
 registered 9 Dec 1948
 Cancelled in full
 this 10/1/43


 REGISTRAR OF TITLES
 QUEENSLAND

FULLY CANCELLED

Certificate of Title.

VOL. 5 1359 PDL 142



11359142

QUEENSLAND.

No. 237152

REFERENCE TO PREVIOUS

Vol. 98 Folio 59



REGISTER BOOK, VOL. 1359 FOLIO 142

WILLIAM WILLARD

Transmission

of Birkdale near Brisbane pursuant to Memorandum
 by Death of Deavey No. 673786 produced the twenty seventh day of September 1916,
 registered the twenty second day of November 1916, is now seized of an Estate in Fee-simple, as tenant
 in common with another in one undivided half part or
 share, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in that piece
 of Land situated in the County of Stanley Parish of Capalaba
 containing forty five acres
 more or less, as shown on the Plan hereon, and therein edged red, Being portion forty six.

which said piece of Land is the whole of the portion marked 46 delineated in the Public Map
 of the said parish deposited in the Office of the Surveyor-General, originally granted by Deed of Grant
 No. 7324 to James Willard and Mark Blundell

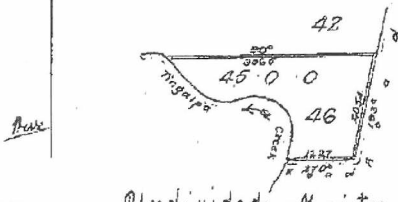
Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

IN WITNESS whereof, I have hereunto signed my name and affixed my seal this Twenty eighth
 day of November One thousand nine hundred and sixteen

Signed, Sealed, and Delivered, the 28
 day of November 1916, in presence of
Smith & Mitchell
 Parish of Capalaba



REGISTRAR OF TITLES.



Undivided tenancy

No. 821529 TRANSMISSION BY DEATH in consequence of the
 death of the above-named William Willard
 on the 19 July 1923, an estate in fee-simple, in the within
 land became transmitted to James Willard
 by his devise

by Probate Copy of Will and documentary
 evidence. Produced 8 Nov 1923 at 3.24 p.m.
 Entered 15 Feb 1924

Boyd
 REGISTRAR OF TITLES.

REGISTRAR OF TITLES.

No. A17615 LEASE produced 20 Oct 1927
 and registered 20 Oct 1927 from
James Willard and James
Willard
 Term years from 1 Oct 1927
 Rent per annum payable quarterly in advance

No. A175443 OF LEASE produced 2-25
 at 2-25

Boyd
 REGISTRAR OF TITLES.

No. A176442 TRANSFER OF LEASE No. A34615
 Produced 5 July 1923 at 2.55 p.m. Registered 26 July
 1923 from Richard Charles Brown
 to Victor Brown and John Brown

Boyd
 REGISTRAR OF TITLES.

TD.
88 75 37
Surflee
A175443
Lease
A175444
7-7-32

Scale, 20 chains per inch.

No. 1176444 LEASE of 5 July 1932
 at 2.35 p.m. of 26 July 1932
Margaret Hill of 26 July
William Pittman and John Fitzpatrick
 of 26 July
 as there stated of 100 monthly in advance
 produced 12 May
 7-11
 REGISTRAR OF TITLES
 QUEENSLAND

Surplus
~~AT 11/7/41~~
J.R. Brown

No. 738229 TRANSFER of the whole of the land to
Robert Elton Davis
 Produced 11 Nov 1938
9 Nov 1938 at 17 p.m. of 11 Nov 1938
 Cancelled in full vide Vol. 2055 of 11
John R. W. Smith
 REGISTRAR OF TITLES
 QUEENSLAND

FULLY CANCELLED

Certificate of Title.

VOL. 5 1359 FOL. 143



11359143

QUEENSLAND.

No. 237153



REGISTER BOOK, Vol. 1359 FOLIO 143

REFERENCE TO PREVIOUS

VOL. 96 FOLIO 59

MARGARET WILLARD

transmission

of Birkdale near Brisbane Spinster pursuant to Memorandum
 by Death of Conveyance No. 673786 produced the twenty seventh day of September 1916,
 registered the twenty second day of November 1916, is now seized of an Estate in Fee-simple, as tenant
 in common with another in one undivided half part or
 share, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in all that piece
 of Land situated in the County of Stanley Parish of Capalaba
 containing forty five acres
 more or less, as shown on the Plan hereon, and therein edged red, Being portion forty six

which said piece of Land is the whole of the portion marked 46 delineated in the Public Map
 of the said parish deposited in the Office of the Surveyor-General, originally granted by Deed of Grant
 No. 7324 to James Willard and Mark Blundell.

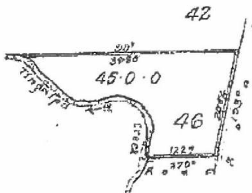
Saving Rights to the Crown all the rights and interests reserved to it by the said Deed of Grant.

IN WITNESS whereof, I have hereunto signed my name and affixed my seal this Twenty seventh
 day of November One thousand nine hundred and sixteen

Signed, Sealed, and Delivered, the 28
 day of November 1916, in presence of

Parish of Capalaba

M. Blundell



REGISTRAR OF TITLES

No. A175442 TRANSFER OF LEASE No. A34615
 Produced 26 July 1932
 1932 from Thomas Richard Charles Brown
 to Victor Bingham and John Bingham

Broasfield

Surplus A175442

No. A174615 LEASE produced 20 Oct 1927
 registered 12 Oct 1927 from
Richard Charles Brown and James
Richard Charles Brown
 term 99 years from 1 Oct 1927
 Rent £200 per annum payable quarterly in advance

Richard Charles Brown

No. A175444 LEASE produced 26 July 1932
 registered 26 July 1932 from
Margaret Willard
William Blundell and Mark Blundell
 term 99 years from July 1932
 Rent £200 per annum payable quarterly in advance


Blundell

See A175444 7-7-32 Surplus

Scale, 20 chains per inch.

NS 288220 TRANSFER of the whole of the land to
Hubert Elvire Darial
Produced
9 Nov 1928 at 17 pm registered 11 Nov 1928
Cancelled in full vide Vol. 3055, Fol. 77

John H. W. S. Hie
REGISTRAR OF TITLES



H.
~~*Asst*~~

FULLY CANCELLED



(C)

QUEENSLAND

[CERTIFICATE OF TITLE.

Deed of grant 7324
No. of previous Certificate of Title _____
COUNTY: Stanley
PARISH: Capatuba
AREA: 45 h. a. p.



No. 19 039

Register Book Vol. XCVI Folio 59

VOL. 88 FOLIO 059



10096059

Pursuant to Memorandum of Conveyance No. 11056 dated August 1866
day of August A.D. 1866, Signed, sealed, and delivered by James Willard
James Willard of the one part, and

James Willard of the other part
James Willard of Brisbane is

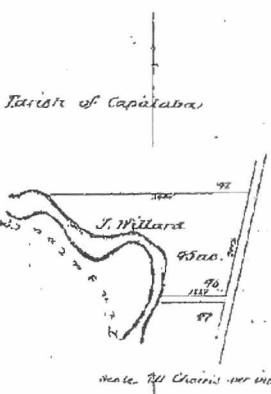
now seized _____ for an Estate in Fee Simple, subject nevertheless to such encumbrances, liens, and interests, as are by memorandum notified hereon, of all that piece of Land containing by admeasurement forty five acres in the Stanleyparish or less situated in the County of Stanley parish of Capatuba Parish North Queensland containing one hundred and thirty one acres or thereabouts more or less bounded on the north by a line dividing it into two halves being East thirty seven degrees and six to seven minutes to a road two acres and fifty paces wide on the West by that road at an angle with the East line of 177 degrees bearing north seventy seven degrees and fifty four minutes to a road two acres wide on the South by that road East twenty one degrees with the East line of 103 degrees bearing east twelve degrees and thirty seven minutes to the Capatuba road and to the West by that road admeasurement to the point of Commencement of the land sold of 17 August 1863 as per Vol. 88 Folio 059 of the Memorandum of 14th April 1866 which said lot 9th also delineated on a Plan No. 10 in the Public Office of the Parish of Capatuba deposited in the office of the Surveyor General originally granted to James Willard and Mark Willard as tenants in common by deed of grant under the seal of the Colony of Queensland signed by Sir George Ferguson Bowen on the 14th of November 1864 and the office of the Registrar General at Brisbane No. 7324 Vol. 10 Folio 59 dated 31st December 1865.

Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

In Witness whereof, I have hereunto signed my name and affixed my seal this fourteenth day of August One thousand eight hundred and sixty six

Signed, sealed, and delivered, the fourteenth day of August 1866, in presence of Mark Willard

M. W. M.
REGISTRAR GENERAL



Bill of Mortgage of 1864 dated 10th of August 1864
numbered 13th of August 1864 at 10th of August 1864
January 1864 from the above said James Willard
to John Blair, James Blair, and George
Edmondstone Trustees of the Queensland Building
Society pursuant to a mortgage of 10th of August 1864
both ends of the said bill being secured at the rate of
£100 per annum for interest payable on the
annual amount of every 100th part

Stephen General

Bill of Mortgage No. 14257
 made 18/6 at 12:30 pm 1878 from
 Emma Willard, widow of
 principal party, to the
 Repayable 12/31/82 at the rate of
 \$15 per centum per annum

No. 50428 Nomination of Trustees produced 8th
 January 1878 at 11:18 am reg. 2^o January 1878 from
 William, Rev. Stenick to Nancy Swannom, executor
 and John Benedict trustee as trustees for the purpose
 herein mentioned

291402
 Sep. Aug. 1878 17/9/95

NEW TITLE No. 82,996

PURSUANT TO MEMO OF TRANSFER No. 291402 produced
 16th Sep. 1878 at 12:30 pm 1878

Margaret Willard wife of James
 Willard
 OF THE COUNTY OF ... MARRIAGE SETTLED OF AN ESTATE IN FEE
 SIMPLE in the WHOLE of the within land.

Witness:
 R. Mills

Notary Public
 Seal of the State of New York

1/10
 613786

No. 57373 TRANSMISSION BY DEATH. In consequence of the death
 of the above named Margaret Willard
 on the 13 June 1876 an estate in fee simple in the within
 land bequeathed to William Willard and
 Margaret Willard Spinetta
 as devisees as tenants in common
 by Probate Copy of Will and documentary evidence
 Produced 27 Sep 1876 at 2:50 pm. Entered 27 Nov 1876

Cancelled
 J. W. Massey
 Secy. of State
 Dep. Registrar of Titles

FULLY CANCELLED

FULLY CANCELLED

b No. 674

Certificate of Title.

VOL. 5 1359 FOLIO 144



11359144

QUEENSLAND

No. 237154



REFERENCE TO PREVIOUS

Vol. 276 FOLIO 247
202 156

REGISTER BOOK, VOL. 1359 FOLIO 144

WILLIAM WILLARD

Transmission

of Birkdale near Brisbane pursuant to Memorandum
by Death of Surveyor No. 673786 produced the twenty seventh day of September 1916,
registered the twenty second day of November 1916, is now seized of an Estate in Fee-simple, as tenant
in common with another in one undivided half part or
share, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in all that piece
of Land situated in the County of Stanley Parish of Capalaba
containing one hundred and fourteen acres
more or less, as shown on the Plan hereon, and therein edged red, Being subdivisions one and two of portion
forty two on a plan Cat. No. Q27 - 19 deposited in the Office of the Registrar of Titles Brisbane

which said piece of Land is the whole of the portion marked 42 delineated in the Public Map
of the said parish deposited in the Office of the Surveyor-General, originally granted by Deed of Grant
No. 22829 to William Cardinal

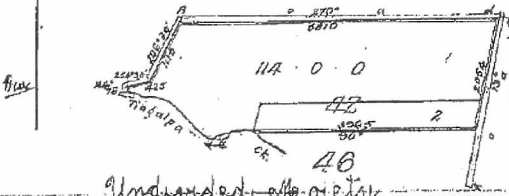
Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

IN WITNESS whereof, I have hereunto signed my name and affixed my seal this Twenty eighth
day of November One thousand nine hundred and nineteen

Signed, Sealed, and Delivered, the 28
day of November 1916, in presence of

Parish of Capalaba

J. Mitchell



REGISTRAR OF TITLES

No. 1175443 LEASE produced 26 July 1927
also registered 26 July 1927
Thomas Richard Charles Brown
to Victor King and John Jones

Term 99 years from 26 July 1927
Rent £100 per year payable quarterly in advance

Produced 5

REGISTRAR OF TITLES

TD 884589
Surfice 11/25/43

No. 237154 TRANSMISSION BY DEATH In consequence of the
death of the above-named William Willard
on the 19 July 1928 an estate in fee simple, in the within
land became transmitted to James Willard
as devisee
by Probate Copy of Will 3.10.28 and documentary
evidence. Produced 3.10.28 3.34 p.m.
Entered 12 Feb 1924

J. Bragg
REGISTRAR OF TITLES

No. 1175443 LEASE produced 26 July 1927
also registered 26 July 1927
Thomas Richard Charles Brown
to Victor King and John Jones

Produced 5

REGISTRAR OF TITLES

Lee 11/25/44
7-7-32

Scale, 20 chains per inch.

No. AL75444 LEASE
 at 2.25 per acre
 for 5 years
 beginning 26 July 1932
 between James W. Willard
 and John F. Patrick
 Terms: monthly in advance
 Payment: made
 Produced 12/11/32
 at 3-11
 REGISTRAR OF TITLES

Produced
12/11/32
at 3-11

Star
12/11/32
at 3-11

No. 138822 TRANSFER of the whole of the land to
Richard Olive Daniel
 Produced
9 Nov 1928 at 1.75 per acre registered 11 Nov 1928
 Cancelled in full vide Vol. 2058 fol. 75
John R. W. Stee
 REGISTRAR OF TITLES

FULLY CANCELLED

b No. 424

QUEENSLAND SAFETY

Certificate of Title.

VOL. 5 1359 FOLIO 145



11358145

QUEENSLAND.

No. 237155

REFERENCE TO PREVIOUS



Vol. 276 Folio 247
202 156

REGISTER BOOK, VOL. 1859 FOLIO 145

MARGARET WILLARD

Transmission

of Birkdale near Brisbane Spinster pursuant to Memorandum by Death of Conveyance No. 673786 produced the twenty seventh day of September 1916, registered the twenty second day of November 1916, is now seized of an Estate in Fee-simple, as tenant in common with another in one undivided half part or share, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in all that piece of Land situated in the County of Stanley Parish of Capalaba containing one hundred and fourteen acres more or less, as shown on the Plan hereon, and therein edged red, Being subdivisions one and two of portion forty two on a plan Cat. No. 927-19 deposited in the office of the Registrar of Titles Brisbane which said piece of Land is the whole of the portion marked 42 delineated in the Public Map of the said parish deposited in the Office of the Surveyor-General, originally granted by Deed of Grant No. 28639 to William Cardinal

Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

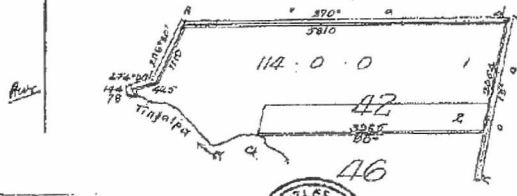
In WITNESS whereof, I have hereunto signed my name and affixed my seal this Twenty eighth day of November One thousand nine hundred and sixteen

Signed, Sealed, and Delivered, the 28 day of November 1916, in presence of

Parish of Capalaba Smith & Mitchell



REGISTRAR OF TITLES.



No. A175442 TRANSFER OF LEASE No. A34615
Produced 5 July 1932 Registered 20 July 1932
from Charles Richard Charles Brown
to Victor Egan and John Smith

Thompson

Surfhor
A175442

No. A174616 LEASE produced 22 1922
at 11/11/22 registered 11/11/22 from
Imperial Oil Ltd
Wills

No. A175443 LEASE produced 5 1932
at 2/3/32 registered 2/3/32 from
Imperial Oil Ltd
Remainder of 1/2 payable quarterly

No. A175444 LEASE produced 5 July 1932
at 5/7/32 registered 5/7/32 from
Imperial Oil Ltd
Total 1/2 payable quarterly
Residual 1/2 payable quarterly

Thompson

Lee
A175444
7-7-32
Surfhor
A175444

Scale, 40 chains per inch.

138222 TRANSFER of the whole of the land to:
Hubert Olive Daniel
Produced
9 Nov 1938 at 17 PM registered 11 Nov 1938
Cancelled in full vide Vol. 2055, Fol. 76
John W. S. S. S.
REGISTRAR OF TITLES

TH
138222

FULLY CANCELLED

VOL. 5 276 FOL. 247



10278247

(C)

QUEENSLAND

No. 40990

No. of Previous

Deed of grant 22839



Register Book Vol.

276

Folio 247

CERTIFICATE OF TITLE.

FULLY CANCELLED

James Willard

of

pursuant to Memorandum of Conveyance No. 42192 registered the 14th day of July A.D. 1876, is now seized of an Estate in Fee Simple, subject nevertheless to such encumbrances, liens, and interests, as are by memorandum notified hereon, in III that piece of Land situated in the County of Stanley, Parish of Capataba

containing by admeasurement more or less commencing at the North-west corner of subdivision 125 and commencing there as part of the boundary of the said subdivision 125 and commencing there as part of the boundary of the said subdivision 125 and commencing there as part of the boundary of the said subdivision 125

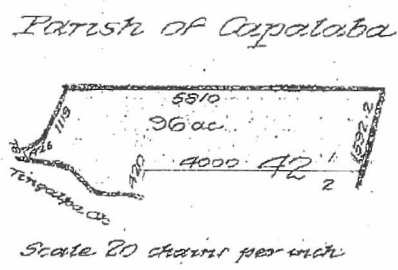
more or less commencing at the North-west corner of subdivision 125 and commencing there as part of the boundary of the said subdivision 125 and commencing there as part of the boundary of the said subdivision 125 and commencing there as part of the boundary of the said subdivision 125

which said piece of land is part of the portion marked 42 delineated in the Public Map of the said parish deposited in the Office of the Surveyor-General, originally granted the 14th day of September 1871 by Deed of Grant, No. 22839 under the Seal of the Colony of Queensland and the Hand of George Ferguson Esquire Governor of the said Colony, to William Gordon

Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant. IN WITNESS whereof, I have hereunto signed my name and affixed my seal this 14th day of July One thousand eight hundred and seventy six

Signature, sealed, and delivered, the 14th day of July 1876, in presence of

Signature of Registrar General



Do NOTICE Bill of Mortgage produced 18 Jan 1892 at 10.53 a.m. registered 19 Jan 1892 from James Willard to James Willard principal amount secured two hundred and fifty pounds sterling interest at the rate of five per centum per annum payable quarterly

No 575202 TRANSMISSION BY DEATH.

In consequence of the death of John Bowman
on the 24 day of Jan 1908
his interest in Bill of Mortgage
No. 266051 became transmitted to John Bowman
John Bowman John Bowman and Reverend
William Bowman, as Beneficiaries
as appears by documentary evidence, produced 24
day of Jan 1908 at 2:30 pm - entered - 3 day of
Feb 1908

R. H. Hill
Dep. Registrar of Titles.

770 63108

No 291198 TRANSMISSION BY DEATH. In consequence of the death

of the above named James Willard
on the 2 day of Oct 1911 an estate in fee simple
in the within land became transmitted to
Margaret Willard widow
as appears by Will
and documentary evidence, Produced R. S. Hill
1911 at 9:10 am entered 13 Jan 1912

R. H. Hill
Dep. Registrar of Titles.

770 67398
673986

No 67376 TRANSMISSION BY DEATH. In consequence of the death

of the above named Margaret Willard
on the 10 day of June 1916 an estate in fee simple in the within
land became transmitted to William Willard and
Margaret Willard Spinster
as appears by Probate copy of Will and documentary evidence
Produced 27 Sep 1916 at 4:30 pm - Entered 26 Nov 1916

V. L. Massey
Dep. Registrar of Titles.

FULLY CANCELLED

No. 1122 TRANSMISSION BY DEATH.
 In consequence of the death of John Cassano
 on the 21 day of
 May 1911 interest in Bill of Mortgage
 No. 11021 became transmitted to John Cassano
 Cassano, Heir at Law of Cassano and Sister
 Helen Cassano as Executors
 as appears by documentary evidence, produced 247
 day of June 1911 at 2.55 p.m. Entered 27 day of
 July 1911
 Dep. Registrar of Titles.

1106-2118

No. 1122 TRANSMISSION BY DEATH. In consequence of the death
 of the above named James Willard
 on the 2 Oct. 1911 an estate in fee simple
 in the within land became transmitted to
 Margaret Willard - widow
 as appears by Will
 and documentary evidence, Produced 25 June
 1911 at 2.55 p.m. Entered 27 July 1911
 Dep. Registrar of Titles.

1106-2118

No. 1122 TRANSMISSION BY DEATH. In consequence of the death
 of the above named Margaret Willard
 on the 15 June 1912 an estate in fee simple in the within
 land became transmitted to William Willard and
 Margaret Willard Spinster
 as appears by Probate Copy of Will and documentary evidence
 Produced 27 July 1912 at 2.55 p.m. Entered 22 Nov
 1912
 Canceled in full view
 Vol 1359 folio 144/2
 Dep. Registrar of Titles.

FULLY CANCELLED



BORE REPORT

REG NUMBER 79640

REGISTRATION DETAILS

OFFICE Brisbane	BASIN 1450	LATITUDE 27-30-56	MAP-SCALE 253
DATE LOG RECD	SUB-AREA	LONGITUDE 153-12-17	MAP-SERIES M
D/O FILE NO. 84825	SHIRE 6250-REDLAND	EASTING 520218	MAP-NO 9542-41
R/O FILE NO.	LOT 7	NORTHING 6956443	MAP NAME
H/O FILE NO.	PLAN RP192720	ZONE 56	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY INSP	PRES EQUIPMENT SP
		GPS ACC	
GIS LAT -27.51563616	PARISH NAME 947-CAPALABA		ORIGINAL BORE NO
GIS LNG 153.2046804	COUNTY STANLEY		BORE LINE -
CHECKED Y			
			POLYGON
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 01/01/1991		RN OF BORE REPLACED
STATUS Existing	DRILLERS NAME		DATA OWNER
ROLES WS	DRILL COMPANY		
	METHOD OF CONST. ROTARY		

CASING DETAILS

**** NO RECORDS FOUND ****

STRATA LOG DETAILS

**** NO RECORDS FOUND ****

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

AQUIFER DETAILS

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE REPORT

REG NUMBER 79640

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART1

PIPE E	DATE	RD ANALYST	QAN	DEPT H (m)	RMK	SRC	COND (uS/cm)	pH	Si (mg/L)	TOTAL IONS (mg/L)	TOTAL SOLIDS (mg/L)	HARD	ALK	FIG. OF MERIT	SAR	RAH
A	10/01/1992	1 DPI	37	27.00		GB	200	5.5		119.50	107.30	41	20	0.9	1.4	

WATER ANALYSIS PART 2

PIPE	DATE	RD	Na	K	Ca	Mg	Mn	HCO3	Fe	CO3	Cl	F	NO3	SO4	Zn	Al	B	Cu
A	10/01/1992	1	21.0	5.5	8.0	5.0		24.0			46.0			10.0				

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

BORE REPORT

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**** End of Report. Produced: 29/03/2018 09:51:57 AM ****

BORE REPORT

REG NUMBER 145683

REGISTRATION DETAILS

OFFICE Brisbane	BASIN 1450	LATITUDE 27-31-03	MAP-SCALE
DATE LOG RECD 05-MAR-08	SUB-AREA	LONGITUDE 153-12-14	MAP-SERIES
D/O FILE NO.	SHIRE 6250-REDLAND	EASTING 520148	MAP-NO
R/O FILE NO.	LOT 10	NORTHING 6956234	MAP NAME
H/O FILE NO.	PLAN RP124205	ZONE 56	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY	PRES EQUIPMENT
		GPS ACC	
GIS LAT -27.5174468	PARISH NAME 947-CAPALABA		ORIGINAL BORE NO
GIS LNG 153.2040194	COUNTY STANLEY		BORE LINE -
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 19/02/2008		DATA OWNER
STATUS Existing	DRILLERS NAME MATHAMS, STEVEN ROBERT		
ROLES WS	DRILL COMPANY DRILLPOWER		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM (mm)	TOP (m)	BOTTOM (m)
A	19/02/2008	1	Polyvinyl Chloride	5.900	WT	140	0.00	51.00
A	19/02/2008	2	Grout				0.00	5.00
A	19/02/2008	3	Gravel Pack	5.000	GR		5.00	51.00
A	19/02/2008	4	Perforated or Slotted Casing	2.000	AP		33.00	39.00
A	19/02/2008	5	Perforated or Slotted Casing	2.000	AP		45.00	51.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	6.00	CLAY, RED-YELLOW
2	6.00	18.00	SANDSTONE, YELLOW, DECO
3	18.00	32.00	SANDSTONE, GREY
4	32.00	36.00	SANDSTONE, QUARTZ, CLEAN

BORE REPORT

REG NUMBER 145683

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
5	36.00	45.00	SANDSTONE, WHITE
6	45.00	51.00	MUDROCK, GREY

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

AQUIFER DETAILS

REC	TOP BED(M)	BOTTOM BED(M)	BED LITHOLOGY	DATE	SWL (m)	FLOW	QUALITY	YIELD (l/s)	CTR	CONDIT	FORMATION NAME
1	32.00		SDST	19/02/2008	-21.00	N	150PPM SALT	0.13	N	PS	

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

BORE REPORT

REG NUMBER 145683

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

BORE REPORT

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BORE REPORT

REG NUMBER 133707

REGISTRATION DETAILS

OFFICE Brisbane	BASIN 1450	LATITUDE 27-30-37	MAP-SCALE
DATE LOG RECD 13-MAR-06	SUB-AREA	LONGITUDE 153-12-34	MAP-SERIES
D/O FILE NO.	SHIRE 6250-REDLAND	EASTING 520688	MAP-NO
R/O FILE NO.	LOT 3	NORTHING 6957020	MAP NAME
H/O FILE NO.	PLAN RP843977	ZONE 56	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY GPS	PRES EQUIPMENT
		GPS ACC 10	
GIS LAT -27.5103452	PARISH NAME 947-CAPALABA		ORIGINAL BORE NO
GIS LNG 153.2094719	COUNTY STANLEY		BORE LINE -
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 26/01/2006		DATA OWNER
STATUS Existing	DRILLERS NAME SCHUMACHER, EVAN LYALL		
ROLES WS	DRILL COMPANY DRILLPOWER		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM (mm)	TOP (m)	BOTTOM (m)
A	26/01/2006	1	Polyvinyl Chloride	9.000	WT	140	0.00	36.00
A	26/01/2006	2	Perforated or Slotted Casing	4.000	AP		30.00	36.00
A	26/01/2006	3	Gravel Pack	5.000	GR		7.00	36.00
A	26/01/2006	4	Cuttings or other fill between casing and ho				5.00	7.00
A	26/01/2006	5	Grout			200	0.00	5.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	1.00	TOPSOIL
2	1.00	8.00	CLAY
3	8.00	27.00	SANDSTONE
4	27.00	31.00	CLAY

BORE REPORT

REG NUMBER 133707

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
5	31.00	36.00	SANDSTONE *

STRATIGRAPHY DETAILS
 **** NO RECORDS FOUND ****

AQUIFER DETAILS

REC	TOP BED(M)	BOTTOM BED(M)	BED LITHOLOGY	DATE	SWL (m)	FLOW	QUALITY	YIELD (l/s)	CTR	CONDIT	FORMATION NAME
1	32.00		SDST	26/01/2006	0.00	N		1.52	Y	PS	WOOGAROO SUBGROUP

PUMP TEST DETAILS PART 1

PIPE	DATE	REC RN OF NO. PUMP-BORE	TOP (m)	BOTTOM (m)	DIST (m)	METH	TEST TYPES	PUMP TYPE	SUCTION SET (m)	Q PRIOR TO TEST (l/s)	DUR OF Q PR (min)	PRES ON ARRIV (m)	Q ON ARRIV (l/s)
A	26/01/2006	1 133907					PUM	AIR					

PUMP TEST DETAILS PART 2

PIPE	DATE	REC	TEST DUR (mins)	SWL (m)	RECOV. TIME (mins)	RESID. DD (m)	MAX DD or P RED (m)	Q at MAX DD (l/s)	TIME TO MAX DD (mins)	Max Q (l/s)	CALC STAT HD (m)	DESIGN YIELD (l/s)	DESIGN BP (m)	SUCT. SET (m)	TMSY (m2/DAY)	STOR
A	26/01/2006	1	60	0.00								1.52				

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

BORE REPORT

REG NUMBER 133707

WATER LEVEL DETAILS
**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS
**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

PIPE	DATE	DEPTH (m)	COND (uS/cm)	pH	TEMP (C)	NO3 (mg/L)	DO (mg/L)	Eh (mV)	ALK (mEq)	METH	SOURCE
A	26/01/2006		130							PU	GB

SPECIAL WATER ANALYSIS
**** NO RECORDS FOUND ****

BORE REPORT

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BORE REPORT

REG NUMBER 145270

REGISTRATION DETAILS

OFFICE Brisbane	BASIN 1450	LATITUDE 27-30-07	MAP-SCALE
DATE LOG RECD 28-MAY-07	SUB-AREA	LONGITUDE 153-12-12	MAP-SERIES
D/O FILE NO.	SHIRE 6250-REDLAND	EASTING 520083	MAP-NO
R/O FILE NO.	LOT 2	NORTHING 6957953	MAP NAME
H/O FILE NO.	PLAN RP89797	ZONE 56	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY	PRES EQUIPMENT
		GPS ACC	
GIS LAT -27.5019295	PARISH NAME 947-CAPALABA		ORIGINAL BORE NO
GIS LNG 153.2033289	COUNTY STANLEY		BORE LINE
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 15/03/2007		DATA OWNER
STATUS Existing	DRILLERS NAME PATRICK COOPER		
ROLES WS	DRILL COMPANY BUSHMENS DRILLING		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM (mm)	TOP (m)	BOTTOM (m)
A	15/03/2007	1	Polyvinyl Chloride	5.900	WT	140	0.00	20.60
A	15/03/2007	2	Grout				0.00	5.00
A	15/03/2007	3	Cuttings or other fill between casing and hc				5.00	12.00
A	15/03/2007	4	Grout				12.00	13.00
A	15/03/2007	5	Gravel Pack	4.000	GR		13.00	20.60
A	15/03/2007	6	Perforated or Slotted Casing	3.000	AP		14.00	20.60

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	1.00	CLAY, BROWN
2	1.00	5.00	CLAY, YELLOW
3	5.00	15.10	DECO ROCK

BORE REPORT

REG NUMBER 145270

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
4	15.10	20.60	BLACK SOFT ROCK

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

AQUIFER DETAILS

REC	TOP BED(M)	BOTTOM BED(M)	BED LITHOLOGY	DATE	SWL (m)	FLOW	QUALITY	YIELD (l/s)	CTR	CONDIT	FORMATION NAME
1	15.10		XXXX	15/03/2007	-13.00	N	POTABLE	0.12	N	XX	
2	18.10		XXXX	15/03/2007	-14.00	N	POTABLE	0.30	N	XX	

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

**** NO RECORDS FOUND ****

WIRE LINE LOG DETAILS

BORE REPORT

REG NUMBER 145270

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

BORE REPORT

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BORE REPORT

REG NUMBER 138666

REGISTRATION DETAILS

OFFICE Brisbane	BASIN 1450	LATITUDE 27-29-55	MAP-SCALE 253
DATE LOG RECD 30-JUL-07	SUB-AREA	LONGITUDE 153-12-22	MAP-SERIES M
D/O FILE NO.	SHIRE 6250-REDLAND	EASTING 520347	MAP-NO 9543-32
R/O FILE NO.	LOT 47	NORTHING 6958319	MAP NAME
H/O FILE NO.	PLAN RP856261	ZONE 56	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY GPS	PRES EQUIPMENT
		GPS ACC 10	
GIS LAT -27.4986245	PARISH NAME 947-CAPALABA		ORIGINAL BORE NO SMYTHE
GIS LNG 153.2060005	COUNTY STANLEY		BORE LINE -
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 17/07/2007		DATA OWNER
STATUS Existing	DRILLERS NAME SCHUMACHER, EVAN LYALL		
ROLES WS	DRILL COMPANY DRILLMARK		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM (mm)	TOP (m)	BOTTOM (m)
A	17/07/2007	1	Polyvinyl Chloride	5.900	WT	140	0.00	24.00
A	17/07/2007	2	Perforated or Slotted Casing	4.000	AP	140	18.00	24.00
X	17/07/2007	3	Grout			200	0.00	6.00
X	17/07/2007	4	Bentonite Seal			200	6.00	7.00
X	17/07/2007	5	Bentonite Seal			175	7.00	8.00
X	17/07/2007	6	Gravel Pack	5.000	GR	175	8.00	24.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	1.00	TOPSOIL
2	1.00	7.00	HARD RED/ORANGE CLAY
3	7.00	13.00	DECOMPOSED BASALT

BORE REPORT

REG NUMBER 138666

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
4	13.00	17.00	FIRM BASALT
5	17.00	21.00	BROKENN BASALT
6	21.00	24.00	HARD BASALT

STRATIGRAPHY DETAILS

**** NO RECORDS FOUND ****

AQUIFER DETAILS

REC	TOP BED(M)	BOTTOM BED(M)	BED LITHOLOGY	DATE	SWL (m)	FLOW	QUALITY	YIELD (l/s)	CTR	CONDIT	FORMATION NAME
1	17.00	21.00	BSLT	17/07/2007	-5.00	N	600 PPM	0.60	Y	FR	PETRIE FORMATION

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

PIPE	DATE	MEASURE (m)	N/R	RMK	MEAS TYPE	PIPE	DATE	MEASURE (m)	N/R	RMK	MEAS TYPE
------	------	-------------	-----	-----	-----------	------	------	-------------	-----	-----	-----------

BORE REPORT

REG NUMBER 138666

PIPE	DATE	MEASURE (m)	N/R	RMK	MEAS TYPE
A	17/07/2007	-5.00	R		NR

PIPE	DATE	MEASURE (m)	N/R	RMK	MEAS TYPE
------	------	----------------	-----	-----	--------------

PIPE	DATE	MEASURE (m)	N/R	RMK	MEAS TYPE
------	------	----------------	-----	-----	--------------

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

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BORE REPORT

REG NUMBER 152005

REGISTRATION DETAILS

OFFICE Brisbane	BASIN 1450	LATITUDE 27-31-01	MAP-SCALE 253
DATE LOG RECD 23-APR-12	SUB-AREA	LONGITUDE 153-11-34	MAP-SERIES M
D/O FILE NO.	SHIRE 1000-BRISBANE C.	EASTING 519045	MAP-NO 9542-41
R/O FILE NO.	LOT 196	NORTHING 6956304	MAP NAME
H/O FILE NO.	PLAN M31107	ZONE 56	PROG SECTION
	ORIGINAL DESCRIPTION	ACCURACY	PRES EQUIPMENT
		GPS ACC	
GIS LAT -27.51682972	PARISH NAME 4585-TINGALPA		ORIGINAL BORE NO
GIS LNG 153.1928411	COUNTY STANLEY		BORE LINE -
CHECKED Y			
			POLYGON
			RN OF BORE REPLACED
FACILITY TYPE Sub-Artesian Facility	DATE DRILLED 18/02/2011		DATA OWNER
STATUS Existing	DRILLERS NAME SCHUMACHER, EVAN LYALL		
ROLES WS	DRILL COMPANY SCHUEY BROS DRILLING		
	METHOD OF CONST. ROTARY AIR		

CASING DETAILS

PIPE	DATE	RECORD NUMBER	MATERIAL DESCRIPTION	MAT SIZE (mm)	SIZE DESC	OUTSIDE DIAM (mm)	TOP (m)	BOTTOM (m)
A	18/02/2011	1	Polyvinyl Chloride	5.900	WT	140	0.00	27.00
A	18/02/2011	2	Perforated or Slotted Casing	4.000	AP	140	18.00	27.00
X	18/02/2011	3	Grout			200	0.00	1.00
X	18/02/2011	4	Grout			175	1.00	5.00
X	18/02/2011	5	Gravel Pack			175	5.00	27.00

STRATA LOG DETAILS

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
1	0.00	0.50	SANDY SOIL
2	0.50	2.00	YELLOW CLAY
3	2.00	9.00	WEATHERED BASALT
4	9.00	14.00	HARD BASALT

BORE REPORT

REG NUMBER 152005

RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
5	14.00	18.00	FRACTURED BASALT
6	18.00	23.00	FIRM BASALT
7	23.00	27.00	HARD BASALT

STRATIGRAPHY DETAILS

SOURCE	RECORD NUMBER	STRATA TOP (m)	STRATA BOT (m)	STRATA DESCRIPTION
DNR	1	0.00	27.00	PETRIE FORMATION

AQUIFER DETAILS

REC	TOP BED(M)	BOTTOM BED(M)	BED LITHOLOGY	DATE	SWL (m)	FLOW	QUALITY	YIELD (l/s)	CTR	CONDIT	FORMATION NAME
1	14.00	18.00	BSLT	18/02/2011	-9.00	N	400 PPM	0.25	Y	FR	PETRIE FORMATION

PUMP TEST DETAILS PART 1

**** NO RECORDS FOUND ****

PUMP TEST DETAILS PART 2

**** NO RECORDS FOUND ****

BORE CONDITION

**** NO RECORDS FOUND ****

ELEVATION DETAILS

**** NO RECORDS FOUND ****

WATER ANALYSIS PART1

**** NO RECORDS FOUND ****

WATER ANALYSIS PART 2

**** NO RECORDS FOUND ****

WATER LEVEL DETAILS

BORE REPORT

REG NUMBER 152005

PIPE	DATE	MEASURE N/R (m)	RMK	MEAS TYPE
A	18/02/2011	-9.00	R	NR

PIPE	DATE	MEASURE N/R (m)	RMK	MEAS TYPE
------	------	--------------------	-----	--------------

PIPE	DATE	MEASURE N/R (m)	RMK	MEAS TYPE
------	------	--------------------	-----	--------------

WIRE LINE LOG DETAILS

**** NO RECORDS FOUND ****

FIELD MEASUREMENTS

**** NO RECORDS FOUND ****

SPECIAL WATER ANALYSIS

**** NO RECORDS FOUND ****

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Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.ehp.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Brian Fainton
Level 4
201 Leichhardt Street
Spring Hill QLD 4000

Transaction ID: 50446540 EMR Site Id: 27 March 2018
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 1 Plan: RP14143
362-388 OLD CLEVELAND Road East
BIRKDALE

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if EHP has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if EHP has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

Administering Authority



Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.ehp.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Brian Fainton
Level 4
201 Leichhardt Street
Spring Hill QLD 4000

Transaction ID: 50446539 EMR Site Id: 27 March 2018
Cheque Number:
Client Reference:

This response relates to a search request received for the site:

Lot: 2 Plan: RP14144
362-388 OLD CLEVELAND Road East
BIRKDALE

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

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All search responses include particulars of land listed in the EMR/CLR when the search was generated.
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Administering Authority



Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.ehp.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Brian Fainton
Level 4
201 Leichhardt Street
Spring Hill QLD 4000

Transaction ID: 50446538 EMR Site Id: 27 March 2018
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 2 Plan: SP146445
362-388 OLD CLEVELAND Road East
BIRKDALE

EMR RESULT

The above site is NOT included on the Environmental Management Register.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if EHP has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if EHP has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

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