

PROJECT BOOST

Baulkham Hills BESS – Scoping Report

AUSCONNEX

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Executive summary

Introduction

Ausconnex is planning to develop, construct and operate a grid-scale high voltage (HV) Battery Energy Storage System (BESS) with a capacity of up to 100 megawatts (MW)/ 200 megawatt hours (MWh) and associated infrastructure in Old Toongabbie, New South Wales (NSW). The BESS proposal is known as “the Baulkham Hills BESS project”.

BESS projects are a secure way of supplying electricity, designed to support decarbonisation of the existing grid scaled electricity supply system in NSW. Importantly, as the penetration of renewable generation increases into the future, BESS projects are critical to ensuring reliable access to a greener and cleaner future for everyone. BESS projects use rechargeable lithium-ion batteries to store and distribute electricity on demand. The BESS draws charge during periods of low electricity demand. The stored energy is retained within the BESS units and then released back into the grid during periods of higher energy demand. This helps to ensure energy security within local communities, including households and businesses. The Baulkham Hills BESS project would contribute materially to NSW’s State objective for zero emissions by 2050 to accelerate transition to renewable electricity from reliance on coal fired power.

The Baulkham Hills BESS project is proposed within the Parramatta City Council Local Government Area (PLGA) in Western Sydney, approximately 25 kilometres (km) west of the Sydney Central Business District (CBD). The 0.4 hectares (ha) Baulkham Hills BESS installation is proposed on the eastern side within the existing 1.23 ha Baulkham Hills Transmission Substation site at 191Z Old Windsor Road, Old Toongabbie (Lot 1 DP 7800500) (here in referred to as ‘the indicative development footprint’).

The indicative development footprint is located on land zoned E4 General Industrial and a minor area for site access (within an existing easement) of SP2 Infrastructure under Parramatta Local Environmental Plan 2023 (PLEP 2023). Surrounding areas bordering the indicative development footprint include Toongabbie Creek and Toongabbie Government Farm Archaeological Site (Listing No: 01903) to the north, industrial development to the south and east, and Old Windsor Road to the southwest. Old Windsor Road is three to four lanes each direction and is classified as a State road (zoned SP2 – Infrastructure) under the *Roads Act 1993*. Surrounding land uses include RE1 – Public Recreation to the north, E4 – General Industrial to the east, and south; R2 – Low Density Residential and R3 – Medium Density Residential to the west across Old Windsor Road.

The indicative development footprint is currently maintained as mown grass and planted native and non-native trees (refer to Figure 1-1).

The NSW Minister of Planning and Public Spaces or his delegate is the determining authority as the proposal (State Significant Development) is for private infrastructure with a capital investment value of greater than \$30 million. The estimated development cost of the Baulkham Hills HV BESS project is between \$130 million and \$150 million.



Figure 1-1: Project location and local context

Project summary

The Baulkham Hills BESS project would involve the development, construction, operation and decommissioning of a grid-scale HV BESS (40 megapack battery units) with a capacity to supply up to 100 MW of power and the ability to store up to 200 MW hours of energy.

The Baulkham Hills BESS project is proposed to be located within Endeavour Energy landholdings, comprising 0.4ha in area, adjoining the existing Baulkham Hills Transmission Substation at Baulkham Hills.

The Baulkham Hills BESS project would include the following key components:

- electrical infrastructure including:
 - a 100 MW/ 200 MWh HV BESS comprised of 40 lithium-ion battery modules installed in MV/ Step Up Transformers, Ring Main Units (RMUs) and harmonic filters (need and location to be confirmed during further design development);
 - 33 kV switch room and control room;
 - installation of 2 x 33 kV underground cables to connecting the HV BESS to the Baulkham Hills Transmission Substation (grid connection);
 - two new feeder bays at the 33 kV busbar within the Baulkham Hills substation
 - ancillary infrastructure (integrated alternating and variable current (AC) power inverter for each battery module); and
 - existing 33 kV overhead transmission line belonging to the feeder 472 to be replaced with an underground cable traversing the eastern boundary of the Baulkham Hills Transmission Substation.
- other permanent ancillary infrastructure including:
 - minor excavation and earth grading and levelling works to enable installation of concrete pads for the HV BESS modules and associated infrastructure;
 - operation and maintenance building;
 - worker car parking;
 - perimeter security fencing, lighting, signage and lightning protection;
 - on-site security systems, including security card reader at the main substation entrance, pole mounted security cameras and a security cabinet (located within the existing service building);
 - fire detection and suppression equipment, including as extension to the existing fire hydrant to support the proposed Baulkham Hills BESS;
 - sealed existing gravel access road (10 m wide x 150m long) from the southbound land of Old Windsor Road (south of site) to the HV BESS site;
 - formalised underground stormwater network, and provision for water detention (with valve installed between dam and existing drainage to control flow, retain firewater, for stormwater/firewater quality treatment) prior to discharge;
 - switchyard light box (mounted to the existing service building)
 - vegetation/ tree replacement (as required); and
 - potential noise barrier (pending detailed noise impact assessment).
- temporary construction facilities including:
 - site office;
 - construction compound and laydown areas; and
 - stormwater and sediment controls for the indicative development footprint.

Strategic Context

Ausconnex plans to deliver large scale battery storage on existing substation land across five Local Government Areas (LGAs) of Greater Sydney, leased from the electrical infrastructure operator, Endeavour Energy. Endeavour Energy will remain as operator of the electrical infrastructure at all substation sites.

This undertaking has been named 'Project Boost'.

- Project Boost will support the energy network by diversifying supply between local resources and renewable generation across the National Electricity Market (NEM).
- Project Boost aligns with the NSW Government's prioritising of renewable energy projects (outlined in the NSW Government Energy Policy Framework 2024) and would contribute to achieving net zero emissions by 2050.

The introduction of BESS projects in the electricity marketplace is an effective way to help drive the State's objective of delivering reliable electricity at lower prices for consumers in the longer term. The Baulkham Hills BESS project, providing energy storage for metropolitan Sydney and beyond, strikes the right balance between supporting renewable energy projects and responsible development in line with strategic and statutory planning frameworks.

The Baulkham Hills BESS project will provide energy storage support to the growing demand for alternative energy resources and will:

- have the flexibility to dispatch energy during peak demands or at critical times to support the grid;
- improve service reliability by reducing the risk of power disruptions and outages associated with reliance on renewable energies from decommissioning of power stations servicing the grid; and
- store excess solar generation and then export it direct to customers.

Statutory framework

The project site is approximately 1.23 ha in area and contains the indicative development footprint and the existing electricity infrastructure (substation, transmission towers and overhead wires) associated with the existing Baulkham Hills transmission substation use. The indicative development footprint is directly located on land zoned E4 General Industrial.

The HV BESS proposal, relies on SEPP (Transport and Infrastructure) 2021 for its definition and permissibility. Further, the development has a capital investment of greater than \$30 million and is specified in Schedule 1 (Clause 20) of the State Environmental Planning Policy (Planning Systems) 2021 (Planning System SEPP). As such, under Division 4 Section 2.6 of the State Environmental Planning Policy (Planning Systems) 2021 (Planning Systems SEPP), the Baulkham Hills BESS project is declared State Significant Development (SSD).

The planning approval pathway for the Baulkham Hills BESS project is via an application to the Department of Planning, Housing and Infrastructure (DPHI) as an SSD for the purposes of Part 4.36 of *Environmental Planning and Assessment Act 1979* (EP&A Act), with the Minister of Planning and Public Spaces or their delegate as the consent authority.

This Baulkham Hills BESS project Scoping Report has been prepared to provide a clear understanding of the key matters and issues related to the HV BESS project at this preliminary stage to enable more specific SEARs being issued for the project. Once SEARs have been issued by the DPHI, an Environmental Impact Statement (EIS) will then be prepared. EIS documentation will accompany the development application for the Baulkham Hills BESS project to public exhibition.

The Applicant acknowledges the need for the EIS to be prepared in accordance with Section 4.12(8) of the EP&A Act and to meet the requirements of Schedule 2 of the Environmental Planning and Assessment Regulation 2021 (the EP&A Regulation) including any other relevant legislative requirements that relate to the EIS.

Engagement

To support the increase of renewable energy in the electricity network, Ausconnex acknowledges consultation and engagement with project stakeholders and the local community will be a key consideration to deliver on a grid scale BESS. Ausconnex will continue engaging with residents, business owners and the wider community as the Baulkham Hills BESS project progresses through its assessment with the DPHI.

Ausconnex is committed to striking the right balance between prioritising a standalone HV BESS to support the transition to renewable energy and to responsible development by ensuring residential amenity is maintained for the lifespan of the Baulkham Hills BESS project.

Ausconnex publicly announced the Baulkham Hills BESS project on 4 December 2024 with the initial engagement entailing letter drops of a newsletter (Appendix D) within a 0.5km radius from the project site, during the preparation of this Scoping Report. Details outlined in the newsletter included the type, scale and likely impacts of the project known at this stage. No community views / submissions and or objections were raised by either members of the community, City of Parramatta Council, local Members of Parliament and or government agencies notified.

Community engagement was also made available via:

- a Project Boost community engagement mailbox set up from Monday to Friday 9am to 5pm via batteries@ausconnex.com.au
- 1800 number (1800 955 224) available for those seeking immediate assistance / to speak directly to a dedicated Community Engagement Team member;
- Calling the Ausconnex Customer Service Team on 133 229;
- Emailing batteries@ausconnex.com.au; and
- Visiting Ausconnex's website: www.ausconnex.com.au.

To provide clarity to the local community and key stakeholders, consultation will continue with expectations consistent with:

- Undertaking Engagement Guidelines for State Significant Projects Guideline (DPHI 2024);
- Social Impact Assessment Guideline for State Significant Projects (DPHI 2023);
- Cumulative Impact Assessment Guidelines (DPHI 2022) to assess cumulative impacts with other relevant future projects in the area; and
- As required by the Project SEARs.

A Community and Stakeholder Engagement Plan (Appendix E) and Social Impact Assessment Scoping Worksheet (Appendix B) have been developed in response to the DPHI community participation expectations to guide appropriate, transparent and strategic engagement with all relevant stakeholders and the local community.

Additional consultation guidance from the International Association for Public Participation (IAP2) public participation spectrum; a best-practice approach to community engagement will be sought.

Environmental considerations

Preliminary environmental assessments have been undertaken to inform this Scoping Report and to describe the proposed assessment approach to be adopted during the EIS stage. Preliminary assessments have considered the following:

- State Significant Guidelines for preparing a Scoping Report (Appendix A to the SSD Guidelines);
- existing conditions utilising aerial imagery, desktop information and site visits; and
- the proposed development including proposed construction methodology and operational requirements.

A summary of the environmental aspects of the Baulkham Hills BESS project and the level of assessments proposed are summarised in Table 1 below in order of magnitude of potential impacts.

Table 1-1: Summary of environmental aspects considered and the level of assessment proposed within EIS (as per Scoping Report Guidelines)

Environmental aspect	Background information	Level of assessment proposed for EIS as per Scoping Report Guidelines
Noise and vibration	- Noise and vibration impacts to nearby sensitive receivers including construction and 24 hour, seven days per week operations of the BESS. - Nearest sensitive receivers 50 m to the west, adjacent to a loud noise source of Old Windsor Road. The existing noise wall in place to minimise Old Windsor Road noise would provide some attenuation. - Sensitive receivers located 170 m to the north, over the other side of Toongabbie Creek valley which have direct line of sight to the indicative development footprint and limited screening.	Detailed – Noise and vibration impact assessment
Hazards and risk	- Potential risk of exposure to additional sources of EMF for nearby sensitive receivers due to BESS infrastructure. - Potential increased fire and bushfire risks to nearby receivers. BESS infrastructure does not contain built-in smoke, gas or fire detection or suppression features (based on manufacturers requirements). Although not located on mapped bushfire-prone land, the indicative development footprint includes grass and planted native and exotic midstory and canopy vegetation. - Risks associated with proximity to high-pressure gas and fuel pipelines.	Detailed – Preliminary hazard analysis, electromagnetic field assessment and bushfire impact assessment.
Historic heritage	- Northern and eastern portion of the property adjoins the 'Toongabbie Government Farm Archaeological Site' (State Heritage Register (SHR) #01903). This site has state historical significance as the earliest government farming enterprise outside the first two colonial administrative centres of Sydney and Parramatta, and in 1971 was given the name Toongabbie, used by the Indigenous peoples to identify the area (NSW Environmental and Heritage 2024). - Despite the indicative development footprint's proximity to Toongabbie Creek, there is significant ground disturbance associated with the large scale electricity transmission infrastructure works with the property boundary, which is like to have removed or disturbed potential archaeological deposits where the indicative development footprint to the HV BESS is sited. - The indicative development footprint is located outside of the curtilage of this SHR item. Although outside of the indicative development footprint, there remains the potential for the construction and operation of the Baulkham Hills BESS project to impact the integrity of the "Toongabbie Government Farm Archaeological Site".	Detailed – Statement of Heritage Impact
Visual impact	The immediate locality is characterised by a mix of industrial and residential development separated by the high-speed arterial roadway to Old Windsor Road with an existing noise wall on its south, which mostly restricts the line of sight. Visual impacts to nearby receivers during construction, operation and decommissioning including	Detailed – Visual impact assessment from key viewpoints. No landscape character assessment proposed.

Environmental aspect	Background information	Level of assessment proposed for EIS as per Scoping Report Guidelines
	construction vehicles and equipment, temporary laydown areas and installation of permanent BESS infrastructure. The Baulkham Hills BESS project would be located adjoining an existing substation with electrical infrastructure consistent with the industrial setting. During construction and operation, the Baulkham Hills BESS project would likely result in visual impacts on some residential properties along Old Windsor Road (with views over the existing noise wall) and along Goliath Avenue despite the partial screening provided by existing riparian vegetation of Toongabbie Creek.	
Traffic, transport and access	- The indicative development footprint is accessible from Old Windsor Road (classified road) via an existing sealed driveway layback. - The capacity of the existing road network to accommodate construction and operation related traffic including transport haulage requirements (including Oversized Overmass (OSOM) movements) for delivery of BESS modules from the port of origin to the site would be assessed.	Detailed – Traffic, transport and access assessment including OSOM routes
Water	- The indicative development footprint is located around 60 m south of the nearest watercourse, Toongabbie Creek (3rd Order Stream), and outside of the vegetated riparian zone (VRZ). Potential impacts to surface water quality from pollution of runoff with sediments or leaked fuels and discharge of water from site activities. - The wider property is located within the 1% AEP, however the indicative development footprint is mapped low risk for flooding by Parramatta Council Flood mapping. Low risk of flooding is noted as the area outside the 1% AEP (1:100) level up to the Probable Maximum Flood (PMF). - Groundwater has been identified at 8.5 m to 10 m below ground level (mbgl) in sandstone. The project's deepest excavation would be required up to 1.8 mbgl for the detention dam and drainage pipeline. As such, it is unlikely the project would impact on groundwater.	Detailed – Water quality and hydrology impact assessment. A qualitative flood risk assessment. No flood modelling is required as the project is outside of the 1% AEP. No groundwater impact assessment proposed.
Social and economic impacts	- The indicative development footprint is located approximately 6 km from Parramatta CBD and is highly urban in character. - A SIA Scoping Worksheet has been developed for the Baulkham Hills BESS project in accordance with the Social Impact Assessment Guideline for State Significant Projects (DPE, 2023) to identify potential social and economic impacts and define the assessment approach for the EIS phase. - The Baulkham Hills BESS project is unlikely to have a significant social impact on the surrounding community. Any perceived impacts to health and wellbeing as a consequence of amenity impacts (noise / vibration / EMF) will be further assessed as part of the EIS.	Standard – Social impact assessment incorporating economic impacts (as relevant). The Benefit-Sharing Guideline 2024 and Private Agreement Guideline 2024 do not apply to this project as the project is BESS on non-rural zoned land.

Environmental aspect	Background information	Level of assessment proposed for EIS as per Scoping Report Guidelines
	■ Social and economic benefits during operations would include clean and secure energy electricity storage for communities into the future which reduce emissions.	
Soils and contamination	■ The property is notified to the Environment Protection Authority (EPA) under the <i>Contaminated Land Management Act 1997</i> (CLM Act) and is noted as 'under assessment'. ■ Potential impacts to soils during construction and decommissioning could include soil erosion and sediment transfer, and physical change to soil quality locally. ■ Potential for encountering contaminated soils during construction is high.	Standard – Preliminary environmental investigation
Waste management	■ The Baulkham Hills BESS project would produce several waste streams: – Construction waste: The site is vacant of any current structures & grassed with trees which will be likely mulched onsite. As such, the construction waste is likely to be limited. – Operational waste: an operations and maintenance building would be on site however the Baulkham Hills BESS project does not require regular attendance by personnel and would be remotely monitored with maintenance visits only. As such operational waste is likely to be minimal general office waste. – Maintenance/Decommissioning waste would include the replacement of BESS components. Any batteries removed from the site would likely be returned to the supplier for reuse or recycling. A decommissioning specific Waste Management Plan would be prepared prior to the commencement of the BESS decommissioning.	Standard assessment in the EIS
Cumulative impacts	■ The Baulkham Hills BESS project may result in cumulative impacts in conjunction with surrounding projects during both construction and operation. ■ Impacts are generally limited to increases in traffic, ambient noise levels, hazards and risks, and residential amenity impacts	A project-level cumulative impact assessment would be undertaken in accordance with the Cumulative impact assessment guidelines for State significant projects (DPIE, 2022)
No further assessment in EIS proposed		
Land use (including agricultural land)	■ The Baulkham Hills BESS project is considered compatible and consistent with the E4 – General Industrial zoning and would not impact surrounding land uses (RE1 - Public Recreation to the north, E4 – General Industrial to the east which includes large shed-style buildings and hardstand areas, and R2 Low Density Residential and R3 Medium Density Residential to the south and west). ■ No agricultural land would be impacted by the Baulkham Hills BESS project.	No further assessment in the EIS

Environmental aspect	Background information	Level of assessment proposed for EIS as per Scoping Report Guidelines
Aboriginal heritage	■ A search of the AHIMS database on 14 November 2024 (NSW Government 2024) with a 200m buffer around the indicative development footprint returned no results for Aboriginal sites or places. ■ Based on a review of historical reports, council records, aerial photographs, and other publicly available information, the site was used for agricultural/grazing purposes from the beginning of available records until 1962. Since 1978 the property has included an electrical substation although the indicative development footprint itself does not appear to have been widely occupied by structures. Seven electrical poles connecting to the substation are currently located within the indicative development footprint. ■ The Parramatta Development Control Plan has identified the project area as having low sensitivity for Aboriginal Heritage, with limited potential to contain items of Aboriginal Heritage (City of Parramatta Council, 2023). ■ The Baulkham Hills BESS project is located on previously disturbed land, used as agricultural land until 1962 and then as a site for electrical infrastructure from 1978, the likelihood of encountering unknown Aboriginal heritage features is considered unlikely. ■ A search of the Register of Native Title Claims (NNTT 2024) on 14 November 2024 did not identify any native title claims pursuant to the NT Act within or in proximity to the indicative development footprint.	No further assessment in the EIS
Air quality	■ The indicative development footprint is within an urban area with industrial, transport, recreational and residential land uses in the local context. ■ There is a minor potential for temporary impacts to local air quality with increased dust and gaseous emissions during construction activities. An air quality assessment however is not considered necessary for the scope of the Baulkham Hills BESS project.	No further assessment in the EIS
Biodiversity	■ The indicative development footprint comprises groundcover of mown and managed native and exotic grasses and weed species and planted native and exotic midstory and canopy vegetation. Planted vegetation occurs in two areas: – on the southern boundary of the existing Baulkham Hills Substation, established circa 1979; and – on the south-eastern boundary of the property, established post-1990. ■ Field assessment confirmed that no Threatened Ecological Communities (TECs) or threatened flora species occur within the indicative development footprint. Field assessment further confirmed that vegetation and human-made structures within the indicative development footprint do not constitute suitable foraging, roosting, or nesting fauna habitat for threatened or native species.	No further assessment in the EIS – BDAR Waiver request submitted

Next steps

This Scoping Report provides an overview of the Baulkham Hills BESS project and outlines potential environmental impacts to support an application for SEARs for the Baulkham Hills BESS project. The final EIS assessment approach would be further informed by the project SEARs and the requirements of the relevant agencies and project stakeholders. The EIS will consider strategies to avoid, minimise and offset impacts in addition to identifying mitigation and management measures for the construction and operation of the Baulkham Hills BESS project in accordance with Division 4.7 of the EP&A Act.

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Scoping summary table

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Terms and Definitions

Term	Description
AC	Alternating and variable current
AEMO	Australian Energy Market Operator
AEP	Annual exceedance probability
AHIMS	Aboriginal Heritage Information Management System
AHD	Australian Height Datum
BAM	Biodiversity Assessment Method
BC Act	Biodiversity Conservation Act 2016
BCS	Biodiversity, Conservation and Science
BDAR	Biodiversity Development Assessment Report
BESS	Battery energy storage system
Biodiversity and Conservation SEPP	State Environmental Planning Policy (Biodiversity and Conservation) 2021
BoM	Bureau of Meteorology
BOS	Biodiversity Offset Scheme
CBD	Central Business District
CEMP	Construction Environmental Management Plan
CLM Act	<i>Contaminated Land Management Act 1997</i>
COP21	United Nations Climate Change Conference
CSEP	Community and Stakeholder and Engagement Plan
DA	Development Application
DCCEEW (Cth)	Commonwealth Department of Climate Change, Energy, the Environment and Water
DCCEEW (NSW)	NSW Department of Climate Change, Energy, the Environment and Water
DCP	Development Control Plan
Indicative development footprint	The area where ground disturbance and construction activities will be undertaken as a result of the project including areas which will be used temporarily during construction (e.g. for site facilities, stockpiling, laydown areas) and operational layout.
DPHI	Department of Planning, Housing and Infrastructure (formerly Department of Planning, Industry and Environment)
DSI	Detailed Site Investigation
EIS	Environmental Impact Statement
EMF	Electromagnetic Field
EPA	NSW Environment Protection Authority
EPI	Environmental Planning Instruments
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	Environmental Planning and Assessment Regulation 2021
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EPL	Environment Protection Licence
ESD	Ecologically Sustainable Development
FTE	Full Time Equivalent
FM Act	Fisheries Management Act 1994
GDE	Groundwater Dependant Ecosystems
GW	Gigawatt

Term	Description
GWh	Gigawatt hours
Ha	Hectares
HIPAP	Hazardous Industry Planning Advisory Paper
HVAC	Heating, ventilation and cooling
HV	High voltage
IAP2	International Association for Public Participation
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IPC	Independent Planning Commission
ISP	Integrated System Plan
KFH	Key Fish Habitat
Km	kilometre
Kph	Kilometre per hour
kV	Kilovolt
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LFP	Lithium Iron Phosphate
LGA	Local Government Area
M	metre
Mbgl	Metres below ground level
Mm	millimetres
MNES	Matters of National Environmental Significance
MV	Medium voltage
MW	Megawatt
MWh	Megawatt hours
NEM	National Electricity Market
NorBE	Neutral or Beneficial Effect
NP&W Act	<i>National Parks and Wildlife Act 1974</i>
NSW	New South Wales
NSW RFS	New South Wales Rural Fire Service
NVIA	Noise and vibration impact assessment
OEH	Office of Environment and Heritage
OEM	Original Equipment Manufacturers
OEMP	Operational Environmental Management Plan
OSOM	Oversize Overmass
PCT	Plant Community Types
PFAS	per- and polyfluoroalkyl substances
PHA	Preliminary hazard analysis
PLEP 2023	Parramatta Local Environmental Plan 2023
PLGA	Parramatta City Council Local Government Area
Planning Systems SEPP	State Environmental Planning Policy (Planning Systems) 2021
PMF	Probable Maximum Flood

Term	Description
PMST	Protected Matters Search Tool
POEO Act	<i>Protection of Environment Operations Act 1997</i>
PSI	Preliminary Site Investigation
REZ	Renewable Energy Zone
RL	Reduced level
RMUs	Ring Main Units
Rural Fires Act	<i>Rural Fires Act 1997</i>
SEARs	Secretary's Environmental Assessment Requirements
SEPP	State Environmental Planning Policy
SIA	Social Impact Assessment
SSD	State Significant Development
SSI	State Significant Infrastructure
SWL	Standing water level
TEC	Threatened Ecological Communities
TfNSW	Transport for NSW
The Baulkham Hills BESS project	The development, construction and operation of a grid-scale HV BESS with a capacity of up to 100 MW/200 MWh and associated infrastructure in Old Toongabbie, NSW.
The project site	The overall area of the Baulkham Hills site property boundary including the existing Baulkham Hills Transmission Substation and the indicative development footprint.
TMP	Traffic Management Plan
Transport and Infrastructure SEPP	State Environmental Planning Policy (Transport and Infrastructure) 2021
UN	United Nations
WARR Act	Waste Avoidance and Resource Recovery Act 2001
WM Act	<i>Water Management Act 2000</i>
WMP	<i>Waste Management Plan</i>

1 Introduction

1.1 Project overview

Ausconnex is committed to developing renewable energy infrastructure and plans to deliver up to 12 large grid-scale Battery Energy Storage System's (BESS) across five Local Government Area's (LGA's) of Greater Sydney on adjoining existing substation land. This undertaking has been named 'Project Boost'. Project Boost would support the current energy network by diversifying supply between local resources and renewable generation across the National Electricity Market (NEM). Collectively, this has capacity to reduce network running costs to enable long term economic and sustainability benefits to customers while generating improved renewable energy grid reliability.

Specifically, Ausconnex is proposing to develop, construct and operate a High Voltage (HV) BESS for network connection in Toongabbie within the Parramatta LGA (25km west of Sydney Central Business District (CBD)). The project, titled Baulkham Hills BESS project, is an integral part of Project Boost. The Baulkham Hills BESS project would have a capacity of up to 100 Megawatts (MW) with two hours of electricity storage (100 MW/ 200 Megawatt Hours (MWh)).

The proposal is sited on the eastern side of the Baulkham Hills BESS project within the property boundary located at 191Z Old Windsor Road, Toongabbie (Lot 1 DP 780050). The HV BESS would be serviced by two proposed 33 Kilovolt (kV) feeders from the existing street network (with the existing connection point along Reynolds Street) via the Baulkham Hills Transmission Substation to the site.

The Baulkham Hills BESS project description and proposed indicative layout is presented in Section 3.

The Baulkham Hills BESS project is considered State Significant Development (SSD) under Division 4 Section 2.6(1)(b) and Schedule 1(20) of the State Environmental Planning Policy (Planning Systems) 2021 (Planning Systems SEPP) as development for the purpose of electricity generating works (electricity storage) on land in a prescribed non-residential zone with a capital investment of greater than \$30 million.

The Baulkham Hills BESS project therefore requires assessment in accordance with Division 4.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The consent authority for the Baulkham Hills BESS project would be the Independent Planning Commission (IPC) or the Minister for Planning and Public Spaces or his delegate under Division 4.7 of the EP&A Act.

A referral to the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW (Cth)) for assessment and approval of controlled actions under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is unlikely to be required based on the findings of the preliminary assessment undertaken during preparation of this scoping report.

A Biodiversity Development Assessment Report (BDAR) Waiver has been prepared for the Baulkham Hills BESS project in accordance with Section 7.9 of the *Biodiversity Conservation Act 2016* (BC Act). The desktop review and field assessment revealed that the findings of the BDAR Waiver show that the Baulkham Hills BESS project is unlikely to significantly impact on biodiversity values that are present within the indicative development footprint. On this basis, a BDAR Waiver is requested to be granted in accordance with Section 7.9(2) of the BC Act (refer to Appendix C).

1.2 Project objectives

The objectives of the Baulkham Hills BESS project are to:

- facilitate the New South Wales (NSW) government's Electricity Infrastructure Roadmap (the Roadmap) (DPIE 2020) actions to deliver new storage and firming to better respond to NSW's electricity needs and improve reliability of the grid;
- contribute to decarbonisation of the NSW electricity grid setting, to reduce emissions and achieve net zero emissions by 2050;
- provide a renewable energy transmission and storage BESS asset to the NSW grid sized up to 100MW/200MWh, capable of storing electricity generated during periods when supply exceeds demand (low demand) that can be dispatched at times of greater need (peak periods) within Greater Sydney;
- more broadly, to contribute to the pipeline of renewable energy projects proposed across the Ausconnex BESS portfolio, with a total capacity to generate 360MW/720MWh (0.36 gigawatts) of renewable energy and play a critical role in energy security needed in NSW's renewable energy transition;
- assist in managing rooftop solar exports on the NEM network;
- maximise and repurpose a suitable, available existing electricity network asset, appropriately zoned and in close proximity to strong and established grid connection infrastructure with the aim of lowering social and environmental impacts and avoiding the need to build on private land; and
- generate commercial revenue streams for Ausconnex as an electrical contracting business geared to support major infrastructure in some of Australia's fastest growing communities.

1.3 Applicant

The Baulkham Hills BESS project applicant is Ausconnex; a wholly owned subsidiary of Endeavour Energy Group and will lease the land from Endeavour Energy who operates the electrical infrastructure as the Distribution Network Services Provider.

Ausconnex is one of the few organisations in Australia with the capability, experience and expertise to design, build and operate large-scale electrical infrastructure and network solutions in-house, from asset financing to ownership, management, maintenance and assessment repairs. Applicant details are provided in Table 1-1.

Table 1-1: Applicant details

Applicant details	
Applicant	Ausconnex
ABN	39 232 846 628
Postal address	49 Glendenning Road, Glendenning NSW 2761

1.4 Strategies to avoid, minimise or offset impacts

The SSD Guidelines to preparing a scoping report requires a section discussing the key strategies that will be adopted to avoid, minimise or offset the impacts of the Project to the extent known at the scoping stage.

The Baulkham Hills BESS project has been selected in its current form as it would have a number of benefits over alternatives considered (refer to Section 3.6) having regard to the objectives of the development.

A number of strategies to avoid, minimise or offset impacts have been identified during the Baulkham Hills BESS project's scoping phase including:

- avoiding impacts to other non-compatible land uses by locating the Baulkham Hills BESS project on land with an existing compatible land use, and close to existing transmission infrastructure;
- siting the Baulkham Hills BESS project in an urban environment, close to existing road and electrical networks, avoids the need for above ground transmission lines over longer distances which may fragment properties or natural habitat, and result in detrimental environmental consequences including amenity impacts;
- avoiding impacts to the State heritage listed Toongabbie Government Farm Archaeological Site' (SHR #01903) by ensuring the indicative development footprint is located outside the curtilage of this item;
- minimising potential impacts of operational noise on residential receivers through a detailed noise impact assessment (to be prepared during the Environmental Impact Statement (EIS)). This assessment will inform the installation of the HV BESS and associated infrastructure (including transformer configuration), and identify the need for reasonable and feasible mitigation measures; and
- providing the local community and stakeholders with adequate and sufficient information on the Baulkham Hills BESS project through consultation processes to continue to seek feedback to avoid and/or minimise impacts.

1.5 Purpose and structure of this document

This scoping report has been prepared in accordance with the NSW Government State Significant Development Guidelines – preparing a scoping report (Department of Planning, Housing and Infrastructure (DPHI) 2022) and to support a request for the Secretary's Environmental Assessment Requirements (SEARs) for the Baulkham Hills BESS project. The SEARs will identify the level of environmental assessment required to be carried out as part of the EIS. for submission to the DPHI as part of an SSD application under Division 4.7 Part 4 of the EP&A Act.

This scoping report is structured as follows:

- Chapter 1 - Introduction;
- Chapter 2 - Strategic context;
- Chapter 3 - Project;
- Chapter 4 - Statutory context;
- Chapter 5 - Engagement;
- Chapter 6 - Proposed assessment of impacts;
- Chapter 7 - Conclusion;
- Chapter 8 - References;
- Appendix A - Scoping summary table;
- Appendix B - Social Impact Assessment (SIA) scoping worksheet;
- Appendix C - BDAR waiver request;
- Appendix D - Community notification; and
- Appendix E – Baulkham Hills Community and Stakeholder Engagement Plan.

2 Strategic context

2.1 Project justification

Australia and NSW are facing a notable change across its energy sector, with focus on how electricity is sourced. The continued closure of traditional power stations in the coming decades will reduce the levels of baseload energy supply available. As these (primarily) coal-fired generation assets retire they need to be replaced with new low-emission firming alternatives.

In parallel with these closures, the market faces increasing levels of electricity generation from renewable energy. While renewable energy developments offer many benefits in terms of reduced environmental impact, and industrial contributions to emissions and climate change, these new sources are variable in their outputs and are therefore unable to provide a consistent and precise electricity supply. To balance this variable output, BESS are a new electricity generating infrastructure technology that offer this solution. BESS technology act to import energy (charge) during periods of high supply and low prices and then discharge stored energy in periods of high demand (supply shortages). These actions strengthen the capacity of the existing grid to provide a consistent level of electricity supply to all customers across the network.

As discussed, BESSs are an essential part in driving decarbonisation of the energy grid setting in NSW. Large scale (HV) batteries are a technology capable of accelerating the transition to renewables. By allowing excess renewable energy generation to be stored within the batteries for use as needed, households and businesses alike have access to clean and reliable electricity. The Baulkham Hills BESS will therefore support demand for electricity within Greater Sydney by providing energy storage to satisfy a range of electricity needs, with electricity able to be discharged back into the NEM for use at a later time or during times of peak demand.

The addition of battery developments to the NEM should help achieve the State's objective of prioritising development of renewable energy projects to deliver reliable electricity at lower prices for consumers. Other consumer benefits would include the following:

- Enhancing the energy grid setting of NSW by storing excess solar generation from rooftop solar and renewable generation, which can then be exported to customers.
- Helping to grow future capacity of rooftop solar in Australia, as BESS form an essential part of the generation solution.
- Supporting an energy supply for Metropolitan Sydney and beyond, improving electricity service reliability by reducing the risk of power disruptions and outages associated with the renewable energy transition to ensure a safe and reliable power supply to its customers, now and in the future.

At a high level, BESS technology allows the community to benefit from a resilient, sustainable and cost effective energy source, which is readily available to feed into the energy network as soon as it is needed.

Strategically, BESSs have a number of advantages including the following:

- Grid reliability and stabilisation – A BESS can absorb charge or release (discharge) electrical power almost instantly, providing valuable services in balancing power supply and demand, stabilising the power grid, and maintaining a steady frequency.
- Renewable energy integration – BESS can store excess energy generated from renewable sources like solar or wind during periods of low demand and release it during peak demand times. This ensures a continuous and reliable supply of renewable energy even when the sun is not shining, or the wind is not blowing.
- Environmental benefits – By enhancing the integration of renewable energy and reducing reliance on fossil fuel-based peaking plants, a BESS contributes to lower carbon emissions and a cleaner environment. Improved grid efficiency resulting from a BESS reduces the amount of energy waste, supporting more sustainable energy practices.

- Energy independence and security – During natural disasters or grid failures, a BESS can provide backup power, enhancing resilience and ensuring services remain operational.
- Rapid deployment – Compared to traditional power plants, an at scale BESS can be installed and commissioned relatively quickly, making them a versatile solution for emerging energy needs.
- Economic opportunities – The development, installation, and maintenance of a BESS creates jobs in the manufacturing, engineering, and construction sectors. The growing BESS market stimulates innovation and competition, leading to advancements in technology and reductions in system costs. The Baulkham Hills BESS project would also provide local opportunities for training and employment
- Sustainable energy practices – BESS technology plays an essential role in decarbonisation of the existing energy grid settings in NSW and emission reduction targets to deliver 50% less by 2030 and zero emissions by 2050.

Ausconnex has a vision to safely, effectively and sustainably deliver 12 high-quality battery storage projects to support renewable energy infrastructure and the journey toward Net Zero. The plan to introduce intelligent energy storage systems on existing substation land as part of Project Boost is a key factor in managing intermittent energy generation associated with the growing demand for energy resourcing across Greater Sydney. The proposal to install a stand-alone BESS with storage capacity of up to 100 MW and discharge capacity of 200 MWh acts to support and form the existing electricity grid. It will be able to provide electricity during times of peak demand to homes and businesses.

2.2 Strategic policy context

The strategic plans and policies relevant to the Baulkham Hills BESS project are described in Table 2-1

Table 2-1: Relevant strategic plans and policies to the Baulkham Hills BESS

Plan, policy or strategy	Description	Relevance to the Baulkham Hills BESS project
National context		
Integrated System Plan (2024)	The Integrated System Plan (ISP) is a roadmap for the transition of the NEM to meet future energy needs and enable a net zero economy by 2050 (AEMO, 2022). To support Australia's energy mix and to meet demand, the ISP suggests that a quadrupling of firming capacity is required, and a tripling of grid-scale variable renewable energy by 2030 with a six-fold increase by 2050. The ISP states that different forms of storage are needed to firm both consumer-owned and utility-scale renewables at different times of the day and year. In total, the NEM is forecast to need 36 Gigawatt (GW)/ 522 Gigawatt hours (GWh) of storage capacity in 2034-35, rising to 56 GW/ 660 GWh of storage capacity by 2049-50.	The Baulkham Hills BESS project would contribute to the ISP energy storage targets and increase the resilience of the NEM by providing a potential to support critical system security services and enabling more effective dispatch of electricity on demand. As a result, the Baulkham Hills BESS project would assist with providing consumers with clean, reliable, secure and affordable electricity.
NSW policy		
NSW Electricity Strategy 2019	The NSW Electricity Strategy is the NSW Government's plan for a reliable, affordable and sustainable electricity future (DPIE, 2019). The purpose of the strategy is to improve the efficiency and competitiveness of the NSW electricity market and encourage investment in new lower-cost generation and energy saving technology such as new infrastructure and the establishment of Renewable Energy Zones (REZs).	The Baulkham Hills BESS project would support the objectives of the strategy as it provides for new energy storage infrastructure which can assist with stabilising and managing the increased penetration of renewables in the grid, to deliver reliable and more affordable electricity for consumers.

Plan, policy or strategy	Description	Relevance to the Baulkham Hills BESS project
Net Zero Plan Stage 1: 2020 – 2030	The Net Zero Plan guides the transition to the legislated target of net zero greenhouse gases by 2050 under the <i>Climate Change (Net Zero Future) Act 2023</i> . It also outlines the NSW Government's plan to grow the economy, create jobs and reduce emissions over the next decade.	The Baulkham Hills BESS project contributes to Priority 1 of the plan, namely: "Drive uptake of proven emissions reduction technologies that grow the economy, create new jobs or reduce the cost of living." The battery system does not generate emissions.
NSW Electricity Infrastructure Roadmap 2020	The NSW Electricity Infrastructure Roadmap is the state's 20 year plan to transform the electricity system into one that is affordable, clean and reliable. The Electricity Infrastructure Roadmap notes that by mid-2030 NSW could need up to 2.3 GW of storage with 4 to 12 hours of duration to maintain system reliability and security.	The Baulkham Hills BESS project would contribute to the NSW Government's energy policy prioritising renewable energy projects in contributing to the new electricity infrastructure roadmap. The Baulkham Hills BESS project, made possible through private sector investment into energy storage and firming infrastructure, will help diminish reliance on use of existing power supply transmission networks.
NSW Renewable Energy Planning Framework	The Renewable Energy Planning Framework promotes rapid assessment processes and provides economic benefits for regional areas. The new and updated guidelines introduce assessment and management requirements for renewable energy projects to enhance certainty for both industry and local communities over route selection, community consultation expectations and visual impact.	By co-locating the HV BESS infrastructure alongside existing HV energy infrastructure that is consistent in nature and character with the proposal supports an increase in renewable energy in the electricity network while maximising land use efficiencies and minimising environmental impacts.
Regional and local context		
Greater Sydney Regional Plan	The Greater Sydney Region Plan (Greater Sydney Commission, 2018) provides a 20-year plan to manage the expected growth and change in regard to social, economic and environmental matters for Greater Sydney. The plan sets the planning framework for the five districts that make up the Greater Sydney region. The framework focuses on four main areas including infrastructure and collaboration, liveability, productivity and sustainability. The plan highlights that infrastructure will need to be both resilient and adaptable to technological transformation such as renewable energy, smart energy networks, distributed energy and water systems and energy efficient homes.	The Baulkham Hills BESS project would provide new infrastructure which facilitates the broader use of renewable energy, aligning with the objectives of the strategic planning framework for Greater Sydney.
Parramatta Community Strategic Plan 2018-2038	The Parramatta Community Strategic Plan 2018 - 2038 (City of Parramatta, 2022) provides the shared vision, aspirations and values of the Parramatta Community and its desired outcomes to inform long term planning and the strategies to achieve them. The plan identifies 6 goals, supported by outcomes and strategic actions, that provide a roadmap to achieving these goals and the community's aspirations for the City of Parramatta. The main outcome in the community strategic plan relevant to the Baulkham Hills BESS project is 'G.3 Our City is sustainable and known for its environmental leadership'. This outcome looks to transition to net zero carbon emissions solutions in	The Baulkham Hills BESS project directly aligns with the outcomes identified within the Parramatta Community Strategic Plan by increasing the use of renewable alternative energy sources, providing new electricity infrastructure which supports network resilience, acting as a clean energy source for the Parramatta community.

Plan, policy or strategy	Description	Relevance to the Baulkham Hills BESS project
	the City and community. This outcome also focuses on fostering the circular economy to provide innovative solutions to resource use and management.	
Parramatta Local Strategic Planning Statement	The City of Parramatta Local Strategic Planning Statement City Plan 2036 (City of Parramatta, 2020) outlines Parramatta's economic, social and environmental land use needs over the next 20 years, and how growth and change will be managed into the future. The local strategic planning statement includes 16 planning priorities which sit under 4 themes that reflect the shared community values to be maintained and enhanced.	The Baulkham Hills BESS project aligns the planning priority identified as 'Reduce emissions and manage energy, water, and waste effectively to create better buildings and precincts and solve city planning challenges' in Sustainability Planning Priorities of the Parramatta Local Strategic Planning Statement. The Baulkham Hills BESS project would be adapting to the future energy needs of the community by minimising the use of fossil fuels to create a cleaner energy resource while providing the NSW energy network with an ability to manage intermittent energy demand, provide greater capacity and enhance grid resilience.

2.3 Local and regional context and site suitability

The Baulkham Hills BESS project will adjoin the Baulkham Hills Substation along the eastern extent of the property at 191Z Old Windsor Road, Toongabbie (Lot 1 DP 780050) within Parramatta (approximately 25 km west of the Sydney CBD). The site currently comprises an operational buffer zone to the existing substation on site. This property is generally maintained as mown grass and planted native and non-native trees (“the indicative development footprint”).

The Baulkham Hills Substation is owned and operated by Endeavour Energy within 7 km of Parramatta CBD, in western Sydney. The project site has been used by the government for electricity generating works since 1963, with the lease for the site and substation transferred to Endeavour Energy in 2017. The existing substation incorporates two service buildings, a control building, four 132 kV feeder bays, four 132/33 kV transformers, 10 33 kV feeder bays, and two capacitors. There are three transmission towers within the property boundary, which are located in the northern portion of the property. There are also various overhead and underground transmission lines traversing the property, connecting the Baulkham Hills Transmission Substation to the existing Endeavour Energy network, which services 2.7 million people across Sydney’s greater west region, the Blue Mountains, Southern Highlands, the Illawarra and South Coast.

The indicative development footprint is within the Baulkham Hills Substation property adjoining on its eastern side and is surrounded by industrial land, road infrastructure, Toongabbie Creek and riparian vegetation, public reserve 90m downslope of the indicative development footprint. There are also areas of low and medium residential land uses located 50m southwest and 170m north of the indicative development footprint. The first floor rear elevations and windows of the closest residential properties are visible across Old Windsor Road. The indicative development footprint is elevated above the roadway and is currently serviced by an unsealed track within the southwest property boundary.

2.3.1 Zoning and land use

The Baulkham Hills BESS project is proposed on land zoned E4 – General Industrial and a minor area for site access (within an existing easement) of SP2 Infrastructure under the Parramatta LEP 2023, with surrounding land uses including RE1 - Public Recreation to the north, E4 – General Industrial to the east which includes large shed-style buildings and hardstand areas, and R2 Low Density Residential and R3 Medium Density Residential to the south and west. Co-locating the Baulkham Hills BESS project alongside the existing electricity transmission infrastructure supports the existing use and character of the area. This includes being appropriately located on site bound large scale industrial activity (eastern side), roadway (southern side) and east of the existing transmission substation infrastructure.

The site is bound by the four lane Old Windsor Road to the southwest, which is classified as a State road (zoned SP2 Infrastructure) under the *Roads Act 1993*. Motorists using this road would have limited visibility of the proposed project infrastructure due to the existing elevation of the indicative development footprint coupled with some screening provided by vegetation along the southern boundary of the property. Residential zones (both low and medium density) are located directly opposite the indicative development footprint (separated by Old Windsor Road), with first floor rear windows visible beyond a noise wall and some screening vegetation. The closest residence is approximately 60m south of the site boundary with the substation, on the opposite side of Old Windsor Road to the indicative development footprint. Other surrounding land zoning includes RE1 – Public recreation and W1 – Natural Waterways to the north which corresponds to the public reserve bordering Toongabbie Creek which runs the full length of the rear property boundary, and E4 – General Industrial zone to the east which is occupied by an industrial warehouse operation. R2 – Low Density Residential zones while not directly visible from the indicative development footprint, adjoin the public reserve along the northern side of Toongabbie Creek.

Land zones and land uses surrounding the indicative development footprint are shown on Figure 2-1.



Figure 2-1: Land zoning surrounding the Baulkham Hills BESS project

2.3.2 Existing local road network

Old Windsor Road, which borders the property on its south western length is approved for Oversize Overmass (OSOM) Load Carrying Vehicles in accordance with the NSW OSOM Load Carrying Vehicles Network Map (NHVR 2023). Old Windsor Road is a double-lane, two-way classified State road owned and operated by Transport for NSW (TfNSW), with a posted speed limit of 80 kilometres per hour (kph). Old Windsor Road forms part of the main arterial vehicular connection between Parramatta and Windsor. The transport characteristics of Old Windsor Road are further discussed in Section 6.2.

The preferred haulage routes from port to site along classified roads already approved for OSOM vehicles. A high-level assessment of the OSOM haulage route requirements will be undertaken as part of the detailed traffic assessment for the EIS to confirm typical vehicle scale and access routes and zones including OSOM vehicle and crane haulage routes of the BESS units. At this preliminary stage, there appears to be sufficient capacity within the road network and on site to accommodate construction traffic. It is noted that a traffic management plan will be prepared as part of the EIS to assess heavy vehicle movements during commissioning and decommissioning of construction equipment including construction and crane zones, number of construction workers, availability and frequency of public transport services and on-site parking demand during construction of the project.

2.3.3 Vehicular Access to the site

The indicative development footprint is accessible from Old Windsor Road via an existing sealed driveway layback (approximately 18 m wide) within the southwest boundary of the existing property, currently used to service the Baulkham Hills Transmission Substation. There is an additional 6m wide unsealed (dirt) track to the east of the sealed driveway (refer to Photo 2-1), which provides access to the outer perimeter of the indicative development footprint. The intention of the proposal is to seal the existing dirt access track to formalise provision for a permanent accessway to the HV BESS from Old Windsor Road.



Photo 2-1: Looking southeast onto driveway within site

2.3.4 Existing utilities including high pressure gas and fuel lines

There are three transmission towers located north of the existing substation hardstand area, within the existing 1.23 Hectare (Ha) property boundary to the Baulkham Hills Transmission substation site. There are also various overhead and underground transmission lines traversing the existing site, which connect the existing transmission substation to the Endeavour Energy network (previously discussed). An existing transmission line easement (30.48 m wide) is located along the substation's northern boundary of 191Z Old Windsor Road and a secondary easement is located north of the substation, between Toongabbie Creek, reserved for sewage disposal.

An existing 33 kV overhead line is located within the project site and would require relocation or undergrounding to accommodate the proposed Baulkham Hills BESS project.

An existing telecommunications tower is located along the eastern property boundary to the indicative development footprint, indicating further underground services in close proximity of the indicative development footprint of the HV BESS.

An existing water main is located under the existing driveway to Old Windsor Road approximately 20m southwest of the property boundary to the project site.

A high-pressure gas main inspection point (Jemena) is located immediately adjacent to the southeastern boundary of the existing substation site. The alignment of the inspection point suggests that the pressure gas main traverses the frontage of the property and is within proximity of the indicative development footprint.

A high-pressure fuel line (Ampol) is also located immediately adjacent to the south-eastern boundary of the existing substation site on Reynolds Street. The alignment of the route and intersection point of the fuel pipeline is close to the intersection of Reynolds Street and Old Windsor Road, within 50 m opposite of the indicative development footprint.

The construction of the Baulkham Hills BESS project may result in the relocation of some existing utilities and services within the property, such as underground services/ cables. The project would not impact upon or need to relocate the high-pressure gas or high-pressure fuel lines.

2.3.5 Description of the existing built form on site

The Baulkham Hills BESS project would be located at the eastern extent of the property, which is currently generally maintained as mown grass and planted native and non-native trees.

Built form within the existing property boundary to the Baulkham Hills Transmission Substation site includes three transmission towers, the existing Baulkham Hills Substation and associated infrastructure, telecommunications pole and control building, as well as security, fire and stormwater infrastructure (refer to Photo 2-2). The existing electricity infrastructure is located on a bed of blue metal and contained within an existing security fence.

All surface water that is captured within the fence line to the subject site is currently directed towards the north via open guttering. A drainage outfall point is located in the middle of the northern fence line of the existing substation, which directs surface water north towards Toongabbie Creek. The indicative development footprint has been cleared of remnant vegetation, and remaining vegetation is scattered throughout the site including between the existing substation and Old Windsor Road.



Photo 2-2: Looking west onto Baulkham Hills Transmission Substation

2.3.6 Sensitive receivers

Sensitive receivers in the vicinity of the HV BESS site have the potential to experience amenity impacts including noise, air quality and visual, during construction and operation activities of the project. Sensitive receivers in vicinity to the indicative development footprint include residential dwellings located to the south and west, with the closest residential dwelling located around 50 m southwest (on the opposite side of Old Windsor Road) and north beyond the public reserve of Old Toongabbie Creek (approximately 170 m from the indicative development footprint). While this residential zone is sited behind a concrete noise barrier, which screens the ground floor to the properties, there remains a direct line of sight to some habitable room windows of the first-floor level of some properties. Users of the public recreation area (Oakes Reserve) which adjoins the northern property boundary of the indicative development footprint would also be impacted. The Oakes Reserve includes the Settlers Walk (bushwalk) which follows the Toongabbie Creek line through riparian vegetation before joining Pemulwuy Walk, to the east of the site. The project is located within a highly urbanised area, characterised by a variety of land uses including industrial, recreational, residential and or, related to road infrastructure with significant traffic volumes in a high speed environment (80 km speed limit). Impacts to sensitive receivers are expected to be minimal.



Photo 2-3: Looking north onto Toongabbie Creek and towards residential area on Goliath Avenue, Winston Hills

Noise

At this preliminary stage, while it is anticipated that noise related to construction and operation activities of the project will be satisfactorily addressed through standard design and management practices, further detail on this, including construction noise management plan, mitigation measures and any attenuation of operational BESS where required will be provided as part of the noise assessment accompanying the EIS submission.

Visual Impact

A preliminary investigation identified that the potential visibility of the indicative development footprint and HV BESS will be limited, as seen from vehicle and pedestrian approaches, given the sloping topography of the site relative to Old Windsor Road. Further to this, while sensitive receivers to the north of the site are screened by the riparian vegetation of Old Toongabbie Creek, there is a direct line of sight from the first floor rear windows of some residential dwellings to the south of the indicative development footprint on Old Windsor Road, due to the topography of both the indicative development footprint and relevant residential dwellings.

Some scattered vegetation along the southern edge of the existing dirt access track was also identified during preliminary investigations, which screens residential view lines from some properties. As such, it is recommended that this existing planting be embellished to provide a suitable buffer to more effectively screen the line of sight between habitable windows of identified sensitive receivers and the proposed infrastructure. Landscaping treatments and plans in accordance with Council's tree preservation order and policy can form part of a suitable condition of development consent to the project.

Refer to Figure 2-2 for sensitive receivers identified within 500 m of the indicative development footprint.

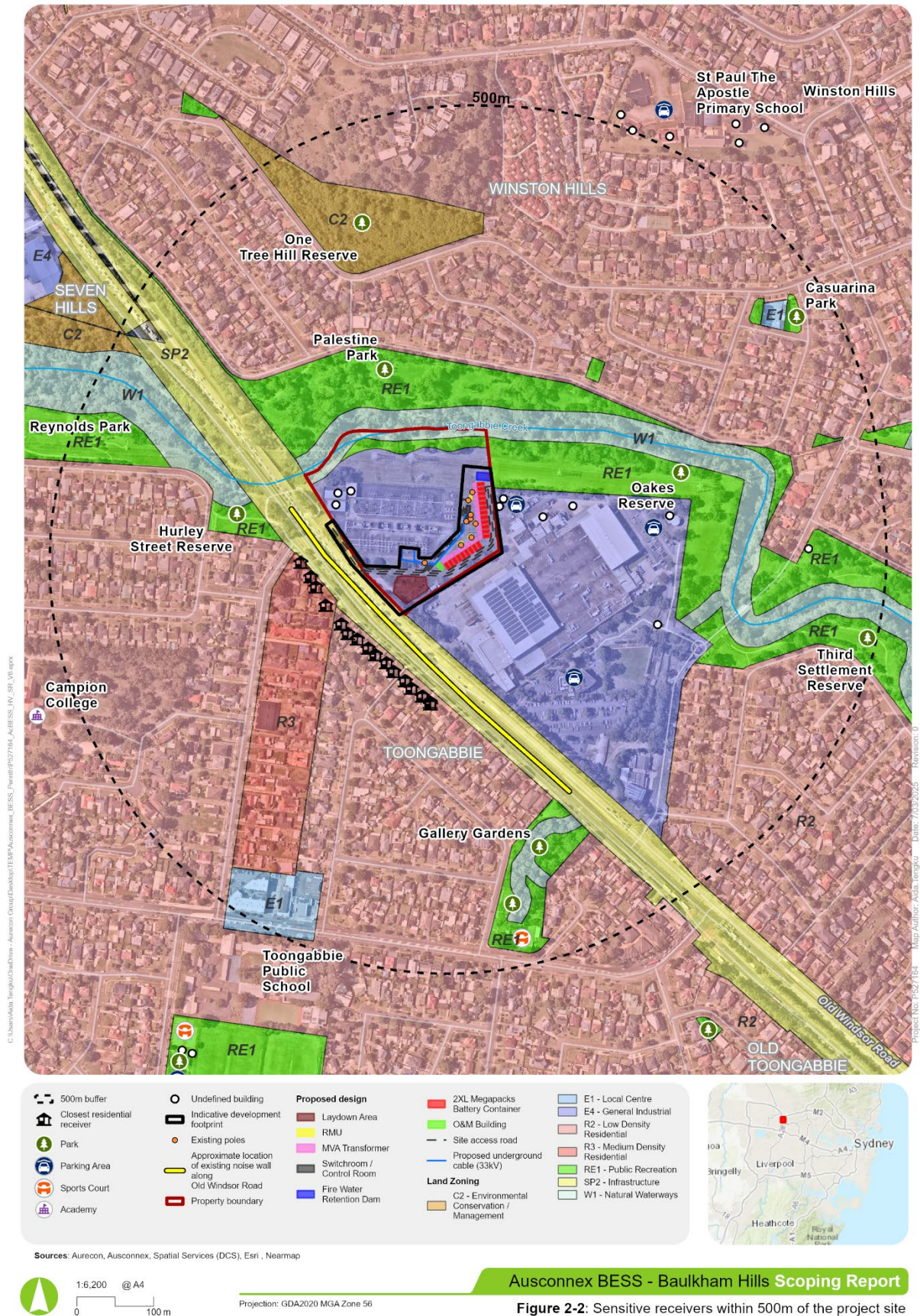


Figure 2-2: Sensitive receivers within 500m of the project site

2.3.7 Site Conditions

The indicative development footprint comprises a relatively flat landform, sloping from south to north by approximately 2 m or from Reduced Level (RL) 27 m Australian Height Datum (AHD) to RL 29 m AHD. It is anticipated changes in topography across the indicative development footprint will be compatible with manufacturers requirements for installing and optimising a BESS design zone which consists of a maximum 5% cross slope and maximum 10% grade elevation. The topography at the rear perimeter of the indicative development footprint slopes down towards Toongabbie Creek. The indicative development footprint encompasses approximately 0.4 ha of land heavily modified through previous historical disturbance, including clearing prior to 1978, and majority clearing prior to 1991. The site contains two rows of planted native and non-native midstory and canopy vegetation and groundcover of mown and managed native and non-native grasses and weed species.



Photo 2-4: Looking west onto Old Windsor Road and noise wall from site entrance



Photo 2-5: Looking west onto Old Windsor Road showing noise wall with vegetation identified for removal and nearest sensitive receiver.



Photo 2-6: Looking west onto Baulkham Hills Transmission Substation

2.3.8 Cumulative impacts

Other proposed, approved and under construction projects within the vicinity of the Baulkham Hills BESS project will be considered in the EIS, in accordance with the Cumulative Impact Assessment Guidelines for Significant Projects (DPHI, 2022). Notwithstanding, preliminary investigations include:

- a search of the DPIE Major Projects Register (NSW Government 2024) on 11 December 2024 which found the nearest proposed development to be approximately 2km to the west of the project site; and
- a search of the City of Parramatta development application (DA) tracker which did not identify proposed construction work in the vicinity of the project site (City of Parramatta 2024). The closest Development Application (DA) to the project site is approximately 1.2km to the southeast (City of Parramatta, 2024).

Refer to Figure 6-4, which depicts nearby developments within 2 km of the project site. The EIS for the Baulkham Hills BESS project will consider potential cumulative impacts associated with these projects, in particular those related to noise, transport, visual amenity and social impacts. Refer to Section 6.7.4 for more information.

2.3.9 Summary of site's suitability

The project site is considered suitable for the purposes of the Baulkham Hills BESS project for the following key reasons:

- appropriate use of an industrially zoned part of the site to install battery infrastructure, minimising effects on the surrounding environment including parts of the existing site identified as natural waterways and public recreation;
- availability of existing access to the indicative development footprint via an established road network including classified road and established separate, internal accessway;
- immediate proximity to the existing Baulkham Hills Substation and transmission lines to maximise ease of connectivity, minimising the need for easements and ensuring adequate exposure clearance distances are maintained in all directions as per manufacturers requirements;
- sufficiently sized and shaped piece of operational land mostly cleared of remnant vegetation, with level topography suitable in siting and design zone installation and operation of HV BESS infrastructure to maximise ease of connectivity and avoid and/or minimise biodiversity and amenity impacts;
- the indicative development footprint is largely cleared and is not mapped bushfire-prone land, sited 90m from riparian vegetation adjoining Toongabbie Creek and land identified as riverfront within the existing site (measures to prevent or mitigate a fire igniting will be detailed as part of the fire risk assessment included in the PHA prepared for the EIS submission);
- while the site is identified as an archaeological site (Paramatta Local Environmental Plan (PLEP) 2023) relate to the Toongabbie Government Farm built by convicts within the riverfront land to the Toongabbie Creek, at this stage it is unclear if the siting of the project area has potential to contain archaeological items (this will be assessed as part of the EIS);
- an existing noise wall along Old Windsor Road screens noise and most views of properties within the residential zone to the south-west;
- significant riparian vegetation along both sides of Toongabbie Creek provide a suitable and adequate screen for residents to the north;
- the site is predominantly non-native planted vegetation and mown grasses, planted native and non-native vegetation, historically cleared and adjoining an existing substation with associated infrastructure;
- the majority of the property is mapped as a low-risk area for flooding; and
- potential cumulative impacts within the vicinity of the Baulkham Hills BESS project are expected to be minimal.

3 Project

3.1 Project area

As mentioned in Section 1.1, the project site is situated at 191Z Old Windsor Road, Old Toongabbie, NSW. The project site is, within the Parramatta LGA, and approximately 25km west of the Sydney CBD. The indicative development footprint occupies an area of 0.4 ha within the existing 1.23 ha Baulkham Hills Transmission Substation site. The indicative development footprint includes the operational footprint, temporary construction facilities as well as the 33 kV grid connection (Refer to Figure 3-1).

The indicative development footprint is located east of the existing Baulkham Hills Substation, which is currently generally maintained as grass with two rows of native and exotic midstory and canopy vegetation. The topography is relatively level, sloping downgrade from the south (front boundary) to the north (rear boundary) by approximately 2 m. The indicative development footprint is approximately 90 m upslope from Toongabbie Creek.

The indicative development footprint is currently accessible from Old Windsor Road via a dirt road which connects to an existing driveway crossing, approximately 18m in width, on the southwest boundary of the site (refer to Figure 2-2). An unsealed access provides direct access to the indicative development footprint.

As mentioned in Section 2.3 and shown in Figure 2-2, the predominant receivers in the vicinity of the indicative development footprint range from industrial businesses (adjacent to the east and south of the indicative development footprint) and residential receivers to the north and southwest of the site, and recreational users of the public reserve (Oakes Reserve) running the length of Toongabbie Creek north of the site. The closest residential receivers are located 50 m southwest and 170m north of the indicative development footprint. There is existing screening for vehicular traffic along Old Windsor Road, however, receivers to the north, south and east adjacent to the indicative development footprint would have visibility of the Baulkham Hills BESS project.

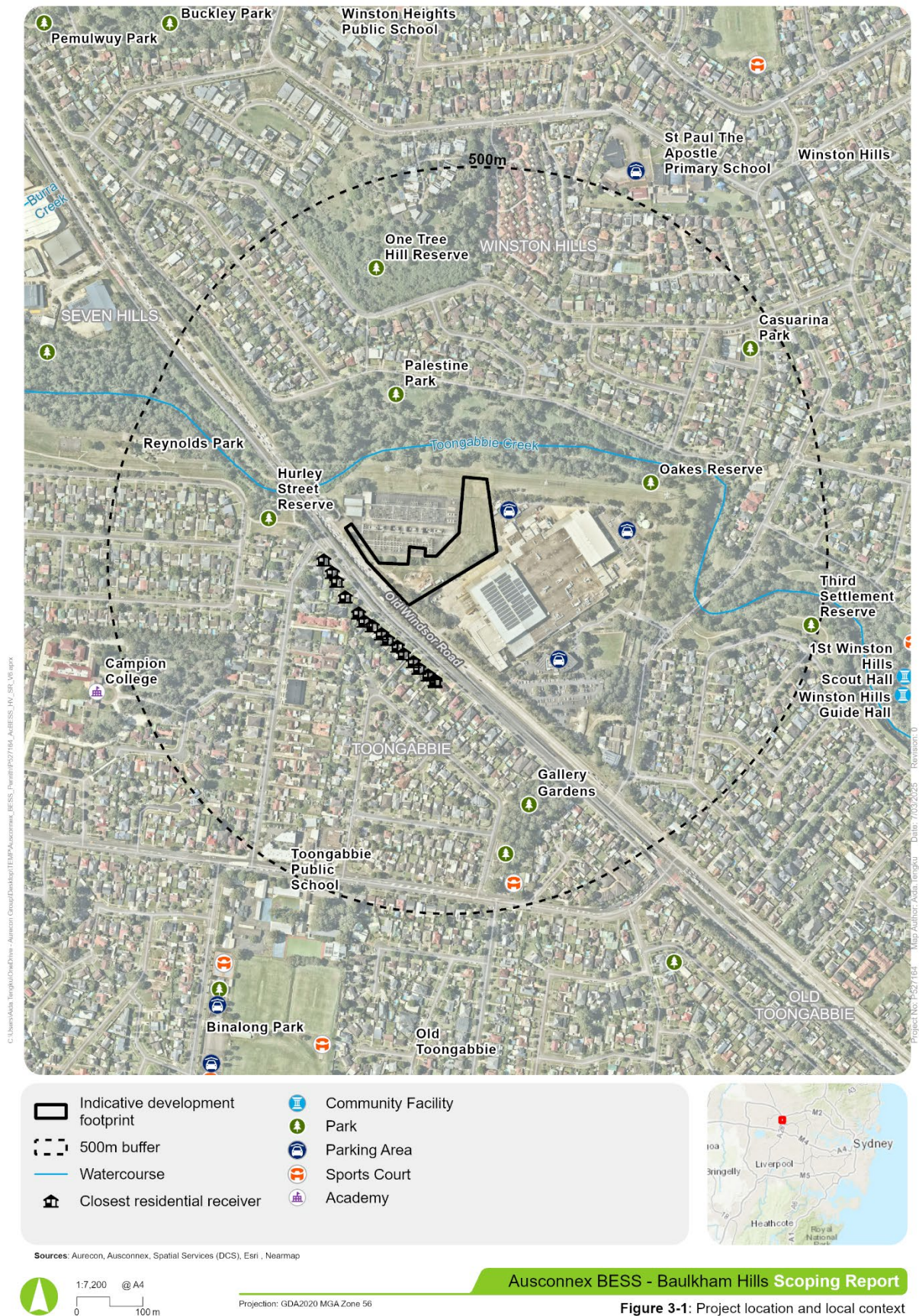


Figure 3-1: Project location and local context

3.2 Project description

The Baulkham Hills BESS project would involve the development, construction, operation and decommissioning of a grid-scale BESS with a capacity of up to 100 MW/ 200 MWh adjacent to the existing Baulkham Hills Substation. The proposed site access and the concept project design is provided in Figure 3-2.

The Baulkham Hills BESS project would include the following key components:

- electrical infrastructure including:
 - a 100 MW/ 200 MWh HV BESS comprised of 40 lithium-ion battery modules installed in Medium Voltage (MV)/ Step Up Transformers, Ring Main Units (RMUs) and harmonic filters (need and location to be confirmed during further design development);
 - 33 kV switch room and control room;
 - installation of 2 x 33 kV underground cables to connecting the HV BESS to the Baulkham Hills Transmission Substation (grid connection);
 - two new feeder bays at the 33 kV busbar within the Baulkham Hills substation
 - ancillary infrastructure (integrated AC power inverter for each battery module); and
 - existing 33 kV overhead transmission line belonging to the feeder 472 to be replaced with an underground cable traversing the eastern boundary of the Baulkham Hills Transmission Substation.
- other permanent ancillary infrastructure including:
 - minor excavation and earth grading and levelling works to enable installation of concrete pads for the HV BESS modules and associated infrastructure;
 - operation and maintenance building;
 - worker car parking;
 - perimeter security fencing, lighting, signage and lightning protection;
 - on-site security systems, including security card reader at the main substation entrance, pole mounted security cameras and a security cabinet (located within the existing service building);
 - fire detection and suppression equipment, including as extension to the existing fire hydrant to support the proposed Baulkham Hills BESS;
 - sealed existing gravel access road (10 m wide x 150m long) from the southbound land of Old Windsor Road (south of site) to the HV BESS site;
 - formalised underground stormwater network, and provision for water detention (with valve installed between dam and existing drainage to control flow, retain firewater, for stormwater/firewater quality treatment) prior to discharge;
 - switchyard light box (mounted to the existing service building);
 - vegetation/ tree replacement (as required); and
 - potential noise barrier (pending detailed noise impact assessment).
- temporary construction facilities including:
 - site office;
 - construction compound and laydown areas; and
 - stormwater and sediment controls for the Baulkham Hills BESS indicative development footprint.

Typically, BESS modules are in the order of 2.8m in height, with a total associated footprint of 50 m² in area per module. The BESS modules typically contain internal Heating, Ventilation And Cooling (HVAC) controls. Harmonic filters can be up to 6 m tall while the step-up transformer tank would be up to approximately 2.5 m high. Figure 3-2 identifies the concept design for the Baulkham Hills BESS project. The final Baulkham Hills BESS project configuration would be confirmed during further design refinement as the project progresses. The ultimate design would be informed by the appointed service provider selected by Ausconnex.

The estimated development cost of the Baulkham Hills BESS project is between \$130 million and \$150 million.

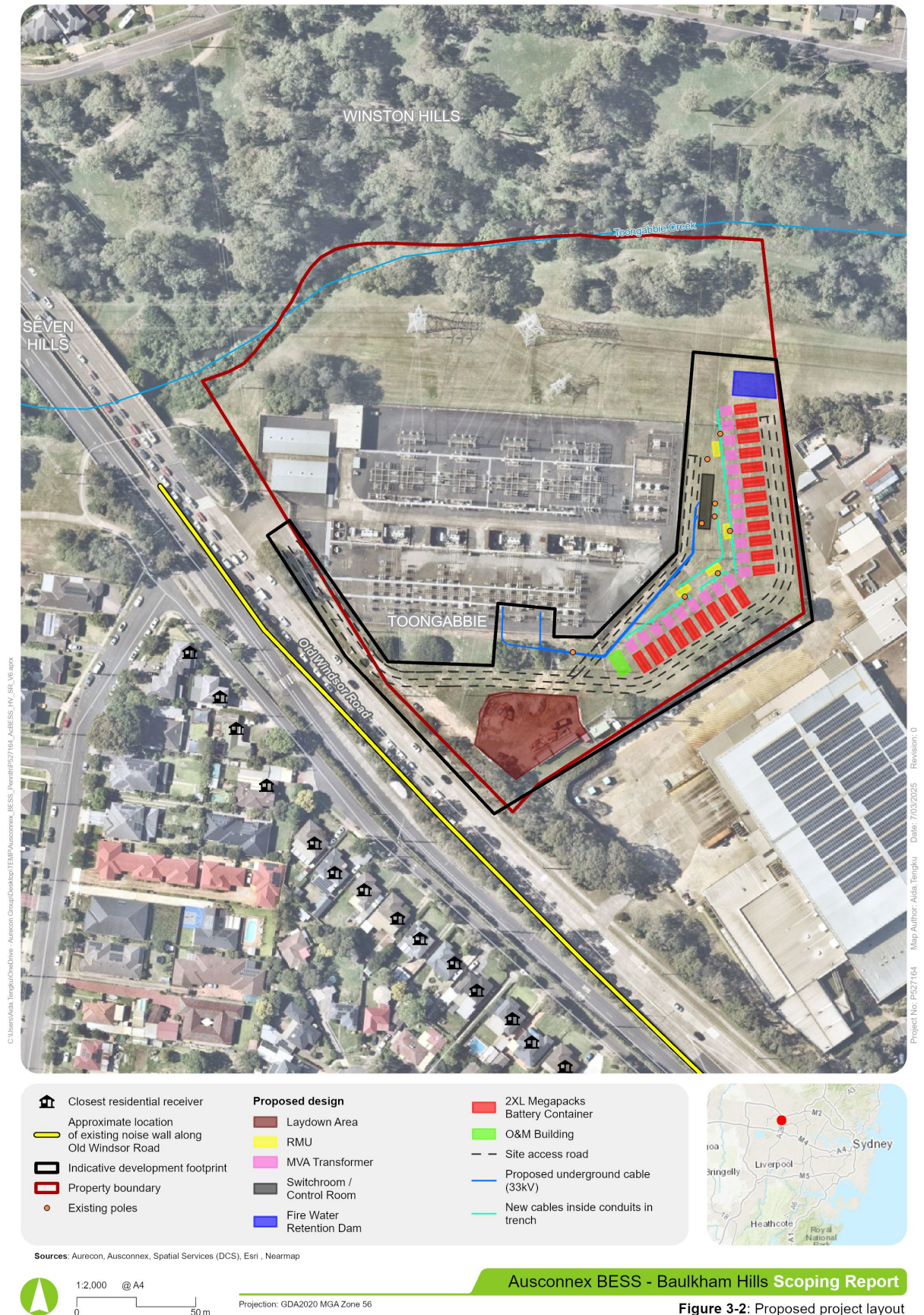


Figure 3-2: Proposed project layout

Figure 3-2: Proposed project layout

3.3 Construction

3.3.1 Construction program

The Baulkham Hills BESS project is anticipated to take approximately 21 months to construct. However, the final construction program may vary following planning approval subject to the availability of supply of BESS equipment components. The anticipated construction and commissioning stage would begin from the first quarter of 2026, subject to approval and completion of post-approval compliance obligations. The commissioning period is expected to take two to three months. Construction of the Baulkham Hills BESS project would be subject to development approval, while final commencement would be subject to various factors including prevailing market conditions. Refer to Table 3-1 for the indicative construction program.

Table 3-1: Indicative construction timeframe

Project stage	Q1 2026	Q2 2026	Q3 2026	Q4 2026	Q1 2027	Q2 2027	Q3 2027
Construction							
Commissioning							

Typical construction activities would involve the following activities:

- installation and maintenance of environmental controls;
- establishment of temporary construction facilities including upgrading and/or construction of the access and internal access roads, laydown area(s), fencing, and construction facilities including site office and amenities;
- site enabling works including relocation and removal of existing services;
- site preparation including clearing of vegetation such as tree removal, ground clearing, shallow excavation and other ground disturbance activities including concrete slab construction and gravel laying to support battery modules, control room, switch houses and a substation;
- infrastructure construction including new drainage, drainage upgrades, laying of cabling and collector units, construction of accesses, perimeter and internal roads, security fencing, lighting and other ancillary infrastructure;
- equipment installation including battery units and ancillary infrastructure;
- testing and commissioning activities; and
- removal of temporary facilities and demobilisation.

3.3.2 Construction workforce

It is expected that approximately 35 to 40 full time equivalent (FTE) jobs would be created during the peak construction period. The construction workforce would be sourced from the local area as far as practicable.

Construction hours

Construction activities would primarily be undertaken during standard day time construction hours as follows:

- Monday to Friday – 7 am to 6 pm;
- Saturdays - 8 am to 1 pm; and
- Sundays or public holidays - no work.

Where activities are required outside of the above standard construction hours these would be agreed in advance with the relevant authorities, which may include the Environment Protection Authority (EPA), Traffic Management Centre and City of Parramatta Council. Such activities would largely be undertaken to avoid impacts on the surrounding road network and sensitive receivers or for safety reasons.

3.4 Operation and maintenance

The Baulkham Hills BESS project is anticipated to be operational from about Q1 2028.

The duration of operation for the Baulkham Hills BESS project would be approximately 20 years, after which the HV BESS would be decommissioned. The Baulkham Hills BESS project is proposed to be remotely operated and monitored 24 hours a day seven days a week, with occasional operation and maintenance staff required to work during standard day time hours and potentially out of hours for any emergency response and maintenance work.

Annually scheduled preventative maintenance is required throughout the Baulkham Hills BESS Project's operational life. These maintenance activities will include:

- inspection of equipment (including exposure clearances, enclosures and equipment integrity);
- component replacement;
- safety and environmental audits; and
- testing of equipment.

Service delivery vehicles (measuring up to 8 m in length) and/or utility vehicles are typically used to undertake such maintenance. Heavy vehicles are likely only required to replace larger components. It is anticipated that such works would be undertaken in accordance with an Operational Environmental Management Plan (OEMP) to be submitted with the EIS.

3.5 Decommissioning

In the event of decommissioning battery systems that are no longer functional, is anticipated that the indicative development footprint would be returned to its original state. Components would be re-purposed or recycled using appropriate methods to safely handle the equipment and transport it to a recycling facility in accordance with regulations regarding disposal of battery packs. The standard construction hours for the construction of the Baulkham Hills BESS project would apply to decommissioning.

3.6 Alternatives considered

The alternatives considered are as follows:

- **Option 1:** Do nothing.
 - This option negates constructing and operating the Baulkham Hills BESS project. The “do nothing” option negates the opportunity to deliver the Baulkham Hills BESS project, which would support national targets for emissions reduction, NEM diversification, the 2024 ISP, and more secure, affordable energy.

- This option forgoes the chance to align with NSW state targets for renewable energy, reduced emissions, and a more affordable, diverse, and secure NEM.
 - This option forgoes supporting regional and local objectives, including increasing renewable energy and advancing the themes of the Parramatta Community Strategic Plan and Local Strategic Planning Statement.
 - At a local level this option removes the potential for local job opportunities and training which development of the Baulkham Hills BESS project can bring.
- **Option 2:** Proposed layout for the Baulkham Hills BESS project (*preferred option*).
- The preferred option offers an opportunity to construct and operate a 100 MW/ 200 MWh BESS at the nominated location as indicated in Section 3.2. The proposed layout makes optimal use of the available space within the property and was informed by the findings of a preliminary desktop noise screening exercise to reduce potential impacts on nearby residential receivers.
 - This option would support national targets in relation to emissions reduction through continued diversification of the NEM, alignment with the 2024 ISP and the provision of services which contribute to more secure and affordable energy provision across the NEM.
 - This option would support NSW state targets and strategies for renewable energy development, reduced emissions and a more affordable, secure and diverse NEM.
 - This option supports the function of industrial land used for electricity generation and utilises its suitability to host renewable energy projects by an ability to avoid significant impacts over its lifecycle
 - This option supports as the themes related to increasing the use of renewable energy sources, sustainability and reducing greenhouse gas emissions identified in the Parramatta Community Strategic Plan and Parramatta Local Strategic Planning Statement. Further details are provided in Table 2-1.
 - This option increases opportunities for local construction jobs (up to 40), including a diverse range of opportunities during the commissioning and decommissioning of the HV BESS. .

Of the alternatives, the Baulkham Hills BESS project (Option 2) will play an important role in emission reduction targets while providing investment certainty for industry and the host community.

Further, the indicative development footprint was also selected due to its established access to existing road and electrical infrastructure and minimal land use conflict or impacts.

Ongoing refinement of the Baulkham Hills V BESS project design as part of the EIS preparation would be informed by further technical assessments, as outlined in Section 6.

4 Statutory context

The relevant statutory context for the Baulkham Hills BESS project is provided in the sections below. Detailed consideration of relevant statutory requirements will be provided in the EIS.

The existing Baulkham Hills Transmission Substation was constructed on the property in 1965, with ground disturbance visible to the east of the new substation and an unpaved track along the transmission line in the northern portion of the property. Expansion of the substation to the east was completed by 1970, along with the construction of transmission poles at the northern and western boundaries of the property. An additional zone substation was built in 2004 (DA-126/2004) within the boundary of the existing Baulkham Hills Transmission Substation.

The indicative development footprint is located within land that is zoned E4 General Industrial and a minor area for site access (within an existing easement) of SP2 Infrastructure. The proposal is permissible with consent under Section 2.36(1) (b) of SEPP (Transport & Infrastructure) 2021 which states that development for the purpose of electricity generating works (battery energy storage) can be carried out with consent on land in a prescribed non-residential zone.

Further, given that the proposal, with an estimated development cost of more than \$30 million, means that the approval pathway for the project is as per Part 4.36(2) of the EP&A Act which designates the project a declared State Significant Development. The consent authority for the SSD is the Minister for Planning and Public Spaces or his delegate.

4.1 Power to grant consent

The EP&A Act defines the statutory framework for planning approval and environmental assessment in NSW. The EP&A Act is administered by the Minister for Planning and Public Spaces, statutory authorities, and local councils.

Section 4.36(2) of the EP&A Act states that a SEPP may declare any development, or any class or description of development, to be SSD.

Under section 2.6(1) of the Planning Systems SEPP, a development is classified as SSD if:

- a. the development on the land concerned is, by the operation of an environmental planning instrument, not permissible without development consent under Part 4 of the [EP&A] Act, and*
- b. the development is specified in Schedule 1 or 2 [of the Planning Systems SEPP].*

Schedule 1(20) of the Planning Systems SEPP defines the following as SSD:

- Development for the purpose of electricity generating works or heat or their co-generation (using any energy source, including gas, coal, biofuel, distillate, waste, hydro, wave, solar or wind power) that-*
- (a) has an estimated development cost of more than \$30 million, or*
 - (b) has an estimated development cost of more than \$10 million and is located in an environmentally sensitive area of State significance.*

The Baulkham Hills BESS project is development for the purpose of 'electricity generating works' (which includes electricity storage) and will have an estimated development cost of more than \$30 million.

In accordance with section 4.12(8) of the EP&A Act, the development application is therefore required to be accompanied by an EIS that meets the requirements of Part 8, Division 5 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2021 and any other relevant legislative requirements that relate to the EIS.

As an SSD, the consent authority for the Baulkham Hills BESS project would be the IPC or the Minister for Planning and Public Spaces under Division 4.7 of the EP&A Act.

4.2 Permissibility

Transport and Infrastructure SEPP 2021

Division 4 section 2.35 of the Transport and Infrastructure SEPP defines 'electricity generating works' as:

A building or place used for the following purposes, but does not include a solar energy system -

- (a) making or generating electricity,*
- (b) **electricity storage.***

Division 4 section 2.36 of the Transport and Infrastructure SEPP states that the following development is permitted with consent:

- 1) Development for the purpose of electricity generating works may be carried out by any person with consent on the following land -*
 - a) in the case of electricity generating works comprising a building or place used for the purpose of making or generating electricity using waves, tides or aquatic thermal as the relevant fuel source - on any land,*
 - b) in any other case - any land in a prescribed non-residential zone.*

The Baulkham Hills BESS project is located on land zoned as E4 General Industrial and a minor area for site access (within an existing easement) of SP2 Infrastructure, which are a prescribed non-residential zones under the definitions of section 2.36(1) of the Transport and Infrastructure SEPP. The land zoned E4 General Industrial permits development for electricity generating works (Battery Storage) with consent.

The development of the Baulkham Hills BESS project is therefore permissible with consent as a result of the provisions of the Transport and Infrastructure SEPP 2021.

4.3 Other Approvals

Table 4-1 outlines the consideration for other approvals which may have relevance to the project, including approvals that are not required under Section 4.41 of the EP&A Act, or authorisations that cannot be refused under Section 4.42 of the EP&A Act for SSD.

Table 4-1: Other Approvals

Other Approvals	Requirement and consideration for the Baulkham Hills project
Commonwealth Approvals	
<i>Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)</i>	A project must be referred to the DCCEEW under the EPBC Act if it has, or is likely to have, a significant impact on one or more Matters of National Environmental Significance (MNES). The nine MNES protected under the EPBC Act are: ■ world heritage properties; ■ national heritage places; ■ wetlands of international importance (listed under the Ramsar Convention); ■ listed threatened species and ecological communities; ■ migratory species protected under international agreements; ■ Commonwealth marine areas; ■ the Great Barrier Reef Marine Park; ■ nuclear actions (including uranium mines); and ■ a water resource, in relation to coal seam gas development and large coal mining development.

Other Approvals	Requirement and consideration for the Baulkham Hills project
	A search of the Commonwealth Protected Matters Search Tool (PMST) on 13 November 2024 identified the following MNES within a 1 km buffer of the Baulkham Hills BESS project: 12 migratory species; 8 threatened ecological communities; and 57 threatened species. If a significant impact on MNES is likely, a referral to the Commonwealth Minister for Environment may be required to determine if the Baulkham Hills BESS project is a controlled action or if the Baulkham Hills BESS project may be constructed in a particular manner that would mitigate potential impacts.
<i>Native Title Act 1993</i>	The <i>Native Title Act 1993</i> recognises and protects native title in Australia. A search of the registers maintained by the National Native Title Tribunal on 14 November 2024 indicated that there is no active native title claims associated with the project site.
Approvals not required under Section 4.41 of the EP&A Act	
Approvals not required	Section 4.41 of the EP&A Act outlines approvals that do not apply in the case of the Baulkham Hills BESS project and where authorisations are not required for SSD that has been approved, as follows: - A permit under section 201, 205 or 219 of the Fisheries Management Act 1994 (FM Act). - An approval under Part 4, or an excavation permit under section 139, of the Heritage Act 1977. - An Aboriginal Heritage Impact Permit under section 90 of the NP&W Act. - A bush fire safety authority under section 100B of the Rural Fires Act. - A water use approval under section 89, a water management work approval under section 90 or an activity approval (other than an aquifer interference approval) under section 91 of the WM Act.
Consistent approvals under Section 4.42 of the EP&A Act	
Section 4.42 of the EP&A Act outlines where authorisations cannot be refused if it is necessary for carrying out SSD and must be applied consistently, as follows:	
An environment protection license (EPL) under Chapter 3 of the POEO Act (for any of the purposes referred to in Section 43 of that Act).	The Baulkham Hills BESS project does not constitute a scheduled activity under Schedule 1. An EPL is not required.
An aquaculture permit under section 144 of the FM Act.	The Baulkham Hills BESS project will not involve aquaculture development. Therefore no aquaculture permit is required in this instance. The Baulkham Hills BESS project would not involve dredging, or reclamation works or works in any watercourse. It is noted that part of the land is identified as W1 Natural Waterways within the site (PLEP, 2023), however that this portion of land is 90m down slope from the indicative development footprint. The Baulkham Hills BESS project would not impact on marine vegetation or cause blockage in fish passage. No permits under the relevant FM Act sections are required.

Other Approvals	Requirement and consideration for the Baulkham Hills project
An approval under Section 15 of the <i>Mine Subsidence Compensation Act 1961</i> (repealed by <i>Coal Mine Subsidence Compensation Act 2017</i>).	The Baulkham Hills BESS project is not located within a mine subsidence district. An approval under Section 15 is not required to be made.
A mining lease under the <i>Mining Act 1992</i> .	The Baulkham Hills BESS project would involve surface infrastructure with a limited footprint, and potential impacts on existing or future mining activities are not anticipated. A mining lease is not required.
A production lease under the <i>Petroleum (Onshore) Act 1991</i> .	The Baulkham Hills BESS project would not involve petroleum production. A production lease is therefore not required.
A consent under Section 138 of the <i>Roads Act 1993</i> .	Any relevant road works approvals will be sought prior to construction commencing.
A licence under the <i>Pipelines Act 1967</i> .	No pipelines licence would be required for the Baulkham Hills BESS project. It is noted that the indicative development footprint is mapped within and requiring notification as per the Australian Pipe Database - Natural Gas and Oil Notification Zone (PLEP 2023).
NSW environmental legislation	
<i>Biodiversity Conservation Act 2016</i>	The BC Act seeks to conserve biological diversity, promote ecologically sustainable development (ESD), prevent extinction and promote the recovery of threatened species, populations and ecological communities and to protect areas of outstanding biodiversity value. State significant developments require an assessment of potential biodiversity impacts to be carried out as part of the EIS, in accordance with the BC Act, the Biodiversity Assessment Method (BAM), and the requirements of the Biodiversity Offset Scheme (BOS). This would take the form of a BDAR. If, however, an applicant believes that their State significant project is unlikely to have a significant impact on biodiversity values, they can apply for a BDAR waiver (NSW Government, 2025). A BDAR waiver will only be issued in limited circumstance where it is clearly demonstrated that the proposed development is not likely to have any significant impact on biodiversity values (NSW Government, 2019). A BDAR waiver request has been sought given that the project is unlikely to have a significant impact on biodiversity values. (refer to Appendix C).
<i>Heritage Act 1977</i> (Heritage Act)	The <i>Heritage Act 1977</i> is concerned with all aspects of conservation ranging from the most basic protection against indiscriminate damage and demolition of buildings and sites, through to restoration and enhancement. Matters protected under the Act include items listed on the State Heritage Register, the heritage schedules of local council LEPs, and/or the conservation registers (or Section 170 Registers) of NSW State government agencies, as well as items subject to an Interim Heritage Order. A search of the State Heritage Register (NSW Environmental and Heritage 2024) and Commonwealth Heritage Register (DCCEEW 2024) on 9 November 2024 revealed that the northern portion of the property is mapped as the “Toongabbie Government Farm Archaeological Site”, which has State significance. The indicative development footprint for the Baulkham Hills BESS project is located outside of the State heritage curtilage. Refer to Section 6.3.

Other Approvals	Requirement and consideration for the Baulkham Hills project
	At this preliminary stage, the Baulkham Hills BESS project is unlikely to negatively impact any Aboriginal heritage items based on the low sensitivity for Aboriginal sites to be present on the indicative development footprint. It is not expected that the project would have any significant negative impact on heritage considerations, an assessment of potential heritage impacts would be carried out as part of the EIS in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (Office of Environment and Heritage (OEH) 2011) and the Code of Practice of the Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010). Consultation will also occur in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010).
<i>National Parks and Wildlife Act 1974 (NP&W Act)</i>	The <i>National Parks and Wildlife Act 1974</i> (NP&W Act) provides for the management and conservation of land declared as national parks and conservation areas, as well as regulating the management of Aboriginal cultural heritage objects. A search of the Aboriginal Heritage Information Management System (AHIMS) database on 14 November 2024 (NSW Government 2024) with a 200 m buffer around the indicative development footprint identified no Aboriginal sites or places within the search area. Refer to Section 6.8.2.
<i>Protection of Environment Operations Act 1997 (POEO Act)</i>	The <i>Protection of the Environment Operations Act 1997</i> (POEO Act) aims to protect, restore and enhance the environment in NSW and to promote public access to information and involvement in environment protection. Under Section 48 of the POEO Act, an Environment Protection Licence (EPL) is required from the NSW EPA for activities listed in Schedule 1. The Baulkham Hills BESS project does not constitute a scheduled activity under Schedule 1 and would not require an EPL.
<i>Roads Act 1993</i>	The <i>Roads Act 1993</i>, amongst other things, establishes the procedures for the opening and closing of a public road and regulates the carrying out of activities on public roads. Relevant approvals will be sought prior to any work prior to construction commencing that could impact on public roads.
<i>Water Management Act 2000 (WM Act)</i>	The <i>Water Management Act 2000</i> (WM Act) aims to provide for the sustainable and integrated management of the water sources of the State for the benefit of both present and future generations. The WM Act is based on the principles of ESD, aiming to ensure the fundamental health of rivers, groundwater systems and associated wetlands, floodplains, estuaries are protected. It is noted there are no waterways or aquatic habitats within the site, and the nearest waterway is the Toongabbie Creek, which is located approximately 90 m from the indicative development footprint. The need for an aquifer interference approval will be determined in the EIS, following geotechnical investigations to confirm the groundwater conditions at the indicative development footprint. The need for an aquifer interference approval will be determined in the EIS, following geotechnical investigations to confirm the groundwater conditions at the indicative development footprint.
<i>Contaminated Land Management Act 1997 (CLM Act)</i>	This Act outlines the circumstances in which notification of the NSW EPA is required in relation to the contamination of land. This may become relevant during construction and/or operation of the Baulkham Hills BESS project and would be discussed in greater detail in the EIS. The property is notified to the EPA under the CLM Act and is noted as 'under assessment'. As there is known contamination risk within the indicative development footprint, a Preliminary Site Investigation (PSI) assessment will be undertaken. A subsequent Detailed Site Investigation (DSI) may be required contingent on the outcomes of the DSI. These assessments will inform the extent and nature of existing

Other Approvals	Requirement and consideration for the Baulkham Hills project
	contamination, evaluate potential risks to human health and the environment, and identify any necessary mitigation measures to prevent contamination impacts during the Baulkham Hills BESS project.
<i>Biosecurity Act 2015</i>	The <i>Biosecurity Act 2015</i> manages biosecurity risks in Australia. The Act aims to protect natural resources from the adverse impact of pests, disease, weeds and contaminants on agricultural land and parks and reserves. During construction of the Baulkham Hills BESS project, any person who deals with any plant, who knows (or ought to know) of any biosecurity risk, has a duty to ensure the risk is prevented, eliminated or minimised, so far as is reasonably practicable. The BDAR waiver request (refer to Appendix C) and/or the EIS would consider biosecurity risks and impacts related to the presence of weeds within the indicative development footprint.
<i>Rural Fires Act 1997</i>	The <i>Rural Fires Act 1997</i> (Rural Fires Act) regulates the suppression and management of bushfires. The Act details duties and requirements regarding the NSW Rural Fire Service (NSW RFS), Neighbourhood Safer Places, Fire Trails, and Bush Fire Prevention. Section 63 of the Act details duties of public authorities and owners and occupiers of land to prevent bushfires. Under Section 63, it is the duty of a public authority to take the notified steps (if any) and any other practicable steps to prevent the occurrence of bushfires on, and to reduce the danger of the spread of a bushfire on or from any land vested in or under its control or management, or any highway, road, street, land or thoroughfare, the maintenance of which is charged on the authority. An assessment of the bush fire risk to the Baulkham Hills BESS project will be carried out as part of the EIS. This will be in the form of a Bushfire Risk Assessment prepared in accordance with the requirements of Planning for Bush Fire Protection 2019. Refer to Section 6.2.
<i>Waste Avoidance and Resource Recovery Act 2001</i>	The <i>Waste Avoidance and Resource Recovery Act 2001</i> (WARR Act) was established to promote waste avoidance and resource recovery. The Act encourages the most efficient use of resources in order to reduce environmental harm. A waste management and resource use assessment will be carried out as part of a Waste Management Plan (WMP). The WMP will cover excavation construction waste materials and any storage on site. This will manage waste generated by decommissioning of battery systems, including components to be recycled.
<i>Native Title (New South Wales) Act 1994</i>	This Act provides for Native Title in relation to land or waters. People who hold native title have a right to consult or continue to practise their law and customs over traditional lands and waters while respecting other Australian laws. A search of the registers on 14 November 2024 indicated that there are no active native title claims within or in proximity to the indicative development footprint.
<i>Crown Land Management Act 2016</i>	Under the <i>Crown Land Management Act 2016</i>, consent from NSW Crown lands is required for works over Crown land. There is no Crown land located within the indicative development footprint.
Environmental planning instruments	
SEPP (Resilience and Hazards) 2021	Part 3, section 3.11 of the <i>State Environmental Planning Policy (Resilience and Hazards) 2021</i> (Resilience and Hazards SEPP) outlines that a preliminary hazard analysis (PHA) is required for development that is potentially hazardous industry. The <i>Hazardous and Offensive Development Application Guidelines: Applying SEPP 33</i> (Department of Planning, 2011a) (SEPP 33 Guideline), provides guidance to determining whether the Resilience and Hazardous SEPP applies to specific development.

Other Approvals	Requirement and consideration for the Baulkham Hills project
	The preliminary assessment has determined that the Resilience and Hazardous SEPP does apply to the Baulkham Hills BESS project given the following: ■ The Baulkham Hills BESS project requires development consent under Part 4 of the EP&A Act. ■ The Baulkham Hills BESS project is a 'potentially hazardous industry', as Question 2.2 of the SEPP 33 Guideline states that: <i>"A 'hazardous industry' under SEPP 33 is one which, when all locational, technical, operational and organisational safeguards are employed continues to pose a significant risk. A proposal cannot be considered a hazardous industry unless it is first identified as potentially hazardous industry and subjected to the assessment requirements of SEPP 33."</i> Appendix 3 of the SEPP 33 Guideline provides a list of industries that may be potentially hazardous, however states the provided list is "illustrative and is not exhaustive" and that "hazard arises from factors other than the presence of dangerous goods". LFP is the preferred Li-ion battery chemistry; however the final battery configuration is yet to be determined. For lithium-ion batteries (Dangerous Goods Class 9) there is no threshold quantity given, however given the potential for off-site impacts, the Baulkham Hills BESS project is a 'potentially hazardous industry' for the purposes of the relevant guidelines. As such a PHA would likely be required. Chapter 4 of the Resilience and Hazards SEPP also describes its aim to promote remediation of contaminated land. It notes that consent may not be granted unless contamination has been considered, and if present that it is either satisfied the land is suitable in its contaminated state or will be appropriately remediated. The requirements of Chapter 4 (Resilience and Hazards SEPP) will be considered by the EIS in addition to the findings of a PSI and DSI (pursuant to the contaminated land planning guidelines), as described further in Section 6. As there is known contamination risk within the property, a PSI will be undertaken. A DSI may be subsequently required depending on the outcomes of the DSI. These assessments will detail the extent and nature of existing contamination, evaluate potential risks to human health and the environment, and identify any necessary mitigation measures to prevent contamination impacts during the Baulkham Hills BESS project.
SEPP (Biodiversity and Conservation) 2021	Chapter 2 - Vegetation in non-rural areas The <i>State Environmental Planning Policy (Biodiversity and Conservation) 2021</i> (Biodiversity and Conservation SEPP) includes Chapter 2 which relates to vegetation in non-rural areas. The aims of Chapter 2 are the protection of the biodiversity values of trees and other vegetation in non-rural areas of the State and the preservation of the amenity of non-rural areas of the State through preserving trees and other vegetation. The clearing of vegetation is anticipated to be necessary for the construction of the Baulkham Hills BESS project, which is located on land zoned as E4 - General Industrial. The Biodiversity and Conservation SEPP applies to land zoned E4 - General Industrial in the Parramatta LGA (section 2.3 refers). Section 2.6(1) of this SEPP states that 'a person must not clear vegetation in any non-rural area of the State to which Part 2.3 applies without the authority conferred by a permit granted by the council'. Section 2.9 under Part 2.3 applies to vegetation in any non-rural area of the State that is declared by a development control plan (DCP) to be vegetation to which this Part applies. Whereby, a development control plan may make the declaration in any manner, including by reference to any of the following: a. the species of vegetation, b. the size of vegetation

Other Approvals	Requirement and consideration for the Baulkham Hills project
	<i>c. the location of vegetation</i> <i>d. the presence of vegetation in an ecological community or in the habitat of a threatened species.</i> Part 2.2 of the Planning Systems SEPP states that DCPs do not apply to SSDs. As this project is considered SSD, the Parramatta DCP would not apply. As such, this EIS does not require an assessment against Section 2.6(1) of the Biodiversity Conservation SEPP. Chapter 6 – Water catchments The Biodiversity and Conservation SEPP includes Chapter 6 which refers to provisions for the Sydney Harbour Catchment. It provides guidance on the aims of the legislation which include: ■ providing for healthy water catchments that will deliver high quality water to the Sydney area while also permitting compatible development; and ■ to provide for development in the Sydney Harbour Catchment to have a neutral or beneficial effect on water quality, including in relation to the Toongabbie Creek. The indicative development footprint is located within the Sydney Harbour Catchment in Greater Sydney. Toongabbie Creek is located approximately 90 m from the site. Accordingly, the Baulkham Hills BESS project would consider the requirement of Water NSW current practices and standards which would be considered at EIS stage, in addition to the legislation requirements concerning effect on water quality and a Neutral or Beneficial Effect (NorBE) assessment.
SEPP (Sustainable Buildings) 2022	Chapter 3 Standards for non-residential development Chapter 3 of the <i>State Environmental Planning Policy (Sustainable Buildings)</i> outlines the standards for non-residential development, which include: <i>(a) the minimisation of waste from associated demolition and construction, including by the choice and reuse of building materials</i> <i>(b) a reduction in peak demand for electricity, including through the use of energy efficient technology,</i> <i>(c) a reduction in the reliance on artificial lighting and mechanical heating and cooling through passive design</i> <i>(d) the generation and storage of renewable energy</i> <i>(e) the metering and monitoring of energy consumption,</i> <i>(f) the minimisation of the consumption of potable water.</i> An assessment of the standards listed above and the embodied emissions attributable to the development will be quantified within the EIS.
Parramatta Local Environmental Plan 2023	The northern extent of the property is mapped as being within the “Toongabbie Government Farm Archaeological Site”, which has local and State significance. Whilst outside of the indicative development footprint, there remains the potential for the construction and operation of the Baulkham Hills BESS project to impact the integrity of this feature. A Statement of Heritage Impact would be required to assess the potential for such impacts. The property is located within the 1% annual exceedance probability (AEP) (City of Parramatta 2024) and, as such, is situated in a flood planning area under the Department of Planning and Environment’s Flood Risk Management Manual (DPE, 2023). Therefore ‘Clause 5.21 Flood Planning’ of the Paramatta LEP applies to the site. The northwestern portion of the property in mapped as ‘riparian land and waterways. Whilst the proposed Baulkham Hills BESS project is located approximately 150m south

Other Approvals	Requirement and consideration for the Baulkham Hills project
	of this area, further consideration would need to be afforded to 'Clause 6.4 Riparian land and waterways' to demonstrate that the proposed Baulkham Hills BESS project would not have an adverse impact on this land.
Parramatta Development Control Plan 2023	The Parramatta DCP applies to the same area as the Parramatta LEP 2023 and came into effect on 18 September 2023. The Parramatta DCP is Council's current plan that provide development controls for development permitted under the Parramatta LEP 2023. Specifically, the PDCP 2023 sets out the objectives and development controls for built form and environmental outcomes that are acceptable for different land uses and development types. Applicants must demonstrate compliance with these controls when they propose new developments. Part 2.2 of the Planning Systems SEPP states that DCPs do not apply to SSDs. As this project is considered SSD, the Parramatta DCP would not apply. As such, this EIS does not require an assessment against section 4.15(1)(a)(iii) of the EP&A Act.

4.4 Pre-conditions to exercising the power to grant approval

4.4.1 Project approvals

This section provides an overview of the other approvals required to undertake the project. Approvals required for the project are identified in

Table 4-2: Project approvals

Legislation	Approval	Authority
<i>EP&A Act</i>	Development Approval	DPHI
<i>Roads Act</i>	Section 138 Approval (if required)	Council/TfNSW

4.4.2 Mandatory Matters for Consideration

The mandatory matters for consideration under the relevant Environmental Planning Instruments and legislation are outlined in Table 4-3. Any further requirements will be identified within the SEARs.

Table 4-3: Mandatory matters for consideration

Mandatory matters for consideration
<i>Environmental Planning and Assessment Act 1979</i> ■ Section 1.3 Objects of Act ■ Section 7.2 Application of Part 7 of <i>Biodiversity Conservation Act 2016</i> and Part 7A of <i>Fisheries Management Act 1994</i> (cf previous s 5AA) ■ Section 4.14 Consultation and development consent—certain bush fire prone land (cf previous s 79BA) ■ Section 4.15 Evaluation (a) The provisions of— (i) any environmental planning instrument (ii) any draft environmental planning instrument) (iii) any development control plan (iii) any planning agreement or draft planning agreement (iv) the regulations (b) the likely impacts of that development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality,

Mandatory matters for consideration

- (c) the suitability of the site for the development,
- (d) any submissions made in accordance with this Act or the regulations,
- (e) the public interest.

Environmental Planning and Assessment Regulation 2021

- Clause 23 Persons who may make development applications
- Clause 28 Development applications relating to *Biodiversity Conservation Act 2016*
- Clause 59 Additional requirements for State significant development—the Act, s 4.39
- Clause 190 Form of environmental impact statement
- Clause 191 Compliance with environmental assessment requirements
- Clause 192 Content of environmental impact statement • Clause 193 Principles of ecologically sustainable development

Biodiversity Conservation Act 2016

- Section 7.9 Biodiversity assessment for State significant development or infrastructure

National Parks and Wildlife Act 1974

- Part 6 Aboriginal objects and Aboriginal places

State Environmental Planning Policy (Resilience and Hazards) 2021

- Clause 3.11 Preparation of preliminary hazard analysis.
- Clause 3.12 Matters for consideration by consent authorities.
- Clause 4.6 Contamination and remediation to be considered in determining development application.

State Environmental Planning Policy (Transport and Infrastructure) 2021

- Section 2.48 Determination of development applications—other development

Parramatta Local Environmental Plan 2023

- Clause 6.2 Earthworks
- Clause 6.3 Biodiversity
- Clause 6.4 Riparian land and waterways
- Clause 6.7 Essential Services

5 Engagement

5.1 Overview

Consultation and engagement with project stakeholders and the local community will be a key consideration as the Baulkham Hills BESS project continues to progress. Initial engagement has commenced ahead of the scoping report lodgement and will continue as the Baulkham Hills BESS project progresses. The overarching objectives of the Baulkham Hills BESS project's engagement approach are to:

- provide timely information regarding the Baulkham Hills BESS project, channels for providing feedback and the approvals pathway to interested and impacted parties;
- build on existing relationships with preliminary stakeholders in the area and develop new relationships;
- encourage active stakeholder participation and facilitate feedback / inputs on the Baulkham Hills BESS project; and
- demonstrate how community and stakeholder issues and feedback are being captured and used to inform project development and assessment.

While the Baulkham Hills BESS project is in its early stage, the focus of engagement activities will be to provide community and key stakeholders with a project overview and to welcome early feedback. Further, the Ausconnex community and stakeholder engagement approach taken to date includes providing information specific to each project, which provides transparency on both project specific as well as potential cumulative impacts.

5.2 Engagement approach

The engagement and consultation process follows the International Association of Public Participation (IAP2) Spectrum of Public Participation. The IAP2 Spectrum helps to establish the public's role in the engagement process and their impact on the decision-making outcomes of a project. A copy of the newsletter used to engage with communities over the project is attached as Appendix D. Principles for engagement that have been followed for this process include:

- be transparent and accountable;
- be honest and open about project considerations, impacts and opportunities;
- share timely information that allows people with an interest to provide informed feedback; and
- provide effective channels for feedback and input.

The proposed IAP2 engagement approach, as adopted, aligns with the requirements from the Undertaking Engagement Guidelines for State Significant Projects (DPHI, 2024a). Community members and stakeholders will continue to be provided with timely, balanced and objective information throughout the assessment timeline of the Baulkham Hills BESS project.

A Community and Stakeholder Engagement Plan and a detailed Action Plan have been developed for the Baulkham Hills BESS project to guide appropriate, transparent and strategic engagement with all relevant stakeholders, including residents, government agencies, council, Aboriginal communities (Traditional Owners) and the local community within a 500 metre radius (refer to Appendix E). These plans will be reviewed regularly to ensure the approach to engagement and consultation remains fit for purpose throughout the planning and approvals phase and beyond.

An engagement outcomes report will document all the engagement that has taken place throughout the Scoping and EIS phases of the project, including feedback received on the project, sentiment and next steps for the Baulkham Hills BESS project. The engagement outcomes report will be an appendix supporting the EIS.

The Ausconnex community and stakeholder engagement approach taken to date includes providing information specific to each project, in an effort to be transparent on both specific as well as potential cumulative impacts.

5.2.1 Engagement tools

The community and stakeholder engagement team communicates and engages with the community and stakeholders through multiple channels in relation to the Baulkham Hills BESS project. Engagement undertaken to date including that to be undertaken will make use of a range of tools including the following:

- a project website, project email and 1800 community information number for stakeholders to contact the engagement team, enquire about the Baulkham Hills BESS project and provide comments and feedback;
- introductory email to key stakeholders with an introductory newsletter outlining the proposed infrastructure at Baulkham Hills, including the Baulkham Hills BESS project to start building community and stakeholder knowledge and awareness of the project;
- project introductory newsletter distributed across the project's sensitive receiver area;
- online and face-to-face community information session(s);
- key agency stakeholder meetings; and
- engagement monitoring and stakeholder consultation record keeping.

5.3 Community interest and extent of engagement

Given the nature and location of the Baulkham Hills BESS project, the geographical extent of interest was anticipated to extend about 500 m from the indicative development footprint. This geographical extent was initially agreed during consultation with DPHI at the initial scoping meeting held with Ausconnex in September 2024.

During the subsequent site inspection to investigate the potential impacts to sensitive receivers (refer to Figure 2-2), the 500-metre geographic extent of interest was confirmed based on:

- pre-existing site conditions, making use of disused land within the existing transmission substation site including a suitable direct connection to the substation without the need for overhead transmission;
- the project site located within an urban area, immediately adjoined by industrial development to the east, and frontage to the classified road (Old Windsor Road) with significant traffic volumes in a high speed environment (80 km speed limit) with an existing noise barrier to the road infrastructure separating residential receivers to the west of the project site;
- anticipated environmental impacts including limited visibility by surrounding sensitive receivers and localised anticipated potential noise and vibration and air quality impacts.

To date, the following engagement activities have been undertaken:

- A project notification newsletter (refer to Appendix D) informing the local community of the Baulkham Hills BESS project was then circulated on 4 December 2024 to all dwellings and businesses within a 500 m radius of the indicative development footprint including key stakeholders (as discussed in Table 5.1).
- A project website (<https://www.ausconnex.com.au/bess-project/bess/#topbess>), email address and 1800 number was provided for feedback or to request further information about the Baulkham Hills BESS project.
- The project notification newsletter was also issued to a number of key stakeholders as outlined in Appendix E.

Following the letter box drop on 4 December 2024, at the time of lodgement of this Scoping Report, no feedback has been received from the community.

Whilst the level of community interest has been low, this may increase once further information is made available, given the proximity of the project to residential receivers (the closest located 50m south-west of the indicative development footprint).

As outlined within the Community and Stakeholder Engagement Plan (Appendix E), the most effective of engagement with the community and stakeholder at any given point in time will be reviewed and adapted to encourage community participation in the project. This is a real time responsive approach to engagement with the local community and stakeholders.

The engagement and communication channels will remain available for community members and stakeholders to provide feedback and contact the team should they have any questions about the Baulkham Hills BESS project.

5.4 Key stakeholders

Key stakeholders that were identified and engaged in advance of this scoping report being formally submitted are outlined in Table 5-1.

To date, no feedback has been received. The engagement and communication channels will remain available for community members and stakeholders to provide feedback and contact the team should they have any questions about the Baulkham Hills BESS project.

Table 5-1: Key stakeholders

Key stakeholders to engage	Engagement to date	Preliminary feedback
Residents and businesses Landowners, residents and businesses (including retail shopping centres and independent retail businesses) within 500m of the indicative development footprint.	Project notification newsletter	None to date.
Traditional Owners Metropolitan Local Aboriginal Land Council (LALC).	Project notification newsletter	None to date.
Industry and infrastructure - Transport for NSW; and - Endeavour Energy.	Project notification newsletter	None to date.
NSW Government Ministers, Members, local representatives	Project notification newsletter	None to date.
Department of Planning, Housing and Infrastructure	Scoping Meeting held 26 September 2024	Feedback was provided on the SSD application including project specific requirements to confirm throughout the scoping report or EIS including: - Undertaking a Preliminary Hazards Analysis in particular, given the nature of the surrounding industrial area; - Assessment of any off-site impacts including for grid connection and traffic access; - Undertaking early engagement with community and key stakeholders; - Detailed noise assessment to ensure compliance with the Noise Policy for Industry (EPA, 2017); and - Assessment of cumulative impacts.
Relevant government agencies	Project notification newsletter	None to date.

Key stakeholders to engage	Engagement to date	Preliminary feedback
EPA.		
Parramatta City Council - Mayor and Counsellors; and - Parramatta City Council leadership team	Project notification newsletter	None to date.
Local emergency services - Fire and Rescue NSW; - Castle Hill Ambulance, Castle Hill; and - Castle Hill Police Station, Castle Hill.	Project notification newsletter	None to date.
Community Infrastructure Childcare centres, schools, places of worship, community halls directly adjacent or near the indicative development footprint.	Project notification newsletter	None to date.
Future developers in the area Local construction/ development companies	Nil	None to date.
Media (including local newspapers, news networks, community blogs and LGA newsletters)	Nil	None to date.

5.5 EIS engagement

Community and key stakeholder consultation would continue during the preparation of the EIS. Feedback received from consultation and/or engagement sessions would be used to inform the investigations undertaken during the environmental assessment phase of the EIS.

The EIS will identify opportunities to manage and minimise potential environmental and social impacts, as the design is refined as the Baulkham Hills BESS project progresses and the environmental and social assessments are undertaken.

Ongoing consultation and timely sharing of information will be undertaken with the community and stakeholders in the interest of achieving best for project outcomes. Where necessary, engagement approaches will also be adapted to reflect community feedback and/or material changes in the scope and nature of the Baulkham Hills BESS project. Engagement activities to be undertaken during the preparation of the EIS include:

- continued monitoring and responding to comments and feedback submitted to the project website, project email and 1800 community information number for stakeholders;
- conducting online and face-to-face community information session(s);
- key agency stakeholder meetings; and
- engagement monitoring and stakeholder consultation record keeping.

Elements of the project that may be influenced or shaped by the community up to and following on from public exhibition of the EIS, subject to manufacturers requirements for safety and feasibility, could include:

- the opportunity to further refine the design of the BESS beyond current scope to address aspects related to offensive noise and or visual impacts (e.g. via the introduction of at source mitigation measures including noise barriers and landscaping treatments);
- construction and training opportunities provided by the Baulkham Hills BESS project could be informed by the needs and aspirations of the local community; and

- opportunities for educational information to be developed regarding the electricity network transition to renewable energy over time within our communities.

5.6 Project exhibition

In accordance with the EP&A Act and the SSD approval pathway, the Baulkham Hills BESS project EIS will be publicly exhibited for a minimum of 28 days to capture community views on the project and help inform next steps in assessment of the project.

6 Proposed assessment of impacts

For the purposes of the preliminary assessments undertaken at this stage of the Baulkham Hills BESS project, a 100 MW/ 200 MWh BESS development has been assumed.

This section of the Scoping Report identifies those matters requiring further assessment in the EIS for the Baulkham Hills BESS and the level of assessment that should be carried out. In accordance with the SSD guidelines – preparing a scoping report (DPHI, 2022), this Scoping Report identified areas of environmental impact where more detailed assessment of impacts is required, where the Baulkham Hills BESS project may result in significant impacts on the matter and where impacts are not well understood. For matters where the Baulkham Hills BESS project is unlikely to result in a significant impact and or impacts can be effectively managed by way of conditions to mitigate impacts, a standard level of assessment is suitable.

The assessment of impacts in the EIS will be undertaken in accordance with the State significant development guidelines – preparing an environmental impact statement (DPHI, 2022).

Preliminary assessments have considered the following:

- existing site conditions (using aerial imagery and desktop information)
- site visits to the indicative development footprint and surrounds and
- the proposed development including construction and operational requirements and methodologies.

The findings below are summarised in Appendix A.

Based on preliminary site inspections and desktop review, the level of assessment required for the EIS and identified for each matter is as follows, in order of magnitude of potential impact:

Environmental aspect	Level of assessment proposed for EIS
Detailed assessment proposed	
Amenity- Noise and vibration	Detailed – Noise and vibration impact assessment
Hazards and risk	Detailed – Preliminary hazard analysis, electromagnetic field assessment and bushfire impact assessment.
Historic heritage	Detailed – Statement of Heritage Impact
Amenity- Visual impact	Detailed – Visual impact assessment from key viewpoints. No landscape character assessment proposed.
Traffic, transport and access	Detailed – Traffic, transport and access assessment including OSOM routes
Water	Detailed – Water quality and hydrology impact assessments and qualitative flood risk assessment. No groundwater impact assessment proposed.
Standard assessments proposed	
Social and economic impacts	Standard – Social impact assessment incorporating economic impacts (as relevant). The Benefit-Sharing Guideline 2024 and Private Agreement Guideline 2024 do not apply to this project as the project is BESS on non-rural zoned land.
Soils and contamination	Standard – Preliminary environmental investigation
Waste management	Standard assessment in the EIS

Environmental aspect	Level of assessment proposed for EIS
Cumulative impacts	A project-level cumulative impact assessment would be undertaken in accordance with the Cumulative impact assessment guidelines for State significant projects (DPIE, 2022)
No further assessment in the EIS	
Land use (including agricultural land)	No further assessment in the EIS
Aboriginal heritage	No further assessment in the EIS
Air quality	No further assessment in the EIS
Biodiversity	No further assessment in the EIS – BDAR Waiver request submitted

The final EIS assessment approach would be further informed by the Baulkham Hills BESS project SEARs and the requirements of the relevant agencies and project stakeholders. For all detailed assessments the EIS will consider both construction and operational impacts, cumulative assessments and mitigation measures required.

6.1 Amenity- Noise and vibration

6.1.1 Existing environment

The existing local noise environment is influenced by surrounding industrial activity and ambient road noise. Existing noise is generated from:

- a large scale development (warehousing and logistics) located along the eastern and southern boundary of the indicative development footprint (refer to Figure 3-2);
- the Baulkham Hills Substation to the west, which is operational 24 hours a day; and
- road traffic noise from vehicles on the Old Windsor Road corridor, which adjoins the indicative development footprint immediately on the southwest boundary.

These existing developments and road traffic contribute to the noise environment and baseline noise considerations at the indicative development footprint.

The nearest residential receivers are located around 50 m southwest of the indicative development footprint along Old Windsor Road and approximately 170m north of the site along Goliath Avenue, Winston Hills (as shown in Figure 3-2). There is an existing noise wall located on the southwestern side of Old Windsor Road, providing acoustic attenuation and screening for most residential receivers from the indicative development footprint.

The indicative development footprint is adjacent to State heritage listed 'Toongabbie Government Farm Archaeological Site'.

The closest public recreation area is located within Oakes Reserve, which is located north of the project and includes the Settlers Walk and the Palestine Park playground (refer to Figure 2-1).

6.1.2 Summary of potential environmental impacts

The local noise environment would be influenced by surrounding industrial activity and road traffic noise from along Old Windsor Road. Noise would be partially screened by existing built structures, such as the existing noise wall along Old Windsor Road located between the nearest south western residential dwellings and the Baulkham Hills BESS project.

Sensitive receivers north of the project along Goliath Avenue, Winston Hills are not screened by any intervening built structures.

Unmitigated noise generated during construction and operation of the Baulkham Hills BESS project may result in noise levels above relevant noise criteria at nearby residential receivers. There may also be the potential for other noise and vibration-related impacts (e.g., noise impacts during decommissioning, vibration impacts during construction and noise generated by construction traffic, such as the movement of heavy vehicles, and construction workforce) that would also require consideration within the EIS.

Given the proximity to the adjacent State heritage listed 'Toongabbie Government Farm Archaeological Site', vibration impacts from the Baulkham Hills BESS project may have an impact on subsurface archaeological items.

Operational noise impacts would be required to be mitigated to meet the requirements of the Noise Policy for Industry (EPA, 2017).

6.1.3 Assessment approach

The EIS will include a noise and vibration impact assessment (NVIA), which will involve an assessment of likely construction (including decommissioning) and operation noise impacts and recommendations for mitigation measures to avoid or minimise noise and vibration impacts on nearby sensitive receivers around the indicative development footprint.

Specifically, the NVIA will assess all components of the Baulkham Hills BESS project including:

- noise and vibration-related impacts during construction phasing for the commissioning / decommissioning of BESS infrastructure during earthworks and assembly will be assessed in accordance with the requirements of the Interim Construction Noise Guideline (DECCAW, 2009) or the current version of the draft Construction Noise Guideline (EPA, 2020) if published before SEARs for the Baulkham Hills BESS project are issued;
- construction traffic noise comprising a range of vehicles including OSOM and heavy vehicles, and workforce movements under the NSW Road Noise Policy (DECCW, 2011);
- vibration impacts including to the State heritage listed 'Toongabbie Government Farm Archaeological Site', under Assessing Vibration: A technical guideline (DEC, 2006), British Standard BS 7385-2:1993 Evaluation and measurement for vibration in buildings – Part 2: Guide to damage levels from ground-borne vibration and German Standard DIN 4150-3:2016 Vibrations in buildings – Part 3: Effects on structures; and
- operational noise impacts from the proposal would be required to be mitigated for compliance with the Noise Policy for Industry (EPA, 2017) at all noise sensitive receivers locations. This will include results from background noise monitoring and modelling at all sensitive receiver locations currently underway, and consideration of cumulative impacts;

The NVIA will include how the operating noise level of plan and equipment for the 20 year lease for the Baulkham Hills BESS project will comply with all relevant noise policies. Importantly, any findings to avoid, minimise and or mitigate noise and vibration impacts from operational noise on sensitive receivers and or increasing ambient noise levels in the local area will be included as recommendations for action, where required.

The NVIA will include any construction phasing (including detailing construction hours (standard hours), scheduling of noisy construction activities and timeframes associated with commissioning and

decommissioning of BESS infrastructure over the 21 month construction period. Where required, measures to minimise and mitigate noise generated from construction activities to noise sensitive receivers and or increasing ambient noise levels in the local area (in response to cumulative impacts) requiring action prior to construction commencing will be detailed.

6.2 Hazards and risks

6.2.1 Existing environment

Hazardous materials

The indicative development footprint is located adjacent to the existing Baulkham Hills Transmission Substation and occupies an area of 0.4 ha of the existing 1.23 ha substation. As mentioned in Section 2.3.1, the infrastructure of the existing substation includes service and control buildings, 132 kV feeder bays, 132/33 kV transformers, 33kV feeder bays and capacitors. There are 3 transmission towers located in the northern portion of the site, as well as various overhead and underground transmission lines traversing the property. The perimeter of the transmission infrastructure is fenced for a safe work environment and to prevent unauthorised entry. Dangerous goods stored at the Baulkham Hills Substation include transformer oil, diesel fuel, lubricating oil, petrol, pesticides and miscellaneous cleaning chemicals.

Electromagnetic Field

Electromagnetic Fields (EMFs) are created by differences in voltage (electric fields) or when electric current flows (magnetic fields). Of relevance, the existing Baulkham Hills Substation is located directly west of the indicative development footprint, with various overhead and underground transmission lines traversing the property. These include:

- a 33 kV overhead line traverses the eastern boundary of the property (along the fence line of the existing substation). This existing overhead line is located within the indicative development footprint and would require relocation or undergrounding to accommodate the proposed Baulkham Hills BESS project; and
- an existing telecommunications tower is located on the eastern boundary of the property.

Fire and Bushfire

The indicative development footprint is not located within mapped bushfire-prone land (SEED 2024). The closest bushfire-prone land (non-EPI) is approximately 740 m to the south-east of the indicative development footprint.

The vegetation on the indicative development footprint comprises of grass and planted native and exotic midstory and canopy vegetation, some of which will be removed as a result of the development, including 41 planted trees on the eastern boundary of the indicative development footprint.

The existing dirt access track is currently in use 24/7 for operational vehicles entering the existing fenced substation. Operational vehicles do not station in this driveway or section of the site. The access track will be maintained during the construction and operation phases of the project.

BESS infrastructure does not contain built-in smoke, gas or fire detection or suppression features based on the manufacturer's requirements. This poses a potential fire risk but has been designed to mitigate such hazards from spreading to surrounding units or exposures through minimum clearances of the development footprint on all sides to combustible or ignitable structures and to ignitable liquid sources. The existing Baulkham Hills Transmission substation infrastructure adjacent to the indicative development footprint may also increase the fire risk to nearby receivers.

High pressure gas and fuel lines

As mentioned in Section 2.3.1, a high-pressure gas main inspection point (Jemena) is located immediately adjacent to the southeastern boundary of the existing substation site. The alignment of the inspection point suggests that the pressure gas main traverses the frontage of the property and is within proximity of the indicative development footprint.

A high-pressure fuel line (Ampol) is also located immediately adjacent to the south-eastern boundary of the existing substation site on Reynolds Street. The alignment of the route and intersection point of the fuel pipeline is close to the intersection of Reynolds Street and Old Windsor Road, within 50 m opposite of the indicative development footprint.

The project would not impact upon or need to relocate the high-pressure gas or high-pressure fuel lines.

6.2.2 Summary of potential environmental impacts

Potential hazards and risks associated with the Baulkham Hills BESS project include thermal events (overheating), fire, hazardous chemicals and gas emissions, bushfire risk, and exposure to electromagnetic fields. To minimise the likelihood of these potential impacts, the design, installation and operation of the battery system would be in accordance with the manufacturers requirements, and relevant Australian standards and guidelines.

EMF

The BESS infrastructure would introduce additional sources of EMF. Electric fields are shielded within the enclosure to the battery system and therefore electric fields outside enclosed equipment and associated with underground cables is expected to be negligible.

Alternating and variable current (AC) magnetic fields will be present when equipment is energised. For primary sources such as underground feeder cables, the field level will be highest above the cables and will rapidly drop off with distance from the source.

Given the inconclusive nature of the science regarding AC magnetic fields and human health, it is widely considered that a prudent avoidance approach is the most appropriate response under the circumstances.

Fire and bushfire

There is a risk that construction activities, plant, equipment and infrastructure could result in a fire or be impacted by bushfire. The indicative development footprint would be largely cleared of vegetation except along the southern perimeter of the existing Baulkham Hills Transmission Substation. Appropriate separation distances between the BESS and access roads, infrastructure, and combustible objects like trees is proposed as per the manufacturers requirements and is included in the design to mitigate the risk of spreading to surrounding combustible objects.

Whilst the indicative development footprint is not bushfire prone land, the spread of a fire near the indicative development footprint could also impact the Baulkham Hills BESS project during operation.

In addition to accommodating appropriate separation distances from vegetation within the indicative development footprint, appropriate fire suppression apparatus and installations would be incorporated into the design.

6.2.3 Assessment approach

Fire, hazardous materials and EMF

The EIS will include a Preliminary Hazard Assessment (PHA) as per Chapter 3 of the Resilience and Hazards SEPP, to assess potential hazards and events related to the design, installation and operation of the Baulkham Hills BESS project in further detail. This will include detailed consideration of how the design and operation of the HV BESS system can be effectively managed to respond to potential risks over its lifecycle, to give local communities greater certainty and transparency over new renewable projects. The PHA will be prepared in accordance with the Hazardous Industry Planning Advisory Paper (HIPAP) No. 6 Guideline for Hazard Analysis and the Multi-Level Risk Assessment (Department of Planning 2011a; 2011b).

Assessment of the fire risk of the Baulkham Hills BESS project within a detailed hazards assessment prepared for the EIS is recommended to understand the risk of the BESS propagating a fire within the locality. Further consideration is essential to understand the potential impact on fire risk, particularly when introducing elements that may substantially increase or alter the risk. This could include the introduction of fire-hazardous infrastructure or engaging in extensive hot works that might propagate a fire within the locality.

Assessment of potential impacts on sensitive receivers will be carried out as part of the EIS to ensure EMF risks and exposure levels as a result of the Baulkham Hills BESS project remain within safe levels. Prudent avoidance involves reducing magnetic field exposure to ensure the intensity of the fields generated in frequented areas is minimised, where this is practicable and can be done at no or very low cost. Assessment of EMF will be in line with the International Commission on Non-Ionizing Radiation Protection (ICNIRP) Guidelines for limiting exposure to Time-varying Electric, Magnetic and Electromagnetic Fields (ICNIRP, 2010) and the policy of prudent avoidance.

Bushfire

The manufacturer's requirements for appropriate separation distance from vegetation would improve the bushfire risk of the BESS to surrounding vegetation. This assessment would include an initial preliminary screening assessment to determine the risk to people, property and environment. This will be in the form of a Bushfire Risk Assessment prepared in accordance with the requirements of Planning for Bush Fire Protection 2019 (NSW Rural Fire Service, 2019).

6.3 Historic (non-Aboriginal) heritage

6.3.1 Existing environment

A search of the State Heritage Register (NSW Environmental and Heritage 2024) and Commonwealth Heritage Register (DCCEEW 2024) on 10th December 2024 revealed that the northern and eastern portion of the property adjoins the 'Toongabbie Government Farm Archaeological Site' (SHR #01903). The indicative development footprint does not enter into the curtilage of this State heritage site.

This site has State historical significance as the earliest government farming enterprise outside the first two colonial administrative centres of Sydney and Parramatta, and in 1971 was given the name Toongabbie, used by the Indigenous peoples to identify the area (NSW Environmental and Heritage 2024).

Statement of Significance: The Toongabbie Government Farm Archaeological Site is of State heritage significance for its capacity to demonstrate strategies developed during the foundation years of the colonial settlement by Governor Phillip to best utilise convict workers outside an urban area. Governor Phillip's policies towards ordinary transportees and, later, the small minority who reoffended, are highly significant for the development of the colony under his immediate successors. The Toongabbie site has an essential role in understanding and interpreting the physical dimensions of these solutions. Toongabbie was a vitally

important stage in the evolution of new settlements such as Newcastle and Port Macquarie exclusively designed as places of secondary punishment. Because of its critical role in feeding the struggling early colony by its production of wheat, maize and barley, the historical significance of Toongabbie Government Farm in the years 1791 to 1794 is especially high.

Other local heritage items registered under the Parramatta LEP 2023 within about 500 m of the indicative development footprint include:

- Old Toongabbie Uniting Church (ID I451). This item is located around 580 m southeast of the indicative development footprint.
- Toongabbie Public School (ID I450). This item is located around 520 m southwest of the indicative development footprint.
- Marist Fathers Seminary (ID I710). This item is located around 380 m southwest of the indicative development footprint.

Heritage items in proximity of the indicative development footprint are shown in Figure 6-1.

A search of the Australian Heritage Database on 10th December 2024 (DCCEEW 2024) identified no known Commonwealth heritage sites within 200 m of the indicative development footprint.

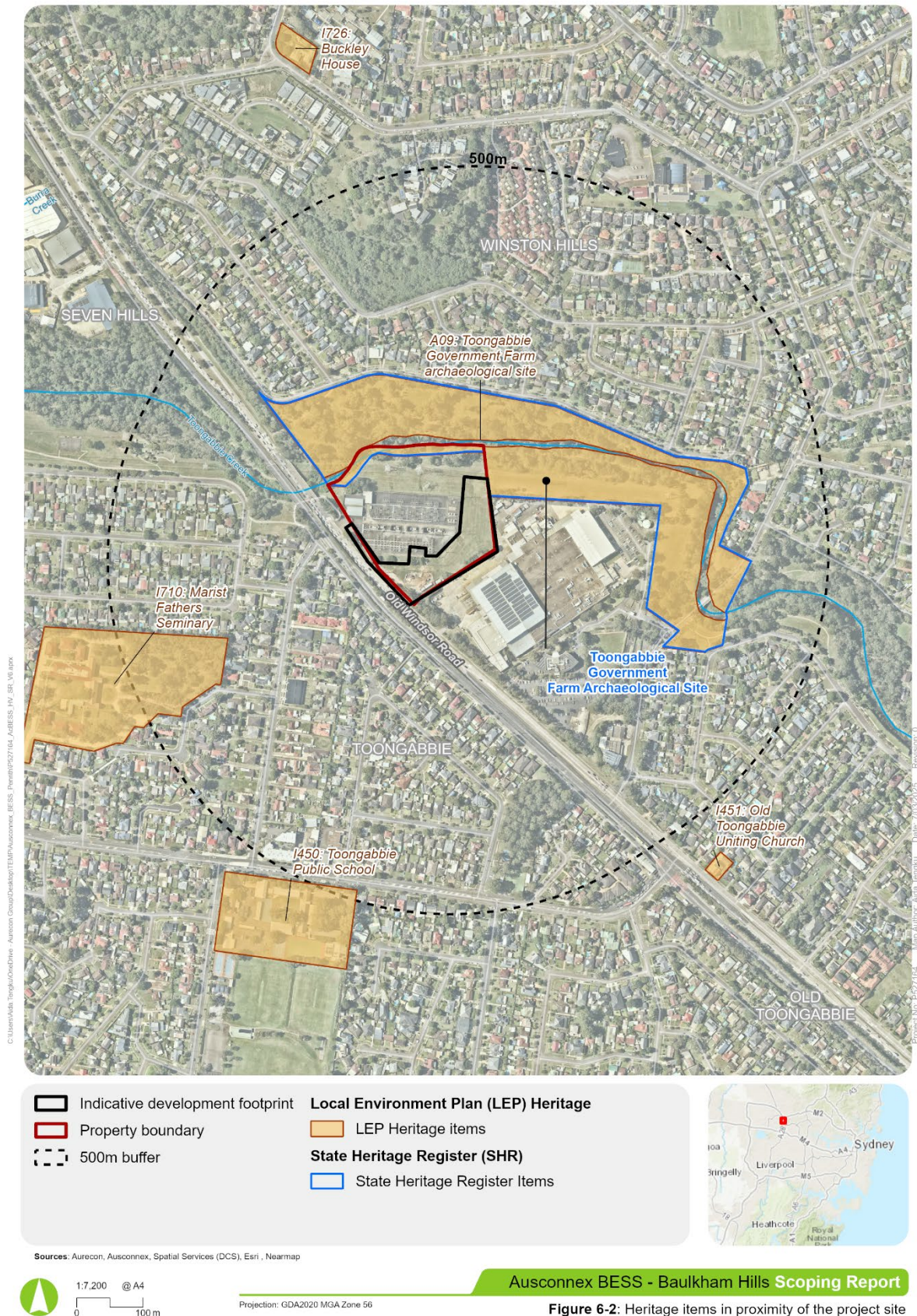


Figure 6-2: Heritage items in proximity of the project site

Figure 6-1: Heritage items in the proximity of the indicative development footprint

6.3.2 Summary of potential environmental impacts

The proposed Baulkham Hills BESS project would be located directly adjacent (west) of the curtilage of the mapped State heritage area and does not encroach into the curtilage of the State heritage listed Toongabbie Government Farm Archaeological Site. Although outside of the indicative development footprint, there remains the potential for the construction of the Baulkham Hills BESS project to have a direct or indirect impact on the significance of the “Toongabbie Government Farm Archaeological Site”.

Impacts may include:

- vibration impacts which may disturb archaeological deposits (if not managed appropriately);
- additional archaeology may potentially extend into the indicative development footprint due the close proximity of the curtilage to the development footprint; and
- indirect impacts to the significance of the item due to additional electrical infrastructure located in close proximity to archaeological site.

6.3.3 Assessment approach

The EIS will include an assessment of historical heritage values, including identifying whether historical heritage items are likely to be present within the indicative development footprint. Any recorded historical heritage items in the vicinity of the indicative development footprint will be subject to a significance assessment and mitigation measures will be proposed to minimise potential impacts to any identified and recorded historical heritage items or areas.

Further investigation would be required to assess the likely impact of the Baulkham Hills BESS project on nearby heritage items, including:

- Statement of Heritage Impact in accordance with Guidelines for Preparing a Statement of Heritage Impact (DPE 2023); and
- Vibration assessment mitigation measures against potential physical impact on nearby heritage items (refer to Section 6.1 for further details).

6.4 Amenity- visual impacts

6.4.1 Existing environment

The local visual environment surrounding the indicative development footprint is influenced by surrounding industrial activity, the Old Windsor Road corridor and the recreational area to the north of the indicative development footprint.

The site is not identified as land with scenic and landscape values within the Parramatta LEP (PLEP 2023). The electricity grid infrastructure in adjacent to the indicative development footprint consists of a substation, large steel lattice transmission towers and overhead wires which creates a distinctive industrial character when viewed from Old Windsor Road.

Given the nature of the indicative development footprint which slopes to the rear boundary with Toongabbie Creek, this riverfront part of the land cannot be seen from the roadway. This rear portion of the property boundary comprises riparian vegetation along the Toongabbie Creek line and is bound by Oakes Reserve. Beyond are generally screened views to detached residential properties.

The immediate locality is characterised by a mix of industrial and residential development separated by the arterial roadway of Old Windsor Road.

The closest residential receiver is located 50 m southwest of the indicative development footprint, on the western side of Old Windsor Road. North of Toongabbie Creek, residential receivers and Palestine Park playground within Oaks Reserve to the north are located 170m from the indicative development footprint.

As discussed in Section 2.3, the indicative development footprint has been cleared of remnant vegetation and comprises mown and managed native and exotic grass and weed species and planted native and exotic midstory and canopy vegetation.

6.4.2 Summary of potential environmental impacts

The residential receivers to the west of the indicative development footprint are separated by Old Windsor Road and an existing noise wall on its south, which mostly restricts the line of sight of the proposed Baulkham Hills BESS project.

The riparian vegetation of Toongabbie Creek provides some screening for residential receivers to the north along Goliath Avenue and Palestine Park playground within Oaks Reserve, however, the site remains partially visible from these receivers.

During construction and decommissioning, there would be temporary changes to the visual amenity from construction vehicles and equipment, as well as establishment of temporary construction facilities such as laydown areas.

During operation, the Baulkham Hills BESS project would likely result in visual impacts on some residential properties along Old Windsor Road (with views over the existing noise wall) and along Goliath Avenue, despite the partial screening provided by existing trees. These potential visual amenity impacts associated with the Baulkham Hills BESS project during operation would include the introduction of new permanent electricity infrastructure and the BESS components. However, the Baulkham Hills BESS project assets are mostly low-lying infrastructure (about 3m high) with limited taller elements.

The visual amenity impacts associated with the removal of planted native and exotic midstory and canopy vegetation will be further assessed in the EIS. Vegetation removal is anticipated to include the removal of approximately 41 planted trees, consisting of non-native, native endemic and native non-endemic species (refer to Photo 2-5).

The Baulkham Hills BESS project would remain visually consistent with the industrial setting of the property and surrounding area which would minimise the magnitude of visual impact to surrounding receivers. Although the proposed BESS infrastructure would be visually consistent with the surrounding area, mitigation measures could include additional screening to the north of the site, such as tree plantings.

6.4.3 Assessment approach

Given the existing nature of the indicative development footprint, adjoining industrial context and distance to sensitive receivers, a qualitative visual impact assessment will be undertaken as part of the EIS. This would include an assessment of the likely visual impacts of the Baulkham Hills BESS project on surrounding sensitive receivers including residential properties along Old Windsor Road (with views over the existing noise wall) and Goliath Avenue and the playground within Oaks Reserve.

6.5 Traffic, transport and access

6.5.1 Existing environment

Local road network

As discussed in Section 2.3.1, the property is currently accessible from Old Windsor Road (A40), a double-lane, two-way classified as a State Road owned by Transport for NSW. This arterial road has a posted speed limit of 80 kilometres per hour (kph) and provides connectivity between the Parramatta CBD (approximately 6 km west of the site) and Windsor and suburbs within the Parramatta LGA.

Old Windsor Road services the indicative development footprint is well-suited to heavy haulage vehicles as the road is approved for OSOM Load Carrying Vehicles in accordance with the NSW OSOM Load Carrying Vehicles Network Map (NHVR 2023). Hence, construction vehicles (heavy and light) would be able to use the existing access to the to access the indicative development footprint.

Access to the project site

The project site is accessible from Old Windsor Road via an existing sealed driveway layback (approximately 18m wide) on the southwest boundary of the property. There is an additional 6m wide unsealed (dirt) track to the east of the sealed driveway, which is proposed to be sealed as part of the project to provide access to indicative development footprint. There is currently no formal parking within the property. A pedestrian footpath exists immediately beyond the site frontage (refer to Photo 2-1).

Public Transport

The North-West Transitway runs parallel and slightly west of Old Windsor Road, which is a continuous series of bus-only-lanes and roadways between Parramatta, Blacktown, and Rouse Hill. The Baulkham Hills BESS project would not interfere with the operation of the North-West Transitway. There are no bus stops or cycleways along Old Windsor Road along the subject site frontage length or in the vicinity of the property (TfNSW, 2019). It is noted that the bus stops adjacent to the site on Old Windsor Road are screened by the existing noise wall, which also restricts direct access to the bus stops from the indicative development footprint.

The closest train station is Toongabbie Railway Station, which is 1.7km southwest of the indicative development footprint. The Baulkham Hills BESS project would not impact the railway network.

6.5.2 Summary of potential environmental impacts

The location of the site is suitable for transporting materials to and from the indicative development footprint. A well-established site entrance, including a left in left out of Old Windsor Road arrangement combined with an 18 metre wide driveway would allow for easy access for large construction vehicles.

Based on various manufacturers requirements, OSOM vehicles would be needed to transport the transformers measuring approximately 24 m in length from Port Botany to the indicative development footprint. The OSOM vehicles would be the largest vehicle required for the Baulkham Hills BESS project and other heavy vehicle transport for BESS infrastructure would likely be semi-trailers.

6.5.2.1 Construction-phase impacts

During construction, impacts on traffic would be managed under a Construction Environmental Management Plan (CEMP) or Traffic Management Plan (TMP) including appropriate consultation and permits sought from either City of Parramatta Council and/or Transport for NSW.

A road dilapidation survey would be undertaken to assess road condition on Old Windsor Road prior to and post construction. Heavy vehicle trips are expected to occur during construction, associated with the delivery of HV BESS components and infrastructure and plant and equipment. Any other local or State road upgrades as a result of haulage for the purpose of the Baulkham Hills BESS project are unlikely; however this would be confirmed in during the EIS.

During the peak of construction, up to five heavy vehicles would access the indicative development footprint per day, mostly for the delivery of BESS components. This includes all construction vehicles, including OSOM vehicles and semi-trailers. A total of 40 OSOM movements (one per battery) are required during the construction phase (outside of peak traffic times), which is anticipated to be around 21 months. Up to 10 light vehicles are expected to access the indicative development footprint per day during the peak of construction.

It is expected that approximately 35 to 40 full time equivalent (FTE) jobs would be created during the peak construction period. The indicative development footprint would include staff parking and construction equipment laydown areas to avoid parking being required on public land. Additionally, Toongabbie train station is located approximately 1.7 km from the site and there are connecting bus services within a couple minutes' walk from Old Windsor Road. A noticeable increase in traffic during construction due to workers traveling by private vehicle is considered unlikely.

During construction, internal vehicular access to the existing substation on the property would be provided via a sealed driveway accessible from the southbound lane of Old Windsor Road, on the west/southwest side of the site. It is proposed that an approximately 6m wide access road will be constructed connecting to the existing site access for the substation. This access road would extend from the existing indicative development footprint access from Old Windsor Road towards the eastern edge and north-east corner of the indicative development footprint. No site access upgrades are required on land beyond the property boundary with the exception of formalising the site access from Old Windsor Road to the indicative development footprint.

6.5.2.2 Operational-phase impacts

Operational maintenance requirements for BESS developments are typically very infrequent given the ability to monitor and control the system remotely. Traffic and transport impacts during operation of the Baulkham Hills BESS project are expected to be limited and indistinguishable from current daily traffic variability. End of life commissioning (20 year) traffic needs, including large scale components and damaged equipment, would be similar in nature to construction traffic. Decommissioning of parts and end of the life details will be further discussed in the Traffic impact assessment as part of the project EIS.

6.5.3 Assessment approach

The EIS will include a traffic, transport and access impact assessment to assess risks and impacts associated with the construction, operation and decommissioning of the Baulkham Hills BESS project in accordance with the Guide to Traffic Management – Part 3 Traffic Studies and Analysis (Austroads, 2017) and the Guide to Traffic Generating Developments Version 2.2 (TfNSW, 2002).

The assessment will involve assessing the capacity of key access roads, impacts of OSOM vehicle requirements and haulage, including assessing potential project traffic impacts on the local road network capacity and road safety.

Consultation with City of Parramatta Council and Transport for NSW will be undertaken to understand potential impacts on local and State roads and potential impacts related to cumulative traffic impacts in the area related to multiple proposed developments (where and as required).

6.6 Water

6.6.1 Existing environment

Climate observations obtained from the Bureau of Meteorology (BoM) weather station at Parramatta North (Masons Drive) (ID 066124) on 11 December 2024 demonstrated that the indicative development footprint is located within a temperate climate region, where it is a 'wet' (January to June) and 'dry' (July to December) season (BoM 2024). The BoM identified February as the month with the highest average rainfall (127.3 millimetres (mm)) and September with the lowest average rainfall (49.8 mm) at the station. The average annual rainfall is 787.7 mm (BoM 2024).

As shown in Figure 6-2, the indicative development footprint is located around 60 m south of the nearest watercourse, Toongabbie Creek (Strahler stream order 3), which is mapped as Key Fish Habitat (KFH) (Department of Primary Industries 2020). This creek is a tributary of the Parramatta River, located around 2.8 km to the southeast, and flows in an easterly direction. There are no nearby dams.

As shown in Figure 6-2, the property is located within the 1% AEP (City of Parramatta 2024b) and, as such, is situated in a flood planning area under the Department of Planning and Environment's Flood Risk Management Manual (Department of Planning and Environment 2023). However, the indicative development footprint is mapped low risk for flooding (SEED 2024). Low risk areas are defined as 'the area from the 1% AEP (1:100) up to the Probable Maximum Flood (PMF)' (City of Parramatta 2024b). The northern extent of the property (adjacent to Toongabbie Creek) and away from the indicative development footprint that is mapped as a medium and high-risk area (within the 1% AEP) for flooding (City of Parramatta, 2024b).

The data of several groundwater monitoring wells were analysed by JBS&G Australia in May 2023 to understand per- and polyfluoroalkyl substances (PFAS) contamination and groundwater characteristics of the Baulkham Hills property (JBS&G Australia 2023). It was found that the standing water level (SWL) identified from 8.5 to 10 m below ground surface. Given excavations would be up to 1.8 mbgl, groundwater interaction in the area is unlikely to occur.

6.6.2 Summary of potential environmental impacts

The Baulkham Hills BESS project would require a water supply during construction, operation and decommissioning which would likely be sourced from the City of Parramatta Council. During construction, water would primarily be used for the establishment of the BESS infrastructure (e.g. mixing of concrete for foundations) and dust suppression, as well as to water planted vegetation, if relevant. Water requirements during operation and decommissioning would include the need to water planted vegetation in the indicative development footprint (if relevant) and potentially for other maintenance activities.

As noted in Section 6.7.2, a fire water detention dam would be constructed for use in the event of a fire on site. Potential impacts to surface water quality may result from pollution of runoff with sediments or leaked fuels and discharge of water from site activities if not managed appropriately. Mitigation measures would be in place to avoid discharge of contaminated or polluted water from the indicative development footprint.

It is not anticipated that any groundwater extraction would be required for the Baulkham Hills BESS project. The groundwater level is assumed to be from 8.5 mbgl within the indicative development footprint, as such the interaction of the Baulkham Hills BESS project with groundwater is unlikely during excavation works and associated ancillary infrastructure installation.

The Baulkham Hills BESS project would not likely significantly increase surface water flows or alter the local flow regime in the local area. However, given the indicative development footprint is located within the PMF, a qualitative flood risk assessment will be undertaken as outlined below.

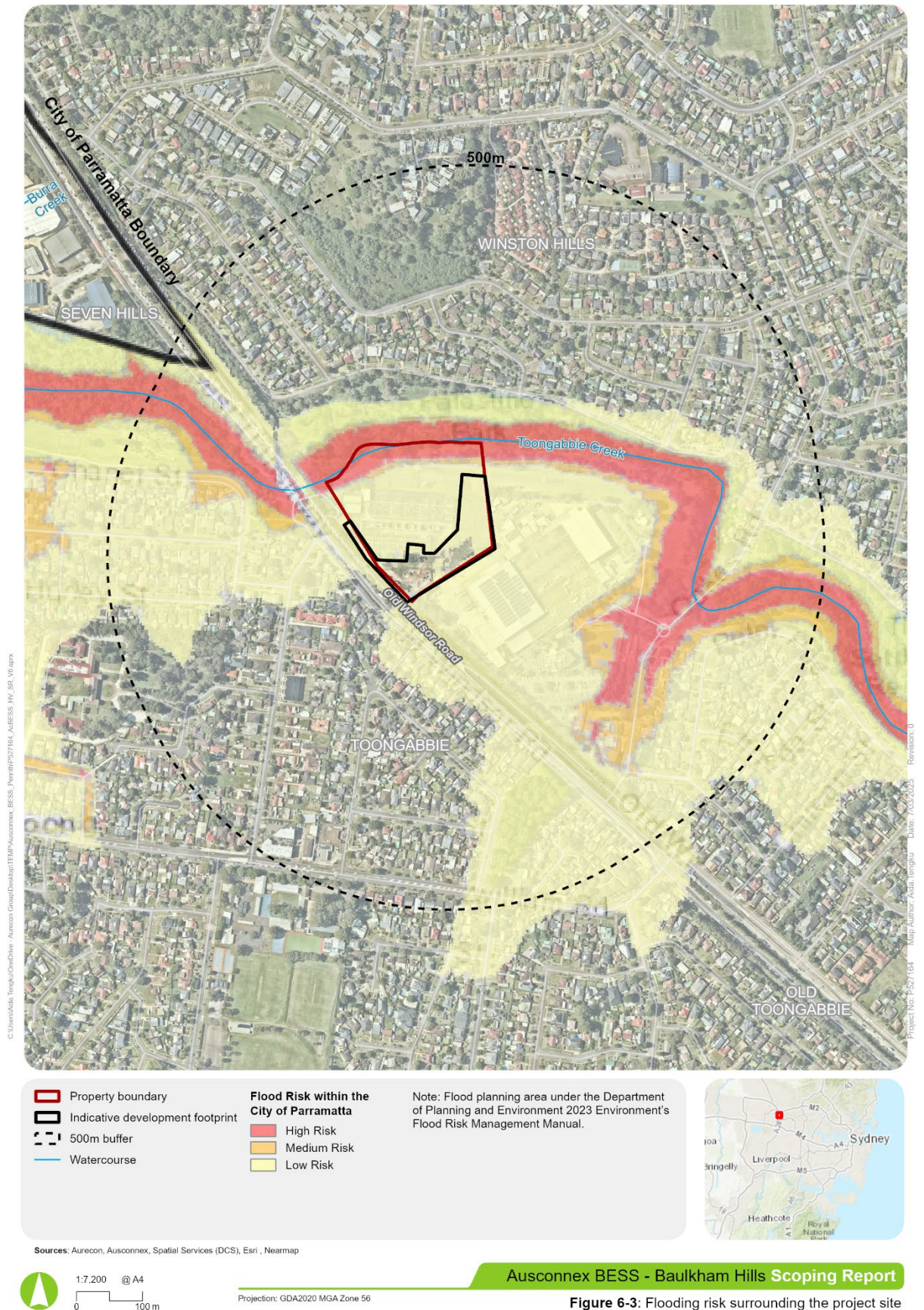


Figure 6-2 Flood Risk Surround the indicative development footprint

6.6.3 Assessment approach

Potential impacts to water quality, potential increased demand for water, site drainage and discharge of any wastewater will require further assessment. Following these assessments, the preparation and implementation of an Erosion and Sediment Control Plan during construction in reference to Managing Urban Stormwater: Soils and Construction – Volume 1 (Landcom, 2004), would be recommended.

Given the nature of the potentially hazardous development on land within the PMF, a qualitative flood risk assessment will be undertaken to assess the Baulkham Hills BESS project against the Floodplain Matrix Planning and Development Controls within the City of Parramatta Council Development Control Plan (DCP) (City of Parramatta, 2023) and the principles within the NSW Flood Risk Management Manual (DPE, 2023). No flood modelling is required as the project is outside of the 1% AEP. Potential control measures would consider risk to life and other safety considerations associated with the potential hazardous development to the community and the environment in the event of a flood.

The EIS will include an assessment of potential surface water and hydrology impacts and flooding risk associated with the construction, operation and decommissioning of the Baulkham Hills BESS project. The assessment will also outline mitigation measures proposed to avoid or minimise potential impacts to water resources.

6.7 Standard assessments

6.7.1 Social and economic

6.7.1.1 Existing environment

The Baulkham Hills BESS project is located in the Parramatta LGA which has a population of 256,729 as at the 2021 census, with a median age of 35 years (ABS, 2021). The 2021 census data records the main employment industries within the LGA as computer system design and related services, hospitals (except psychiatric hospitals), banking, supermarket and grocery stores, and other social assistance services. The most common occupations noted for the Parramatta LGA in the 2021 census are professionals, clerical and administrative workers, managers, technicians and trade workers, community and personal service workers, sales workers, labourers and machinery operators and drivers.

As discussed in Section 2.3.1, the indicative development footprint is located approximately 6 km from Parramatta CBD and is highly urban in character. The indicative development footprint is surrounded by areas used mainly for recreational, industrial and residential purposes (refer to Figure 3-1). The closest residential building is approximately 50m southwest of the indicative development footprint.

6.7.1.2 Social locality

The social locality for the Baulkham Hills BESS project is developed from an analysis of the likely positive and negative impacts and the communities that could be affected by the battery project. The preliminary social locality is shown in Figure 6- and includes the following geographic areas:

- the City of Parramatta LGA;
- the suburb of Old Toongabbie where the Baulkham Hills BESS project is located;
- portions of the adjacent suburbs of Winston Hills, Toongabbie and Seven Hills in proximity of the indicative development footprint; and
- the local road network including the classified state road of Old Windsor Road to be used as part of the main transportation route from port to site during commissioning decommissioning of BESS infrastructure on the site.

The social locality may extend beyond these areas as the Baulkham Hills BESS project is further developed during the EIS phase and may include additional places of residence of future construction and operational workforce and their primary dependents, and where construction materials may be sourced for the Baulkham Hills BESS project.

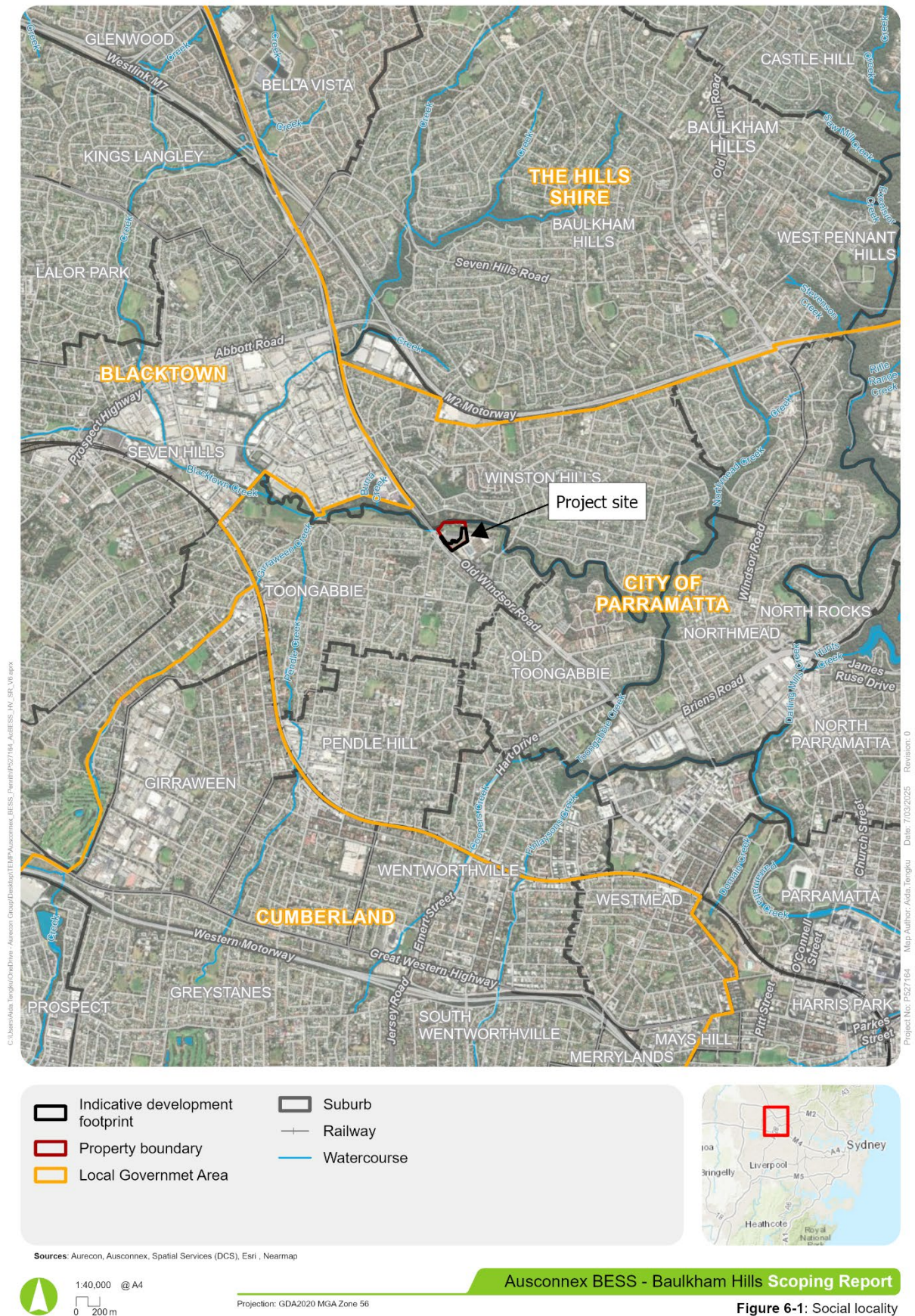


Figure 6-3: Social locality

6.7.1.3 Summary of potential environmental impacts

Potential social impacts

A SIA Scoping Worksheet has been developed for the Baulkham Hills BESS project in accordance with the Social Impact Assessment Guideline for State Significant Projects (DPE, 2023) to identify potential social and economic impacts and define the assessment approach for the EIS phase (refer to Appendix B).

Based on the social impact categories, the Baulkham Hills BESS project would potentially generate both positive and negative social and economic effects on local and regional communities, as outlined in Table 6-1.

Table 6-1: Preliminary scoping of potential social impacts

Category of impact	Potential impacts	Nature	Project phase
Livelihoods	Potential for local and regional business procurement, employment and training opportunities during construction. It is acknowledged that the proposal would generate temporary job opportunities during the 21 month construction period. Local businesses stand to benefit from construction workers spending money locally on food, clothing and materials in supply outlets located within the vicinity of the Baulkham Hills BESS project.	Positive	Construction
Way of life	Potential for changes to local amenity (e.g. noise, dust and visual changes) that would result from temporary construction activities. However, given that the closest residential receivers are 50 m from the indicative development footprint, the duration of construction is anticipated to be 21 months, and with the implementation of stringent noise controls and management measures, it is unlikely construction activities would result in detrimental impact on way of life.	Negative	Construction
Access	Potential temporary impacts from increased levels of traffic during construction would have a limited impact on traffic along local traffic routes.	Negative	Construction
	Improved access to a reliable local energy supply by renewable energy during peak periods due to increased capacity and a reduction in the risk of power disruptions and outages leading to local energy supply reliability. The project supports the wider NEM by accelerating the transition to renewable energy and potential for renewable energy to ensure access to a reliable grid in transition.	Positive	Operation
Culture	Nil anticipated.	Nil	
Surroundings	The Project may temporarily impact amenity of the locality. Construction activities will most likely impact environmental factors such as noise, vibration and traffic. These impacts would be further assessed within the EIS.	Negative	Construction
	Construction activities have the potential to result in disruptions to the immediate surroundings, with the most likely impacts noted as increased levels of noise, traffic, and dust. These impacts would be further assessed within the EIS.	Negative	Construction
Health and wellbeing	Adjacent and nearby residents and businesses may experience temporary impacts during construction related to, for example, increased traffic levels on	Negative	Construction

Category of impact	Potential impacts	Nature	Project phase
	particular traffic routes and increased ambient noise levels. These impacts would be further assessed within the EIS.		
	Perceived health impacts as a result of EMF during operation may be experienced by nearby residential receivers or adjoining property workers. EMF impacts would be further assessed within the EIS.	Negative	Operation
	Operational noise emissions from plant and equipment associated with the Baulkham Hills BESS project have the potential to cause an increase in community anxiety related to noise within homes or property boundaries, including concerns related to sleep disruption. A detailed assessment of the potential for increases in ambient noise and/or impacts on sensitive receivers from operating noise, and any appropriate mitigation measures, will form part of a detailed consideration of noise in the EIS.	Negative	Operation
Community	The Baulkham Hills BESS project has the potential to support the uptake of renewable energy in the NSW electricity grid. The Baulkham Hills BESS project would also help achieve the state's net zero targets in emissions by 2050 by contributing directly as new electricity grid infrastructure without additional emissions, which is regarded as a positive planning outcome. The preliminary investigation of the project also provides the local community with greater certainty and transparency on how renewable electricity grid infrastructure will be assessed and managed over their lifecycle.	Positive	Operation
Decision-making systems	A perceived lack of ability for community or stakeholders to make informed decisions, or an inability to access enquiry/complaint mechanisms, could lead to frustration and mistrust from some sensitive receivers.	Negative	Operation

Considering the Baulkham Hills BESS project's expected construction and operational requirements, the Baulkham Hills BESS project is unlikely to have a significant social impact on the surrounding community. Any impacts to way of life or perceived impacts to health and wellbeing as a consequence of amenity impacts (noise / vibration /dust / traffic / EMF) will be further assessed as part of the EIS.

Potential economic impacts

Some of the key potential economic opportunities identified to date include:

- the creation of local employment opportunities during the construction, operation and decommissioning phases;
- training opportunities during construction, which would upskill the construction workforce for infrastructure projects which are similar in nature;
- an increase in business opportunities through an increase in local business transactions/procurement, and use of services; and
- contribution to electricity supply from renewable resources and providing network stability.

Any perceived impacts to property value as a consequence of noise, hazards or visual impacts will be further considered in the EIS phase.

The Baulkham Hills BESS project has the capacity to generate and store renewable energy and play an important role in energy security while diversifying energy network supply between local resources and

renewable generation across the National Electricity Market. This in turn would reduce the cost to run the existing electricity network with a real potential to offer more cost-effective electricity options and enable long term economic and sustainability benefits to customers.

6.7.1.4 Assessment approach

Given the proximity of residential receivers along Old Winsor Road and Goliath Avenue to the Baulkham Hills BESS project, a social impact assessment in accordance with Social Impact Assessment Guidelines (DPE 2023) is required.

The social and economic impact assessment as part of the subsequent EIS will involve stakeholder and community consultation, and document the outcomes of the consultation, implementation of the Community and Stakeholder and Engagement Plan (CSEP) (Appendix E), and the findings of database searches and literature reviews where relevant. The assessment will include:

- further validation of the social locality, identification of affected communities and vulnerable groups, and preparation of a social baseline for the social locality;
- collection of primary research data with stakeholders to understand perceptions of impacts;
- review of outcomes of consultation undertaken for the Baulkham Hills BESS project;
- assessment of potential impacts (both positive and negative) on local communities associated with the construction and operation of the Baulkham Hills BESS project, including consideration of any increase in demand for accommodation and community infrastructure services;
- assessment of the economic impacts or benefits of the project for the region and the State as a whole;
- assessment of potential cumulative impacts on local communities due to the combined effects of similar actions by multiple projects;
- evaluation of the level of significance of identified impacts; and
- identification of measures to manage potential social and economic impacts and maximise benefits.

6.7.2 Soils and contamination

6.7.2.1 Existing environment

The indicative development footprint is mapped under the Australian Soil Classification map on eSpade (NSW Government 2024) as Kurosols. Kurosols typically have a high to intermediate siliceous composition with poor water-holding capacity (Agriculture Victoria 2020). The indicative development footprint is not mapped as identified acid sulfate soils (SEED 2024). The indicative development footprint is mapped as an area with very low salinity potential (SEED 2024).

A search of the NSW EPA Contaminated Land Register on 14 November 2024 identified that the property is listed under the CLM Act list of Notified Sites (NSW EPA 2024). The status of the site is 'Under Assessment'. Further, Section 10.7 Planning Certificate for the indicative development footprint states the land is potentially affected by contamination as indicated by Council's current information and records.

Historical fire suppression methods by the Fire and Rescue NSW following an oil fire on site in 2006 have led to the potential for PFAS contamination of the property. An assessment of PFAS and groundwater conducted by JBS&G Australia (2023) found that PFAS was detected below adopted site criteria within soil samples south of Toongabbie Creek, with the highest concentrations reported in surface to near-surface soils at locations closer to and downslope of the westernmost substation stormwater discharge point (JBS&G Australia 2023). PFAS results in groundwater and surface water were found to be consistent with previous monitoring rounds, returned minor detections, or were below the limit of reporting results (JBS&G Australia 2023).

This demonstrates the high likelihood of contamination being present within soil at the indicative development footprint however further investigation is required to identify if this is exceeding the commercial/industrial sites criteria. Further contamination assessment is recommended prior to construction. No other notified or regulated contaminated site were identified in close proximity to the site.

6.7.2.2 Summary of potential environmental impacts

As discussed in Section 3.2, shallow excavation (trenching of between 600 mm and 1 mbgl would be required for installation of new cabling through new and existing conduits within the indicative development footprint and to the grid connection point. In addition, excavation for the would be required up to 1.8 mbgl for the detention dam and drainage pipeline.

Potential impacts to soils during construction and decommissioning of the Baulkham Hills BESS project could include soil erosion and sediment transfer, as well as physical change to soil quality locally.

Potential for encountering contaminated soils is high and would be required to be managed through a contaminated waste management process during construction of the Baulkham Hills BESS project.

Potential contamination impacts during construction, operation and decommissioning of the Baulkham Hills BESS project could result from accidental leaks or spills of fuels, chemicals or wastewater, and mobilisation of pre-existing contaminants. The 'closed nature' of the BESS infrastructure means there is limited risk or possibility for the Baulkham Hills BESS project to contribute to future land contamination.

Provision has been made in the Baulkham Hills BESS project layout for a fire water detention dam, which will also serve to control and filter run-off from the indicative development footprint.

6.7.2.3 Assessment approach

A preliminary environmental investigation (at a minimum) will be undertaken for the indicative development footprint to determine salinity risk and level of existing contamination present within the indicative development footprint prior to construction. This investigation would be prepared in accordance with Contaminated Land Guidelines: Consultants Reporting on Contaminated Land (EPA 2020), and the National Environment Protection Measure (Assessment of Site Contamination) (NEPC 2013), where relevant.

The outcomes of the preliminary environmental investigation will inform potential contamination risks, and will determine if an intrusive detailed site investigation to confirm the nature of contamination present within the indicative development footprint is required and identify any necessary remediation to ensure the site is suitable for its intended use (electricity generating works).

An assessment of contamination waste generated during the construction of the Baulkham Hills BESS project is recommended in accordance with the relevant regulatory framework for waste management, such as the WARR Act and Waste Classification Guidelines (EPA 2019).

6.7.3 Waste

6.7.3.1 Summary of potential environmental impacts

The Baulkham Hills BESS project would produce several waste streams during construction and decommissioning. Minor quantities of waste would also be generated during operation of the Baulkham Hills BESS project. The waste expected to be generated during project construction includes:

- excavated material and soils (potentially contaminated);
- general construction waste, including concrete, scrap metal, plasterboard, cable and packaging materials;
- adhesives, lubricants, waste fuel and oil, engine coolant, batteries, hoses and tyres from the maintenance of construction plant, vehicles and equipment;

- perishables, paper, cardboard, plastics and glass from activities at construction compounds and site office(s);
- sediment laden and/or potentially contaminated wastewater, sewage and greywater from dust suppression, washdown activities and staff amenities; and
- green waste from vegetation clearance and grubbing.

A waste management plan for waste material (including excavation of construction materials), storage, disposal and recycling would be investigated as part of the design development of the Baulkham Hills BESS project.

End of life (decommissioning of equipment, including damage) recycling and reuse opportunities of the batteries will also be investigated and detailed in the waste management plan protocol prior to construction of the Baulkham Hills BESS project to safeguard from environmental incidents.

6.7.3.2 Assessment approach

The EIS will include a waste and resource assessment to identify and classify potential waste streams. The assessment will develop strategies for waste reduction, management of contaminated waste and recommend mitigation measures in accordance with the Waste Avoidance and Resource Recovery Strategy (NSW EPA, 2018). The assessment will also list waste management facilities near the Baulkham Hills BESS project to be used during project construction, operation and decommissioning.

6.7.4 Cumulative impacts

As discussed in Section 2.3.8, the Baulkham Hills BESS project may result in cumulative impacts in conjunction with surrounding projects during both construction and operation. These impacts would generally be limited to increases in traffic, ambient noise levels, hazards and risks, and residential amenity impacts.

6.7.4.1 Assessment approach

Proposed, approved, under construction and operational infrastructure developments within the vicinity of the Baulkham Hills BESS project would be considered in the EIS, in accordance with the Cumulative Impact Assessment Guidelines for Significant Projects (DPHI, 2022).

The different levels of cumulative impact assessment are either detailed, standard or not applicable and the cumulative scoping summary is provided in Table 6-2.

As discussed in Section 2.3, projects considered for inclusion as part of the cumulative impact assessment include State significant applications as listed on the Major Projects Portal (both State significant infrastructure (SSI) and SSD)), the NSW Government Planning Portal Application Tracker, the City of Parramatta DA Tracker and projects being assessed under Part 5, Division 5.1 of the EP&A Act (where known). The projects initially identified have been screened based on:

- spatial relevance (as outlined below within about 2km);
- temporal relevance (construction or operational overlaps);
- their scale (predominately other major projects); and
- whether there is sufficient publicly available information at the time of preparing this scoping report to assist with identifying likely cumulative impacts.

Over 120 major projects, at various stages of approval, were identified within the Parramatta LGA. In order to refine the search, to better reflect on cumulative impacts including on amenity, access and transport, environmental issues and social and economic impacts, the following was taken into account:

- During construction and decommissioning, potential cumulative impacts would be largely related to impacts for road users and the road network as a result of projects utilising the same heavy vehicle

haulage routes along local and State road networks, in particular Old Windsor Road, Old Toongabbie. The Baulkham Hills BESS project is not anticipated to be a large generator or construction traffic (as outlined in Section 6.2).

- During operation, potential cumulative impacts would relate primarily to increased ambient noise levels in the direct vicinity of the Baulkham Hills BESS project (as outlined within Section 6.1). The Baulkham Hills BESS project would be assessed for compliance against the provisions of the NSW Noise Policy for Industry (2017) which would minimise cumulative noise impacts to the surrounding sensitive receivers.

Based on the anticipated potential for cumulative impacts, a 2km radius around the Baulkham Hills BESS project was identified to assess other relevant projects within close proximity to the Baulkham Hills BESS site which may overlap with construction and operational impacts. To confirm this 2km radius accurately encompasses the cumulative impacts of the Baulkham Hills BESS project and surrounding projects, the cumulative impact assessment radius will be confirmed during the EIS once the technical assessments for the Baulkham Hills BESS project have been undertaken.

Projects that have been identified to date for inclusion in the cumulative impact assessment are shown in Figure 6-4. Given the location of the Baulkham Hills BESS project, as well as the nature and scale of potential impacts and the sensitivity of the receiving environment; the Baulkham Hills BESS project is not anticipated to result in significant cumulative impacts within the local community

During the EIS phase, an updated search of the NSW planning website, and local council consultation would be undertaken in order to identify any projects which have the potential to result in cumulative impacts. Relevant projects, and their key issues, would then be considered when concurrent with the Baulkham Hills BESS projects. Cumulative impacts including amenity, access and transport, environmental issues and social and economic impacts for these projects will be clearly presented in a table format within the EIS.

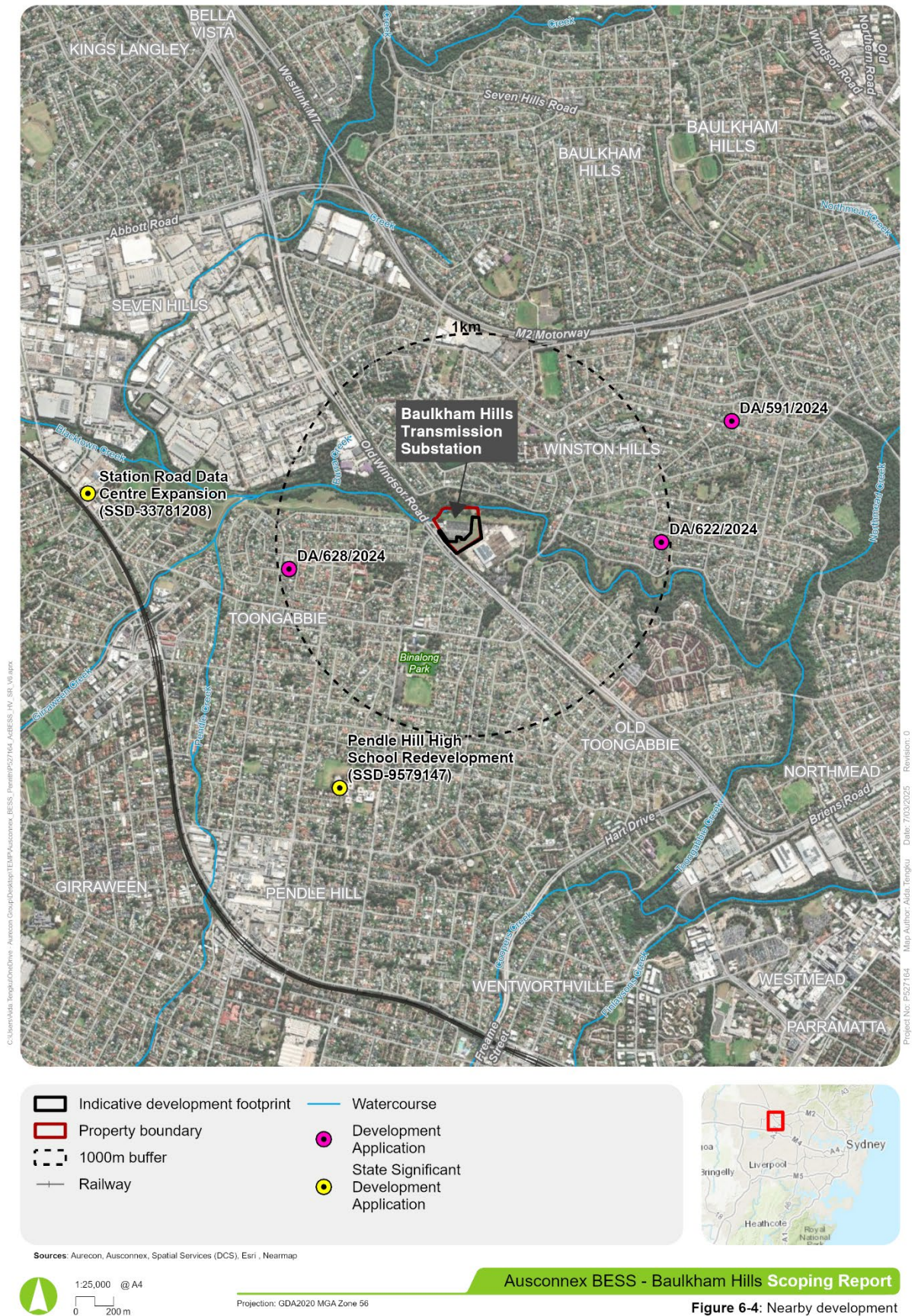


Figure 6-4: Nearby development

Figure 6-4: Nearby development

Table 6-2: Preliminary cumulative impact assessment scoping summary table

Nearby development (future projects)	Approximate distance to project at closest point and key features	Project status/ indicative timing/ overlap	Potential overlap between impact of project with nearby development			
			Relevant assessment matters			
			Traffic (incl. access)	Amenity (noise)	Hazards and risks (EMF)	Social/ economic
Pendle Hill High School Redevelopment (SSD-9579147)	1.5km south-west of the indicative development footprint. Key features: - construction of a new three-storey courtyard building on Binalong Road which will accommodate a library, staff unit, lecture, multimedia and senior learning, administration unit and student amenities; - external transport infrastructure upgrade; - site remediation works; - reconfiguration of existing at-grade carpark; and - new hardstand areas for bicycle parking.	- SSD-9579147 – Approved (24 August 2021) - SSD-9579147-Mod-1 – Approved (23 December 2022) - Potential for construction overlap	Standard assessment	N/A	N/A	Standard assessment
Station Road Data Centre Expansion (SSD-33781208)	2.1km west of the indicative development footprint. Key features: - construction of a new two-storey 19.2MW data centre including ancillary office space; - provision of external plant, screened rooftop plant and 9 backup diesel generators and associated fuel storage; - internal road network and parking; - end of trip facilities; and - perimeter deep soil planting and landscaping.	- SSD-33781208 – Approved (16 December 2022) - Potential for construction overlap	Standard assessment	N/A	N/A	Standard assessment
DA/628/2024	1km west of the indicative development footprint. Key features:	- Notification/Advertising - Potential for construction overlap	Standard assessment	N/A	N/A	Standard assessment

Nearby development (future projects)	Approximate distance to project at closest point and key features	Project status/ indicative timing/ overlap	Potential overlap between impact of project with nearby development			
			Relevant assessment matters			
			Traffic (incl. access)	Amenity (noise)	Hazards and risks (EMF)	Social/ economic
	Demolition of all existing structures and Torrens title subdivision of one lot into eight lots.					
DA/591/2024	1.48km north-east of the indicative development footprint. Key features: Construction of a two storey dwelling and associated retaining walls	- Notification/Advertising - Potential for construction overlap	Standard assessment	N/A	N/A	Standard assessment
DA/622/2024	980m east of the indicative development footprint. Key features: Construction of a two storey dwelling	- Notification/Advertising - Potential for construction overlap	Standard assessment	N/A	N/A	Standard assessment

Notes:

- **Project** means the proposed project for which approval is sought by the applicant.
- **Future projects** are projects that may cause cumulative impacts with a project because they impact on the same matters, in the same area over similar timeframes and meet the criteria of a relevant future project in terms of Section 3.4 of the cumulative impact assessment guidelines.
- **Potential overlap of impacts** means the project and one or more future projects have the potential for impacts on the same matters, in the same area over similar timeframes.

6.8 No further assessment proposed

6.8.1 Biodiversity

6.8.1.1 Existing environment

As outlined in Section 6, the Baulkham Hills BESS project's impact on biodiversity has been assessed unlikely to have any significant impact on biodiversity values. As such, an application for a BDAR waiver has been submitted to DCCEEW, Biodiversity, Conservation and Science (BCS) (refer to Appendix C).

A desktop review of relevant biodiversity resources was carried out on 15 October 2024, 1 and 12 November 2024 to determine the existing biodiversity environment. A field assessment was undertaken on 3 October 2024 by two suitably qualified Aurecon environmental consultants. Field assessment identified all vegetation and potential fauna habitat features within the indicative development footprint, including inspection of human-made structures, native and exotic vegetation, searches for hollow bearing trees, rocks, waterways and aquatic habitat. The field survey included opportunistic observations of fauna (both threatened and non-threatened).

The results of the database assessment and field assessment confirmed the existing environment and biodiversity values that are present within the indicative development footprint, as described below.

Vegetation

Two native vegetation communities, Cumberland Shale Plains Woodland (PCT ID 3320) and Cumberland Red Gum Riverflat Forest (PCT 4025) are mapped north of the indicative development footprint (refer to Figure 6-3). The field assessment confirmed that these PCTs do not extend to within the indicative development footprint boundary and that vegetation within the indicative development footprint does not constitute a native PCT.

The indicative development footprint comprises groundcover of mown and managed native and exotic grasses and weed species and planted native and exotic midstory and canopy vegetation. Planted vegetation occurs in two areas:

- on the southern boundary of the existing Baulkham Hills Substation, established circa 1979; and
- on the south-eastern boundary of the property, established post-1990.

Fauna habitat features

A review of BioNET data (SEED 2024) identified Eastern Blue-tongued Lizard (*Tiliqua scincoides*) as having been recorded on the property. This species is not listed as threatened under the BC Act or EPBC Act. No threatened species were identified.

Two bird nests were identified within the indicative development footprint:

- one common Masked Lapwing (*Vanellus miles*) nest within managed native and exotic grass, to be removed; and
- one Bronzewing nest within Japanese Photinia (*Photinia glabra*), to be retained.

Field assessment confirmed that vegetation and human-made structures within the indicative development footprint do not constitute suitable foraging, roosting, or nesting habitat.

Waterways and aquatic habitat

Field assessment confirmed that the indicative development footprint does not contain waterways or aquatic habitat.

The nearest substantial aquatic and riparian habitat is associated with Toongabbie Creek, located 90 m north of the indicative development footprint. Toongabbie Creek contains Key Fish Habitat (KFH) (State Government of NSW and DPI and Regional Development, 2024), and is associated with NSW Biodiversity Values 'Threatened species or communities with potential for serious and irreversible impacts' (State Government of NSW and NSW DCCEEW, 2024a).

Threatened flora and fauna, and Threatened Ecological Communities

Field assessment confirmed that no Threatened Ecological Communities (TECs) or threatened flora species occur within the indicative development footprint. Field assessment further confirmed that vegetation and human-made structures within the indicative development footprint do not constitute suitable foraging, roosting, or nesting fauna habitat for threatened or native species. As a result, no threatened flora or fauna species were considered moderately or highly likely or known to occur within the indicative development footprint.

6.8.1.2 Summary of potential environmental impacts

The Baulkham Hills BESS project is located on land that has been modified through previous historical disturbance, including complete clearing prior to 1978, and majority clearing prior to 1991. The site contains two rows of planted native and exotic midstory and canopy vegetation, and groundcover of mown and managed native and exotic grasses and weed species. The potential for biodiversity habitat or impacts to biodiversity habitat is low.

Potential biodiversity impacts during construction of the Baulkham Hills BESS project would be associated with the removal of approximately 0.4ha of mown and managed native and non-native grasses and weed species, one Japanese photinia (non-native and with no habitat features), and 41 planted native endemic, non-endemic, and exotic trees on the eastern boundary of the indicative development footprint.

Potential indirect impacts on fauna associated with light, noise and vibration disturbance are not anticipated to be significant.

Based on the available information it is considered unlikely that the Baulkham Hills BESS project would result in a significant impact to any Matter of National Environmental Significance, therefore a Referral to the Commonwealth Department of Climate Change, Energy, the Environment and Water is unlikely to be required as a result of anticipated impacts.

6.8.1.3 Assessment approach

As there will be no significant impacts to biodiversity values, a BDAR waiver is being sought in accordance with the BC Act. The BDAR waiver request, which details the relevant biodiversity values within and adjacent to the indicative development footprint and the likelihood and extent of any potential impacts, has been prepared for assessment by BCS. A copy of the BDAR waiver request is attached as Appendix C.

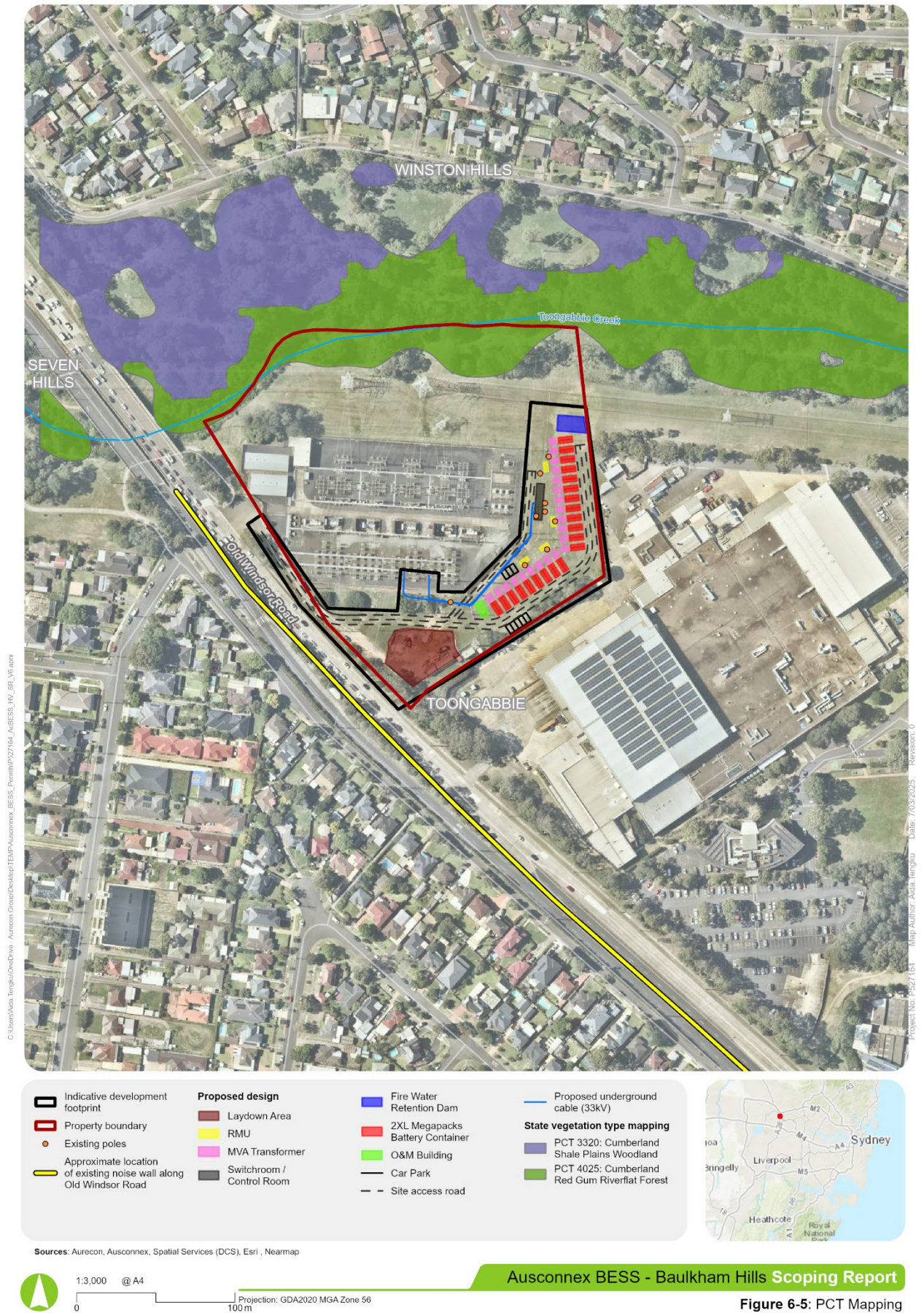


Figure 6-5: PCT mapping

Figure 6-5: PCT Mapping

6.8.2 Aboriginal heritage

A search of the AHIMS database on 14 November 2024 (NSW Government 2024) with a 200m buffer around the indicative development footprint returned no results for Aboriginal sites or places.

A search of the Register of Native Title Claims (NNTT 2024) on 14 November 2024 did not identify any native title claims pursuant to the NT Act within or in proximity to the indicative development footprint.

Based on a review of historical reports, council records, aerial photographs, and other publicly available information, the site was used for agricultural/grazing purposes from the beginning of available records until 1962. Since 1978 the property has included an electrical substation although the indicative development footprint itself does not appear to have been widely occupied by structures. Seven electrical poles connecting to the substation are currently located within the indicative development footprint.

The Parramatta Development Control Plan has identified the project area as having low sensitivity for Aboriginal Heritage, with limited potential to contain items of Aboriginal Heritage (City of Parramatta Council, 2023). As previous disturbance has been observed across the entirety of the Baulkham Hills BESS indicative development footprint, used as agricultural land until 1962 and then as a site for electrical infrastructure from 1978, the likelihood of encountering unknown Aboriginal heritage features is considered very unlikely.

Due to the nature of the indicative development footprint and HV BESS infrastructure and construction works, the Baulkham Hills BESS project is not anticipated to impact on Aboriginal sites or places.

The Baulkham Hills BESS project would be subject to an unexpected finds protocol in the event that an unknown or potential Aboriginal object/s, including skeletal remains, is found during construction.

As such, no further assessment of Aboriginal heritage is proposed.

6.8.3 Air quality

The indicative development footprint is within an urban area with industrial, transport, recreational and residential land uses in the local context. The local air quality environment would be influenced by surrounding industrial activity and road traffic. Existing sources of air emissions would be mainly vehicle or machinery exhaust.

During construction and decommissioning, local air quality within the indicative development footprint and surrounds may be temporarily affected by particulate (dust) emissions during activities such as vegetation clearance, earthworks, access track construction, and traffic movement along roads/tracks. There is also the potential for localised gaseous emissions generated by the combustion of fuel in construction plant, machinery and emissions.

Air quality impacts from construction are expected to be minor and short term due to the relatively small scale of construction works required and the distance from sensitive receivers. If required, dust suppression measures may be implemented during construction to reduce potential nuisances to surrounding properties and ensure air quality impacts from construction remain within acceptable limits for all workers on the indicative development footprint.

Standard dust suppression techniques would form part of the construction phase protocol outlined in the CEMP. During operation, the Baulkham Hills BESS project is anticipated to have a negligible impact on local air quality.

The Baulkham Hills BESS project would not generate significant air quality impacts during construction, operation or decommissioning and emissions impacts are expected to be localised. As such, no further assessment of air quality is proposed within the EIS.

6.8.4 Land use and property

Land zones and land uses surrounding the indicative development footprint are illustrated in Figure 2-1.

The indicative development footprint is located on land zoned E4 – General Industrial according to the Parramatta LEP. The objectives of the E4 – General Industrial zone are:

- to provide for a range of industrial, warehouse, logistics and related uses;
- to ensure the efficient and viable use of land for industrial uses;
- to minimise any adverse effect of industry on other land uses;
- to encourage employment opportunities;
- to enable limited non-industrial land uses that provide facilities and services to meet the needs of businesses and workers; and
- to minimise adverse effects on the natural environment.

A minor area where existing site access sits within land zoned SP2 Infrastructure, however this area is subject to an existing easement for access to the Baulkham Hills Transmission Substation site. Works in this area include sealing this site access road to allow for heavy vehicles access to the indicative development footprint.

The Baulkham Hills BESS project is considered compatible and consistent with the E4 – General Industrial zoning and would not impact surrounding land uses including the public domain, public infrastructure or other built assets.

Surrounding land uses include RE1 - Public Recreation to the north, E4 – General Industrial to the east which includes large shed-style buildings and hardstand areas, and R2 Low Density Residential and R3 Medium Density Residential to the south and west.

No private property, Crown lands or agricultural lands would be directly impacted by the Baulkham Hills BESS project. Once operational, the Baulkham Hills BESS project would be in keeping with the aims of the Parramatta LEP 2023.

As the Baulkham Hills BESS project is located entirely on Endeavor Energy owned land and is consistent with the zoning of the indicative development footprint. As such, no impacts are expected on land use and property matters.

No further assessment is proposed within the EIS for land use and property.

7 Conclusion

Ausconnex plans to deliver large grid scale BESS, on existing substation land, across five LGAs of Greater Sydney in NSW. This undertaking has been named 'Project Boost'. Project Boost will support the energy network by diversifying supply between local resources and renewable generation across the NEM. This is a strong commitment by Ausconnex to effectively reduce electricity demand on the existing network, working with local communities in seeking out long term sustainability outcomes through reduced emissions

Ausconnex is seeking approval under Division 4.7 of the EP&A Act as State significant development for the construction, operation and eventual decommissioning of a grid-scale battery project (Baulkham Hills BESS project) with a capacity of up to 100MW/200MWh, to be located adjacent to the Baulkham Hills Substation at 191Z Old Windsor Road, Old Toongabbie (Lot 1 DP 780050).

This Scoping Report, as prepared to support the Baulkham Hills BESS project, provides sufficient detail to understand the Baulkham Hills BESS project and identify its likely impacts. The EIS will consider cumulative impacts in more detail in addition to identifying appropriate mitigation and management to avoid and minimise impacts on the local amenity of the local community.

The key environmental issues identified for further assessment within the EIS for the Baulkham Hills BESS project include:

- amenity- noise and vibration;
- hazards and risks (including high pressure gas and fuel pipeline, EMF, fire and bushfire risk);
- historic (non-Aboriginal) heritage;
- visual amenity;
- traffic, transport and access;
- water quality and flooding.
- social and economic;
- soils and contamination; and
- waste.

The final EIS assessment approach will be further informed by the project-specific SEARs and the requirements of the relevant agencies and project stakeholders through the community engagement process.

The EIS will be prepared in accordance with the State significant development guidelines – preparing an environmental impact statement (DPHI 2022c) and will include the following in accordance with Part 8, Division 5 the EP&A Regulations:

- a detailed description of the Baulkham Hills BESS project including its components, construction activities and potential staging;
- a comprehensive assessment of the potential impacts on the key issues including a description of the existing environment, assessment of potential direct and indirect and construction, operation and decommissioning impacts;
- description of measures to be implemented to avoid, minimise, manage, mitigate, offset and/or monitor the potential impacts; and
- identify and address issues raised by stakeholders.

8 References

- AEMO (2022) *2022 Integrated System Plan for the National Electricity Market*. Available at: <https://aemo.com.au/en/energy-systems/majorpublications/integrated-system-plan-is>.
- Agriculture Victoria (2020) *Kursols, Victorian Resources Online*. Available at: https://vro.agriculture.vic.gov.au/dpi/vro/gbbreg.nsf/pages/soil_soil_gbb_kurosols [Accessed 30 September 2024].
- Australian Bureau of Statistics (2021). *Census data*. Available at: <https://www.abs.gov.au/census/find-censusdata/search-by-area> [Accessed 11 Dec 2023].
- Austrroads (2017). *Guide to Traffic Management Part 3: Transport Studies and Analysis Methods*. Available at: <https://austrroads.gov.au/publications/traffic-management/agtm03>
- Bureau of Meteorology (2024) *Climate statistics for Australian locations*. Available at: http://www.bom.gov.au/climate/averages/tables/cw_067113_All.shtml [Accessed 11 December 2024].
- City of Parramatta (2020) *Local Strategic Planning Statement City Plan 2036*. Available at: [https://www.cityofparramatta.nsw.gov.au/lsp#:~:text=Local%20Strategic%20Planning%20Statement%20City%20Plan%202036,-\(Back%20to%20top&text=It%20balances%20the%20need%20for,and%20liveability%20of%20the%20City](https://www.cityofparramatta.nsw.gov.au/lsp#:~:text=Local%20Strategic%20Planning%20Statement%20City%20Plan%202036,-(Back%20to%20top&text=It%20balances%20the%20need%20for,and%20liveability%20of%20the%20City)
- City of Parramatta (2022) *Community Strategic Plan*. Available at: <https://www.cityofparramatta.nsw.gov.au/council/key-council-documents/community-strategic-plan>
- City of Parramatta (2023). *Parramatta Development Control Plan*.
- City of Parramatta (2024) *Development application information + DA Tracker*. Available at: <https://www.cityofparramatta.nsw.gov.au/development/development-application-information-da-tracker> [Accessed 2 December 2024]
- City of Parramatta (2024b). *Know Your Flood Risk*. Available at: <https://www.cityofparramatta.nsw.gov.au/environment/floodsmart-parramatta/know-your-flood-risk> [Accessed 11 December 2024]
- JBS&G Australia (2023) 'Baulkham Hills Transmission Substation PFAS Investigation'.
- Greater Sydney Commission (2018) *Greater Sydney Regional Plan: A Metropolis of Three Cities – connecting people*. Available at: <https://www.planning.nsw.gov.au/sites/default/files/2024-04/greater-sydney-region-plan.pdf>.
- International Commission on Non-Ionizing Radiation Protection (2010) *Guidelines for limiting exposure to Time-varying Electric, Magnetic and Electromagnetic Fields*.
- Landcom (2004) *Managing Urban Stormwater: Soils and construction - Volume 1. Parramatta: Landcom*.
- National Native Title Tribunal (2014). *Register of Native Title Claims*. Available at: <https://www.nntt.gov.au/searchRegApps/NativeTitleRegisters/Pages/Search-Register-of-Native-Title-Claims.aspx>. [Accessed 14 November 2024].
- National Environment Protection Council (2013) *National Environment Protection (Assessment of Site Contamination) Measure*. Available at: <https://www.legislation.gov.au/F2008B00713/latest/text>.
- National Heavy Vehicle Regulator (2023). *National Network Map*. Available at: https://maps.nhvr.gov.au/?networkLayerContext=NATIONAL_MAP&view=Category&exemptionSetId=-2&networkIds=%5B2157%5D.

NSW Department of Environment and Heritage (2023). *Environment's Flood Risk Management Manual*. Available at: <https://www.environment.nsw.gov.au/research-and-publications/publications-search/flood-risk-management-manual>

NSW Department of Environment and Heritage (2024). Aboriginal Heritage Information Management System (AHIMS) Web Services. Available at: <https://www.environment.nsw.gov.au/awssapp/Login.aspx?ReturnUrl=%2fawssapp> [Accessed 14 November 2024].

NSW Department of Environment, Climate Change and Water (2011) *NSW Road Noise Policy*. Available at: <https://www.epa.nsw.gov.au/-/media/epa/corporate-site/resources/noise/2011236nswroadnoisepolicy.pdf>

NSW Department of Environment and Climate Change (2009) *Interim Construction Noise Guideline*. Available at: <https://www.environment.nsw.gov.au/resources/noise/09265cng.pdf>.

NSW Department of Environment and Conservation (2006) *Assessing Vibration: a technical guideline*. Available at: <https://www.environment.nsw.gov.au/resources/noise/vibrationguide0643.pdf>.

NSW Department of Climate Change, Energy, the Environment and Water (2024). Australia's Commonwealth Heritage List. Available at: <https://www.dcceew.gov.au/parks-heritage/heritage/places/commonwealth-heritage-list> [Accessed 9 November 2024]

NSW Department of Planning (2011a) *Hazardous and Offensive Development Application Guidelines: Applying SEPP 33*. Available at: <https://www.planning.nsw.gov.au/sites/default/files/2023-03/hazardous-and-offensive-development-application-guidelines-applying-sepp-33.pdf>.

NSW Department of Planning (2011b) *Hazardous Industry Planning Advisory Paper No 6*. Available at: <https://www.planning.nsw.gov.au/sites/default/files/2023-03/hazardous-industry-planning-advisory-paper-no-6-hazard-analysis.pdf>

NSW Department of Planning, Housing and Infrastructure (2022) *Cumulative Impact Assessment Guidelines for Significant Projects*. Available at: <https://www.planning.nsw.gov.au/sites/default/files/2023-03/cumulative-impact-assessment-guidelines-for-ssp.pdf>.

NSW Department of Planning, Housing and Infrastructure (2022) *State significant development guidelines – preparing an environmental impact statement: Appendix B to the state significant development guidelines*. Available at: <https://www.planning.nsw.gov.au/sites/default/files/2023-03/ssd-guidelines-preparing-an-environmental-impact-statement.pdf>.

NSW Department of Planning, Housing and Infrastructure (2022) *State significant development guidelines – preparing a scoping report: Appendix A to the state significant development guidelines*. Available at: <https://www.planning.nsw.gov.au/sites/default/files/2023-03/ssd-guidelines-preparing-a-scoping-report.pdf>.

NSW Department of Planning, Industry and Environment (2019) *NSW Electricity Strategy*. Available at: https://www.energy.nsw.gov.au/sites/default/files/2022-08/2019_11_NSW_ElectricityStrategyOverview.pdf.

NSW Department of Planning, Industry and Environment (2020) *NSW Electricity Infrastructure Roadmap: Building an Energy Superpower Overview*. Available at: https://www.energy.nsw.gov.au/sites/default/files/2022-08/NSW%20Electricity%20Infrastructure%20Roadmap%20-%20Overview_1.pdf.

NSW Department of Planning and Environment (2022) *Guidance for the Biodiversity Development Assessment Report Template*. Available at: <https://www.environment.nsw.gov.au/research-and-publications/publications-search/guidance-for-the-biodiversity-development-assessment-report-template>

NSW Department of Planning and Environment (2023) *Guidelines for preparing a statement of heritage impact*. Available at: <https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Heritage/guidelines-for-preparing-a-statement-of-heritage-impact-230201.pdf>.

NSW Department of Planning and Environment (2023) *Social Impact Assessment Guideline for State Significant Development Projects*. Available at: <https://www.planningportal.nsw.gov.au/sites/default/files/documents/2023/GD1944%20SIA%20Guideline%20NEW%20VI%2014%2002%2023.pdf>.

NSW Environment and Heritage (2024) *State Heritage Inventory*. Available at: <https://www2.environment.nsw.gov.au/topics/heritage/search-heritage-databases/state-heritage-inventory> [Accessed 9 November 2024].

NSW Environment Protection Authority (2018) *Waste Avoidance and Resource Recovery Strategy*. Available at: <https://www.epa.nsw.gov.au/your-environment/recycling-and-reuse/warr-strategy>.

NSW Environment Protection Authority (2019) *Waste Classification Guidelines – Part 1: Classification of waste*. Available at: <https://www.epa.nsw.gov.au/~/-/media/EPA/Corporate%20Site/resources/wasteregulation/140796-classify-waste.ashx>.

NSW Environment Protection Authority (2020) *Consultants reporting on contaminated land: Contaminated Land Guidelines*. Available at: <https://www.epa.nsw.gov.au/-/media/epa/corporate-site/resources/contaminated-land/20p2233-consultants-reporting-on-contaminated-land-guidelines.pdf?la=en&hash=EBB6758A2DE448534B6FDD5057D280523E423CC7>.

NSW Environment Protection Authority (2020) *Draft Construction Noise Guideline*. Available at: <https://hdp-au-prod-app-nswepa-yoursay-files.s3.ap-southeast-2.amazonaws.com/9416/0506/9710/DRAFT-construction-noise-guideline.pdf>.

NSW Environmental Protection Authority (2023) *Noise Policy for Industry (2017)*. Available at: [https://www.epa.nsw.gov.au/your-environment/noise/industrial-noise/noise-policy-for-industry-\(2017\)](https://www.epa.nsw.gov.au/your-environment/noise/industrial-noise/noise-policy-for-industry-(2017)).

NSW Environment Protection Authority (2024) *Contaminated Land Register*. Available at: <https://apps.epa.nsw.gov.au/prclmapp/searchregister.aspx> [Accessed 12 November 2024].

NSW Government (2024) *Major Projects Register*. Available at: <https://www.planningportal.nsw.gov.au/major-projects> [Accessed 11 December 2024]

NSW Government (2024). eSpade. Available at: <https://www.environment.nsw.gov.au/eSpade2Webapp/> [Accessed 30 September 2024].

NSW Government (2024). SEED. Available at: <https://www.seed.nsw.gov.au/> [Accessed 30 September 2024].

NSW Rural Fire Service (2019). *Planning for Bush Fire Protection 2019*. Available at: https://www.rfs.nsw.gov.au/_data/assets/pdf_file/0005/174272/Planning-for-Bush-Fire-Protection-2019.pdf

National Heavy Vehicle Regulator (2023) *NNSW OSOM Load Carrying Vehicles Network Map*. Available at: https://maps.nhvr.gov.au/?networkLayerContext=NATIONAL_MAP&view=Category&exemptionSetId=-2&networkIds=%5B2157%5D [Accessed 30 September 2024]

Transport for NSW (2002). *Guide to Traffic Generating Developments Version 2.2*. Available at: <https://www.transport.nsw.gov.au/system/files/media/documents/2022/guide-to-generating-traffic-developments.pdf>.

Transport for NSW (2019). *Routes and timetables*. Available at: <https://transportnsw.info/routes/bus>.

Appendices



Appendix A

Scoping summary table

Scoping Summary Table – Baulkham Hills BESS project

App A, Table 1: Scoping Summary Table

Level of assessment	Matter	Cumulative impact assessment	Engagement	Relevant government plans, policies and guidelines	Scoping report reference
Detailed	Amenity - Noise and vibration	Yes	Specific	- NSW Noise Policy for Industry (NSW EPA, 2017) - Assessing Vibration: A Technical Guideline (Department of Environment and Conservation, 2006) - German Standard DIN 4150-3: Structural Vibration – Effects of Vibration on Structures (German Institute for Standardisation, 1999) - NSW Road Noise Policy (DECCW, 2011) - Interim Construction Noise Guidelines (ICNG) (DECC, 2009)	Section 6.1
Detailed	Hazards and Risks	No	Specific	- Electromagnetic Fields Management Handbook (Energy Networks Australia, 2016) - Guidelines for limiting exposure to Time-varying Electric, Magnetic and Electromagnetic Fields (ICNIRP, 2010) - State Environmental Planning Policy No. 33 – Hazardous and Offensive Development and Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (Department of Planning, 2011a) - Assessment Guideline: Multi-Level Risk Assessment (Department of Planning and Infrastructure, 2011) - Hazardous Industry Planning Advisory Paper No. 6: Hazard Analysis (DPE, 2011) - Planning for Bush Fire Protection (NSW RFS, 2019)	Section 6.2
Detailed	Historic heritage	No	General	NSW Heritage Manual (NSW Heritage Office and Department of Urban Affairs and Planning, 1996)	Section 6.3
Detailed	Amenity - visual impacts	Yes	General	Guideline for landscape character and visual impact assessment (Transport for NSW, 2023)	Section 6.4
Detailed	Traffic and Transport	Yes	General	Guide to Traffic Management – Part 3 Traffic Studies and Analysis (Austroads, 2017)	Section 6.5
Detailed	Water	No	General	- Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom, 2004) and Volume 2 (Department of Environment and Climate Change, 2008) - Using the ANZECC Guidelines and Water Quality Objectives in NSW (Department of Environment and Conservation, 2006b).	Section 6.6

Level of assessment	Matter	Cumulative impact assessment	Engagement	Relevant government plans, policies and guidelines	Scoping report reference
				- NSW Flood Prone Land Policy and Flood Risk Management Manual (and associated guidelines) (DPE, 2023) - Australian Rainfall and Runoff Guideline (ARR, 2019).	
Standard	Social and economic	Yes	Specific	Social Impact Assessment Guidelines for State Significant Projects (DPIE, 2023)	Section 6.7.1
Standard	Soils and Contamination	No	General	- Managing Land Contamination: Planning Guidelines SEPP 55 – Remediation of Land (Department of Urban Affairs and Planning and Environment Protection Authority, 1998) - National Environment Protection (Assessment of Site Contamination) Measure (National Environment Protection Council, 2013) - Consultants reporting on contaminated Land: Contaminated land guidelines (NSW EPA, 2020) - Guidelines on the duty to Report Contamination under the <i>Contaminated Land Management Act 1997</i> (NSW EPA, 2015).	Section 6.7.2
Standard	Waste	Yes	General	- NSW Waste Avoidance and Resource Recovery Strategy 2014-21 (NSW EPA, 2014). - Waste Classification Guidelines Part 1: Classifying Waste (NSW EPA, 2014b)	Section 6.7.3
Standard	Cumulative	Yes	General	Cumulative Impact Assessment Guidelines for State Significant Projects (DPIE, 2022).	Section 6.7.4
BDAR waiver requested	Biodiversity	No	Nil	Refer to BDAR Waiver request (Appendix C)	Section 6.8.1
No further assessment in EIS	Aboriginal heritage	No	General	Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (Office of Environment and Heritage, Department of Premier and Cabinet, 2021)	Section 6.8.2
No further assessment in EIS	Air quality	No	General	National Environment Protection (Ambient Air Quality) Measure (National Environment Protection Council, 2021)	Section 6.8.3
No further assessment in EIS	Land use and property	Yes	General	N/A	Section 6.8.4

Appendix B

Social impact assessment (SIA) scoping worksheet

Social Impact Assessment (SIA) Worksheet				Ausconnex Baulkham Hills HV BESS						Date: November 2024						
CATEGORIES OF SOCIAL IMPACTS	POTENTIAL IMPACTS ON PEOPLE	PREVIOUS INVESTIGATION OF IMPACT		CUMULATIVE IMPACTS	ELEMENTS OF IMPACTS - Based on preliminary investigation					ASSESSMENT LEVEL FOR EACH IMPACT				PROJECT REFINEMENT	MITIGATION / ENHANCEMENT MEASURES	
What social impact categories could be affected by the project activities	What impacts are likely, and what concerns/aspirations have people expressed about the impact? Summarise how each relevant stakeholder group might experience the impact. Where there are multiple stakeholder groups affected differently by an impact, or more than one impact from the activity, please add an additional row.	Has this impact previously been investigated (on this or other projects)?		If "yes - this project -" briefly describe the previous investigation. If "yes - other project -" identify the other project and investigation	Will this impact combine with others from this project (think about when and where), and/or with impacts from other projects (cumulative)?	Will the project activity (without mitigation or enhancement) cause a material social impact in terms of its: You can also consider the various magnitudes of these characteristics					Level of assessment for each social impact	What methods and data sources will be used to investigate this impact?			Has the project been refined in response to preliminary impact evaluation or stakeholder feedback?	What mitigation / enhancement measures are being considered?
	Is the impact expected to be positive or negative				extent (i.e. number of people potentially affected)?	duration of expected impacts (i.e. construction vs operational phase)	intensity of expected impacts (i.e. scale or degree of change)?	sensitivity or vulnerability of people potentially affected?	level of concern/intensity of people potentially affected?	Secondary data		Primary Data - Consultation	Primary Data - Research			
access	Potential temporary impacts from increased levels of traffic during construction could impact limited available on-street parking and traffic along local traffic routes.	Negative	No			No	No	No	No	No	Detailed assessment of the impact	Required	Targeted consultation	Targeted research	No	Following consultation with Council and transport bodies, implement a traffic management plan to avoid impacts on surrounding business workers/visitors, residents, and existing bus operators in the area during construction hours Planned engagement with associated and non-associated residences and other stakeholders during construction so they are aware of construction schedules via engagement activities and project communication materials.
surroundings	The Project may temporarily impact amenity of the locality. Construction activities will most likely impact environmental factors such as noise, vibration and traffic. These impacts would be further assessed within the EIS.	Negative	Yes - this project			No	No	No	Unknown	No	Detailed assessment of the impact	Required	Broad consultation	Targeted research	No	An independent noise and vibration impact assessment will be conducted at the EIS stage to inform the SIA and identify appropriate mitigation measures. Implement a Construction Management Plan to reduce the impacts associated with noise and vibration. Engage with stakeholder on potential construction impacts.
livelihoods	Potential for local and regional business procurement, employment and training opportunities during construction. It is acknowledged that the proposal would generate temporary job opportunities during the 21 month construction period. Local businesses stand to benefit from construction workers spending money locally on food, clothing and materials in supply outlets located within the vicinity of the Baulkham Hills HV BESS project.	Positive	No			No	No	No	No	No	Detailed assessment of the impact	Required	Broad consultation	Targeted research	No	Nil - positive impact.
way of life	Potential for changes to local amenity (e.g. noise, dust and visual changes) that would result from temporary construction activities. However, given that the closest residential receivers are 50 m from the project site, the duration of construction is anticipated to be 21 months, and with the implementation of stringent noise controls and management measures, it is unlikely construction activities would result in detrimental impact on way of life.	Negative	No			No	No	No	No	No	Detailed assessment of the impact	Required	Broad consultation	Targeted research	No	Implement a Construction Environmental Management Plan to minimise the use and presence of construction machinery and associate impacts such as noise and dust. Implement a construction phase Communication and Engagement Plan (CSEP) to inform stakeholders and community members about the timing and likely impacts of the construction activities to enable nearby business' and residents' preparedness.
surroundings	Construction activities have the potential to result in disruptions to the immediate surroundings, with the most likely impacts noted as increased levels of noise, traffic, and dust.	Negative	No	No	No	No	No	No	No	No	Standard Assessment	Required	Broad consultation	Targeted research	No	Implement a Construction Environmental Management Plan to minimise the use and presence of construction machinery and associate impacts such as noise and dust. Implement a construction phase Communication and Engagement Plan (CSEP) to inform stakeholders and community members about the timing and likely impacts of the construction activities to enable nearby business' and residents' preparedness.
health and wellbeing	Adjacent and nearby residents and businesses may experience temporary impacts during construction related to, for example, increased traffic levels on particular traffic routes and increased ambient noise levels.	Negative	No	No	No	No	No	No	Unknown	No	Detailed assessment of the impact	Required	Broad consultation	Targeted research	No	A CEMP detailing construction phasing, including details on how construction impacts are proposed to be managed and mitigated will be prepared. The Baulkham Hills HV BESS project would comply with relevant guidelines and standards to manage and mitigate potential impacts from construction (ie traffic, noise and dust).
health and wellbeing	Adjacent and nearby residents and businesses may experience temporary impacts during construction related to, for example, increased traffic levels on particular traffic routes and increased ambient noise levels. These impacts would be further assessed within the EIS.	Negative	No	No	No	Unknown	Yes	Yes	Yes	Yes	Detailed assessment of the impact	Required	Broad consultation	Targeted research	No	Develop and implement a construction phase Communication and Engagement Plan (CSEP) to inform stakeholders and community members about the timing and likely impacts of the construction activities to enable community preparedness. Consider implementing the identified operational mitigation measures in the independent noise and vibration impact assessment, which will be conducted at the EIS stage.
surroundings	Construction activities have the potential to result in disruptions to the immediate surroundings, with the most likely impacts noted as increased levels of noise, traffic, and dust. These impacts would be further assessed within the EIS.	Negative	No	No	No	Unknown	Yes	Yes	Yes	Yes	Detailed assessment of the impact	Required	Broad consultation	Targeted research	No	Develop and implement a construction phase Communication and Engagement Plan (CSEP) to inform stakeholders and community members about the timing and likely impacts of the construction activities to enable community preparedness. Consider implementing the identified operational mitigation measures in the independent noise and vibration impact assessment, which will be conducted at the EIS stage.
access	Improved access to a reliable local energy supply by renewable energy during peak periods due to increased capacity and a reduction in the risk of power disruptions and outages leading to local energy supply reliability. The project supports the wider NEM by accelerating the transition to renewable energy and potential for renewable energy to ensure access to a reliable grid in transition.	Positive	No	No	No	Yes	Yes	No	Yes	Yes	Detailed assessment of the project	Required	Broad consultation	Required	No	Ensure accurate project updates and information on communication channels and engagement activity materials (eg project webpage, newsletter, project 1800 number) is implemented during the construction and operation stages.
decision-making systems	A perceived lack of ability for community or stakeholders to make informed decisions, or an inability to access enquiry/complaint mechanisms, could lead to frustration and mistrust from some sensitive receivers.	Negative	No	No	No	Unknown	Yes	Unknown	No	Unknown	Detailed assessment of the project	Required	Broad consultation	Required	No	Ausconnex has, to date, made a concerted effort to invite community feedback on the Baulkham Hills HV BESS project, as detailed in Chapter 5. Community feedback will continue to be sought throughout the assessment process. In addition, engagement channels for community and stakeholder feedback will continue to be available throughout construction and operation of the Baulkham Hills HV BESS project. Stakeholder engagement and consultation activities (eg community drop in sessions) to commence prior to the EIS stage and will continue throughout the Project development. Communication channels such as phone, email, project webpage for community information will be established to provide timely Project updates to the community and stakeholders. Consultation with community and agency stakeholders to continue throughout the Project development and EIS preparation stage. Maintain records of stakeholder consultation outcomes to demonstrate how Project planning and ongoing operation makes an effort to engage the community in the decision-making process.

CATEGORIES OF SOCIAL IMPACTS	POTENTIAL IMPACTS ON PEOPLE	PREVIOUS INVESTIGATION OF IMPACT		CUMULATIVE IMPACTS			ELEMENTS OF IMPACTS - Based on preliminary investigation					ASSESSMENT LEVEL FOR EACH IMPACT			PROJECT REFINEMENT	MITIGATION / ENHANCEMENT MEASURES	
What social impact categories could be affected by the project activities	What impacts are likely, and what concerns/aspirations have people expressed about the impact? Summarise how each relevant stakeholder group might experience the impact. NB: Where there are multiple stakeholder groups affected differently by an impact, or more than one impact from the activity, please add an additional row	Has this impact previously been investigated (on this or other projects)?	If "yes" - this project - briefly describe the previous investigation. If "yes" - other project - identify the other project and investigation	Will this impact combine with others from this project (think about when and where), and/or with impacts from other projects (cumulative)?	If yes, identify which other impacts and/or projects	Will the project activity (without mitigation or enhancement) cause a material social impact in terms of its: You can also consider the various magnitudes of these characteristics					Level of assessment for each social impact	What methods and data sources will be used to investigate this impact?			Has the project been refined in response to preliminary impact evaluation or stakeholder feedback?	What mitigation / enhancement measures are being considered?	
	Is the impact expected to be positive or negative					extent (i.e. number of people potentially affected)?	duration of expected impacts? (i.e. construction vs. operational phase)	intensity of expected impacts (i.e. scale or degree of change)?	sensitivity or vulnerability of people potentially affected?	level of concern/interest of people potentially affected?		Secondary data	Primary Data - Consultation	Primary Data - Research			
community	The Baulkham Hills HV BESS project has the potential to support the uptake of renewable energy in the NSW electricity grid. The Baulkham Hills HV BESS project would also help achieve the state's net zero targets in emissions by 2050 by contributing directly as new electricity grid infrastructure without additional emissions, which is regarded as a positive planning outcome. The preliminary investigation of the project also provides the local community with greater certainty and transparency on how renewable electricity grid infrastructure will be assessed and managed over their lifecycle.	Positive	No		Unknown	Not required	Unknown	Yes	Unknown	No	Unknown	Minor assessment of the impact	Required	Limited if required (eg customers, local Council)	Not required	No	Stakeholder engagement and consultation activities (eg community drop in sessions) to commence prior to the EIS stage and will continue throughout the Project development. Communication channels such as phone, email, project webpage for community information will be established to provide timely and accurate Project updates to the community and stakeholders.

Appendix C

BDAR waiver request

Baulkham Hills HV BESS

Preliminary Biodiversity Assessment and Biodiversity Development
Assessment Report (BDAR) Waiver Request (Waiver)

Ausconnex

Reference: P527164

Revision: 1

2025-03-25

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Appendix A

BDAR Waiver Checklist

Appendix B

BioNet Atlas search results

Appendix C

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Appendix D

Vegetation mapping

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Figure 1. Location map

Figure 2. Site map

Figure 3. Historical aerial images with approximate project site (State Government of NSW, n.d.b).

Figure 4. State Vegetation Type mapping.

Tables

Table 3-1: Flora within and adjacent to the project site.

Table 4-1. Trees to be removed on the eastern boundary of the project site

Table 6-1: Biodiversity development assessment report waiver request information requirements

Table 6-2: Impacts of the proposed development on biodiversity values

Table 6-3. BioNet Atlas search results: threatened flora

Table 6-4. BioNet Atlas search results: threatened and migratory fauna

Glossary

Term	Meaning
BC Act	<i>Biodiversity Conservation Act 2016</i>
BC Regulation	<i>Biodiversity Conservation Regulation 2017</i>
BDAR	Biodiversity Development Assessment Report
BESS	Battery Energy Storage System
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DPI	Department of Primary Industries
DPIE	Department of Planning, Industry and Environment
EP&A Act	Environmental Planning and Assessment Act 1979
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
FM Act	<i>Fisheries Management Act 1994</i>
ha	hectares
HV	high voltage
kV	kilovolts
LEP	Local Environment Plan
LGA	Local Government Area
MNES	Matters of National Environmental Significance
MW/ MWh	Megawatt
NSW	New South Wales
PCT	Plant Community Type
Planning Systems SEPP	State Environmental Planning Policy (Planning Systems) 2021
RMU	Ring Main Units
SEPP	State Environmental Planning Policy
SSD	State Significant Development
The Project	Baulkham Hills HV BESS

1 Introduction

1.1 Project context

Ausconnex is planning to develop, construct and operate a grid scale high voltage battery energy storage system (HV BESS) with a capacity of up to 100 MW/ 200 MWh, along with associated infrastructure. It is proposed that the Project ('**Baulkham Hills HV BESS**') be located within Endeavour Energy landholdings adjacent to the existing Baulkham Hills Transmission Substation in Baulkham Hills, New South Wales (NSW).

The Baulkham Hills HV BESS is defined as 'electricity generating works' as per Clause 2.6(1)(b) and Schedule 1(20) of the *State Environmental Planning Policy (Planning Systems) 2021* (Planning Systems SEPP) (Planning Systems SEPP, 2021), with an estimated cost of more than \$30 million. Approval is therefore sought in accordance with Part 4 Division 4.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) for State Significant Development (SSD).

1.2 Assessment context

This biodiversity assessment has been prepared for Baulkham Hills HV BESS on behalf of Ausconnex, and in support of preliminary assessments being undertaken by Aurecon during preparation of the Baulkham Hills Scoping Report.

This report constitutes a preliminary biodiversity assessment and Biodiversity Development Assessment Report (BDAR) Waiver Request, under section 7.9 of the *Biodiversity Conservation Act 2016* (BC Act). A BDAR waiver will only be issued in limited circumstances where the Project is not likely to have any significant impact on biodiversity values. This report has been prepared by a suitably qualified person, per NSW Government and DPIE guidelines (State Government of NSW and DPIE, 2019).

The objective of the biodiversity assessment is to determine the presence of any threatened flora, fauna, populations or ecological communities within the project site, listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), BC Act and/ or *Fisheries Management Act 1994* (FM Act). Where applicable, it will assess the impacts of the Project on any such species or their habitats and address the requirements of a BDAR waiver application (refer to Appendix A).

1.3 Location and site context

Proponent: Ausconnex

Project: The Baulkham Hills HV BESS is likely to have an estimated development cost greater than \$30 million, as such the Project would be considered SSD pursuant to the Planning Systems SEPP.

Site location: The Baulkham Hills HV BESS installation is proposed on the eastern side of the existing Baulkham Hills Transmission Substation within the property boundary located at 191Z Old Windsor Road, Old Toongabbie NSW (Lot 1 in DP 780050). Baulkham Hills HV BESS is within the City of Parramatta Local Government Area (LGA), in Western Sydney New South Wales (NSW), and is located approximately 25 km west of the Sydney Central Business District (refer to Figure 1). The location is bounded by Old Windsor Road (refer to Figure 2), with Toongabbie Creek and Toongabbie Government Farm Archaeological Site (Listing No: 01903) on the northern boundary, and industrial development to the south and west. The project site is currently maintained as mown grass and planted native and non-native trees (refer to Figure 2).

Development: The Baulkham Hills HV BESS would connect to the existing Baulkham Hills Transmission Substation via 33 kV underground cables. The Project would include the following key components:

- Electrical infrastructure

- Permanent ancillary infrastructure
- Temporary construction facilities
- Retention dam for stormwater/ firewater discharge: It is proposed that stormwater and firewater would be managed through constructing a firewater retention dam within the project site. A valve will be installed between dam and existing drainage to control the flow and retain firewater on site as required. The water would be treated sufficiently to allow discharge, or removed from site for treatment at a water treatment facility (refer to Figure 2).

Refer to Appendix A for detailed project description.

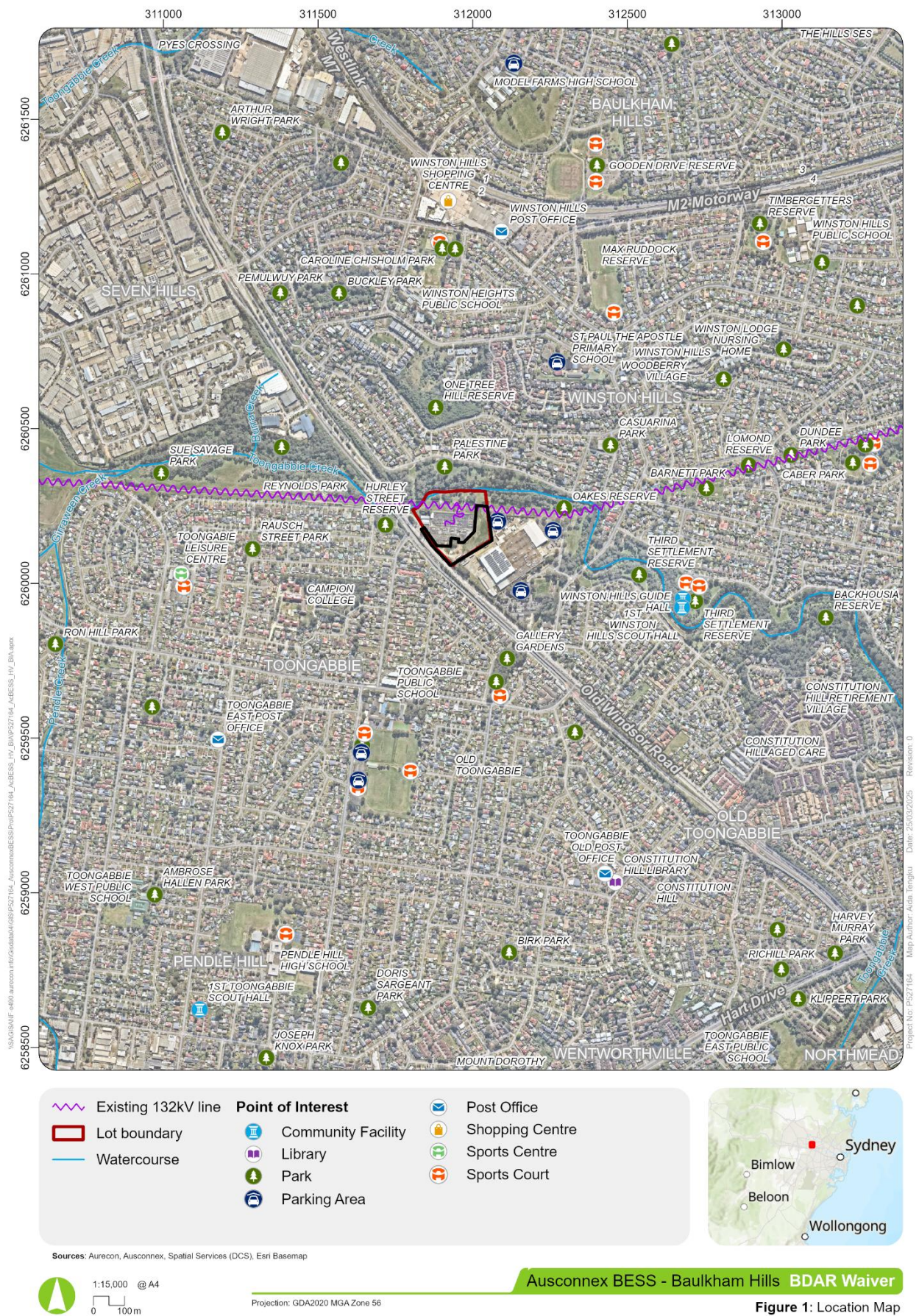


Figure 1. Location map

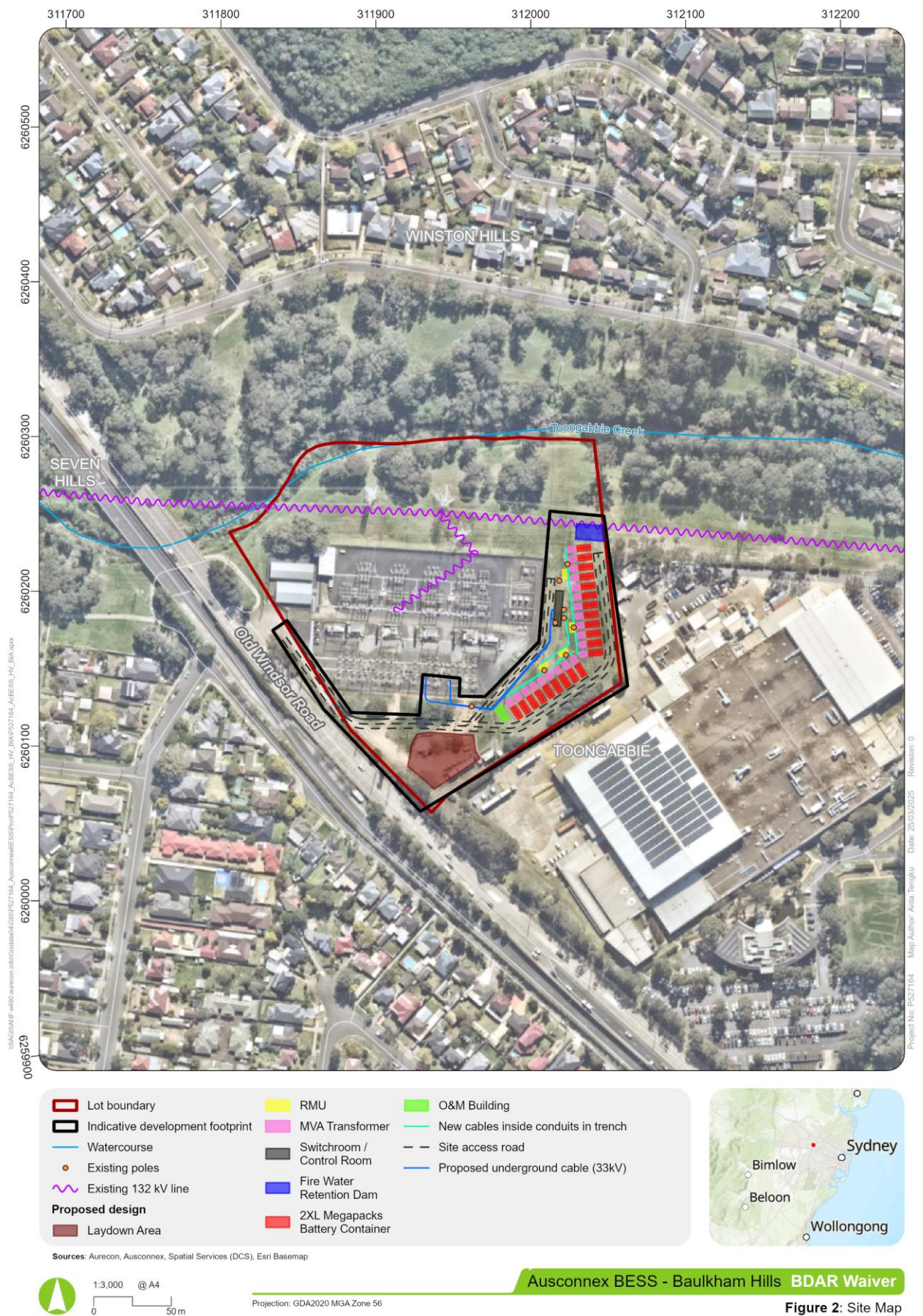
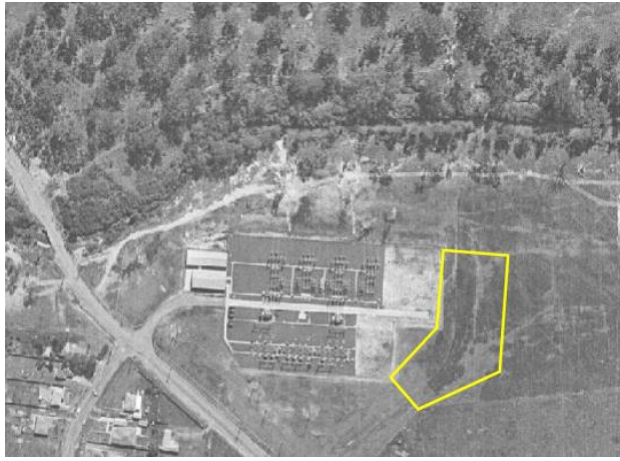


Figure 2. Site map



Approximate project site - 1965



Approximate project site - 1978



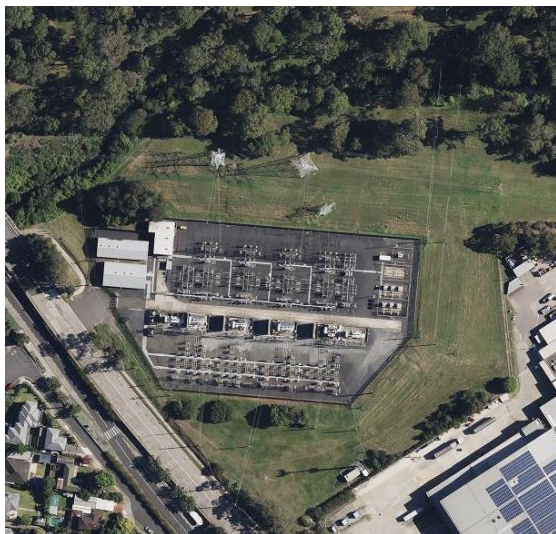
Approximate project site – 1986

Plantings on the southern boundary of the existing Baulkham Hills Transmission Substation from circa 1979



Approximate project site - 1991

No plantings on the south-eastern boundary of the property in 1991. Plantings visible in this photo are south of the project site, outside of the property boundary (Scarlet bottlebrush (*Melaleuca rugulosa*/ *Callistemon rugulosus*) plantings, endemic to South Australia and Victoria).



Current aerial imagery – post 1991 (date unknown (State Government of NSW, n.d.a). Refer to Figure 2 for the Project site with design elements.

Figure 3. Historical aerial images with approximate project site (State Government of NSW, n.d.b).

2 Methods

2.1 Desktop assessment

Database reviews were conducted to identify potential ecological values that may be impacted upon by the Project. The following databases were reviewed

- **Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) PMST** (Commonwealth DCCEEW, 2024): identifies the potential presence of Matters of National Environmental Significance (MNES) and other protected matters under the EPBC Act. A search was conducted on 15 October 2024 to identify MNES within a 10 km radius of the project site
- **NSW DCCEEW State Vegetation Type mapping** (State Government of NSW and NSW DCCEEW, 2022): identifies Plant Community Types (PCTs) including association with EPBC Act or BC Act Threatened Ecological Communities (TECs). A review was conducted on 01 November 2024 to assess vegetation mapped in proximity to the project site
- **NSW DCCEEW BioNet Atlas of NSW Wildlife database** (State Government of NSW and NSW DCCEEW, 2024b): The BioNet Atlas of NSW Wildlife database contains records of wildlife sightings within NSW. A search was conducted on 12 November 2024 to identify sightings of threatened flora and fauna listed under the EPBC Act and BC Act, within a 10 km radius of the project site within the last 20 years
- **NSW Department of Planning, Industry and Environment (DPIE) eSpade soil mapping database** (State Government of NSW and DPIE, 2024): A review was conducted on 01 November 2024 to identify the soil landscape and erodibility risk of the project site
- **NSW Department of Primary Industries (DPI) Fisheries Spatial Data Portal** (State Government of NSW and DPI and Regional Development, 2024): A review was conducted 01 November 2024 to identify Key Fish Habitat and other matters protected under the FM Act within the project site
- **NSW DPI WeedWise** (State Government of NSW and DPI, 2024) **and Greater Sydney Regional Strategic Weed Management Plan 2023-2027** (State Government of NSW and Greater Sydney Local Land Services, 2022): A review was conducted 01 November 2024 to identify Priority Weeds within the project site
- **NSW DCCEEW Biodiversity Values map and threshold tool** (State Government of NSW and NSW DCCEEW, 2024a): review was conducted 01 November 2024 to identify mapped NSW Biodiversity Values within the project site

2.2 Field assessment

Field assessment was undertaken on 3 October 2024 by two suitably qualified Aurecon environmental consultants:

- **Dominic Adshead**, Associate environmental consultant with 25 years' experience in biodiversity and bushfire assessments and environmental planning, including 13 years' experience in NSW National Parks and Wildlife Service and NSW and NSW Forestry Corporation and more than 14 years' experience as an environmental consultant. This experience includes hundreds of hours of hands-on flora and fauna surveys, preparation of 100s of Part 5 Review of Environmental Factors, member/part member of four threatened species recovery teams and development of statewide flora and fauna survey protocols. In Western Sydney Dominic has project managed biodiversity surveys and assessments for the Mulgoa Road upgrade, Western Sydney Airport Metro (Orchard Hills to Luddenham), Riverstone East Stage 3, and additional confidential biodiversity projects within all western Sydney Defence sites (Glenbrook, Orchard Hills, Richmond, Bringelly and Londonderry). Dominic has a Bachelor of Science (Forestry) from the Australian National University.
- **Isabelle Andary-Geslin**, environmental consultant with 1.5 years' experience in Aurecon's Bushfire and Biodiversity (Environment and Planning) team

Field assessment identified all vegetation within the project site, and identified potential fauna habitat features within the project site, including human-made structures, native and non-native vegetation, hollow bearing trees, rocks, waterways and aquatic habitat. The field survey included opportunistic observations of fauna (both threatened and non-threatened).

The results of the database assessment and field assessment confirmed the existing environment and biodiversity values that are present within the project site (refer to Section 3).

3 Results

The following results consider the findings of the desktop assessment and ground-truthed field assessment.

3.1 Vegetation

Two native vegetation communities are mapped north of the project site:

- 3320: Cumberland Shale Plains Woodland
- 4025: Cumberland Red Gum Riverflat Forest (refer to Figure 4).

Field assessment confirmed that vegetation within the project site does not constitute a native PCT.

The project site is approximately 0.4 ha, adjacent to an existing substation with associated infrastructure. Vegetation consists of planted native and non-native midstory and canopy vegetation, and groundcover of mown and managed native and non-native grasses and weed species (refer to Table 3-1). Planted vegetation occurs in two areas:

1. On the southern boundary of the existing Baulkham Hills Transmission Substation, established circa 1979
2. On the south-eastern boundary of the property, established post-1990

The project site contains two NSW State Priority Weeds – Camphor laurel (*Cinnamomum camphora*) and African lovegrass (*Eragrostis curvula*), and one priority weed for the Greater Sydney Local Land Services region – Lantana (*Lantana camara*). The latter species is subject to Mandatory Measure prohibits sale within or import into NSW (State Government of NSW and Greater Sydney Local Land Services, 2022); and both are subject to the General Biosecurity Duty, as outlined in the *NSW Biosecurity Act 2015*.

South of the project site, outside of the property boundary, there are several Scarlet bottlebrush (*Melaleuca rugulosa/ Callistemon rugulosus*) plantings. These species are native to Australia, but not endemic to NSW (the species are endemic to South Australia and Victoria).

Table 3-1: Flora within and adjacent to the project site.

Scientific name	Common name	Category	Details	Impacted?
Midstory and canopy species				
<i>Acacia parramattensis</i>	Parramatta wattle	Native, endemic to NSW	■ 36 individual trees	Yes
<i>Banksia integrifolia</i>	Coast banksia	Native, endemic to NSW	■ One individual tree	No
<i>Callistemon salignus</i>	Willow bottlebrush	Native, endemic to NSW	■ Two individual trees ■ Four individual trees	No
<i>Cinnamomum camphora</i>	Camphor laurel	Non-native, NSW State Priority Weed (State Government of NSW and DPI, 2024)	■ One individual tree	Yes
<i>Corymbia citriodora</i>	Lemon-scented gum	Native, not endemic to NSW (endemic to Queensland)	■ Resprout from stump	Yes
<i>Eucalyptus sideroxylon</i>	Mugga ironbark	Native, endemic to NSW	■ One individual tree	No
<i>Grevillea robusta</i>	Silky oak	Native, not endemic to Western Sydney NSW (endemic to northern NSW and Queensland)	■ One individual tree	Yes

Scientific name	Common name	Category	Details	Impacted?
<i>Leptospermum</i> sp.	n/a	Native	■ One individual tree	No
<i>Lophostemon confertus</i>	Brisbane brush box	Native, not endemic to NSW (endemic to Queensland)	■ Five individual trees	No
<i>Olea lancea</i>	Olive tree	Non-native	■ Two olive trees in different parts of the site	Yes
<i>Photinia glabra</i>	Japanese Photinia	Non-native	■ Two individual trees with 11 and 15 stems respectively	Yes
Groundcover species				
<i>Soliva sessilis</i>	Bindi	Non-native	■ 20% cover	Yes
<i>Plantago lanceolata</i>	Ribwort plantain	Non-native	■ 1% cover	Yes
<i>Trifolium</i> sp. 1	Clover	Non-native	■ 10% cover	Yes
<i>Trifolium</i> sp. 2	Clover	Non-native	■ 5% cover	Yes
<i>Pennisetum clandestinum</i>	Kikuya	Non-native	■ 80% cover	Yes
<i>Eragrostis curvula</i>	African lovegrass	Non-native NSW State Priority Weed (State Government of NSW and DPI, 2024)	■ 5% cover	Yes
<i>Lantana camara</i>	Lantana	Non-native, Priority Weed for the Greater Sydney (State Government of NSW and DPI, 2024; State Government of NSW and Greater Sydney Local Land Services, 2022)	■ 1% cover	Yes
<i>Taraxacum officinale</i>	Dandelion	Non-native	■ 20% cover	Yes
<i>Briza minor</i>	Shivery grass	Non-native	■ 50% cover	Yes
<i>Panicum</i> species	n/a	Native	■ 30% cover	Yes
<i>Poa</i> species	n/a	Native	■ 30% cover	Yes

3.2 Fauna habitat features

Field assessment confirmed two bird nests within the project site:

- One Bronzewing nest within Japanese Photinia (*Photinia glabra*), to be retained.
- One common Masked Lapwing (*Vanellus miles*) nest within managed native and non-native grass, to be removed.

Field assessment confirmed that vegetation and human-made structures within the project site do not constitute suitable foraging, roosting, or nesting threatened fauna habitat. While the project site does contain one common Masked Lapwing, these species have broad nesting requirements (the species nests in a scrape in the ground away from ground cover, often in recreational areas including schools, paths, and sporting fields). Potential habitat features identified within the project site include:

- Mown grass dominated by lawn and non-native species: perpetually managed and maintained, and considered unsuitable foraging habitat for native and threatened fauna species
- Native planted trees: of the trees to be removed within the project area, one Silky oak, one Lemon-scented gum and 36 Parramatta wattle are native, and only Parramatta wattle is endemic to the region. All individuals are planted (refer to Figure 3). These trees do not contain bird nests or signs of fauna use, do not contain habitat features such as hollows, and are considered unsuitable for roosting or nesting habitat for fauna species. Silky Oak and Lemon-scented gum are not endemic to the region, however, have the potential to provide foraging resources for nectar-feeding threatened fauna such as birds and Grey-Headed Flying Fox. While there are general foraging resources within endemic and native species, all Parramatta wattle individuals are small diameter, the majority are senescing mature/overmature individuals or dead, with minimal foraging habitat value. There is a lack of new seedling recruitment potentially as a result of lack of soil disturbance and ongoing site mowing.
- Non-native planted trees: Two olive trees and one Camphor laurel to be removed within the project area do not contain bird nests or signs of fauna use, do not contain habitat features such as hollows, are considered unsuitable for roosting or nesting habitat for fauna species, and the species is considered unsuitable foraging habitat for native bird species.

3.3 Waterways and aquatic habitat

Field assessment confirmed that the project site does not contain waterways or aquatic habitat. No impacts to aquatic habitat or species are likely to occur as a result of the Project.

The nearest substantial aquatic and riparian habitat is associated with Toongabbie Creek. This area is 90 m north of the project site. The topography of the Baulkham Hills site slopes down towards Toongabbie Creek. Toongabbie Creek contains Key Fish Habitat (State Government of NSW and DPI and Regional Development, 2024), and is associated with NSW Biodiversity Values 'Threatened species or communities with potential for serious and irreversible impacts' (State Government of NSW and NSW DCCEW, 2024a).

3.4 Threatened flora and fauna, and TECs

Field assessment confirmed that no TECs occur within the project site. Based on the desktop feasibility assessment previously undertaken (AECOM, 2024), the closest TEC is River-flat eucalypt forest on coastal floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions (BC Act – Endangered) and Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest (EPBC Act – Critically Endangered), which occur approximately 60 m north of the project site.

There are records of threatened fauna species within 10 km of the project site, including records of the following species within 500 m of the project site:

- Greater Broad-nosed Bat (*Scoteanax rueppellii*), recorded in 2016, approximately 450 m east of the project site, in proximity to Toongabbie Creek
- Grey-headed Flying-fox (*Pteropus poliocephalus*), most recently recorded in 2021, approximately 450 m in all directions of the project site
- Little Lorikeet (*Glossopsitta pusilla*), recorded in 2012, approximately 500 m east of the project site
- Powerful Owl (*Ninox strenua*), recorded in 2020, approximately 450 m west of the project site, in proximity to Toongabbie Creek
- Sydney Plains Greenhood (*Pterostylis Saxicola*), recorded in 2016, approximately 200 m north of the project site across Toongabbie Creek
- White-throated Needletail (*Hirundapus caudacutus*), recorded in 2017, approximately 450 m east of the project site, in proximity to Toongabbie Creek

Field assessment confirmed that no threatened flora species occur within the project site. During field assessment, no threatened fauna species were incidentally identified within the project site. Field assessment confirmed that vegetation and human-made structures within the project site do not constitute

suitable foraging, roosting, or nesting fauna habitat for threatened or native species (refer to Section 3.2). Groundcover is regularly mown to provide an operational buffer to the existing structure, and power line clearance. As a result, no threatened flora or fauna species were considered moderately or highly likely, or known to occur within the project site.

4 Impacts

4.1 Impacts to vegetation

4.1.1 Impacted vegetation

The project site encompasses approximately 0.4 ha of land heavily modified through previous historical disturbance, including complete clearing prior to 1978, and majority clearing prior to 1991 (refer to Figure 3). The site contains two rows of planted native and non-native midstory and canopy vegetation, and groundcover of mown and managed native and non-native grasses and weed species. Of the vegetation within the project site (refer to Table 3-1), the following will be impacted:

- Approximately 0.4 ha of mown and managed native and non-native grasses and weed species
- One Japanese photinia (non-native), no habitat features
- One row of 41 planted trees on the eastern boundary of the project site (refer to Table 4-1).

Table 4-1. Trees to be removed on the eastern boundary of the project site

Scientific name	Common name	Count	Details
<i>Cinnamomum camphora</i>	Camphor laurel	1	Non-native, NSW State Priority Weed (State Government of NSW and DPI, 2024)
<i>Olea lancea</i>	Olive tree	2	Non-native, within planted row
<i>Corymbia citriodora</i>	Lemon-scented gum	1	Native, not endemic to NSW (endemic to Queensland), within planted row
<i>Acacia parramattensis</i>	Parramatta wattle	36	Native, endemic, within planted row
<i>Grevillea robusta</i>	Silky oak	1	Native, not endemic to Western Sydney NSW (endemic to northern NSW and Queensland), within planted row
Total		41	

Therefore, removal of vegetation consists of 0.4 ha of non-native-dominated mown and managed grass, one non-native tree, and one row of 41 planted native endemic, non-endemic, and non-native trees.

4.2 Impacts to fauna habitat features

Vegetation and human-made structures within the project site do not constitute suitable foraging, roosting, or nesting threatened fauna habitat. Of the fauna habitat features within the project site, the following will be impacted:

- One common Masked Lapwing nest within managed native and non-native grass. Masked Lapwings are visibly defensive of nesting locations and chicks (WIRES, 2024). Eggs typically hatch between 28 – 30 days, and chicks are able to leave the nest hours after hatching (Tasmanian Government and Department of Natural Resources and Environment Tasmania, 2024; WIRES, 2024). As relocation of an active nest would likely result in egg abandonment (WIRES, 2024), all potential impacts would be avoided

through undertaking the project after any eggs have hatched, when the resulting chicks are not dependent on the nest.

- Managed native and non-native grass: perpetually managed and maintained, and considered unsuitable foraging habitat for native and threatened fauna species.
- One individual Japanese Photinia (non-native): does not contain bird nests or signs of fauna use, does not contain habitat features such hollows, and is considered unsuitable foraging habitat for native bird species.
- One row of 41 planted trees (native endemic, non-endemic, and non-native trees): does not contain bird nests or signs of fauna use, do not contain habitat features such hollows, and are considered unsuitable roosting or nesting habitat for fauna species. Silky Oak and Lemon-scented gum are not endemic to the region, however, have the potential to provide foraging resources for nectar-feeding threatened fauna such as birds and Grey-Headed Flying Fox. While there are general foraging resources within native species, all Paramatta wattle individuals are small diameter, the majority are senescing mature/overmature individuals or dead, with minimal foraging habitat value. There is a lack of new seedling recruitment potentially as a result of lack of soil disturbance and ongoing site mowing.

4.3 Impacts to waterways and aquatic features

There are no waterways within the project site. The topography of the Baulkham Hills site slopes down towards Toongabbie Creek, 90 m north of the project site. Potential impacts would be controlled for by standard mitigation measures.

4.4 Impacts to threatened flora and fauna, and TECs

There are no TECs, or threatened flora species within the project site. No threatened fauna species were incidentally identified within the project site. No threatened flora or fauna species were considered moderately or highly likely or known to occur within the project site.

5 Conclusion

The project site is predominantly non-native planted vegetation and mown grasses, and planted native and non-native vegetation, historically cleared and adjoining an existing substation with associated infrastructure.

It is concluded that if the project is to proceed as planned there will be no significant impacts to biodiversity values and as such a BDAR Waiver is requested to be granted in accordance with s.7.9(2) of the BC Act (refer to Appendix A).

6 References

- AECOM. (2024). *Feasibility Assessment: Ausconnex Battery Energy Storage Sites*. Newcastle: AECOM, prepared for Endeavour Energy.
- Commonwealth DCCEEW. (2024). *EPBC Act Protected Matters Search Tool (PMST) [online]*. Retrieved from Department of Climate Change, Energy, the Environment and Water: <https://pmst.awe.gov.au/>
- State Government of NSW and DPI. (2024). *NSW WeedWise*. Retrieved from Department of Primary Industries: <https://weeds.dpi.nsw.gov.au/WeedBiosecurities?Areald=115>
- State Government of NSW and DPI and Regional Development. (2024). *Fisheries NSW Spatial Data Portal*. Retrieved from Department of Primary Industries and Regional Development: https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal
- State Government of NSW and DPIE. (2019). *How to apply for a biodiversity development assessment report waiver for a Major Project Application*. Sydney: Department of Planning, Industry, and Environment. Retrieved from <https://www.environment.nsw.gov.au/topics/animals-and-plants/biodiversity-offsets-scheme/biodiversity-development-assessment-report-waiver#:~:text=The%20BDAR%20waiver%20request%20can%20be%20lodged%20with,within%2028%20days%20of%20the%20request%20being%20r>
- State Government of NSW and DPIE. (2024). *eSPADE v2.1 [online]*. Retrieved from Department of Planning, Industry and Environment: <https://www.environment.nsw.gov.au/eSpade2WebApp#>
- State Government of NSW and Greater Sydney Local Land Services. (2022). *Greater Sydney Regional Strategic Weed Management Plan 2023 - 2027*. Retrieved from https://www.lls.nsw.gov.au/__data/assets/pdf_file/0010/722368/Greater-Sydney-Regional-Strategic-Weed-Management-Plan-2023-2027.pdf
- State Government of NSW and NSW DCCEEW. (2022). *NSW State Vegetation Type Map*. (NSW Government, Department of Planning and Environment) Retrieved from <https://datasets.seed.nsw.gov.au/dataset/nsw-state-vegetation-type-map>
- State Government of NSW and NSW DCCEEW. (2024a). *Biodiversity Values Map and Threshold Tool*. Retrieved from Department of Planning and Environment: <https://www.lmbc.nsw.gov.au/Maps/index.html?viewer=BOSETMap>
- State Government of NSW and NSW DCCEEW. (2024b). *NSW BioNet Atlas*. Retrieved from NSW Government Environment and Heritage: https://atlas.bionet.nsw.gov.au/UI_Modules/ATLAS_/AtlasSearch.aspx
- State Government of NSW. (n.d.a). Retrieved from Sixmaps: <https://maps.six.nsw.gov.au/>
- State Government of NSW. (n.d.b). Retrieved from Historical Imagery: <https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/index.html?id=f7c215b873864d44bccddd8075238cb>
- Tasmanian Government and Department of Natural Resources and Environment Tasmania. (2024). *Wildlife Management: Living with masked lapwings (Plovers)*. Retrieved from Tasmanian Government Information: [https://nre.tas.gov.au/wildlife-management/living-with-wildlife/living-with-masked-lapwings-\(plovers\)](https://nre.tas.gov.au/wildlife-management/living-with-wildlife/living-with-masked-lapwings-(plovers))
- WIRES. (2024). *Wildlife Information: Species Information: Plovers*. Retrieved from WIRES Wildlife Rescue: <https://www.wires.org.au/wildlife-information/plovers>

Appendix A

BDAR Waiver Checklist

Table 6-1: Biodiversity development assessment report waiver request information requirements

Information	Description
Admin	
Proponent name and contact details	Name: Ausconnex Address: 49 Glendenning Road, Glendenning NSW 2761 Contact: Johann Coetzer Johann.coetzer@ausconnex.com.au
Project ID	No SSD identification currently. The Baulkham Hills HV BESS is likely to have an estimated development cost greater than \$30 million, as such the Project would be considered SSD pursuant to the Planning Systems SEPP.
Name and ecological qualifications of person completing	Name: Naomi Mansell Tertiary qualification: MSc Wildlife and Conservation Management, University of South Wales (2019) Experience: 3.5 years in as an environmental consultant, in Aurecon's Bushfire and Biodiversity (Environment and Planning) team, including field identification of plant and animal species and habitats.
Site details	
Location	The Baulkham Hills HV BESS installation is proposed on the eastern side of the existing Baulkham Hills Transmission Substation within the property boundary located at 191Z Old Windsor Road, Old Toongabbie NSW (Lot 1 in DP 780050). Baulkham Hills HV BESS is located in the City of Paramatta LGA, in Western Sydney NSW.
Description of development site	The indicative development footprint is approximately 0.4 ha and is bordered by perimeter security fencing. The project site is bordered Toongabbie Creek and Toongabbie Government Farm Archaeological Site (Listing No: 01903) approximately 90 m north of the project site, by industrial development to the south and west, and by Old Windsor Road to the southwest. Old Windsor Road is three to four lanes each direction, and is classified as a State road (zoned SP2 – Infrastructure) under the <i>Roads Act 1993</i>. During construction and operation of the Baulkham Hills HV BESS, vehicular access would be via the sealed driveway, accessible from the southbound lane of Old Windsor Road, south of the site. The land is currently zoned E4 – General Industrial, under the Parramatta Local Environment Plan (LEP) 2023. The project site is bordered by industrial and residential development. Surrounding land uses include RE1 – Public Recreation to the north, E4 – General Industrial to the east, and R2 – Low Density Residential and R3 – Medium Density Residential to the south and west. The site is heavily modified through previous historical disturbance, including complete clearing prior to 1978, and majority clearing prior to 1991 (refer to Figure 3). The indicative development footprint has a non-native-dominated mown grass, planted native and non-native midstory and canopy vegetation, and weed species. This includes one

Information	Description
	row of 41 planted trees on the eastern boundary of the project site (refer to Table 4-1). The site is located 27-30 m above sea level.
Location map	Refer to Figure 1.
Site map	Refer to Figure 2.
Proposed development	
Project description	The Baulkham Hills HV BESS would connect to the existing Baulkham Hills Transmission Substation via 33 kV underground cables. The MW/ MWh capacity of Baulkham Hills HV BESS would be 70 - 100 MW / 140 - 200 MW. Based on a concept layout, the Project would include the following key components: ■ Electrical infrastructure including: – Two new feeder bays to be installed at the 33 kV busbar – Existing 33 kV overhead transmission line belonging to the feeder 472 to be replaced with an underground cable traversing the eastern boundary of the Baulkham Hills Transmission Substation – 40 Megapack units – 20 transformers – 33 kV cable – Ring Main Units – 33 kV Switchroom and control room. ■ Other permanent ancillary infrastructure including: – Access road (10 m wide and 150 m long), which would provide access to the BESS site – Concrete pads for the HV BESS modules and associated infrastructure – Operation and maintenance building – Car parking – Security fencing, lighting, signage and lightning protection – Fire detection and suppression equipment – Internal access track – Formalised underground stormwater network, and provision for water detention (for water quality and fire water purposes). – Potential noise barrier (pending detailed noise impact assessment). ■ Temporary construction facilities including: – Site office – Construction compounds and laydown areas – Stormwater and sediment controls for the Project area. During construction and operation of the Baulkham Hills HV BESS, vehicular access would be via the sealed driveway, accessible from the southbound lane of Old Windsor Road, south of the site.

Information	Description
Proposed site plan	Refer to Figure 2.
Impacts on biodiversity values	
Biodiversity values	Refer to Table 6-2 below. For each biodiversity value, an explanation has been provided as to why the value is not relevant to the Project or how impacts have been avoided. The likelihood and extent of any remaining impacts of the Project, including impacts prescribed under Clause 6.1 of the BC Regulation 2017 have been included. The following are supplied as appendices: ■ Appendix B – BioNet Atlas search results ■ Appendix C – PMST search results ■ Appendix D – Vegetation mapping ■ Appendix E – Site photographs

Table 6-2: Impacts of the proposed development on biodiversity values

Biodiversity value	Meaning	Potential impacts under the BC Regulation
Vegetation abundance – 1.4(b) BC Regulation	Occurrence and abundance of vegetation at a particular site	The project site encompasses approximately 0.4 ha of land heavily modified through previous historical disturbance, including complete clearing prior to 1978, and majority clearing prior to 1991 (refer to Figure 3). The site contains two rows of planted native and non-native midstory and canopy vegetation, and groundcover of mown and managed native and non-native grasses and weed species. Vegetation within the project site does not constitute a native PCT. Removal of vegetation within the project site consists of: ■ 0.4 ha of non-native-dominated mown and managed grass ■ One non-native tree – Japanese photinia ■ One row of 41 planted native endemic, non-endemic, and non-native trees. Refer to Photo 1 - Photo 5 for vegetation within the project site. All Paramatta wattle individuals are small diameter, the majority are senescing mature/overmature individuals or dead, with minimal foraging habitat value. There is a lack of new seedling recruitment potentially as a result of lack of soil disturbance and ongoing site mowing. The remaining trees to be impacted within the Project site are Silky oak, Lemon-scented gum, Japanese photinia, Olive tree and Camphor laurel. These are non-endemic, and non-native invasive species. Given the poor condition of existing vegetation, the removal of these species is not considered to have a significant impact on vegetation abundance within the Project site. The Project would not have a significant impact on vegetation abundance.
Vegetation integrity 1.5(2)(a) BC Act	Degree to which the composition, structure and function of vegetation at a particular site and the surrounding landscape has been	Vegetation within the project site is heavily modified through previous historical disturbance, including complete clearing prior to 1978, and majority clearing prior to 1991 (refer to Figure 3). Vegetation within the project does not constitute a native PCT. There are no TECs within or adjoining the project site. Removal of vegetation within the project site consists of:

Biodiversity value	Meaning	Potential impacts under the BC Regulation
	altered from a nearnatural state	0.4 ha of non-native-dominated mown and managed grass (groundcover is dominated by non-native species, including 80% Kikuya grass and 50% Shivery grass). - One non-native tree – Japanese photinia - One row of 41 planted native endemic, non-endemic, and non-native trees. The project site contains two NSW State Priority Weeds – Camphor laurel (<i>Cinnamomum camphora</i>) and African lovegrass (<i>Eragrostis curvula</i>), and one priority weed for the Greater Sydney Local Land Services region – Lantana (<i>Lantana camara</i>). The structural and functional integrity of vegetation within the project site is considered to be low, with low species diversity and no non-planted native vegetation. There is no connectivity between planted trees and vegetation within or adjacent to the project site. The Project would not have a significant impact on vegetation integrity.
Habitat suitability 1.5(2)(b) BC Act	Degree to which the habitat needs of threatened species are present at a particular site	No threatened fauna species were incidentally identified within the project site. No threatened flora or fauna species were considered moderately or highly likely or known to occur within the project site. The Project would not contribute to an increase of noise or light, such that would impact threatened fauna species. The project site is currently zoned E4 – General Industrial, under the Parramatta Local Environment Plan (LEP) 2023. The project site is bordered by industrial and residential development. Surrounding land uses include RE1 – Public Recreation to the north, E4 – General Industrial to the east, and R2 – Low Density Residential and R3 – Medium Density Residential to the south and west. The project site is adjacent to Old Windsor Road, serviced by heavy vehicular traffic. Old Windsor Road is three to four lanes each direction, and is classified as a State road (zoned SP2 – Infrastructure) under the <i>Roads Act 1993</i>. During construction and operation of the Baulkham Hills HV BESS, vehicular access would be via the sealed driveway, accessible from the southbound lane of Old Windsor Road, south of the site. The Project would not result in measurable changes to the functioning of the development site or the amount or type of vehicular traffic using the area. Vegetation within the project site is heavily modified through previous historical disturbance and consists of non-native-dominated mown and managed grass, one planted non-native tree, and one row of 41 planted native endemic, non-endemic, and non-native trees. The project site does not contain threatened species, or TEC. The project site <i>does not</i> contain the following features: - karst, caves, crevices, cliffs and other geological features of significance - rocks - human-made structures The project site <i>does</i> contain the following features: - non-native vegetation However, these features are not considered to be suitable fauna habitat for the following reasons: - Non-native-dominated mown and managed grass: perpetually managed and maintained, and considered unsuitable foraging habitat for native and threatened fauna species

Biodiversity value	Meaning	Potential impacts under the BC Regulation
		- One planted non-native tree: does not contain bird nests or signs of fauna use, does not contain habitat features such hollows, and is considered unsuitable foraging habitat for native bird species. - One row of 41 planted native endemic, non-endemic, and non-native trees: does not contain bird nests or signs of fauna use, does not contain habitat features such hollows, and are considered unsuitable roosting or nesting habitat for fauna species. While there are general foraging resources within endemic species for native birds, all Paramatta wattle individuals are small diameter, the majority are senescing mature/overmature individuals or dead, with minimal foraging habitat value. There is a lack of new seedling recruitment potentially as a result of lack of soil disturbance and ongoing site mowing. The project site contains low habitat suitability for native or threatened flora and fauna. The Project would not have a significant impact on habitat suitability.
Threatened species abundance 1.4(a) BC Regulation	Occurrence and abundance of threatened species or threatened ecological communities, or their habitat, at a particular site	Vegetation within the project site is heavily modified through previous historical disturbance and consists of non-native-dominated mown and managed grass, one planted non-native tree, and one row of 41 planted native endemic, non-endemic, and non-native trees. There are no TECs, or threatened flora species within the project site. No threatened fauna species were incidentally identified within the project site. No threatened flora or fauna species were considered moderately or highly likely or known to occur within the project site. The project site is within a developed industrial and residential area and adjacent to Old Windsor Road, serviced by heavy vehicular traffic. The Project would not result in measurable changes to the functioning of the development site or the amount or type of vehicular traffic using the area. The Project would not contribute to an increase in vehicle strikes on threatened species of animals or on animals that are part of a threatened ecological community. There are no human-made structures within the project site. The Project would not impact potential microbat roosting habitat. Microbats and bird species may be considered to forage aerially within the project site, the project would not alter use or measurably decrease aerial foraging habitat of the surrounding land. Vegetation, including non-native vegetation, within the project site does not constitute suitable foraging, roosting, or nesting fauna habitat. The project site is highly urbanised with little to no native vegetation assemblages, and is considered to contain low habitat suitability for native or threatened flora and fauna. There are no waterways (natural or non-natural) within the project site, and no suitable habitat for threatened amphibian species. The Project would not have a significant impact on threatened species abundance.
Habitat connectivity 1.4(c) BC Regulation	Degree to which a particular site connects different areas of habitat of threatened species to facilitate the movement of those species across their range	The project site is located in a highly urbanised, industrial and residential area within the City of Parramatta LGA. Vegetation within the project site is heavily modified through previous historical disturbance and consists of non-native-dominated mown and managed grass, one planted non-native tree, and one row of 41 planted native endemic, non-endemic, and non-native trees. This planted tree row is on the south-eastern boundary of the property, immediately adjacent to security fencing. The security fencing borders industrial development. The planted row of vegetation does not form habitat corridors within the

Biodiversity value	Meaning	Potential impacts under the BC Regulation
		project site or connect to vegetation within the project site. Vegetation within the project site does not facilitate habitat connectivity to any areas of native or non-native vegetation adjacent to the project site, or to the vegetated riparian habitat adjacent to the Toongabbie Creek, approximately 90 m north of the project site. The Project would not have a significant impact on habitat connectivity.
Threatened species movement 1.4(d) BC Regulation	Degree to which a particular site contributes to the movement of threatened species to maintain their lifecycle	The project site is located in a highly urbanised, industrial and residential area within the City of Paramatta LGA. The site is surrounded by a perimeter security fence and is adjacent to Old Windsor Road, serviced by heavy vehicular traffic. Vegetation within the project site does not form habitat corridors within the project site, or connect to patches of vegetation within or adjacent to the project site. No threatened fauna species were considered moderately or highly likely or known to occur within the project site, as vegetation within the project site do not constitute suitable foraging, roosting, or nesting fauna habitat. The Project would not alter dispersal or movement of aerial birds, amphibians, reptiles or mammals through the project site. This project site provides suboptimal habitat to facilitate movement of threatened fauna across the landscape or any other threatened species to maintain their lifecycle. The Project would not have a significant impact on threatened species movement.
Flight path integrity 1.4(e) BC Regulation	Degree to which the flight paths of protected animals over a particular site are free from interference	31 species of migratory birds have previously been recorded within 10 km of the project site (refer to Appendix B). The majority of these records are associated with the waterways within Sydney Olympic Park (within 10 km of the project site) and other waterways. Several species of microbat have previously been recorded within 10 km of the project site. These species are: ■ Large-eared Pied Bat (<i>Chalinolobus dwyeri</i>) ■ Eastern False Pipistrelle (<i>Falsistrellus tasmaniensis</i>) ■ Eastern Coastal Free-tailed Bat (<i>Micronomus norfolkensis</i>) ■ Little Bent-winged Bat (<i>Miniopterus australis</i>) ■ Large Bent-winged Bat (<i>Miniopterus orianae oceanensis</i>) ■ Southern Myotis (<i>Myotis macropus</i>) ■ Yellow-bellied Sheath-tail-bat (<i>Saccolaimus flaviventris</i>) ■ Greater Broad-nosed Bat (<i>Scoteanax rueppellii</i>) ■ Eastern Cave Bat (<i>Vespadelus troughtoni</i>) Grey-headed Flying-foxes (<i>Pteropus poliocephalus</i>) are known within the area, with the nearest camp (Parramatta Park 1(134)) located 4 km south-east of the project site. The project site does not provide suitable foraging, nesting or roosting habitat for common native bird species, threatened birds, migratory birds or flying mammals including microbats and Grey-headed Flying-foxes (<i>Pteropus poliocephalus</i>). As such, the Project would not fragment existing habitat. The Project would not alter dispersal or movement of aerial birds or mammals through the project site. The project would not increase the height of infrastructure more than what already exists within the project site, and would not interfere with the flight path of protected animals. As

Biodiversity value	Meaning	Potential impacts under the BC Regulation
		such, the Project would not create a dispersal barrier to suitable habitat areas within the wider environment. The Project would not have a significant impact on flight path integrity.
Water sustainability 1.4(f) BC Regulation	Degree to which water quality, water bodies and hydrological processes sustain threatened species and threatened ecological communities at a particular site	Field assessment confirmed that the project site does not contain waterways or aquatic habitat. nearest substantial aquatic and riparian habitat is associated with Toongabbie Creek, 90 m north of the project site. The topography of the Baulkham Hills site slopes down towards Toongabbie Creek. Potential indirect impacts to waterways would be managed through standard controls. The Project does not involve underground mining or development which would cause subsidence or upsidence. The Project would not have a significant impact on water sustainability.

Appendix B

BioNet Atlas search results

Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Department of Planning, Industry and Environment. Search criteria : Licensed Report of all Valid Records of Threatened (listed on BC Act 2016) ,Commonwealth listed ,CAMBA listed ,JAMBA listed or ROKAMBA listed Entities in selected area [North: - 33.68 West: 150.86 East: 151.08 South: -33.88] recorded since 12 Nov 2004 until 12 Nov 2024 returned a total of 21,707 records of 118 species.

Table 6-3. BioNet Atlas search results: threatened flora

Scientific Name	Common Name	BC Act	EPBC Act	Records
Flora				
<i>Acacia pubescens</i>	Downy Wattle	V	V	288
<i>Callistemon linearifolius</i>	Netted Bottle Brush	V	n/a	3
<i>Cryptostylis hunteriana</i>	Leafless Tongue Orchid	V	V	1
<i>Darwinia biflora</i>	n/a	V	V	121
<i>Dillwynia tenuifolia</i>	n/a	V	n/a	4
<i>Dillwynia tenuifolia</i>	Dillwynia tenuifolia Sieber ex D.C. in the Baulkham Hills local government area	E population	n/a	1
<i>Epacris purpurascens</i> var. <i>purpurascens</i>	n/a	V	n/a	198
<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	V	V	13
<i>Eucalyptus</i> sp. <i>Cattai</i>	n/a	CE	CE	211
<i>Galium australe</i>	Tangled Bedstraw	E	n/a	2
<i>Grammitis stenophylla</i>	Narrow-leaf Finger Fern	E	n/a	1
<i>Grevillea juniperina</i> subsp. <i>juniperina</i>	Juniper-leaved Grevillea	V	n/a	19
<i>Hibbertia puberula</i>	n/a	E	n/a	1
<i>Hibbertia spanantha</i>	Julian's Hibbertia	CE	CE	3
<i>Hibbertia superans</i>	n/a	E	n/a	50
<i>Lasiopetalum joyceae</i>	n/a	V	V	2
<i>Leucopogon fletcheri</i> subsp. <i>fletcheri</i>	n/a	E	n/a	2
<i>Macadamia integrifolia</i>	Macadamia Nut	n/a	V	13

Scientific Name	Common Name	BC Act	EPBC Act	Records
<i>Marsdenia viridiflora</i> subsp. <i>viridiflora</i>	Marsdenia viridiflora R. Br. subsp. viridiflora population in the Bankstown, Blacktown, Camden, Campbelltown, Fairfield, Holroyd, Liverpool and Penrith local government areas	E population	n/a	40
<i>Melaleuca deanei</i>	Deane's Paperbark	V	V	1
<i>Persicaria elatior</i>	Tall Knotweed	V	V	1
<i>Persoonia hirsuta</i>	Hairy Geebung	E	E	6
<i>Pimelea curviflora</i> var. <i>curviflora</i>	n/a	V	V	36
<i>Pimelea spicata</i>	Spiked Rice-flower	E	E	254
<i>Pomaderris prunifolia</i>	P. prunifolia in the Parramatta, Auburn, Strathfield and Bankstown Local Government Areas	E population	n/a	16
<i>Pterostylis saxicola</i>	Sydney Plains Greenhood	E	E	2
<i>Pultenaea parviflora</i>	n/a	E	V	2
<i>Pultenaea pedunculata</i>	Matted Bush-pea	E	n/a	1
<i>Rhodamnia rubescens</i>	Scrub Turpentine	CE	CE	3
<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	E	V	27
<i>Tetradlea glandulosa</i>	n/a	V	n/a	68
<i>Wahlenbergia multicaulis</i>	Tadgell's Bluebell in the local government areas of Auburn, Bankstown, Baulkham Hills, Canterbury, Hornsby, Parramatta and Strathfield	E population	n/a	43
<i>Wilsonia backhousei</i>	Narrow-leaved Wilsonia	V	n/a	23
<i>Zannichellia palustris</i>	n/a	E	n/a	6

Table 6-4. BioNet Atlas search results: threatened and migratory fauna

Scientific Name	Common Name	BC Act	EPBC Act	Records
Fauna				
Amphibians				
<i>Litoria aurea</i>	Green and Golden Bell Frog	E	V	10820
<i>Pseudophryne australis</i>	Red-crowned Toadlet	V	n/a	36
Birds				
<i>Actitis hypoleucos</i>	Common Sandpiper	n/a	C,J,K	50
<i>Anthochaera phrygia</i>	Regent Honeyeater	CE	CE	14
<i>Apus pacificus</i>	Fork-tailed Swift	n/a	C,J,K	12
<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	n/a	J	1

Scientific Name	Common Name	BC Act	EPBC Act	Records
<i>Arenaria interpres</i>	Ruddy Turnstone	n/a	C,J,K	3
<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	V	n/a	43
<i>Botaurus poiciloptilus</i>	Australasian Bittern	E	E	10
<i>Burhinus grallarius</i>	Bush Stone-curlew	E	n/a	1
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	n/a	C,J,K	722
<i>Calidris canutus</i>	Red Knot	n/a	E,C,J,K	8
<i>Calidris ferruginea</i>	Curlew Sandpiper	CE	CE,C,J,K	168
<i>Calidris melanotos</i>	Pectoral Sandpiper	n/a	J,K	33
<i>Calidris ruficollis</i>	Red-necked Stint	n/a	C,J,K	20
<i>Calidris tenuirostris</i>	Great Knot	V	V,C,J,K	1
<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	E	E	15
<i>Calyptorhynchus lathami lathami</i>	South-eastern Glossy Black-Cockatoo	V	V	11
<i>Chthonicola sagittata</i>	Speckled Warbler	V	n/a	4
<i>Circus assimilis</i>	Spotted Harrier	V	n/a	13
<i>Climacteris picumnus victoriae</i>	Brown Treecreeper (eastern subspecies)	V	V	2
<i>Cuculus optatus</i>	Oriental Cuckoo	n/a	C,J,K	1
<i>Daphoenositta chrysoptera</i>	Varied Sittella	V	n/a	19
<i>Epthianura albifrons</i>	White-fronted Chat population in the Sydney Metropolitan Catchment Management Area	E population	n/a	321
<i>Epthianura albifrons</i>	White-fronted Chat	V	n/a	321
<i>Falco subniger</i>	Black Falcon	V	n/a	1
<i>Gallinago hardwickii</i>	Latham's Snipe	V	V,J,K	1590
<i>Glossopsitta pusilla</i>	Little Lorikeet	V	n/a	53
<i>Haematopus longirostris</i>	Pied Oystercatcher	E	n/a	1
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	V	n/a	555
<i>Hieraaetus morphnoides</i>	Little Eagle	V	n/a	32
<i>Hirundapus caudacutus</i>	White-throated Needletail	V	V,C,J,K	68
<i>Hydroprogne caspia</i>	Caspian Tern	n/a	J	94
<i>Ixobrychus flavicollis</i>	Black Bittern	V	n/a	7
<i>Lathamus discolor</i>	Swift Parrot	E	CE	43
<i>Limicola falcinellus</i>	Broad-billed Sandpiper	V	C,J,K	1
<i>Limosa lapponica</i>	Bar-tailed Godwit	n/a	C,J,K	935
<i>Limosa limosa</i>	Black-tailed Godwit	V	E,C,J,K	1

Scientific Name	Common Name	BC Act	EPBC Act	Records
<i>Lophochroa leadbeateri</i>	Pink Cockatoo	V	E	1
<i>Lophoictinia isura</i>	Square-tailed Kite	V	n/a	8
<i>Motacilla flava</i>	Yellow Wagtail	n/a	C,J,K	3
<i>Neophema pulchella</i>	Turquoise Parrot	V	n/a	5
<i>Ninox connivens</i>	Barking Owl	V	n/a	9
<i>Ninox strenua</i>	Powerful Owl	V	n/a	803
<i>Numenius madagascariensis</i>	Eastern Curlew	n/a	CE,C,J,K	12
<i>Oxyura australis</i>	Blue-billed Duck	V	n/a	2
<i>Pandion cristatus</i>	Eastern Osprey	V	n/a	13
<i>Petroica boodang</i>	Scarlet Robin	V	n/a	6
<i>Petroica phoenicea</i>	Flame Robin	V	n/a	3
<i>Philomachus pugnax</i>	Ruff	n/a	C,J,K	1
<i>Pluvialis fulva</i>	Pacific Golden Plover	n/a	C,J,K	249
<i>Pluvialis squatarola</i>	Grey Plover	n/a	C,J,K	12
<i>Pycnoptilus floccosus</i>	Pilotbird	V	V	1
<i>Rostratula australis</i>	Australian Painted Snipe	E	E	9
<i>Sterna hirundo</i>	Common Tern	n/a	C,J,K	2
<i>Sternula albifrons</i>	Little Tern	E	C,J,K	2
<i>Stictonetta naevosa</i>	Freckled Duck	V	n/a	2
<i>Thalasseus bergii</i>	Crested Tern	n/a	J	24
<i>Tringa brevipes</i>	Grey-tailed Tattler	n/a	C,J,K	2
<i>Tringa glareola</i>	Wood Sandpiper	n/a	C,J,K	1
<i>Tringa nebularia</i>	Common Greenshank	n/a	C,J,K	23
<i>Tringa stagnatilis</i>	Marsh Sandpiper	n/a	C,J,K	26
<i>Tyto longimembris</i>	Eastern Grass Owl	V	n/a	1
<i>Tyto novaehollandiae</i>	Masked Owl	V	n/a	9
<i>Tyto tenebricosa</i>	Sooty Owl	V	n/a	1
<i>Xenus cinereus</i>	Terek Sandpiper	V	V,C,J,K	1
Gastropod				
<i>Meridolum corneovirens</i>	Cumberland Plain Land Snail	E	n/a	131
<i>Pommerhelix duralensis</i>	Dural Land Snail	E	E	138
Mammal				
<i>Cercartetus nanus</i>	Eastern Pygmy-possum	V	n/a	2

Scientific Name	Common Name	BC Act	EPBC Act	Records
<i>Chalinolobus dwyeri</i>	Large-eared Pied Bat	E	E	7
<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V	E	13
<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	V	n/a	56
<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	V	n/a	92
<i>Miniopterus australis</i>	Little Bent-winged Bat	V	n/a	42
<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	V	n/a	266
<i>Myotis macropus</i>	Southern Myotis	V	n/a	108
<i>Petauroides volans</i>	Southern Greater Glider	E	E	1
<i>Petaurus australis</i>	Yellow-bellied Glider	V	V	2
<i>Petaurus norfolcensis</i>	Squirrel Glider	V	n/a	2
<i>Phascolarctos cinereus</i>	Koala	E	E	16
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V	V	2000
<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tail-bat	V	n/a	47
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V	n/a	59
<i>Vespadelus troungtoni</i>	Eastern Cave Bat	V	n/a	2

Appendix C

PMST 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: 15-Oct-2024

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

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

World Heritage Properties:	1
National Heritage Places:	2
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	12
Listed Threatened Species:	107
Listed Migratory Species:	49

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the 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:	745
Commonwealth Heritage Places:	4
Listed Marine Species:	64
Whales and Other Cetaceans:	None
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:	4
Regional Forest Agreements:	None
Nationally Important Wetlands:	1
EPBC Act Referrals:	128
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	1
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

World Heritage Properties			[Resource Information]
Name	State	Legal Status	Buffer Status
Australian Convict Sites (Old Government House and Domain)	NSW	Declared property	In buffer area only

National Heritage Places			[Resource Information]
Name	State	Legal Status	Buffer Status
Historic			
Old Government House and the Government Domain	NSW	Listed place	In buffer area only
Parramatta Female Factory and Institutions Precinct	NSW	Listed place	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
Blue Gum High Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In buffer area only
Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion	Endangered	Community may occurIn 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 within area	In feature area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community may occurIn buffer area only within area	
Coastal Upland Swamps in the Sydney Basin Bioregion	Endangered	Community may occurIn buffer area only within area	
Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In feature area
Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest	Critically Endangered	Community likely to occur within area	In feature area
River-flat eucalypt forest on coastal floodplains of southern New South	Critically Endangered	Community likely to occur within area	In feature area

Community Name	Threatened Category	Presence Text	Buffer Status
Wales and eastern Victoria			
Shale Sandstone Transition Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In feature area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Turpentine-Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to 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 feature area
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	Species or species habitat 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	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	Species or species habitat known to occur within area	In buffer area only
Callocephalon fimbriatum Gang-gang Cockatoo [768]	Endangered	Species or species habitat known 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 may occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat 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 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 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
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 likely to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat 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	Species or species habitat known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
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 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
Pycnoptilus floccosus Pilotbird [525]	Vulnerable	Species or species habitat known 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
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	Species or species habitat may 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 bulleri platei Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
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
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
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 may occur within area	In buffer area only
FROG			

Scientific Name	Threatened Category	Presence Text	Buffer Status
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			
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
Isoodon obesulus obesulus Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Notamacropus parma Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area	In feature area
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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pseudomys novaehollandiae New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area
PLANT			
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575]	Vulnerable	Species or species habitat known to occur within area	In feature area
Acacia gordonii [5031]	Endangered	Species or species habitat may occur within area	In buffer area only
Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800]	Vulnerable	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
Asterolasia elegans [56780]	Endangered	Species or species habitat may 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 known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eucalyptus camfieldii Camfield's Stringybark [15460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Eucalyptus cryptica listed as Eucalyptus sp. Cattai (Gregson s.n., 28 Aug 1954) [93502]	Critically Endangered (listed as Eucalyptus sp. Cattai)	Species or species habitat known to occur within area	In buffer area only
Genoplesium baueri Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528]	Endangered	Species or species habitat known to occur within area	In feature area
Haloragodendron lucasii Hal [6480]	Endangered	Species or species habitat may occur within area	In buffer area only
Kunzea rupestris [8798]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Lasiopetalum joyceae [20311]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leptospermum deanei Deane's Tea-tree [21777]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leucopogon exolasius Woronora Beard-heath [14251]	Vulnerable	Species or species habitat may occur within area	In feature area
Melaleuca biconvexa Biconvex Paperbark [5583]	Vulnerable	Species or species habitat likely to 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
Micromyrtus blakelyi [6870]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
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 known to occur within area	In buffer area only
Persoonia mollis subsp. maxima [56075]	Endangered	Species or species habitat may occur within area	In buffer area only
Persoonia nutans Nodding Geebung [18119]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Pimelea curviflora var. curviflora [4182]	Vulnerable	Species or species habitat known to occur within area	In feature area
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 likely to occur within area	In feature area
Pterostylis gibbosa Illawarra Greenhood, Rufa Greenhood, Pouched Greenhood [4562]	Endangered	Species or species habitat may occur within area	In feature area
Pterostylis saxicola Sydney Plains Greenhood [64537]	Endangered	Species or species habitat likely to occur within area	In feature area
Pultenaea parviflora [19380]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Rhizanthella slateri Eastern Underground Orchid [11768]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
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
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Zieria involucrata [3087]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
REPTILE			
Aprasia parapulchella Pink-tailed Worm-lizard, Pink-tailed Legless Lizard [1665]	Vulnerable	Species or species habitat may 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
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 may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
SNAIL			
Pommerhelix duralensis Dural Land Snail [85268]	Endangered	Species or species habitat known to occur within area	In feature area
Listed Migratory Species		[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
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
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
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
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may 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
Migratory Marine Species			
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
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
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
Migratory Terrestrial Species			
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla flava Yellow Wagtail [644]		Species or species habitat likely 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	Species or species habitat known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]	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
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris pugnax as Philomachus pugnax Ruff [91256]		Species or species habitat known to occur within area	In buffer area only
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat 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
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	Species or species habitat 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 phaeopus Whimbrel [849]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Species or species habitat 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
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat 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
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Australian Wool Testing Authority Limited

Commonwealth Land - Australian Wool Testing Authority Limited [14537]	NSW	In buffer area only
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Commonwealth Bank of Australia

Commonwealth Land - Commonwealth Bank of Australia [13959]	NSW	In buffer area only
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Commonwealth Trading Bank of Australia

Commonwealth Land - Commonwealth Trading Bank of Australia [14503]	NSW	In buffer area only
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Communications, Information Technology and the Arts - Australian Postal Corporation

Commonwealth Land - Australian Postal Commission [14495]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [16363]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [13002]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [12995]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [14594]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [13022]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [13864]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [14504]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [16051]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [12997]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [14602]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [14274]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [15604]	NSW	In buffer area only
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Communications, Information Technology and the Arts - Telstra Corporation Limited

Commonwealth Land - Australian & Overseas Telecommunications Corporation [15900]	NSW	In buffer area only
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Commonwealth Land - Australian & Overseas Telecommunications Corporation [13000]	NSW	In buffer area only
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Commonwealth Land - Australian Telecommunications Commission [13014]	NSW	In buffer area only
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Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Telecommunications Commission [14600]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13951]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14494]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14496]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14276]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14278]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14597]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [15700]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [12999]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14529]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13018]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14598]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14599]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14252]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14601]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14596]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [12998]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14592]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16529]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13962]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Telstra Corporation Limited [14267]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16252]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16429]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14275]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [15669]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14617]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [12996]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14512]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14530]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13860]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14511]	NSW	In buffer area only
Defence		
Commonwealth Land - Defence Service Homes Corporation [13010]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13005]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13003]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14590]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14579]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14231]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14527]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14510]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14572]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14573]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14509]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14505]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14569]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14571]	NSW	In buffer area only
Defence - 1/15 RNSWL - LANCER BARRACKS - PARRAMATTA [11122]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - ADFRU PARRAMATTA [10242]	NSW	In buffer area only
Defence - BLACKTOWN TRAINING DEPOT [10178]	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 - HMAS NIRIMBA [10031]	NSW	In buffer area only
Defence - MERRYLANDS [10204]	NSW	In buffer area only
Defence - NEWINGTON [10472]	NSW	In buffer area only
Defence - NEWINGTON [10473]	NSW	In buffer area only
Defence - NEWINGTON [10271]	NSW	In buffer area only
Defence - NEWINGTON [10276]	NSW	In buffer area only
Defence - NEWINGTON [10470]	NSW	In buffer area only
Defence - NEWINGTON [10471]	NSW	In buffer area only
Defence - NEWINGTON [10478]	NSW	In buffer area only
Defence - NEWINGTON [10479]	NSW	In buffer area only
Defence - NEWINGTON [10267]	NSW	In buffer area only
Defence - NEWINGTON [10358]	NSW	In buffer area only
Defence - NEWINGTON [10264]	NSW	In buffer area only
Defence - NEWINGTON [10511]	NSW	In buffer area only
Defence - NEWINGTON [10512]	NSW	In buffer area only
Defence - NEWINGTON [10513]	NSW	In buffer area only
Defence - NEWINGTON [10263]	NSW	In buffer area only
Defence - NEWINGTON [10260]	NSW	In buffer area only
Defence - NEWINGTON [10261]	NSW	In buffer area only
Defence - NEWINGTON [10266]	NSW	In buffer area only
Defence - NEWINGTON [10456]	NSW	In buffer area only
Defence - NEWINGTON [10506]	NSW	In buffer area only
Defence - NEWINGTON [10505]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10504]	NSW	In buffer area only
Defence - NEWINGTON [10262]	NSW	In buffer area only
Defence - NEWINGTON [10515]	NSW	In buffer area only
Defence - NEWINGTON [10517]	NSW	In buffer area only
Defence - NEWINGTON [10311]	NSW	In buffer area only
Defence - NEWINGTON [10475]	NSW	In buffer area only
Defence - NEWINGTON [10476]	NSW	In buffer area only
Defence - NEWINGTON [10477]	NSW	In buffer area only
Defence - NEWINGTON [10921]	NSW	In buffer area only
Defence - NEWINGTON [10315]	NSW	In buffer area only
Defence - NEWINGTON [10314]	NSW	In buffer area only
Defence - NEWINGTON [10317]	NSW	In buffer area only
Defence - NEWINGTON [10316]	NSW	In buffer area only
Defence - NEWINGTON [10468]	NSW	In buffer area only
Defence - NEWINGTON [10501]	NSW	In buffer area only
Defence - NEWINGTON [10514]	NSW	In buffer area only
Defence - NEWINGTON [10500]	NSW	In buffer area only
Defence - NEWINGTON [10291]	NSW	In buffer area only
Defence - NEWINGTON [10503]	NSW	In buffer area only
Defence - NEWINGTON [10502]	NSW	In buffer area only
Defence - NEWINGTON [10297]	NSW	In buffer area only
Defence - NEWINGTON [10474]	NSW	In buffer area only
Defence - NEWINGTON [10462]	NSW	In buffer area only
Defence - NEWINGTON [10463]	NSW	In buffer area only
Defence - NEWINGTON [10460]	NSW	In buffer area only
Defence - NEWINGTON [10461]	NSW	In buffer area only
Defence - NEWINGTON [10508]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10808]	NSW	In buffer area only
Defence - NEWINGTON [10823]	NSW	In buffer area only
Defence - NEWINGTON [10822]	NSW	In buffer area only
Defence - NEWINGTON [10941]	NSW	In buffer area only
Defence - NEWINGTON [10942]	NSW	In buffer area only
Defence - NEWINGTON [10828]	NSW	In buffer area only
Defence - NEWINGTON [10940]	NSW	In buffer area only
Defence - NEWINGTON [10945]	NSW	In buffer area only
Defence - NEWINGTON [10946]	NSW	In buffer area only
Defence - NEWINGTON [10451]	NSW	In buffer area only
Defence - NEWINGTON [10449]	NSW	In buffer area only
Defence - NEWINGTON [10466]	NSW	In buffer area only
Defence - NEWINGTON [10809]	NSW	In buffer area only
Defence - NEWINGTON [10806]	NSW	In buffer area only
Defence - NEWINGTON [10807]	NSW	In buffer area only
Defence - NEWINGTON [10804]	NSW	In buffer area only
Defence - NEWINGTON [10805]	NSW	In buffer area only
Defence - NEWINGTON [10802]	NSW	In buffer area only
Defence - NEWINGTON [10803]	NSW	In buffer area only
Defence - NEWINGTON [10800]	NSW	In buffer area only
Defence - NEWINGTON [10801]	NSW	In buffer area only
Defence - NEWINGTON [10816]	NSW	In buffer area only
Defence - NEWINGTON [10819]	NSW	In buffer area only
Defence - NEWINGTON [10818]	NSW	In buffer area only
Defence - NEWINGTON [10954]	NSW	In buffer area only
Defence - NEWINGTON [10957]	NSW	In buffer area only
Defence - NEWINGTON [10272]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10273]	NSW	In buffer area only
Defence - NEWINGTON [10270]	NSW	In buffer area only
Defence - NEWINGTON [10949]	NSW	In buffer area only
Defence - NEWINGTON [10825]	NSW	In buffer area only
Defence - NEWINGTON [10824]	NSW	In buffer area only
Defence - NEWINGTON [10589]	NSW	In buffer area only
Defence - NEWINGTON [10821]	NSW	In buffer area only
Defence - NEWINGTON [10820]	NSW	In buffer area only
Defence - NEWINGTON [10827]	NSW	In buffer area only
Defence - NEWINGTON [10815]	NSW	In buffer area only
Defence - NEWINGTON [10560]	NSW	In buffer area only
Defence - NEWINGTON [10814]	NSW	In buffer area only
Defence - NEWINGTON [10583]	NSW	In buffer area only
Defence - NEWINGTON [10813]	NSW	In buffer area only
Defence - NEWINGTON [10812]	NSW	In buffer area only
Defence - NEWINGTON [10248]	NSW	In buffer area only
Defence - NEWINGTON [10587]	NSW	In buffer area only
Defence - NEWINGTON [10586]	NSW	In buffer area only
Defence - NEWINGTON [10582]	NSW	In buffer area only
Defence - NEWINGTON [10581]	NSW	In buffer area only
Defence - NEWINGTON [10265]	NSW	In buffer area only
Defence - NEWINGTON [10585]	NSW	In buffer area only
Defence - NEWINGTON [10584]	NSW	In buffer area only
Defence - NEWINGTON [10958]	NSW	In buffer area only
Defence - NEWINGTON [10810]	NSW	In buffer area only
Defence - NEWINGTON [10268]	NSW	In buffer area only
Defence - NEWINGTON [10269]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10609]	NSW	In buffer area only
Defence - NEWINGTON [10796]	NSW	In buffer area only
Defence - NEWINGTON [10386]	NSW	In buffer area only
Defence - NEWINGTON [10606]	NSW	In buffer area only
Defence - NEWINGTON [10385]	NSW	In buffer area only
Defence - NEWINGTON [10605]	NSW	In buffer area only
Defence - NEWINGTON [10566]	NSW	In buffer area only
Defence - NEWINGTON [10608]	NSW	In buffer area only
Defence - NEWINGTON [10387]	NSW	In buffer area only
Defence - NEWINGTON [10607]	NSW	In buffer area only
Defence - NEWINGTON [10384]	NSW	In buffer area only
Defence - NEWINGTON [10602]	NSW	In buffer area only
Defence - NEWINGTON [10565]	NSW	In buffer area only
Defence - NEWINGTON [10601]	NSW	In buffer area only
Defence - NEWINGTON [10588]	NSW	In buffer area only
Defence - NEWINGTON [10604]	NSW	In buffer area only
Defence - NEWINGTON [10603]	NSW	In buffer area only
Defence - NEWINGTON [10400]	NSW	In buffer area only
Defence - NEWINGTON [10402]	NSW	In buffer area only
Defence - NEWINGTON [10600]	NSW	In buffer area only
Defence - NEWINGTON [10403]	NSW	In buffer area only
Defence - NEWINGTON [10373]	NSW	In buffer area only
Defence - NEWINGTON [10372]	NSW	In buffer area only
Defence - NEWINGTON [10371]	NSW	In buffer area only
Defence - NEWINGTON [10370]	NSW	In buffer area only
Defence - NEWINGTON [10374]	NSW	In buffer area only
Defence - NEWINGTON [10319]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10931]	NSW	In buffer area only
Defence - NEWINGTON [10790]	NSW	In buffer area only
Defence - NEWINGTON [10464]	NSW	In buffer area only
Defence - NEWINGTON [10509]	NSW	In buffer area only
Defence - NEWINGTON [10465]	NSW	In buffer area only
Defence - NEWINGTON [10795]	NSW	In buffer area only
Defence - NEWINGTON [10794]	NSW	In buffer area only
Defence - NEWINGTON [10349]	NSW	In buffer area only
Defence - NEWINGTON [10348]	NSW	In buffer area only
Defence - NEWINGTON [10420]	NSW	In buffer area only
Defence - NEWINGTON [10341]	NSW	In buffer area only
Defence - NEWINGTON [10340]	NSW	In buffer area only
Defence - NEWINGTON [10343]	NSW	In buffer area only
Defence - NEWINGTON [10345]	NSW	In buffer area only
Defence - NEWINGTON [10342]	NSW	In buffer area only
Defence - NEWINGTON [10636]	NSW	In buffer area only
Defence - NEWINGTON [10637]	NSW	In buffer area only
Defence - NEWINGTON [10634]	NSW	In buffer area only
Defence - NEWINGTON [10635]	NSW	In buffer area only
Defence - NEWINGTON [10638]	NSW	In buffer area only
Defence - NEWINGTON [10639]	NSW	In buffer area only
Defence - NEWINGTON [10346]	NSW	In buffer area only
Defence - NEWINGTON [10347]	NSW	In buffer area only
Defence - NEWINGTON [10344]	NSW	In buffer area only
Defence - NEWINGTON [10631]	NSW	In buffer area only
Defence - NEWINGTON [10962]	NSW	In buffer area only
Defence - NEWINGTON [10521]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10969]	NSW	In buffer area only
Defence - NEWINGTON [10548]	NSW	In buffer area only
Defence - NEWINGTON [10964]	NSW	In buffer area only
Defence - NEWINGTON [10467]	NSW	In buffer area only
Defence - NEWINGTON [10632]	NSW	In buffer area only
Defence - NEWINGTON [10966]	NSW	In buffer area only
Defence - NEWINGTON [10549]	NSW	In buffer area only
Defence - NEWINGTON [10967]	NSW	In buffer area only
Defence - NEWINGTON [10633]	NSW	In buffer area only
Defence - NEWINGTON [10630]	NSW	In buffer area only
Defence - NEWINGTON [10648]	NSW	In buffer area only
Defence - NEWINGTON [10289]	NSW	In buffer area only
Defence - NEWINGTON [10649]	NSW	In buffer area only
Defence - NEWINGTON [10450]	NSW	In buffer area only
Defence - NEWINGTON [10893]	NSW	In buffer area only
Defence - NEWINGTON [10899]	NSW	In buffer area only
Defence - NEWINGTON [10455]	NSW	In buffer area only
Defence - NEWINGTON [11044]	NSW	In buffer area only
Defence - NEWINGTON [10968]	NSW	In buffer area only
Defence - NEWINGTON [10453]	NSW	In buffer area only
Defence - NEWINGTON [10510]	NSW	In buffer area only
Defence - NEWINGTON [10452]	NSW	In buffer area only
Defence - NEWINGTON [10457]	NSW	In buffer area only
Defence - NEWINGTON [10454]	NSW	In buffer area only
Defence - NEWINGTON [10895]	NSW	In buffer area only
Defence - NEWINGTON [10892]	NSW	In buffer area only
Defence - NEWINGTON [10518]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10894]	NSW	In buffer area only
Defence - NEWINGTON [10425]	NSW	In buffer area only
Defence - NEWINGTON [10426]	NSW	In buffer area only
Defence - NEWINGTON [10365]	NSW	In buffer area only
Defence - NEWINGTON [10423]	NSW	In buffer area only
Defence - NEWINGTON [10364]	NSW	In buffer area only
Defence - NEWINGTON [10424]	NSW	In buffer area only
Defence - NEWINGTON [10367]	NSW	In buffer area only
Defence - NEWINGTON [10788]	NSW	In buffer area only
Defence - NEWINGTON [10366]	NSW	In buffer area only
Defence - NEWINGTON [10422]	NSW	In buffer area only
Defence - NEWINGTON [10369]	NSW	In buffer area only
Defence - NEWINGTON [10368]	NSW	In buffer area only
Defence - NEWINGTON [10829]	NSW	In buffer area only
Defence - NEWINGTON [10469]	NSW	In buffer area only
Defence - NEWINGTON [10867]	NSW	In buffer area only
Defence - NEWINGTON [10866]	NSW	In buffer area only
Defence - NEWINGTON [10811]	NSW	In buffer area only
Defence - NEWINGTON [10481]	NSW	In buffer area only
Defence - NEWINGTON [10480]	NSW	In buffer area only
Defence - NEWINGTON [10427]	NSW	In buffer area only
Defence - NEWINGTON [10363]	NSW	In buffer area only
Defence - NEWINGTON [10362]	NSW	In buffer area only
Defence - NEWINGTON [10361]	NSW	In buffer area only
Defence - NEWINGTON [10360]	NSW	In buffer area only
Defence - NEWINGTON [10618]	NSW	In buffer area only
Defence - NEWINGTON [10619]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10614]	NSW	In buffer area only
Defence - NEWINGTON [10615]	NSW	In buffer area only
Defence - NEWINGTON [10613]	NSW	In buffer area only
Defence - NEWINGTON [10612]	NSW	In buffer area only
Defence - NEWINGTON [10617]	NSW	In buffer area only
Defence - NEWINGTON [10616]	NSW	In buffer area only
Defence - NEWINGTON [10758]	NSW	In buffer area only
Defence - NEWINGTON [10610]	NSW	In buffer area only
Defence - NEWINGTON [10756]	NSW	In buffer area only
Defence - NEWINGTON [10755]	NSW	In buffer area only
Defence - NEWINGTON [10310]	NSW	In buffer area only
Defence - NEWINGTON [10313]	NSW	In buffer area only
Defence - NEWINGTON [10312]	NSW	In buffer area only
Defence - NEWINGTON [10318]	NSW	In buffer area only
Defence - NEWINGTON [10759]	NSW	In buffer area only
Defence - NEWINGTON [10458]	NSW	In buffer area only
Defence - NEWINGTON [10780]	NSW	In buffer area only
Defence - NEWINGTON [10781]	NSW	In buffer area only
Defence - NEWINGTON [10399]	NSW	In buffer area only
Defence - NEWINGTON [11045]	NSW	In buffer area only
Defence - NEWINGTON [10792]	NSW	In buffer area only
Defence - NEWINGTON [10666]	NSW	In buffer area only
Defence - NEWINGTON [10667]	NSW	In buffer area only
Defence - NEWINGTON [10664]	NSW	In buffer area only
Defence - NEWINGTON [10662]	NSW	In buffer area only
Defence - NEWINGTON [10786]	NSW	In buffer area only
Defence - NEWINGTON [10665]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10789]	NSW	In buffer area only
Defence - NEWINGTON [10660]	NSW	In buffer area only
Defence - NEWINGTON [10663]	NSW	In buffer area only
Defence - NEWINGTON [10939]	NSW	In buffer area only
Defence - NEWINGTON [10428]	NSW	In buffer area only
Defence - NEWINGTON [10429]	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 [10287]	NSW	In buffer area only
Defence - NEWINGTON [10522]	NSW	In buffer area only
Defence - NEWINGTON [10523]	NSW	In buffer area only
Defence - NEWINGTON [10520]	NSW	In buffer area only
Defence - NEWINGTON [10528]	NSW	In buffer area only
Defence - NEWINGTON [10529]	NSW	In buffer area only
Defence - NEWINGTON [10393]	NSW	In buffer area only
Defence - NEWINGTON [10288]	NSW	In buffer area only
Defence - NEWINGTON [10396]	NSW	In buffer area only
Defence - NEWINGTON [10526]	NSW	In buffer area only
Defence - NEWINGTON [10397]	NSW	In buffer area only
Defence - NEWINGTON [10527]	NSW	In buffer area only
Defence - NEWINGTON [10524]	NSW	In buffer area only
Defence - NEWINGTON [10530]	NSW	In buffer area only
Defence - NEWINGTON [10395]	NSW	In buffer area only
Defence - NEWINGTON [10394]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10531]	NSW	In buffer area only
Defence - NEWINGTON [10398]	NSW	In buffer area only
Defence - NEWINGTON [10534]	NSW	In buffer area only
Defence - NEWINGTON [10860]	NSW	In buffer area only
Defence - NEWINGTON [10863]	NSW	In buffer area only
Defence - NEWINGTON [10869]	NSW	In buffer area only
Defence - NEWINGTON [10948]	NSW	In buffer area only
Defence - NEWINGTON [10888]	NSW	In buffer area only
Defence - NEWINGTON [10445]	NSW	In buffer area only
Defence - NEWINGTON [10793]	NSW	In buffer area only
Defence - NEWINGTON [10525]	NSW	In buffer area only
Defence - NEWINGTON [10799]	NSW	In buffer area only
Defence - NEWINGTON [10446]	NSW	In buffer area only
Defence - NEWINGTON [10798]	NSW	In buffer area only
Defence - NEWINGTON [10881]	NSW	In buffer area only
Defence - NEWINGTON [10797]	NSW	In buffer area only
Defence - NEWINGTON [10444]	NSW	In buffer area only
Defence - NEWINGTON [10447]	NSW	In buffer area only
Defence - NEWINGTON [10882]	NSW	In buffer area only
Defence - NEWINGTON [10596]	NSW	In buffer area only
Defence - NEWINGTON [10597]	NSW	In buffer area only
Defence - NEWINGTON [10448]	NSW	In buffer area only
Defence - NEWINGTON [10598]	NSW	In buffer area only
Defence - NEWINGTON [10883]	NSW	In buffer area only
Defence - NEWINGTON [10599]	NSW	In buffer area only
Defence - NEWINGTON [10791]	NSW	In buffer area only
Defence - NEWINGTON [10392]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10438]	NSW	In buffer area only
Defence - NEWINGTON [10433]	NSW	In buffer area only
Defence - NEWINGTON [10432]	NSW	In buffer area only
Defence - NEWINGTON [10431]	NSW	In buffer area only
Defence - NEWINGTON [10255]	NSW	In buffer area only
Defence - NEWINGTON [11058]	NSW	In buffer area only
Defence - NEWINGTON [10817]	NSW	In buffer area only
Defence - NEWINGTON [10439]	NSW	In buffer area only
Defence - NEWINGTON [10532]	NSW	In buffer area only
Defence - NEWINGTON [10251]	NSW	In buffer area only
Defence - NEWINGTON [10257]	NSW	In buffer area only
Defence - NEWINGTON [10415]	NSW	In buffer area only
Defence - NEWINGTON [10256]	NSW	In buffer area only
Defence - NEWINGTON [10430]	NSW	In buffer area only
Defence - NEWINGTON [10435]	NSW	In buffer area only
Defence - NEWINGTON [10253]	NSW	In buffer area only
Defence - NEWINGTON [10434]	NSW	In buffer area only
Defence - NEWINGTON [10419]	NSW	In buffer area only
Defence - NEWINGTON [10884]	NSW	In buffer area only
Defence - NEWINGTON [10412]	NSW	In buffer area only
Defence - NEWINGTON [10887]	NSW	In buffer area only
Defence - NEWINGTON [10413]	NSW	In buffer area only
Defence - NEWINGTON [10909]	NSW	In buffer area only
Defence - NEWINGTON [10410]	NSW	In buffer area only
Defence - NEWINGTON [10902]	NSW	In buffer area only
Defence - NEWINGTON [10411]	NSW	In buffer area only
Defence - NEWINGTON [10903]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10416]	NSW	In buffer area only
Defence - NEWINGTON [10904]	NSW	In buffer area only
Defence - NEWINGTON [10417]	NSW	In buffer area only
Defence - NEWINGTON [10905]	NSW	In buffer area only
Defence - NEWINGTON [10414]	NSW	In buffer area only
Defence - NEWINGTON [10507]	NSW	In buffer area only
Defence - NEWINGTON [10252]	NSW	In buffer area only
Defence - NEWINGTON [10418]	NSW	In buffer area only
Defence - NEWINGTON [10595]	NSW	In buffer area only
Defence - NEWINGTON [10594]	NSW	In buffer area only
Defence - NEWINGTON [10593]	NSW	In buffer area only
Defence - NEWINGTON [10592]	NSW	In buffer area only
Defence - NEWINGTON [10938]	NSW	In buffer area only
Defence - NEWINGTON [10590]	NSW	In buffer area only
Defence - NEWINGTON [10558]	NSW	In buffer area only
Defence - NEWINGTON [10489]	NSW	In buffer area only
Defence - NEWINGTON [10926]	NSW	In buffer area only
Defence - NEWINGTON [10922]	NSW	In buffer area only
Defence - NEWINGTON [10924]	NSW	In buffer area only
Defence - NEWINGTON [10912]	NSW	In buffer area only
Defence - NEWINGTON [10920]	NSW	In buffer area only
Defence - NEWINGTON [10913]	NSW	In buffer area only
Defence - NEWINGTON [10923]	NSW	In buffer area only
Defence - NEWINGTON [10917]	NSW	In buffer area only
Defence - NEWINGTON [11059]	NSW	In buffer area only
Defence - NEWINGTON [10910]	NSW	In buffer area only
Defence - NEWINGTON [10488]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10914]	NSW	In buffer area only
Defence - NEWINGTON [10915]	NSW	In buffer area only
Defence - NEWINGTON [10826]	NSW	In buffer area only
Defence - NEWINGTON [10516]	NSW	In buffer area only
Defence - NEWINGTON [10837]	NSW	In buffer area only
Defence - NEWINGTON [10836]	NSW	In buffer area only
Defence - NEWINGTON [10835]	NSW	In buffer area only
Defence - NEWINGTON [10244]	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 [10838]	NSW	In buffer area only
Defence - NEWINGTON [10933]	NSW	In buffer area only
Defence - NEWINGTON [10839]	NSW	In buffer area only
Defence - NEWINGTON [10833]	NSW	In buffer area only
Defence - NEWINGTON [10832]	NSW	In buffer area only
Defence - NEWINGTON [10834]	NSW	In buffer area only
Defence - NEWINGTON [10937]	NSW	In buffer area only
Defence - NEWINGTON [10934]	NSW	In buffer area only
Defence - NEWINGTON [10831]	NSW	In buffer area only
Defence - NEWINGTON [10830]	NSW	In buffer area only
Defence - NEWINGTON [10542]	NSW	In buffer area only
Defence - NEWINGTON [10543]	NSW	In buffer area only
Defence - NEWINGTON [10544]	NSW	In buffer area only
Defence - NEWINGTON [10545]	NSW	In buffer area only
Defence - NEWINGTON [10546]	NSW	In buffer area only
Defence - NEWINGTON [10845]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10927]	NSW	In buffer area only
Defence - NEWINGTON [10840]	NSW	In buffer area only
Defence - NEWINGTON [10841]	NSW	In buffer area only
Defence - NEWINGTON [10846]	NSW	In buffer area only
Defence - NEWINGTON [10844]	NSW	In buffer area only
Defence - NEWINGTON [10304]	NSW	In buffer area only
Defence - NEWINGTON [10307]	NSW	In buffer area only
Defence - NEWINGTON [10306]	NSW	In buffer area only
Defence - NEWINGTON [10301]	NSW	In buffer area only
Defence - NEWINGTON [10547]	NSW	In buffer area only
Defence - NEWINGTON [10571]	NSW	In buffer area only
Defence - NEWINGTON [10328]	NSW	In buffer area only
Defence - NEWINGTON [10274]	NSW	In buffer area only
Defence - NEWINGTON [10275]	NSW	In buffer area only
Defence - NEWINGTON [10324]	NSW	In buffer area only
Defence - NEWINGTON [10325]	NSW	In buffer area only
Defence - NEWINGTON [10329]	NSW	In buffer area only
Defence - NEWINGTON [10326]	NSW	In buffer area only
Defence - NEWINGTON [10564]	NSW	In buffer area only
Defence - NEWINGTON [10669]	NSW	In buffer area only
Defence - NEWINGTON [10668]	NSW	In buffer area only
Defence - NEWINGTON [10562]	NSW	In buffer area only
Defence - NEWINGTON [10661]	NSW	In buffer area only
Defence - NEWINGTON [10249]	NSW	In buffer area only
Defence - NEWINGTON [10563]	NSW	In buffer area only
Defence - NEWINGTON [10849]	NSW	In buffer area only
Defence - NEWINGTON [10561]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10848]	NSW	In buffer area only
Defence - NEWINGTON [10320]	NSW	In buffer area only
Defence - NEWINGTON [10327]	NSW	In buffer area only
Defence - NEWINGTON [10321]	NSW	In buffer area only
Defence - NEWINGTON [10322]	NSW	In buffer area only
Defence - NEWINGTON [10323]	NSW	In buffer area only
Defence - NEWINGTON [10437]	NSW	In buffer area only
Defence - NEWINGTON [10774]	NSW	In buffer area only
Defence - NEWINGTON [10775]	NSW	In buffer area only
Defence - NEWINGTON [10772]	NSW	In buffer area only
Defence - NEWINGTON [10773]	NSW	In buffer area only
Defence - NEWINGTON [10778]	NSW	In buffer area only
Defence - NEWINGTON [10779]	NSW	In buffer area only
Defence - NEWINGTON [10776]	NSW	In buffer area only
Defence - NEWINGTON [10777]	NSW	In buffer area only
Defence - NEWINGTON [10611]	NSW	In buffer area only
Defence - NEWINGTON [10308]	NSW	In buffer area only
Defence - NEWINGTON [10309]	NSW	In buffer area only
Defence - NEWINGTON [10305]	NSW	In buffer area only
Defence - NEWINGTON [10671]	NSW	In buffer area only
Defence - NEWINGTON [10670]	NSW	In buffer area only
Defence - NEWINGTON [10672]	NSW	In buffer area only
Defence - NEWINGTON [10383]	NSW	In buffer area only
Defence - NEWINGTON [10389]	NSW	In buffer area only
Defence - NEWINGTON [10388]	NSW	In buffer area only
Defence - NEWINGTON [10459]	NSW	In buffer area only
Defence - NEWINGTON [10770]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10951]	NSW	In buffer area only
Defence - NEWINGTON [10771]	NSW	In buffer area only
Defence - NEWINGTON [10850]	NSW	In buffer area only
Defence - NEWINGTON [10876]	NSW	In buffer area only
Defence - NEWINGTON [10857]	NSW	In buffer area only
Defence - NEWINGTON [10557]	NSW	In buffer area only
Defence - NEWINGTON [10872]	NSW	In buffer area only
Defence - NEWINGTON [11056]	NSW	In buffer area only
Defence - NEWINGTON [10875]	NSW	In buffer area only
Defence - NEWINGTON [11054]	NSW	In buffer area only
Defence - NEWINGTON [10874]	NSW	In buffer area only
Defence - NEWINGTON [10853]	NSW	In buffer area only
Defence - NEWINGTON [10259]	NSW	In buffer area only
Defence - NEWINGTON [10859]	NSW	In buffer area only
Defence - NEWINGTON [10554]	NSW	In buffer area only
Defence - NEWINGTON [10858]	NSW	In buffer area only
Defence - NEWINGTON [10556]	NSW	In buffer area only
Defence - NEWINGTON [10555]	NSW	In buffer area only
Defence - NEWINGTON [10550]	NSW	In buffer area only
Defence - NEWINGTON [10258]	NSW	In buffer area only
Defence - NEWINGTON [10552]	NSW	In buffer area only
Defence - NEWINGTON [10551]	NSW	In buffer area only
Defence - NEWINGTON [10553]	NSW	In buffer area only
Defence - NEWINGTON [10330]	NSW	In buffer area only
Defence - NEWINGTON [10332]	NSW	In buffer area only
Defence - NEWINGTON [10331]	NSW	In buffer area only
Defence - NEWINGTON [10337]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10334]	NSW	In buffer area only
Defence - NEWINGTON [10333]	NSW	In buffer area only
Defence - NEWINGTON [10336]	NSW	In buffer area only
Defence - NEWINGTON [10335]	NSW	In buffer area only
Defence - NEWINGTON [10654]	NSW	In buffer area only
Defence - NEWINGTON [10767]	NSW	In buffer area only
Defence - NEWINGTON [10653]	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 [10658]	NSW	In buffer area only
Defence - NEWINGTON [10657]	NSW	In buffer area only
Defence - NEWINGTON [10656]	NSW	In buffer area only
Defence - NEWINGTON [10761]	NSW	In buffer area only
Defence - NEWINGTON [10655]	NSW	In buffer area only
Defence - NEWINGTON [10760]	NSW	In buffer area only
Defence - NEWINGTON [10559]	NSW	In buffer area only
Defence - NEWINGTON [10659]	NSW	In buffer area only
Defence - NEWINGTON [10421]	NSW	In buffer area only
Defence - NEWINGTON [10483]	NSW	In buffer area only
Defence - NEWINGTON [10482]	NSW	In buffer area only
Defence - NEWINGTON [10768]	NSW	In buffer area only
Defence - NEWINGTON [10769]	NSW	In buffer area only
Defence - NEWINGTON [10485]	NSW	In buffer area only
Defence - NEWINGTON [10492]	NSW	In buffer area only
Defence - NEWINGTON [10487]	NSW	In buffer area only
Defence - NEWINGTON [10484]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10490]	NSW	In buffer area only
Defence - NEWINGTON [10493]	NSW	In buffer area only
Defence - NEWINGTON [10486]	NSW	In buffer area only
Defence - NEWINGTON [10491]	NSW	In buffer area only
Defence - NEWINGTON [10494]	NSW	In buffer area only
Defence - NEWINGTON [10650]	NSW	In buffer area only
Defence - NEWINGTON [10651]	NSW	In buffer area only
Defence - NEWINGTON [10652]	NSW	In buffer area only
Defence - NEWINGTON [10409]	NSW	In buffer area only
Defence - NEWINGTON [10644]	NSW	In buffer area only
Defence - NEWINGTON [10404]	NSW	In buffer area only
Defence - NEWINGTON [10405]	NSW	In buffer area only
Defence - NEWINGTON [10408]	NSW	In buffer area only
Defence - NEWINGTON [10647]	NSW	In buffer area only
Defence - NEWINGTON [10640]	NSW	In buffer area only
Defence - NEWINGTON [10338]	NSW	In buffer area only
Defence - NEWINGTON [10645]	NSW	In buffer area only
Defence - NEWINGTON [10339]	NSW	In buffer area only
Defence - NEWINGTON [10646]	NSW	In buffer area only
Defence - NEWINGTON [10763]	NSW	In buffer area only
Defence - NEWINGTON [10643]	NSW	In buffer area only
Defence - NEWINGTON [10642]	NSW	In buffer area only
Defence - NEWINGTON [10641]	NSW	In buffer area only
Defence - NEWINGTON [10407]	NSW	In buffer area only
Defence - NEWINGTON [10406]	NSW	In buffer area only
Defence - NEWINGTON [10401]	NSW	In buffer area only
Defence - NEWINGTON [10762]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10970]	NSW	In buffer area only
Defence - NEWINGTON [10973]	NSW	In buffer area only
Defence - NEWINGTON [10627]	NSW	In buffer area only
Defence - NEWINGTON [10624]	NSW	In buffer area only
Defence - NEWINGTON [10625]	NSW	In buffer area only
Defence - NEWINGTON [10972]	NSW	In buffer area only
Defence - NEWINGTON [10623]	NSW	In buffer area only
Defence - NEWINGTON [10620]	NSW	In buffer area only
Defence - NEWINGTON [10621]	NSW	In buffer area only
Defence - NEWINGTON [10626]	NSW	In buffer area only
Defence - NEWINGTON [10971]	NSW	In buffer area only
Defence - NEWINGTON [10533]	NSW	In buffer area only
Defence - NEWINGTON [10519]	NSW	In buffer area only
Defence - NEWINGTON [10622]	NSW	In buffer area only
Defence - NEWINGTON [10391]	NSW	In buffer area only
Defence - NEWINGTON [10629]	NSW	In buffer area only
Defence - NEWINGTON [10350]	NSW	In buffer area only
Defence - NEWINGTON [10351]	NSW	In buffer area only
Defence - NEWINGTON [10352]	NSW	In buffer area only
Defence - NEWINGTON [10390]	NSW	In buffer area only
Defence - NEWINGTON [10628]	NSW	In buffer area only
Defence - NEWINGTON [10535]	NSW	In buffer area only
Defence - NEWINGTON [10359]	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 - TIMOR BARRACKS - DUNDAS [11097]	NSW	In buffer area only
Defence - TIMOR BARRACKS - DUNDAS [11096]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - VILLAWOOD - MOTOR REPAIR W/SHP (VILLAWOOD GEMS BASE) [10231]	NSW	In buffer area only
Defence - Defence Housing Authority		
Commonwealth Land - Defence Housing Authority [13011]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13009]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16082]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13956]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13957]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14268]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14264]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14266]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14269]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14263]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14265]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14616]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15902]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14277]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14271]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14270]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14273]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14272]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13964]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13963]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13960]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13961]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15213]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16362]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [15602]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16013]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14615]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13007]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14239]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14238]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13006]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14234]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14235]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14236]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14237]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14591]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [12994]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14521]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14247]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14246]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14245]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14244]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14522]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14240]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14242]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14241]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14248]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14243]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14257]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14249]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [14255]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14256]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14258]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14259]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13008]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14250]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14251]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14253]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14254]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15739]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14493]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14497]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14492]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13887]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13886]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14499]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14568]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14498]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14427]	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 [14593]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [16563]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14595]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14233]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14232]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14580]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14581]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14584]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14582]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14583]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14589]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14585]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14586]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14587]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14588]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14519]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14518]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14513]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14534]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14531]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14533]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14520]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14532]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14525]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14524]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14526]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14528]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14523]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13862]	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 [13865]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13861]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14515]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14516]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14506]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14514]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14507]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14517]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14578]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14574]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14575]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14576]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14577]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14570]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14508]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14502]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14501]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14500]	NSW	In buffer area only
Education, Science and Training - CSIRO		
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14608]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14607]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14605]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14606]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14609]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14612]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14610]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14614]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14613]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14611]	NSW	In buffer area only
Treasury - Reserve Bank of Australia		
Commonwealth Land - Reserve Bank of Australia [13001]	NSW	In buffer area only
Unknown		
Commonwealth Land - [13016]	NSW	In buffer area only
Commonwealth Land - [13017]	NSW	In buffer area only
Commonwealth Land - [16472]	NSW	In buffer area only
Commonwealth Land - [15453]	NSW	In buffer area only
Commonwealth Land - [15891]	NSW	In buffer area only
Commonwealth Land - [13013]	NSW	In buffer area only
Commonwealth Land - [14538]	NSW	In buffer area only
Commonwealth Land - [16420]	NSW	In buffer area only

Commonwealth Heritage Places			[Resource Information]
Name	State	Status	Buffer Status
Historic			
Lancer Barracks	NSW	Listed place	In buffer area only
Lancer Barracks Precinct	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

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
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardenna grisea as Puffinus griseus			
Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within 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]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Species or species habitat 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
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat 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 may occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
Charadrius ruficapillus Red-capped Plover [881]		Species or species habitat 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
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Breeding known to occur within area	In feature area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Species or species habitat 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
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	Species or species habitat 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla flava Yellow Wagtail [644]		Species or species habitat likely 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 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 phaeopus Whimbrel [849]		Species or species habitat 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 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
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area overfly marine area	In buffer area only
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]		Migration route may occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
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 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
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]		Species or species habitat 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]		Species or species habitat known to occur within area overfly marine 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
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

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

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Berowra Valley	National Park	NSW	In buffer area only
Dural	Nature Reserve	NSW	In buffer area only
Newington	Nature Reserve	NSW	In buffer area only
Prospect	Nature Reserve	NSW	In buffer area only

Nationally Important Wetlands			[Resource Information]
Wetland Name		State	Buffer Status
Newington Wetlands		NSW	In buffer area only

EPBC Act Referrals					[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status	
Construction of three buildings in Parramatta Justice Precinct, Parramatta, NSW	2014/7330		Completed	In buffer area only	
Coonara Residential Development	2023/09508		Post-Approval	In buffer area only	
Parramatta Light Rail Stage 2	2022/09300		Post-Approval	In buffer area only	
Residential development, 35 Denis Winston Drive, Doonside, NSW	2018/8203		Referral Decision	In buffer area only	
Residential Development - 55 Coonara Avenue, West Pennant Hills NSW 2125	2021/8995		Completed	In buffer area only	
Southern Han commercial development, Hunter and Macquarie Sts, Parramatta, NSW	2014/7359		Assessment	In buffer area only	
Warragamba Dam Raising Project	2017/7940		Completed	In buffer area only	

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
418 Withers Road Subdivision of lot 1020 & 1022	2010/5578	Controlled Action	Post-Approval	In buffer area only
Commercial development, 132 Marsden Street, Parramatta, NSW	2019/8447	Controlled Action	Completed	In buffer area only
Conrad and Keirle Roads Residential Subdivision	2000/78	Controlled Action	Post-Approval	In buffer area only
Construct an integrated residential development, NSW	2013/6910	Controlled Action	Post-Approval	In buffer area only
Construction of a 15 storey office tower at the Parramatta Justice Precinct, Parramatta, NSW	2014/7161	Controlled Action	Completed	In buffer area only
Demolition of an existing building and construction of a new building 5-9 Hunter Street, Parramatta	2014/7334	Controlled Action	Further Information Request	In buffer area only
Glenwood Residential Subdivision	2000/77	Controlled Action	Post-Approval	In buffer area only
Increase in building height,29 Hunter Street, Old Government House precinct, Parramatta,NSW	2013/7063	Controlled Action	Completed	In buffer area only
Kellyville Precinct	2020/8828	Controlled Action	Post-Approval	In buffer area only
Lot 131 DP 2123, Rosebury Road, Kellyville, residential development	2003/1015	Controlled Action	Completed	In buffer area only
Lyn Parade Extension	2004/1392	Controlled Action	Post-Approval	In buffer area only
Modifications to V by Crown Development, Parramatta, NSW	2014/7331	Controlled Action	Post-Approval	In buffer area only
North West Rail Link	2012/6360	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
Residential Development	2013/6974	Controlled Action	Post-Approval	In buffer area only
Residential Development, Lots 13 & 14, Balmoral Road, Kellyville, NSW	2013/6884	Controlled Action	Post-Approval	In buffer area only
Residential Development/Lot 102 DP 830738 Conrad Road	2001/518	Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Residential Development of Lot 7 DP 270109 Eldon Green, West Pennant Hills	2010/5610	Controlled Action	Post-Approval	In buffer area only
Residential Development of Lot G and H	2000/114	Controlled Action	Post-Approval	In buffer area only
residential subdivision 5 residential allotments DP 270109	2005/2340	Controlled Action	Completed	In buffer area only
Service centre, 6 Honeman Close, Huntingwood, NSW	2018/8290	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
V by Crown - Mixed Use Development Project, Parramatta, NSW	2013/6803	Controlled Action	Post-Approval	In buffer area only
Western Sydney International Dragway	2002/720	Controlled Action	Completed	In buffer area only
Not controlled action				
14 residential lots on Lot 18 DP 1034206 & Lot 131 DP 2123, Rosebery Road	2005/2230	Not Controlled Action	Completed	In buffer area only
18-hole, golf course development, west of Eastern Creek	2004/1757	Not Controlled Action	Completed	In buffer area only
356 Old Windsor Road, development of six industrial allotments and retention of native bushland	2004/1465	Not Controlled Action	Completed	In feature area
Adaptive reuse of George Street Gatehouse, Parramatta Regional Park, NSW	2013/7015	Not Controlled Action	Completed	In buffer area only
Adaptive reuse of the Queens Road Gatehouse, Parramatta Park, NSW	2015/7602	Not Controlled Action	Completed	In buffer area only
Australia Post Site Rehabilitation	2002/609	Not Controlled Action	Completed	In buffer area only
Clearance of 6.3ha of Cumberland Plain Woodland for industrial subdivision cnr of Old Walgrove and W	2004/1445	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

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Concrete Batching Plant and Associated Facilities	2005/2067	Not Controlled Action	Completed	In buffer area only
Conrad Road Residential Subdivision	2001/320	Not Controlled Action	Completed	In feature area
construct access road and install underground water main	2005/2299	Not Controlled Action	Completed	In buffer area only
Construction and Operation of the Parramatta Rail Link - between Parramatta and	2002/673	Not Controlled Action	Completed	In buffer area only
Construction of a playing field and associated facilities	2004/1798	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
Decommissioning of the Australia Post Mail Distribution Centre	2002/612	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 a Retirement Village	2009/4746	Not Controlled Action	Completed	In buffer area only
Duplication of the single rail line between Quakers Hill & Vineyard	2009/4872	Not Controlled Action	Completed	In buffer area only
Electricity Substation at Old Wallgrove Road	2005/2220	Not Controlled Action	Completed	In buffer area only
Erection of a dwelling and associated access and infrastructure, 19 Tidswell Str	2003/1078	Not Controlled Action	Completed	In buffer area only
Former CSIRO Clunies Ross Research Station	2002/803	Not Controlled Action	Completed	In buffer area only
Fyfe Road, Rouse Hill Residential Subdivision	2002/831	Not Controlled Action	Completed	In buffer area only
Gardens Precinct Stage 1 landscaping works, Parramatta, NSW	2015/7443	Not Controlled Action	Completed	In buffer area only
gas main installation from Eastern Creek to Erskine Park	2005/2235	Not Controlled Action	Completed	In buffer area only
Georges River Program 2	2003/999	Not Controlled Action	Completed	In buffer area only
Green Valley NSW residential development	2003/1236	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Huntingwood Industrial Estate Development	2002/834	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 buffer area only
Library Building and Underground Car Park Development - Corner of Alpha Street n	2001/483	Not Controlled Action	Completed	In buffer area only
Lot 43 Fyfe Road Residential Subdivision	2002/838	Not Controlled Action	Completed	In buffer area only
Lots 24 & 25 Kierle Road Residential Subdivision, Kellyville	2001/335	Not Controlled Action	Completed	In buffer area only
M2 Motorway Upgrade	2010/5329	Not Controlled Action	Completed	In buffer area only
Mixed Used Residential Development	2012/6358	Not Controlled Action	Completed	In buffer area only
Mountain View Classrooms Construction	2001/306	Not Controlled Action	Completed	In feature area
No. 387 Blacktown Road Housing Development/EPBC 2000-92	2000/92	Not Controlled Action	Completed	In buffer area only
Northwest Transitways Project	2002/796	Not Controlled Action	Completed	In feature area
Overhead cover for heritage vehicles, Lancer Barracks, Parramatta	2018/8199	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
Parramatta North Urban Redevelopment Project, NSW	2014/7378	Not Controlled Action	Completed	In buffer area only
Precinct 9,Tallowood Hills Estate	2001/173	Not Controlled Action	Completed	In buffer area only
Proposed industrial Developments Bragham Drive, Eastern Creek	2012/6383	Not Controlled Action	Completed	In buffer area only
Proposed third rail track and associated infrastructure	2013/6760	Not Controlled Action	Completed	In buffer area only
Removal of Weeds & Native Vegetation Hannah Avenue	2006/2621	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Residential development, 28 Balmoral Road, Kellyville	2014/7145	Not Controlled Action	Completed	In buffer area only
residential development, Lalor Road and Stanbury Place	2002/892	Not Controlled Action	Completed	In buffer area only
Residential development at Doonside Crescent Woodcroft, Blacktown LGA	2004/1378	Not Controlled Action	Completed	In feature area
Residential Development Kellyville	2000/60	Not Controlled Action	Completed	In buffer area only
Residential development within 2.08ha, Fyfe Road	2005/1966	Not Controlled Action	Completed	In feature area
Residential Land Subdivision	2011/5963	Not Controlled Action	Completed	In buffer area only
Residential Land Subdivision-Fairway Drive Kellyville	2011/5910	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/316	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/375	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/304	Not Controlled Action	Completed	In feature area
Residential subdivision, cnr Doris Hirst Place and Highs Road	2005/2392	Not Controlled Action	Completed	In feature area
Residential Subdivision in Hampton Cr, Prospect, City of Blacktown	2008/3953	Not Controlled Action	Completed	In buffer area only
Residential subdivision Lot 1005 Conrad Road	2003/1054	Not Controlled Action	Completed	In feature area
Residential subdivision works, Spurway St, Ermington	2003/1130	Not Controlled Action	Completed	In buffer area only
Rezoning & Disposal of Quakers Hill property	2001/281	Not Controlled Action	Completed	In buffer area only
Riverside Parramatta mixed use development, NSW	2013/6929	Not Controlled Action	Completed	In buffer area only
Riverstone Integrated Water Services Proposal	2007/3216	Not Controlled Action	Completed	In buffer area only
Rouse Hill Infrastructure Project, Second Ponds Creek Area, Proposed Drainage Wo	2003/1258	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Second Ponds Creek urban development	2004/1905	Not Controlled Action	Completed	In buffer area only
Second Ponds Creek Urban Development of Precinct 1b	2005/1991	Not Controlled Action	Completed	In buffer area only
Seniors Living Precinct Memorial Avenue, Kellyville	2010/5601	Not Controlled Action	Completed	In buffer area only
Site remediation and waste disposal	2002/837	Not Controlled Action	Completed	In buffer area only
Stage 1 DA Estate Major Works, Westmead, NSW	2014/7395	Not Controlled Action	Completed	In buffer area only
Stormwater detention basin and road upgrade at Green Rd	2004/1695	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 buffer area only
Subdivision and sale of Commonwealth land in Pymble to Kuring-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
Subdivision of Residential Lands, Greystanes Estate, western Sydney	2001/499	Not Controlled Action	Completed	In buffer area only
Sydney Metro Network Stage 2	2010/5307	Not Controlled Action	Completed	In buffer area only
The North Kellyville Water Related Services Project	2007/3784	Not Controlled Action	Completed	In buffer area only
The Paddocks Precinct Upgrade, Parramatta Park, Parramatta, NSW	2014/7278	Not Controlled Action	Completed	In buffer area only
Tree Removal Under 10/50 Vegetation Clearance, 10B Dalkeith Rd, Cherrybrook, NSW	2014/7337	Not Controlled Action	Completed	In buffer area only
Upgrade of the Crescent Precinct in Parramatta Park Stage 1	2013/7011	Not Controlled Action	Completed	In buffer area only
Urban Development- Lots 7 & 8 Curtis Road	2011/6028	Not Controlled Action	Completed	In buffer area only
Wastewater Lead-Out Line Lot 6- DP 1004614 Kellyville	2001/360	Not Controlled Action	Completed	In buffer area only
Western Sydney Parklands Bungaribbee Precinct and Doonside residential developm	2007/3718	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Western Sydney Stadium Project, NSW	2016/7739	Not Controlled Action	Completed	In buffer area only
Western Sydney University Hassall St Precinct, Parramatta, NSW	2019/8489	Not Controlled Action	Completed	In buffer area only
Westfield Parramatta Commercial Extension - Stage 2	2013/6783	Not Controlled Action	Completed	In buffer area only
Westfield Parramatta Retail Extension - Stage 1	2013/6782	Not Controlled Action	Completed	In buffer area only
Wonderland Business Park Precinct, Stage 1, Lot D1	2004/1626	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
23 Residential lots on Lot 15 of Lot 18 DP 1034206 & Lot 131 DP 2123, Rosebery Road	2005/2229	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Commercial development, 2 Macquarie Street, Parramatta, NSW	2014/7405	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Replacement of flows with recycled water	2006/3050	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Residential Subdivision of Lot 60 Baulkham Hills Shire	2001/431	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Rouse Hill sewer carrier and water mains	2003/1059	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				
Mixed Use Residential Development	2011/6166	Referral Decision	Completed	In buffer area only
Modification to Mixed Use Development at 45-47 Macquarie Street, Parramatta, NSW	2012/6607	Referral Decision	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Referral decision				
Residential subdivision Lot 8 in DP 220102	2010/5765	Referral Decision	Completed	In buffer area only
Westfield Parramatta Extension, NSW	2012/6657	Referral Decision	Completed	In buffer area only

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

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

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Appendix D

Vegetation mapping



Figure 4. State Vegetation Type mapping.

Appendix E

Site photographs



Photo 1. Groundcover of mown and managed native and non-native grasses (image 1)



Photo 2. Planted *Corymbia citriodora* and *Acacia parramattensis*, on the eastern fence of the project site



Photo 3. Planted *Photinia glabra* vegetation on the northern side of the project site



Photo 4. Planted *Banksia integrifolia*, *Lophostemon confertus*, and *Leptospermum* sp. south of the existing substation



Photo 5. Groundcover of mown and managed native and non-native grasses (image 2)

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Appendix C

PMST 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: 15-Oct-2024

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

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

World Heritage Properties:	1
National Heritage Places:	2
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	12
Listed Threatened Species:	107
Listed Migratory Species:	49

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the 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:	745
Commonwealth Heritage Places:	4
Listed Marine Species:	64
Whales and Other Cetaceans:	None
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:	4
Regional Forest Agreements:	None
Nationally Important Wetlands:	1
EPBC Act Referrals:	128
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	1
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

World Heritage Properties			[Resource Information]
Name	State	Legal Status	Buffer Status
Australian Convict Sites (Old Government House and Domain)	NSW	Declared property	In buffer area only

National Heritage Places			[Resource Information]
Name	State	Legal Status	Buffer Status
Historic			
Old Government House and the Government Domain	NSW	Listed place	In buffer area only
Parramatta Female Factory and Institutions Precinct	NSW	Listed place	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
Blue Gum High Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In buffer area only
Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion	Endangered	Community may occurIn 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 within area	In feature area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community may occurIn buffer area only within area	
Coastal Upland Swamps in the Sydney Basin Bioregion	Endangered	Community may occurIn buffer area only within area	
Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In feature area
Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest	Critically Endangered	Community likely to occur within area	In feature area
River-flat eucalypt forest on coastal floodplains of southern New South	Critically Endangered	Community likely to occur within area	In feature area

Community Name	Threatened Category	Presence Text	Buffer Status
Wales and eastern Victoria			
Shale Sandstone Transition Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to occur within area	In feature area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Turpentine-Ironbark Forest of the Sydney Basin Bioregion	Critically Endangered	Community likely to 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 feature area
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	Species or species habitat 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	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	Species or species habitat known to occur within area	In buffer area only
Callocephalon fimbriatum Gang-gang Cockatoo [768]	Endangered	Species or species habitat known 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 may occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat 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 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 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
Erythrotriorchis 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
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 likely to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat 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	Species or species habitat known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
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 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
Pycnoptilus floccosus Pilotbird [525]	Vulnerable	Species or species habitat known 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
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	Species or species habitat may 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 bulleri platei Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
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
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
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 may occur within area	In buffer area only
FROG			

Scientific Name	Threatened Category	Presence Text	Buffer Status
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			
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
Isoodon obesulus obesulus Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Notamacropus parma Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area	In feature area
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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pseudomys novaehollandiae New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area
PLANT			
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575]	Vulnerable	Species or species habitat known to occur within area	In feature area
Acacia gordonii [5031]	Endangered	Species or species habitat may occur within area	In buffer area only
Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800]	Vulnerable	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
Asterolasia elegans [56780]	Endangered	Species or species habitat may 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 known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eucalyptus camfieldii Camfield's Stringybark [15460]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Eucalyptus cryptica listed as Eucalyptus sp. Cattai (Gregson s.n., 28 Aug 1954) [93502]	Critically Endangered (listed as Eucalyptus sp. Cattai)	Species or species habitat known to occur within area	In buffer area only
Genoplesium baueri Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528]	Endangered	Species or species habitat known to occur within area	In feature area
Haloragodendron lucasii Hal [6480]	Endangered	Species or species habitat may occur within area	In buffer area only
Kunzea rupestris [8798]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Lasiopetalum joyceae [20311]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leptospermum deanei Deane's Tea-tree [21777]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leucopogon exolasius Woronora Beard-heath [14251]	Vulnerable	Species or species habitat may occur within area	In feature area
Melaleuca biconvexa Biconvex Paperbark [5583]	Vulnerable	Species or species habitat likely to 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
Micromyrtus blakelyi [6870]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
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 known to occur within area	In buffer area only
Persoonia mollis subsp. maxima [56075]	Endangered	Species or species habitat may occur within area	In buffer area only
Persoonia nutans Nodding Geebung [18119]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Pimelea curviflora var. curviflora [4182]	Vulnerable	Species or species habitat known to occur within area	In feature area
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 likely to occur within area	In feature area
Pterostylis gibbosa Illawarra Greenhood, Rufa Greenhood, Pouched Greenhood [4562]	Endangered	Species or species habitat may occur within area	In feature area
Pterostylis saxicola Sydney Plains Greenhood [64537]	Endangered	Species or species habitat likely to occur within area	In feature area
Pultenaea parviflora [19380]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Rhizanthella slateri Eastern Underground Orchid [11768]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
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
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Zieria involucrata [3087]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
REPTILE			
Aprasia parapulchella Pink-tailed Worm-lizard, Pink-tailed Legless Lizard [1665]	Vulnerable	Species or species habitat may 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
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 may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
SNAIL			
Pommerhelix duralensis Dural Land Snail [85268]	Endangered	Species or species habitat known to occur within area	In feature area
Listed Migratory Species		[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
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
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
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
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may 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
Migratory Marine Species			
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
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
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
Migratory Terrestrial Species			
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla flava Yellow Wagtail [644]		Species or species habitat likely 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	Species or species habitat known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]	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
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris pugnax as Philomachus pugnax Ruff [91256]		Species or species habitat known to occur within area	In buffer area only
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat 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
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	Species or species habitat 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 phaeopus Whimbrel [849]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Species or species habitat 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
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat 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
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Australian Wool Testing Authority Limited

Commonwealth Land - Australian Wool Testing Authority Limited [14537]	NSW	In buffer area only
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Commonwealth Bank of Australia

Commonwealth Land - Commonwealth Bank of Australia [13959]	NSW	In buffer area only
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Commonwealth Trading Bank of Australia

Commonwealth Land - Commonwealth Trading Bank of Australia [14503]	NSW	In buffer area only
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Communications, Information Technology and the Arts - Australian Postal Corporation

Commonwealth Land - Australian Postal Commission [14495]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [16363]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [13002]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [12995]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [14594]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [13022]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [13864]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Commission [14504]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [16051]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [12997]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [14602]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [14274]	NSW	In buffer area only
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Commonwealth Land - Australian Postal Corporation [15604]	NSW	In buffer area only
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Communications, Information Technology and the Arts - Telstra Corporation Limited

Commonwealth Land - Australian & Overseas Telecommunications Corporation [15900]	NSW	In buffer area only
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Commonwealth Land - Australian & Overseas Telecommunications Corporation [13000]	NSW	In buffer area only
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Commonwealth Land - Australian Telecommunications Commission [13014]	NSW	In buffer area only
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Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Telecommunications Commission [14600]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13951]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14494]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14496]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14276]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14278]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14597]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [15700]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [12999]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14529]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13018]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14598]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14599]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14252]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14601]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14596]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [12998]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14592]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16529]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13962]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Telstra Corporation Limited [14267]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16252]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [16429]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14275]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [15669]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14617]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [12996]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14512]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14530]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13860]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14511]	NSW	In buffer area only
Defence		
Commonwealth Land - Defence Service Homes Corporation [13010]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13005]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13003]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14590]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14579]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14231]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14527]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14510]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14572]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14573]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14509]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14505]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14569]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [14571]	NSW	In buffer area only
Defence - 1/15 RNSWL - LANCER BARRACKS - PARRAMATTA [11122]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - ADFRU PARRAMATTA [10242]	NSW	In buffer area only
Defence - BLACKTOWN TRAINING DEPOT [10178]	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 - HMAS NIRIMBA [10031]	NSW	In buffer area only
Defence - MERRYLANDS [10204]	NSW	In buffer area only
Defence - NEWINGTON [10472]	NSW	In buffer area only
Defence - NEWINGTON [10473]	NSW	In buffer area only
Defence - NEWINGTON [10271]	NSW	In buffer area only
Defence - NEWINGTON [10276]	NSW	In buffer area only
Defence - NEWINGTON [10470]	NSW	In buffer area only
Defence - NEWINGTON [10471]	NSW	In buffer area only
Defence - NEWINGTON [10478]	NSW	In buffer area only
Defence - NEWINGTON [10479]	NSW	In buffer area only
Defence - NEWINGTON [10267]	NSW	In buffer area only
Defence - NEWINGTON [10358]	NSW	In buffer area only
Defence - NEWINGTON [10264]	NSW	In buffer area only
Defence - NEWINGTON [10511]	NSW	In buffer area only
Defence - NEWINGTON [10512]	NSW	In buffer area only
Defence - NEWINGTON [10513]	NSW	In buffer area only
Defence - NEWINGTON [10263]	NSW	In buffer area only
Defence - NEWINGTON [10260]	NSW	In buffer area only
Defence - NEWINGTON [10261]	NSW	In buffer area only
Defence - NEWINGTON [10266]	NSW	In buffer area only
Defence - NEWINGTON [10456]	NSW	In buffer area only
Defence - NEWINGTON [10506]	NSW	In buffer area only
Defence - NEWINGTON [10505]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10504]	NSW	In buffer area only
Defence - NEWINGTON [10262]	NSW	In buffer area only
Defence - NEWINGTON [10515]	NSW	In buffer area only
Defence - NEWINGTON [10517]	NSW	In buffer area only
Defence - NEWINGTON [10311]	NSW	In buffer area only
Defence - NEWINGTON [10475]	NSW	In buffer area only
Defence - NEWINGTON [10476]	NSW	In buffer area only
Defence - NEWINGTON [10477]	NSW	In buffer area only
Defence - NEWINGTON [10921]	NSW	In buffer area only
Defence - NEWINGTON [10315]	NSW	In buffer area only
Defence - NEWINGTON [10314]	NSW	In buffer area only
Defence - NEWINGTON [10317]	NSW	In buffer area only
Defence - NEWINGTON [10316]	NSW	In buffer area only
Defence - NEWINGTON [10468]	NSW	In buffer area only
Defence - NEWINGTON [10501]	NSW	In buffer area only
Defence - NEWINGTON [10514]	NSW	In buffer area only
Defence - NEWINGTON [10500]	NSW	In buffer area only
Defence - NEWINGTON [10291]	NSW	In buffer area only
Defence - NEWINGTON [10503]	NSW	In buffer area only
Defence - NEWINGTON [10502]	NSW	In buffer area only
Defence - NEWINGTON [10297]	NSW	In buffer area only
Defence - NEWINGTON [10474]	NSW	In buffer area only
Defence - NEWINGTON [10462]	NSW	In buffer area only
Defence - NEWINGTON [10463]	NSW	In buffer area only
Defence - NEWINGTON [10460]	NSW	In buffer area only
Defence - NEWINGTON [10461]	NSW	In buffer area only
Defence - NEWINGTON [10508]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10808]	NSW	In buffer area only
Defence - NEWINGTON [10823]	NSW	In buffer area only
Defence - NEWINGTON [10822]	NSW	In buffer area only
Defence - NEWINGTON [10941]	NSW	In buffer area only
Defence - NEWINGTON [10942]	NSW	In buffer area only
Defence - NEWINGTON [10828]	NSW	In buffer area only
Defence - NEWINGTON [10940]	NSW	In buffer area only
Defence - NEWINGTON [10945]	NSW	In buffer area only
Defence - NEWINGTON [10946]	NSW	In buffer area only
Defence - NEWINGTON [10451]	NSW	In buffer area only
Defence - NEWINGTON [10449]	NSW	In buffer area only
Defence - NEWINGTON [10466]	NSW	In buffer area only
Defence - NEWINGTON [10809]	NSW	In buffer area only
Defence - NEWINGTON [10806]	NSW	In buffer area only
Defence - NEWINGTON [10807]	NSW	In buffer area only
Defence - NEWINGTON [10804]	NSW	In buffer area only
Defence - NEWINGTON [10805]	NSW	In buffer area only
Defence - NEWINGTON [10802]	NSW	In buffer area only
Defence - NEWINGTON [10803]	NSW	In buffer area only
Defence - NEWINGTON [10800]	NSW	In buffer area only
Defence - NEWINGTON [10801]	NSW	In buffer area only
Defence - NEWINGTON [10816]	NSW	In buffer area only
Defence - NEWINGTON [10819]	NSW	In buffer area only
Defence - NEWINGTON [10818]	NSW	In buffer area only
Defence - NEWINGTON [10954]	NSW	In buffer area only
Defence - NEWINGTON [10957]	NSW	In buffer area only
Defence - NEWINGTON [10272]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10273]	NSW	In buffer area only
Defence - NEWINGTON [10270]	NSW	In buffer area only
Defence - NEWINGTON [10949]	NSW	In buffer area only
Defence - NEWINGTON [10825]	NSW	In buffer area only
Defence - NEWINGTON [10824]	NSW	In buffer area only
Defence - NEWINGTON [10589]	NSW	In buffer area only
Defence - NEWINGTON [10821]	NSW	In buffer area only
Defence - NEWINGTON [10820]	NSW	In buffer area only
Defence - NEWINGTON [10827]	NSW	In buffer area only
Defence - NEWINGTON [10815]	NSW	In buffer area only
Defence - NEWINGTON [10560]	NSW	In buffer area only
Defence - NEWINGTON [10814]	NSW	In buffer area only
Defence - NEWINGTON [10583]	NSW	In buffer area only
Defence - NEWINGTON [10813]	NSW	In buffer area only
Defence - NEWINGTON [10812]	NSW	In buffer area only
Defence - NEWINGTON [10248]	NSW	In buffer area only
Defence - NEWINGTON [10587]	NSW	In buffer area only
Defence - NEWINGTON [10586]	NSW	In buffer area only
Defence - NEWINGTON [10582]	NSW	In buffer area only
Defence - NEWINGTON [10581]	NSW	In buffer area only
Defence - NEWINGTON [10265]	NSW	In buffer area only
Defence - NEWINGTON [10585]	NSW	In buffer area only
Defence - NEWINGTON [10584]	NSW	In buffer area only
Defence - NEWINGTON [10958]	NSW	In buffer area only
Defence - NEWINGTON [10810]	NSW	In buffer area only
Defence - NEWINGTON [10268]	NSW	In buffer area only
Defence - NEWINGTON [10269]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10609]	NSW	In buffer area only
Defence - NEWINGTON [10796]	NSW	In buffer area only
Defence - NEWINGTON [10386]	NSW	In buffer area only
Defence - NEWINGTON [10606]	NSW	In buffer area only
Defence - NEWINGTON [10385]	NSW	In buffer area only
Defence - NEWINGTON [10605]	NSW	In buffer area only
Defence - NEWINGTON [10566]	NSW	In buffer area only
Defence - NEWINGTON [10608]	NSW	In buffer area only
Defence - NEWINGTON [10387]	NSW	In buffer area only
Defence - NEWINGTON [10607]	NSW	In buffer area only
Defence - NEWINGTON [10384]	NSW	In buffer area only
Defence - NEWINGTON [10602]	NSW	In buffer area only
Defence - NEWINGTON [10565]	NSW	In buffer area only
Defence - NEWINGTON [10601]	NSW	In buffer area only
Defence - NEWINGTON [10588]	NSW	In buffer area only
Defence - NEWINGTON [10604]	NSW	In buffer area only
Defence - NEWINGTON [10603]	NSW	In buffer area only
Defence - NEWINGTON [10400]	NSW	In buffer area only
Defence - NEWINGTON [10402]	NSW	In buffer area only
Defence - NEWINGTON [10600]	NSW	In buffer area only
Defence - NEWINGTON [10403]	NSW	In buffer area only
Defence - NEWINGTON [10373]	NSW	In buffer area only
Defence - NEWINGTON [10372]	NSW	In buffer area only
Defence - NEWINGTON [10371]	NSW	In buffer area only
Defence - NEWINGTON [10370]	NSW	In buffer area only
Defence - NEWINGTON [10374]	NSW	In buffer area only
Defence - NEWINGTON [10319]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10931]	NSW	In buffer area only
Defence - NEWINGTON [10790]	NSW	In buffer area only
Defence - NEWINGTON [10464]	NSW	In buffer area only
Defence - NEWINGTON [10509]	NSW	In buffer area only
Defence - NEWINGTON [10465]	NSW	In buffer area only
Defence - NEWINGTON [10795]	NSW	In buffer area only
Defence - NEWINGTON [10794]	NSW	In buffer area only
Defence - NEWINGTON [10349]	NSW	In buffer area only
Defence - NEWINGTON [10348]	NSW	In buffer area only
Defence - NEWINGTON [10420]	NSW	In buffer area only
Defence - NEWINGTON [10341]	NSW	In buffer area only
Defence - NEWINGTON [10340]	NSW	In buffer area only
Defence - NEWINGTON [10343]	NSW	In buffer area only
Defence - NEWINGTON [10345]	NSW	In buffer area only
Defence - NEWINGTON [10342]	NSW	In buffer area only
Defence - NEWINGTON [10636]	NSW	In buffer area only
Defence - NEWINGTON [10637]	NSW	In buffer area only
Defence - NEWINGTON [10634]	NSW	In buffer area only
Defence - NEWINGTON [10635]	NSW	In buffer area only
Defence - NEWINGTON [10638]	NSW	In buffer area only
Defence - NEWINGTON [10639]	NSW	In buffer area only
Defence - NEWINGTON [10346]	NSW	In buffer area only
Defence - NEWINGTON [10347]	NSW	In buffer area only
Defence - NEWINGTON [10344]	NSW	In buffer area only
Defence - NEWINGTON [10631]	NSW	In buffer area only
Defence - NEWINGTON [10962]	NSW	In buffer area only
Defence - NEWINGTON [10521]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10969]	NSW	In buffer area only
Defence - NEWINGTON [10548]	NSW	In buffer area only
Defence - NEWINGTON [10964]	NSW	In buffer area only
Defence - NEWINGTON [10467]	NSW	In buffer area only
Defence - NEWINGTON [10632]	NSW	In buffer area only
Defence - NEWINGTON [10966]	NSW	In buffer area only
Defence - NEWINGTON [10549]	NSW	In buffer area only
Defence - NEWINGTON [10967]	NSW	In buffer area only
Defence - NEWINGTON [10633]	NSW	In buffer area only
Defence - NEWINGTON [10630]	NSW	In buffer area only
Defence - NEWINGTON [10648]	NSW	In buffer area only
Defence - NEWINGTON [10289]	NSW	In buffer area only
Defence - NEWINGTON [10649]	NSW	In buffer area only
Defence - NEWINGTON [10450]	NSW	In buffer area only
Defence - NEWINGTON [10893]	NSW	In buffer area only
Defence - NEWINGTON [10899]	NSW	In buffer area only
Defence - NEWINGTON [10455]	NSW	In buffer area only
Defence - NEWINGTON [11044]	NSW	In buffer area only
Defence - NEWINGTON [10968]	NSW	In buffer area only
Defence - NEWINGTON [10453]	NSW	In buffer area only
Defence - NEWINGTON [10510]	NSW	In buffer area only
Defence - NEWINGTON [10452]	NSW	In buffer area only
Defence - NEWINGTON [10457]	NSW	In buffer area only
Defence - NEWINGTON [10454]	NSW	In buffer area only
Defence - NEWINGTON [10895]	NSW	In buffer area only
Defence - NEWINGTON [10892]	NSW	In buffer area only
Defence - NEWINGTON [10518]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10894]	NSW	In buffer area only
Defence - NEWINGTON [10425]	NSW	In buffer area only
Defence - NEWINGTON [10426]	NSW	In buffer area only
Defence - NEWINGTON [10365]	NSW	In buffer area only
Defence - NEWINGTON [10423]	NSW	In buffer area only
Defence - NEWINGTON [10364]	NSW	In buffer area only
Defence - NEWINGTON [10424]	NSW	In buffer area only
Defence - NEWINGTON [10367]	NSW	In buffer area only
Defence - NEWINGTON [10788]	NSW	In buffer area only
Defence - NEWINGTON [10366]	NSW	In buffer area only
Defence - NEWINGTON [10422]	NSW	In buffer area only
Defence - NEWINGTON [10369]	NSW	In buffer area only
Defence - NEWINGTON [10368]	NSW	In buffer area only
Defence - NEWINGTON [10829]	NSW	In buffer area only
Defence - NEWINGTON [10469]	NSW	In buffer area only
Defence - NEWINGTON [10867]	NSW	In buffer area only
Defence - NEWINGTON [10866]	NSW	In buffer area only
Defence - NEWINGTON [10811]	NSW	In buffer area only
Defence - NEWINGTON [10481]	NSW	In buffer area only
Defence - NEWINGTON [10480]	NSW	In buffer area only
Defence - NEWINGTON [10427]	NSW	In buffer area only
Defence - NEWINGTON [10363]	NSW	In buffer area only
Defence - NEWINGTON [10362]	NSW	In buffer area only
Defence - NEWINGTON [10361]	NSW	In buffer area only
Defence - NEWINGTON [10360]	NSW	In buffer area only
Defence - NEWINGTON [10618]	NSW	In buffer area only
Defence - NEWINGTON [10619]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10614]	NSW	In buffer area only
Defence - NEWINGTON [10615]	NSW	In buffer area only
Defence - NEWINGTON [10613]	NSW	In buffer area only
Defence - NEWINGTON [10612]	NSW	In buffer area only
Defence - NEWINGTON [10617]	NSW	In buffer area only
Defence - NEWINGTON [10616]	NSW	In buffer area only
Defence - NEWINGTON [10758]	NSW	In buffer area only
Defence - NEWINGTON [10610]	NSW	In buffer area only
Defence - NEWINGTON [10756]	NSW	In buffer area only
Defence - NEWINGTON [10755]	NSW	In buffer area only
Defence - NEWINGTON [10310]	NSW	In buffer area only
Defence - NEWINGTON [10313]	NSW	In buffer area only
Defence - NEWINGTON [10312]	NSW	In buffer area only
Defence - NEWINGTON [10318]	NSW	In buffer area only
Defence - NEWINGTON [10759]	NSW	In buffer area only
Defence - NEWINGTON [10458]	NSW	In buffer area only
Defence - NEWINGTON [10780]	NSW	In buffer area only
Defence - NEWINGTON [10781]	NSW	In buffer area only
Defence - NEWINGTON [10399]	NSW	In buffer area only
Defence - NEWINGTON [11045]	NSW	In buffer area only
Defence - NEWINGTON [10792]	NSW	In buffer area only
Defence - NEWINGTON [10666]	NSW	In buffer area only
Defence - NEWINGTON [10667]	NSW	In buffer area only
Defence - NEWINGTON [10664]	NSW	In buffer area only
Defence - NEWINGTON [10662]	NSW	In buffer area only
Defence - NEWINGTON [10786]	NSW	In buffer area only
Defence - NEWINGTON [10665]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10789]	NSW	In buffer area only
Defence - NEWINGTON [10660]	NSW	In buffer area only
Defence - NEWINGTON [10663]	NSW	In buffer area only
Defence - NEWINGTON [10939]	NSW	In buffer area only
Defence - NEWINGTON [10428]	NSW	In buffer area only
Defence - NEWINGTON [10429]	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 [10287]	NSW	In buffer area only
Defence - NEWINGTON [10522]	NSW	In buffer area only
Defence - NEWINGTON [10523]	NSW	In buffer area only
Defence - NEWINGTON [10520]	NSW	In buffer area only
Defence - NEWINGTON [10528]	NSW	In buffer area only
Defence - NEWINGTON [10529]	NSW	In buffer area only
Defence - NEWINGTON [10393]	NSW	In buffer area only
Defence - NEWINGTON [10288]	NSW	In buffer area only
Defence - NEWINGTON [10396]	NSW	In buffer area only
Defence - NEWINGTON [10526]	NSW	In buffer area only
Defence - NEWINGTON [10397]	NSW	In buffer area only
Defence - NEWINGTON [10527]	NSW	In buffer area only
Defence - NEWINGTON [10524]	NSW	In buffer area only
Defence - NEWINGTON [10530]	NSW	In buffer area only
Defence - NEWINGTON [10395]	NSW	In buffer area only
Defence - NEWINGTON [10394]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10531]	NSW	In buffer area only
Defence - NEWINGTON [10398]	NSW	In buffer area only
Defence - NEWINGTON [10534]	NSW	In buffer area only
Defence - NEWINGTON [10860]	NSW	In buffer area only
Defence - NEWINGTON [10863]	NSW	In buffer area only
Defence - NEWINGTON [10869]	NSW	In buffer area only
Defence - NEWINGTON [10948]	NSW	In buffer area only
Defence - NEWINGTON [10888]	NSW	In buffer area only
Defence - NEWINGTON [10445]	NSW	In buffer area only
Defence - NEWINGTON [10793]	NSW	In buffer area only
Defence - NEWINGTON [10525]	NSW	In buffer area only
Defence - NEWINGTON [10799]	NSW	In buffer area only
Defence - NEWINGTON [10446]	NSW	In buffer area only
Defence - NEWINGTON [10798]	NSW	In buffer area only
Defence - NEWINGTON [10881]	NSW	In buffer area only
Defence - NEWINGTON [10797]	NSW	In buffer area only
Defence - NEWINGTON [10444]	NSW	In buffer area only
Defence - NEWINGTON [10447]	NSW	In buffer area only
Defence - NEWINGTON [10882]	NSW	In buffer area only
Defence - NEWINGTON [10596]	NSW	In buffer area only
Defence - NEWINGTON [10597]	NSW	In buffer area only
Defence - NEWINGTON [10448]	NSW	In buffer area only
Defence - NEWINGTON [10598]	NSW	In buffer area only
Defence - NEWINGTON [10883]	NSW	In buffer area only
Defence - NEWINGTON [10599]	NSW	In buffer area only
Defence - NEWINGTON [10791]	NSW	In buffer area only
Defence - NEWINGTON [10392]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10438]	NSW	In buffer area only
Defence - NEWINGTON [10433]	NSW	In buffer area only
Defence - NEWINGTON [10432]	NSW	In buffer area only
Defence - NEWINGTON [10431]	NSW	In buffer area only
Defence - NEWINGTON [10255]	NSW	In buffer area only
Defence - NEWINGTON [11058]	NSW	In buffer area only
Defence - NEWINGTON [10817]	NSW	In buffer area only
Defence - NEWINGTON [10439]	NSW	In buffer area only
Defence - NEWINGTON [10532]	NSW	In buffer area only
Defence - NEWINGTON [10251]	NSW	In buffer area only
Defence - NEWINGTON [10257]	NSW	In buffer area only
Defence - NEWINGTON [10415]	NSW	In buffer area only
Defence - NEWINGTON [10256]	NSW	In buffer area only
Defence - NEWINGTON [10430]	NSW	In buffer area only
Defence - NEWINGTON [10435]	NSW	In buffer area only
Defence - NEWINGTON [10253]	NSW	In buffer area only
Defence - NEWINGTON [10434]	NSW	In buffer area only
Defence - NEWINGTON [10419]	NSW	In buffer area only
Defence - NEWINGTON [10884]	NSW	In buffer area only
Defence - NEWINGTON [10412]	NSW	In buffer area only
Defence - NEWINGTON [10887]	NSW	In buffer area only
Defence - NEWINGTON [10413]	NSW	In buffer area only
Defence - NEWINGTON [10909]	NSW	In buffer area only
Defence - NEWINGTON [10410]	NSW	In buffer area only
Defence - NEWINGTON [10902]	NSW	In buffer area only
Defence - NEWINGTON [10411]	NSW	In buffer area only
Defence - NEWINGTON [10903]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10416]	NSW	In buffer area only
Defence - NEWINGTON [10904]	NSW	In buffer area only
Defence - NEWINGTON [10417]	NSW	In buffer area only
Defence - NEWINGTON [10905]	NSW	In buffer area only
Defence - NEWINGTON [10414]	NSW	In buffer area only
Defence - NEWINGTON [10507]	NSW	In buffer area only
Defence - NEWINGTON [10252]	NSW	In buffer area only
Defence - NEWINGTON [10418]	NSW	In buffer area only
Defence - NEWINGTON [10595]	NSW	In buffer area only
Defence - NEWINGTON [10594]	NSW	In buffer area only
Defence - NEWINGTON [10593]	NSW	In buffer area only
Defence - NEWINGTON [10592]	NSW	In buffer area only
Defence - NEWINGTON [10938]	NSW	In buffer area only
Defence - NEWINGTON [10590]	NSW	In buffer area only
Defence - NEWINGTON [10558]	NSW	In buffer area only
Defence - NEWINGTON [10489]	NSW	In buffer area only
Defence - NEWINGTON [10926]	NSW	In buffer area only
Defence - NEWINGTON [10922]	NSW	In buffer area only
Defence - NEWINGTON [10924]	NSW	In buffer area only
Defence - NEWINGTON [10912]	NSW	In buffer area only
Defence - NEWINGTON [10920]	NSW	In buffer area only
Defence - NEWINGTON [10913]	NSW	In buffer area only
Defence - NEWINGTON [10923]	NSW	In buffer area only
Defence - NEWINGTON [10917]	NSW	In buffer area only
Defence - NEWINGTON [11059]	NSW	In buffer area only
Defence - NEWINGTON [10910]	NSW	In buffer area only
Defence - NEWINGTON [10488]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10914]	NSW	In buffer area only
Defence - NEWINGTON [10915]	NSW	In buffer area only
Defence - NEWINGTON [10826]	NSW	In buffer area only
Defence - NEWINGTON [10516]	NSW	In buffer area only
Defence - NEWINGTON [10837]	NSW	In buffer area only
Defence - NEWINGTON [10836]	NSW	In buffer area only
Defence - NEWINGTON [10835]	NSW	In buffer area only
Defence - NEWINGTON [10244]	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 [10838]	NSW	In buffer area only
Defence - NEWINGTON [10933]	NSW	In buffer area only
Defence - NEWINGTON [10839]	NSW	In buffer area only
Defence - NEWINGTON [10833]	NSW	In buffer area only
Defence - NEWINGTON [10832]	NSW	In buffer area only
Defence - NEWINGTON [10834]	NSW	In buffer area only
Defence - NEWINGTON [10937]	NSW	In buffer area only
Defence - NEWINGTON [10934]	NSW	In buffer area only
Defence - NEWINGTON [10831]	NSW	In buffer area only
Defence - NEWINGTON [10830]	NSW	In buffer area only
Defence - NEWINGTON [10542]	NSW	In buffer area only
Defence - NEWINGTON [10543]	NSW	In buffer area only
Defence - NEWINGTON [10544]	NSW	In buffer area only
Defence - NEWINGTON [10545]	NSW	In buffer area only
Defence - NEWINGTON [10546]	NSW	In buffer area only
Defence - NEWINGTON [10845]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10927]	NSW	In buffer area only
Defence - NEWINGTON [10840]	NSW	In buffer area only
Defence - NEWINGTON [10841]	NSW	In buffer area only
Defence - NEWINGTON [10846]	NSW	In buffer area only
Defence - NEWINGTON [10844]	NSW	In buffer area only
Defence - NEWINGTON [10304]	NSW	In buffer area only
Defence - NEWINGTON [10307]	NSW	In buffer area only
Defence - NEWINGTON [10306]	NSW	In buffer area only
Defence - NEWINGTON [10301]	NSW	In buffer area only
Defence - NEWINGTON [10547]	NSW	In buffer area only
Defence - NEWINGTON [10571]	NSW	In buffer area only
Defence - NEWINGTON [10328]	NSW	In buffer area only
Defence - NEWINGTON [10274]	NSW	In buffer area only
Defence - NEWINGTON [10275]	NSW	In buffer area only
Defence - NEWINGTON [10324]	NSW	In buffer area only
Defence - NEWINGTON [10325]	NSW	In buffer area only
Defence - NEWINGTON [10329]	NSW	In buffer area only
Defence - NEWINGTON [10326]	NSW	In buffer area only
Defence - NEWINGTON [10564]	NSW	In buffer area only
Defence - NEWINGTON [10669]	NSW	In buffer area only
Defence - NEWINGTON [10668]	NSW	In buffer area only
Defence - NEWINGTON [10562]	NSW	In buffer area only
Defence - NEWINGTON [10661]	NSW	In buffer area only
Defence - NEWINGTON [10249]	NSW	In buffer area only
Defence - NEWINGTON [10563]	NSW	In buffer area only
Defence - NEWINGTON [10849]	NSW	In buffer area only
Defence - NEWINGTON [10561]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10848]	NSW	In buffer area only
Defence - NEWINGTON [10320]	NSW	In buffer area only
Defence - NEWINGTON [10327]	NSW	In buffer area only
Defence - NEWINGTON [10321]	NSW	In buffer area only
Defence - NEWINGTON [10322]	NSW	In buffer area only
Defence - NEWINGTON [10323]	NSW	In buffer area only
Defence - NEWINGTON [10437]	NSW	In buffer area only
Defence - NEWINGTON [10774]	NSW	In buffer area only
Defence - NEWINGTON [10775]	NSW	In buffer area only
Defence - NEWINGTON [10772]	NSW	In buffer area only
Defence - NEWINGTON [10773]	NSW	In buffer area only
Defence - NEWINGTON [10778]	NSW	In buffer area only
Defence - NEWINGTON [10779]	NSW	In buffer area only
Defence - NEWINGTON [10776]	NSW	In buffer area only
Defence - NEWINGTON [10777]	NSW	In buffer area only
Defence - NEWINGTON [10611]	NSW	In buffer area only
Defence - NEWINGTON [10308]	NSW	In buffer area only
Defence - NEWINGTON [10309]	NSW	In buffer area only
Defence - NEWINGTON [10305]	NSW	In buffer area only
Defence - NEWINGTON [10671]	NSW	In buffer area only
Defence - NEWINGTON [10670]	NSW	In buffer area only
Defence - NEWINGTON [10672]	NSW	In buffer area only
Defence - NEWINGTON [10383]	NSW	In buffer area only
Defence - NEWINGTON [10389]	NSW	In buffer area only
Defence - NEWINGTON [10388]	NSW	In buffer area only
Defence - NEWINGTON [10459]	NSW	In buffer area only
Defence - NEWINGTON [10770]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10951]	NSW	In buffer area only
Defence - NEWINGTON [10771]	NSW	In buffer area only
Defence - NEWINGTON [10850]	NSW	In buffer area only
Defence - NEWINGTON [10876]	NSW	In buffer area only
Defence - NEWINGTON [10857]	NSW	In buffer area only
Defence - NEWINGTON [10557]	NSW	In buffer area only
Defence - NEWINGTON [10872]	NSW	In buffer area only
Defence - NEWINGTON [11056]	NSW	In buffer area only
Defence - NEWINGTON [10875]	NSW	In buffer area only
Defence - NEWINGTON [11054]	NSW	In buffer area only
Defence - NEWINGTON [10874]	NSW	In buffer area only
Defence - NEWINGTON [10853]	NSW	In buffer area only
Defence - NEWINGTON [10259]	NSW	In buffer area only
Defence - NEWINGTON [10859]	NSW	In buffer area only
Defence - NEWINGTON [10554]	NSW	In buffer area only
Defence - NEWINGTON [10858]	NSW	In buffer area only
Defence - NEWINGTON [10556]	NSW	In buffer area only
Defence - NEWINGTON [10555]	NSW	In buffer area only
Defence - NEWINGTON [10550]	NSW	In buffer area only
Defence - NEWINGTON [10258]	NSW	In buffer area only
Defence - NEWINGTON [10552]	NSW	In buffer area only
Defence - NEWINGTON [10551]	NSW	In buffer area only
Defence - NEWINGTON [10553]	NSW	In buffer area only
Defence - NEWINGTON [10330]	NSW	In buffer area only
Defence - NEWINGTON [10332]	NSW	In buffer area only
Defence - NEWINGTON [10331]	NSW	In buffer area only
Defence - NEWINGTON [10337]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10334]	NSW	In buffer area only
Defence - NEWINGTON [10333]	NSW	In buffer area only
Defence - NEWINGTON [10336]	NSW	In buffer area only
Defence - NEWINGTON [10335]	NSW	In buffer area only
Defence - NEWINGTON [10654]	NSW	In buffer area only
Defence - NEWINGTON [10767]	NSW	In buffer area only
Defence - NEWINGTON [10653]	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 [10658]	NSW	In buffer area only
Defence - NEWINGTON [10657]	NSW	In buffer area only
Defence - NEWINGTON [10656]	NSW	In buffer area only
Defence - NEWINGTON [10761]	NSW	In buffer area only
Defence - NEWINGTON [10655]	NSW	In buffer area only
Defence - NEWINGTON [10760]	NSW	In buffer area only
Defence - NEWINGTON [10559]	NSW	In buffer area only
Defence - NEWINGTON [10659]	NSW	In buffer area only
Defence - NEWINGTON [10421]	NSW	In buffer area only
Defence - NEWINGTON [10483]	NSW	In buffer area only
Defence - NEWINGTON [10482]	NSW	In buffer area only
Defence - NEWINGTON [10768]	NSW	In buffer area only
Defence - NEWINGTON [10769]	NSW	In buffer area only
Defence - NEWINGTON [10485]	NSW	In buffer area only
Defence - NEWINGTON [10492]	NSW	In buffer area only
Defence - NEWINGTON [10487]	NSW	In buffer area only
Defence - NEWINGTON [10484]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10490]	NSW	In buffer area only
Defence - NEWINGTON [10493]	NSW	In buffer area only
Defence - NEWINGTON [10486]	NSW	In buffer area only
Defence - NEWINGTON [10491]	NSW	In buffer area only
Defence - NEWINGTON [10494]	NSW	In buffer area only
Defence - NEWINGTON [10650]	NSW	In buffer area only
Defence - NEWINGTON [10651]	NSW	In buffer area only
Defence - NEWINGTON [10652]	NSW	In buffer area only
Defence - NEWINGTON [10409]	NSW	In buffer area only
Defence - NEWINGTON [10644]	NSW	In buffer area only
Defence - NEWINGTON [10404]	NSW	In buffer area only
Defence - NEWINGTON [10405]	NSW	In buffer area only
Defence - NEWINGTON [10408]	NSW	In buffer area only
Defence - NEWINGTON [10647]	NSW	In buffer area only
Defence - NEWINGTON [10640]	NSW	In buffer area only
Defence - NEWINGTON [10338]	NSW	In buffer area only
Defence - NEWINGTON [10645]	NSW	In buffer area only
Defence - NEWINGTON [10339]	NSW	In buffer area only
Defence - NEWINGTON [10646]	NSW	In buffer area only
Defence - NEWINGTON [10763]	NSW	In buffer area only
Defence - NEWINGTON [10643]	NSW	In buffer area only
Defence - NEWINGTON [10642]	NSW	In buffer area only
Defence - NEWINGTON [10641]	NSW	In buffer area only
Defence - NEWINGTON [10407]	NSW	In buffer area only
Defence - NEWINGTON [10406]	NSW	In buffer area only
Defence - NEWINGTON [10401]	NSW	In buffer area only
Defence - NEWINGTON [10762]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - NEWINGTON [10970]	NSW	In buffer area only
Defence - NEWINGTON [10973]	NSW	In buffer area only
Defence - NEWINGTON [10627]	NSW	In buffer area only
Defence - NEWINGTON [10624]	NSW	In buffer area only
Defence - NEWINGTON [10625]	NSW	In buffer area only
Defence - NEWINGTON [10972]	NSW	In buffer area only
Defence - NEWINGTON [10623]	NSW	In buffer area only
Defence - NEWINGTON [10620]	NSW	In buffer area only
Defence - NEWINGTON [10621]	NSW	In buffer area only
Defence - NEWINGTON [10626]	NSW	In buffer area only
Defence - NEWINGTON [10971]	NSW	In buffer area only
Defence - NEWINGTON [10533]	NSW	In buffer area only
Defence - NEWINGTON [10519]	NSW	In buffer area only
Defence - NEWINGTON [10622]	NSW	In buffer area only
Defence - NEWINGTON [10391]	NSW	In buffer area only
Defence - NEWINGTON [10629]	NSW	In buffer area only
Defence - NEWINGTON [10350]	NSW	In buffer area only
Defence - NEWINGTON [10351]	NSW	In buffer area only
Defence - NEWINGTON [10352]	NSW	In buffer area only
Defence - NEWINGTON [10390]	NSW	In buffer area only
Defence - NEWINGTON [10628]	NSW	In buffer area only
Defence - NEWINGTON [10535]	NSW	In buffer area only
Defence - NEWINGTON [10359]	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 - TIMOR BARRACKS - DUNDAS [11097]	NSW	In buffer area only
Defence - TIMOR BARRACKS - DUNDAS [11096]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - VILLAWOOD - MOTOR REPAIR W/SHP (VILLAWOOD GEMS BASE) [10231]	NSW	In buffer area only
Defence - Defence Housing Authority		
Commonwealth Land - Defence Housing Authority [13011]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13009]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16082]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13956]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13957]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14268]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14264]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14266]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14269]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14263]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14265]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14616]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15902]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14277]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14271]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14270]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14273]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14272]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13964]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13963]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13960]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13961]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15213]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16362]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [15602]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16013]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14615]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16012]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13007]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14239]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14238]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13006]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14234]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14235]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14236]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14237]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14591]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [12994]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14521]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14247]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14246]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14245]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14244]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14522]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14240]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14242]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14241]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14248]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14243]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14257]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14249]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [14255]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14256]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14258]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14259]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13008]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14250]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14251]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14253]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14254]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15739]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14493]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14497]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14492]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13887]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13886]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14499]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14568]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14498]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14427]	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 [14593]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [16563]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14595]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14233]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14232]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14580]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14581]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14584]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14582]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14583]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14589]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14585]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14586]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14587]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14588]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14519]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14518]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14513]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14534]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14531]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14533]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14520]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14532]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14525]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14524]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14526]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14528]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14523]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13862]	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 [13865]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13861]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14515]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14516]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [14506]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14514]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14507]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14517]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14578]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14574]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14575]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14576]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14577]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14570]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14508]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14502]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14501]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14500]	NSW	In buffer area only
Education, Science and Training - CSIRO		
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14608]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14607]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14605]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14606]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14609]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14612]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14610]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14614]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14613]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [14611]	NSW	In buffer area only
Treasury - Reserve Bank of Australia		
Commonwealth Land - Reserve Bank of Australia [13001]	NSW	In buffer area only
Unknown		
Commonwealth Land - [13016]	NSW	In buffer area only
Commonwealth Land - [13017]	NSW	In buffer area only
Commonwealth Land - [16472]	NSW	In buffer area only
Commonwealth Land - [15453]	NSW	In buffer area only
Commonwealth Land - [15891]	NSW	In buffer area only
Commonwealth Land - [13013]	NSW	In buffer area only
Commonwealth Land - [14538]	NSW	In buffer area only
Commonwealth Land - [16420]	NSW	In buffer area only

Commonwealth Heritage Places			[Resource Information]
Name	State	Status	Buffer Status
Historic			
Lancer Barracks	NSW	Listed place	In buffer area only
Lancer Barracks Precinct	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

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
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardenna grisea as Puffinus griseus			
Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within 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]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Species or species habitat 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
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat 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 may occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
Charadrius ruficapillus Red-capped Plover [881]		Species or species habitat 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
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Breeding known to occur within area	In feature area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Species or species habitat 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
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	Species or species habitat 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla flava Yellow Wagtail [644]		Species or species habitat likely 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 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 phaeopus Whimbrel [849]		Species or species habitat 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 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
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area overfly marine area	In buffer area only
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]		Migration route may occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
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 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
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]		Species or species habitat 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]		Species or species habitat known to occur within area overfly marine 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
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

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

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Berowra Valley	National Park	NSW	In buffer area only
Dural	Nature Reserve	NSW	In buffer area only
Newington	Nature Reserve	NSW	In buffer area only
Prospect	Nature Reserve	NSW	In buffer area only

Nationally Important Wetlands			[Resource Information]
Wetland Name		State	Buffer Status
Newington Wetlands		NSW	In buffer area only

EPBC Act Referrals					[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status	
Construction of three buildings in Parramatta Justice Precinct, Parramatta, NSW	2014/7330		Completed	In buffer area only	
Coonara Residential Development	2023/09508		Post-Approval	In buffer area only	
Parramatta Light Rail Stage 2	2022/09300		Post-Approval	In buffer area only	
Residential development, 35 Denis Winston Drive, Doonside, NSW	2018/8203		Referral Decision	In buffer area only	
Residential Development - 55 Coonara Avenue, West Pennant Hills NSW 2125	2021/8995		Completed	In buffer area only	
Southern Han commercial development, Hunter and Macquarie Sts, Parramatta, NSW	2014/7359		Assessment	In buffer area only	
Warragamba Dam Raising Project	2017/7940		Completed	In buffer area only	

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
418 Withers Road Subdivision of lot 1020 & 1022	2010/5578	Controlled Action	Post-Approval	In buffer area only
Commercial development, 132 Marsden Street, Parramatta, NSW	2019/8447	Controlled Action	Completed	In buffer area only
Conrad and Keirle Roads Residential Subdivision	2000/78	Controlled Action	Post-Approval	In buffer area only
Construct an integrated residential development, NSW	2013/6910	Controlled Action	Post-Approval	In buffer area only
Construction of a 15 storey office tower at the Parramatta Justice Precinct, Parramatta, NSW	2014/7161	Controlled Action	Completed	In buffer area only
Demolition of an existing building and construction of a new building 5-9 Hunter Street, Parramatta	2014/7334	Controlled Action	Further Information Request	In buffer area only
Glenwood Residential Subdivision	2000/77	Controlled Action	Post-Approval	In buffer area only
Increase in building height,29 Hunter Street, Old Government House precinct, Parramatta,NSW	2013/7063	Controlled Action	Completed	In buffer area only
Kellyville Precinct	2020/8828	Controlled Action	Post-Approval	In buffer area only
Lot 131 DP 2123, Rosebury Road, Kellyville, residential development	2003/1015	Controlled Action	Completed	In buffer area only
Lyn Parade Extension	2004/1392	Controlled Action	Post-Approval	In buffer area only
Modifications to V by Crown Development, Parramatta, NSW	2014/7331	Controlled Action	Post-Approval	In buffer area only
North West Rail Link	2012/6360	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
Residential Development	2013/6974	Controlled Action	Post-Approval	In buffer area only
Residential Development, Lots 13 & 14, Balmoral Road, Kellyville, NSW	2013/6884	Controlled Action	Post-Approval	In buffer area only
Residential Development/Lot 102 DP 830738 Conrad Road	2001/518	Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Residential Development of Lot 7 DP 270109 Eldon Green, West Pennant Hills	2010/5610	Controlled Action	Post-Approval	In buffer area only
Residential Development of Lot G and H	2000/114	Controlled Action	Post-Approval	In buffer area only
residential subdivision 5 residential allotments DP 270109	2005/2340	Controlled Action	Completed	In buffer area only
Service centre, 6 Honeman Close, Huntingwood, NSW	2018/8290	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
V by Crown - Mixed Use Development Project, Parramatta, NSW	2013/6803	Controlled Action	Post-Approval	In buffer area only
Western Sydney International Dragway	2002/720	Controlled Action	Completed	In buffer area only
Not controlled action				
14 residential lots on Lot 18 DP 1034206 & Lot 131 DP 2123, Rosebery Road	2005/2230	Not Controlled Action	Completed	In buffer area only
18-hole, golf course development, west of Eastern Creek	2004/1757	Not Controlled Action	Completed	In buffer area only
356 Old Windsor Road, development of six industrial allotments and retention of native bushland	2004/1465	Not Controlled Action	Completed	In feature area
Adaptive reuse of George Street Gatehouse, Parramatta Regional Park, NSW	2013/7015	Not Controlled Action	Completed	In buffer area only
Adaptive reuse of the Queens Road Gatehouse, Parramatta Park, NSW	2015/7602	Not Controlled Action	Completed	In buffer area only
Australia Post Site Rehabilitation	2002/609	Not Controlled Action	Completed	In buffer area only
Clearance of 6.3ha of Cumberland Plain Woodland for industrial subdivision cnr of Old Walgrove and W	2004/1445	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

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Concrete Batching Plant and Associated Facilities	2005/2067	Not Controlled Action	Completed	In buffer area only
Conrad Road Residential Subdivision	2001/320	Not Controlled Action	Completed	In feature area
construct access road and install underground water main	2005/2299	Not Controlled Action	Completed	In buffer area only
Construction and Operation of the Parramatta Rail Link - between Parramatta and	2002/673	Not Controlled Action	Completed	In buffer area only
Construction of a playing field and associated facilities	2004/1798	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
Decommissioning of the Australia Post Mail Distribution Centre	2002/612	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 a Retirement Village	2009/4746	Not Controlled Action	Completed	In buffer area only
Duplication of the single rail line between Quakers Hill & Vineyard	2009/4872	Not Controlled Action	Completed	In buffer area only
Electricity Substation at Old Wallgrove Road	2005/2220	Not Controlled Action	Completed	In buffer area only
Erection of a dwelling and associated access and infrastructure, 19 Tidswell Str	2003/1078	Not Controlled Action	Completed	In buffer area only
Former CSIRO Clunies Ross Research Station	2002/803	Not Controlled Action	Completed	In buffer area only
Fyfe Road, Rouse Hill Residential Subdivision	2002/831	Not Controlled Action	Completed	In buffer area only
Gardens Precinct Stage 1 landscaping works, Parramatta, NSW	2015/7443	Not Controlled Action	Completed	In buffer area only
gas main installation from Eastern Creek to Erskine Park	2005/2235	Not Controlled Action	Completed	In buffer area only
Georges River Program 2	2003/999	Not Controlled Action	Completed	In buffer area only
Green Valley NSW residential development	2003/1236	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Huntingwood Industrial Estate Development	2002/834	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 buffer area only
Library Building and Underground Car Park Development - Corner of Alpha Street n	2001/483	Not Controlled Action	Completed	In buffer area only
Lot 43 Fyfe Road Residential Subdivision	2002/838	Not Controlled Action	Completed	In buffer area only
Lots 24 & 25 Kierle Road Residential Subdivision, Kellyville	2001/335	Not Controlled Action	Completed	In buffer area only
M2 Motorway Upgrade	2010/5329	Not Controlled Action	Completed	In buffer area only
Mixed Used Residential Development	2012/6358	Not Controlled Action	Completed	In buffer area only
Mountain View Classrooms Construction	2001/306	Not Controlled Action	Completed	In feature area
No. 387 Blacktown Road Housing Development/EPBC 2000-92	2000/92	Not Controlled Action	Completed	In buffer area only
Northwest Transitways Project	2002/796	Not Controlled Action	Completed	In feature area
Overhead cover for heritage vehicles, Lancer Barracks, Parramatta	2018/8199	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
Parramatta North Urban Redevelopment Project, NSW	2014/7378	Not Controlled Action	Completed	In buffer area only
Precinct 9,Tallowood Hills Estate	2001/173	Not Controlled Action	Completed	In buffer area only
Proposed industrial Developments Bragham Drive, Eastern Creek	2012/6383	Not Controlled Action	Completed	In buffer area only
Proposed third rail track and associated infrastructure	2013/6760	Not Controlled Action	Completed	In buffer area only
Removal of Weeds & Native Vegetation Hannah Avenue	2006/2621	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Residential development, 28 Balmoral Road, Kellyville	2014/7145	Not Controlled Action	Completed	In buffer area only
residential development, Lalor Road and Stanbury Place	2002/892	Not Controlled Action	Completed	In buffer area only
Residential development at Doonside Crescent Woodcroft, Blacktown LGA	2004/1378	Not Controlled Action	Completed	In feature area
Residential Development Kellyville	2000/60	Not Controlled Action	Completed	In buffer area only
Residential development within 2.08ha, Fyfe Road	2005/1966	Not Controlled Action	Completed	In feature area
Residential Land Subdivision	2011/5963	Not Controlled Action	Completed	In buffer area only
Residential Land Subdivision-Fairway Drive Kellyville	2011/5910	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/316	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/375	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2001/304	Not Controlled Action	Completed	In feature area
Residential subdivision, cnr Doris Hirst Place and Highs Road	2005/2392	Not Controlled Action	Completed	In feature area
Residential Subdivision in Hampton Cr, Prospect, City of Blacktown	2008/3953	Not Controlled Action	Completed	In buffer area only
Residential subdivision Lot 1005 Conrad Road	2003/1054	Not Controlled Action	Completed	In feature area
Residential subdivision works, Spurway St, Ermington	2003/1130	Not Controlled Action	Completed	In buffer area only
Rezoning & Disposal of Quakers Hill property	2001/281	Not Controlled Action	Completed	In buffer area only
Riverside Parramatta mixed use development, NSW	2013/6929	Not Controlled Action	Completed	In buffer area only
Riverstone Integrated Water Services Proposal	2007/3216	Not Controlled Action	Completed	In buffer area only
Rouse Hill Infrastructure Project, Second Ponds Creek Area, Proposed Drainage Wo	2003/1258	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Second Ponds Creek urban development	2004/1905	Not Controlled Action	Completed	In buffer area only
Second Ponds Creek Urban Development of Precinct 1b	2005/1991	Not Controlled Action	Completed	In buffer area only
Seniors Living Precinct Memorial Avenue, Kellyville	2010/5601	Not Controlled Action	Completed	In buffer area only
Site remediation and waste disposal	2002/837	Not Controlled Action	Completed	In buffer area only
Stage 1 DA Estate Major Works, Westmead, NSW	2014/7395	Not Controlled Action	Completed	In buffer area only
Stormwater detention basin and road upgrade at Green Rd	2004/1695	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 buffer area only
Subdivision and sale of Commonwealth land in Pymble to Kuring-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
Subdivision of Residential Lands, Greystanes Estate, western Sydney	2001/499	Not Controlled Action	Completed	In buffer area only
Sydney Metro Network Stage 2	2010/5307	Not Controlled Action	Completed	In buffer area only
The North Kellyville Water Related Services Project	2007/3784	Not Controlled Action	Completed	In buffer area only
The Paddocks Precinct Upgrade, Parramatta Park, Parramatta, NSW	2014/7278	Not Controlled Action	Completed	In buffer area only
Tree Removal Under 10/50 Vegetation Clearance, 10B Dalkeith Rd, Cherrybrook, NSW	2014/7337	Not Controlled Action	Completed	In buffer area only
Upgrade of the Crescent Precinct in Parramatta Park Stage 1	2013/7011	Not Controlled Action	Completed	In buffer area only
Urban Development- Lots 7 & 8 Curtis Road	2011/6028	Not Controlled Action	Completed	In buffer area only
Wastewater Lead-Out Line Lot 6- DP 1004614 Kellyville	2001/360	Not Controlled Action	Completed	In buffer area only
Western Sydney Parklands Bungaribbee Precinct and Doonside residential developm	2007/3718	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Western Sydney Stadium Project, NSW	2016/7739	Not Controlled Action	Completed	In buffer area only
Western Sydney University Hassall St Precinct, Parramatta, NSW	2019/8489	Not Controlled Action	Completed	In buffer area only
Westfield Parramatta Commercial Extension - Stage 2	2013/6783	Not Controlled Action	Completed	In buffer area only
Westfield Parramatta Retail Extension - Stage 1	2013/6782	Not Controlled Action	Completed	In buffer area only
Wonderland Business Park Precinct, Stage 1, Lot D1	2004/1626	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
23 Residential lots on Lot 15 of Lot 18 DP 1034206 & Lot 131 DP 2123, Rosebery Road	2005/2229	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Commercial development, 2 Macquarie Street, Parramatta, NSW	2014/7405	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Replacement of flows with recycled water	2006/3050	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Residential Subdivision of Lot 60 Baulkham Hills Shire	2001/431	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Rouse Hill sewer carrier and water mains	2003/1059	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				
Mixed Use Residential Development	2011/6166	Referral Decision	Completed	In buffer area only
Modification to Mixed Use Development at 45-47 Macquarie Street, Parramatta, NSW	2012/6607	Referral Decision	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Referral decision				
Residential subdivision Lot 8 in DP 220102	2010/5765	Referral Decision	Completed	In buffer area only
Westfield Parramatta Extension, NSW	2012/6657	Referral Decision	Completed	In buffer area only

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

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

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Appendix D

Vegetation mapping

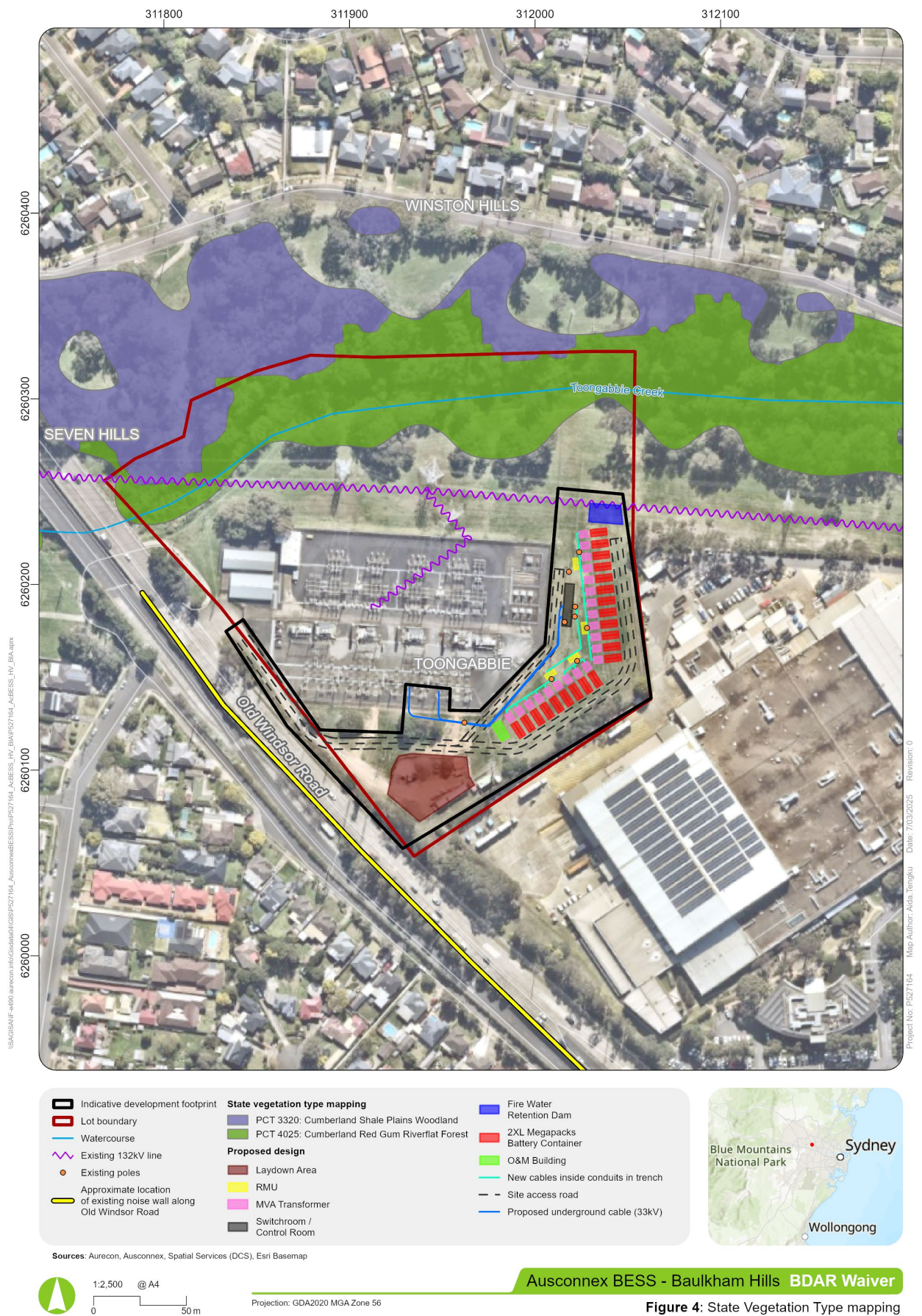


Figure 4. State Vegetation Type mapping.

Appendix E

Site photographs



Photo 1. Groundcover of mown and managed native and non-native grasses (image 1)



Photo 2. Planted *Corymbia citriodora* and *Acacia parramattensis*, on the eastern fence of the project site



Photo 3. Planted *Photinia glabra* vegetation on the northern side of the project site



Photo 4. Planted *Banksia integrifolia*, *Lophostemon confertus*, and *Leptospermum* sp. south of the existing substation



Photo 5. Groundcover of mown and managed native and non-native grasses (image 2)

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Appendix D

Community notification

December 2024

Dear Business Owner/Resident,

Large-scale battery to revolutionise renewable energy infrastructure

To support the increase of renewable energy in the electricity network, Ausconnex, part of the Endeavour Energy Group, plans to deliver large grid scale Battery Energy Storage Systems (BESS) across Greater Western Sydney. This initiative will support the NSW Government's objectives to achieve net zero emissions by 2050, providing safe, reliable and renewable power.

Planned Battery Energy Storage System (BESS)

Ausconnex is proposing a high voltage (HV) BESS which will be located adjacent to the existing substation at 191Z Old Windsor Road, Old Toongabbie. A BESS is a type of energy storage that captures energy from renewable and non-renewable sources and uses batteries to store and distribute electricity.

Having the BESS located adjacent to the existing transmission substation minimises environmental impacts by collocating energy transmission and energy storage infrastructure and maximises land use efficiency. The proposed HV BESS will have a capacity to supply up to 100 megawatts of power and store 200MWh of energy.

Planning procedures and what to expect

As a State significant development (SSD), the proposed HV BESS will require NSW Planning Minister's approval including the preparation of an Environmental Impact Statement (EIS). The EIS will be prepared in line with the Secretary's Environmental Assessment Requirements (SEARs).

As we progress through the development of the EIS, a number of environmental studies will be undertaken to assess potential impacts during the project's construction and operation.

As part of these studies, the Ausconnex team will undertake site testing and surveying to measure background noise levels and analyse activities that might generate noise during construction and or operation of the project. To assess background noise and sensitivity in the surrounding area, we will use devices called noise loggers.

Pending approval of the project, construction is expected to begin in 2026 and will largely take place during standard construction hours (Monday to Friday from 7am to 6pm and Saturdays from 8am to 1pm). Standard construction noise mitigation measures will be implemented to minimise construction noise.



Aerial view of the Baulkham Hills Substation and proposed HV BESS site.

Get to know more about the infrastructure

What is a BESS and how will it support the energy network?

A BESS consists of one or more batteries that store electrical energy for use at a later time. This stored energy can then be drawn upon as needed, to meet various demands for power.

What are the benefits of a BESS?

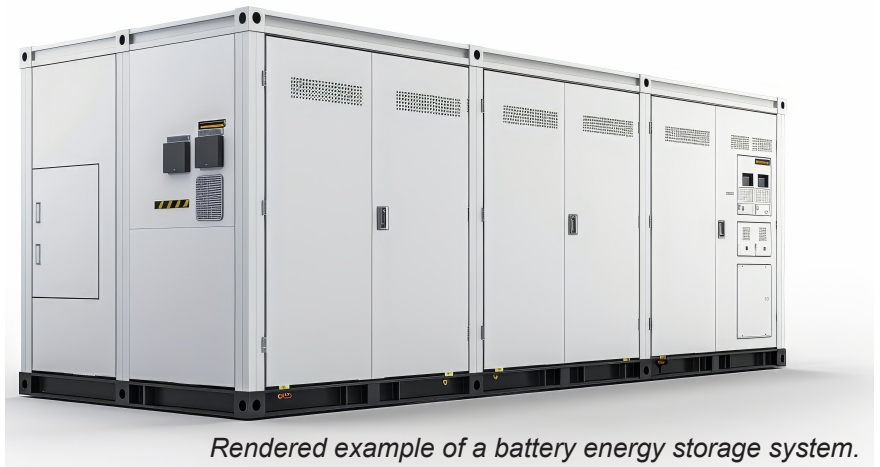
- **Grid reliability and stabilisation** – the BESS can absorb or release electrical power almost instantly, providing valuable services in balancing power supply and demand
- **Renewable energy integration** – a BESS can store excess energy generated from renewable sources like solar during periods of low demand and release it during peak demand times. Ensuring a continuous and reliable supply of renewable energy even when the sun isn't shining
- **Flexibility to dispatch energy** - during natural disasters or heat waves when the grid is under stress, the BESS will be able to provide grid support, enhancing resilience to ensure the power stays on
- **Cost efficiencies** – by discharging stored energy during peak demand periods, the BESS can help reduce the need for expensive peaking power plants, leading to potential cost savings for consumers on their power bills
- **Environmental benefits** – by integrating renewable energy more effectively and decreasing dependence on fossil fuel-based peaking plants, BESS contributes to lower carbon emissions and a cleaner environment.

What will the HV BESS look like??

A BESS, which generally looks like a set of shipping containers that are about three metres high, is comprised of four key components:

- **Battery packs** – a set of modules that turn chemical energy into electricity, which, in turn, make up the battery pack
- **Battery management system (BMS)** – which ensures the safety of the battery system by monitoring and measuring the condition of the modules
- **Inverter or power conversion system (PCS)** – which shifts the direct current (DC) generated by the batteries to alternating current (AC) that goes into the electricity grid and vice versa, allowing for charging and discharging
- **Balance of Plant (BoP)** – which is the electrical equipment enabling connecting of the BESS to the grid including transformers, switchgear and cables.

The HV BESS proposed at Baulkham Hills will be partially visible from Old Windsor Road, however there is an existing noise wall on the western side of Old Windsor Road that would provide visual screening and noise attenuation for residents and businesses west of the site. As we progress with the development of the Environmental Impact Statement and associated technical studies, further visual screening requirements will be assessed.



Rendered example of a battery energy storage system.

Have Your Say

The proposed HV BESS, a State significant development (SSD), requires NSW Planning Minister approval. A Scoping Report will be submitted to the Department of Planning, Housing and Infrastructure early next year. Following this, an Environmental Impact Statement (EIS) will be prepared and exhibited publicly, inviting community members and stakeholders to provide feedback, expected to be in late 2025.

Ausconnex will continue engaging with residents, business owners, and the wider community throughout the project.

For questions, contact us at batteries@ausconnex.com.au or 1800 955 224.

You can visit our website www.ausconnex.com.au/bess-project/bess/ for more information.

Appendix E

Baulkham Hills Community and Stakeholder Engagement Plan

PROJECT BOOST

HV BESS – Community & Stakeholder Engagement Plan (CSEP)

AUSCONNEX

Reference: 527164-PWD-500-PLN-CS-0001

Revision: C

2024-09-16



Acknowledgements of Country

Ausconnex acknowledges the Traditional Custodians of country where we work - the people of the Dharug, Wiradjuri, Dharawal, Gundungarra and Yuin nations - and recognises their continuing connection to the land, waters and community. We pay our respect to them, their cultures, and to the Elders past and present.

Aurecon acknowledges Australia's first peoples as the traditional owners of the land on which it operates. We celebrate the diversity of Aboriginal and Torres Strait Islander peoples and their ongoing cultures and connections to the lands and waters.

We pay our respects to Elders past, present and future, and acknowledge all Aboriginal and Torres Strait Islander peoples across all communities in which we live, visit and work. We are incredibly grateful that Aboriginal and Torres Strait Islander peoples have held on to their culture, and more so that they choose to share their culture with us; we are better for it.

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Glossary

Table 1 Abbreviations used throughout the document

Term	Description
BESS	Battery Energy Storage System
CPP	Community Participation Plan
CSE	Community and Stakeholder Engagement
CSEP	Community and Stakeholder Engagement Plan
DPE	Department of Planning and Environment
DPHI	Department of Planning, Housing and Infrastructure (formally known as DPE)
EP&A Act	Environmental Planning and Assessment Act 1979
EIS	Environmental Impact Statement
FAQ	Frequently asked questions
HV	High Voltage
IAP2	International Association for Public Participation
LALC	Local Aboriginal Land Council
LGA	Local Government Area
MV	Medium Voltage
Project	Project Boost
SEARs	Secretary's Environmental Assessment Requirements
SSD	State Significant Development

1 Overview

1.1 Introduction

Ausconnex is a subsidiary of the Endeavour Energy Network, 49.6% owned by the NSW Government.

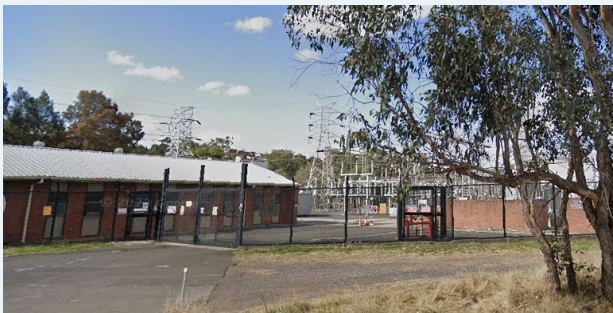
Ausconnex has a vision to safely, effectively and sustainably deliver quality projects to support the journey toward Net Zero. Intelligent energy storage systems such as Battery Energy Storage Systems (BESS) are a key factor in managing intermittent energy generation.

Ausconnex has shortlisted 12 land sites to develop front of the meter Battery Energy Storage System (BESS) projects in New South Wales that are strategically located adjacent to zone and transmission substation sites within the Endeavour Energy network.

The BESS will deliver customer focused energy storage and solutions that enhance local grid resilience and sustainability. It will allow optimal utilisation of resources, enabling localised supply and demand management, when and where it is needed. The project will support the growing demand for renewable energy while ensuring a safe, reliable and sustainable 'Future Grid' electricity solution.

Ausconnex are preparing to build both High Voltage (HV) BESS and Medium Voltage (MV) BESS. This Community and Stakeholder Engagement Plan (CSEP) will provide an overview of the proposed community and stakeholder engagement to take place to support the planning approvals for the HV BESS sites, specifically the proposed HV BESS site adjacent to the existing transmission substation site located at 191 Z Old Windsor Road, Old Toongabbie (Table 2).

Table 2 Satellite and Street Views of the HV BESS sites

Satellite view	Street view
Baulkham Hills Transmission Substation, 191 Z Old Windsor Road, Old Toongabbie	
	

1.2 Purpose of this document

This CSEP outlines community and stakeholder engagement activities and communications to support consultation requirements throughout the development of the relevant Scoping Reports and Environmental Impact Statements (EIS) for the HV BESS at Baulkham Hills.

This Plan has been designed to support effective engagement with local communities, landowners, stakeholders, government agencies, councils, and businesses within and nearby the HV BESS sites.

Ausconnex recognises the importance of genuine, open and transparent engagement with key stakeholders and members of the local community. We strive to pursue a "no surprises" approach for both the project as well as the communities we operate in. We are committed to developing and nurturing long-term relationships between our team and the various project stakeholders.

1.3 State Significant Development application process

The HV BESS will follow the State Significant Development (SSD) application process as set by the NSW Department of Planning, Housing and Infrastructure (DPHI) and in accordance with the Environmental Planning and Assessment Act 1979 (EP&A Act). The development application for an SSD project must be accompanied by an Environmental Impact Statement (EIS). Ahead of the development of the EIS a Scoping Report will be prepared.

The Scoping Report will be developed in accordance with the DPHI *State significant development guidelines - Preparing a Scoping Report* (DPE, 2022). The Scoping Report would include description of the project, preliminary assessment and specialist studies methodologies that meets the expectations of regulators and community and engagement activities to date and engagement that would be carried out during the preparation of the EIS.

Following the lodgement of the Scoping report and receipt of the relevant Secretary's Environmental Assessment Requirements (SEARs), an EIS will be developed in accordance with the relevant NSW Government legislative requirements.

Community and stakeholder engagement for each of the HV BESS sites is guided by the relevant State guidelines including:

- [State significant development guidelines- Preparing a Scoping Report \(DPE, 2022\)](#)
- [State Significant Development Guidelines – Preparing an Environmental Impact Statement \(DPE, 2022\)](#)
- [Undertaking Engagement Guidelines for State Significant Projects \(DPE, 2022\)](#)
- [Social Impact Assessment Guidelines \(DPE, 2023\)](#).

Figure 2 outlines community and stakeholder engagement requirements throughout the planning approvals stage.

Project Boost – HV BESS community and stakeholder engagement

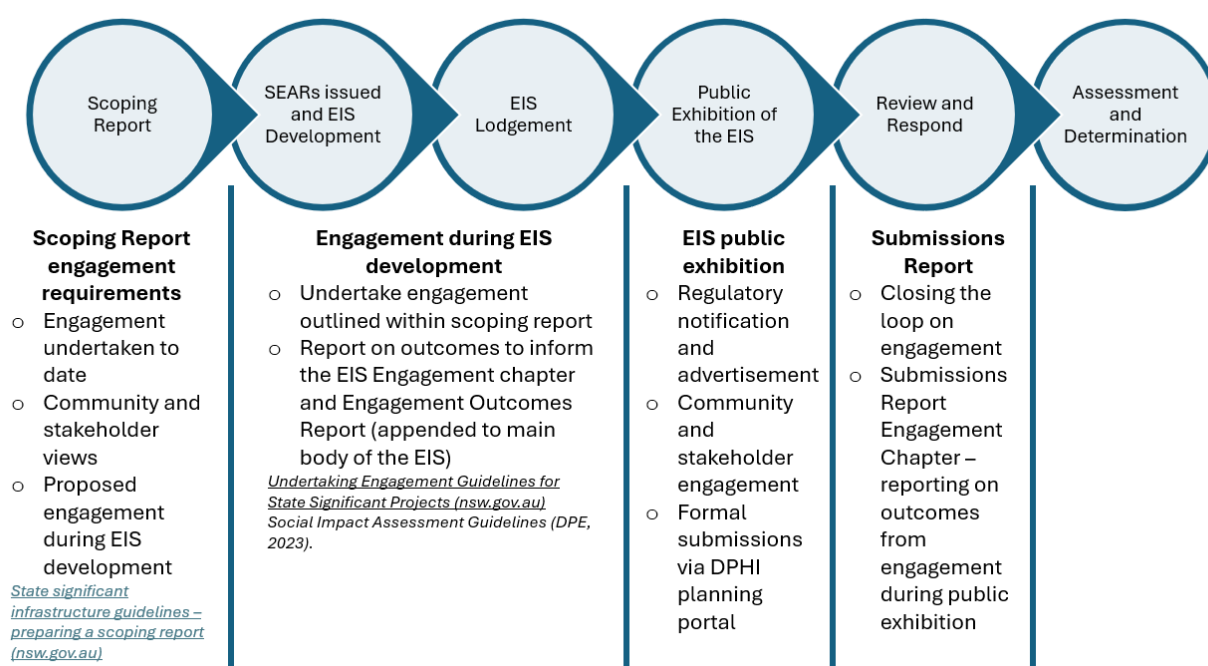


Figure 1: HV BESS CSE requirements throughout SSD planning approvals process

1.4 Engagement phases

Table 2 Engagement phases and milestones

Phase	Key milestones
Planning	Establish HV BESS overarching CSEP and detailed Action Plans for each HV BESS site.
Scoping Report	Prepare and communicate with stakeholders ahead of Scoping Report lodgement. Identify community engagement activities undertaken to date; community and stakeholder sentiment and the proposed engagement plans during the EIS engagement.
EIS Development	Continue with engagement as outlined in the Scoping Report, gather feedback and apply feedback to EIS. Regulatory stakeholder consultation period previous to the formal EIS exhibition period.
EIS exhibition	Prepare regulatory notification and advertisement. Formal stakeholder and community consultation during public exhibition period of the EIS.
Post EIS exhibition	Prepare submissions report and responses to submissions.

2 Engagement Approach

This Community and Stakeholder Engagement Plan outlines the approach that will be used to engage with the community and stakeholders during the planning phase of this project.

2.1 Objectives

The objective of the CSEP is to:

- Outline engagement activities and communications channels to be used throughout the development of the project
- Inform key stakeholders and the community about the Project, its need and potential impacts.
- Facilitate early engagement to ensure a ‘no surprises’ approach.
- Understand and address community and stakeholder interests and issues relating to the Project.
- Build trust and constructive relations between Ausconnex and the community and stakeholders.
- Identify and address key risks, impacts and opportunities.
- Engage with relevant community members and stakeholder to provide timely and accurate information about the project, project stage and expected outcomes.
- Facilitate effective community and stakeholder engagement that contributes to better planning outcomes.
- Report back to community and stakeholders on how engagement has shaped the Project through an outcomes report.

2.2 Engagement Approach

The community and stakeholder engagement (CSE) team will communicate and engage with the community and stakeholders through multiple channels identified via a preliminary stakeholder mapping. This will help determine the activities to effectively engage each stakeholder group and gain meaningful feedback to inform the SSD process.

An overarching stakeholder mapping is provided in Section 4 of this plan. Detailed stakeholder mapping for each HV BESS sites is also included in each CSE Action Plan.

The engagement and consultation process will follow the International Association of Public Participation (IAP2) Spectrum of Public Participation. The IAP2 Spectrum helps to establish the public’s role in the engagement process and their impact on the decision-making outcomes of a project.

Given the nature of the proposed infrastructure, it is anticipated that the engagement activities associated with Project Boost’s HV BESS sites will be delivered within the Inform and Consult levels or participation.

Throughout the Project we will:

- Provide the public with timely, balanced and objective information relevant to each BESS site.
 - Keep stakeholders informed, listen to and acknowledge concerns and aspirations.

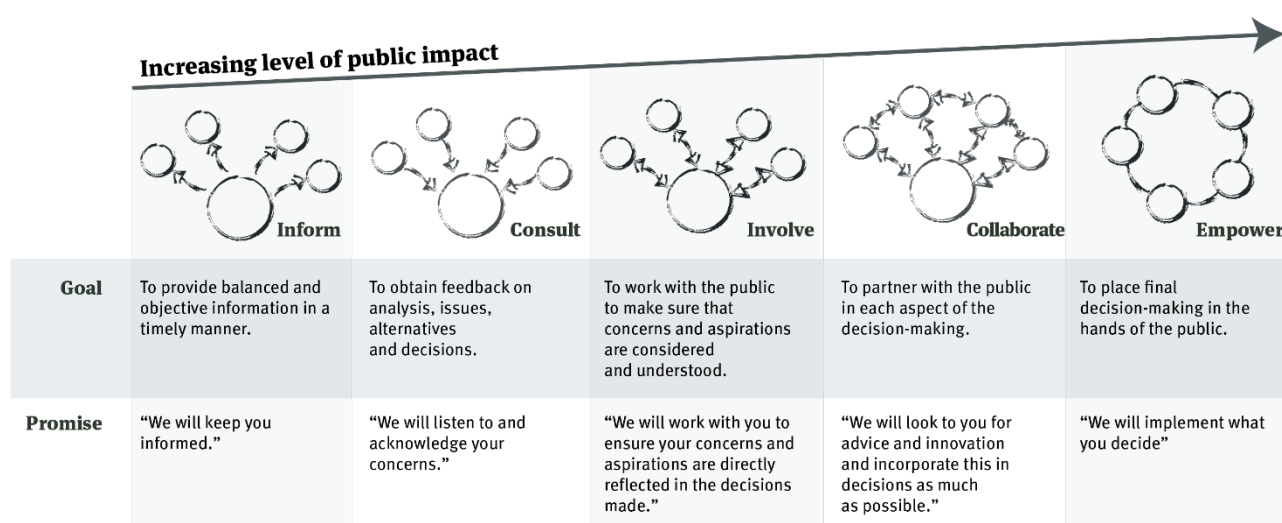


Figure 2 IAP2 Spectrum of Public Participation

Source: International Association for Public Participation – IAP2 International. Public Participation Spectrum

As outlined in section 1.3, our proposed engagement approach aligns with the requirements from an SSD process perspective, and at the same time endeavours to meaningfully built relationships that Ausconnex and Endeavour Energy can continue to nurture throughout construction and operation of the proposed infrastructure.

- Throughout the development of the Project, the CSE team will engage with the identified stakeholders via newsletters and project updates, face to face community information sessions, online community sessions, and stakeholder meetings if required.
- The CSE team will establish a project inbox and a 1800 number for community and stakeholder to communicate with the project team.
- Once the engagement has been completed the CSE team will conclude the planning phase engagement with an outcomes report which will be shared with the stakeholders engaged. The engagement outcomes report will document all the engagement that took place, project feedback, share statistics available and next steps for the Project.

Refer to Section 5 for proposed engagement tools and activities.

2.3 Key messages

The table below lists the overarching key messages that will be used in all communications during the planning and delivery stages of the Project. These will be regularly reviewed and updated as required.

Table 3 Key messages

Area of interest	Key messages
About Ausconnex	
Who is Ausconnex	• Ausconnex, a part of the Endeavour Energy Group, stands as a trusted leader in both large and small scale energy infrastructure projects. We pride ourselves on our ability to offer highly skilled expertise across electrical design to procurement, maintenance, and construction. Our team is dedicated to delivering first class solutions tailored to meet the unique needs of each project, ensuring efficiency and excellence at every stage.

Why is this project needed?	Our initiative is designed to bolster the integration of renewable energy into the electricity grid, aligning with the NSW Government's ambitious objectives in achieving net zero emissions by 2050 while ensuring the provision of safe, reliable, and renewable power for all.
BESS information	
What is a BESS?	- BESS stands for Battery Energy Storage System, and it is a type of energy storage system that uses batteries to store and distribute electricity. - A BESS consists of one or more batteries that store electrical energy for use at a later time or during times of peak demand. This stored energy can then be drawn upon quickly as needed, to meet various demands for power. - A BESS provides a sustainable, reliable, cost efficient, low emissions local energy source.
Project need and customer benefits	- Ausconnex is proposing to install large scale battery energy storage systems (BESS) in Baulkham Hills as part of their commitment to energy renewable infrastructure. - As part of the proposed infrastructure, Ausconnex is intending to build a high voltage (HV) BESS on existing substation land in Old Toongabbie. - The proposed BESS will provide a localised energy supply and support the growing demand in energy resources and will: - provide a safe and reliable power supply to its customers now and in the future. - improve service reliability by reducing the risk of power disruptions and outages. - support the energy network and therefore reduce the cost for Endeavour Energy to run its network, benefiting customers and enabling improved grid resiliency. - enhance the energy sustainability ecosystem by storing excess solar generation for use at a later time or during times of peak demand. Which can then be exported out to customers as needed to meet various demands for power. - reduces power consumption quickly for a short period of time to avoid a spike in consumption.
Benefits of a BESS	- Grid reliability and stabilisation – The BESS can absorb or release electrical power almost instantly, providing valuable services in balancing power supply and demand, stabilising the power grid, and maintaining a steady frequency - Renewable energy integration – A BESS can store excess energy generated from renewable sources like solar or wind during periods of low demand and release it during peak demand times. Ensuring a continuous and reliable supply of renewable energy even when the sun isn't shining, or the wind isn't blowing - Cost efficiencies – By discharging stored energy during peak demand periods, the BESS can help reduce the need for expensive peaking power plants, leading to cost savings for utilities and consumers - Environmental benefits – By enhancing the integration of renewable energy and reducing reliance on fossil fuel-based peaking plants, BESS' contribute to lower carbon emissions and a cleaner environment. Improved grid efficiency resulting from a BESS reduces the amount of energy waste, supporting more sustainable energy practices. - Energy independence and security – During natural disasters or grid failures, the BESS can provide backup power, enhancing resilience and ensuring critical services remain operational - Rapid deployment – Compared to traditional power plants, a BESS can be installed and commissioned relatively quickly, making them a versatile solution for emerging energy needs.
Why is Ausconnex constructing a BESS?	Ausconnex has a vision to safely, effectively and sustainably deliver quality projects to support the journey toward Net Zero. Intelligent energy storage systems such as BESS are a key factor in managing intermittent energy generation.
Community and stakeholder engagement	Ausconnex is committed to keeping stakeholders and the community informed about the project and its progress. This will be completed via project updates, notification letters and our website.

	To learn more about the project, contact the community engagement team on 1800 955 224, email batteries@ausconnex.com.au or visit www.ausconnex.com.au
Baulkham Hills HV BESS	
Why choose Baulkham Hill for a BESS?	- The location of the proposed BESS in Baulkham Hills is on existing Endeavour Energy Transmission Substation land at 191 Z Old Windsor Road, Old Toongabbie. Having a BESS located in sites within or adjacent to existing transmission substations minimises impacts by collocating energy transmission and energy storage infrastructure within one location. BESS co-location can maximise land use and improve efficiency, share infrastructure expenditure and maximise the grid capacity. - A BESS is smart technology that supports future grid technology and allows excess renewable energy generation to be stored within the batteries for use as it is needed. It will support demand for electricity, providing reassurance of a local back up energy efficient power supply - BESS technology allows the community to benefit from a resilient, sustainable and cost-effective energy source. Energy stored within the BESS is readily available to feed into the energy network as soon as it's needed.
About the Baulkham Hills high voltage battery storage systems	- Ausconnex is proposing to develop a HV BESS of approx. 75MW 150MWh to connect to the existing High Voltage network. - The Baulkham Hills HV BESS would be located adjacent to the existing Baulkham Hills Transmission Substation within land leased from Endeavour Energy. The land in the proposed area is currently categorised as General Industrial. - The proposed BESS will be an industrial-style building providing energy storage for the surrounding electrical network and, as such, would suit the land use zone. - The high voltage large scale BESS will mainly supply for wholesale power generation and the medium voltage BESS stores energy that is used directly by the local community for their electricity supply.
What is the expected timeline for the project?	- Planning and design for the proposed HV BESS in Baulkham Hills has started and it is expected to be completed in mid-2025. Following planning approvals, construction is expected to commence in 2026. - Construction is expected to take about 18 months, dependant on availability of supply of materials and BESS components. - Construction will take place during standard construction hours (Monday to Friday from 7am to 6pm and Saturdays from 8am to 1pm). - Standard construction noise mitigation measures will be implemented to minimise construction noise. - Subject to project approval typical construction activities would include installation and maintenance of environmental controls, upgrading and/or construction of the access and internal access road, clearing of vegetation/ tree removal, relocation/ removal of existing services, establishment of temporary construction facilities and laydown area(s), civil works, electrical works and testing and commissioning activities.
What is the Council / Government approval process?	- The proposed HV BESS will follow the State Significant Development (SSD) application process as set by the NSW Department of Planning, Housing and Infrastructure (DPHI) - The development application for an SSD project requires an Environmental Impact Statement (EIS). The EIS assesses and evaluates a number of factors including potential environmental, social and economic impacts. The EIS then outlines potential impacts as well as proposed mitigation measures to manage the potential impacts. - Before we start preparing the EIS, a Scoping Report will be developed. The Scoping Report would include description of the project, preliminary assessment and specialist studies methodologies that meets the expectations of regulators and community and engagement activities to date and engagement that would be carried out during the preparation of the EIS. - Following the lodgement of the Scoping report and receipt of the relevant Secretary's Environmental Assessment Requirements (SEARs), an EIS will be developed in accordance with the relevant NSW Government legislative requirements.

- Ausconnex will consult with the local community and stakeholders throughout this process.

Detailed and site-specific key messages for each of the HV BESS sites are developed on an ongoing basis as the EIS development progresses.

3 Engagement risks and challenges

3.1 Risks and challenges

Communication and engagement risks and issues have the potential to significantly delay or increase the cost of the project. Having a strategy in place to minimise potential project risks will help in early identification and rectification of issues.

It will be imperative to ensure communication is open and transparent and that Ausconnex is able to demonstrate that it is committed to improving engagement and communication with the community and stakeholders.

The community and stakeholder engagement issues that have been identified as having the greatest potential to impact on the delivery of the project have been analysed in table below. The strategies proposed for minimising these impacts, or where possible mitigating or offsetting them, and informing the community are also included.

Table 4 Risks and mitigations

Risks	Mitigation
Perceived operational risks – noise and vibration impacts, visual impacts, electric and magnetic field (EMF) and fire hazard risks.	• Prepare frequently asked questions (FAQs) and key messages to be used at community events and support communications collateral • Engage early and provide relevant and timely information about project progress. • 1800 number and Project email available for stakeholders to contact the engagement team if they have any enquiries.
Construction impacts - traffic and parking restrictions, heavy vehicle movement, noise, dust and fire hazard	• Prepare FAQs and key messages to be used at community events and support communications collateral • Engage early and provide relevant and timely information about project progress. • 1800 number and Project email available for stakeholders to contact the engagement team if they have any enquiries.
Perceived safety risks – batteries catching on fire and the measures taken in place to prevent this.	• Prepare FAQs and key messages to demonstrate to stakeholders the engagement team is ready to answer the potential questions. • Prepare key messages and support communications collateral to be used at community events • Engage early and provide relevant and timely information about project progress. • 1800 number and Project email available for stakeholders to contact the engagement team if they have any enquiries.
Stakeholders learn about Ausconnex activities or milestones through third parties , which reduces their trust in the company, or do not learn of these activities in a timely or respectful manner. This could mean Ausconnex might lose the opportunity to set the narrative. Stakeholders react to the element of surprise in learning of the news, as well as the news itself, and feel frustrated and disrespected by not being directly informed.	• Engage early and provide relevant and timely information about the proposed HV BESS sites. • Proactive communication with Ausconnex CSE lead and media and government relation team when required. • Provide accurate and timely information on Project Boost available on Ausconnex/Endeavour Energy websites. • 1800 number and Project email available for stakeholders to contact the engagement team if they have any enquiries.

Local communities, landowners and key stakeholders suffer from consultation fatigue	• Develop a detailed stakeholder mapping for each of the BESS sites to identify relevant stakeholders and understand their preferred engagement channels. • Align the HV BESS CSE Action Plan and activities in consideration of other local activities to avoid community and stakeholder fatigue. • Provide clear information about the project, the planning approvals process and the technical components that form the EIS.
Community outrage potentially impacting planning approvals	• Engage early and provide relevant and timely information about each of the proposed HV BESS site. • Provide regular updates to maintain transparent communications with stakeholders and community members. • Manage expectations and issues before they escalate. If required, appropriately escalate with Ausconnex Media and Government Relations team • Prioritise issues according to impact and influence.
Influential stakeholders publicly retract support or directly oppose the project	• Engage early and provide relevant and timely information about each of the proposed HV BESS site. • Manage expectations and issues before they escalate. If required, appropriately escalate with Ausconnex Media and Government Relations team • Prioritise issues according to impact and influence.
Other infrastructure/utility construction planned in the area around the same time	• Ausconnex will liaise with other key stakeholders, to ensure any other work being undertaken during the delivery of this project is factored into Ausconnex's planning to minimise the cumulative impact on the community.

3.2 Evaluation and success measures

The table below outlines the HV BESS SSD engagement evaluation and monitoring methods that the CSE team will use to assess the engagement and communication approach.

Table 5 Evaluation measures and tools

Measure of success	Tools
Stakeholders and community are aware of the Project and the SSD	• Communications collateral (newsletter/project flyer), 1800 number and inbox channels.
Stakeholders and community members feel they have been provided the opportunity to provide feedback	• Face to face and online community information sessions. • 1800 project number and project inbox available for stakeholders and community members to contact the project team.
Engagement activities inform the Scoping Report, the EIS and help foster relations with DPHI during SSD process	• Communicate with Council on the proposed engagement activities and report back response. • Engagement Outcomes Report

4 Stakeholder mapping and analysis

This section identifies the stakeholders that will be interested in or impacted by the proposed HV BESS sites. A stakeholder assessment has been prepared based on desktop research.

All work for this component of the project will happen within the Local Government Area City of Parramatta. The table below identifies the key government stakeholders that will be interested in or impacted by the work in this location.

4.1 Stakeholder influence

To complete a stakeholder analysis for the Project the CSE team has an established stakeholder tiering system:

Tier 1: High influence and high interest – must consult first, involvement is key for the project

Tier 2: High influence and/or moderate interest – all efforts will be made to consult and or inform about the project

Tier 3: Moderate to low influence and high or moderate interest– all efforts will be made to maintain these stakeholders informed of the project.

Table 6 Stakeholder categories and tiers

Stakeholder category	Influence	Interest	Tier
Federal and State MPs	High	High	1
City of Parramatta Council (Baulkham Hills HV BESS)	High	High	
Residents & business located within 500m of the Project site	Moderate	High	
Energy Customers	Moderate	High	2
Energy Industry	Moderate	High	
Broader community and community groups	Moderate	Moderate	
Media	Moderate	Moderate	
Local environmental and Landcare organisations	Moderate	Moderate	3
Local and Indigenous businesses	Low	Low	
Community facilities and services	Low	Low	

4.2 External community and stakeholder groups

The table below identifies the key stakeholders that will be interested in or impacted by the work in this location. Please see individual site action plans in Appendix for more details.

Table 9 Community and stakeholders with potential interest in the Project and expected engagement

Stakeholder	Potential interests	Engagement tools
Residents and businesses		
Landowners, residents and businesses within the Project area Baulkham Hills HV BESS Businesses within a 500m radius – See Action Plan	- Project overview and timeline. - Perceived operational risks - noise impacts, visual impacts, electric and magnetic fields risks - Construction impacts - traffic and street parking restrictions, heavy vehicle movement and night work	- Project newsletters - Community drop-in sessions (Online and in-person) - Targeted in person consultation (as required only) - FAQs - Community information line: 1800 955 224 - Project email: batteries@ausconnex.com.au - Project webpage: https://www.ausconnex.com.au/bess-project/bess/
Traditional owners		
Baulkham Hills HV BESS Metropolitan Local Aboriginal Land Council	- Project overview and need. - Construction impacts on land. - Potential impacts to sites of Aboriginal significance.	- Project newsletters - Targeted email - Targeted in person consultation (as required only) - FAQs - Community information line: 1800 955 224 - Project email: batteries@ausconnex.com.au - Project webpage: https://www.ausconnex.com.au/bess-project/bess/
Industry & Infrastructure		
- Transport for New South Wales - Sydney Water - Business Western Sydney - WESROC (Western Sydney Regional Organisation of Councils)	Project overview and timeline	- Project newsletter and updates - Project webpage: https://www.ausconnex.com.au/bess-project/bess/ - Stakeholder meetings (if required)
Federal and State MPs		
- Prue Car MP - Minister for Western Sydney - Penny Sharpe MP - Minister for Climate Change, Minister	Project overview and timeline	- Targeted email - Project newsletters - In person consultation, as required

for Energy, Minister for the Environment and Minister for Heritage • State Member for Winston Hills • State Member for Parramatta		• Project webpage: https://www.ausconnex.com.au/bess-project/bess/ • Project contact details
City of Parramatta Council (Baulkham Hills)		
See Action Plan for details • City of Parramatta Mayor • North Rocks Ward Councillors	• Project overview and timeline. • Perceived operational risks - noise impacts, visual impacts, electric and magnetic fields risks • Construction impacts - traffic and street parking restrictions, heavy vehicle movement and night work	• Targeted email • Project newsletters • Stakeholder meetings (if required) • Project webpage https://www.ausconnex.com.au/bess-project/bess/ • Project contact details
Local Emergency services		
Fire and Rescue NSW NSW Ambulance NSW Police	• Project overview and timeline • Noise and vibration (construction and operation) • Parking, traffic, road closures, night work	• Targeted email • Project newsletters • Project contact details
Community Infrastructure		
Childhood centres, schools, community halls directly adjacent or near to the proposed HV BESS sites	• Project overview and timeline • Noise and vibration (construction and operation) • Parking, traffic, road closures, night work	• Project newsletters • Community Information Sessions • Targeted in person consultation (as required only) • Project webpage • Project contact details
Future developers in the areas		
Local construction/development companies	• Project overview and timeline • Parking, traffic, road closures, night work	• Project newsletters • Project webpage • FAQs • Project contact details
Media		
Media - Local newspapers, news networks, community blogs, LGA newsletters	• Project overview and timeline	• Project newsletters • Project webpage • FAQs • Project contact details

5 Engagement tools and activities

5.1 Engagement tools

The following table outlines and identifies appropriate engagement tools proposed for the HV BESS community and stakeholder engagement.

Table 10 Engagement tools summary

Engagement tool	Description/purpose
Desktop research	Stakeholder analysis to understand the stakeholders and community demographic before engaging to prepare the appropriate key messaging.
Key messages and FAQs	Approved key messages and FAQs developed for the Project to help the Project team communicate about the Project in a consistent way.
Project webpage	Project newsletters and FAQs to be made available on the Ausconnex and/or Endeavour Energy websites. Aurecon CSE team will share relevant communications collateral for Ausconnex to lead and manage website upload and update when required.
Project Newsletters	- One double sided A4 newsletter on the Project to be developed for each HV BESS site (with the exception of the Baulkham Hills site). - The newsletter will inform the stakeholders and community members about the Project.
Community drop-in session (in-person)	- In person drop-in sessions at each HV site designed to update stakeholders and community members on the Project progress. - One face to face community information session to support EIS exhibition.
Community information sessions (online)	Online sessions designed to update stakeholders and community members on the Project and seek input into EIS development as needed.
Targeted email	Conducted for key stakeholders such as Ministers and government agencies to explore deeper insights, address specific concerns, or gather detailed input from key stakeholder.
Targeted in person consultation	Conducted on an as-needed basis to explore deeper insights, address specific concerns, or gather detailed input from key stakeholder.
Enquiry channels: 1800 number 1800 955 224, and Project email batteries@ausconnex.com.au	- Dedicated enquiry channels where stakeholders and community members can contact the engagement team with enquiries about the project. - FAQs and key messages will drive responses to enquiries. Where required, complaints and enquiries might be escalated with Ausconnex CSE lead and Media and Government Relations team. - Appendix B outlines the escalation process for 1800 number phone call and project inbox emails.

5.2 Engagement outcomes reporting

An Engagement Outcomes Report will be developed to capture and analyse feedback received during the development and exhibition of the Environmental Impact Statement (EIS).

The report will document the engagement channels used, key themes from community and stakeholder feedback, and overall sentiment towards the project.

To support this, the following areas will be monitored and evaluated throughout the engagement process:

- Community and stakeholder interactions, including feedback received during the EIS development and exhibition.
- Attendance at in-person and online community information sessions.
- Enquiries and complaints data to identify issues, concerns, and emerging trends.

Appendices



Appendix A – Project Boost project inbox and 1800 number escalation process

Project Boost has established dedicated project email and project 1800 number where stakeholders and community members can contact the engagement team with enquiries and/or feedback about the project.

Project inbox: batteries@ausconnex.com.au

Project 1800 number: 1800 955 224 The following project inbox and 1800 number management process will be implemented for all calls and email enquiries:

- The Ausconnex Project Boost mailbox will be checked daily, in the morning and afternoon.
- An automated email will be sent on receipt of each incoming email.
- All emails to be responded to within **five** business days.
 - Should further investigation be required, advise the recipient that we are still investigating the matter and require further time to gather all relevant information. Allow up to ten business days for further investigation.
 - There may be instances where a same day response is required. Or, within 24 hours.
- All complaints to be responded to within **ten** business days.
 - If the matter has to be escalated to other parts of the team, it may require up to 20 business days to resolve. Should further investigation be required, the recipient will be informed we are still investigating the matter and require further time to gather all relevant information to finalise the matter.
- If the issue cannot be resolved by the CSE team, the next course of action is to escalate to the project manager for review and investigations; copying the CSE Manager.
- All emails escalated to an Ausconnex leader will be copied to the CSE Manager.
- Some enquiries may require a response via phone, especially if the recipient has called rather than emailed.
 - In instances where the enquiry/complaint is categorised as complex it may require a PM or Ausconnex representative to respond to the recipient directly.
- For media, Council or Government enquiries the Media & Government Relations team will respond directly.

Project inbox emails and 1800 number calls	Action & Timing	Responsibility
Automated emails	Once initial set up, Aurecon team to draft automated emails and Ausconnex to approve and implement on project inbox	Ausconnex IT team to set up project inbox Aurecon CSE to draft automated email Ausconnex CSE Lead to approve and implement.
Incoming email / calls	Investigated and responded to within five business days by Project Boost CSE team (and Project Manager if required).	Aurecon CSE team Ausconnex Project Manager Ausconnex CSE Lead
General enquiries	Investigated and responded to within five business days by CSE and Project Manager.	Aurecon CSE team Ausconnex CSE Lead
Project related queries	Investigated and responded to within five business days by CSE and Project Manager.	CSE Project Manager
Complaints	Investigated and responded to within ten business days by CSE and Project Manager.	Aurecon CSE team Ausconnex Project Manager Ausconnex CSE Lead Ausconnex legal team if required

Enquiries from Media, Council, Government.	Investigated and responded to based on media request timeframes or within two business days.	Media & Govt Relations team (cc. CSE Lead)
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Escalation process

Most enquiries would be able to be resolved via the CSE team based on pre-approved key messages and FAQs, however, in some instances where the issues raised are complex and, these will need to be escalated to an Ausconnex project manager to review or approve/validate or finalise.

Day 1	Day 1-2	Day 1-2	Day 3-8	Day 8-10
Enquiry/email received	CSE review and investigate	Forward to Ausconnex leader/PM for investigation/information	Ausconnex Leader/PM responds to CSE team with detailed information	CSE team to response to enquiry

Automated email response

Thank you for contacting Project Boost, you have reached the Project Boost community engagement mailbox.

We have received your enquiry and will provide you with a response within five business days.

Our workdays are to Monday to Friday 9.00am – 5.00pm.

If you need immediate assistance or would prefer to speak with one of our Community Engagement team members please call 1800 955 224

Alternatively, please call the Ausconnex Customer Service team, call on 133 229.

Further information on Ausconnex projects please visit [Ausconnex – Ausconnex](#)

1800 voicemail recording

Thank you for contacting Ausconnex Project Boost. We are sorry to have missed your call.

Our workdays are Monday to Friday from 9am to 5pm.

Please leave a message with your name, phone number and email address, and we will respond to your enquiry within as soon as possible. Alternatively, please feel free to email us at: batteries@ausconnex.com.au

If your call is concerning a life-threatening situation, please hang up and call 000 immediately.

For all general maintenance or electricity service enquiries, please call Ausconnex Customer Enquiries on 133 229.

Interpreter Service

Call the Translating and Interpreting Service on 131 450.

Further escalation options for recipients

Energy and Water Ombudsman NSW (EWON)

EWON helps people with complaints about their energy, gas or water provider. They provide independent advice and can help if people have been disconnected or are at risk of being disconnected. Their contact details are 1800 246 545, email complaints@ewon.com.au, and website www.ewon.com.au.

1

Contact your provider first

Always let your provider know first if you have an issue. Find out how they can help you.

2

Complain to us

If you're not happy with their response, contact us. We may refer your complaint to a senior contact at your provider. They'll contact you within 5 days.

3

We can investigate

If you don't hear back from your provider, or you're not happy with the outcome, we can investigate.

4

We'll find an outcome

We'll work towards a resolution that's fair and reasonable. Our services are free.

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