

Greenacre Waste Facility

Small-area Biodiversity Development Assessment Report

Prepared for Aussie Skips Recycling Pty Ltd

October 2025

Greenacre Waste Facility

Small-area Biodiversity Development Assessment Report

Aussie Skips Recycling Pty Ltd

E240621 RP#1

October 2025

Version	Date	Prepared by	Reviewed by	Comments
1	17 April 2025	Justin Chey	Nicole McVicar	Draft
2	24 October 2025	Ruby Ricketts	Nicole McVicar	Final

Approved by



Nicole McVicar
Associate Ecologist
24 October 2025

Level 10 201 Pacific Highway
St Leonards NSW 2065
ABN: 28 141 736 558

This report has been prepared in accordance with the brief provided by Aussie Skips Recycling Pty Ltd and, in its preparation, EMM has relied upon the information collected at the times and under the conditions specified in this report. All findings, conclusions or recommendations contained in this report are based on those aforementioned circumstances. This report is to only be used for the purposed for which it has been provided. Except as permitted by the Copyright Act 1968 (Cth) and only to the extent incapable of exclusion, any other use (including use or reproduction of this report for resale or other commercial purposes) is prohibited without EMM's prior written consent. Except where expressly agreed to by EMM in writing, and to the extent permitted by law, EMM will have no liability (and assumes no duty of care) to any person in relation to this document, other than to Aussie Skips Recycling Pty Ltd (and subject to the terms of EMM's agreement with Aussie Skips Recycling Pty Ltd).

© EMM Consulting Pty Ltd, The Forum, 201 Pacific Highway, St Leonards NSW 2065. 2025.
ABN: 28 141 736 558

BDAR declaration

Certification under clause 6.15 Biodiversity Conservation Act 2016 and conflict of interest

I certify that this report has been prepared based on the requirements of, and information provided under, the Biodiversity Assessment Method and clause 6.15 of the *Biodiversity Conservation Act 2016* (BC Act).

Accredited assessor: Nicole McVicar

Signature: 

Date: 24 October 2025

BAM Assessor Accreditation no: BAAS 18077

This Biodiversity Development Assessment Report (BDAR) has been prepared to meet the requirements of BAM 2020.

Actual, perceived or potential conflict of interest

It is noted that EMM is engaged to undertake work for both development and conservation (Stewardship) clients. There is the potential for actual, perceived or potential conflicts of interest. This section discloses relevant information known at the time of preparation of this report to such considerations.

At the time of preparation of this report, there were no known potential conflicts of interest between the client for this report with another client of EMM.

Details and experience of author/s and contributors

In this report an assessment of the biodiversity values and impacts associated with the proposal have been undertaken in accordance with the Biodiversity Assessment Method 2020 (DPIE 2020a). The Biodiversity Development Assessment Report has been prepared by accredited assessor Nicole McVicar (BAAS 18077). A number of staff contributed to fieldwork and data collection as identified in the table below.

Contributors to the BDAR

Personnel	Qualifications	Tasks carried out
Maya Potapowicz (Associate Ecologist)	Accredited Assessor (BAAS18157) Bachelor of Environmental Science (Environmental Management)	Project Director. BDAR report review
Nicole McVicar (Associate Ecologist)	Accredited Assessor (BAAS18077) Bachelor of Environmental Science Bush Regeneration Certificate II	Project Manager. Field survey and BDAR report review
William Vile (Ecologist)	Bachelor of Environmental Science and Management Masters of Conservation Biology	BDAR report preparation
Justin Chey (Ecologist)	Bachelor of Environmental Science and Management Diploma of Conservation & Land Management	BDAR report preparation and direction of field teams.

Personnel	Qualifications	Tasks carried out
Ruby Rickets (Graduate Ecologist)	Bachelor of Biodiversity and Conservation	BDAR report preparation and field survey.
Ross Wellington (Green and Golden Bell Frog Species Expert)	Bachelor of Science (Biological Sciences)	Green and Golden Bell Frog species expert advice. Preparing the <i>“Green and Golden Bell Frog Site Assessment and Conservation Measures, 13 Bellfrog Street Greenacre, NSW”</i> (Wellington, 2025) report for the project.

Executive Summary

ES1 Project description

This Small Area Biodiversity Development Assessment Report (SBDAR) assesses the biodiversity impacts of the proposed Aussie Skips Recycling Pty Ltd (Aussie Recycling) facility located at Lot 15 DP 1133214, 13 Bellfrog Street, Greenacre, NSW (subject land).

The subject land is currently used for the receipt, storage and export of soils, aggregates, virgin excavated natural material (VENM) and other similar waste materials.

Aussie Recycling are proposing to lodge a new State Significant Development (SSD) application (SSD-67497708) seeking approval to construct and operate a materials recovery facility (MRF) on the subject land. The proposal includes demolition, alterations, construction, including a fixed waste processing plant, and ancillary activities.

The construction stage will include the implementation of the measures recommended in the *Green and Golden Bell Frog Site Assessment and Conservation Measures* (AES 2025), prepared by the Green and Golden Bell Frog (GGBF) species expert Ross Wellington. These consist of:

- upgrading the existing swale at the rear of the subject land, to improve and create habitat
- maintaining GGBF access to the improved habitat area at the rear of the subject land, while preventing access to operational areas on the site.

ES2 Landscape features

The subject land is located wholly within the Sydney Basin Interim Biogeographic Regionalism for Australia (IBRA) bioregion and Cumberland IBRA subregion. It is also located wholly within the Ashfield Plains NSW Mitchell Landscape.

The subject land contains no native vegetation. Native vegetation in the locality is very rare; the percentage native vegetation cover within the 1,500-metre project buffer is 4.7%. Cox's Creek, a second order Strahler stream is located directly to the east outside of the subject land. This creek has been reconstructed in the past to a concrete channel. Cox's Creek is a tributary of the Cooks River, about 1.3 kilometres (km) to the north of the subject land.

ES3 Vegetation

The subject land is void of any native vegetation communities, being an industrial recycling facility, located within a highly industrialised and urbanised area of Greenacre. The vegetation present in the swale at the back of the Aussie Recycling facility is entirely comprised of exotic species, with the exotic grasses Kikuyu (*Cenchrus clandestinus*), Paspalum (*Paspalum dilatatum*), and the weeds Fleabane (*Conyza bonariensis*), Purpletop (*Verbena bonariensis*), Crofton Weed (*Ageratina adenophora*) and Blackberry Nightshade (*Solanum nigrum*).

ES4 Threatened species

Known habitat areas for Green and Golden Bell Frog (*Litoria aurea*) (GGBF) occur locally, within Cox's Creek Reserve to the west of the subject land, as well as the Intermodal, RailCorp and Juno Parade frog ponds to the north. It is accepted that GGBF will occupy and utilise areas immediately adjacent to the subject land from time to time (AES 2025). Detailed information is provided in the Green and Golden Bell Frog Site Assessment and Conservation Measures report, prepared by AES 2025.

ES5 Impact avoidance, minimisation and mitigation

Whilst the current biodiversity values on the Aussie Recycling facility are highly limited, the proposal has avoided direct impacts to the green space area, while proposing to improve this area of habitat for GGBF's potentially moving through the site, and provide safer refuge along their movement corridor of Cox's Creek. An expert report, alongside this SBDAR, concluded that no GGBF will be directly or indirectly impacted by the proposal, and it is considered that their dispersal habitat will be enhanced with the conservation measures proposed in the Green and Golden Bell Frog Site Assessment and Conservation Measures report, prepared by AES 2025.

ES6 Assessment of impacts under other relevant biodiversity legislation

This SBDAR has also considered impacts on Matters of National Environmental Significance (MNES) under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act); a significant impact assessment was undertaken for GGBF, where it was concluded that the proposal will not result in a significant impact to GGBF.

ES7 Biodiversity impacts and offsets

No plant community types (PCTs) exist within the subject land. No threatened species will be directly or indirectly impacted by the proposal, and it is considered that their habitat will be enhanced with the conservation measures proposed in the Green and Golden Bell Frog Site Assessment and Conservation Measures report, prepared by AES 2025.

Therefore, no biodiversity credits are required to offset the impacts of the development on PCTs and threatened entities.

Glossary

A glossary of terms, acronyms, and project elements referred to in this SBDAR are provided below.

Glossary of terms referred to in this SBDAR

Term	Definition
Assessment area	1,500 m buffer of the subject land
Subject land	Lot 15 DP1133214, which will be subject to construction and operational activities of the project, including laydown, access, and proposed conservation area
Disturbance footprint	Area subject to all proposed direct impacts
Indirect impact area	Areas of the subject land where there is the potential for indirect impacts on GGBF, which includes the disturbance footprint, areas outside of the disturbance footprint, and the grassy swale in the east of the subject land
EPBC Act	Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i>
EP&A Act	NSW <i>Environmental Planning and Assessment Act 1979</i>
BC Act	NSW <i>Biodiversity Conservation Act 2016</i>
BOS	NSW Biodiversity Offset Scheme
BAM	NSW Biodiversity Assessment Method (DPIE 2020)
SBDAR	Small Area Biodiversity Assessment Report
Aussie Recycling	Aussie Recycling Pty Ltd
Aussie Recycling facility	The Aussie Recycling facility, located at 13 Bellfrog Street, Greenacre NSW (Lot 15 DP1133214)
The project	Aussie Recycling's proposed expansion of the existing waste facility, at 13 Bellfrog Street, Greenacre (Lot 15 DP1133214), and the proposed mitigation measures for the Green and Golden Bellfrog (<i>Litoria aurea</i>), including habitat improvement.

TABLE OF CONTENTS

Executive Summary	ES.1
Glossary	I
1 Introduction	1
1.1 The project	1
1.2 Site description and definitions	2
1.3 Assessment requirements	3
1.4 Purpose of this report	3
1.5 Information sources	3
2 Legislative context	8
2.1 Commonwealth	8
2.2 State	8
2.3 Biodiversity Conservation Act 2016	9
2.4 Biosecurity Act 2015	9
2.5 Water Management Act 2000 and Water Management (General) Regulation 2018	10
3 Landscape features	13
3.1 Landscape features	13
3.2 Assessment of site context	13
4 Results	17
5 Threatened species	23
5.1 Threatened species habitat description	23
5.2 Ecosystem credit species	25
5.3 Species credit species	25
7 Avoidance, minimisation, and mitigation measures on biodiversity values	28
7.1 Avoiding impacts on biodiversity values	28
7.2 Minimising impacts on biodiversity values	28
7.3 Mitigation measures for biodiversity values	29
8 Prescribed impacts	32
8.1 Potential direct, indirect and prescribed impacts	32
8.2 Impacts requiring offset	33
8.3 Impacts not requiring offsets	33
9 Serious and Irreversible Impacts	34

9.1	Absence of SAIIs	34
10	Biodiversity credits	35
11	Assessment of other relevant biodiversity legislation	36
11.1	Environment Protection and Biodiversity Conservation Act 1999	36
12	Conclusion	55
	References	56

Appendices

Appendix A	Green And Golden Bell Frog Site Assessment and Conservation Measures, 13 Bellfrog Street Greenacre, NSW	A.1
Appendix B	Protected Matters Search Results	B.1
Appendix C	Email consultation with Frog and Tadpole Study Group of NSW Inc	C.1

Tables

Table 1.1	Project elements referred to in this BDAR	2
Table 1.2	Assessment and consultation requirements	3
Table 3.1	Percentage of native vegetation cover by IBRA subregion	14
Table 5.1	Candidate threatened species assessment	26
Table 7.1	Impact avoidance and minimisation strategy	28
Table 8.1	Prescribed impact assessment	32
Table 11.1	Likelihood of occurrence of EPBC listed fauna species	37
Table 11.2	Likelihood of occurrence of EPBC listed flora species	44
Table 11.3	Green and Golden Bell Frog vulnerable species impact assessment	50

Figures

Figure 1.1	Project layout	6
Figure 1.2	Regional context	7
Figure 3.1	Location map	15
Figure 3.2	Site map	16
Figure 4.1	Site vegetation map	22
Figure 5.1	Green and Golden Bell Frog habitat	24
Figure 7.1	Frog habitat concept layout	31
Figure 11.1	Old Brick Pit site, Greenacre, on 1 January 2000, with the current 2025 cadastre overlaid	48

Photographs

Photograph 2.1	Cox's Creek viewed from Juno Parade	11
Photograph 4.1	Green space located at the back of the existing facility	18
Photograph 4.2	Example of gaps at the base of the fence, in the green space	19

Photograph 4.3	Example of potential shelter habitat within the green patch, and gaps at the base of the fence	19
Photograph 4.4	Cox's Creek Reserve viewed from the gate off Drone Street	20
Photograph 4.5	Intermodal GGBF ponds	20
Photograph 4.6	Juno Parade GGBF ponds	21
Photograph 4.7	Railway between Juno Parade and Cosgrove Street GGBF ponds	21

1 Introduction

1.1 The project

Aussie Skips Recycling Pty Ltd (Aussie Recycling) is proposing to upgrade the existing waste facility located at 13 Bellfrog Street, Greenacre (Lot 15/DP1133214) (hereafter referred to as the 'subject land').

The subject land is currently used for the receipt, storage and export of soils, aggregates, virgin excavated natural material (VENM) and other similar waste materials. The subject land is currently permitted to receive an annual combined throughput of waste material of 199,000 tonnes (t) in any 12-month period.

Aussie Recycling are proposing to lodge a new State Significant Development (SSD) application (SSD-67497708) seeking approval to construct and operate a materials recovery facility (MRF) on the subject land. The proposal includes minor demolition, alterations to existing site components, installation of a fixed waste processing plant and site infrastructure, construction of environmental conservation measures, and the ongoing operation of the MRF.

The MRF will have two main buildings, a waste receival building and a processing building. These will be connected by an enclosed conveyor. There will be an open yard between these buildings to allow truck access for delivery of waste and dispatch of recovered products and residual waste.

The MRF will accept and recycle, construction and demolition (C&D) waste, commercial and industrial (C&I) waste and non-putrescible municipal solid waste (MSW), including building and demolition (B&D) wastes such as brick, asphalt, concrete and metals. It is proposed that up to 199,000 t of waste will be accepted and processed in any 12-month period. It is proposed to extend the subject land's operating hours compared to those currently approved.

The construction stage will include the implementation of the measures recommended in the *Green and Golden Bell Frog Site Assessment and Conservation Measures* (AES 2025), prepared by the Green and Golden Bell Frog (GGBF) species expert Ross Wellington. These consist of:

- upgrading the existing swale at the rear of the subject land, to improve and create habitat
- maintaining GGBF access to the improved habitat area at the rear of the subject land, while preventing access to operational areas on the site.

MRF operations will include:

- receipt of waste via heavy road vehicles
- storage of waste in the receival building
- handling of waste by the conveyor and mobile plant
- processing of waste, including sifting, picking and screening, using mobile plant and the fixed waste processing plant
- storage of recovered products and residual waste
- dispatch of recovered products and residual waste by heavy road vehicles
- ancillary activities including operation of a workshop, employee parking, overnight truck parking, equipment storage, maintenance, diesel fuel storage in a self-contained fuel tank, waste sampling, quality assurance and use of the subject land's existing facilities.

All waste storage, handling and processing will be within the buildings and conveyor. No waste will be stored, handled or processed outside. This Small Area Biodiversity Development Assessment Report (SBDAR) has been prepared by EMM Consulting Pty Limited (EMM), on behalf of Aussie Recycling in accordance with the Biodiversity Assessment Method (BAM) (DPIE 2020).

This SBDAR contains the terrestrial biodiversity assessments required under NSW *Biodiversity Conservation Act 2016* (BC Act) and the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

The subject land is close to known Green and Golden Bell Frog (GGBF) dispersal and breeding habitat. A *Green and Golden Bell Frog Site Assessment and Conservation Measures* (AES 2025) report, prepared by the species expert Ross Wellington is provided in Appendix A.

The project, subject land boundary and it's regional context are displayed below in Figure 1.1 and Figure 1.2.

1.2 Site description and definitions

The subject land is 0.65 hectares in size and located in the Strathfield local government area and is zoned as E4 – General Industrial under the Strathfield Local Environmental Plan 2012. The subject land was previously an open quarry, which was infilled prior to 2005 and referred to as the ‘old Brick Pit site’. The site was subsequently converted to a waste management facility in 2014, where it is now comprised of processing facilities, storage buildings, concrete pads and a small patch of exotic vegetation (0.02 hectares).

Native vegetation within the assessment area (i.e. the 1,500 metre (m) subject land buffer) is extremely sparse and highly fragmented. Riparian vegetation is limited to strands of disturbed and regenerating vegetation, which includes a highly fragmented connection to Cox’s Reserve. Cox’s Reserve is situated approximately 500 m from the subject land to the west, with an array of industrial uses and residential housing impeding connectivity of native vegetation. Cox’s Creek exists as a concrete lined channel and is situated directly adjacent to the subject land. To the north of the subject land, adjacent to Cox’s Creek, are frog habitat ponds (Juno Parade frog habitat) which are subject to monitoring and management works by Strathfield Council and the Frogs and Tadpole Study Group of NSW (FATS). The RailCorp frog pond, formerly the FreightCorp pond, is situated to the northwest of the subject land. Further east across the railway lines within the Enfield Intermodal are a system of ponds that are managed by NSW Ports.

Project elements referred to in this SBDAR are provided in Table 1.1.

Table 1.1 Project elements referred to in this BDAR

Project elements	Definition
Assessment area	1,500 m buffer from the subject land
Subject land	Lot 15 DP1133214, which will be subject to construction and operational activities of the project and proposed conservation area
Disturbance footprint	Area subject to all proposed direct impacts
Indirect impact area	Areas of the subject land where there is the potential for indirect impacts on GGBF, which includes the disturbance footprint, areas outside of the disturbance footprint, and the grassy swale in the east of the subject land

1.3 Assessment requirements

This SBDAR accompanies an SDD application under Part 4, Division 4.7 of the EP&A Act. It is a requirement under the Secretary's Environmental Assessment Requirements (SEARs) that this BDAR be prepared. Table 1.2 outlines the biodiversity assessment requirements relevant to the project and describes where these are addressed in the SBDAR.

Table 1.2 **Assessment and consultation requirements**

Requirement	Section addressed
Secretary's Environmental Assessment Requirements (SEARs) Biodiversity – an assessment of the proposal's biodiversity impacts in accordance with the <i>Biodiversity Conservation Act 2016</i> , including the preparation of a Biodiversity Development Assessment Report (BDAR) where required under the Act, except where a waiver for preparation of a BDAR has been granted.	All sections of this report
Biodiversity Assessment Method (DPIE 2020) - Appendix C: Streamlined assessment module – Small area This BDAR has been assessed in accordance with Appendix C: Streamlined assessment module – Small area, of the BAM. Due to no native vegetation being proposed to be cleared, the proposal is within the 'clearing limit' under which the small area development module applies.	All sections of this report
Consultation with BCS, Local Council and FATS Group of NSW	Sections 3, 4, 5 and 7, and Appendix C

1.4 Purpose of this report

The specific objectives of this assessment are to:

- assess the likelihood that threatened species and communities (threatened biodiversity) listed under relevant the NSW *Biodiversity Conservation Act 2016* (BC Act) and Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) could occur in the subject land
- document the strategies implemented to avoid and/or minimise impacts of the project on threatened biodiversity
- assess residual threatened biodiversity impacts, after avoidance and minimisation strategies have been implemented
- provide environmental safeguards to mitigate threatened biodiversity impacts during construction and operation.

1.5 Information sources

1.5.1 Publications and databases

In order to provide context for the project, information about flora and fauna species, populations, communities and habitats from the locality (generally within 10 km) was obtained from the following publications and databases:

- BioNet Atlas of NSW Wildlife for previous threatened species records (NSW DCCEEW 2025).
- Commonwealth EPBC Act Protected Matters Search Tool (PMST) for Matters of National Environmental Significance (MNES) likely to occur within the subject lands (Comm. DCCEEW 2025).

- NSW State Vegetation Type Map (NSW DCCEEW 2024), to assess the percentage of native vegetation cover, and identify any potential vegetated connectivity.
- Green And Golden Bell Frog Site Assessment and Conservation Measures 13 Bellfrog Street Greenacre, NSW (AES 2025) report, written by Ross Wellington of Australian Environmental Surveys, to assess and inform conservation measures.
- The Green and Golden Bell Frog Key Population at Greenacre – Management Plan, Sydney Metropolitan Catchment Management Authority (DECC 2007).

1.5.2 Other relevant reports

This biodiversity assessment has been prepared with reference to other technical reports that were prepared as part of this assessment. The other relevant reports referenced in this biodiversity assessment are listed below.

- Aussie Recycling Greenacre Soil Processing Upgrades – Scoping Report for SSD (4Pillars Environmental Consulting 2024).
- Request for a BDAR Waiver for Aussie Recycling (East Coast Ecology 2024).
- Appendix A - Matters to be addressed in BDAR (NSW Biodiversity Conservation and Science (BCS) Directorate, now Conservation Programs, Heritage and Regulation Group (CPHR) 2024).

1.5.3 Consultation with relevant groups and experts

As outlined in prior communication with the BCS, ongoing communication and consideration of advice is required in this assessment. The relevant groups and experts consulted in this assessment include:

- Ross Wellington - GGBF species expert
- Strathfield Council (who referred us to consult with the Frog and Tadpole Study Group of NSW)
- Frog and Tadpole Study Group of NSW (FATS) – Arthur White.

1.5.4 Spatial data

Spatial data encompassing the subject land, including the disturbance footprint, was received from 4Pillars Environmental Consulting on 3 April 2025 (4Pillars 2025). Base map data was obtained from Department of Finance, Services and Innovation (DFS) NSW databases, with cadastral data obtained from DFS digital cadastral database Mapping of stream orders was obtained from DPI.

The following spatial datasets were utilised during the development of this report:

- NSW State Vegetation Type Map. Release C2.0.M2.1 (NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW) 2024).
- *Mitchell Landscapes Version V3.1* (NSW Office of Environment and Heritage (OEH), now NSW DCCEEW, 2016).
- *Interim Biogeographic Regionalisation of Australia (IBRA) Version 7* (Commonwealth Department of Environment and Energy (DoEE) now Commonwealth DCCEEW 2017).
- Directory of important wetlands (DoEE 2018).
- NSW Wetlands (OEH 2010).

Mapping undertaken during the site assessment was conducted using a hand-held GPS unit, smart phones running Field Maps™ and Survey123 for ArcGIS™ and aerial photo interpretation. Accuracy is subject to accuracy of GPS devices, generally ± 5 m. Mapping has been produced using a Geographic Information System (GIS; ArcGIS 10.5).

Spatial data relevant to this BDAR was provided to the Department of Planning, Housing and Infrastructure (DPHI) and Conservation Programs, Heritage and Regulation Group (CPHR) following lodgement of the BDAR.

\\emm.local\drive\2024\1E240621- Greenacre Waste Facility BDAR\GIS\02 Maps\BDAR\BDAR006 ProjectArea\BDAR006 ProjectArea.aprx 4/06/2025



KEY

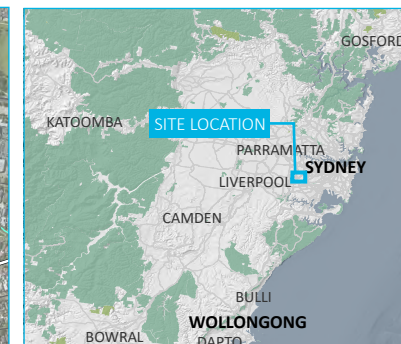
- Greenacre waste facility
- Conservation area
- Proposed construction
 - Awning
 - Bay
 - Conveyor
 - Conveyor access
 - Excavator
 - Hopper and conveyor
 - Loader
 - Material processing area
 - Processing building
 - Receiving building
 - Stairs

Note:

- Entire extent of the project is within Cumberland IBRA subregion and the Sydney basin region
- Vegetation mapped by the SVTM is absent from the Subject land
- Entire extent of the project is within Ashfield Plains soil landscape

Project layout

Greenacre Waste Facility
Biodiversity Development Assessment Report
Figure 1.1



- KEY**
- Greenacre waste facility
 - Green and Golden Bell Frog pond
- State vegetation type map
- 3262 | Sydney Turpentine Ironbark Forest
 - 3448 | Castlereagh Ironbark Forest
 - 4091 | Grey Mangrove-River Mangrove Forest
- Strahler stream order
- 1st order
 - 2nd order
- Existing environment
- Major road
 - Minor road
 - Local government area
- INSET KEY**
- Major road
 - NPWS reserve
 - State forest

Regional context

Greenacre Waste Facility
Biodiversity Development Assessment Report
Figure 1.2

2 Legislative context

This chapter provides a brief outline of the key biodiversity legislation and government policy considered in this assessment.

2.1 Commonwealth

2.1.1 Environmental Protection and Biodiversity Conservation Act 1999

The *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act) provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities, heritage places and water resources which are defined as Matters of National Environmental Significance (MNES) under the EPBC Act. These are:

- world heritage properties
- places listed on the National Heritage Register
- Ramsar wetlands of international significance
- threatened flora and fauna species and ecological communities
- migratory species
- Commonwealth marine areas
- the Great Barrier Reef Marine Park
- nuclear actions (including uranium mining)
- water resources, in relation to coal seam gas or large coal mining development.

Under the EPBC Act, an action that may have a significant impact on a MNES is deemed to be a 'controlled action' and can only proceed with the approval of the Commonwealth Minister for the Environment. An action that may potentially have a significant impact on a MNES is to be referred to DCCEEW for determination as to whether or not it is a controlled action. If deemed a controlled action, the project is assessed under the EPBC Act and a decision made as to whether or not to grant approval.

The one EPBC listed entity likely to occur, being the Green and Golden Bell Frog listed Vulnerable under the EPBC Act, has been assessed against the Significant impact guidelines, for Matters of National Environmental Significance (DoE 2013) in Section 11.1.

2.2 State

2.2.1 Environmental Planning and Assessment Act 1979

The NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) was enacted to encourage the consideration and management of impacts of proposed development or land-use changes on the environment and the community. The EP&A Act is administered by the NSW Department of Planning, Housing and Infrastructure (DPHI).

The EP&A Act provides the overarching structure for planning in NSW; however, is supported by other statutory environmental planning instruments (EPIs) including State Environmental Planning Policies (SEPPs). EPIs relevant to the natural environment are outlined further below.

i State Environmental Planning Policy (State and Regional Development) 2011

On 6 March 2024, the project was declared to be State Significant Development (SSD) by the NSW Minister for Planning under the provisions of the EP&A Act and is defined in clause 9 of Schedule 5 of the SRD SEPP.

ii State Environmental Planning Policy (Biodiversity and Conservation) 2021

State Environmental Planning Policy (Biodiversity and Conservation) 2021 (hereafter referred to as the Biodiversity and Conservation SEPP) aims to encourage the proper conservation and management of areas of natural vegetation, and areas that provide habitat for Koalas.

In the context of this proposal, Chapter 2 of the Biodiversity and Conservation SEPP applies because it is within the Strathfield local government area and is zoned E4 – General Industrial.

No clearing of vegetation will be undertaken under this proposal; therefore, the Biodiversity and Conservation SEPP does not apply in this instance.

2.3 Biodiversity Conservation Act 2016

The *Biodiversity Conservation Act 2016* (BC Act) is the legislation responsible for the conservation of biodiversity in NSW through the protection of threatened flora and fauna species, populations and ecological communities. The BC Act, together with the Biodiversity Conservation Regulation 2017 (BC Regulation), established the Biodiversity Offsets Scheme (BOS).

The BOS includes establishment of the Biodiversity Assessment Method (the BAM) (DPIE 2020) for use by accredited persons in biodiversity assessment under the scheme. The purpose of the BAM is to assess the impact of actions on threatened species and threatened ecological communities, and their habitats and determine offset requirements. For major projects, use of the BAM is mandatory, unless a BDAR waiver is granted.

In relation to this Project, two BDAR waivers have been requested and rejected due to the requirement for consideration of biodiversity values within and in close proximity to the subject land.

The BAM sets out the requirements for a repeatable and transparent assessment of terrestrial biodiversity values on land in order to:

- identify the biodiversity values on land subject to proposed development area
- determine the impacts of a proposed development, following all measures to avoid, minimise and mitigate impacts
- quantify and describe the biodiversity credits required to offset the residual impacts of proposed development on biodiversity values.

This biodiversity assessment has been undertaken in accordance with the requirements of the BAM.

2.4 Biosecurity Act 2015

The NSW *Biosecurity Act 2015* has superseded the *Noxious Weeds Act 1993*, which has now been repealed.

The primary objective of the Biosecurity Act is to provide a framework for the prevention, elimination and minimisation of biosecurity risks posed by biosecurity matter, dealing with biosecurity matter, carriers and potential carriers, and other activities that involve biosecurity matter, carriers or potential carriers.

The Biosecurity Act stipulates management arrangements for weed biosecurity risks in NSW, with the aim to prevent, eliminate and minimise risks. Management arrangements include:

- any land managers and users of land have a responsibility for managing weed biosecurity risks that they know about or could reasonably be expected to know about
- applies to all land within NSW and all waters within the limits of the State
- local strategic weed management plans will provide guidance on the outcomes expected to discharge duty for the weeds in that plan.

The vegetated 'green patch' within the subject land is dominated by exotic grasses and weed species, including Kikuyu (*Cenchrus clandestinus*), Paspalum (*Paspalum dilatatum*), and Fleabane (*Conyza bonariensis*). The proposal includes improving this dispersal habitat with native species.

2.5 Water Management Act 2000 and Water Management (General) Regulation 2018

The section of Cox's Creek adjacent to the subject land is concrete lined as shown in Photograph 2.1. According to Clause 28 of Schedule 4 of the Water Management (General) Regulation 2018, the activity is exempt as an activity on waterfront land, due to the watercourse being "*fully concrete lined*" (WM (General) Regulation 2018).



Photograph 2.1 **Cox's Creek viewed from Juno Parade**

Part A

Biodiversity assessment

3 Landscape features

3.1 Landscape features

The landscape features described in the following sections are shown on Figure 3.1 and Figure 3.2.

The subject land occurs within the Sydney Basin IBRA region and Cumberland subregion and Ashfield Plains (Asp) BioNet NSW Landscape (formerly Mitchell Landscapes).

The subject land is located within the Cooks River Catchment which is bordered by the Port Jackson and the Parramatta River Catchment to the north, Georges River Catchment to the west, and Botany Bay Catchment to the east. The Cooks River catchment in this part of the catchment is highly urbanised, primarily consisting of canals, modified streams and fragmented reserves, including the Cox's Creek Reserve.

The subject land is adjacent to Cox's Creek which is classified as a second order Strahler stream, joining the Cooks River approximately 1.5 km downstream. The Cox's Creek and Cooks River are perennial streams, with the substratum at this section consisting of concrete canals. The riparian zone of both watercourses is sporadically clumped with vegetation, and in this area some of the banks are entirely unvegetated. The Cox's Creek Reserve is within close proximity to the subject land and is included in the Greenacre GGBF Management Plan (DECC 2007).

The subject land and buffer area does not contain any nationally important wetlands, local wetlands or important wetlands listed on the NSW Wetlands layer; however, the subject land is upstream and within 1.5 km of an area subject to the Coastal Management SEPP 2018 (SEED 2025). It should also be noted that the subject land was previously the 'brick pit site', which was mapped on the NSW Wetlands mapping layer. As this entire area has been infilled and developed, this wetland mapping presented on our mapping.

The nearest important wetland is the Ramsar Wetland – Towra Point Nature Reserve, located approximately 20 km south-east of the buffer area (PMST 2025).

3.1.1 Connectivity

The locality of the subject land is highly fragmented with native vegetation only occurring in isolated patches surrounded by a matrix of industrial and residential land. This is also consistent with the remaining vegetation within and adjoining the subject land.

The subject land is located within the 20 m riparian buffer of Cox's Creek. This riparian buffer occurs in a highly disturbed state due to past stream modification practices. Cox's Creek Reserve is situated approximately 500 m west of the subject land, with the only connectivity being residential gardens and roadside vegetation.

3.1.2 Areas of geological significance

No areas of geological significance occur in the subject land or buffer area. There are no important areas of geological significance within the buffer area.

3.1.3 Areas of outstanding biodiversity value

No areas of outstanding biodiversity value (AOBV) occur within the subject land buffer area.

3.2 Assessment of site context

The extent of native vegetation cover based on the SVTM (NSW DCCEW 2024) is shown on Figure 3.1.

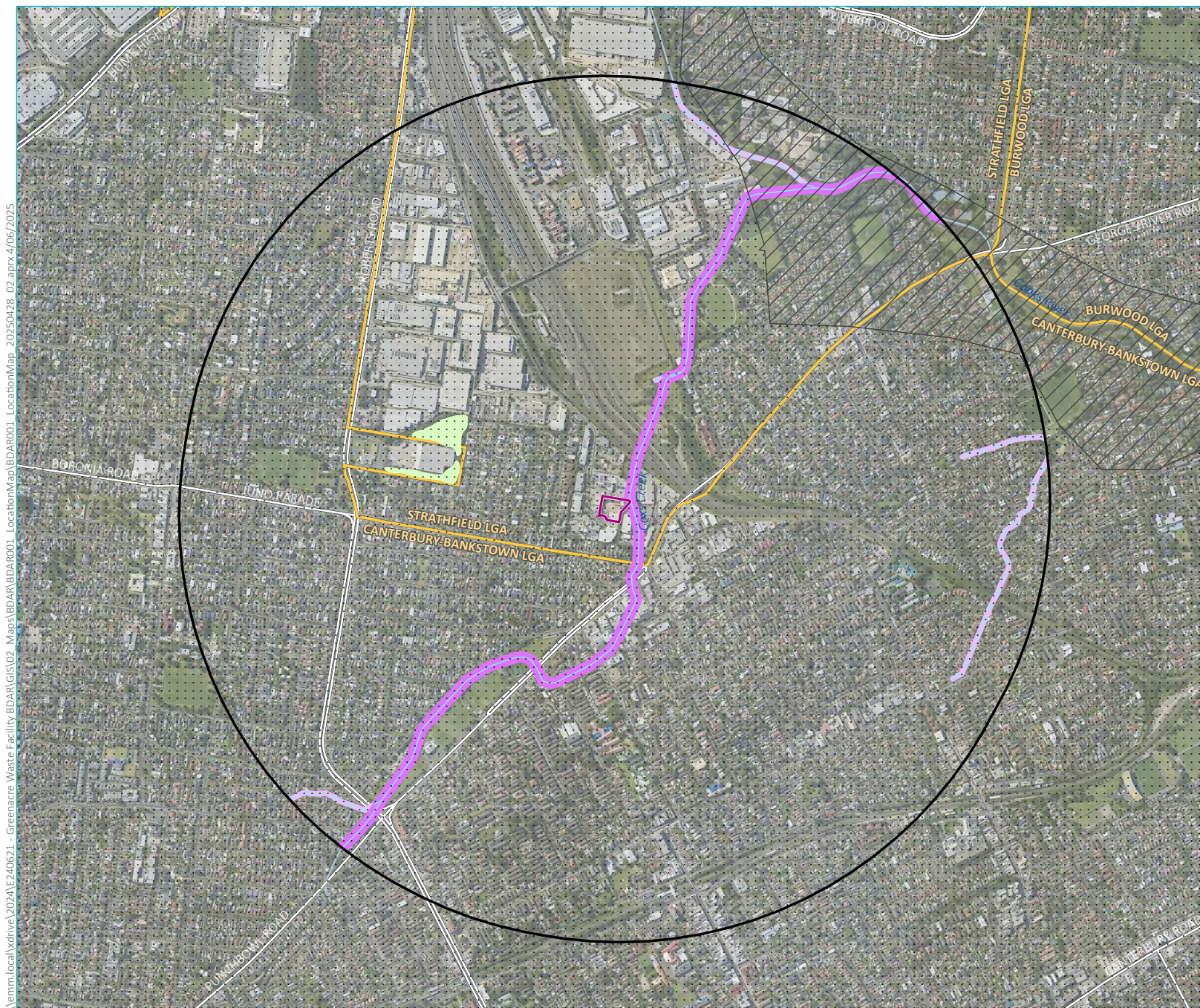
To calculate the native vegetation cover, a 1,500 m buffer was placed around the subject land. The area and percentage of mapped native vegetation within the buffer and subject land was then calculated.

The site inspection confirmed that no native vegetation occurs within the subject land. Vegetation mapping by the SVTM (NSW DCCEEW 2024) across the 1,500 m buffer area shows that mapped native vegetation is restricted to Cox’s Creek Reserve, and connected vegetation, surrounding the Primo Foods distribution centre.

Native vegetation cover for the subject land and 1,500 m buffer area is provided in Table 3.1.

Table 3.1 Percentage of native vegetation cover by IBRA subregion

IBRA subregion	Native vegetation in buffer area (ha)	Buffer area (ha)	Approximate percentage of native vegetation in buffer area
Cumberland	35.56	757.21	4.7%



KEY

Greenacre waste facility

1500 m project buffer

Native vegetation

NSW landscape

Ashfield Plains

Port Jackson Basin

Strahler stream order

1st order

2nd order

Riparian buffer

10 m

20 m

Existing environment

Major road

Minor road

Local government area

Note:

-Entire extent of the project is within Cumberland

IBRA subregion and the Sydney basin region

-AOBV are absent from the 1,500 project buffer

Location Map

Greenacre Waste Facility
Biodiversity Development Assessment Report
Figure 3.1

\\emm.local\drive\2024\240621- Greenacre Waste Facility BDAR\GIS\02 Maps\BDAR\BDAR002_SiteMap_20250428 03 aprx 11\06\2025



KEY

Greenacre waste facility

Conservation area

Strahler stream order

2nd order

Riparian buffer

20 m

Existing environment

Cadastre

Note:

- Entire extent of the project is within Cumberland IBRA subregion and the Sydney basin region
- Vegetation mapped by the SVTM is absent from the Subject land
- Entire extent of the project is within Ashfield Plains soil landscape

Site Map

Greenacre Waste Facility
Biodiversity Development Assessment Report
Figure 3.2

4 Results

4.1.1 Site inspection

A site inspection was completed by EMM ecologists Nicole McVicar (Associate Ecologist) and Ruby Ricketts (Graduate Ecologist) on 11 March 2025. The following areas were the focus of the site inspection:

- The green space (i.e. proposed conservation area) at the back of the Aussie Recycling Facility.
- Cox's Creek.
- Cox's Creek Reserve.
- The NSW Ports GGBF ponds.
- The FATs GGBF ponds.

The team met a member of 4Pillars (representing on behalf of Aussie Recycling) at the site, where the green space at the back of the facility was examined (Photograph 4.1). The groundcover of the green space was entirely comprised of exotic species, with the dense ground layer dominated by the exotic grasses Kikuyu (*Cenchrus clandestinus*), Paspalum (*Paspalum dilatatum*), and exotic forbs Fleabane (*Conyza bonariensis*), Purpletop (*Verbena bonariensis*), Crofton Weed (*Ageratina adenophora*) and Blackberry Nightshade (*Solanum nigrum*). Golden Wreath Wattle (*Acacia saligna*) are overhanging from the other side of the fence, however, are absent in the subject land. With dense ground cover and direct connection to Cox's Creek, accessible through gaps in the site fencing (Photograph 4.2), the green space was determined to be potential dispersal habitat for GGBF. Furthermore, potential shelter habitat was observed in features like crevices in man-made structures, such as wooden steps, with gaps (Photograph 4.3).

Cox's Creek acts as an important movement corridor for adult GGBFs dispersing between Cox's Creek Reserve and the GGBF ponds. The creek was inspected from where it intersects Juno Parade, and it was noted that Cox's Creek was extremely modified, consisting of impervious surfaces and a lack of riparian vegetation cover, with culverts connecting onto the canal (Photograph 2.1).

The GGBF ponds and Cox's Creek Reserve have historically been occupied by GGBF, but inspection of these areas was limited due to locked gates present at both sites. Cox's Creek Reserve was inspected from the locked entry off Drone Street, where a mix of paperbarks (i.e. *Melaleuca decora*, *Melaleuca styphelioides* and *Melaleuca nodosa*), sedges and rushes and exotic grasses were observed from a distance (Photograph 4.4). The NSW Ports GGBF ponds (Photograph 4.5 and Photograph 4.6) were viewed from the Enfield Intermodal Logistics Lookout. While a detailed assessment of the ponds could not be provided, landscaping features suitable for GGBF habitat, such as rock piles and grasses, were observed.

The site inspection revealed that these sites provide important breeding, dispersal habitat and refuge shelters for the GGBF population in Greenacre, within a highly urbanised and industrial landscape (Photograph 4.7).

The site vegetation map is provided in Figure 4.1.



Photograph 4.1 **Green space located at the back of the existing facility**



Photograph 4.2 **Example of gaps at the base of the fence, in the green space**



Photograph 4.3 **Example of potential shelter habitat within the green patch, and gaps at the base of the fence**



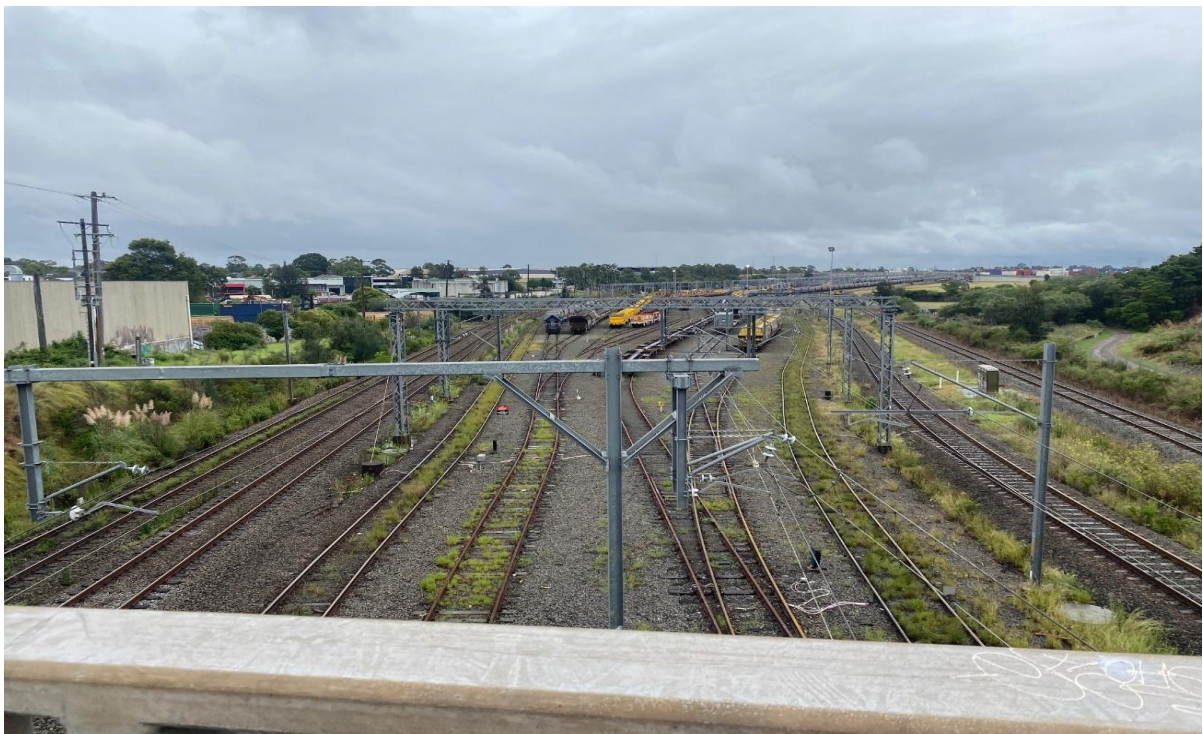
Photograph 4.4 Cox's Creek Reserve viewed from the gate off Drone Street



Photograph 4.5 Intermodal GGBF ponds



Photograph 4.6 **Juno Parade GGBF ponds**



Photograph 4.7 **Railway between Juno Parade and Cosgrove Street GGBF ponds**

\\emm.local\drive\2024\I240621 - Greenacre Waste Facility BDAR\GIS\02_Maps\BDAR\BDAR004_VegetationMap\20250428_02.aprx 4/06/2025



KEY

 Greenacre waste facility

 Exotic vegetation

Strahler stream order

 2nd order

Existing environment

 Cadastre

Note:

- Entire extent of the project is within Cumberland IBRA subregion and the Sydney basin region
- Vegetation mapped by the SVTM is absent from the Subject land
- Entire extent of the project is within Ashfield Plains soil landscape

Site vegetation map

Greenacre Waste Facility
Biodiversity Development Assessment Report
Figure 4.1

5 Threatened species

5.1 Threatened species habitat description

The subject land has an extensive history of use for industrial purposes, particularly for material processing, and was historically a brick quarry. As a result, the subject land provides very limited refuge or foraging habitat for fauna. Fauna habitat is limited to a small area of exotic vegetation with an overall lack of habitat features. However, it is recognised that GGBFs may pass through the green space at the rear of the subject land, whilst moving through Cox's Creek, via gaps at the base of the fence, open to Cox's Creek, as shown in Photograph 4.1, Photograph 4.2 and Photograph 4.3.

The exotic vegetation has been maintained through consistent mowing. The vegetation consists entirely of a dense cover of exotic grasses, including tussock grasses, and forbs, as shown in Photograph 4.1. The upper- and mid-storey is entirely absent.

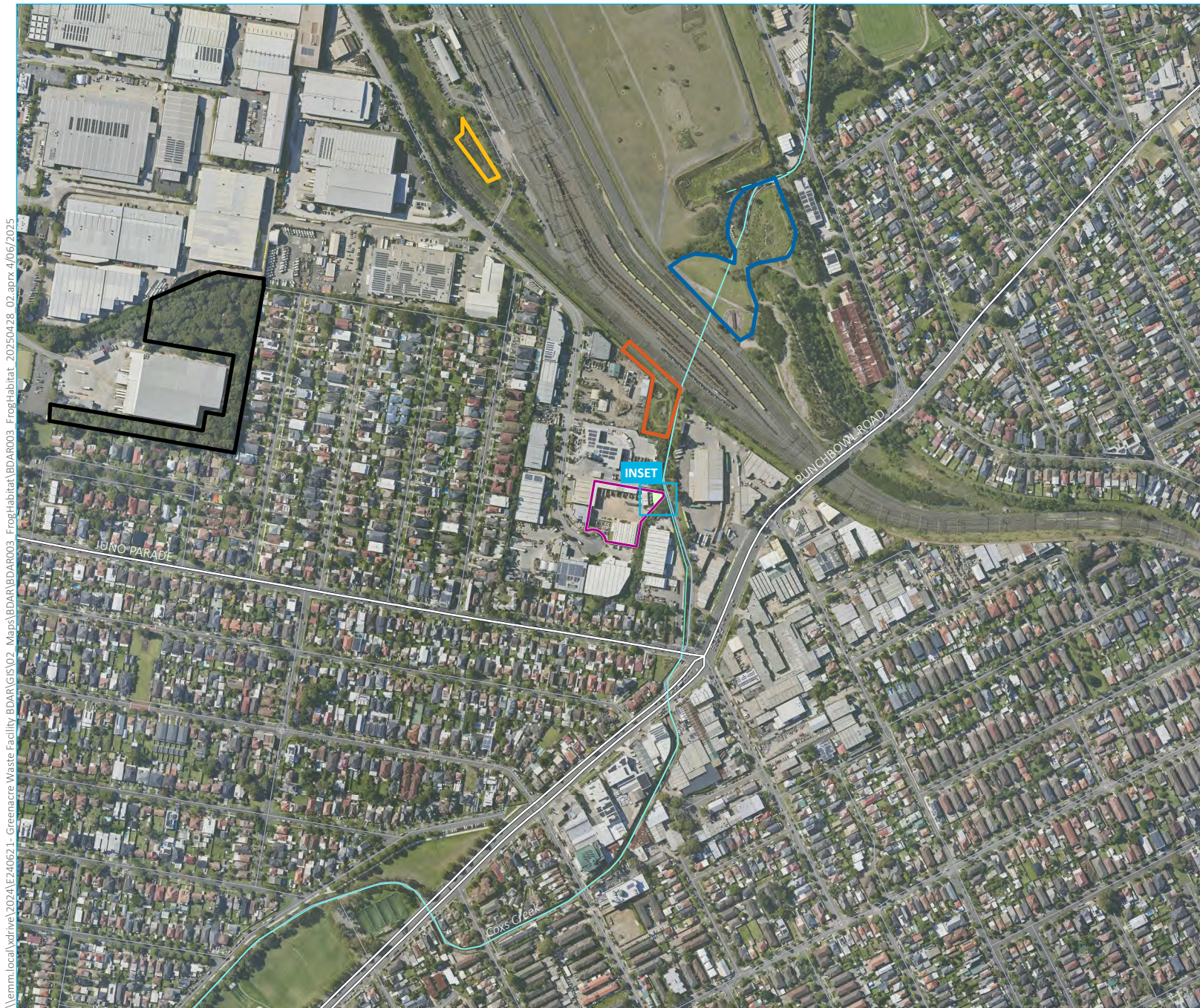
As discussed, Cox's Creek, adjacent to the subject land, has been converted to a canal system, entirely lacking a natural substrate, as shown in Photograph 2.1. During periods of low flow, the Cox's River consists of a reduced, uniform flow with sporadic aquatic vegetation. Riparian vegetation is largely absent and restricted to patches of retained and exotic trees or shrubs.

Remnant vegetation is present within Cox's Creek Reserve. This vegetation is utilised by the GGBF population in the locality where it provides species protection. Furthermore, the GGBF utilises several other features in the surrounding area, such as breeding habitat, shelter features, foraging habitat, movement corridors, and over-wintering habitat as outlined in the Green and Golden Bell Frog Key Population at Greenacre - Management Plan (DECC 2007).

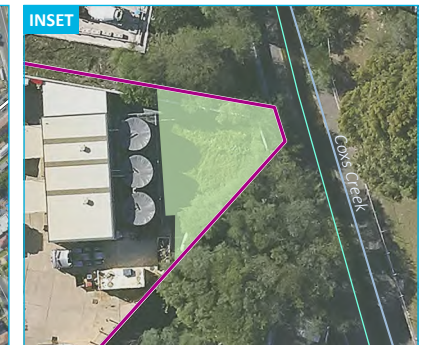
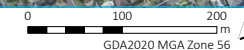
The Greenacre GGBF population has several identified threats inhibiting the growth of the population including loss of habitat, introduced predators (e.g. *Gambusia holbrooki*, *Vulpes vulpes*, *Felis catus*), disease, habitat degradation, water quality, small population size and anthropogenic climate change. These threats are discussed further in the management plan for the Greenacre GGBF Key Population (DECC 2007).

The GGBF habitat in the locality is shown on Figure 5.1.

\\emm.local\drive\2024\1E240621- Greenacre Waste Facility BDAR\GIS\02 Maps\BDAR\BDAR003 FrogHabitat 20250428 02.aprx 4/06/2025



Source: EMM (2025); DCSSS (2024); DPI (2013); MetroMap (2025)



- KEY**
- Greenacre waste facility
 - Conservation area
 - Green and Golden Bell Frog habitat
 - Intermodal GGBF frog pond
 - Juno Parade frog habitat- FATs GGBF conservation area
 - RailCorp frog pond
 - Cox's Creek Reserve
 - Strahler stream order
 - 1st order
 - 2nd order
 - Existing environment
 - Major road
 - Minor road

Green and Golden Bell Frog habitat

Greenacre Waste Facility
Biodiversity Development Assessment Report
Figure 5.1

5.2 Ecosystem credit species

Ecosystem credits species are threatened species that can be reliably predicted to use an area of land based on habitat surrogates. For the purposes of the BAM (DPIE 2020), ecosystem credit species are deemed to be offset through the habitat surrogates (PCTs) in which they occur.

As no PCTs occur within, nor adjacent to the subject land, and no PCTs will be impacted by the proposal, no ecosystem credit species apply to this assessment.

5.3 Species credit species

5.3.1 Candidate threatened species assessment

A candidate threatened species assessment in accordance with Steps 1 to 3 in Section 5.2 of the BAM (DPIE 2020) is provided in Table 5.1.

5.3.2 Expert report

In accordance with Step 3 in Section 5.2.3 of BAM (DPIE 2020), an expert report can determine the suitability of habitat within the subject land. An expert report on *Litoria aurea* (Green and Golden Bell Frog) has been prepared by Ross Wellington to support this assessment. This is provided in Appendix A.

Table 5.1 Candidate threatened species assessment

Step 1 – Identify threatened species for assessment		Step 2 – Assessment of habitat constraints and vagrant species		Step 3 – Identify candidate species for further assessment	
Scientific name	Common name	Habitat/geographic constraints	Constraint present in disturbance footprint?	Vagrant species?	Candidate species (yes/no) and rationale
Fauna					
<i>Litoria aurea</i>	Green and Golden Bell Frog	N/A	N/A	N/A	Yes. The Green and Golden Bell Frog population in Greenacre, is considered a Key Population in the <i>Draft Recovery Plan for Green and Golden Bell Frog Litoria aurea</i> (NSW DEC 2005). The GGBF is known to occur in the following habitat areas in Greenacre: • Juno Parade frog ponds or ‘Juno Parade Frog Habitat Area’. • NSW Ports frog ponds (formerly the Sydney Ports Corporation Intermodal Terminal). • RailCorp frog pond (formerly FreightCorp). • Cox’s Creek Reserve (Figure 5.1, DECC 2007). The GGBF population is known to traverse urban and industrial land, and along Cox’s Creek in the vicinity of these habitats (DECC 2007, AES 2025). Due to the green space on the subject land being open to Cox’s Creek, via gaps at the base of the fences, as shown in Photograph 4.2 and Photograph 4.3, the species may potentially have the ability to move through the green space, as part of its broader movement corridor (AES 2025). Applying the precautionary principle, the GGBF is considered likely to occur in the green space from time to time and is therefore a candidate species for the purposes of this SBDAR.

Part B

Impact assessment

7 Avoidance, minimisation, and mitigation measures on biodiversity values

7.1 Avoiding impacts on biodiversity values

The operating section of the subject land is void of native vegetation, being an existing industrial recycling facility, located within a highly industrialised and urbanised area of Greenacre. The operating section of the recycling facility does not provide habitat features for GGBF; however, individuals of the Greenacre population have the potential to traverse the site, or the green space area, via gaps at the base of the fence, open to Cox's Creek.

The construction and operation of the proposed waste facility, will be entirely located within the existing operating section of the facility, as shown on Figure 1.1. No new areas of potential GGBF habitat will be impacted.

The expert report (Appendix A) proposes that the green space will be retained and improved for habitat for GGBF, as per the conservation measures in the report. The proposed conservation measures, provided in Section 4 of the expert report, intend to maintain access for the GGBF to the habitat which is to be improved as part of these measures in the green space area in the Aussie Recycling facility. This access will be maintained through the existing perforations in the fence to Cox's Creek. Another fence will exclude frogs from entering the operational section of the facility from this area of habitat, via frog-proof fencing, thereby avoiding potential direct mortality of the GGBFs within the facility.

Whilst the current biodiversity values on the subject land are highly limited, the proposal will avoid direct impacts to the green space area, which provides the only suitable habitat for the GGBF. The conservation measures are designed to improve habitat in the green space area for any GGBFs moving through the site, while providing safer refuge along their movement corridor of Cox's Creek.

7.2 Minimising impacts on biodiversity values

Table 7.1 summarises the avoidance and minimisation measures incorporated into the Aussie Recycling existing and proposed measures to minimise the potential for impacts on biodiversity, related to the construction and operation of the Aussie Recycling facility.

Table 7.1 Impact avoidance and minimisation strategy

Potential impact	Action	Intended outcome	Timing	Responsibility
Mortality of GGBF individuals from vehicle strikes	Exclude potential GGBF individuals from entering the operational section of the facility, via frog proof fencing that isolates the improved habitat area from operational areas (see Section 7.3)(AES 2025).	Avoid potential GGBF mortalities from vehicle strikes.	Design Construction Operation (maintenance)	Aussie Recycling AES (measures) 4Pillars
Contaminated water being discharged from the facility, into Cox's Creek/the surrounding environment	All surface water is to be captured on the facility. No dirty surface water is to be discharged from the facility. Surface water to be reused on site and clean captured surface water should be utilised in the improved GGBF habitat area (AES 2025).	Minimise pollutant load and volume of surface water discharge from the site, into the green space, Cox's Creek, and the surrounding environment.	Design Construction Operation (ongoing)	Aussie Recycling

Potential impact	Action	Intended outcome	Timing	Responsibility
Contamination of soils	The operational part of the facility is completely covered in a concrete hardstand to prevent potential contamination into the soils and groundwater.	Avoid all potential contamination into the soils and groundwater.	Design Construction Operation (ongoing)	Aussie Recycling
Dust emission from construction and operation activities, polluting potential GGBF habitat.	All waste storage, handling and processing will occur in enclosed areas (receiving building, processing building and an enclosed conveyor connecting the two buildings).	Avoid, minimise, and mitigate dust emissions from the site.	Design Construction Operation (ongoing)	Aussie Recycling
Light pollution, interfering with GGBF behaviour.	All lights will face the facility and not the surrounding environment. Light shading filters or deflectors are to be used on existing and proposed new lights (AES 2025).	Avoid and minimise the effects of light pollution outside of the facility, and in the improved GGBF habitat area on the site.	Design Operation (ongoing)	Aussie Recycling

The above avoidance, minimisation and mitigation measures, during the design, construction, and operation phases are considered robust measures, to avoid impacts on biodiversity, as a result of the proposal, and operation of the facility.

7.3 Mitigation measures for biodiversity values

7.3.1 Green and Golden Bell Frog conservation measures

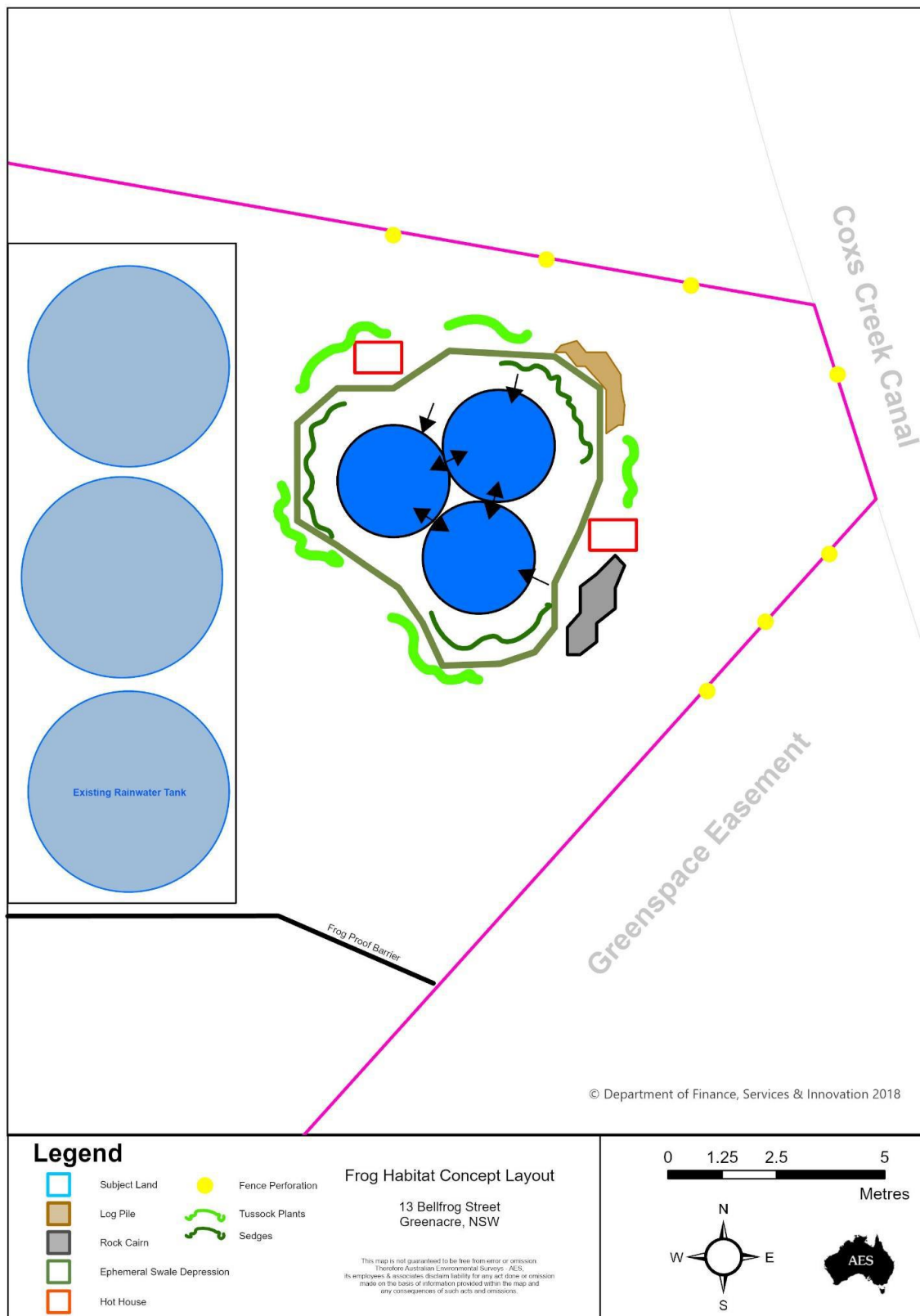
Conservation measures for the GGBF are proposed for the construction and operational stages. The conservation measures have been prepared by Ross Wellington of AES, who is a Green and Golden Bell Frog species expert, approved by the Secretary of the NSW DCCEW for BAM assessments. The proposed measures (from Appendix A) are:

- Plan, Design, Create and Landscape a node of GGBF habitat within the small triangular swale area of the subject land. This will include ponds, a broader swale of emergent macrophytes, tussock vegetation and some shelter/over-wintering features. It might also include some experimental frog chytrid attenuation features including a salinity attenuation pond and thermal 'hot-house' features. Pathogen attenuation that leads to active immunity of GGBF was first proposed in DEC (2005 – pp 35 & 39), and where salinity, elevated temperature and certain contaminants were identified as potential factors that might lead to acquisition of active immunity (AES 2025).
- Provide either rainwater and/or town water, supply to the habitat node area (AES 2025).
- Maintain all existing boundary barrier fence 'perforations' or create additional as necessary to facilitate GGBF movements to and from the proposed GGBF habitat node offset area. This should ideally include the maintenance (or enhancement) of connective links with the Cox's Creek culvert (NE corner), the vegetated easement along the SE boundary with AUSREO Metal Fabricators (that also borders Cox's Creek), and the north adjoining Heidelberg Materials Concrete plant with its partly vegetated area bordering Cox's Creek and its stormwater culvert and detention structure (AES 2025).
- Provide restrictive frog proof barriers internally on-site isolating the GGBF habitat node from operational areas so as to prevent GGBF entering the operational areas and beyond and otherwise result in mortality risks for vagrant GGBF (AES 2025).

- Establish a landscape management regime within the proposed GGBF habitat node area and identify / appoint an accountable person(s) with roles and responsibilities to evaluate trigger management actions. This might require induction of the delegated personnel and the preparation of a simple management manual/guide (AES 2025).
- The site's environmental officer should be trained in the identification of GGBF (visual and calls) and in procedures for moving any frog inadvertently found within the operational area to the GGBF habitat area within the site (AES 2025).
- A monitoring regime that identifies and reports any GGBF activity and communicates this information re GGBF internally to other staff and visitors should be established. This might include such things as erecting GGBF Frog ID posters, preparing awareness raising items for any internal newsletters/flyers/online and perhaps for even wider advertising of the company environmental operational ethos (AES 2025).
- Monitoring should be undertaken to determine the efficacy of the conservation measures and to adaptively adjust/maintain the habitat features as necessary. A functional evaluation and associated adaptive management of the GGBF habitat area should be undertaken for five years. This is ideally envisaged as being undertaken by a suitably upskilled Aussie Skips employee who has been provided basic training (see above). This might be further supported by affiliation and perhaps through provision of basic support to the FATs group already undertaking GGBF related conservation initiatives in the immediate locality (AES 2025).
- Develop a communications strategy to liaise with and maintain communications with other stakeholders/neighbours and participate in and/or provide for dissemination of information to and/or from other stakeholders with GGBF population elements locally at Greenacre (but specifically including FATs, Strathfield Council and the Departments GGBF accountable officer) (AES 2025).
- Consider participation in FATs coordinated 'working bees' at the adjacent Greenacre GGBF habitat ponds and possible provision of regulated access to the proposed GGBF habitat area on-site (AES 2025).
- Participate in other promotional opportunities and activities as they arise e.g. in-kind, in principal and/or via other support for community groups including grant applications to undertake GGBF related activities, e.g. Pacific National have a Community Grant Program that might be able to provide funds for other offsite GGBF conservation measures see - <https://forms.office.com/r/ivPp6NP1VH> and that Aussie Skips could promote or consider augmenting (AES 2025).

A concept layout shown in Figure 7.1.

These conservation measures, proposed by the GGBF species expert Ross Wellington, are in alignment with the conservation priorities and measures in the *Draft Management Plan for the Green and Golden Bell Frog Key Population at Greenacre* (DECC 2007). Furthermore, the conservation measures, in combination with the operational mitigation measures of the project, are likely to increase the suitability of habitat within the green space area which will be free of significant threats (NSW DEC 2005). Therefore, these measures are considered likely to result in beneficial outcomes for the Greenacre GGBF Key Population.



Source: AES (2025)

Figure 7.1 Frog habitat concept layout

8 Prescribed impacts

An assessment of prescribed impacts is provided in Table 8.1.

Table 8.1 Prescribed impact assessment

Feature	Present	Description and location	Potential impact	Threatened species or community dependent on feature
Karst, caves, crevices, cliffs, rocks or other geological features of significance	No	None present	None.	None
Human-made structures	Yes	Operational buildings	Disturbance to potential dispersal habitat.	GGBF
Non-native vegetation	Yes	Exotic grass swale outside of the impact area	No impacts will occur in the green space, which is proposed to be improved as GGBF habitat.	GGBF
Habitat connectivity	Yes	Operational hardstand areas	Disturbance to potential dispersal habitat.	GGBF
Waterbodies, water quality and hydrological processes	Yes	Cox's Creek directly adjacent to the subject land	Contaminated discharge into Cox's Creek. This will be avoided by capturing all surface water and reusing it on the site. Clean captured surface water is to be utilised in the improved GGBF habitat area. No dirty surface water is to be discharged from the facility.	GGBF
Wind farm development	No	N/A	No wind farm proposed on site.	N/A
Vehicle strikes	Yes	In operational area of the subject land	Increased/changes to traffic movement in potential dispersal habitat. However, GGBFs will be excluded from entering the operational section of the facility, via frog proof fencing in the improved habitat area, and the perimeter fence.	GGBF

8.1 Potential direct, indirect and prescribed impacts

In the absence of any management measures to avoid, minimise, or mitigate the potential impacts, the following in impacts may occur:

- Direct impacts:
 - Mortality of GGBF by vehicle strike, within the facility.
- Indirect impacts:
 - Contaminated water being discharged from the facility, into the green space, Cox's Creek, and/or the surrounding environment.
 - Contamination of soils, affecting biota throughout the food chain of the GGBF, and direct contact of contaminants.

- Dust emission from construction and operation activities, polluting potential GGBF habitat.
- Intensified lighting, resulting in disturbing fauna species, and potentially modifying behaviour.
- Increased dust levels, potentially modifying behaviour.

Comprehensive mitigation measures will be implemented to avoid, minimise, and mitigate potential direct, indirect, and prescribed impacts, during the design, construction, and ongoing operation of the facility. These will include ongoing conservation measures for GGBF (see Section 7.3.1).

Direct and indirect impacts have been avoided and/or minimised through the project design, mitigation measures, operational methods, and conservation measures.

8.2 Impacts requiring offset

This section provides an assessment of the impacts requiring offsetting in accordance with Section 9.2 of BAM (DPIE 2020).

8.2.1 Impacts on native vegetation

No native vegetation is located within the subject land. No impacts on native vegetation will occur as a result of the proposal.

8.2.2 Impacts on threatened species

One threatened species, the GGBF (BC Act – Endangered; EPBC Act Vulnerable) is known to utilise the adjacent Cox’s Creek canal. The measures described in the *Green and Golden Bell Frog Site Assessment and Conservation Measures* (Appendix A) will be implemented as part of the proposal, to avoid, minimise, and mitigate impacts to the GGBF. The conservation measures are designed to improve potential habitat, and provide opportunities for GGBF’s shelter, attenuate chytrid fungus, and be excluded from the operational section of the facility, avoiding mortality from vehicle strikes.

No direct impacts to any threatened species are expected occur as a result of the project; and the project is anticipated to have beneficial outcomes for the GGBF. Therefore, no species credits are required for the project.

8.3 Impacts not requiring offsets

In accordance with Section 9.2.1 of BAM (DPIE 2020), impacts on vegetation zones and threatened species habitat do not require offsets where:

- a vegetation zone representative of a critically endangered or endangered ecological community has a vegetation integrity score less than 15
- a vegetation zone representative of a vulnerable ecological community and/or threatened species habitat has a vegetation integrity score less than 17
- a vegetation zone that is not listed has a vegetation integrity score less than 20.

No native vegetation communities occur within the subject land, with the green space area entirely comprising of exotic flora species. The proposal intends to improve the potential habitat of GGBFs known along Cox’s Creek, and the Greenacre area. Therefore, no impacts upon vegetation nor threatened species habitat require offsets. Therefore, there is no requirement for ecosystem or species credits for the project.

9 Serious and Irreversible Impacts

9.1 Absence of SALLs

No SALL impact entities will be impacted within on adjacent to the subject land.

10 Biodiversity credits

No credits are required as a result of the proposal.

11 Assessment of other relevant biodiversity legislation

11.1 Environment Protection and Biodiversity Conservation Act 1999

This chapter provides an assessment of the project's impacts specific to species and communities listed under the EPBC Act. The Protected Matter Search Tool (PMST) results are provided in Appendix B. A likelihood of occurrence assessment for protected matters is presented in Section 11.1.1.

11.1.1 Likelihood of occurrence assessment

i Threatened species

The PMST and/or BioNet predicted that 101 fauna species and 39 flora species listed under the EPBC Act could occur, and/or have been recorded within a 10 km radius of the subject land. The likelihood of occurrence for these species have been assessed in Table 11.1 for fauna and Table 11.2 for flora species.

Table 11.1 **Likelihood of occurrence of EPBC listed fauna species**

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
Amphibians					
<i>Heleioporus australiacus</i>	Giant Burrowing Frog	V	PMST	0	Absent. Within the Sydney region, the Giant Burrowing Frog is restricted to Hawkesbury Sandstone.
<i>Litoria aurea</i>	Green and Golden Bell Frog	V	BioNet, PMST	91	Likely. The species is known to occur in Cox's Creek and the Greenacre area and has the potential to pass through the green space within the subject land, via gaps at the base of the fence, as part of the movement corridor.
<i>Mixophyes australis</i>	Stuttering Frog	V	PMST	0	Absent. There are only three known populations of Stuttering Frog in the Sydney Region, being the Watagans, the Gosford Area, and the Macquarie Pass National Park.
Bats					
<i>Chalinolobus dwyeri</i>	Large-eared Pied Bat	V	BioNet, PMST	2	Absent. The existing facility is a new, well-built facility under 10 years old. Opportunities for microbats to roost in built structures were not observed.
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V	BioNet, PMST	873	Absent. The species may fly over the site, however suitable roosting or foraging habitat are absent.
Birds					
<i>Actitis hypoleucos</i>	Common Sandpiper	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Anous stolidus</i>	Common Noddy	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Anthochaera phrygia</i>	Regent Honeyeater	CE	BioNet	8	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Aphelocephala leucopsis</i>	Southern Whiteface	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Apus pacificus</i>	Fork-tailed Swift	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Ardena carneipes</i>	Flesh-footed Shearwater	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Ardenna grisea</i>	Sooty Shearwater	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	Mi	BioNet	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Ardenna tenuirostris</i>	Short-tailed Shearwater	Mi	BioNet	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Arenaria interpres</i>	Ruddy Turnstone	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Botaurus poiciloptilus</i>	Australasian Bittern	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	Mi	BioNet	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris canutus</i>	Red Knot	E, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris ferruginea</i>	Curlew Sandpiper	CE, Mi	BioNet	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris melanotos</i>	Pectoral Sandpiper	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris pugnax</i>	Ruff	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris ruficollis</i>	Red-necked Stint	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calidris tenuirostris</i>	Great Knot	CE, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calonectris leucomelas</i>	Streaked Shearwater	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Calyptorhynchus lathami lathami</i>	Glossy Black-Cockatoo	V	BioNet, PMST	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Charadrius bicinctus</i>	Double-banded Plover	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Charadrius leschenaultii</i>	Greater Sand-plover	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Charadrius mongolus</i>	Lesser Sand-plover	E, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Climacteris picumnus victoriae</i>	Brown Treecreeper (eastern subspecies)	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Cuculus optatus</i>	Oriental Cuckoo	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Dasyornis brachypterus</i>	Eastern Bristlebird	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Diomedea antipodensis</i>	Antipodean Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Diomedea antipodensis gibsoni</i>	Gibson's Albatross	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Diomedea epomophora</i>	Southern Royal Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Diomedea exulans</i>	Wandering Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Diomedea sanfordi</i>	Northern Royal Albatross	E, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Erythrotriorchis radiatus</i>	Red Goshawk	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Falco hypoleucos</i>	Grey Falcon	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Fregata ariel</i>	Lesser Frigatebird	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Fregata minor</i>	Great Frigatebird	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Fregetta grallaria grallaria</i>	White-bellied Storm-petrel	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Gallinago hardwickii</i>	Latham's Snipe	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Gallinago megala</i>	Swinhoe's snipe	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Gallinago stenura</i>	Pin-tailed snipe	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Grantiella picta</i>	Painted Honeyeater	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Hirundapus caudacutus</i>	White-throated Needletail	V, Mi	BioNet, PMST	6	Absent. Suitable habitat is absent and is unlikely to occur.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Lathamus discolor</i>	Swift Parrot	CE	BioNet, PMST	4	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Limosa lapponica</i>	Bar-tailed Godwit	Mi	BioNet, PMST	4	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Limosa lapponica baueri</i>	Bar-tailed Godwit (baueri)	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Limosa limosa</i>	Black-tailed Godwit	Mi	BioNet, PMST	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Macronectes giganteus</i>	Southern Giant Petrel	E, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Macronectes halli</i>	Northern Giant-Petrel	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Melanodryas cucullata cucullata</i>	Hooded Robin (south-eastern form)	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Motacilla flava</i>	Western Yellow Wagtail	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Neophema chrysogaster</i>	Orange-bellied Parrot	CE	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Neophema chrysostoma</i>	Blue-winged Parrot	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Numenius madagascariensis</i>	Eastern Curlew	CE, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Numenius minutus</i>	Little Curlew	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Numenius phaeopus</i>	Whimbrel	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Pachyptila turtur subantarctica</i>	Fairy Prion (southern)	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Pandion haliaetus</i>	Osprey	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Phaethon lepturus</i>	White-tailed Tropicbird	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Pluvialis fulva</i>	Pacific Golden Plover	Mi	BioNet, PMST	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Pluvialis squatarola</i>	Grey Plover	Mi	BioNet	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Pterodroma leucoptera leucoptera</i>	Gould's Petrel	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Pterodroma neglecta neglecta</i>	Kermadec Petrel (western)	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Pycnoptilus floccosus</i>	Pilotbird	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Rostratula australis</i>	Australian Painted Snipe	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Stagonopleura guttata</i>	Diamond Firetail	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Sternula albifrons</i>	Little Tern	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Sternula nereis nereis</i>	Australian Fairy Tern	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche bulleri</i>	Buller's Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche bulleri platei</i>	Pacific Albatross	V	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche carteri</i>	Indian Yellow-nosed Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche cauta</i>	Shy Albatross	E, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche eremita</i>	Chatham Albatross	E, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche impavida</i>	Campbell Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche melanophris</i>	Black-browed Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalassarche salvini</i>	Salvin's Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Thalassarche steadi</i>	White-capped Albatross	V, Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Thalasseus bergii</i>	Crested Tern	Mi	BioNet	1	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Tringa brevipes</i>	Grey-tailed Tattler	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Tringa nebularia</i>	Common Greenshank	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
<i>Tringa stagnatilis</i>	Marsh Sandpiper	Mi	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur.
Invertebrates					
<i>Pommerhelix duralensis</i>	Dural Land Snail	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur. Forested habitat is absent within and surrounding the subject site.
Marsupials					
<i>Dasyurus maculatus maculatus</i> (SE mainland population)	Spotted-tailed Quoll	E	PMST	0	Absent. Suitable habitat is absent and is unlikely to occur. Foraging, nesting habitat, and connectivity for this species are absent.
<i>Isodon obesulus obesulus</i> (eastern)	Southern Brown Bandicoot (eastern)	E	PMST	0	Absent. Dense ground cover and connectivity for this species are absent.
<i>Notamacropus parma</i>	Parma Wallaby	V	PMST	0	Absent. Suitable habitat and connectivity for this species are absent.
<i>Petauroides volans</i>	Southern Greater Glider	E	PMST	0	Absent. Suitable habitat and connectivity for this species are absent.
<i>Petaurus australis australis</i>	Yellow-bellied Glider	V	PMST	0	Absent. Foraging, nesting habitat, and connectivity are absent.
<i>Petrogale penicillata</i>	Brush-tailed Rock-wallaby	V	PMST	0	Absent. Suitable habitat and connectivity for this species are absent.
<i>Phascolarctos cinereus</i>	Koala	E	BioNet	2	Absent. Suitable habitat and connectivity for this species are absent.
<i>Phascolarctos cinereus</i> (combined populations of Qld, NSW and the ACT)	Koala (combined populations of Qld, NSW and the ACT)	E	PMST	0	Absent. Suitable habitat and connectivity for this species are absent.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
Reptiles					
<i>Caretta caretta</i>	Loggerhead Turtle	E, Mi	PMST	0	Absent. Suitable habitat is absent on the Subject land. The species is unlikely to inhabit Cox's Creek.
<i>Chelonia mydas</i>	Green Turtle	V, Mi	PMST	0	Absent. Suitable habitat is absent on the Subject land. The species is unlikely to inhabit Cox's Creek.
<i>Dermochelys coriacea</i>	Leatherback Turtle	E, Mi	PMST	0	Absent. Suitable habitat is absent on the Subject land. The species is unlikely to inhabit Cox's Creek.
<i>Eretmochelys imbricata</i>	Hawksbill Turtle	V, Mi	PMST	0	Absent. Suitable habitat is absent on the Subject land. The species is unlikely to inhabit Cox's Creek.
<i>Hoplocephalus bungaroides</i>	Broad-headed Snake	V	PMST	0	Absent. Suitable habitat is absent on the Subject land.
<i>Natator depressus</i>	Flatback Turtle	Mi	PMST	0	Absent. Suitable habitat is absent on the Subject land. The species is unlikely to inhabit Cox's Creek.
Rodents					
<i>Pseudomys novaehollandiae</i>	New Holland Mouse	V	PMST	0	Absent. Suitable habitat of woodlands, forests with a heath understorey, vegetated sand dunes, and open heathlands are absent.

Table 11.2 **Likelihood of occurrence of EPBC listed flora species**

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
Climbers					
<i>Cynanchum elegans</i>	White-flowered Wax Plant	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
Herbs and Forbs					
<i>Deyeuxia appressa</i>	Bent Grass	E	BioNet, PMST	1	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Isotoma fluviatilis subsp. fluviatilis</i>	Swamp Isotome	Ex	BioNet	1	Absent. This species is listed extinct.
<i>Persicaria elatior</i>	Tall Knotweed	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Thesium australe</i>	Austral Toadflax	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
Orchids					
<i>Caladenia tessellata</i>	Thick Lip Spider Orchid	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Cryptostylis hunteriana</i>	Leafless Tongue Orchid	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Genoplesium baueri</i>	Bauer's Midge Orchid	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Pterostylis saxicola</i>	Sydney Plains Greenhood	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Rhizanthella slateri</i>	Eastern Australian Underground Orchid	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Thelymitra kangaloonica</i>	Kangaloon Sun Orchid	CE	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
Shrubs					
<i>Acacia baueri</i> subsp. <i>aspera</i>	Rough-leaved Wattle	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Acacia bynoeana</i>	Bynoe's Wattle	V	BioNet, PMST	3	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Acacia pubescens</i>	Downy Wattle	V	BioNet	1159	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Acacia terminalis</i> subsp. <i>Eastern Sydney</i>	Sunshine Wattle	E	BioNet	2	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Acacia terminalis</i> subsp. <i>Eastern Sydney</i> (G.P.Phillips 126)	Sunshine Wattle (Sydney region)	E	PMST	2	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Allocasuarina glareicola</i>	Keyac Wattle	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Darwinia biflora</i>	Biflora Darwinia	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Grevillea beadleana</i>	Beadle's Grevillea	E	BioNet	1	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Grevillea parviflora</i> subsp. <i>parviflora</i>	Small-flower Grevillea	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Hibbertia puberula</i> subsp. <i>glabrescens</i>	Glabrous Guinea Flower	CE	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Lasiopetalum joyceae</i>	Joycea's Velvet Bush	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Leucopogon exolasius</i>	Woronora Beard-heath	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Melaleuca deanei</i>	Deane's Paperbark	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Persoonia hirsuta</i>	Hairy Geebung	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Persoonia nutans</i>	Nodding Geebung	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Pimelea curviflora</i> var. <i>curviflora</i>	Curved Rice-flower	V	BioNet, PMST	1	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Pimelea spicata</i>	Spiked Rice-flower	E	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Pomaderris brunnea</i>	Brown Pomaderris	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Prostanthera densa</i>	Villous Mint-bush	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Pultenaea aristata</i>	Prickly Bush-pea	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Rhodamnia rubescens</i>	Scrub Turpentine	CE	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.

Scientific name	Common name	EPBC Status	Source	BioNet Records (2025)	Likelihood of occurrence and justification
<i>Rhodomyrtus psidioides</i>	Native Guava	CE	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Tetradlea juncea</i>	Black-eyed Susan	V	BioNet	8	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
Trees					
<i>Eucalyptus camfieldii</i>	Camfield's Stringybark	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	V	BioNet	2	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Eucalyptus scoparia</i>	Wallangarra White Gum	V	BioNet	1	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Melaleuca biconvexa</i>	Biconvex Paperbark	V	PMST	0	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.
<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	V	BioNet, PMST	8	Absent. The disturbed green patch comprises of exotic weed species, and one overhanging native plant being <i>Acacia saligna</i> . Habitat for this plant is absent.

11.1.2 Significant impact assessments

i Green and Golden Bell Frog

The Green and Golden Bell Frog population in Greenacre is considered a Key Population in the *Draft Recovery Plan for Green and Golden Bell Frog Litoria aurea* (NSW DEC 2005), and an important population in the *Significant impact guidelines for the vulnerable Green and Golden Bell Frog* (DEWHA 2009). The GGBF is the only threatened species considered likely to occur within the subject land. This likelihood is based on:

- the known Key Population in Greenacre (NSW DEC 2005)
- the GGBF known to traverse across urban and industrial land, between Cox's Creek Reserve, the Juniper Parade Frog ponds, along Cox's Creek, and the NSW Port frog pond (Figure 5.1) (AES 2025)
- the occurrence of 91 BioNet records of the species, within 10 km of the subject land (NSW DCCEEW 2025):
 - one BioNet of the GGBF occurs within the subject land, dated to 15 August 1999, with a location accuracy of 100 m (-33.90786701 151.0742263, Sighting Key: SSXK0004170B) (NSW DCCEEW 2025). In 1999, the site was the 'old Brick Pit site', being an old quarry, seasonally filled with water, which was a known habitat area for the GGBF (DECC 2007). The site has since been infilled and developed as an industrial estate. Figure 11.1 shows the Old Brick Pit site, with the current 2025 cadastre overlaid. The cadastre shows the current lots of the industrial estate, and Bell Frog Street. The subject land forms part of the current industrial estate.



Figure 11.1 Old Brick Pit site, Greenacre, on 1 January 2000, with the current 2025 cadastre overlaid

Given that the species is listed vulnerable under the Commonwealth EBPC Act, the species is a '*matter of national environmental significance*' (Comm. DoE 2013, DEWHA 2009), and a significant impact assessment of the proposed project on the species is required (DEWHA 2009).

The impact assessment has been undertaken in accordance with the 'Significant impact guidelines for the vulnerable Green and Golden Bell Frog' (*Litoria aurea*) (DEWHA 2009) and the 'Matters of National Environmental Significance Significant impact guidelines 1.1' (Comm. DoE 2013). The Significant impact guidelines for the vulnerable GGBF is a policy statement designed to help determine whether a proposed action is likely to have a significant impact on the GGBF. If the action will have or is likely to have a significant impact on this matter of national environmental significance, the action will require referral to, and approval from the Commonwealth Minister for the Environment and Water. The assessment has been provided below in Table 11.3.

Table 11.3 Green and Golden Bell Frog vulnerable species impact assessment

Vulnerable species significant impact criteria	Assessment
Lead to a long-term decrease in the size of an important population of a species	According to the <i>Significant impact guidelines for the GGBF</i>, all current populations of GGBF are regarded as an ‘important population’, including the Greenacre population (DEWHA 2009). An ‘important population is a population that is necessary for a species’ long-term survival and recovery (DoE 2013). The Greenacre GGBF population, located in industrial and residential areas of the upper Cooks River Catchment, is also considered a Key Population, in the <i>Draft Recovery Plan for Green and Golden Bell Frog Litoria aurea</i> (NSW DEC 2005). A Management Plan was prepared for this Key Population, by the Department of Environment and Climate Change (DECC) in 2007 (DECC 2007). The Management Plan states that the population consists of three population satellites, at or around the following sites (DECC 2007): • Juno Parade former brick pit site. – This site is now the industrial estate, on which the subject land occurs. – Frog ponds managed by the FATS, have been established, which are now called the ‘Juno Parade frog ponds’, or ‘Juno Parade Frog Habitat Area’. • Old Enfield Marshalling Yards. – This site includes the RailCorp frog pond (formerly FreightCorp) and the NSW Ports frog ponds (formerly the Sydney Ports Corporation Intermodal Terminal). • Cox’s Creek Reserve. These are all displayed on Figure 5.1. The Greenacre GGBF Population is a relatively small, remnant population, of a larger population that formerly stretched across the various wetlands associated with the Georges River and Cooks River sub-catchments of Botany Bay (DECC 2007). The Greenacre Population is one of only eight remaining Key Populations in the Sydney Region, all of which are generally isolated from each other by the major developments that have occurred within the greater Sydney area (DECC 2007). Despite being within 10 km of the Sydney Olympic Park population, the Greenacre population is considered separate, due to the lack of connectivity and being in different catchments (DEWHA 2009). Mark and re-capture monitoring surveys by Arthur White of the FATS in 2006 indicated that the population comprised of at least 58 adult GGBF’s (DECC 2007). Arthur maintains that the Juno Parade frog pond site is fundamental to the long-term survival of the whole Greenacre population (DECC 2007). The Greenacre Management Plan states that due to the current small population size, it is vulnerable to stochastic events, that otherwise, with a more robust population size, might be overcome (DECC 2007). The fragmented nature and tenuous interconnection between habitat are contributing threats to the population (DECC 2007). The Management Plan state that opportunities to create, maintain and enhance interconnection should be fully explored and are a priority (DECC 2007). The current Aussie Recycling facility has the potential for GGBFs to cross overland, or via gaps at the base of the fence in the green space, open to Cox’s Creek, into the operational section of the facility. This current state of operating risks GGBFs having direct mortalities from vehicle strikes, or being negatively affected by dust, or polluted surface water run-off. The proposal is designed to avoid, minimise, and mitigate these direct and indirect impacts, by: • excluding GGBFs from the operating section of the facility, by installing frog proof fencing to prevent the movement of GGBF into operational areas within the site and retaining existing fencing on the site perimeter to facilitate movement outside of operational areas on site (AES 2025). • constructing frog habitat in the green space area, featuring a frog ponds, hot houses, and shelter (rocks, logs, sedges, and tussocks) (AES 2025) • installing hot-houses, which may help attenuate frog chytrid fungus (AES 2025)

Vulnerable species significant impact criteria	Assessment
	- the green space habitat area is likely to create habitat for the species and enhance connection along Cox's Creek (AES 2025) - capturing all surface water in the facility - all waste storage, handling and processing will occur in enclosed areas (receival building, processing building and an enclosed conveyor connecting the two buildings). The conservation measures in the proposal are designed to support the size of the Key Population. As stated in the Greenacre GGBF Management Plan, "opportunities to create, maintain and enhance interconnection should be fully explored and are a priority". Therefore, the project is considered to likely be beneficial to the Greenacre Key Population and not lead to a long-term decrease in the size of an important population of GGBF.
Reduce the area of occupancy of an important population	The proposal, including the conservation measures, intends to exclude GGBF's from the operational section of the facility, to avoid vehicle strikes and potential detrimental impacts from coming into contact with dust or waste material in the recycling facility. While the GGBF has the potential to traverse the facility when moving between habitat, the operational section of the facility does not provide any habitat for the species, and excluding the species would be beneficial. The proposed conservation area is considered likely to improve and create beneficial habitat for the species and improve connectivity along Cox's Creek. The proposed GGBF habitat area: - will include ponds, a broader swale of emergent macrophytes, tussock vegetation and some shelter/over-wintering features (AES 2025) - will include some experimental frog chytrid attenuation features including a salinity attenuation pond and thermal 'hot-house' features (AES 2025). Pathogen attenuation that leads to active immunity of GGBF was first proposed in DEC (2005 – pp 35 & 39), and where salinity, elevated temperature and certain contaminants were identified as potential factors that might lead to acquisition of active immunity (AES 2025). The proposal is considered likely to have a beneficial effect on the GGBF, by both excluding the species from the operational section of the Aussie Recycling facility, improving connectivity along Cox's Creek, and creating beneficial habitat for the species. Given the lack of habitat in the operational section of the facility, and the proposed conservation measures, the proposal is not considered to reduce the area of occupancy of this important population.
Fragment an existing important population into two or more populations	The current important/key Greenacre GGBF population occurs in a highly urbanised and industrialised area of Greenacre. The Management Plan states that the population consists of three population satellites, at or around the following sites (DECC 2007): - Juno Parade former brick pit site. - This site is now the industrial estate, on which the subject land occurs. - Frog ponds managed by the FATS, have been established, which are now called the 'Juno Parade frog ponds', or 'Juno Parade Frog Habitat Area'. - Old Enfield Marshalling Yards. - This site includes the RailCorp frog pond (formerly FreightCorp) and the NSW Ports frog ponds (formerly the Sydney Ports Corporation Intermodal Terminal). - Cox's Creek Reserve. Whilst the population currently has tenuous interconnection between habitat (DECC 2007), the population persists despite these conditions (AES 2025). The GGBF Management Plan states that opportunities to create, maintain and enhance interconnection should be fully explored and are a priority (DECC 2007). The proposed conservation measures intend to implement the recommendations in the GGBF Management Plan (DECC 2007), by creating, maintaining, and enhancing connectivity for the species along Cox's Creek. Therefore, the proposal is considered unlikely to fragment the existing important population into two or more populations.

Vulnerable species significant impact criteria	Assessment
Adversely affect habitat critical to the survival of a species	<i>'Habitat critical to the survival of a species'</i> refers to areas that are necessary: • for activities such as foraging, breeding, roosting, or dispersal • for the long-term maintenance of the species or ecological community • to maintain genetic diversity and long-term evolutionary development, or • for the reintroduction of populations or recovery of the species or ecological community (DoE 2013). The operational part of the facility, being a concrete hard-stand, with warehouses, moving and stationary vehicles and machinery, does not provide any habitat critical to the survival of the GGBF, as defined above (DoE 2013). Cox's Creek, in the vicinity of the habitat areas (Juno Parade frog ponds, NSW Ports frog ponds, and Cox's Creek Reserve), is a known movement corridor for the species. Therefore, Cox's Creek in the vicinity of these known habitats is considered <i>'habitat critical to the survival of'</i> the species, as dispersal habitat. While GGBFs have not been confirmed to occupy nor move through the green space at the back of the facility, applying the precautionary principle, the species is considered to have the potential to move through the green space, via the gaps at the base of the fence open to Cox's Creek, as part of its broader movement corridor (AES 2025). The conservation measures propose perforations at the base of the fence, and improved habitat features for the GGBF (AES 2025). The proposal may improve the potential foraging, breeding, roosting, and/or dispersal habitat for the species, along the critical dispersal habitat of Cox's Creek. The proposal, if implemented, would not adversely affect habitat critical to the survival of the species, in the operational section of the facility, and would implement robust mitigation measures for direct and indirect impacts to the species, as detailed in Section 7, and the conservation measures (AES 2025), and the project proposal. The conservation measures are considered likely to improve potential dispersal habitat, along the critical dispersal habitat of Cox's Creek.
Disrupt the breeding cycle of an important population	Breeding habitat is absent in the subject land, within either the operational section of the facility, or the green space area. The proposed conservation measures would construct habitat ponds, including ponds, a broader swale of emergent macrophytes, tussock vegetation and some shelter/over-wintering feature (AES 2025). These measures align with the conservation priorities and measures in the <i>Draft Management Plan for the GGBF Key Population at Greenacre</i> (DECC 2007), which states that <i>"opportunities to create, maintain and enhance interconnection should be fully explored and are a priority"</i> (DECC 2007). Mark and re-capture monitoring surveys by Arthur White of the FATS in 2006 indicated that the population comprised of at least 58 adult GGBFs (DECC 2007). DECC (2007) maintains that <i>"the Juno Parade frog pond site is fundamental to the long-term survival of the whole Greenacre population"</i>. Given the success and importance of the Juno Parade frog pond site, if implemented, the proposal has the potential of creating another pond breeding habitat, with sheltering habitat (rocks, logs, rushes, and tussocks) for the Greenacre GGBF important/Key Population, along the critical dispersal habitat of Cox's Creek. The pond, in combination with 'hot-houses', may also attenuate frog chytrid fungus for the species (AES 2025). Therefore, the proposal is considered unlikely to adversely impact the breeding cycle of the important population and has the potential to create breeding habitat for the important population. The man-made and FATS managed Juno Parade frog pond site, demonstrated its importance to the long-term survival of the whole Greenacre population. The proposal has the potential to improve breeding habitat and opportunities for the important population.

Vulnerable species significant impact criteria	Assessment
Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	While the GGBF has the potential to traverse the facility when moving between habitat, the operational section of the facility does not provide any habitat for the species, and excluding the species would be beneficial to avoid potential vehicle strikes, and potential detrimental impacts from coming into contact with dust or waste material in the recycling facility. The proposed upgrades and operations of the recycling activities are entirely located in the current operational section of the facility, avoiding the green space area, in which GGBF habitat is proposed to be created, improved, and maintained (AES 2025). The proposed conservation area is considered likely to improve and create beneficial habitat for the species and improve connectivity along Cox's Creek. The proposed GGBF habitat area: • will include ponds, a broader swale of emergent macrophytes, tussock vegetation and some shelter/over-wintering features (AES 2025) • will include some experimental frog chytrid attenuation features including a salinity attenuation pond and thermal 'hot-house' features (AES 2025). Pathogen attenuation that leads to active immunity of GGBF was first proposed in DEC (2005 – pp 35 & 39), and where salinity, elevated temperature and certain contaminants were identified as potential factors that might lead to acquisition of active immunity (AES 2025). Therefore, the proposal would not modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline. These proposed conservation measures are in alignment with the Management Plan for the GGBF Key Population. The Juno Parade frog pond, is a man-made and maintained frog pond, used as habitat for the GGBF (DECC 2007). This frog pond is considered fundamental to the long-term survival of the whole Greenacre population (DECC 2007). Therefore, creating and maintaining frog pond habitat for the GGBF beside their movement corridor, has the potential to improve the long-term survival of the species.
Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	The operational section of the facility is void of native vegetation, being a concrete hardstand, with warehouses and recycling infrastructure. The green space area is currently entirely comprised of exotic vegetation, including the exotic grasses Kikuyu and Paspalum, and the weeds Fleabane, Purpletop, Crofton Weed, and Blackberry Nightshade (Section 4.1.1). The proposed conservation measures include planting native tussocks and sedges, as part of the frog ponds, and would introduce native plants, to the current entirely exotic vegetation. Given that the operational upgrades are entirely located in the operational section, and fauna habitat is generally absent in the facility, the project is unlikely to result in the introduction of invasive fauna species in the GGBF's habitat. Chytrid fungus (<i>Batrachochytrium dendrobatidis</i>) is an infectious disease-causing fungus and is addressed in the assessment of the disease criteria below.

Vulnerable species significant impact criteria	Assessment
Introduce disease that may cause the species to decline, or	Amphibian chytrid fungus (<i>Batrachochytrium dendrobatidis</i>) is emerging as possibly the single biggest threat to the species and is the most detrimental known pathogen to the Greenacre GGBF population (DECCW 2009, DECC 2007). Chytrid fungus causes the highly infectious disease, Chytridiomycosis (DECCW 2009). Infection of amphibians with chytrid fungus, is a Key Threatening Process, at the Commonwealth and state level (DECC 2007). The proposed conservation area will include experimental frog chytrid attenuation features including a salinity attenuation pond and thermal ‘hot-house’ features (AES 2025). Pathogen attenuation that leads to active immunity of GGBF was first proposed in DEC (2005 – pp 35 & 39), and where salinity, elevated temperature and certain contaminants were identified as potential factors that might lead to acquisition of active immunity (AES 2025). Hygiene protocols are recommended to be implemented in accordance with Commonwealth frog hygiene protocols, in <i>Hygiene protocols for the control of diseases in Australian frogs</i> (Murray et al. 2011). As the conservation measures will include ‘hot houses’, which may attenuate frog chytrid fungus, and implement the Commonwealth frog hygiene protocols, the proposal is considered unlikely to introduce disease that may cause the species to decline.
Interfere substantially with the recovery of the species.	Overall, the proposal alongside the proposed conservation measures is expected to improve the recovery of the GGBF key/important population based on: • the operational part of the proposal being entirely located in the current facility, excluding frogs to avoid direct mortalities, and detrimental effects from dust or waste • the proposal includes robust mitigation measures, to mitigate impacts to the GGBF, such as collecting all surface water in the facility, avoiding contaminating Cox’s Creek • implementing GGBF conservation measures, prepared by the GGBF species expert Ross Wellington of AES (AES 2025). These measures are considered likely to have beneficial effects on the GGBF Greenacre population • the addition of frog ponds, adjacent to the Cox’s Creek movement corridor of the species, may provide long-term benefits for the species, supporting the species survival. Monitoring of the frog ponds, including GGBF presence and use, are proposed as part of the proposal, to assess the effectiveness of the conservation measures. Based on all the above in combination, the proposal is likely to support the Greenacre GGBF key/important population, and unlikely to detrimentally interfere with the recovery of the species.

12 Conclusion

This SBDAR has been prepared in accordance with BAM (DPIE 2020), biodiversity-related SEARs issued by DPHI and the associated agency-specific assessment requirements.

No plant community types (PCTs) exist within the subject land.

One threatened entity; GGBF is known to occur near the subject land. An expert report has been prepared in accordance with Section 5 of the BAM. This expert report, alongside this SBDAR, concluded that no GGBF will be directly or indirectly impacted by the proposal, and it is considered that their dispersal habitat will be enhanced with the conservation measures proposed in the Green and Golden Bell Frog Site Assessment and Conservation Measures report, prepared by AES 2025.

The report has therefore concluded that biodiversity and species credits are not required to offset the impacts of the development.

This SBDAR has also considered impacts on MNES the EPBC Act; a significant impact assessment was undertaken for GGBF. It was concluded that the proposal will not result in a significant impact to GGBF.

References

4Pillars Environmental Consulting 2024, *Aussie Recycling Greenacre Soil Processing Upgrades Scoping Report for SSD*, 20211030AUS-A-BFS-Scoping Report Version: DRAFT (V1.0) Published: 23 January 2024, Prepared for: Aussie Skips Recycling Pty Ltd.

4Pillars Environmental Consulting 2025, Aussie Recycling proposed layout, '20250403 Proposed Layout_shared', received 3 April 2025.

AES (Ross Wellington) 2025, *Green and Golden Bell Frog Site Assessment and Conservation Measures*, 13 Bellfrog Street Greenacre, NSW, March 2025. Australian Environmental Surveys.

Comm. DCCEEW 2025, EPBC Act Protected Matters Report. Generated from a 10 km buffer of the Aussie Recycling Facility, at 13 Bellfrog Street, Greenacre, on 25 February 2025.

Comm. DEWHA 2009, *Significant impact guidelines for the vulnerable green and golden bell frog (Litoria aurea)*, Commonwealth Department of the Environment, Water, Heritage and the Arts.

Comm. DoE 2013, *Matters of National Environmental Significance, Significant impact guidelines 1.1, Environment Protection and Biodiversity Conservation Act 1999*. Commonwealth Department of the Environment.

DEC 2004, *Threatened Biodiversity Survey and Assessment: Guidelines for Development and Activities*, Department of the Environment and Conservation.

DEC 2005. *Draft Recovery Plan for the Green and Golden Bell Frog (Litoria aurea)*, NSW Department of Environment and Conservation.

DECC 2007. *The Green and Golden Bell Frog Key Populations at Greenacre – Management Plan*. Department of Environment and Climate Change.

DECCW 2009. *Statement of Intent 2: Infection of frogs by amphibian chytrid causing the disease chytridiomycosis*. Department of Environment, Climate Change and Water. Available via: <https://nswdpe.intersearch.com.au/nswdpejspui/bitstream/1/11829/1/frogs-infection-amphibian-chytrid-disease-chytridiomycosis.pdf>

DECC 2009, *Threatened Species Survey and Assessment Guidelines: Field Survey Methods for Fauna Amphibians*, Department of Environment and Climate Change.

DPIE 2020, *Biodiversity Assessment Method*, Department of Planning, Industry and Environment.

Murray, K., Skerratt, L., Marantelli, G., Berger, L., Hunter, D., Mahony, M. and Hines, H. 2011. *Hygiene protocols for the control of diseases in Australian frogs*. James Cook University. A report for the Commonwealth Department of Sustainability, Environment, Water, Population and Communities.

NSW DCCEEW 2024, NSW State Vegetation Type Map. Release C2.0.M2.1 (November 2024). Available via NSW SEED: <https://datasets.seed.nsw.gov.au/dataset/nsw-state-vegetation-type-map>

NSW DCCEEW 2025, Threatened Biodiversity Profile Data Collection, NSW BioNet Atlas database. Available via: <http://www.bionet.nsw.gov.au/>

Appendix A

Green And Golden Bell Frog Site Assessment and Conservation
Measures, 13 Bellfrog Street Greenacre, NSW



GREEN AND GOLDEN BELL FROG SITE
ASSESSMENT AND CONSERVATION MEASURES
13 BELLFROG STREET GREENACRE, NSW
MARCH 2025



Ross Wellington

AUSTRALIAN ENVIRONMENTAL SURVEYS Dewurra Ramornie NSW

Table of Contents

1. Introduction and Background	1
2. Method.....	3
3. Results	4
4. Discussion	6
4.1 Operational Risk Factors	6
4.2 Proposed Conservation Measures Commitment	8
5. References	16
Appendix	18

Figures

Figure 1	Locality Map	10
Figure 2	Strategic GGBF Habitat Map	11
Figure 3	Site Detail	12
Figure 4	GGBF Habitat Concept Landscape Design Layout	13
Figure 5	Frog Hot House Concept	14
Figure 6b	Frog Proof Fence Design	15
Figure 6a	Green and Golden Bell Frog Swale Pond Habitat Concept	15

1. Introduction and Background

Aussie Skips Recycling Pty Ltd (Aussie Recycling) is proposing to upgrade the existing waste facility located at 13 Bellfrog Street, Greenacre (Lot 15/DP1133214) (the 'site').

The site is currently used for the receipt, storage and export of soils, aggregates, virgin excavated natural material (VENM) and other similar waste materials. The site is currently permitted to receive an annual combined throughput of waste material of 199,000 tonnes (t) in any 12-month period.

Aussie Recycling is proposing to lodge a new State Significant Development (SSD) application (SSD-67497708) seeking approval to construct and operate a materials recovery facility (MRF) on the site. The proposal includes minor demolition, alterations to existing site components, installation of a fixed waste processing plant and site infrastructure, construction of environmental conservation measures, and the ongoing operation of the MRF.

The MRF will have two main buildings, a waste receival building and a processing building. These will be connected by an enclosed conveyor. There will be an open yard between these buildings to allow truck access for delivery of waste and dispatch of recovered products and residual waste.

Given the sites' location, existing approvals and existing EPA licensing conditions, the proposal was deemed by the department to require a BDAR to accompany the application. Preliminary ecological investigations had revealed zero native vegetation on-site and none of the other BDAR thresholds appeared to be triggered. Nevertheless, the known proximity of an important population of the Green and Golden Bell Frog (GGBF) was considered to be subjected to prescribed impacts. This is likely due to its former presence on or adjacent to the site during the Punchbowl Brick Pit infill operations (of which the subject land forms a part) followed by the overall infill sites subsequent subdivision. Prescribed or other indirect impacts were hence perceived to have potential to have detrimental impact on the local GGBF population.

During the development of the National Recovery Plan for the GGBF the Greenacre Upper Cooks River locality, incorporating part of Strathfield LGA and a small bordering area of what was Bankstown (now Canterbury Bankstown) LGA, was identified as harboring an important (Key) population of the GGBF (DEC 2005). Actioned from the Recovery Plan (RP) was the development of Key Population Management Plans (KPMP) for the species at the various sites where remnant GGBF populations persisted (43 were identified overall across the species formerly vast distribution within NSW and NE Victoria). The Greenacre KPMP (DECC 2011) was thus developed as a recovery planning action and

arose out of a consequential facilitated workshop of all the landowner stakeholder land managers within the relevant Greenacre area.

Thus, the Greenacre GGBF KP MP (along with other such plans elsewhere) became or has been used as a de facto planning instrument to guide consent authorities when determining developments in such areas and when they are considered to have some potential to impact GGBF.

Developments at Greenacre that were in progress or occurred soon after the Recovery Plan was released for public comment, included the infill and subdivision of the former ‘Punchbowl Brick Pit’ area (Hannas Development - incorporated the subject land) and the Greenacre Intermodal Logistics Centre (ILC) that incorporates a large area of the former Enfield Marshalling yards (adjacent to the subject land).

Outcomes of these developments included the conditioned provision of GGBF habitat as an offset for the Hannas ‘brickpit’ subdivision and the implementation of the Greenacre GGBF KPMP by NSW Ports within the lands that they manage. Meanwhile, Strathfield Council has continued to manage its Cox Creek Reserve and has an agreement with the NSW Frog and Tadpole Study Group (FATs) to undertake habitat management and monitoring the Greenacre GGBF habitat node formerly established by Hannas but later relinquished to the care and control of Strathfield Council. Another important stakeholder includes Pacific National (and its various consortia partners) who manage the former FreightCorp facilities within the encompassing NSW Ports jurisdiction.

Managing consultants 4 Pillars Pty Ltd engaged AES (Ross Wellington) to facilitate GGBF outcomes and prepare this document to outline the commitments and revised approach to be carried out as part of this development proposal and address concerns regarding possible prescribed impacts. EMM have been engaged to undertake the small area BDAR that the DCCEEW have agreed is an acceptable assessment approach to accompany the development proposal.

So, whilst the proponent is not conceding presence of the GGBF within the small ‘greenspace’ area of the subject land, it is accepted that GGBF do likely occupy and utilise, from time to time, areas immediately adjacent to the subject land. This might include the small areas of vegetation forming a connectivity linkage bordering the Cocks Creek canal.

2. Method

A review of the Greenacre GGBF KPMP (DECC 2011) and GGBF Best Practice Habitat Guide (DECC 2008) was undertaken. Consultation was undertaken with relevant Strathfield Council, DCCEEW personnel and other relevant stakeholders that were readily identified. This included NSW Ports, Pacific National and NSW Frog and Tadpole Study Group (FATs).

The subject land was inspected twice. The first time to evaluate habitat potential and logistical details of the greenspace area itself and the second time in more detail to assist with the planning of GGBF habitat node being considered as a conservation measure for the proposal.

A desktop overview was then undertaken to re-evaluate the sites strategic position and any changes to GGBF connectivity potential in an otherwise ecologically fraught local landscape.

Consideration was thus given to various conservation measures that include possible provision of GGBF habitat elements and enhanced GGBF connectivity opportunities where possible between the subject land and neighbouring tenures.

Other GGBF risk mitigation considerations were also made to formulate a suite of conservation and/or mitigation measures that might be appropriate to include in an ‘offset package’ for any perceived as ‘prescribed’ or other indirect impact of the proposal.

No biodiversity credit obligation is likely to be generated from any BAM calculations as a result of direct proposal impacts. Consent or determining authorities may still apply BC Regulation clause 6.1(2)(b) to require from a proponent an undertaking or commitment for the provision of other ‘conservation measures’ and these can be taken into account as part of a consent or determining authority approval condition consideration. This report outlines the approach taken to provide a reasonable and meaningful conservation outcome to these.

3. Results

Following site inspections, a review of the Greenacre GGBF KP MP and, the undertaking of a desktop overview, several conclusions were made with respect to the site's strategic relevance, any potential indirect impacts likely from the proposal and a number of measures that might be readily applied within the greenspace area on-site, as well as other initiatives that might be considered for undertaking.

Informal consultations with relevant stakeholders were then undertaken to discuss the measures being considered along with any further suggestions or outcomes from some of the ongoing GGBF actions or observations made by other relevant local stakeholders.

NSW Ports – Environment Manager Bryan Beudeker showed interest in the potential for other landowners undertaking GGBF conservation initiatives as this likely enhanced their own GGBF conservation initiatives that they already are obligated to undertake. The NSW Ports Greenacre site has a management plan for their site and in their own GGBF habitat area have several ponds in place. It was noted that a gravid female was observed in the current season (2024/2025) and that they had commissioned a researcher to Dr Anthony Waddle to trial some simple 'hot houses'. These have been shown to potentially provide an attenuating microhabitat that affords some protection against frog chytrid.

Pacific National – Site Manager John Comerford was aware of the GGBF occurrence within existing detention structures. The occurrence of GGBF at that site had been previously recorded from the site since its construction (DEC 2005; DECC 2011) and GGBF proliferation there had been thought initially to possibly be the result of certain contaminants exposed at that time (ca 1995) and which provided some attenuation to frog chytrid. Most recently it was indicated that there had been a GGBF observed during inclement weather just prior to Christmas 2024 at that site.

FATs (NSW) – Arthur White indicated that the FATs had an agreement with Strathfield Council regarding the GGBF ponds that were ceded to Councils care and control following completion of the Hannas Punchbowl Brickpit infill development. He indicated that GGBF have been continuously present at these ponds but in low numbers. That FATs had undertaken refurbishment and upgrades to these habitat swales that included weed management and the placement of 'sided' ponds that provide GGBF breeding habitat that is inaccessible to Brown-stripe Marsh Frogs that appear to be significant vectors of frog chytrid. FATs have two of these ponds assigned special tasks of providing a saline attenuation pond and a separate pond to which tadpoles or detected egg masses are relocated to and separate from the main pond.

Strathfield Council (SC) - Maxx Liong Environmental Projects and Biosecurity Officer was contacted and provided with an outline of the various conservation measures proposed and that were earlier verbally described and explained. Maxx indicated that Council had

an agreement with FATs regarding the management of the Greenacre Ponds (former Hannas Punchbowl Brickpit infill offset ponds), now owned by SC. At the time of writing Strathfield Council had not formally responded to the follow up email reiterating the intended conservation measures that had been discussed verbally earlier.

Heidelberg Materials – Greenacre Concrete kindly provided access to view the rear of their neighbouring property and forms the adjoining boundary component.

AUSREO – Greenacre Metal Fabrications is another adjoining neighbour of Aussie Skips that owns/manages the vegetated easement boundary with the subject land. Ongoing liaison with this neighbour will be pursued as part of the proposed conservation measures undertaking.

4. Discussion

It is considered unlikely that Aussie Skips Recyclers at Greenacre will have a significant detrimental effect on the Threatened Green and Golden Bell Frog (GGBF) population at Greenacre.

The greenspace swale area of the site has little habitat value in its current state but the existing barrier walls basal perforations do provide an existing connectivity for GGBF to enter the site. Currently, migrating GGBF from other Greenacre GGBF breeding locations could enter the swale area and then enter operational areas of the Aussie Skips industrial complex and from there potentially reach the public roads beyond. Thus, whilst the site is currently only likely to be incidentally used in this way by dispersing animals seeking new habitat there could be mortality incidents were they to do so. It is not known whether this has actually occurred since the site became operational.

The barrier wall perforations could be readily occluded, and this would prevent any GGBF impacts from what would be exploratory incidental migrations. Alternatively, a node of GGBF habitat could be established in the green space swale area and hence provide a positive outcome for GGBF were they to enter and colonise the created habitat features provided. This would be a logical option to take as it would provide positive benefits to the GGBF in the locality.

There are however various fundamental components of the sites existing and proposed to be modified operations that require consideration.

4.1 Operational Risk Factors

These include:

- A. the potential for excessive extraneous light falling in the proposed GGBF habitat node or elsewhere on potential GGBF habitat values that are adjacent to the subject land. Lighting matters will be addressed via the provision of light shading filters or deflectors on any relevant existing or proposes new lighting to deflect or diffuse light from the GGBF habitat area.
- B. Current operations are dust generating as a result of processing waste, which is largely excavated material, and handled in the open yard. The proposed waste facility would store, handle and process all waste within the waste receival building, where processing and the connecting conveyor will be enclosed. As such, dust emissions from the site are expected to decrease as a result of the proposal. It is expected that airborne dust concentrations from the site will be regulated through the development approval and environment protection licence. Therefore, perceptions regarding dust generation having

some indirect or prescribed impact on GGBF are likely benign given the proposal changes.

- C. Water Flows - stormwater and other runoff from the subject land and proposal area are addressed in the Water, Soils and Flooding Report (Tooker & Associates 2025). This finds that "In summary, the proposed works will have a beneficial impact on the existing site drainage system capacity by removing a significant volume of runoff for water reuse on the site. Also, the water quality which may leave the site will be significantly improved by reducing the pollutant load in runoff. The volume of water discharged from the site and the pollutant load would be significantly reduced due to the reuse of runoff water on the site." Captured clean (rooftop) stormwater might be beneficially utilised for some of the proposed GGBF conservation measures identified herein.
- D. The sites' location is in proximity to a known GGBF breeding area in Bell Frog Street as well as adjacent to a culvert (Cox's Creek), a recognised GGBF movement corridor. Consequently, inadvertent mortality could be caused if stray GGBF dispersing from the breeding site(s) within the Greenacre locality were to enter Aussie Skips current operational areas and the public roadways beyond. This is currently possible but would be prevented as part of the current proposal via provision of frog barriers that prevent GGBF entering these operational areas or beyond, whilst facilitating entry and use of the proposed to be constructed GGBF frog habitat node. Frog barrier fencing can be achieved via structural walls and also where necessary via well maintained frog proof fencing.

Measures outlined that mitigate potential lighting issues and the development related enclosure of dust generating operations addresses most of the possible prescribed impacts envisaged. The water management initiatives outlined similarly address water quality and runoff flow regime matters which also addresses this as another potential indirect and/or prescribed impact that the consent authority might have had as a consideration. These potential impacts are addressed here and herein with the additional commitment to provide a GGBF habitat node also providing a meaningful offset. This proposed initiative positioned along the boundary of a watercourse GGBF connectivity link and that also facilitates access and habitat values for use by GGBF should be favourably considered. This valuable 'conservation measure' also meets the objectives of the Upper Cooks River/Greenacre GGBF Key Population Management plan (DECC 2007) that underpins the only comprehensive GGBF conservation strategy that has been formulated and is outlined within (DEC 2005).

4.2 Proposed Conservation Measures Commitment

- Plan, Design, Create and Landscape a node of GGBF habitat within the small triangular swale area of the subject land. This will include ponds, a broader swale of emergent macrophytes, tussock vegetation and some shelter/over-wintering features. It might also include some experimental frog chytrid attenuation features including a salinity attenuation pond and thermal ‘hot house’ features. Pathogen attenuation that leads to active immunity of GGBF was first proposed in DEC (2005 – pp 35 & 39), and where salinity, elevated temperature and certain contaminants were identified as potential factors that might lead to acquisition of active immunity.
- Provide either rainwater and/or town water, supply to the habitat node area.
- Maintain all existing boundary barrier fence ‘perforations’ or create additional ones as necessary to facilitate GGBF movements to and from the proposed GGBF habitat node offset area. This should ideally include the maintenance (or enhancement) of connective links with the Cox’s Creek culvert (NE corner), the vegetated easement along the SE boundary with AUSREO Metal Fabricators (that also borders Cox’s Creek), and the north adjoining Heidelberg Materials Concrete plant with its partly vegetated area bordering Cox’s Creek and its stormwater culvert and detention structure.
- Provide restrictive frog proof barriers internally on-site isolating the GGBF habitat node from operational areas of Aussie Skips so as to prevent GGBF entering the operational areas and beyond and otherwise result in mortality risks for vagrant GGBF (see Figure 6b).
- Establish a landscape management regime within the proposed GGBF habitat node area and identify/appoint an accountable person(s) with roles and responsibilities to evaluate trigger management actions. This might require induction of the delegated personnel and the preparation of a simple management manual/guide.
- The site’s environmental officer should be trained in the identification of GGBF (visual and calls) and in procedures for moving any frog inadvertently found within the operational area to the GGBF habitat area within the site.
- A monitoring regime that identifies and reports any GGBF activity and communicates this information re GGBF internally to other staff and visitors should be established. This might include such things as erecting GGBF Frog ID posters, preparing awareness raising items for any internal newsletters/flyers/online and perhaps for even wider advertising of the company environmental operational ethos.
- Monitoring should be undertaken to determine the efficacy of the conservation measures and to adaptively adjust/maintain the habitat features as necessary. A functional evaluation and associated adaptive management of the GGBF habitat

area should be undertaken for 5 years. This is ideally envisaged as being undertaken by a suitably upskilled Aussie Skips employee who has been provided basic training (see above). This might be further supported by affiliation and perhaps through provision of basic support to the FATs group already undertaking GGBF related conservation initiatives in the immediate locality.

- Develop a communications strategy to liaise with and maintain communications with other stakeholders/neighbours and participate in and/or provide for dissemination of information to and/or from other stakeholders with GGBF population elements locally at Greenacre (but specifically including FATs, Strathfield Council and the Departments GGBF accountable officer).
- Consider participation in FATs coordinated ‘working bees’ at the adjacent Greenacre GGBF habitat ponds and possible provision of regulated access to the proposed GGBF habitat area on-site.
- Participate in other promotional opportunities and activities as they arise eg in-kind, in principal and/or via other support for community groups including grant applications to undertake GGBF related activities, eg Pacific National have a Community Grant Program that might be able to provide funds for other offsite GGBF conservation measures see - <https://forms.office.com/r/ivPp6NP1VH> and that Aussie Skips could promote or even consider augmenting.

This collection of beneficial measures is herein proposed to form part of the proposal going forward and thus provide a suite of conservation measures that forms part of a commitment by the proponent to offset any of the perceived indirect or prescribed impacts on GGBF from the proposal.

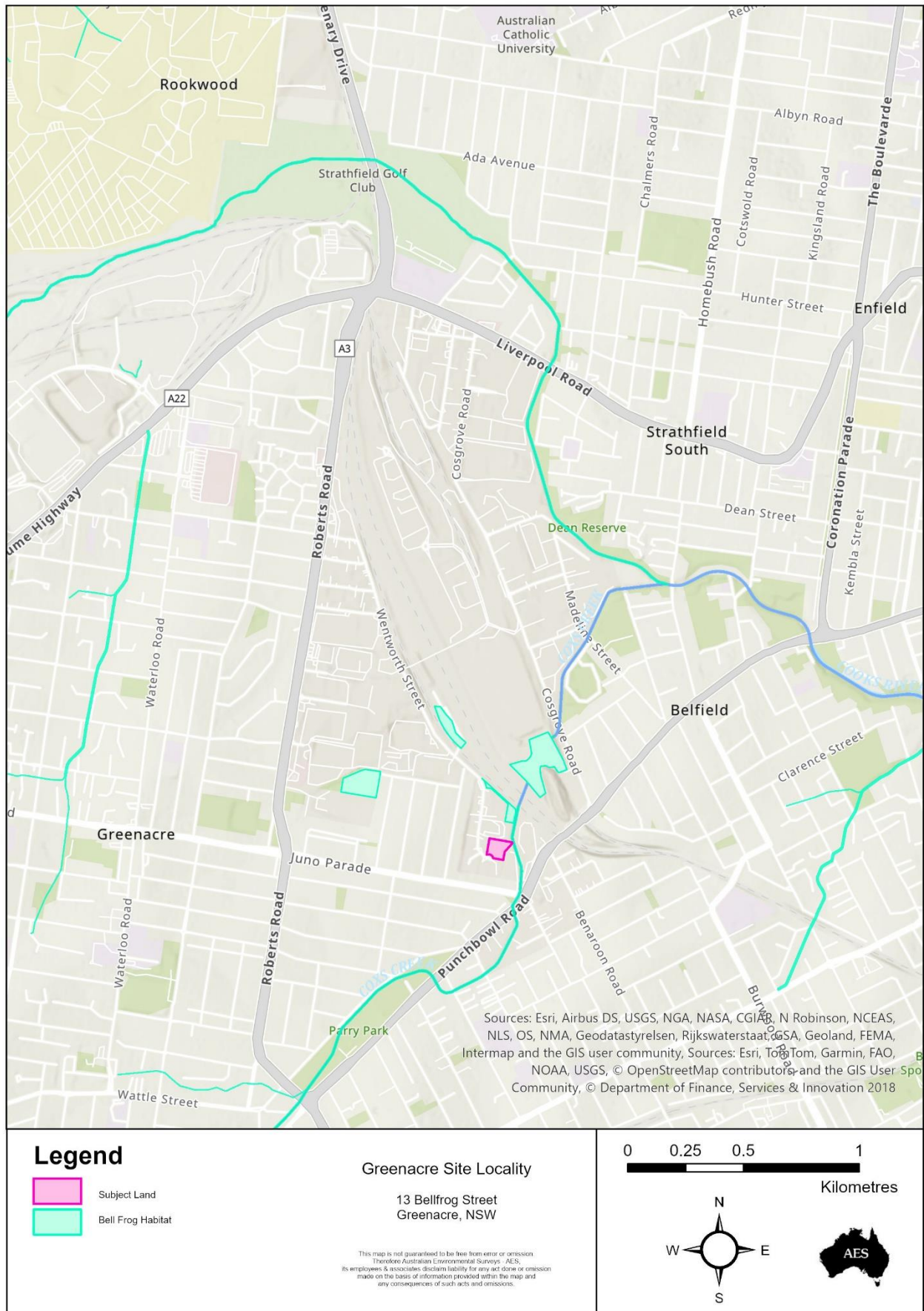


Figure 1 Locality Map

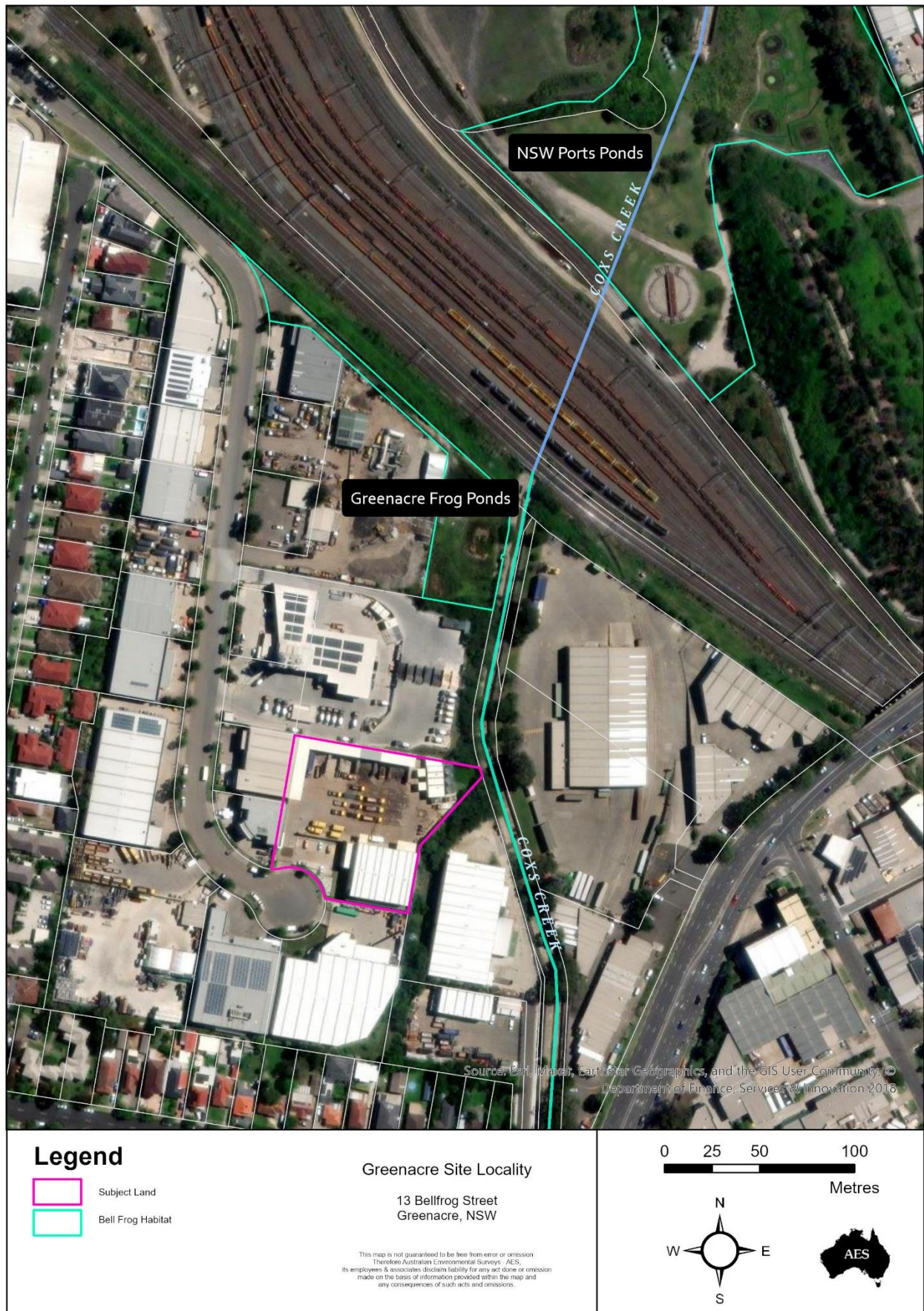


Figure 2 Strategic GGBF Habitat Map

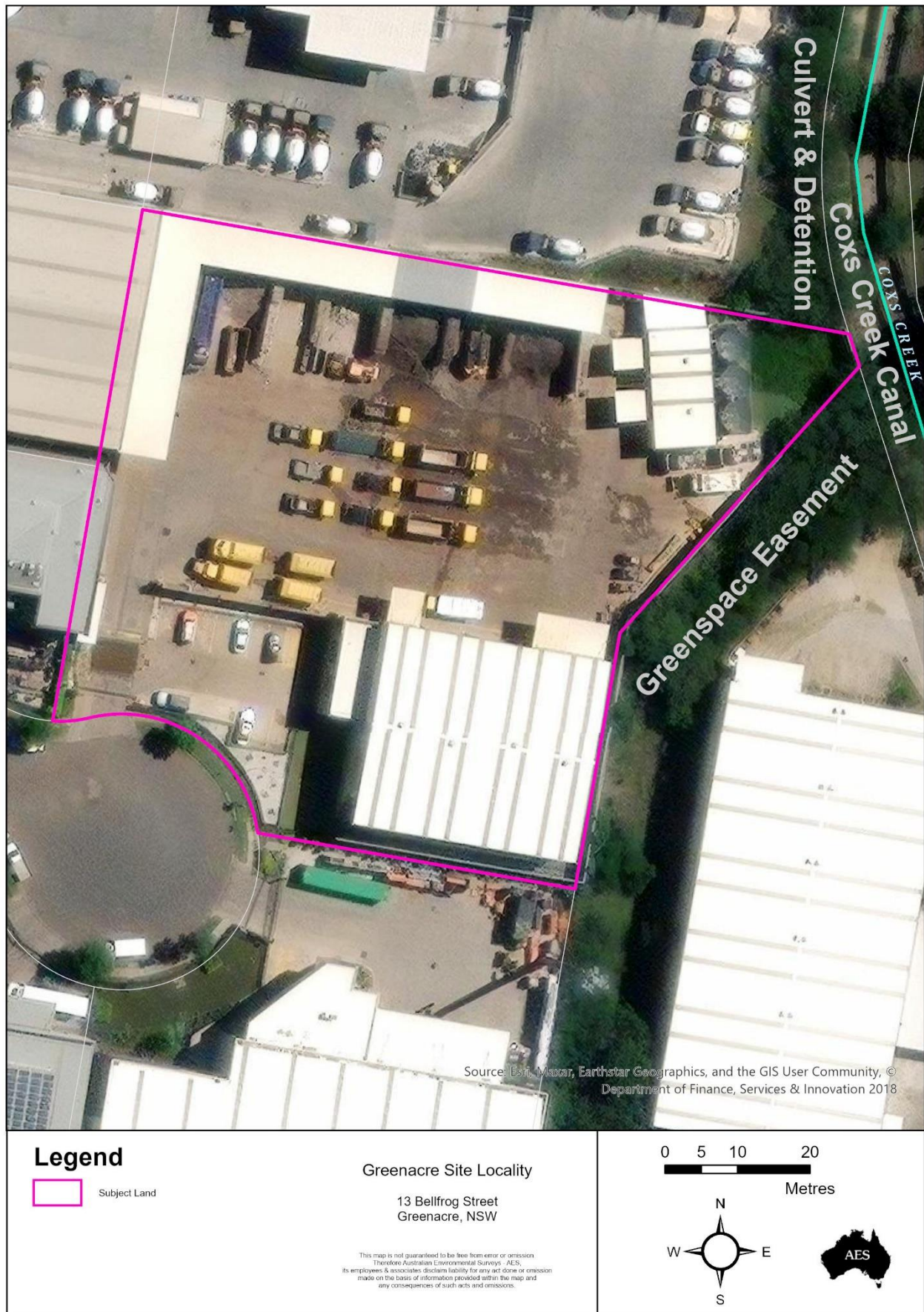


Figure 3 Site Detail

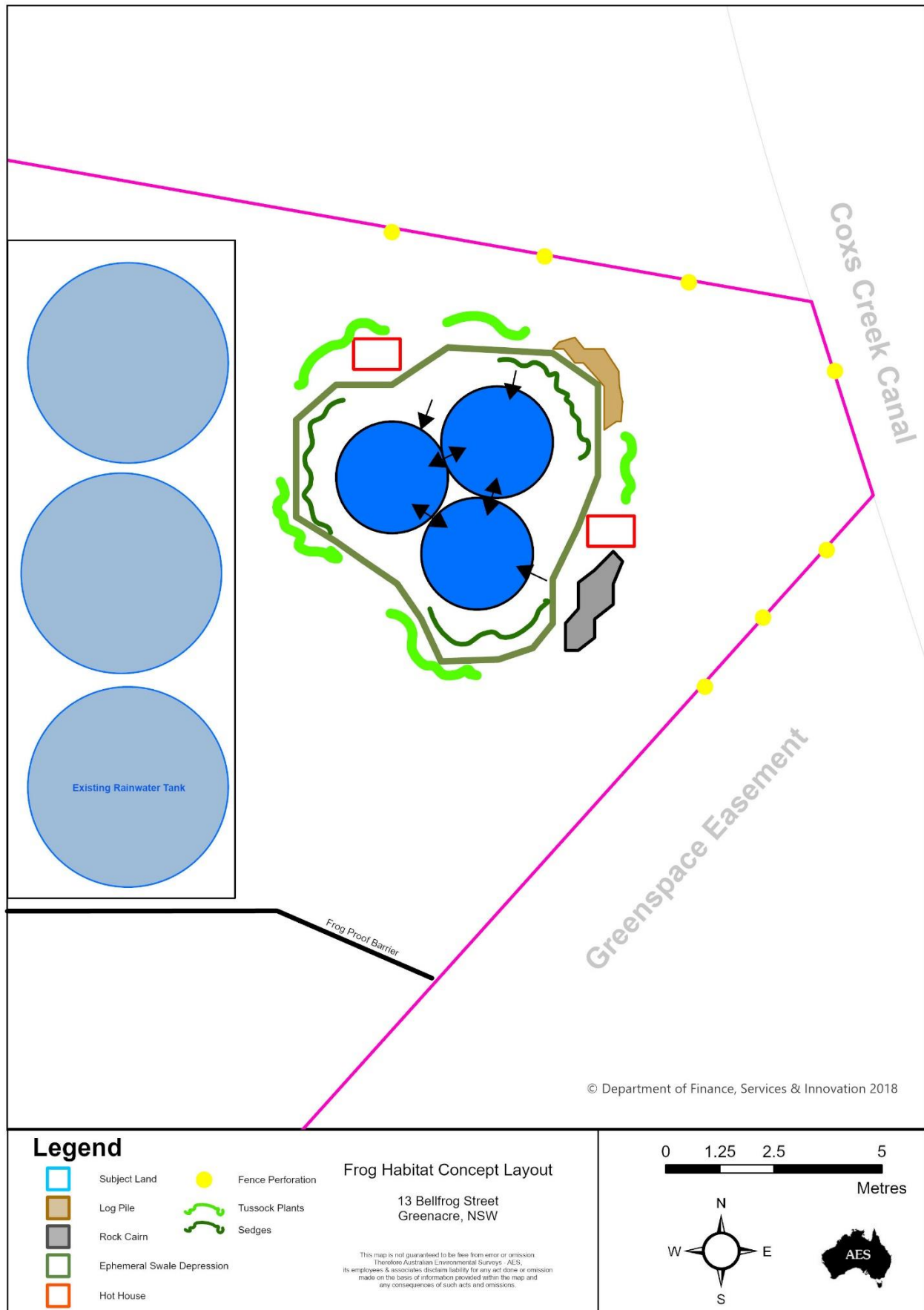


Figure 4 GGBF Habitat Concept Landscape Design Layout



Photos courtesy A. Waddle

Figure 5 Frog Hot House Concept – small shade house with brick stack



Figure 6a Green and Golden Bell Frog Swale Pond Habitat Concept

Photos courtesy A.White



Figure 7b Frog Proof Fence Design

5. References

Biosphere Environmental Consultants (2013) Impact Assessment Re-development of Lot 10, 1-7 Juno Parade, Greenacre on the Green and Golden Bell Frog, for D.L. Rawal Pty Ltd.

Callen, A., Pizzato, L., Stockwell, M.P., Clulow, S., Clulow, J. and Mahony, M. (2023) The effect of salt dosing for chytrid mitigation on tadpoles of a threatened frog, *Litoria aurea*. *Journal of Comparative Physiology B* 193: 239-247 <https://doi.org/10.1007/s00360-023-01479-4>

Christy, M.T. and Dickman, C.R. (2002) Effects of salinity on tadpoles of the Green and Golden Bell Frog (*Litoria aurea*). *Amphibia-Reptilia* 23: 1-11 https://brill.com/view/journals/amre/23/1/article-p1_1.xml

Clulow, S., Gould, J., James, H., Stockwell, M., Clulow, J., and Mahony, M. (2018) Elevated salinity blocks pathogen transmission and improves host survival from the global amphibian chytrid pandemic: implications for translocations. *Journal Applied Ecology* 55(2): 830–840. <https://doi.org/10.1111/1365-2664.13030>

Daly, G., Johnson, P., Malolakis, G., Hyatt, A. and Pietsch, R. (2008) Reintroduction of Green and Golden Bell Frog *Litoria aurea* to Pambula on the south coast of New South Wales. *Australian Zoologist* 34(3): 261-370. <https://doi.org/10.7882/AZ.2008.003>

Department of Environment and Climate Change NSW (DECC - 2007) Management Plan The Green and Golden Bell Frog Key Population at Greenacre. May 2007 https://www.environment.nsw.gov.au/resources/threatenedspecies/2007138GreenacreGGBFM_P.pdf

Department of Environment and Climate Change NSW (DECC - 2008) Best Practice Guidelines Green and Golden Bell Frog Habitat 23 pp DECC 2008/510 November 2008 <https://www.sydneyolympicpark.nsw.gov.au/sites/default/files/2024-02/Best-practice-guidelines-Green-and-Golden-Bell-Frog-habitat.pdf>

Department of Environment and Conservation (DEC - 2005) Recovery Plan for the Green and Golden Bell Frog (*Litoria aurea*). DEC NSW, Hurstville, NSW. <https://www.environment.nsw.gov.au/resources/nature/recoveryplangreengoldbellfrogdraft.pdf>

Hamer, A.J., Lane, S.J., and Mahony, M.J. (2003) Retreat site selection during winter in the green and golden bell frog *Litoria aurea* Lesson. *Journal of Herpetology* 37: 541-545.

Stockwell, M.P., Clulow, S., Clulow, J., Mahony, M. (2008) The impact of the amphibian chytrid fungus *Batrachochytrium dendrobatidis* on a green and golden bell frog *Litoria aurea* reintroduction program at the Hunter Wetlands Centre Australia in the Hunter Region of NSW. *Australian Zoologist* 34(3): 379-386. <https://doi.org/10.7882/AZ.2008.015>

Stockwell, M.P., Clulow, J., Mahony, M.J. (2012) Sodium chloride inhibits the growth and infective capacity of the amphibian chytrid fungus and increases host survival rates. *PLoS ONE* 7(5): 1-7 e36942 <https://doi.org/10.1371/journal.pone.0036942>

Stockwell MP, Clulow J, Mahony MJ (2015) Evidence of a salt refuge: chytrid infection loads are suppressed in hosts exposed to salt. *Oecologia* 1: 901-910.
<https://doi.org/10.1007/s00442-014-3157-6>

Tooker and Associates (2025) Water Soils and Flooding Report for 13 Bellfrog Street Greenacre, Report Prepared for Aussie Skips Recycling.

Waddle, A. (2024) Hot spot ‘saunas’ a new lifeline for endangered frog populations. The Lighthouse – All Research Stories. Macquarie University
<https://lighthouse.mq.edu.au/article/june-2024/hot-spot-saunas-a-new-lifeline-for-endangered-frog-populations>

Waddle, A. and Shine, R. (ND) How to build a frog sauna. Unpaginated 6 pp (unpublished)

Wellington, R.C and Haering, R. (2008) Frog Hygiene Protocol for Control of Disease in Frogs. Threatened Species Management Information Circular No. 6, DECC 2008/199 April 2008 https://wildlife-rescue.org.au/uploads/1/8/3/0/18305629/hyprfrog_april_2008.pdf

Appendix

Contacts

Name	Role	Phone	E-mail
James Hammond	4 Pillars CEO	0423 196 069	james@4pillars.com.au
Sophie Burke	4 Pillars Senior Ecologist	0422 225 383	sophia@4pillars.com.au
Nicole McVicar	EMM Associate Ecologist	0439 615 753	nmcvicar@emmconsulting.com.au
Justin Chey	EMM Ecologist PM	02 4907 4800	jchey@emmconsulting.com.au
Arthur White	FATs Frog Ecologist	02 9599 1161	arfawhite@gmail.com
Theo Wilkinson	Senior Conservation Planner DCCEEW		theo.wilkinson@environment.nsw.gov.au
Nick Corkish	Senior Regional Conservation Planner DCCEEW	02 9585 6826	Nick.Corkish@environment.nsw.gov.au
Maxx Liong	Environmental Projects Officer – Biosecurity Strathfield Council	0438 210 376	maxx.liong@strathfield.nsw.gov.au
Anthony Waddle	NSW Ports Consultant Ecologist Macquarie University Researcher		anthony.waddle@mq.edu.au
John Comerford	Pacific National Greenacre 1 Locomotive Place, off Wentworth St, Greenacre NSW 2190	(02) 87454317 0477 555 486	
Bryan Beudeker	NSW Ports Environment Manager	+61 408 015 185	Bryan.Beudeker@nswports.com.au
Heidelberg Materials - Greenacre Concrete	18-20 Bellfrog Street Greenacre neighbour bordering Coxs Creek (concrete manufacturer)	132662	https://www.heidelbergmaterials.com.au/en
AUSREO - Greenacre - Metal Fabrication	1-3 Juno Parade Greenacre steel fabricator neighbour with greenspace easement connecting to Coxs Creek 35 Wentworth St, Greenacre NSW 2190	(02) 97515700	
Bingo Industries Recycling Centre	located opposite 'FreightCorp'/Pacific National and adjacent to vegetated corridor along railway land	1300 424646	
Enhua Lee	Department of Climate Change Energy Environment and Water (NSW) - DCCEEW	02 9585 6302	Enhua.Lee@environment.nsw.gov.au
Ross Wellington	Conservation Biologist and Consultant Ecologist - Principal AES this document author	0407489489	rwrossco@gmail.com

Appendix B

Protected Matters Search Results



Australian Government

Department of Climate Change, Energy,
the Environment and Water

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 25-Feb-2025

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	13
Listed Threatened Species:	117
Listed Migratory Species:	70

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	1026
Commonwealth Heritage Places:	6
Listed Marine Species:	100
Whales and Other Cetaceans:	9
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	5
Regional Forest Agreements:	None
Nationally Important Wetlands:	3
EPBC Act Referrals:	65
Key Ecological Features (Marine):	None
Biologically Important Areas:	2
Bioregional Assessments:	1
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar Wetlands)		[Resource Information]
Ramsar Site Name	Proximity	Buffer Status
Towra point nature reserve	Within 10km of Ramsar site	In buffer area only

Listed Threatened Ecological Communities	[Resource Information]
--	--------------------------

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

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

Community Name	Threatened Category	Presence Text	Buffer Status
Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion	Endangered	Community may occur	In feature area within area
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community likely to occur	In feature area within area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community likely to occur	In feature area within area
Coastal Upland Swamps in the Sydney Basin Bioregion	Endangered	Community likely to occur	In buffer area only within area
Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur	In feature area within area
Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest	Critically Endangered	Community likely to occur	In buffer area only within area
Eastern Suburbs Banksia Scrub of the Sydney Region	Critically Endangered	Community may occur	In buffer area only within area
River-flat eucalypt forest on coastal floodplains of southern New South Wales and eastern Victoria	Critically Endangered	Community likely to occur	In feature area within area
Shale Sandstone Transition Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur	In feature area within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur	In buffer area only within area

Community Name	Threatened Category	Presence Text	Buffer Status
Turpentine-Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In buffer area only
Upland Basalt Eucalypt Forests of the Sydney Basin Bioregion	Endangered	Community may occur within area	In buffer area only
Western Sydney Dry Rainforest and Moist Woodland on Shale	Critically Endangered	Community likely to occur within area	In feature area

Listed Threatened Species

[[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Aphelocephala leucopsis Southern Whiteface [529]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris tenuirostris Great Knot [862]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Callocephalon fimbriatum Gang-gang Cockatoo [768]	Endangered	Species or species habitat likely to occur within area	In feature area
Calyptorhynchus lathami lathami South-eastern Glossy Black-Cockatoo [67036]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Climacteris picumnus victoriae Brown Treecreeper (south-eastern) [67062]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Dasyornis brachypterus Eastern Bristlebird [533]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea antipodensis gibsoni Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In buffer area only
Erythroriorchis radiatus Red Goshawk [942]	Endangered	Species or species habitat may occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat known to occur within area	In feature area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Endangered	Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Melanodryas cucullata cucullata South-eastern Hooded Robin, Hooded Robin (south-eastern) [67093]	Endangered	Species or species habitat likely to occur within area	In feature area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Neophema chrysostoma Blue-winged Parrot [726]	Vulnerable	Species or species habitat may occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pterodroma leucoptera leucoptera Gould's Petrel, Australian Gould's Petrel [26033]	Endangered	Species or species habitat may occur within area	In buffer area only
Pterodroma neglecta neglecta Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour may occur within area	In buffer area only
Pycnoptilus floccosus Pilotbird [525]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Stagonopleura guttata Diamond Firetail [59398]	Vulnerable	Species or species habitat known to occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding likely to occur within area	In feature area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche bulleri platei Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In feature area
FISH			
Epinephelus daemeli Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Hippocampus whitei White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat known to occur within area	In buffer area only
Macquaria australasica Macquarie Perch [66632]	Endangered	Species or species habitat may occur within area	In feature area
Prototroctes maraena Australian Grayling [26179]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Seriolella brama Blue Warehou [69374]	Conservation Dependent	Species or species habitat known to occur within area	In buffer area only
FROG			
Heleioporus australiacus Giant Burrowing Frog [1973]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Litoria aurea Green and Golden Bell Frog [1870]	Vulnerable	Species or species habitat known to occur within area	In feature area
Mixophyes balbus Stuttering Frog, Southern Barred Frog (in Victoria) [1942]	Vulnerable	Species or species habitat may occur within area	In buffer area only
MAMMAL			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In buffer area only
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Endangered	Species or species habitat known to occur within area	In feature area
Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area	In feature area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area	In buffer area only
Isoodon obesulus obesulus Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]	Endangered	Species or species habitat likely to occur within area	In feature area
Notamacropus parma Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Petauroides volans Greater Glider (southern and central) [254]	Endangered	Species or species habitat known to occur within area	In feature area
Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Petrogale penicillata Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area	In feature area
Pseudomys novaehollandiae New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area
PLANT			
Acacia baueri subsp. aspera [18662]	Endangered	Species or species habitat may occur within area	In buffer area only
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575]	Vulnerable	Species or species habitat may occur within area	In feature area
Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800]	Vulnerable	Species or species habitat known to occur within area	In feature area
Acacia terminalis subsp. Eastern Sydney (G.P.Phillips 126) listed as Acacia terminalis subsp. terminalis MS			
Sunshine Wattle (Sydney region) [91564]	Endangered	Species or species habitat known to occur within area	In feature area
Allocasuarina glareicola [21932]	Endangered	Species or species habitat likely to occur within area	In feature area
Caladenia tessellata Thick-lipped Spider-orchid, Daddy Long-legs [2119]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Cryptostylis hunteriana Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Cynanchum elegans White-flowered Wax Plant [12533]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Darwinia biflora [14619]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Deyeuxia appressa [7438]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eucalyptus camfieldii Camfield's Stringybark [15460]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Genoplesium baueri Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528]	Endangered	Species or species habitat likely to occur within area	In feature area
Grevillea parviflora subsp. parviflora Small-flower Grevillea [64910]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Hibbertia puberula subsp. glabrescens [86645]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Lasiopetalum joyceae [20311]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Leucopogon exolasius Woronora Beard-heath [14251]	Vulnerable	Species or species habitat known to occur within area	In feature area
Melaleuca biconvexa Biconvex Paperbark [5583]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Melaleuca deanei Deane's Melaleuca [5818]	Vulnerable	Species or species habitat known to occur within area	In feature area
Persicaria elatior Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Persoonia hirsuta Hairy Geebung, Hairy Persoonia [19006]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Persoonia nutans Nodding Geebung [18119]	Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pimelea curviflora var. curviflora [4182]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pimelea spicata Spiked Rice-flower [20834]	Endangered	Species or species habitat known to occur within area	In feature area
Pomaderris brunnea Rufous Pomaderris, Brown Pomaderris [16845]	Vulnerable	Species or species habitat may occur within area	In feature area
Prostanthera densa Villous Mintbush [12233]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pterostylis saxicola Sydney Plains Greenhood [64537]	Endangered	Species or species habitat known to occur within area	In feature area
Pultenaea aristata [18062]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Rhizanthella slateri Eastern Underground Orchid [11768]	Endangered	Species or species habitat may occur within area	In buffer area only
Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Rhodomyrtus psidioides Native Guava [19162]	Critically Endangered	Species or species habitat may occur within area	In feature area
Syzygium paniculatum Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307]	Vulnerable	Species or species habitat known to occur within area	In feature area
Thelymitra kangaloonica Kangaloon Sun Orchid [81861]	Critically Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat known to occur within area	In feature area
REPTILE			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Hoplocephalus bungaroides Broad-headed Snake [1182]	Endangered	Species or species habitat likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Carcharias taurus (east coast population) Grey Nurse Shark (east coast population) [68751]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
SNAIL			
Meridolum maryae Maroubra Woodland Snail, Maroubra Land Snail [89884]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Pommerhelix duralensis Dural Land Snail [85268]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species	[Resource Information]		
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In buffer area only
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area	In buffer area only
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area	In buffer area only
Sternula albifrons Little Tern [82849]		Breeding likely to occur within area	In buffer area only
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche eremita Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Migratory Marine Species			
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area	In buffer area only
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
Carcharias taurus Grey Nurse Shark [64469]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Dugong dugon Dugong [28]		Species or species habitat may occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Eubalaena australis as Balaena glacialis australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area	In buffer area only
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area	In buffer area only
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Terrestrial Species			
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris pugnax as Philomachus pugnax Ruff [91256]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Calidris ruficollis Red-necked Stint [860]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat known to occur within area	In feature area
Gallinago megala Swinhoe's Snipe [864]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Gallinago stenura Pin-tailed Snipe [841]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Numenius phaeopus Whimbrel [849]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa stagnatilis			
Marsh Sandpiper, Little Greenshank [833]		Foraging, feeding or related behaviour known to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Commonwealth Lands

[[Resource Information](#)]

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

Commonwealth Land Name	State	Buffer Status
Commonwealth Bank of Australia		
Commonwealth Land - Commonwealth Bank of Australia [14406]	NSW	In buffer area only
Commonwealth Land - Commonwealth Bank of Australia [14407]	NSW	In buffer area only
Commonwealth Land - Commonwealth Bank of Australia [14408]	NSW	In buffer area only
Commonwealth Trading Bank of Australia		
Commonwealth Land - Commonwealth Trading Bank of Australia [14477]	NSW	In buffer area only
Commonwealth Land - Commonwealth Trading Bank of Australia [14503]	NSW	In buffer area only
Communications, Information Technology and the Arts - Australian Postal Corporation		
Commonwealth Land - Australian Postal Commission [13094]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13864]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13091]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13039]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [15698]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14391]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13040]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13002]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14384]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [15538]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Postal Commission [15537]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14495]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13845]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14473]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14426]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16471]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [14422]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [14421]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16051]	NSW	In buffer area only
Commonwealth Land - Australia Post [15591]	NSW	In buffer area only
Communications, Information Technology and the Arts - Telstra Corporation Limited		
Commonwealth Land - Australian & Overseas Telecommunications Corporation [14458]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13019]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13018]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14485]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [16448]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13092]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13093]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [12116]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13097]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13095]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14415]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14379]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Telecommunications Commission [14416]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14418]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14417]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14414]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14443]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14381]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14428]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14463]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14409]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14496]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14402]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14405]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [12069]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13014]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14484]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [15504]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14412]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14410]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14442]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14385]	NSW	In buffer area only

Defence

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Service Homes Corporation [12117]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13005]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13054]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13003]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13010]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13846]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation & Alice Isabel Patterson [14377]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14425]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11104]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11108]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11100]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11099]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11098]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11103]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11102]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11101]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11105]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11106]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11107]	NSW	In buffer area only
Defence - CAMP SAPPER-EAST HILLS (Lot 2) : CAMP SAPPER TRAINING AREA (Lot 1) [10236]	NSW	In buffer area only
Defence - CAMP SAPPER-EAST HILLS (Lot 2) : CAMP SAPPER TRAINING AREA (Lot 1) [10237]	NSW	In buffer area only
Defence - CHESTER HILL (NO 2 STORE DPT) [10010]	NSW	In buffer area only
Defence - CHESTER HILL (NO 2 STORE DPT) [10011]	NSW	In buffer area only
Defence - CONCORD OFFICE ACCN [11093]	NSW	In buffer area only
Defence - FOREST LODGE (SYDNEY) TRG DEP [10071]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - GLADESVILLE TRAINING DEPOT [10012]	NSW	In buffer area only
Defence - HURSTVILLE TRG DEP [11109]	NSW	In buffer area only
Defence - LEICHHARDT STORES DEPOT [11112]	NSW	In buffer area only
Defence - LIDCOMBE MULTI-USER DEPOT [11114]	NSW	In buffer area only
Defence - LIDCOMBE MULTI-USER DEPOT [11113]	NSW	In buffer area only
Defence - LIDCOMBE MULTI-USER DEPOT [11115]	NSW	In buffer area only
Defence - NEWINGTON [10775]	NSW	In buffer area only
Defence - NEWINGTON [10774]	NSW	In buffer area only
Defence - NEWINGTON [10776]	NSW	In buffer area only
Defence - NEWINGTON [10771]	NSW	In buffer area only
Defence - NEWINGTON [11054]	NSW	In buffer area only
Defence - NEWINGTON [10770]	NSW	In buffer area only
Defence - NEWINGTON [11057]	NSW	In buffer area only
Defence - NEWINGTON [10773]	NSW	In buffer area only
Defence - NEWINGTON [10772]	NSW	In buffer area only
Defence - NEWINGTON [10674]	NSW	In buffer area only
Defence - NEWINGTON [11050]	NSW	In buffer area only
Defence - NEWINGTON [11053]	NSW	In buffer area only
Defence - NEWINGTON [10676]	NSW	In buffer area only
Defence - NEWINGTON [11056]	NSW	In buffer area only
Defence - NEWINGTON [10677]	NSW	In buffer area only
Defence - NEWINGTON [11051]	NSW	In buffer area only
Defence - NEWINGTON [10617]	NSW	In buffer area only
Defence - NEWINGTON [10264]	NSW	In buffer area only
Defence - NEWINGTON [10616]	NSW	In buffer area only
Defence - NEWINGTON [10265]	NSW	In buffer area only
Defence - NEWINGTON [10268]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10613]	NSW	In buffer area only
Defence - NEWINGTON [10592]	NSW	In buffer area only
Defence - NEWINGTON [10758]	NSW	In buffer area only
Defence - NEWINGTON [10610]	NSW	In buffer area only
Defence - NEWINGTON [10267]	NSW	In buffer area only
Defence - NEWINGTON [10429]	NSW	In buffer area only
Defence - NEWINGTON [10269]	NSW	In buffer area only
Defence - NEWINGTON [10811]	NSW	In buffer area only
Defence - NEWINGTON [10810]	NSW	In buffer area only
Defence - NEWINGTON [10813]	NSW	In buffer area only
Defence - NEWINGTON [10977]	NSW	In buffer area only
Defence - NEWINGTON [11004]	NSW	In buffer area only
Defence - NEWINGTON [11005]	NSW	In buffer area only
Defence - NEWINGTON [11002]	NSW	In buffer area only
Defence - NEWINGTON [10662]	NSW	In buffer area only
Defence - NEWINGTON [11003]	NSW	In buffer area only
Defence - NEWINGTON [11000]	NSW	In buffer area only
Defence - NEWINGTON [11001]	NSW	In buffer area only
Defence - NEWINGTON [10978]	NSW	In buffer area only
Defence - NEWINGTON [10931]	NSW	In buffer area only
Defence - NEWINGTON [10779]	NSW	In buffer area only
Defence - NEWINGTON [10778]	NSW	In buffer area only
Defence - NEWINGTON [10975]	NSW	In buffer area only
Defence - NEWINGTON [10777]	NSW	In buffer area only
Defence - NEWINGTON [10974]	NSW	In buffer area only
Defence - NEWINGTON [11007]	NSW	In buffer area only
Defence - NEWINGTON [10819]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10979]	NSW	In buffer area only
Defence - NEWINGTON [10951]	NSW	In buffer area only
Defence - NEWINGTON [10817]	NSW	In buffer area only
Defence - NEWINGTON [10816]	NSW	In buffer area only
Defence - NEWINGTON [10360]	NSW	In buffer area only
Defence - NEWINGTON [10815]	NSW	In buffer area only
Defence - NEWINGTON [10551]	NSW	In buffer area only
Defence - NEWINGTON [10814]	NSW	In buffer area only
Defence - NEWINGTON [10362]	NSW	In buffer area only
Defence - NEWINGTON [10361]	NSW	In buffer area only
Defence - NEWINGTON [10364]	NSW	In buffer area only
Defence - NEWINGTON [10363]	NSW	In buffer area only
Defence - NEWINGTON [10365]	NSW	In buffer area only
Defence - NEWINGTON [10954]	NSW	In buffer area only
Defence - NEWINGTON [10955]	NSW	In buffer area only
Defence - NEWINGTON [10952]	NSW	In buffer area only
Defence - NEWINGTON [10953]	NSW	In buffer area only
Defence - NEWINGTON [10332]	NSW	In buffer area only
Defence - NEWINGTON [10903]	NSW	In buffer area only
Defence - NEWINGTON [10904]	NSW	In buffer area only
Defence - NEWINGTON [10901]	NSW	In buffer area only
Defence - NEWINGTON [10902]	NSW	In buffer area only
Defence - NEWINGTON [11009]	NSW	In buffer area only
Defence - NEWINGTON [10669]	NSW	In buffer area only
Defence - NEWINGTON [11006]	NSW	In buffer area only
Defence - NEWINGTON [10900]	NSW	In buffer area only
Defence - NEWINGTON [10908]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [11008]	NSW	In buffer area only
Defence - NEWINGTON [10909]	NSW	In buffer area only
Defence - NEWINGTON [10618]	NSW	In buffer area only
Defence - NEWINGTON [10331]	NSW	In buffer area only
Defence - NEWINGTON [10330]	NSW	In buffer area only
Defence - NEWINGTON [10956]	NSW	In buffer area only
Defence - NEWINGTON [11063]	NSW	In buffer area only
Defence - NEWINGTON [10957]	NSW	In buffer area only
Defence - NEWINGTON [11062]	NSW	In buffer area only
Defence - NEWINGTON [10448]	NSW	In buffer area only
Defence - NEWINGTON [11018]	NSW	In buffer area only
Defence - NEWINGTON [10537]	NSW	In buffer area only
Defence - NEWINGTON [10333]	NSW	In buffer area only
Defence - NEWINGTON [10840]	NSW	In buffer area only
Defence - NEWINGTON [10334]	NSW	In buffer area only
Defence - NEWINGTON [10706]	NSW	In buffer area only
Defence - NEWINGTON [10440]	NSW	In buffer area only
Defence - NEWINGTON [11069]	NSW	In buffer area only
Defence - NEWINGTON [11068]	NSW	In buffer area only
Defence - NEWINGTON [10851]	NSW	In buffer area only
Defence - NEWINGTON [11059]	NSW	In buffer area only
Defence - NEWINGTON [11058]	NSW	In buffer area only
Defence - NEWINGTON [10337]	NSW	In buffer area only
Defence - NEWINGTON [10468]	NSW	In buffer area only
Defence - NEWINGTON [10336]	NSW	In buffer area only
Defence - NEWINGTON [10335]	NSW	In buffer area only
Defence - NEWINGTON [10850]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10905]	NSW	In buffer area only
Defence - NEWINGTON [10906]	NSW	In buffer area only
Defence - NEWINGTON [10907]	NSW	In buffer area only
Defence - NEWINGTON [10757]	NSW	In buffer area only
Defence - NEWINGTON [10549]	NSW	In buffer area only
Defence - NEWINGTON [10754]	NSW	In buffer area only
Defence - NEWINGTON [10527]	NSW	In buffer area only
Defence - NEWINGTON [10751]	NSW	In buffer area only
Defence - NEWINGTON [10756]	NSW	In buffer area only
Defence - NEWINGTON [10441]	NSW	In buffer area only
Defence - NEWINGTON [10855]	NSW	In buffer area only
Defence - NEWINGTON [10755]	NSW	In buffer area only
Defence - NEWINGTON [10644]	NSW	In buffer area only
Defence - NEWINGTON [10288]	NSW	In buffer area only
Defence - NEWINGTON [10648]	NSW	In buffer area only
Defence - NEWINGTON [10649]	NSW	In buffer area only
Defence - NEWINGTON [10753]	NSW	In buffer area only
Defence - NEWINGTON [10750]	NSW	In buffer area only
Defence - NEWINGTON [10614]	NSW	In buffer area only
Defence - NEWINGTON [10752]	NSW	In buffer area only
Defence - NEWINGTON [10248]	NSW	In buffer area only
Defence - NEWINGTON [11046]	NSW	In buffer area only
Defence - NEWINGTON [10249]	NSW	In buffer area only
Defence - NEWINGTON [10685]	NSW	In buffer area only
Defence - NEWINGTON [10686]	NSW	In buffer area only
Defence - NEWINGTON [10581]	NSW	In buffer area only
Defence - NEWINGTON [10580]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10587]	NSW	In buffer area only
Defence - NEWINGTON [10583]	NSW	In buffer area only
Defence - NEWINGTON [10582]	NSW	In buffer area only
Defence - NEWINGTON [10762]	NSW	In buffer area only
Defence - NEWINGTON [10682]	NSW	In buffer area only
Defence - NEWINGTON [10642]	NSW	In buffer area only
Defence - NEWINGTON [10681]	NSW	In buffer area only
Defence - NEWINGTON [10641]	NSW	In buffer area only
Defence - NEWINGTON [10684]	NSW	In buffer area only
Defence - NEWINGTON [10763]	NSW	In buffer area only
Defence - NEWINGTON [10683]	NSW	In buffer area only
Defence - NEWINGTON [10643]	NSW	In buffer area only
Defence - NEWINGTON [10688]	NSW	In buffer area only
Defence - NEWINGTON [10646]	NSW	In buffer area only
Defence - NEWINGTON [10828]	NSW	In buffer area only
Defence - NEWINGTON [10645]	NSW	In buffer area only
Defence - NEWINGTON [10680]	NSW	In buffer area only
Defence - NEWINGTON [10640]	NSW	In buffer area only
Defence - NEWINGTON [10689]	NSW	In buffer area only
Defence - NEWINGTON [10647]	NSW	In buffer area only
Defence - NEWINGTON [10584]	NSW	In buffer area only
Defence - NEWINGTON [10589]	NSW	In buffer area only
Defence - NEWINGTON [10586]	NSW	In buffer area only
Defence - NEWINGTON [10884]	NSW	In buffer area only
Defence - NEWINGTON [10585]	NSW	In buffer area only
Defence - NEWINGTON [10886]	NSW	In buffer area only
Defence - NEWINGTON [10556]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10887]	NSW	In buffer area only
Defence - NEWINGTON [10866]	NSW	In buffer area only
Defence - NEWINGTON [10867]	NSW	In buffer area only
Defence - NEWINGTON [10859]	NSW	In buffer area only
Defence - NEWINGTON [10564]	NSW	In buffer area only
Defence - NEWINGTON [10588]	NSW	In buffer area only
Defence - NEWINGTON [10565]	NSW	In buffer area only
Defence - NEWINGTON [10865]	NSW	In buffer area only
Defence - NEWINGTON [10864]	NSW	In buffer area only
Defence - NEWINGTON [10863]	NSW	In buffer area only
Defence - NEWINGTON [10862]	NSW	In buffer area only
Defence - NEWINGTON [10861]	NSW	In buffer area only
Defence - NEWINGTON [10860]	NSW	In buffer area only
Defence - NEWINGTON [10384]	NSW	In buffer area only
Defence - NEWINGTON [10386]	NSW	In buffer area only
Defence - NEWINGTON [10381]	NSW	In buffer area only
Defence - NEWINGTON [10380]	NSW	In buffer area only
Defence - NEWINGTON [10971]	NSW	In buffer area only
Defence - NEWINGTON [10382]	NSW	In buffer area only
Defence - NEWINGTON [11052]	NSW	In buffer area only
Defence - NEWINGTON [10720]	NSW	In buffer area only
Defence - NEWINGTON [10946]	NSW	In buffer area only
Defence - NEWINGTON [10703]	NSW	In buffer area only
Defence - NEWINGTON [10368]	NSW	In buffer area only
Defence - NEWINGTON [10369]	NSW	In buffer area only
Defence - NEWINGTON [10366]	NSW	In buffer area only
Defence - NEWINGTON [10367]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10389]	NSW	In buffer area only
Defence - NEWINGTON [10388]	NSW	In buffer area only
Defence - NEWINGTON [10721]	NSW	In buffer area only
Defence - NEWINGTON [10243]	NSW	In buffer area only
Defence - NEWINGTON [10671]	NSW	In buffer area only
Defence - NEWINGTON [10679]	NSW	In buffer area only
Defence - NEWINGTON [10678]	NSW	In buffer area only
Defence - NEWINGTON [10672]	NSW	In buffer area only
Defence - NEWINGTON [10675]	NSW	In buffer area only
Defence - NEWINGTON [10670]	NSW	In buffer area only
Defence - NEWINGTON [10673]	NSW	In buffer area only
Defence - NEWINGTON [10308]	NSW	In buffer area only
Defence - NEWINGTON [10305]	NSW	In buffer area only
Defence - NEWINGTON [10611]	NSW	In buffer area only
Defence - NEWINGTON [10309]	NSW	In buffer area only
Defence - NEWINGTON [10306]	NSW	In buffer area only
Defence - NEWINGTON [10687]	NSW	In buffer area only
Defence - NEWINGTON [10304]	NSW	In buffer area only
Defence - NEWINGTON [10307]	NSW	In buffer area only
Defence - NEWINGTON [10726]	NSW	In buffer area only
Defence - NEWINGTON [10727]	NSW	In buffer area only
Defence - NEWINGTON [10728]	NSW	In buffer area only
Defence - NEWINGTON [10729]	NSW	In buffer area only
Defence - NEWINGTON [10722]	NSW	In buffer area only
Defence - NEWINGTON [10723]	NSW	In buffer area only
Defence - NEWINGTON [10724]	NSW	In buffer area only
Defence - NEWINGTON [10725]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10370]	NSW	In buffer area only
Defence - NEWINGTON [10371]	NSW	In buffer area only
Defence - NEWINGTON [10372]	NSW	In buffer area only
Defence - NEWINGTON [10373]	NSW	In buffer area only
Defence - NEWINGTON [10600]	NSW	In buffer area only
Defence - NEWINGTON [10601]	NSW	In buffer area only
Defence - NEWINGTON [10602]	NSW	In buffer area only
Defence - NEWINGTON [10805]	NSW	In buffer area only
Defence - NEWINGTON [10604]	NSW	In buffer area only
Defence - NEWINGTON [10804]	NSW	In buffer area only
Defence - NEWINGTON [10603]	NSW	In buffer area only
Defence - NEWINGTON [10803]	NSW	In buffer area only
Defence - NEWINGTON [10802]	NSW	In buffer area only
Defence - NEWINGTON [10801]	NSW	In buffer area only
Defence - NEWINGTON [10800]	NSW	In buffer area only
Defence - NEWINGTON [10619]	NSW	In buffer area only
Defence - NEWINGTON [10807]	NSW	In buffer area only
Defence - NEWINGTON [10806]	NSW	In buffer area only
Defence - NEWINGTON [10609]	NSW	In buffer area only
Defence - NEWINGTON [10608]	NSW	In buffer area only
Defence - NEWINGTON [10607]	NSW	In buffer area only
Defence - NEWINGTON [10606]	NSW	In buffer area only
Defence - NEWINGTON [10605]	NSW	In buffer area only
Defence - NEWINGTON [11065]	NSW	In buffer area only
Defence - NEWINGTON [11066]	NSW	In buffer area only
Defence - NEWINGTON [10464]	NSW	In buffer area only
Defence - NEWINGTON [10668]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [11064]	NSW	In buffer area only
Defence - NEWINGTON [11070]	NSW	In buffer area only
Defence - NEWINGTON [11061]	NSW	In buffer area only
Defence - NEWINGTON [10792]	NSW	In buffer area only
Defence - NEWINGTON [11067]	NSW	In buffer area only
Defence - NEWINGTON [11060]	NSW	In buffer area only
Defence - NEWINGTON [10463]	NSW	In buffer area only
Defence - NEWINGTON [10462]	NSW	In buffer area only
Defence - NEWINGTON [10461]	NSW	In buffer area only
Defence - NEWINGTON [10460]	NSW	In buffer area only
Defence - NEWINGTON [10501]	NSW	In buffer area only
Defence - NEWINGTON [10502]	NSW	In buffer area only
Defence - NEWINGTON [10503]	NSW	In buffer area only
Defence - NEWINGTON [10508]	NSW	In buffer area only
Defence - NEWINGTON [10509]	NSW	In buffer area only
Defence - NEWINGTON [10465]	NSW	In buffer area only
Defence - NEWINGTON [10262]	NSW	In buffer area only
Defence - NEWINGTON [10504]	NSW	In buffer area only
Defence - NEWINGTON [10260]	NSW	In buffer area only
Defence - NEWINGTON [10263]	NSW	In buffer area only
Defence - NEWINGTON [10266]	NSW	In buffer area only
Defence - NEWINGTON [10261]	NSW	In buffer area only
Defence - NEWINGTON [10507]	NSW	In buffer area only
Defence - NEWINGTON [10500]	NSW	In buffer area only
Defence - NEWINGTON [10505]	NSW	In buffer area only
Defence - NEWINGTON [10506]	NSW	In buffer area only
Defence - NEWINGTON [10302]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10499]	NSW	In buffer area only
Defence - NEWINGTON [10300]	NSW	In buffer area only
Defence - NEWINGTON [10303]	NSW	In buffer area only
Defence - NEWINGTON [10843]	NSW	In buffer area only
Defence - NEWINGTON [10498]	NSW	In buffer area only
Defence - NEWINGTON [10842]	NSW	In buffer area only
Defence - NEWINGTON [10841]	NSW	In buffer area only
Defence - NEWINGTON [10847]	NSW	In buffer area only
Defence - NEWINGTON [10846]	NSW	In buffer area only
Defence - NEWINGTON [10844]	NSW	In buffer area only
Defence - NEWINGTON [10845]	NSW	In buffer area only
Defence - NEWINGTON [10927]	NSW	In buffer area only
Defence - NEWINGTON [10848]	NSW	In buffer area only
Defence - NEWINGTON [10849]	NSW	In buffer area only
Defence - NEWINGTON [10563]	NSW	In buffer area only
Defence - NEWINGTON [11049]	NSW	In buffer area only
Defence - NEWINGTON [10385]	NSW	In buffer area only
Defence - NEWINGTON [10349]	NSW	In buffer area only
Defence - NEWINGTON [10301]	NSW	In buffer area only
Defence - NEWINGTON [10420]	NSW	In buffer area only
Defence - NEWINGTON [10348]	NSW	In buffer area only
Defence - NEWINGTON [10340]	NSW	In buffer area only
Defence - NEWINGTON [10341]	NSW	In buffer area only
Defence - NEWINGTON [10342]	NSW	In buffer area only
Defence - NEWINGTON [10343]	NSW	In buffer area only
Defence - NEWINGTON [10492]	NSW	In buffer area only
Defence - NEWINGTON [10984]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10458]	NSW	In buffer area only
Defence - NEWINGTON [10418]	NSW	In buffer area only
Defence - NEWINGTON [10759]	NSW	In buffer area only
Defence - NEWINGTON [10412]	NSW	In buffer area only
Defence - NEWINGTON [10985]	NSW	In buffer area only
Defence - NEWINGTON [10419]	NSW	In buffer area only
Defence - NEWINGTON [10428]	NSW	In buffer area only
Defence - NEWINGTON [10868]	NSW	In buffer area only
Defence - NEWINGTON [10869]	NSW	In buffer area only
Defence - NEWINGTON [10719]	NSW	In buffer area only
Defence - NEWINGTON [10538]	NSW	In buffer area only
Defence - NEWINGTON [11027]	NSW	In buffer area only
Defence - NEWINGTON [10539]	NSW	In buffer area only
Defence - NEWINGTON [10490]	NSW	In buffer area only
Defence - NEWINGTON [10534]	NSW	In buffer area only
Defence - NEWINGTON [10718]	NSW	In buffer area only
Defence - NEWINGTON [10535]	NSW	In buffer area only
Defence - NEWINGTON [10496]	NSW	In buffer area only
Defence - NEWINGTON [10491]	NSW	In buffer area only
Defence - NEWINGTON [10707]	NSW	In buffer area only
Defence - NEWINGTON [10704]	NSW	In buffer area only
Defence - NEWINGTON [10705]	NSW	In buffer area only
Defence - NEWINGTON [10702]	NSW	In buffer area only
Defence - NEWINGTON [10700]	NSW	In buffer area only
Defence - NEWINGTON [10701]	NSW	In buffer area only
Defence - NEWINGTON [10560]	NSW	In buffer area only
Defence - NEWINGTON [10709]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10708]	NSW	In buffer area only
Defence - NEWINGTON [10497]	NSW	In buffer area only
Defence - NEWINGTON [10494]	NSW	In buffer area only
Defence - NEWINGTON [10495]	NSW	In buffer area only
Defence - NEWINGTON [10711]	NSW	In buffer area only
Defence - NEWINGTON [10557]	NSW	In buffer area only
Defence - NEWINGTON [10798]	NSW	In buffer area only
Defence - NEWINGTON [10799]	NSW	In buffer area only
Defence - NEWINGTON [10796]	NSW	In buffer area only
Defence - NEWINGTON [10797]	NSW	In buffer area only
Defence - NEWINGTON [10794]	NSW	In buffer area only
Defence - NEWINGTON [10795]	NSW	In buffer area only
Defence - NEWINGTON [11020]	NSW	In buffer area only
Defence - NEWINGTON [11021]	NSW	In buffer area only
Defence - NEWINGTON [11029]	NSW	In buffer area only
Defence - NEWINGTON [10383]	NSW	In buffer area only
Defence - NEWINGTON [11028]	NSW	In buffer area only
Defence - NEWINGTON [11026]	NSW	In buffer area only
Defence - NEWINGTON [11025]	NSW	In buffer area only
Defence - NEWINGTON [11024]	NSW	In buffer area only
Defence - NEWINGTON [11023]	NSW	In buffer area only
Defence - NEWINGTON [11022]	NSW	In buffer area only
Defence - NEWINGTON [10933]	NSW	In buffer area only
Defence - NEWINGTON [10932]	NSW	In buffer area only
Defence - NEWINGTON [10838]	NSW	In buffer area only
Defence - NEWINGTON [10839]	NSW	In buffer area only
Defence - NEWINGTON [10986]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10414]	NSW	In buffer area only
Defence - NEWINGTON [10417]	NSW	In buffer area only
Defence - NEWINGTON [10415]	NSW	In buffer area only
Defence - NEWINGTON [10410]	NSW	In buffer area only
Defence - NEWINGTON [10413]	NSW	In buffer area only
Defence - NEWINGTON [10416]	NSW	In buffer area only
Defence - NEWINGTON [10411]	NSW	In buffer area only
Defence - NEWINGTON [10351]	NSW	In buffer area only
Defence - NEWINGTON [10350]	NSW	In buffer area only
Defence - NEWINGTON [10353]	NSW	In buffer area only
Defence - NEWINGTON [10356]	NSW	In buffer area only
Defence - NEWINGTON [10355]	NSW	In buffer area only
Defence - NEWINGTON [10352]	NSW	In buffer area only
Defence - NEWINGTON [10357]	NSW	In buffer area only
Defence - NEWINGTON [10354]	NSW	In buffer area only
Defence - NEWINGTON [10791]	NSW	In buffer area only
Defence - NEWINGTON [10790]	NSW	In buffer area only
Defence - NEWINGTON [10793]	NSW	In buffer area only
Defence - NEWINGTON [10245]	NSW	In buffer area only
Defence - NEWINGTON [10246]	NSW	In buffer area only
Defence - NEWINGTON [10247]	NSW	In buffer area only
Defence - NEWINGTON [10837]	NSW	In buffer area only
Defence - NEWINGTON [10623]	NSW	In buffer area only
Defence - NEWINGTON [10622]	NSW	In buffer area only
Defence - NEWINGTON [10620]	NSW	In buffer area only
Defence - NEWINGTON [10466]	NSW	In buffer area only
Defence - NEWINGTON [10628]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10629]	NSW	In buffer area only
Defence - NEWINGTON [10467]	NSW	In buffer area only
Defence - NEWINGTON [10358]	NSW	In buffer area only
Defence - NEWINGTON [10359]	NSW	In buffer area only
Defence - NEWINGTON [10244]	NSW	In buffer area only
Defence - NEWINGTON [10566]	NSW	In buffer area only
Defence - NEWINGTON [10567]	NSW	In buffer area only
Defence - NEWINGTON [10568]	NSW	In buffer area only
Defence - NEWINGTON [10569]	NSW	In buffer area only
Defence - NEWINGTON [10934]	NSW	In buffer area only
Defence - NEWINGTON [10935]	NSW	In buffer area only
Defence - NEWINGTON [10493]	NSW	In buffer area only
Defence - NEWINGTON [10937]	NSW	In buffer area only
Defence - NEWINGTON [10830]	NSW	In buffer area only
Defence - NEWINGTON [10976]	NSW	In buffer area only
Defence - NEWINGTON [10973]	NSW	In buffer area only
Defence - NEWINGTON [10970]	NSW	In buffer area only
Defence - NEWINGTON [10625]	NSW	In buffer area only
Defence - NEWINGTON [10972]	NSW	In buffer area only
Defence - NEWINGTON [10627]	NSW	In buffer area only
Defence - NEWINGTON [10624]	NSW	In buffer area only
Defence - NEWINGTON [10621]	NSW	In buffer area only
Defence - NEWINGTON [10626]	NSW	In buffer area only
Defence - NEWINGTON [10831]	NSW	In buffer area only
Defence - NEWINGTON [10832]	NSW	In buffer area only
Defence - NEWINGTON [10833]	NSW	In buffer area only
Defence - NEWINGTON [10834]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10835]	NSW	In buffer area only
Defence - NEWINGTON [10836]	NSW	In buffer area only
Defence - NEWINGTON [10378]	NSW	In buffer area only
Defence - NEWINGTON [10293]	NSW	In buffer area only
Defence - NEWINGTON [10963]	NSW	In buffer area only
Defence - NEWINGTON [10379]	NSW	In buffer area only
Defence - NEWINGTON [10375]	NSW	In buffer area only
Defence - NEWINGTON [10374]	NSW	In buffer area only
Defence - NEWINGTON [10377]	NSW	In buffer area only
Defence - NEWINGTON [10376]	NSW	In buffer area only
Defence - NEWINGTON [10536]	NSW	In buffer area only
Defence - NEWINGTON [10437]	NSW	In buffer area only
Defence - NEWINGTON [10436]	NSW	In buffer area only
Defence - NEWINGTON [10435]	NSW	In buffer area only
Defence - NEWINGTON [10434]	NSW	In buffer area only
Defence - NEWINGTON [10532]	NSW	In buffer area only
Defence - NEWINGTON [10533]	NSW	In buffer area only
Defence - NEWINGTON [10530]	NSW	In buffer area only
Defence - NEWINGTON [10531]	NSW	In buffer area only
Defence - NEWINGTON [10746]	NSW	In buffer area only
Defence - NEWINGTON [10747]	NSW	In buffer area only
Defence - NEWINGTON [10744]	NSW	In buffer area only
Defence - NEWINGTON [10745]	NSW	In buffer area only
Defence - NEWINGTON [10740]	NSW	In buffer area only
Defence - NEWINGTON [10741]	NSW	In buffer area only
Defence - NEWINGTON [10661]	NSW	In buffer area only
Defence - NEWINGTON [10660]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10748]	NSW	In buffer area only
Defence - NEWINGTON [10749]	NSW	In buffer area only
Defence - NEWINGTON [10652]	NSW	In buffer area only
Defence - NEWINGTON [10651]	NSW	In buffer area only
Defence - NEWINGTON [10717]	NSW	In buffer area only
Defence - NEWINGTON [10714]	NSW	In buffer area only
Defence - NEWINGTON [10650]	NSW	In buffer area only
Defence - NEWINGTON [10716]	NSW	In buffer area only
Defence - NEWINGTON [10713]	NSW	In buffer area only
Defence - NEWINGTON [10710]	NSW	In buffer area only
Defence - NEWINGTON [10715]	NSW	In buffer area only
Defence - NEWINGTON [10712]	NSW	In buffer area only
Defence - NEWINGTON [10469]	NSW	In buffer area only
Defence - NEWINGTON [10664]	NSW	In buffer area only
Defence - NEWINGTON [10667]	NSW	In buffer area only
Defence - NEWINGTON [10665]	NSW	In buffer area only
Defence - NEWINGTON [10398]	NSW	In buffer area only
Defence - NEWINGTON [10858]	NSW	In buffer area only
Defence - NEWINGTON [10666]	NSW	In buffer area only
Defence - NEWINGTON [10930]	NSW	In buffer area only
Defence - NEWINGTON [10399]	NSW	In buffer area only
Defence - NEWINGTON [10394]	NSW	In buffer area only
Defence - NEWINGTON [10395]	NSW	In buffer area only
Defence - NEWINGTON [10961]	NSW	In buffer area only
Defence - NEWINGTON [10433]	NSW	In buffer area only
Defence - NEWINGTON [10421]	NSW	In buffer area only
Defence - NEWINGTON [10659]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10658]	NSW	In buffer area only
Defence - NEWINGTON [10910]	NSW	In buffer area only
Defence - NEWINGTON [10911]	NSW	In buffer area only
Defence - NEWINGTON [10912]	NSW	In buffer area only
Defence - NEWINGTON [10559]	NSW	In buffer area only
Defence - NEWINGTON [10913]	NSW	In buffer area only
Defence - NEWINGTON [10653]	NSW	In buffer area only
Defence - NEWINGTON [10914]	NSW	In buffer area only
Defence - NEWINGTON [10915]	NSW	In buffer area only
Defence - NEWINGTON [10916]	NSW	In buffer area only
Defence - NEWINGTON [10738]	NSW	In buffer area only
Defence - NEWINGTON [10917]	NSW	In buffer area only
Defence - NEWINGTON [10657]	NSW	In buffer area only
Defence - NEWINGTON [10656]	NSW	In buffer area only
Defence - NEWINGTON [10655]	NSW	In buffer area only
Defence - NEWINGTON [10654]	NSW	In buffer area only
Defence - NEWINGTON [10732]	NSW	In buffer area only
Defence - NEWINGTON [10397]	NSW	In buffer area only
Defence - NEWINGTON [10731]	NSW	In buffer area only
Defence - NEWINGTON [10396]	NSW	In buffer area only
Defence - NEWINGTON [10825]	NSW	In buffer area only
Defence - NEWINGTON [10391]	NSW	In buffer area only
Defence - NEWINGTON [10737]	NSW	In buffer area only
Defence - NEWINGTON [10390]	NSW	In buffer area only
Defence - NEWINGTON [10736]	NSW	In buffer area only
Defence - NEWINGTON [10393]	NSW	In buffer area only
Defence - NEWINGTON [10735]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10392]	NSW	In buffer area only
Defence - NEWINGTON [10734]	NSW	In buffer area only
Defence - NEWINGTON [10969]	NSW	In buffer area only
Defence - NEWINGTON [10949]	NSW	In buffer area only
Defence - NEWINGTON [10599]	NSW	In buffer area only
Defence - NEWINGTON [10733]	NSW	In buffer area only
Defence - NEWINGTON [10405]	NSW	In buffer area only
Defence - NEWINGTON [10408]	NSW	In buffer area only
Defence - NEWINGTON [10407]	NSW	In buffer area only
Defence - NEWINGTON [10404]	NSW	In buffer area only
Defence - NEWINGTON [10430]	NSW	In buffer area only
Defence - NEWINGTON [10432]	NSW	In buffer area only
Defence - NEWINGTON [10431]	NSW	In buffer area only
Defence - NEWINGTON [10948]	NSW	In buffer area only
Defence - NEWINGTON [10438]	NSW	In buffer area only
Defence - NEWINGTON [10562]	NSW	In buffer area only
Defence - NEWINGTON [10339]	NSW	In buffer area only
Defence - NEWINGTON [10554]	NSW	In buffer area only
Defence - NEWINGTON [10663]	NSW	In buffer area only
Defence - NEWINGTON [10439]	NSW	In buffer area only
Defence - NEWINGTON [10338]	NSW	In buffer area only
Defence - NEWINGTON [10918]	NSW	In buffer area only
Defence - NEWINGTON [10615]	NSW	In buffer area only
Defence - NEWINGTON [10919]	NSW	In buffer area only
Defence - NEWINGTON [10409]	NSW	In buffer area only
Defence - NEWINGTON [10280]	NSW	In buffer area only
Defence - NEWINGTON [10786]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10789]	NSW	In buffer area only
Defence - NEWINGTON [10788]	NSW	In buffer area only
Defence - NEWINGTON [10545]	NSW	In buffer area only
Defence - NEWINGTON [10780]	NSW	In buffer area only
Defence - NEWINGTON [10783]	NSW	In buffer area only
Defence - NEWINGTON [10782]	NSW	In buffer area only
Defence - NEWINGTON [10785]	NSW	In buffer area only
Defence - NEWINGTON [10784]	NSW	In buffer area only
Defence - NEWINGTON [10787]	NSW	In buffer area only
Defence - NEWINGTON [10555]	NSW	In buffer area only
Defence - NEWINGTON [10596]	NSW	In buffer area only
Defence - NEWINGTON [10403]	NSW	In buffer area only
Defence - NEWINGTON [10402]	NSW	In buffer area only
Defence - NEWINGTON [10401]	NSW	In buffer area only
Defence - NEWINGTON [10400]	NSW	In buffer area only
Defence - NEWINGTON [10406]	NSW	In buffer area only
Defence - NEWINGTON [10944]	NSW	In buffer area only
Defence - NEWINGTON [10950]	NSW	In buffer area only
Defence - NEWINGTON [10451]	NSW	In buffer area only
Defence - NEWINGTON [10481]	NSW	In buffer area only
Defence - NEWINGTON [10424]	NSW	In buffer area only
Defence - NEWINGTON [10425]	NSW	In buffer area only
Defence - NEWINGTON [10423]	NSW	In buffer area only
Defence - NEWINGTON [10480]	NSW	In buffer area only
Defence - NEWINGTON [10739]	NSW	In buffer area only
Defence - NEWINGTON [10426]	NSW	In buffer area only
Defence - NEWINGTON [10427]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10941]	NSW	In buffer area only
Defence - NEWINGTON [10942]	NSW	In buffer area only
Defence - NEWINGTON [10943]	NSW	In buffer area only
Defence - NEWINGTON [10823]	NSW	In buffer area only
Defence - NEWINGTON [10945]	NSW	In buffer area only
Defence - NEWINGTON [10829]	NSW	In buffer area only
Defence - NEWINGTON [10947]	NSW	In buffer area only
Defence - NEWINGTON [10940]	NSW	In buffer area only
Defence - NEWINGTON [10822]	NSW	In buffer area only
Defence - NEWINGTON [10821]	NSW	In buffer area only
Defence - NEWINGTON [10925]	NSW	In buffer area only
Defence - NEWINGTON [10924]	NSW	In buffer area only
Defence - NEWINGTON [10488]	NSW	In buffer area only
Defence - NEWINGTON [10920]	NSW	In buffer area only
Defence - NEWINGTON [10923]	NSW	In buffer area only
Defence - NEWINGTON [10922]	NSW	In buffer area only
Defence - NEWINGTON [10820]	NSW	In buffer area only
Defence - NEWINGTON [10824]	NSW	In buffer area only
Defence - NEWINGTON [10827]	NSW	In buffer area only
Defence - NEWINGTON [10826]	NSW	In buffer area only
Defence - NEWINGTON [10278]	NSW	In buffer area only
Defence - NEWINGTON [10279]	NSW	In buffer area only
Defence - NEWINGTON [10781]	NSW	In buffer area only
Defence - NEWINGTON [10939]	NSW	In buffer area only
Defence - NEWINGTON [10928]	NSW	In buffer area only
Defence - NEWINGTON [10926]	NSW	In buffer area only
Defence - NEWINGTON [10929]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10489]	NSW	In buffer area only
Defence - NEWINGTON [10272]	NSW	In buffer area only
Defence - NEWINGTON [10273]	NSW	In buffer area only
Defence - NEWINGTON [10270]	NSW	In buffer area only
Defence - NEWINGTON [10271]	NSW	In buffer area only
Defence - NEWINGTON [10276]	NSW	In buffer area only
Defence - NEWINGTON [10277]	NSW	In buffer area only
Defence - NEWINGTON [10274]	NSW	In buffer area only
Defence - NEWINGTON [10275]	NSW	In buffer area only
Defence - NEWINGTON [10571]	NSW	In buffer area only
Defence - NEWINGTON [10484]	NSW	In buffer area only
Defence - NEWINGTON [10485]	NSW	In buffer area only
Defence - NEWINGTON [10486]	NSW	In buffer area only
Defence - NEWINGTON [10487]	NSW	In buffer area only
Defence - NEWINGTON [11036]	NSW	In buffer area only
Defence - NEWINGTON [11037]	NSW	In buffer area only
Defence - NEWINGTON [11034]	NSW	In buffer area only
Defence - NEWINGTON [11035]	NSW	In buffer area only
Defence - NEWINGTON [10553]	NSW	In buffer area only
Defence - NEWINGTON [11032]	NSW	In buffer area only
Defence - NEWINGTON [10550]	NSW	In buffer area only
Defence - NEWINGTON [11030]	NSW	In buffer area only
Defence - NEWINGTON [10250]	NSW	In buffer area only
Defence - NEWINGTON [10251]	NSW	In buffer area only
Defence - NEWINGTON [10252]	NSW	In buffer area only
Defence - NEWINGTON [10253]	NSW	In buffer area only
Defence - NEWINGTON [10471]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [11038]	NSW	In buffer area only
Defence - NEWINGTON [11039]	NSW	In buffer area only
Defence - NEWINGTON [10470]	NSW	In buffer area only
Defence - NEWINGTON [10281]	NSW	In buffer area only
Defence - NEWINGTON [10323]	NSW	In buffer area only
Defence - NEWINGTON [10322]	NSW	In buffer area only
Defence - NEWINGTON [11033]	NSW	In buffer area only
Defence - NEWINGTON [10255]	NSW	In buffer area only
Defence - NEWINGTON [10254]	NSW	In buffer area only
Defence - NEWINGTON [10321]	NSW	In buffer area only
Defence - NEWINGTON [10766]	NSW	In buffer area only
Defence - NEWINGTON [10765]	NSW	In buffer area only
Defence - NEWINGTON [10764]	NSW	In buffer area only
Defence - NEWINGTON [10482]	NSW	In buffer area only
Defence - NEWINGTON [10761]	NSW	In buffer area only
Defence - NEWINGTON [10760]	NSW	In buffer area only
Defence - NEWINGTON [10767]	NSW	In buffer area only
Defence - NEWINGTON [10994]	NSW	In buffer area only
Defence - NEWINGTON [11055]	NSW	In buffer area only
Defence - NEWINGTON [10991]	NSW	In buffer area only
Defence - NEWINGTON [10993]	NSW	In buffer area only
Defence - NEWINGTON [10996]	NSW	In buffer area only
Defence - NEWINGTON [10769]	NSW	In buffer area only
Defence - NEWINGTON [10995]	NSW	In buffer area only
Defence - NEWINGTON [10483]	NSW	In buffer area only
Defence - NEWINGTON [10990]	NSW	In buffer area only
Defence - NEWINGTON [10997]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10768]	NSW	In buffer area only
Defence - NEWINGTON [10987]	NSW	In buffer area only
Defence - NEWINGTON [10981]	NSW	In buffer area only
Defence - NEWINGTON [10982]	NSW	In buffer area only
Defence - NEWINGTON [10983]	NSW	In buffer area only
Defence - NEWINGTON [10546]	NSW	In buffer area only
Defence - NEWINGTON [10547]	NSW	In buffer area only
Defence - NEWINGTON [10742]	NSW	In buffer area only
Defence - NEWINGTON [10743]	NSW	In buffer area only
Defence - NEWINGTON [10543]	NSW	In buffer area only
Defence - NEWINGTON [10544]	NSW	In buffer area only
Defence - NEWINGTON [10541]	NSW	In buffer area only
Defence - NEWINGTON [10542]	NSW	In buffer area only
Defence - NEWINGTON [10540]	NSW	In buffer area only
Defence - NEWINGTON [10548]	NSW	In buffer area only
Defence - NEWINGTON [10327]	NSW	In buffer area only
Defence - NEWINGTON [10320]	NSW	In buffer area only
Defence - NEWINGTON [10328]	NSW	In buffer area only
Defence - NEWINGTON [10329]	NSW	In buffer area only
Defence - NEWINGTON [10324]	NSW	In buffer area only
Defence - NEWINGTON [10325]	NSW	In buffer area only
Defence - NEWINGTON [10326]	NSW	In buffer area only
Defence - NEWINGTON [10479]	NSW	In buffer area only
Defence - NEWINGTON [10989]	NSW	In buffer area only
Defence - NEWINGTON [10988]	NSW	In buffer area only
Defence - NEWINGTON [10478]	NSW	In buffer area only
Defence - NEWINGTON [10422]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10347]	NSW	In buffer area only
Defence - NEWINGTON [10346]	NSW	In buffer area only
Defence - NEWINGTON [10345]	NSW	In buffer area only
Defence - NEWINGTON [10344]	NSW	In buffer area only
Defence - NEWINGTON [10938]	NSW	In buffer area only
Defence - NEWINGTON [10633]	NSW	In buffer area only
Defence - NEWINGTON [10637]	NSW	In buffer area only
Defence - NEWINGTON [10636]	NSW	In buffer area only
Defence - NEWINGTON [10631]	NSW	In buffer area only
Defence - NEWINGTON [10630]	NSW	In buffer area only
Defence - NEWINGTON [10639]	NSW	In buffer area only
Defence - NEWINGTON [10638]	NSW	In buffer area only
Defence - NEWINGTON [10635]	NSW	In buffer area only
Defence - NEWINGTON [10634]	NSW	In buffer area only
Defence - NEWINGTON [10980]	NSW	In buffer area only
Defence - NEWINGTON [10632]	NSW	In buffer area only
Defence - NEWINGTON [10966]	NSW	In buffer area only
Defence - NEWINGTON [10387]	NSW	In buffer area only
Defence - NEWINGTON [10964]	NSW	In buffer area only
Defence - NEWINGTON [10967]	NSW	In buffer area only
Defence - NEWINGTON [10960]	NSW	In buffer area only
Defence - NEWINGTON [10968]	NSW	In buffer area only
Defence - NEWINGTON [11045]	NSW	In buffer area only
Defence - NEWINGTON [11044]	NSW	In buffer area only
Defence - NEWINGTON [11047]	NSW	In buffer area only
Defence - NEWINGTON [11040]	NSW	In buffer area only
Defence - NEWINGTON [11041]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [11042]	NSW	In buffer area only
Defence - NEWINGTON [11043]	NSW	In buffer area only
Defence - NEWINGTON [10808]	NSW	In buffer area only
Defence - NEWINGTON [10290]	NSW	In buffer area only
Defence - NEWINGTON [10520]	NSW	In buffer area only
Defence - NEWINGTON [10561]	NSW	In buffer area only
Defence - NEWINGTON [10523]	NSW	In buffer area only
Defence - NEWINGTON [10291]	NSW	In buffer area only
Defence - NEWINGTON [10921]	NSW	In buffer area only
Defence - NEWINGTON [10477]	NSW	In buffer area only
Defence - NEWINGTON [10524]	NSW	In buffer area only
Defence - NEWINGTON [10526]	NSW	In buffer area only
Defence - NEWINGTON [10315]	NSW	In buffer area only
Defence - NEWINGTON [10521]	NSW	In buffer area only
Defence - NEWINGTON [10590]	NSW	In buffer area only
Defence - NEWINGTON [10888]	NSW	In buffer area only
Defence - NEWINGTON [10443]	NSW	In buffer area only
Defence - NEWINGTON [10525]	NSW	In buffer area only
Defence - NEWINGTON [10889]	NSW	In buffer area only
Defence - NEWINGTON [10475]	NSW	In buffer area only
Defence - NEWINGTON [10476]	NSW	In buffer area only
Defence - NEWINGTON [10473]	NSW	In buffer area only
Defence - NEWINGTON [10474]	NSW	In buffer area only
Defence - NEWINGTON [10292]	NSW	In buffer area only
Defence - NEWINGTON [10574]	NSW	In buffer area only
Defence - NEWINGTON [10575]	NSW	In buffer area only
Defence - NEWINGTON [10259]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10576]	NSW	In buffer area only
Defence - NEWINGTON [10577]	NSW	In buffer area only
Defence - NEWINGTON [10282]	NSW	In buffer area only
Defence - NEWINGTON [10578]	NSW	In buffer area only
Defence - NEWINGTON [10283]	NSW	In buffer area only
Defence - NEWINGTON [10579]	NSW	In buffer area only
Defence - NEWINGTON [10529]	NSW	In buffer area only
Defence - NEWINGTON [10528]	NSW	In buffer area only
Defence - NEWINGTON [10472]	NSW	In buffer area only
Defence - NEWINGTON [10287]	NSW	In buffer area only
Defence - NEWINGTON [10286]	NSW	In buffer area only
Defence - NEWINGTON [10285]	NSW	In buffer area only
Defence - NEWINGTON [10284]	NSW	In buffer area only
Defence - NEWINGTON [10522]	NSW	In buffer area only
Defence - NEWINGTON [10570]	NSW	In buffer area only
Defence - NEWINGTON [10573]	NSW	In buffer area only
Defence - NEWINGTON [10572]	NSW	In buffer area only
Defence - NEWINGTON [10809]	NSW	In buffer area only
Defence - NEWINGTON [10992]	NSW	In buffer area only
Defence - NEWINGTON [10447]	NSW	In buffer area only
Defence - NEWINGTON [10318]	NSW	In buffer area only
Defence - NEWINGTON [10880]	NSW	In buffer area only
Defence - NEWINGTON [10881]	NSW	In buffer area only
Defence - NEWINGTON [10442]	NSW	In buffer area only
Defence - NEWINGTON [10312]	NSW	In buffer area only
Defence - NEWINGTON [10313]	NSW	In buffer area only
Defence - NEWINGTON [10444]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10319]	NSW	In buffer area only
Defence - NEWINGTON [10445]	NSW	In buffer area only
Defence - NEWINGTON [10818]	NSW	In buffer area only
Defence - NEWINGTON [10317]	NSW	In buffer area only
Defence - NEWINGTON [10316]	NSW	In buffer area only
Defence - NEWINGTON [10311]	NSW	In buffer area only
Defence - NEWINGTON [10310]	NSW	In buffer area only
Defence - NEWINGTON [10883]	NSW	In buffer area only
Defence - NEWINGTON [10882]	NSW	In buffer area only
Defence - NEWINGTON [10885]	NSW	In buffer area only
Defence - NEWINGTON [10314]	NSW	In buffer area only
Defence - NEWINGTON [10959]	NSW	In buffer area only
Defence - NEWINGTON [10936]	NSW	In buffer area only
Defence - NEWINGTON [10455]	NSW	In buffer area only
Defence - NEWINGTON [10899]	NSW	In buffer area only
Defence - NEWINGTON [10450]	NSW	In buffer area only
Defence - NEWINGTON [11048]	NSW	In buffer area only
Defence - NEWINGTON [10696]	NSW	In buffer area only
Defence - NEWINGTON [10695]	NSW	In buffer area only
Defence - NEWINGTON [10694]	NSW	In buffer area only
Defence - NEWINGTON [10958]	NSW	In buffer area only
Defence - NEWINGTON [10692]	NSW	In buffer area only
Defence - NEWINGTON [10691]	NSW	In buffer area only
Defence - NEWINGTON [10690]	NSW	In buffer area only
Defence - NEWINGTON [10697]	NSW	In buffer area only
Defence - NEWINGTON [10598]	NSW	In buffer area only
Defence - NEWINGTON [10896]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10518]	NSW	In buffer area only
Defence - NEWINGTON [10894]	NSW	In buffer area only
Defence - NEWINGTON [10897]	NSW	In buffer area only
Defence - NEWINGTON [10892]	NSW	In buffer area only
Defence - NEWINGTON [10895]	NSW	In buffer area only
Defence - NEWINGTON [10257]	NSW	In buffer area only
Defence - NEWINGTON [10893]	NSW	In buffer area only
Defence - NEWINGTON [10890]	NSW	In buffer area only
Defence - NEWINGTON [10891]	NSW	In buffer area only
Defence - NEWINGTON [10449]	NSW	In buffer area only
Defence - NEWINGTON [10898]	NSW	In buffer area only
Defence - NEWINGTON [10812]	NSW	In buffer area only
Defence - NEWINGTON [10597]	NSW	In buffer area only
Defence - NEWINGTON [10594]	NSW	In buffer area only
Defence - NEWINGTON [10595]	NSW	In buffer area only
Defence - NEWINGTON [10256]	NSW	In buffer area only
Defence - NEWINGTON [10593]	NSW	In buffer area only
Defence - NEWINGTON [10962]	NSW	In buffer area only
Defence - NEWINGTON [10877]	NSW	In buffer area only
Defence - NEWINGTON [10870]	NSW	In buffer area only
Defence - NEWINGTON [10875]	NSW	In buffer area only
Defence - NEWINGTON [10876]	NSW	In buffer area only
Defence - NEWINGTON [10454]	NSW	In buffer area only
Defence - NEWINGTON [10457]	NSW	In buffer area only
Defence - NEWINGTON [10456]	NSW	In buffer area only
Defence - NEWINGTON [10510]	NSW	In buffer area only
Defence - NEWINGTON [10511]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10512]	NSW	In buffer area only
Defence - NEWINGTON [10513]	NSW	In buffer area only
Defence - NEWINGTON [10453]	NSW	In buffer area only
Defence - NEWINGTON [10519]	NSW	In buffer area only
Defence - NEWINGTON [10459]	NSW	In buffer area only
Defence - NEWINGTON [10452]	NSW	In buffer area only
Defence - NEWINGTON [10612]	NSW	In buffer area only
Defence - NEWINGTON [10879]	NSW	In buffer area only
Defence - NEWINGTON [10878]	NSW	In buffer area only
Defence - NEWINGTON [10258]	NSW	In buffer area only
Defence - NEWINGTON [10873]	NSW	In buffer area only
Defence - NEWINGTON [10872]	NSW	In buffer area only
Defence - NEWINGTON [10871]	NSW	In buffer area only
Defence - NEWINGTON [10693]	NSW	In buffer area only
Defence - NEWINGTON [10698]	NSW	In buffer area only
Defence - NEWINGTON [10699]	NSW	In buffer area only
Defence - NEWINGTON [10299]	NSW	In buffer area only
Defence - NEWINGTON [10298]	NSW	In buffer area only
Defence - NEWINGTON [10517]	NSW	In buffer area only
Defence - NEWINGTON [10446]	NSW	In buffer area only
Defence - NEWINGTON [10295]	NSW	In buffer area only
Defence - NEWINGTON [10294]	NSW	In buffer area only
Defence - NEWINGTON [10297]	NSW	In buffer area only
Defence - NEWINGTON [10296]	NSW	In buffer area only
Defence - NEWINGTON [11012]	NSW	In buffer area only
Defence - NEWINGTON [11015]	NSW	In buffer area only
Defence - NEWINGTON [10516]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [11014]	NSW	In buffer area only
Defence - NEWINGTON [10515]	NSW	In buffer area only
Defence - NEWINGTON [11017]	NSW	In buffer area only
Defence - NEWINGTON [10514]	NSW	In buffer area only
Defence - NEWINGTON [11011]	NSW	In buffer area only
Defence - NEWINGTON [11010]	NSW	In buffer area only
Defence - NEWINGTON [11013]	NSW	In buffer area only
Defence - NEWINGTON [10856]	NSW	In buffer area only
Defence - NEWINGTON [10998]	NSW	In buffer area only
Defence - NEWINGTON [10289]	NSW	In buffer area only
Defence - NEWINGTON [10854]	NSW	In buffer area only
Defence - NEWINGTON [10857]	NSW	In buffer area only
Defence - NEWINGTON [10874]	NSW	In buffer area only
Defence - NEWINGTON [11016]	NSW	In buffer area only
Defence - NEWINGTON [10852]	NSW	In buffer area only
Defence - NEWINGTON [10552]	NSW	In buffer area only
Defence - NEWINGTON [11019]	NSW	In buffer area only
Defence - NEWINGTON [10558]	NSW	In buffer area only
Defence - NEWINGTON [10999]	NSW	In buffer area only
Defence - NEWINGTON [10965]	NSW	In buffer area only
Defence - NEWINGTON [10853]	NSW	In buffer area only
Defence - RAAF STORES DEPOT REGENTS PARK [10008]	NSW	In buffer area only
Defence - RAAF STORES DEPOT REGENTS PARK [10009]	NSW	In buffer area only
Defence - ROCKDALE TRAINING DEPOT [11111]	NSW	In buffer area only
Defence - VILLAWOOD - MOTOR REPAIR W/SHP (VILLAWOOD GEMS BASE) [10231]	NSW	In buffer area only
Defence - Defence Housing Authority		
Commonwealth Land - Defence Housing Authority [16093]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [16045]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14470]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14380]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15711]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15712]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13096]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16356]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14411]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14441]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14447]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14446]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13053]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14419]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15956]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14449]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14448]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16058]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16048]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14464]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16132]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16133]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16117]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16056]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14403]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14456]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14457]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [14453]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14450]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14469]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14459]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16134]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16135]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14454]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14455]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14467]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15944]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15945]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15887]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14461]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14462]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16491]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13011]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14468]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16046]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16047]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14474]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14423]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14424]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13865]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14480]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13863]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14483]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14479]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14427]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14413]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13004]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14478]	NSW	In buffer area only
Commonwealth Land - War Service Homes Commissioner [13015]	NSW	In buffer area only
Transport and Regional Services - Airservices Australia		
Commonwealth Land - Airservices Australia [13098]	NSW	In buffer area only
Commonwealth Land - Airservices Australia [14465]	NSW	In buffer area only
Commonwealth Land - Airservices Australia [14389]	NSW	In buffer area only
Unknown		
Commonwealth Land - [15459]	NSW	In buffer area only
Commonwealth Land - [16160]	NSW	In buffer area only
Commonwealth Land - [16472]	NSW	In buffer area only
Commonwealth Land - [13013]	NSW	In buffer area only
Commonwealth Land - [15729]	NSW	In buffer area only
Commonwealth Land - [14394]	NSW	In buffer area only
Commonwealth Land - [16420]	NSW	In buffer area only
Commonwealth Land - [13468]	NSW	In buffer area only
Commonwealth Land - [13465]	NSW	In buffer area only
Commonwealth Land - [13466]	NSW	In buffer area only
Commonwealth Land - [14386]	NSW	In buffer area only
Commonwealth Land - [14387]	NSW	In buffer area only
Commonwealth Land - [14398]	NSW	In buffer area only
Commonwealth Land - [14371]	NSW	In buffer area only
Commonwealth Land - [14370]	NSW	In buffer area only
Commonwealth Land - [14420]	NSW	In buffer area only
Commonwealth Land - [15689]	NSW	In buffer area only
Commonwealth Land - [15688]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [16361]	NSW	In buffer area only
Commonwealth Land - [16159]	NSW	In buffer area only
Commonwealth Land - [13848]	NSW	In buffer area only
Commonwealth Land - [12926]	NSW	In buffer area only
Commonwealth Land - [15434]	NSW	In buffer area only
Commonwealth Land - [13122]	NSW	In buffer area only
Commonwealth Land - [15435]	NSW	In buffer area only
Commonwealth Land - [14390]	NSW	In buffer area only
Commonwealth Land - [14393]	NSW	In buffer area only
Commonwealth Land - [14392]	NSW	In buffer area only
Commonwealth Land - [14396]	NSW	In buffer area only
Commonwealth Land - [14397]	NSW	In buffer area only
Commonwealth Land - [14382]	NSW	In buffer area only
Commonwealth Land - [13859]	NSW	In buffer area only
Commonwealth Land - [13858]	NSW	In buffer area only
Commonwealth Land - [15690]	NSW	In buffer area only
Commonwealth Land - [15530]	NSW	In buffer area only
Commonwealth Land - [15539]	NSW	In buffer area only
Commonwealth Land - [14400]	NSW	In buffer area only
Commonwealth Land - [14401]	NSW	In buffer area only
Commonwealth Land - [13017]	NSW	In buffer area only
Commonwealth Land - [13016]	NSW	In buffer area only
Commonwealth Land - [11160]	NSW	In buffer area only
Commonwealth Land - [13847]	NSW	In buffer area only
Commonwealth Land - [14395]	NSW	In buffer area only
Commonwealth Land - [16161]	NSW	In buffer area only
Commonwealth Land - [14538]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [14369]	NSW	In buffer area only

Commonwealth Heritage Places		[Resource Information]	
Name	State	Status	Buffer Status
Historic			
Bankstown Airport Air Traffic Control Tower	NSW	Listed place	In buffer area only
Marrickville Post Office	NSW	Listed place	In buffer area only
Snapper Island	NSW	Listed place	In buffer area only
Villawood Immigration Centre	NSW	Listed place	In buffer area only
Villawood Immigration Centre - former boundary	NSW	Within listed place	In buffer area only

Indigenous			
Cubbitch Barta National Estate Area	NSW	Listed place	In buffer area only

Listed Marine Species		[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardenna carneipes as Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Ardenna grisea as Puffinus griseus Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris pugnax as Philomachus pugnax Ruff [91256]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Calidris ruficollis Red-necked Stint [860]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Charadrius ruficapillus Red-capped Plover [881]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea antipodensis gibsoni as Diomedea gibsoni Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In buffer area only
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area	In buffer area only
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Gallinago megala Swinhoe's Snipe [864]		Foraging, feeding or related behaviour likely to occur within area overfly marine area	In buffer area only
Gallinago stenura Pin-tailed Snipe [841]		Foraging, feeding or related behaviour likely to occur within area overfly marine area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Breeding known to occur within area	In feature area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]	Endangered	Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Neophema chrysostoma Blue-winged Parrot [726]	Vulnerable	Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Foraging, feeding or related behaviour likely to occur within area overfly marine area	In buffer area only
Numenius phaeopus Whimbrel [849]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In buffer area only
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Pterodroma cervicalis White-necked Petrel [59642]		Species or species habitat may occur within area	In feature area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Sterna striata White-fronted Tern [799]		Foraging, feeding or related behaviour likely to occur within area	In feature area
Sternula albifrons as Sterna albifrons Little Tern [82849]		Breeding likely to occur within area	In buffer area only
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche bulleri platei as Thalassarche sp. nov. Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche eremita Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Tringa brevipes as Heteroscelus brevipes Grey-tailed Tattler [851]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In buffer area only
Fish			
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area	In buffer area only
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area	In buffer area only
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]	Endangered	Species or species habitat may occur within area	In buffer area only
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In buffer area only
Hippocampus abdominalis Big-belly Seahorse, Eastern Potbelly Seahorse, New Zealand Potbelly Seahorse [66233]		Species or species habitat may occur within area	In buffer area only
Hippocampus whitei White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]		Species or species habitat known to occur within area	In buffer area only
Histiogamphelus briggsii Crested Pipefish, Briggs' Crested Pipefish, Briggs' Pipefish [66242]		Species or species habitat may occur within area	In buffer area only
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area	In buffer area only
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area	In buffer area only
Notiocampus ruber Red Pipefish [66265]		Species or species habitat may occur within area	In buffer area only
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]	Endangered	Species or species habitat may occur within area	In buffer area only
Solegnathus spinosissimus Spiny Pipehorse, Australian Spiny Pipehorse [66275]		Species or species habitat may occur within area	In buffer area only
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area	In buffer area only
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area	In buffer area only
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area	In buffer area only
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In buffer area only
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area	In buffer area only
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In buffer area only
Mammal			
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area	In buffer area only
Arctocephalus pusillus Australian Fur-seal, Australo-African Fur-seal [21]		Species or species habitat may occur within area	In buffer area only
Dugong dugon Dugong [28]		Species or species habitat may occur within area	In buffer area only
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Hydrophis platura as Pelamis platurus Yellow-bellied Sea Snake [93746]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Whales and Other Cetaceans			[Resource Information]
Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area	In buffer area only
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In buffer area only
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In buffer area only
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In buffer area only

Extra Information

State and Territory Reserves		[Resource Information]	
Protected Area Name	Reserve Type	State	Buffer Status
Georges River	National Park	NSW	In buffer area only
Newington	Nature Reserve	NSW	In buffer area only
Parramatta River	Regional Park	NSW	In buffer area only
Sydney Harbour	National Park	NSW	In buffer area only
Wolli Creek	Regional Park	NSW	In buffer area only

Nationally Important Wetlands		[Resource Information]	
Wetland Name		State	Buffer Status
Bicentennial Park		NSW	In buffer area only
Eve St. Marsh, Arncliffe		NSW	In buffer area only
Newington Wetlands		NSW	In buffer area only

EPBC Act Referrals		[Resource Information]		
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Parramatta Light Rail Stage 2	2022/09300		Post-Approval	In buffer area only
Riverlands Shared Pathway	2023/09665		Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Upper South Creek Advanced Water Recycling Centre	2020/8816		Post-Approval	In buffer area only
Controlled action				
Construction and operation of the Westconnex New M5, Sydney, NSW	2015/7520	Controlled Action	Post-Approval	In buffer area only
Cook Cove Southern Precinct development, Sydney, NSW	2016/7767	Controlled Action	Post-Approval	In buffer area only
Cooks Cove Development Project	2006/2685	Controlled Action	Post-Approval	In buffer area only
Development of an Aged Care Facility	2007/3660	Controlled Action	Post-Approval	In buffer area only
Lyn Parade Extension	2004/1392	Controlled Action	Post-Approval	In buffer area only
Phase 2 of the Villawood Immigration Detention Facility Redevelopment Project	2011/5947	Controlled Action	Post-Approval	In buffer area only
Sand Reclamation to Towra Beach	2003/1085	Controlled Action	Post-Approval	In buffer area only
Shell Clyde Terminal Expansion, Rosehill, NSW	2013/6878	Controlled Action	Post-Approval	In buffer area only
South Sydney Freight Rail Line	2005/2393	Controlled Action	Post-Approval	In buffer area only
Widening three roads and construction of an access road to Bankstown Business Estate development	2016/7719	Controlled Action	Completed	In buffer area only
Not controlled action				
2A and 2B Mavis Street, Revesby	2020/8665	Not Controlled Action	Completed	In buffer area only
BP/Mobil Pipeline to Kingsford Smith Airport	2000/104	Not Controlled Action	Completed	In buffer area only
Bushfire risk reduction works Rookwood Cemetery	2007/3835	Not Controlled Action	Completed	In buffer area only
Clyde Barging Facility, Grand Avenue, Rosehill, NSW	2018/8140	Not Controlled Action	Completed	In buffer area only
construct access road and install underground water main	2005/2299	Not Controlled Action	Completed	In buffer area only
Construction, operation and maintenance of a new zone substation	2011/5901	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Construction and Operation of the Parramatta Rail Link - between Parramatta and	2002/673	Not Controlled Action	Completed	In buffer area only
construction of a road linking Newbridge Road and Nuwarra Road	2004/1843	Not Controlled Action	Completed	In buffer area only
Cox's Creek Reserve	2001/409	Not Controlled Action	Completed	In buffer area only
Decommissioning of Army Depot, Haberfield	2001/217	Not Controlled Action	Completed	In buffer area only
Decommissioning of the Australia Post Mail Distribution Centre	2002/612	Not Controlled Action	Completed	In buffer area only
Demolition of Ablutions Block, Snapper Island, NSW	2018/8303	Not Controlled Action	Completed	In buffer area only
Demolition of redundant buildings at the Villawood Immigration Detention Centre	2001/403	Not Controlled Action	Completed	In buffer area only
Development of an Intermodal Terminal for containerised freight at the former En	2002/622	Not Controlled Action	Completed	In feature area
Development of Surplus Land at the Potts Hill Reservoirs Site for Residential an	2009/4962	Not Controlled Action	Completed	In buffer area only
Enfield Industrial Subdivision	2007/3727	Not Controlled Action	Completed	In feature area
Environmental Works	2001/396	Not Controlled Action	Completed	In buffer area only
Extension to Lucas Heights production building	2003/1114	Not Controlled Action	Completed	In buffer area only
Fuel Reduction Proposal Redfield Road, East Killara	2003/1238	Not Controlled Action	Completed	In buffer area only
Georges River Program 2	2003/999	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Industrial Subdivision	2004/1859	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Install Window Air-Conditioning Unit to Building 2, 361 Milperra Rd, Bankstown, NSW	2013/7107	Not Controlled Action	Completed	In buffer area only
Noxious weed removal and controlled burn	2003/1272	Not Controlled Action	Completed	In buffer area only
Parramatta Light Rail (Stage 1) - Westmead to Carlingford, via Parramatta CBD	2017/7966	Not Controlled Action	Completed	In buffer area only
Rabbit Control Anzac Rifle Range	2005/1940	Not Controlled Action	Completed	In buffer area only
Rehabilitation works of the Coogee Sewer Diversion Submain - Maxwell Avenue, Mar	2004/1683	Not Controlled Action	Completed	In buffer area only
Remediation of Contaminated Buildings	2005/1983	Not Controlled Action	Completed	In buffer area only
Remediation of Contaminated Soil	2005/1985	Not Controlled Action	Completed	In buffer area only
Residential subdivision, cnr Doris Hirst Place and Highs Road	2005/2392	Not Controlled Action	Completed	In buffer area only
Residential sub-division on Lot 3041, Monash Road, Menai, NSW	2012/6441	Not Controlled Action	Completed	In buffer area only
Residential subdivision works, Spurway St, Ermington	2003/1130	Not Controlled Action	Completed	In buffer area only
Shipment of Spent Nuclear Fuel to USA	2007/3672	Not Controlled Action	Completed	In buffer area only
Staged Revelopment of Riverlands Golf Club Site	2008/4464	Not Controlled Action	Completed	In buffer area only
subdivision and development on the Rhodes Peninsula for residential and commerci	2003/1249	Not Controlled Action	Completed	In feature area
Subdivision and sale of Commonwealth land in Pymble to Ku-ring-gai City Council	2004/1368	Not Controlled Action	Completed	In buffer area only
Subdivision for warehouse construction	2000/119	Not Controlled Action	Completed	In buffer area only
Sydney Desalination Plant	2005/2331	Not Controlled Action	Completed	In buffer area only
Sydney Metro Network Stage 2	2010/5307	Not Controlled Action	Completed	In buffer area only
Sydney Primary Loop Gas Pipeline	2006/2622	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Undertake a controlled burn of the Eastern Suburbs Banksia Scrub at Byrne Cresce	2004/1728	Not Controlled Action	Completed	In buffer area only
V8 Supercars "Sydney 400" Event	2009/4782	Not Controlled Action	Completed	In buffer area only
Widening of the M5 Southwest Motorway	2010/5665	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Rhodes 132/11 kV Zone Substation	2010/5779	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Site 68, Sydney Olympic Park mixed development, Homebush, NSW	2015/7445	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Villawood Immigration Detention Centre Redevelopment	2006/2725	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
Breeding program for Grey Nurse Sharks	2007/3245	Referral Decision	Completed	In buffer area only
Construction, operation and maintenance of a new zone substation	2011/5897	Referral Decision	Completed	In buffer area only
Relocation of Grey-Headed Flying-Fox Colony	2008/4568	Referral Decision	Completed	In buffer area only
Summer Hill Flour Mills Residential & Commercial development	2011/5859	Referral Decision	Completed	In buffer area only
Biologically Important Areas [Resource Information]				
Scientific Name		Behaviour	Presence	Buffer Status
Dolphins				
Tursiops aduncus				
Indo-Pacific/Spotted Bottlenose Dolphin [68418]		Breeding	Likely to occur	In buffer area only
Sharks				
Carcharias taurus				
Grey Nurse Shark [64469]		Foraging	Known to occur	In buffer area only

Scientific Name		Behaviour	Presence	Buffer Status
Bioregional Assessments			[<u>Resource Information</u>]	
SubRegion	BioRegion	Website		Buffer Status
Sydney	Sydney Basin	BA website		In feature area

Caveat

1 PURPOSE

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

The report contains the mapped locations of:

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

2 DISCLAIMER

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

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

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

[© Commonwealth of Australia](#)

Department of Climate Change, Energy, the Environment and Water

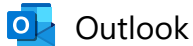
GPO Box 3090

Canberra ACT 2601 Australia

+61 2 6274 1111

Appendix C

Email consultation with Frog and Tadpole Study Group of NSW Inc



Re: Green and Golden Bell frogs Greenacre

From Nicole McVicar <nmcvicar@emmconsulting.com.au>

Date Fri 2/14/2025 1:28 PM

To Arthur White <arfawhite@gmail.com>

Cc Justin Chey <jchey@emmconsulting.com.au>

Hi Arthur,

Thank you very much for such an interesting and detailed email. I just want to chat further with the project team and we'll be in touch again. Justin, cc'ed above is the project manager for this job, so please include him in any future correspondence.

Kind Regards,

Nicole

Nicole McVicar

Associate Ecologist – Team Leader

M 0439 615 753

www.emmconsulting.com.au

From: Arthur White <arfawhite@gmail.com>

Sent: Thursday, February 13, 2025 10:24 PM

To: Nicole McVicar <nmcvicar@emmconsulting.com.au>

Subject: Green and Golden Bell frogs Greenacre

You don't often get email from arfawhite@gmail.com. [Learn why this is important](#)

CAUTION: This email originated outside of the Organisation.

Dear Nicole

Thanks for your email. As you are probably aware the Frog and Tadpole Study Group manages a conservation area of the Green and Golden Bell Frog at Greenacre. This site was established in 2000 and Bell frog have been present at the site ever since. The site provides all of the essential habitat components for this frog species (ie breeding habitat, diurnal shelter habitat, foraging habitat and over-winter habitat. It is not a closed site ie. Bell Frogs are able to enter and leave the site whenever they want to.

Green and Golden Bell Frogs are a highly mobile species and disperse around the Greenacre-Enfield- Strathfield area. Their movements are often unpredictable with frogs being absent from an area for a few years and then returning to occupy the site for some time.

You specifically asked about the movements of the juvenile frogs at Greenacre. There are only two places where the frogs can breed- at Coxs Creek reserve and at the GGBF Conservation Area at 1Z Bell frog Road Greenacre. The majority of breeding events have taken place at the Greenacre site since it was constructed and juvenile Bell frogs reach metamorphosis in late summer and then disperse from the site in all directions. Their dispersal is undirected and so quite a few of the juvenile frogs end up in unsuitable areas and may die. In general, most of the successful movements appear to be eastwards from the site, to the Coxs Creek canal or on to the Enfield Marshalling Yards. From there, the juvenile frogs again disperse in all directions with a small number finding suitable habitat and survive to return to the site as young adult frogs later in the year. The juvenile period is the time from widespread dispersal in this species and the young frogs will cross roads (and rail tracks) to get to where they are heading. In general, they try to avoid areas that are dry and dusty or have high night light intensity.

As to the presence of adult frog movements in the area, we are a little bit better informed. There is a steady movement stream of Bell frogs between the Greenacre site and the Coxs Creek Reserve. While frog sightings between these two sites is limited, it appears that the adult frogs are using two movement corridors. There is an overland corridor that exits Coxs Creek Reserve and runs parallel with Drone Street eastwards. From there, the frogs have to cross industrial land to get into the GGBF Conservation Area at Greenacre. The second movement corridor is mostly subterranean- this corridor uses the culvert system that runs from the Coxs Creek reserve to the western boundary of the Enfield Marshalling Yards. The Coxs Creek culvert system appears to be used less often than the overland route. Returning frogs. ie from the Greenacre Conservation Area to Coxs Creek Reserve, seem to only use the overland route. Nearly all of the frog movement is at night, but sometimes, during sustained wet weather, they will disperse under overcast skies.

Bell frogs may occasionally pass through the Aussie Recycling site, but if they do so it will be because they have moved along the top of the Coxs Creek Canal and entered the site from the north. I agree that you will need to put in place barriers to stop the Bell Frogs from getting onto your site. I think it would be best if we spoke directly about some of the possible measures that you could use. You could either email me at this address or ring me on 9599 1161.

Yours Sincerely

Arthur White
Frog and Tadpole Study Group of NSW (FATS)

Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering.

<https://www.mailguard.com.au/mg>

[Report this message as spam](#)

Australia

SYDNEY

Level 10 201 Pacific Highway
St Leonards NSW 2065
T 02 9493 9500

NEWCASTLE

Level 3 175 Scott Street
Newcastle NSW 2300
T 02 4907 4800

BRISBANE

Level 1 87 Wickham Terrace
Spring Hill QLD 4000
T 07 3648 1200

CANBERRA

Suite 2.04 Level 2
15 London Circuit
Canberra City ACT 2601

ADELAIDE

Level 4 74 Pirie Street
Adelaide SA 5000
T 08 8232 2253

MELBOURNE

Suite 9.01 Level 9
454 Collins Street
Melbourne VIC 3000
T 03 9993 1900

PERTH

Suite 3.03
111 St Georges Terrace
Perth WA 6000
T 08 6430 4800

Canada

TORONTO

2345 Yonge Street Suite 300
Toronto ON M4P 2E5
T 647 467 1605

VANCOUVER

2015 Main Street
Vancouver BC V5T 3C2
T 604 999 8297

CALGARY

700 2nd Street SW Floor 19
Calgary AB T2P 2W2



[linkedin.com/company/emm-consulting-pty-limited](https://www.linkedin.com/company/emm-consulting-pty-limited)



emmconsulting.com.au