

Wellington North Solar Farm – Environmental Management Strategy

FINAL

June 2022

Prepared by Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited



ENVIRONMENTAL MANAGEMENT STRATEGY

Wellington North Solar Farm

FINAL

Prepared by

Umwelt (Australia) Pty Limited

on behalf of

Lightsource bp Renewable Energy Investments
Limited (LSbp)

Project Director: Malinda Facey

Project Manager: Nathan Baker

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1.0 Introduction

Lightsource Development Services Australia Pty Ltd, a wholly owned subsidiary of Lightsource bp Renewable Energy Investments Limited (LSbp) received development consent for the Wellington North Solar Farm (SSD 8895) in April 2021.

LSbp is a global leader in the development and management of solar energy projects, and a 50:50 joint venture with bp. Its purpose is to deliver affordable and sustainable solar power for businesses and communities around the world. LSbp is active in 14 countries, across six continents and is continuing to rapidly expand globally. LSbp provides a full service to its customers, from initial site selection, financing and permitting through to construction, long-term operation and decommissioning. Of the 14 countries LSbp is active in, it currently has 7 in-country Environmental Planning and Sustainability teams (Australia, Brazil, Netherlands, Republic of Ireland, Spain, United Kingdom and USA).

The development is located approximately seven kilometres (km) northeast of Wellington in New South Wales (NSW). It is wholly within the Dubbo Regional Local Government Area (LGA). The development involves the construction, operation and decommissioning of a 330 megawatt (MW) ac / 415 MW peak solar farm and associated infrastructure.

The development consent was granted by a delegate of the Minister for Planning and Public Spaces under section 4.38 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act).

1.1 Purpose of Environmental Management Strategy

This Environmental Management Strategy (EMS) has been prepared to comply with the relevant conditions within the SSD 8895 development consent, and other applicable statutory requirements and obligations during the construction, operation and decommissioning of the development.

The purpose of this EMS is to:

- outline the strategic environmental management framework for the construction and operation of the development
- identify the statutory approvals that apply to the development
- identify the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development
- establish procedures to:
 - inform the community and relevant Government agencies about the operation and environmental performance of the development
 - manage and respond to complaints and resolve any disputes
 - respond to any non-compliances or emergencies, and
- outline the monitoring program for the development, to ensure ongoing compliance with all relevant statutory approvals.

This EMS is an overarching document which encompasses several other plans and strategies as outlined in **Section 1.3.2.**

The EMS has been prepared having regard to the Guideline for the *Preparation of Environmental Management Plans* (DIPNR, 2004), the *Draft Post Approval Guideline for Environmental Management Plans* (DPE 2018) and AS/NZS ISO 14001.

The development consent (SSD 8895) included several administrative and environmental conditions, as well as environmental management and reporting requirements, that necessitate the preparation of this EMS. This EMS has been prepared to meet the requirements of Condition 1 within Schedule 4 of the development consent. The authors of this EMS also acknowledge that other relevant administrative and environmental conditions, as well as environmental management and reporting requirements, apply to this EMS and have been addressed throughout this document.

A compliance matrix for this EMS and Schedule 4 (Condition 1) requirements is presented in **Table 1.1**.

A detailed analysis of all conditions of consent and their relevance to the EMS (and broader LSbp Integrated Management System) is then presented in **Appendix 2**. It identifies how these conditions have been addressed within the Integrated Management System for the development and summarises the timing and accountabilities for implementation of these requirements.

Table 1.1 Relevant EMS Development Consent Conditions (SSD 8895)

Schedule	Condition	Where Addressed in this EMS
4	Condition 1 Prior to commencing the development, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must:	This EMS, the development will not commence until the EMS has been approved by the Planning Secretary.
	a) provide the strategic framework for environmental management of the development;	Section 1.3
	b) identify the statutory approvals that apply to the development;	Section 2.1
	c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Section 4.0
	d) describe the procedures that would be implemented to:	-
	keep the local community and relevant agencies informed about the operation and environmental performance of the development;	Section 6.0
	receive, handle, respond to, and record complaints;	Section 6.3.1
	resolve any disputes that may arise;	Section 6.3.1.1
	respond to any non-compliance;	Section 10.1.2
	respond to emergencies;	Refer to Emergency Plan prepared in accordance with Condition 29 of Schedule 3

Schedule	Condition	Where Addressed in this EMS
	e) include:	-
	references to any plans approved under the conditions of this consent; and	Section 1.3.2
	a clear plan depicting all the monitoring to be carried out in relation to the development.	Section 7.2
	Following the Planning Secretary's approval, the Applicant must implement the Environmental Management Strategy.	Section 4.0

1.2 Overview of the Development

1.2.1 Development Setting

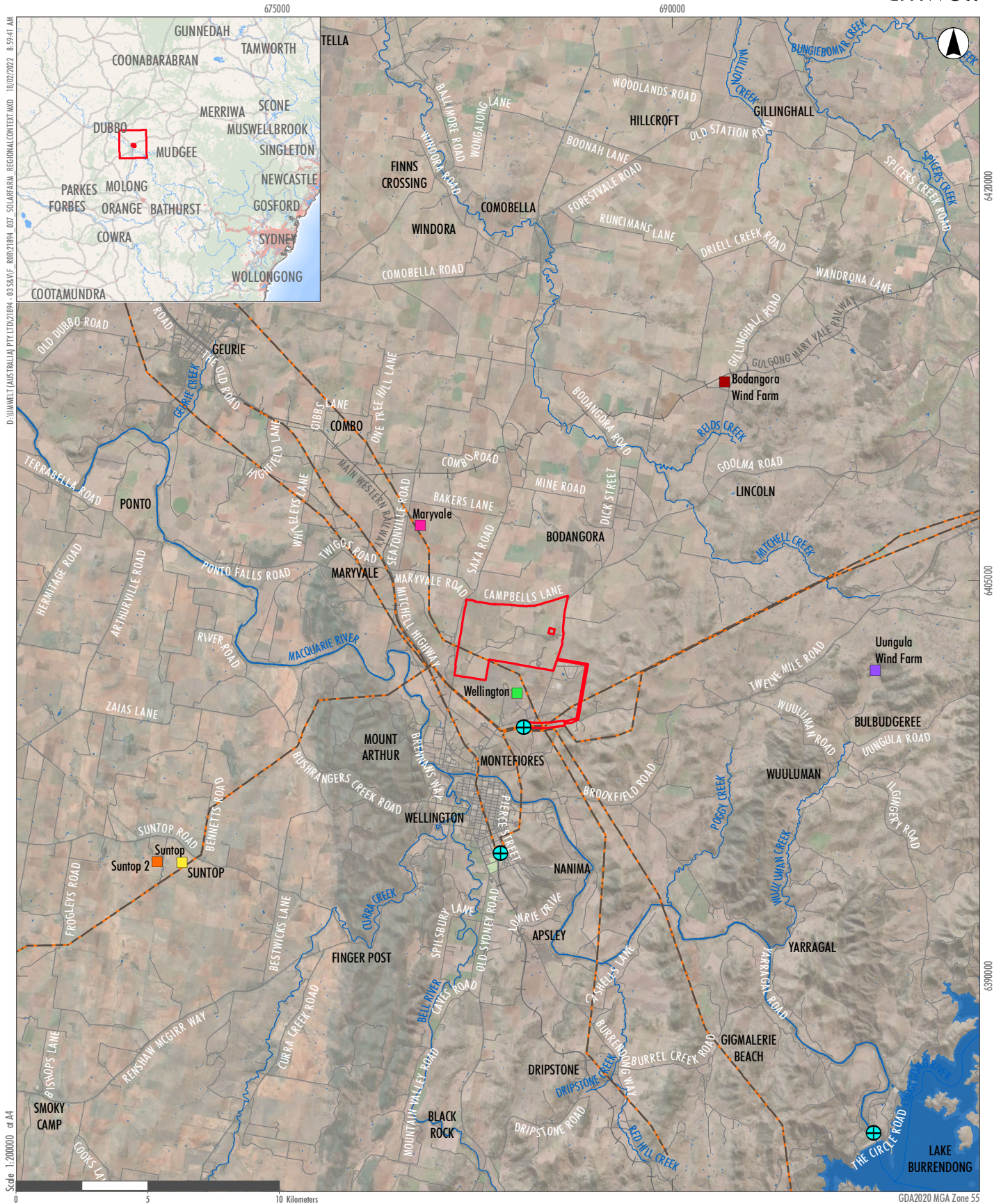
The development is in a predominantly agricultural setting, approximately 3.4 km southeast of the village of Bodangora, and approximately 8 km from Wellington (refer to **Figure 1.1**). The nearest regional centre, Dubbo, is approximately 40 km northwest of the development area.

The development area is located immediately adjacent to the Wellington Correctional Centre and approximately 300 metres (m) northwest of the Macquarie Correctional Centre.

The development area is adjacent to the Wellington Solar Farm, which will be operational in early 2022 is also owned by LSbp. The surrounding area is emerging as a key centre of renewable energy production in NSW, and forms part of the NSW Government's Central-West Orana Renewable Energy Zone (REZ).

Three other solar farm projects have been approved within a 50 km radius of the development, including the Maryvale Solar Farm which is located approximately 2.5 km northwest of the development area. There are several wind farms in the vicinity of the development and/or within the Central-West Orana REZ. Closest to the development are the Bodangora Wind Farm to the north-east (operational), and the Uungula Wind Farm to the east (approved, SSD 6687). Uungula Wind Farm is of particular relevance to the development with respect to potential cumulative impacts, if constructed concurrently.

The development area is zoned RU1 Primary Production and SP2 Electricity Supply and is comprised of gently undulating land which has been heavily disturbed by historical agricultural activity.



Legend

- Development Site
- ⊕ Existing Substation
- Existing Transmission Lines
- Road
- Railway Line
- Drainage Line
- Water Body

Nearby Renewable Energy Projects

- Maryvale Solar Farm
- Suntop Solar Farm
- Suntop Stage 2 Solar Farm
- Ungula Wind Farm
- Wellington Solar Farm
- Bodangora Wind Farm

FIGURE 1.1

Wellington North Solar Farm
Regional Context

1.2.2 Development Area

The development area is considered as the total area of the development, including the development boundary. It comprises approximately 978 hectares of freehold land, Crown land and road reserves contained within the development boundary.

The development area is comprised of three key components, including:

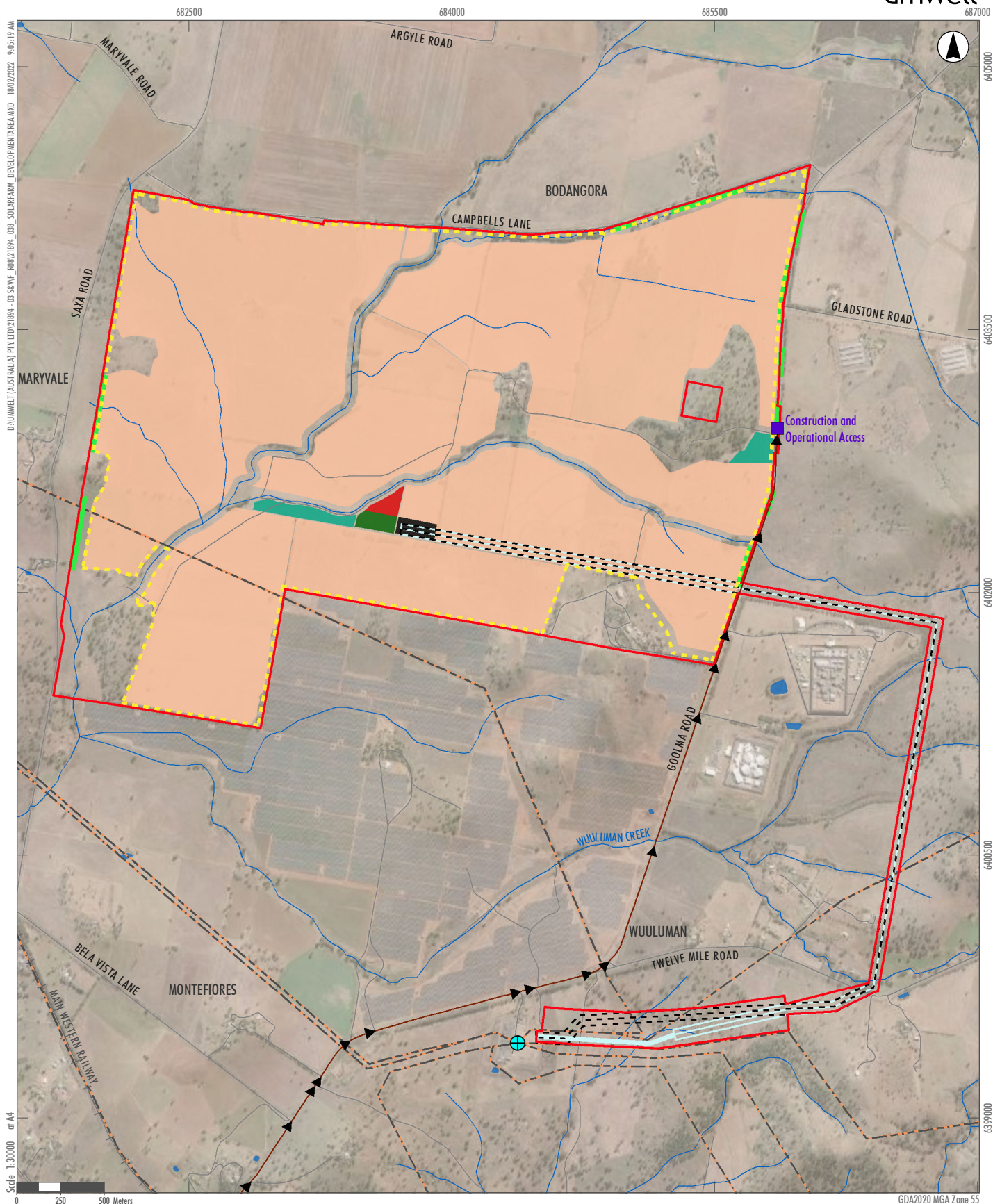
1. Solar farm site
2. Transmission line route
3. Transgrid's Wellington substation connection, however the Transgrid infrastructure and assets, and most of the connection works would be approved and undertaken under Part 5, Division 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act).

The solar farm site contains all solar infrastructure and is made up of Lots 75-84 and 119-121 DP 2987, Lots 1 and 2 DP 1104720, Lot 3 DP 976701, Lot 1 DP 808748, Lot 100 DP 750760, Lot 1 DP 664645 and Lot 1 DP 1206579.

The transmission line route contains the transmission lines and associated transmission line infrastructure and is made up of Lot 106 DP 2987, Lot 73 DP 750760, Lot 2 DP 1053234, Lot 32 DP 622471, Lot 1 DP 1226751, Lot 1 DP 1249719 and Lot 7 DP 810725.

The new transmission lines will connect to Transgrid's Wellington substation, located approximately 2 km south of the development (Lot 1 DP 1226751).

The development area is shown below in **Figure 1.2**.



Legend

- | | | |
|---|--|--|
| Development Site | Construction Compound | Transmission Line Option A |
| + Existing Substation | Future Battery Storage | Transmission Line Option B |
| Existing Transmission Lines | Intersection Upgrade | Transport Route |
| Road | Operations and Maintenance Facility | Landscaping |
| Railway Line | Solar Arrays | Fence |
| Drainage Line | Substation | Construction and Operational Access |
| Water Body | | |

FIGURE 1.2

Wellington North Solar Farm
Development Area

1.2.3 Components and Features

The key components and features of the development include:

- approximately 1.2 million photovoltaic (PV) modules
- approximately 155 inverter stations
- underground electrical conduits and cabling to connect the solar panels, combiner boxes and inverters
- an onsite substation containing up to two transformers and associated switchgear, occupying an area of approximately two hectares
- a 330 Kilovolt (kV) transmission line connecting to Transgrid's Wellington substation
- construction and operational access via a single access point off Goolma Road (also known as the primary site access)
- transmission line access points off Goolma Road and Twelve Mile Road
- road upgrades, including upgrades to facilitate construction and operational access
- internal access tracks and upgrades to existing access roads (including watercourse crossings), where required
- an office and amenities building, operations and maintenance building and car park
- perimeter security fencing and CCTV
- a landscaped vegetation buffer.

The PV modules will be mounted on either east-west horizontal tracking systems or north-orientated fixed-tilt structures and will have a maximum height of approximately 4 m. The current solar farm design has also identified the potential for bi-facial single-axis tracking modules; however, this is subject to change following detailed design.

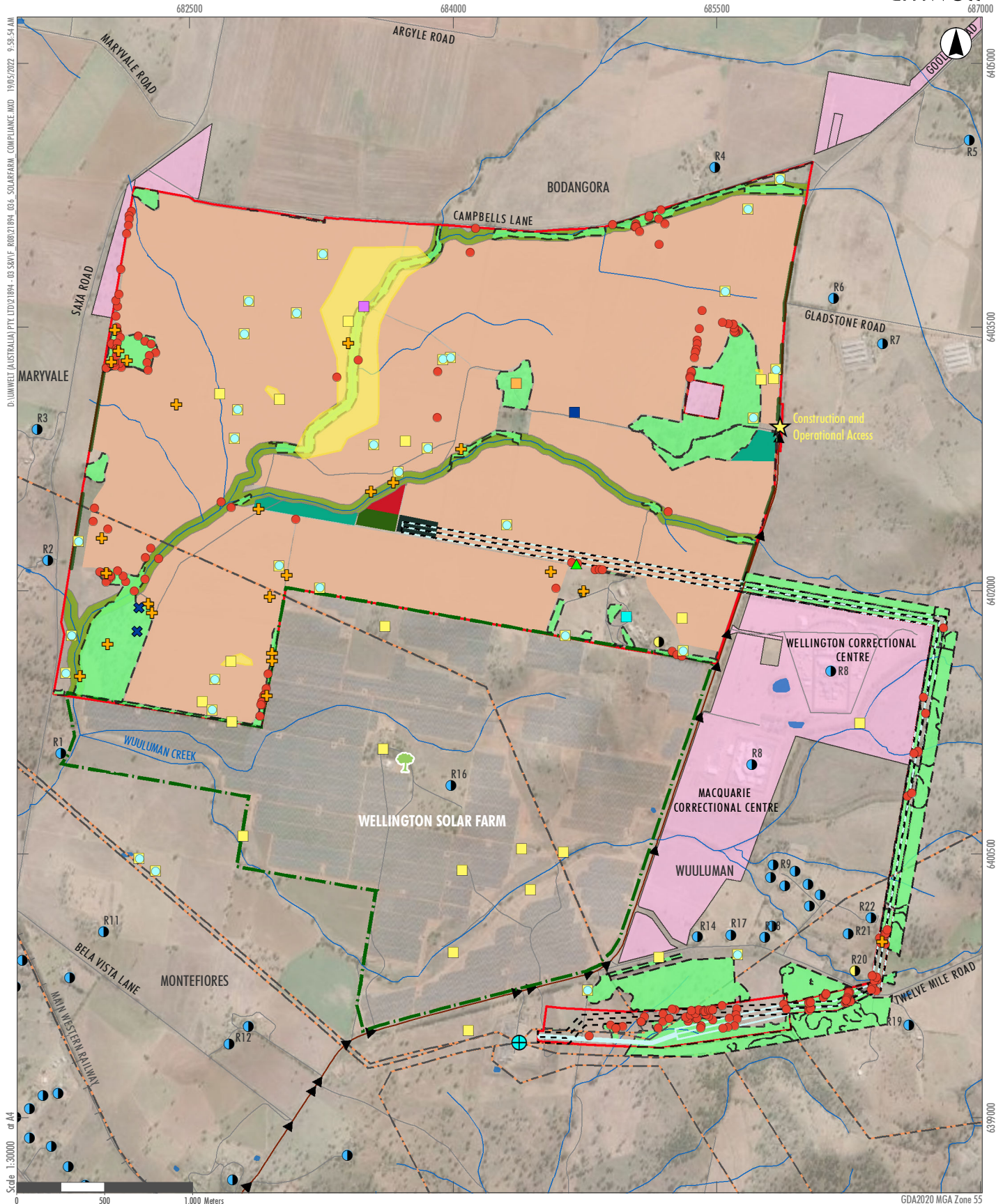
The inverter stations will allow conversion of DC module output to AC electricity and transformation to medium voltage for site reticulation (typically 22kV or 33kV). The inverter stations will be approximately three m high.

The approved transmission line route is shown in **Figure 1.1** and **Figure 1.2**. The transmission line will have an associated easement up to 60 m wide. The approved development includes two overhead and/or underground options for the transmission line for the construction of the final 1.2 km of the transmission line (nearest to the Wellington substation). The two alternative transmission line routes (Option 1 and Option 2) are shown in **Figure 1.2**.

Water usage during the construction period will be minimal and will be primarily limited to dust suppression activities. Water will be sourced from onsite groundwater bores (subject to obtaining the necessary Water Access Licences) and/or a water filling station operated by Dubbo Regional Council (Council). Use of the water filling station will be undertaken by arrangement with Council, and water would then be trucked to the development area. During operations, potable water supplies will be trucked to the development area and stored in tanks near the office and amenities building.

The approved development layout includes an area for a potential future battery energy storage system (BESS); however, the construction or installation of a BESS will require a modification to SSD 8895 or a separate development consent.

The approved development layout including all key features, components and constraints (reproduced from Appendix 1 of the development consent) is shown in **Figure 1.3** below.



Legend

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> Development Site Wellington Solar Farm Existing Substation Crown Land (Moderate) Existing Transmission Lines Road Railway Line Drainage Line Buffer (High) | Development Components and Features <ul style="list-style-type: none"> Construction Compound Future Battery Storage Intersection Upgrade Operations and Maintenance Facility Solar Arrays Substation Landscaping Construction and Operational Access | <ul style="list-style-type: none"> Transmission Line Option A Transmission Line Option B Transport Route Associated Receiver Non-associated Receiver Rocky Outcrop (High) Hollow-bearing Trees Native Vegetation to be Retained |
|---|---|---|

Heritage Items

- Noonee Nyrang Homestead
- Soil Conservation Research Facilities
- Stone Culvert
- Stone Trough
- Artefact (AHIMS)
- Modified Tree (Carved or Scarred) (AHIMS)
- Artefact Scatter
- European Survey Marker Tree

- Isolated Finds
- Possible Scarred Tree

FIGURE 1.3

Wellington
North Solar
Farm Approved
Development
Layout

1.2.4 Development Phase Activities

1.2.4.1 Early Works – Construction Activities

The early works phase of the development includes preparatory works which must occur prior to the commencement of main construction activities.

To comply with the conditions of the development consent, these early works are limited to:

- road upgrades required under Condition 6 of Schedule 3 of the development consent
- building/road dilapidation surveys
- vegetation buffer planting
- installation of fencing
- artefact survey and/or salvage
- overhead line safety marking
- geotechnical drilling
- surveying.

Early works are currently scheduled to start at the end of Q1/beginning of Q2 in 2022, and the construction period for these early works will be approximately three months. As per Condition 16 within Schedule 3 of the development consent, construction hours will generally be limited to Monday to Friday 7:00 am to 6:00 pm and Saturday 8:00 am to 1:00 pm, with no works on Sundays or Public Holidays. Some works outside these hours may occur as permitted by Condition 16 of Schedule 3. Early works will have a construction workforce of approximately 30 workers.

A key activity within the early works will be the road upgrades required at the intersection of Goolma Road and the construction and operational access. These works will consist of a new Basic Right Turn (BAR) Auxiliary Left Turn (AUL) treatment, designed and constructed in accordance with the *Austroads Guide to Road Design* (as amended by Transport for NSW (TfNSW) supplements). The existing entry point on Goolma Road (immediately south of the new construction and operational access) will be closed and the road reserve will be re-instated to match the surrounding roadside landform.

With early works focusing on the road upgrades required under Condition 6 of Schedule 3 of the development consent; some residual approved early work construction activities may occur during the main works period described below.

1.2.4.2 Main Works – Construction Activities

Main works are currently scheduled to start at the end of Q2/beginning of Q3 in 2022, and the main works construction period will last for 18 to 24 months, including a peak period of approximately nine months. Consistent with early works, the main works construction hours will generally be limited to Monday to Friday 7:00 am to 6:00 pm and Saturday 8:00 am to 1:00 pm, with no works on Sundays or Public Holidays.

Some works outside these hours may, consistent with early works, occur as permitted by Condition 16 of Schedule 3.

The development will generate around 400 direct full-time equivalent (FTE) jobs during construction (maximum of 250 at any one time). FTE, and associated traffic movements are directly relevant to the Traffic Management Plan (TMP) and Accommodation and Employment Strategy (AES) required under the development consent, referenced in this EMS and incorporated into the LSbp Integrated Management System. Taking a precautionary approach the TMP has aligned its assumptions with the *Wellington North Solar Plant – Traffic Impact Assessment: Goolma Road* (GHD, March 2021) and assumed the development will have a worst-case construction workforce of approximately 400 workers during the peak period. This precautionary and worst-case assumption is appropriate for the TMP objectives but has not been adopted within the AES, or other plans required under the development consent, or as part of the LSbp Integrated Management System.

The Integrated Management System is discussed further in **Section 1.3** of this EMS.

Construction activities will include:

- site establishment and enabling works including fencing, ground preparation, construction of the internal access tracks, preliminary civil works and drainage works
- installation of steel post and framing system for the solar panels
- installation of underground cabling and installation of power conversion (inverter) stations and footings
- installation of solar panels
- construction of the operations and maintenance facility
- construction of the on-site substation, transmission line and connection to Transgrid’s Wellington substation.

During the peak period, the development is expected to generate up to 267 two-way construction traffic movements, including 55 heavy vehicle movements, 80 shuttle bus movements (associated with worker transport) and 132 light vehicles movements.

1.2.4.3 Operation

The expected operational life of the development is approximately 35 years, however infrastructure upgrades throughout the development lifecycle may extend its operational life.

The key activities that would be undertaken during operation include:

- visual inspections, maintenance and cleaning of solar panels and the substation
- vegetation management:
 - grazing of sheep
 - mechanical vegetation maintenance
 - maintaining groundcover vegetation
 - maintenance of landscaping, including the vegetation buffer
- site security and operational response

- replacement of equipment and infrastructure
- pest plant and animal control.

The development will generate 2-4 full time jobs during the operation and maintenance phase.

1.2.4.4 Decommissioning

At the end of the development's operational life, unless the Planning Secretary agrees otherwise, the solar farm infrastructure will be decommissioned and removed. This will include removal of solar panels and foundation posts, the substation and associated connections and underground cabling, the operations and maintenance facility, carpark and fencing.¹

Disturbed areas will be rehabilitated to ensure the development area is safe, stable and non-polluting. The development area will be restored to its pre-development agricultural land capability (at least Class 3).

1.3 Strategic Environmental Management Framework

The strategic environmental management framework for the development is shown conceptually in **Figure 1.4** and described in the sections below.

Figure 1.4 Strategic Environmental Management Framework for Wellington North Solar Farm



Aims and Objectives of Strategic and Integrated Environmental Management

The overall intent of this framework is to achieve the specific environmental performance criteria established under the development consent, and other environmental performance measures implemented by LSbp for its employees, contractors and visitors.

In achieving this, and as such complying with Condition 1 of Schedule 2, LSbp will ensure all reasonable and feasible measures are implemented to prevent and/or minimise any material harm to the environment that may result from the construction, operation, upgrading or decommissioning of the development.

1.3.1 LSbp Integrated Management System

LSbp has a robust Integrated Management System, covering all Health, Safety, Environment and Quality (HSEQ) aspects of its operations. Under the Integrated Management System, LSbp commits to:

- Provide a safe and healthy working environment for all personnel, including employees, contractors and visitors, where hazards and risks associated with its operations are identified and risk management measures are implemented.

¹ Fencing of Aboriginal heritage items is required under Condition 23 of Schedule 3 of the development consent

- Identify and comply with all applicable legislative requirements and maintain systems to meet these requirements in the countries the company operates.
- Maintain a consistent and documented Integrated Management System.
- Monitor the effectiveness of the Integrated Management System through periodic reviews, audits, customer feedback and other means as appropriate.
- Ensure that incidents and nonconformities are investigated, and corrective actions implemented to prevent reoccurrence.
- Take account of external bodies and local community issues related to its business activities.
- Take account of the implications of the HSEQ aspects of investment decisions.
- Protect the environment in all aspects of its business and operations, to prevent any adverse environmental effects.
- Minimise the environmental impact, for the life cycle of all plant, equipment and other physical assets under its control.
- Carefully select and use materials and resources to reduce waste to a minimum with a focus on striving to prevent pollution.
- Continually promote a Health and Safety awareness culture and environmental sustainability throughout the organization.
- Plan and conduct its activities responsibly and in a manner that will assure the protection and safety of its staff, contractors, visitors, members of the public and the environment.
- Ensure LSbp senior management always lead by example in HSEQ related issues.
- Actively promote the involvement of staff in all HSEQ related matters.
- Establish HSEQ targets, monitor key indicators and review and evaluate performance against these targets to drive continuous improvement.
- Provide awareness, training, supervision and HSEQ expertise to maintain the integrated management system and to achieve the HSEQ targets.

The LSbp executive team and the respective Team Leaders are responsible for the implementation of this policy across the organisation.

LSbp's Integrated Management System is certified under ISO 14001:2015 - *Environmental Management Systems - Requirements with Guidance for Use*. This standard was last reviewed and confirmed in 2021, therefore this 2015 version remains current.

1.3.2 Wellington North Solar Farm Integrated Management System

LSbp has developed a project-specific Integrated Management System for the Wellington North Solar Farm, which will include the implementation of this EMS and a comprehensive suite of management plans and strategies prepared in accordance with the conditions of SSD 8895.

These management plans and strategies comprise:

- a Traffic Management Plan (TMP) - Condition 9 of Schedule 3
- a Landscaping Plan (LP) - Condition 11 of Schedule 3
- a Biodiversity Management Plan (BMP) - Condition 15 of Schedule 3
- a Heritage Management Plan (HMP) - Condition 23 of Schedule 3
- an Emergency Plan (EP) - Condition 29 of Schedule 3, and
- an Accommodation and Employment Strategy (AES) - Condition 31 of Schedule 3.

The EMS and other management plans and strategies listed above will be prepared in consultation with relevant Government agencies, and to the satisfaction of the Planning Secretary, in accordance with the conditions of the development consent. These plans will apply to the construction, operation and decommissioning of the development.

Targeted consultation for the EMS was not required under the development consent. The EMS was however submitted to the Department for review during its preparation. The review correspondence, and where that feedback has been addressed is documented in **Appendix 1** of this EMS.

In addition, a Construction Environmental Management Plan (CEMP) will be prepared and implemented by the Engineering, Procurement and Construction (EPC) Contractor for the construction phase and first two years of operations. The CEMP may incorporate subplans to address key environmental aspects and to prevent and/or minimise any material harm to the environment.

An Operational Environmental Management Plan (OEMP) will be prepared and implemented by the Operations and Management (O&M) Contractor, commencing in the third year of operations, until the conclusion of operations.

As a minimum, the CEMP and OEMP will address the following matters:

- erosion and sediment control
- spill and contamination response
- noise and vibration management
- waste management
- flood response
- surface water management
- bushfire management
- ground cover management.

The CEMP and OEMP (including any incorporated sub-plans) will be prepared in accordance with this EMS.

Neither the CEMP or OEMP require the Planning Secretary's approval and will subject to LSbp's internal review and approval processes.

Section 4.0 sets out the roles, responsibilities and accountabilities of key personnel for the implementation of the Integrated Management System and compliance with relevant statutory requirements, including the conditions of SSD 8895.

1.4 Environmental Targets and Objectives

Table 1.2 below sets out the key environmental targets and objectives for the construction and operation of the development.

Table 1.2 Environmental Objectives and Targets for Development

Objective	Targets	Measure
Construction and operation of the development in accordance with SSD 8895 and all other relevant statutory requirements	<p>Compliance with the conditions of the development consent</p> <p>Compliance with this EMS and other management plans and strategies required under SSD 8895 (see Section 1.3.2 above)</p> <p>Compliance with relevant requirements of Section 138 Approval under the <i>Roads Act 1993</i> (see Section 2.1)</p>	Independent Environmental Audits (see Section 11.1), construction compliance reporting
Implementation of the Integrated Management System	Prevention and/or minimisation of any material harm to the environment resulting from the construction, operation, upgrading or decommissioning of the development	Implementation of all reasonable and feasible measures
	Compliance with this EMS, other management plans and strategies, and the CEMP and OEMP	Construction compliance reporting, LSbp internal audits and/or management review processes
Community engagement	<p>Keep community stakeholders informed about the development (see Section 6.1)</p> <p>Provide communications channels for community feedback, record and respond to complaints in a timely manner and implement the dispute resolution process outlined in Section 6.3)</p>	Review of feedback register (see Section 6.0)
Continuous improvement	<p>Develop lessons learned programs in response to any reportable incidents or non-compliances</p> <p>Review and refine employee and contractor training programs over the life of the development</p>	Construction compliance reporting, LSbp internal audits and/or management review processes, including internal review of this EMS

Objective	Targets	Measure
Decommissioning and rehabilitation of the development area in accordance with SSD 8895	<p>Compliance with rehabilitation objectives in Condition 32 of Schedule 3 of the development consent</p> <p>Compliance with this EMS and other relevant management plans and strategies identified in Section 1.3.2 above, which will be updated prior to decommissioning</p>	<p>LSbp internal audits and/or management review processes and compliance with any requirements issued by the Planning Secretary under Condition 4 of Schedule 2 of the development consent</p>

2.0 Statutory Context

This section provides an overview of the statutory context for the development for both Commonwealth and State legislation relevant to the development.

2.1 Overview of Relevant Legislation

Table 2.1 below identifies the statutory approvals that apply to the development under relevant Commonwealth and NSW legislation.

Section 4.0 and **Appendix 2** outline the respective responsibilities and accountabilities of LSbp, its EPC Contractor and O&M Contractor for compliance with relevant Commonwealth and NSW legislation.

There are no additional approvals, permits or licenses applicable under the relevant legislation, beyond the requirements presented within the development consent, unless noted in **Table 2.1** below.

Table 2.1 Statutory Approvals that Apply to the Development

Jurisdiction	Relevant Legislation	Legislation Obligation	Relevance to Development
Commonwealth	Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)	<p>Provides a framework to manage impacts on matters of national environmental significance, including:</p> <ul style="list-style-type: none"> • World heritage properties • National heritage places • Ramsar wetlands • Nationally threatened species and communities • Migratory species protected under international agreements • The Commonwealth marine environment • Nuclear actions. 	<p>The development was not referred to the Commonwealth as no significant impacts on matters of national environmental significance (MNES) were anticipated. Nevertheless, there is a general duty to avoid impacts on MNES in carrying out the development.</p>
State (NSW)	Fisheries Management Act 1994 (FM Act)	<p>Provides a framework to conserve, develop and share the fishery resources of the State for the benefit of present and future generations.</p> <p>Sets out the requirements for obtaining a permit under Part 7 of the Act, which is required for:</p> <ul style="list-style-type: none"> • Activities involving dredging and reclamation work • Activities temporarily or permanently obstructing fish passage • Using explosives and other dangerous substances • Harming marine vegetation 	<p>Separate permits under the FM Act are not required to carry out the development.</p> <p>Consistent with commitments in the Environmental Impact Statement (EIS), the design and construction of watercourse crossings will have regard to the following documents:</p> <ul style="list-style-type: none"> • Why do fish need to cross the road? Fish Passage Requirements for Waterway Crossings (Fairfull & Witheridge, 2003) • Policy and Guidelines for Fish Friendly Waterway Crossings (NSW DPI, 2003).

Jurisdiction	Relevant Legislation	Legislation Obligation	Relevance to Development
State (NSW)	Heritage Act 1977 (Heritage Act)	Provides a framework for the protection and conservation of items of State or Local Heritage significance. Sets out the requirements for obtaining an excavation permit for any proposed disturbance or excavation of land with potential to interact with a heritage item.	By operation of section 4.41(1)(c) of the EP&A Act, no approvals under Part 4 or excavation permits under section 139 of the Heritage Act are required for the carrying out the development. Potential impacts on items of local heritage significance will be managed in accordance with the Heritage Management Plan. The notification procedures in Section 10.3 will be implemented in respect of any archaeological relics that may be discovered or located within the Project Area.
State (NSW)	National Parks and Wildlife Act 1974 (NP&W Act)	Provides a framework for the establishment, preservation and management of national parks, reserves and natural historic sites. It also provides a framework for protecting Aboriginal objects and places. Sets out the requirements for obtaining an Aboriginal heritage impact permit for proposed works that could potentially harm an Aboriginal object or declared Aboriginal place.	By operation of section 4.41(1)(d) of the EP&A Act, an Aboriginal heritage impact permit (AHIP) is not required under section 90 of the NP&W Act for the carrying out of the development. Consistent with condition 22 of Schedule 3 of the development consent, LSbp will ensure that the development does not cause any direct or indirect impacts on the Aboriginal heritage items identified in Table 1 in Appendix 3 (Wellington Nth IF11, IF13, IF17, ST1 and ST2) or located outside the approved development footprint. Impacts to other Aboriginal heritage items within the development footprint will be managed in accordance with the Heritage Management Plan (HMP).
State (NSW)	Protection of the Environment Operations Act 1997 (POEO Act)	Provides a framework for the management of air, noise, water and waste pollution. Sets out the requirements for obtaining an environment protection licence for scheduled development work and the carrying out of scheduled activities.	The development is not a scheduled activity under Schedule 1 of the POEO Act. Therefore, an Environment Protection Licence is not required to carry out the development. However, duties and obligations under Chapter 5 of the POEO Act regarding the management of pollution and notification of pollution incidents will apply to the development (see Section 10.2).

Jurisdiction	Relevant Legislation	Legislation Obligation	Relevance to Development
State (NSW)	Roads Act 1993 (Roads Act)	Provides controls for the classification of roads and the declaration of public authorities for both classified and unclassified roads. This Act regulates the carrying out of various activities in, on and over public roads.	An approval is required under section 138 of the Road Act prior to the commencement of the road upgrades required under Condition 6 of Schedule 3 of the development consent. The relevant roads authority for works within the Goolma Road reserve is Transport for NSW (TfNSW). The EPC Contractor will obtain any necessary approvals under the Roads Act as part of the detailed design of the road upgrades.
State (NSW)	Water Management Act 2000 (WM Act)	Provides a framework for sustainable and integrated management of NSW water resources for the benefit of both present and future generations. Sets out requirements for controlled activities, including activities that are carried out on waterfront land.	By operation of section 4.41(1)(g) of the EP&A Act, a controlled activity approval is not required for works on waterfront land (such as the construction of creek crossings) under section 91 of the WM Act. However, consistent with condition 26(e) of Schedule 3, LSbp will ensure that solar panels and any ancillary infrastructure are setback by a distance of at least 40 m from Wuuluman Creek, and that all works are undertaken in accordance with <i>Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018)</i> , unless DPIE Water agrees otherwise. LSbp will also obtain all necessary water licences for the carrying out of the development, consistent with the requirements of the WM Act and/or Water Act 1912 (as relevant).

3.0 Risk Management

LSbp will adopt a risk-based approach to the environmental management of the development. This risk-based approach will include consideration of statutory and legal risks as well as the concerns of the community and other key stakeholders.

3.1 Purpose, Objectives and Implementation

Risk assessments will be undertaken at various stages of the development's construction, operation and decommissioning. An initial risk assessment will be undertaken prior to the commencement of construction to identify and evaluate environmental risks and develop practical construction management measures to address these risks. The same risk assessment framework will then be applied on an as needed basis for the duration of the construction phase, and during the operational and decommissioning phases, in instances where:

- a new activity is undertaken or the nature of an activity materially changes, or
- a new environmental risk is identified.

The purpose of these risk assessments is to:

- identify activities, events or outcomes with the potential to adversely affect the natural/built environments and human health
- identify the likelihood and consequences of potential environmental or health impacts and assign a risk rating
- consider whether the risk can be appropriately managed using environmental protection measures
- evaluate the residual risk of that activity, with implementation of the proposed environmental protection measures.

Risk assessments will be documented within the LSbp Integrated Management System, in relevant management plans (see **Section 1.3.2**) and in applicable Safe Work Method Statements/Job Safety Analysis for specific construction and operational (and future decommissioning) activities.

3.2 Risk Assessment Methodology

An indicative risk assessment methodology for the development is in **Table 3.1**, **Table 3.2** and **Table 3.3** outlined below. The final methodology will be determined by the EPC/O&M Contractor, having regard to *AS/NZS ISO 31000:2009 Risk Management – Principles and Guidelines* (Standards Australia 2009).

Table 3.1 Categorisation of Likelihood of Impact

Likelihood	Measure
Highly likely	Is expected to occur in most circumstances
Likely	Will probably occur during the life of the development (or a specific phase of the development)
Possible	Might occur during the life of the development (or a specific phase of the development)
Unlikely	Could occur, but considered unlikely or doubtful
Rare	May occur in exceptional circumstances

Table 3.2 Categorisation of Consequences of Impact

Likelihood	Measure
Minor	Minor incident of environmental damage that can be reversed
Moderate	Isolated but substantial instances of environmental damage that could be reversed with intensive efforts
High	Substantial instances of environmental damage that could be reversed with intensive efforts
Major	Major loss of environmental amenity and real danger of continuing impacts
Critical	Widespread loss of environmental amenity and irrecoverable environmental damage

Table 3.3 Risk Rating

Likelihood	Consequence				
	Minor	Moderate	High	Major	Severe
Highly likely	Medium	High	High	Severe	Severe
Likely	Low	Medium	High	High	Severe
Possible	Low	Medium	Medium	High	Severe
Unlikely	Low	Low	Medium	High	High
Rare	Low	Low	Low	Medium	High

4.0 EMS Implementation

As the Applicant and owner of the development, LSbp must ensure it is designed, constructed and operated in compliance with the development consent. However, actions to achieve compliance will be undertaken by the:

- EPC Contractor and sub-contractors during construction, and
- O&M Contractor and sub-contractors during operation.

Sections 4.1 and 4.2 outline the division of responsibilities between LSbp and its contractors, as well as the roles, responsibilities and accountabilities of key personnel for the implementation of the EMS.

4.1 Construction

Under the terms of the EPC Contract, the EPC Contractor has control and is responsible for the management of the Development Area during construction and initial operations. Relevant aspects of the EPC Contract are summarised below:

- The EPC Contractor is required to perform the works in accordance with all relevant laws and government approvals (including the development consent), as well as good industry practice.
- The division of responsibilities for compliance with the conditions of the development consent are set out in the EPC Contract and reflected in **Table 4.1** below and **Appendix 2**. The EPC Contractor is responsible for compliance with all conditions of the development consent unless the EPC Contract expressly provides otherwise.
- The EPC Contractor must implement all management plans and strategies required under the development consent.
- The EPC Contractor is responsible for the care and management of the Development Area and must control site access (including the installation of temporary fencing and security systems as required, and security staff and services as deemed necessary).
- The EPC Contractor is required to provide all necessary construction equipment and must ensure that all equipment complies with all relevant laws and is otherwise fit for purpose.
- The EPC Contractor is required to manage the planning, scheduling, design and construction process for the construction and initial operations phase of the development.

Table 4.1 below sets out key accountabilities of Project personnel during this phase of the development.

Table 4.1 Key accountabilities for EMS implementation: Construction

Role	Responsibilities	Accountabilities
LSbp Project Team The Project Team will comprise the following personnel (as a minimum): LSbp Project Manager LSbp Site Manager LSbp HS&E Manager	Prepare and submit the EMS and other management plans and strategies required under the development consent and submit (as required) to the Department for approval Ensure compliance with the development consent as set out in the EPC Contract (refer to Appendix 2) Engage suitably qualified personnel to manage each phase of the development Maintain website and communication channels including email, postal address and phone line Notify the Department of commencement of construction Notify the Department of an incident or non-compliance Identify if a modification to the development consent is required Review internal environmental audit reports and ensure environmental performance is maintained Where necessary (refer to Section 9.0), revise the EMS and other management plans and strategies and submit (as required) for approval to the Department	As the Applicant, LSbp is accountable for ensuring compliance with the development consent (consistent with the EPC Contract). This includes preparation of management plans and strategies, maintaining access to information and communication channels, providing notifications to the Department and the review of internal environmental audits to ensure environmental performance
EPC Project Manager	Ensure compliance with development consent Engage suitably qualified personnel to manage each phase of the development Ensure compliance with environmental management system and associated plans Liaise with Council regarding road dilapidation surveys and repairs Ensure environmental monitoring is undertaken Ensure appropriate approvals and permits are obtained. Engage suitably qualified sub-contractors Review any plans/strategies or programs required by a development consent and notify LSbp of any required changes Notify LSbp Project Manager prior to and on commencement of construction and operation Immediately notify LSbp Project Manager of any non-compliances or incidents Participate in Independent Environmental Audits and implement recommendations Where necessary (refer to Section 9.0), revise the EMS and other management plans and strategies and submit (for approval to LSbp)	The EPC Project Manager is responsible for providing general support to the site manager and HSE management
EPC Site Manager	Maintain a working knowledge of the environmental management system and environmental management plans Coordinate EPC incident response, including ensuring incident investigation is undertaken and corrective actions carried out	The EPC Site Manager is responsible for the general supervision and day-to-day

Role	Responsibilities	Accountabilities
	<p>Ensure relevant training and qualifications are completed by personnel</p> <p>Maintain training records for site personnel</p> <p>Maintain visitor register</p> <p>Facilitate pre-start meetings</p> <p>Participate in Independent Environmental Audit and implement recommendations</p>	<p>coordination of works on site.</p> <p>The EPC Site Manager is responsible for ensuring all works and workers comply with all management plans and strategies.</p>
EPC Health, Safety and Environment (HSE) Coordinator	<p>Maintain a working knowledge of the environmental management system, environmental management plans, and be aware of all environmental legislative requirements</p> <p>Maintain working knowledge of environmental risks and impacts of the development and measures required to be put in place</p> <p>Undertake a HSE Risk Assessment for the development</p> <p>Carry out site inspections and environmental monitoring</p> <p>Maintain records of compliance with the development consent and management plans</p> <p>Maintain Complaints Register and respond to complaints or nominate a delegate to respond</p> <p>Monitor the Complaints Register weekly to identify any trends in complaints</p> <p>Investigate incidents and identify preventative actions</p> <p>Prepare incident report and implement corrective actions</p> <p>Manage toolbox talks</p> <p>Review environmental management plans as required</p> <p>Participate in Independent Environmental Audits and implement recommendations</p>	<p>The EPC HSE Coordinator is responsible for overseeing the HSE management of the development.</p>
All EPC contractors and sub-contractors	<p>Undertake works in compliance with the EMS, other management plans and strategies, and the CEMP</p> <p>Complete required training and attend toolbox talks where relevant</p> <p>Notify EPC Site Manager of any non-compliance or incidents</p>	<p>All personnel are responsible for undertaking activities in accordance with the environmental management plans</p>

4.2 Operation

As with the construction phase, the division of responsibilities between LSbp and the O&M Contractor will be set out in the O&M Contract. Key responsibilities and accountabilities are reflected in **Table 4.2** below and in **Appendix 2**.

Table 4.2 Key accountabilities for EMS implementation: Operation

Role	Responsibilities	Accountabilities
LSbp Project Team The Project Team will comprise the following personnel (as a minimum): <ul style="list-style-type: none"> • Asset Manager • Environment Advisor • Caretaker/Land Manager 	Ensure compliance with the development consent as set out in the O&M Contract (reflected in Appendix 2) Maintain website and communication channels including email, postal address and phonenumber Notify the Department of commencement of operations, upgrading and decommissioning Notify the Department of incident or non-compliance Ensure environmental monitoring is undertaken Review internal environmental audit reports and implement any require actions Where necessary (refer to Section 9.0), revise the EMS and other management plans and strategies and submit (as required) for approval to the Department Identify if a modification to the development consent is required	As the Applicant, LSbp is accountable for ensuring compliance with the development consent (consistent with the O&M Contract). This includes preparation of management plans and strategies, maintaining access to information and communication channels, providing notifications to the Department, ensuring environmental monitoring is undertaken, and the review of internal environmental audits to ensure environmental performance
O&M Site Manager	Ensure compliance with the Integrated Management System Ensure the EMS and other management plans and strategies identified in Section 1.3.2 of this document are implemented Review and update the EMS and other management plans and strategies as required (see Section 8.0) Carry out site inspections and environmental monitoring Maintain complaints register and respond to complaints Manage incident response Investigate incidents and identify preventative actions Notify LSbp of incidents and non-compliances Participate in Independent Environmental Audit and implement recommendations	The O&M Site Manager is responsible for overseeing the HSE management of the development.
O&M Contractors	Operating in compliance with the EMS and other management plans and strategies identified in Section 1.3.2 of this document and the conditions of the development consent Notify O&M Site Manager of any non-compliance or incidents	All personnel are responsible for undertaking activities in accordance with the environmental management plans.

Consistent with Condition 2(a) of Schedule 4, LSbp will review and update the EMS prior to carrying out any upgrading or decommissioning works under the development consent (see **Section 8.0**). Specific roles, responsibilities and accountabilities for EMS implementation during upgrading and/or decommissioning works will be identified as part of this review process.

5.0 Training, Awareness and Competencies

This section provides an overview of HSEQ training, awareness and competencies for personnel involved in the carrying out of the development. The Integrated Management System will be implemented through environmental inductions, toolbox talks and awareness training as outlined in **Sections 5.1 to 5.4** below.

During construction, HSEQ training will be managed by the EPC Contractor (primarily the EPC HSE Coordinator and EPC Site Manager). During operations, HSEQ training will be managed by the O&M Contractor (primarily the O&M Site Manager).

Further details regarding key roles, responsibilities and accountabilities are provided in **Section 4.0**.

5.1 HSEQ Induction

All personnel (LSbp employees, contractors and sub-contractors) engaged to carry out the development will complete an online HSEQ induction prior to commencing work on-site. This induction will include an overview of:

- the Wellington North Solar Farm Integrated Management System
- statutory obligations and regulatory requirements, including compliance obligations under SSD 8895 and requirements of due diligence and care
- key roles, responsibilities and accountabilities (see **Section 4.0**)
- identification of key environmental risks, constraints and hazards, including ‘no-go zones’ identified under the development consent and the various management plans and strategies identified in **Section 1.3.2**)
- emergency procedures as set out in the EP
- incident reporting procedures (see **Section 10.0**).

Any short-term visitors (e.g. making deliveries to site) will be required to be accompanied by inducted personnel.

5.2 Pre-Start Meetings

During construction, the EPC Site Manager will lead daily pre-start meetings to discuss key HSE issues and risks. All on-site personnel will be required to attend pre-start meetings.

5.3 Toolbox Talks

Toolbox talks will be used to raise awareness and educate personnel on HSEQ-related matters.

All toolbox talks will include discussion regarding environmental issues and risks (e.g. vegetation clearance protocols, the management of unexpected heritage items, erosion and sedimentation control and noise and dust management).

Toolbox talks will be led by the EPC HSE Coordinator during construction and the O&M Site Manager during operation.

5.4 Environmental Awareness Training

Targeted environmental awareness training will be provided on an as-needed basis to employees, contractors or sub-contractors with specific authority or responsibility for environmental management or for those undertaking an activity with a high risk of environmental impact.

Environmental awareness training may be delivered by external providers or by the EPC HSE Coordinator or O&M Site Manager.

The EPC Site Manager and O&M Site Manager will be responsible for maintaining training records during construction and operations, respectively, and for ensuring that workers complete the necessary environmental awareness training prior to undertaking a specialist task or high risk activity.

6.0 Communication

6.1 Access to Information

LSbp has established a website for the development, in accordance with Condition 17 of Schedule 4 of the development consent. This website will be maintained over the life of the development and will be the principle source of information for the community. A link to the development website is provided below:

<https://www.lightsourcebp.com/au/projects/wellington-north-solar-farm/>

Documents published on the development website will include, but not be limited to, those listed in **Table 6.1** below.

Table 6.1 Documents to be Made Publicly Available

Requirement under Condition 17, Schedule 4	Documents to be made available
The EIS	The environmental impact statement for Wellington North Solar dated August 2018, the Submissions Report dated March 2019, the Amendment Report dated August 2019, the Amendment Report dated February 2021, the Amendment Report dated March 2021 and the additional information provided by the Applicant dated 15 April 2020, 14 May 2020 and 25 February 2021
Final layout plans for the development	Plans contained within this EMS and the other management plans and strategies outlined in Section 1.3.2
Current statutory approvals for the development	This development consent Any approval(s) granted under Section 138 of the Roads Act
Approved strategies, plans or programs required under the conditions of the development consent	TMP, LP, BMP, HMP, EP, AES and this EMS
The proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;	No staging is proposed, other than the separation of early works and main works within the construction phase (see Section 1.1 of this EMS) in accordance with the development consent
A 24 hr telephone line and instruction as to how complaints or enquiries about the development can be made	See Section 6.3 below
A complaints register	A feedback register is available to view on the development website
Any independent environmental audit, and the Applicant's response to the recommendations in any audit	All Independent Environmental Audit Reports and Responses will be published on the website within 60 days of submission to the Planning Secretary (see Section 11.2)
Any other matter required by the Planning Secretary	LSbp will make additional documents on the website as required by the Planning Secretary in accordance with the conditions of SSD 8895

6.2 Government Agency Stakeholders

The LSbp Project team will be the primary point of contact with Government agencies regarding compliance and environmental management issues. As outlined in **Section 4.0**, LSbp will be responsible for:

- notifying the Department of the commencement of construction and operations
- notifying the Department and other relevant agencies of an incident or non-compliance
- seeking the Planning Secretary's approval of management plans and strategies required under SSD 8895, the appointment of independent auditors and the submission of Independent Environmental Audit Reports and Responses.

6.3 Community Stakeholders

LSbp has established three main communication channels for community members to obtain information and provide feedback regarding the development:

- The development website (<https://www.lightsourcebp.com/au/projects/wellington-north-solar-farm/>).
- A development email address (info@lightsourcebp.com).
- A 24 hr phone line (1300 873 575).

In addition to the documents listed in **Table 6.1** above, the development website will include project status updates, a community feedback form and feedback register, and information about construction employment opportunities.

6.3.1 Complaints Procedure

Community members may submit complaints regarding the development via the feedback form on the development website, or via the email address or phone line specified above. Additionally, during construction, the EPC Site Manager may receive complaints directly. The EPC Site Manager's contact details will be provided to the owners of nearby non-associated receivers (refer to **Figure 1.3**) via door knocks and/or letterbox drops.

During construction, complaints will be managed by the EPC Contractor (primarily the EPC HSE Coordinator). During operations, complaints will be managed by the O&M Contractor (primarily the O&M Site Manager).

All complaints will be acknowledged (either by phone or email) within 24 hours. A written response will be provided for all complaints made in relation to the development. This response will summarise the outcomes of any investigation undertaken and a proposed action plan for addressing the concerns raised in the complaint.

Timeframes for responding to complaints will depend upon the nature and risk level of the issue raised and the need for detailed investigation. Indicative timeframes for responding to complaints are as follows:

- minor matters or matters not requiring detailed investigation (within 48 hours)
- matters requiring detailed investigation (within 5 days).

All complaints will be collated and recorded in the feedback register published on the development website. The EPC Contractor or O&M Contractor (as relevant) will provide a collated register of complaints to the LSbp Project Team on at least a monthly basis.

6.3.1.1 Dispute Resolution

If a community member is not satisfied with LSbp's response to a complaint, the matter will be referred to an independent mediator for resolution. The selected mediator will be agreed by both parties.

7.0 Site Inspections and Performance

This section outlines the environmental site inspections, monitoring and reporting for the development. A consolidated set of environmental management and/or mitigation measures (from all other plans required in accordance with the development consent) is provided in **Appendix 3** of this EMS.

Appendix 3 also includes the complete set of management and mitigation measures derived from the Landscaping Plan (LP) prepared for the development. These measures are provided within the EMS, in the format utilised for all other plans, as they did not confirm to the largely visual presentation of management practices that is presented in the LP. They are presented here to ensure consistency with all other plans, to ensure responsibilities are clearly identified

7.1 Environmental Site Inspections

Environmental site inspections of the development area will be undertaken on at least a fortnightly basis and after rainfall. These inspections will be undertaken by the:

- EPC HSE Coordinator during construction
- O&M Site Manager during operations.

Following the site inspection, the EPC HSE Coordinator or O&M Site Manager (as relevant) will complete a site inspection report identifying any actual or potential non-compliances, risks or deficiencies and establishing an action plan (including timeframes) for addressing these matters, having regard to the level of risk.

A detailed site inspection form and procedure will be documented in the CEMP and OEMP. These will be based on LSbp's standard format site inspection checklist and procedure reproduced in **Appendix 4** of this EMS, or latest version.

7.2 Environmental Monitoring and Reporting

Table 7.1 provides a consolidated summary of the Environmental Monitoring and Reporting Program for the development. Further detail regarding monitoring and reporting is provided in the relevant plans and strategies identified in **Section 1.3.2** and the consolidated measures documented in **Appendix 3**.

This section does not address incident reporting or independent audits requirements, which are discussed separately in **Sections 10.1** and **Section 11.1**, respectively.

Table 7.1 Environmental Monitoring and Reporting Program

Aspect	Relevant Condition	Description	Timing/Frequency	Relevant Plan/Strategy	Relevant Standards/Guidelines	Responsibility for Implementation	Reporting
Traffic and Transport	Conditions 2 & 3, Schedule 3	Monitoring of the number of over-dimensional and heavy vehicle movements per day	Daily for the duration of the development (construction, operations and decommissioning)	TMP, supplemented by procedures in the CEMP/OEMP	To be undertaken in accordance with protocols outlined in TMP + CEMP/OEMP	EPC HSE Coordinator (construction) O&M Site Manager (operations)	EPC and O&M observation and daily site inspection records
Traffic and Transport	Condition 4, Schedule 3	Monitoring to ensure all over-dimensional and heavy vehicles associated with the development travel to the site via Mitchell Highway, Goolma Road and Twelve Mile Road (see Appendix 4 of the development consent)	Daily for the duration of the development (construction, operations and decommissioning)	TMP, supplemented by procedures in the CEMP/OEMP	To be undertaken in accordance with protocols outlined in TMP + CEMP/OEMP	EPC HSE Coordinator (construction) O&M Site Manager (operations)	
Traffic and Transport	Condition 8, Schedule 3	Monitoring to ensure no parking associated with the development occurs on public roads, that the capacity of the roadside drainage network is not reduced and that development-related vehicles leaving the site are in a clean condition to minimise dirt being tracked onto the sealed public road network	Car parking and sediment tracking on to public roads: daily for the duration of the development (construction, operations and decommissioning) Capacity of the drainage network: after rainfall	TMP, supplemented by procedures in the CEMP/OEMP	To be undertaken in accordance with protocols outlined in TMP + CEMP/OEMP	EPC HSE Coordinator (construction) O&M Site Manager (operations)	
Landscaping	Condition 11, Schedule 3	Monitoring and reporting of the effectiveness of the vegetated buffer required under Condition 10 of Schedule 3	Quarterly for first year following commencement of operations, then six monthly for a further two years	See DWG LP303 of LP	To be undertaken by qualified horticulturist in accordance with methodology outlined in LP	EPC HSE Coordinator (construction) O&M Site Manager (operations)	EPC and O&M Reporting requirements specified in LP
Biodiversity	Condition 15, Schedule 3	Monitoring and reporting of the effectiveness of biodiversity impact mitigation measures	Pre-clearance protocols: before and after vegetation clearing activities Light shields: during nightworks Dust: daily Temporary fencing: prior to construction Hygiene protocols: monthly	See Sections 7 and 8 of BMP	To be undertaken in accordance with protocols outlined in BMP	EPC HSE Coordinator	Refer Table 6.1 of BMP
Noise	Condition 18, Schedule 3	Monitoring of compliance with operational noise criteria To ensure worst-case emissions are assessed, noise monitoring will occur at R14 and R2, and then in addition, at the closest and/or potentially most affected receivers situated within the area of influence of the development. Monitoring will be undertaken under 'slight to gentle breeze' or 'moderate temperature inversion' conditions, consistent with worst-case noise predictions in the EIS. Receivers R14 and R2 (and all other receivers near the development area) are shown on Figure 1.3 of this EMS	An initial monitoring event will occur within three months of the commencement of operations to demonstrate compliance with the operational noise criteria. As operational noise levels will remain consistent throughout the operational phase, subsequent noise monitoring will be undertaken under the following circumstances: a) following a LSbp risk assessment that warrants the monitoring, or	N/A	Section 7 of the <i>Noise Policy for Industry</i>	EPC HSE Coordinator (construction) O&M Site Manager (operations)	Stand-alone noise compliance monitoring report

Aspect	Relevant Condition	Description	Timing/Frequency	Relevant Plan/Strategy	Relevant Standards/Guidelines	Responsibility for Implementation	Reporting
			b) a written request by the Planning Secretary (i.e. in the event of noise complaints)				
Heritage	Condition 23, Schedule 3	Reporting discovery of unexpected finds	In the event of unexpected finds	See Section 7 of HMP	To be undertaken in accordance with protocols outlined in HMP	EPC HSE Coordinator (construction) O&M Site Manager (operations)	Refer Section 7.0 and Appendix 4 of HMP
		Monitoring and reporting on the effectiveness of measures to manage impacts on Aboriginal and historic heritage items	Baseline (pre-construction) and Post activity (following construction) checks				
Soil and Water	Condition 26, Schedule 3	Monitoring to ensure solar panels and ancillary infrastructure are constructed to reduce impacts on localised flooding and groundwater and avoid erosion	To be specified in the CEMP	CEMP	<i>Managing Urban Stormwater: Soils and Construction (Landcom, 2004) manual</i>	EPC HSE Coordinator	EPC observation and compliance records
Accommodation and Employment	Condition 31, Schedule 3	Monitoring and reporting on the effectiveness of the AES	Refer Table 5.6 and Table 6.2 of AES	AES	N/A – monitoring and reporting methodology outlined in AES	LSbp	Refer Table 5.6 and Table 6.2 of AES

8.0 Decommissioning and Rehabilitation

Decommissioning and rehabilitation requirements are set out in Condition 32 of Schedule 3 of the development consent. This condition provides that within 18 months of the cessation of operations, unless the Planning Secretary agrees otherwise, LSbp must rehabilitate the site to the satisfaction of the Planning Secretary. This rehabilitation must comply with the objectives in **Table 8.1** below.

Table 8.1 Rehabilitation Objectives

Feature	Objective
Site	Safe, stable and non-polluting Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use
Solar farm infrastructure	To be decommissioned and removed, unless the Planning Secretary agrees otherwise
Land use	Restore land capability to pre-existing use (at least Class 3 Land Capability)
Community	Ensure public safety at all times

Consistent with the requirements of the development consent, LSbp will:

- review and update this EMS and other relevant management plans to the satisfaction of the Planning Secretary, prior to commencing decommissioning activities
- rehabilitate disturbed areas to comply with the objectives outlined in **Table 8.1** within 18 months of the cessation of operations, unless otherwise agreed by the Planning Secretary
- comply with any requirements of the Planning Secretary issued under Condition 4 of Schedule 2 of the development consent, for example, requirements arising from any report, review or audit commissioned by the Department relating to rehabilitation.

9.0 Document Review and Control

Consistent with Condition 2 of Schedule 4 of the development consent, LSbp will:

- (a) update the EMS to the satisfaction of the Planning Secretary prior to carrying out any upgrading or decommissioning activities; and
- (b) review and, if necessary, revise the EMS to the satisfaction of the Planning Secretary within one month of:
 - the submission of an incident notification under condition 7 of Schedule 4 (see **Section 10.1**)
 - the submission of an audit report under condition 11 of Schedule 4 (see **Section 11.1**), or
 - any modification to the conditions of the development consent.

Additionally, Condition 3 of Schedule 4 provides that LSbp may, at any time, submit a revised EMS to the Planning Secretary for approval. The EMS will be periodically reviewed by the EPC Project Manager and O&M Site Manager during construction and operations, respectively (see **Section 4.0**). If revisions to the EMS are required, for example, to facilitate continuous improvement, to respond to legislative changes or address an actual or potential non-compliance, then they will advise the LSbp Project Team. The LSbp Project Team will be responsible for revising the EMS and submitting the updated EMS to the Planning Secretary for approval.

Following approval by the Planning Secretary, the revised EMS will be published on the development website (see **Section 6.1**).

10.0 Incident Reporting

This section describes the incident reporting procedures for the development, having regard to the requirements of SSD 8895 and the POEO Act.

10.1 Notification Procedures under SSD 8895

10.1.1 Incident Notification

Incident notification requirements are set out in condition 7 of Schedule 4 and in Appendix 6 of the development consent. Under SSD 8895, an ‘incident’ is defined as set of circumstances that causes or threatens to cause material harm to the environment, and ‘material harm’ is harm that:

involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or

results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).

LSbp will notify the Department in writing via the Major Projects website immediately after becoming aware of any incident. The notification will identify the development (Wellington North Solar Farm, SSD 8895) and set out the location and nature of the incident.

Within seven days of becoming aware of the incident, LSbp will provide a detailed written notification via the Major Project website. This notification will:

- (a) identify the development and application number (Wellington North Solar Farm, SSD 8895)
- (b) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident)
- (c) identify how the incident was detected
- (d) identify when LSbp became aware of the incident
- (e) identify any actual or potential non-compliance with conditions of consent
- (f) describe what immediate steps were taken in relation to the incident
- (g) identify further action(s) that will be taken in relation to the incident
- (h) identify a project contact for further communication regarding the incident.

Within 30 days of the date on which the incident occurred, or as otherwise agreed by the Planning Secretary, LSbp will provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident including the following information, as well as any further reports which may be requested by the Planning Secretary:

- (a) a summary of the incident
- (b) outcomes of an incident investigation, including identification of the cause of the incident

- (c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence
- (d) details of any communication with other stakeholders regarding the incident.

10.1.2 Non-Compliance Notification

Non-compliance notification requirements are set out in Conditions 8 to 10 of Schedule 4 of the development consent. Under SSD 8895, a non-compliance is an ‘occurrence, set of circumstances or development that is a breach of this consent but is not an incident.’

LSbp will notify the Department in writing via the Major Projects website within 7 days after becoming aware of any non-compliance. Any non-compliance notification will identify the development and the application number (Wellington North Solar Farm, SSD 8895), set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known). The notification will also identify what actions have been taken, or will be undertaken, to address the non-compliance.

Consistent with Condition 10 of Schedule 4, a non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

10.2 Incident Reporting Procedures under POEO Act

LSbp will notify the Environment Protection Authority (EPA) immediately after becoming aware of any pollution incident which causes or threatens to cause material harm to the environment in accordance with the requirements of Part 5.7 of the POEO Act. The meaning of ‘material harm’ is set out in section 147 of the POEO Act and is consistent with the definition under SSD 8895 (see **Section 10.1** above).

An incident notification will be provided via the EPA Environment Line (Phone: 131 555) and to each ‘relevant authority’ as set out in section 148 (8) of the POEO Act. This includes:

- Dubbo Regional Council (Phone: 02 6801 4000)
- The NSW Ministry of Health (Phone: 02 9391 9000)
- Safe Work NSW (Phone: 13 10 50)
- Fire and Rescue NSW (Phone: 000).

Each incident notification will include, as a minimum, the requirements set out in section 150 of the POEO Act, including:

- (a) the time, date, nature, duration and location of the incident
- (b) the location of the place where pollution is occurring or is likely to occur
- (c) the nature, the estimated quantity or volume and the concentration of any pollutants involved, if known
- (d) the circumstances in which the incident occurred (including the cause of the incident, if known),
- (e) the action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known
- (f) any other information prescribed by the regulations.

10.3 Notification Procedures under the Heritage Act 1977

Part 6 Division 9 of the *Heritage Act 1977* (the Heritage Act) protects archaeological 'relics' from being 'exposed, moved, damaged or destroyed' by the disturbance or excavation of land. This protection extends to the situation where a person has 'reasonable cause to suspect' that archaeological remains may be affected by the disturbance or excavation of the land. It applies to all land in NSW that is not included in the SHR. Under the Heritage Act, a 'relic' is defined as:

Any deposit, object of material evidence which relates to the settlement of the area that comprises NSW, not being Aboriginal settlement, and has local or state significance.

Section 146 of the Heritage Act requires all site personnel who are aware or believe that they have discovered or located a relic must notify the Heritage Council of NSW providing details of the location and other information required.

During construction, the EPC Contractor (primarily the EPC HSE Coordinator) will immediately notify LSbp of the discovery or location of any relics. During operations, the O&M Contractor (primarily the O&M Site Manager) will immediately notify LSbp of the discovery or location of any relics. Consistent with the requirements of Section 146 of the Heritage Act, LSbp will:

- (a) within a reasonable time after LSbp becomes aware or believes that a relic has been discovered or located, notify the Heritage Council of the location of the relic, unless LSbp believes on reasonable grounds that the Heritage Council is aware of the location of the relic, and
- (b) within the period required by the Heritage Council, furnish the Heritage Council with such information concerning the relic as the Heritage Council may reasonably require.

11.0 Monitoring and Evaluation

11.1 Internal Review and Improvement

LSbp will implement internal review processes to facilitate continuous improvement in environmental management over the life of the development. This will include (but not be limited to):

- Monthly project review meetings attended by LSbp, the EPC Contractor and any other key stakeholders (as relevant) to discuss the progress of the development and review key environmental risks and issues.
- Reviewing, and where required, updating the EMS and other management plans and strategies to improve environmental performance (see **Section 8.0**).
- Developing and implementing lessons learned training programs in response to any reportable incidents or non-compliances.
- Reviewing and refining employee and contractor training programs over the life of the development.

11.2 Independent Environmental Audits

In accordance with Conditions 11 to 16 of Schedule 4 of the development consent, LSbp will commission Independent Environmental Audits of the development:

- (a) within 3 months of commencing construction; and
- (b) within 3 months of commencing operations,

unless otherwise required by the Planning Secretary. The Planning Secretary may require the Independent Environmental Audits to be undertaken at different times to those specified above, subject to giving at least 4 weeks' notice to LSbp of the date upon which the audit must be commenced.

LSbp will seek the Planning Secretary's endorsement of the proposed independent auditor(s) prior to commencing each Independent Environmental Audit.

Independent Environmental Audits will be conducted and carried out in accordance with the *Independent Audit Post Approval Requirements* (2020). Consistent with these requirements, LSbp will:

- review and respond to each Independent Audit Report
- submit each Independent Audit Report and LSbp's subsequent response to the Planning Secretary within two months of the independent audit site inspection (unless otherwise agreed by the Planning Secretary)
- make each Independent Audit Report, and LSbp's subsequent response, publicly available on the development's website within 60 days of submission to the Planning Secretary (unless otherwise agreed by the Planning Secretary).

11.3 Corrective and Preventative Action

Incidents and non-compliances will be managed and reported through the procedures outlined in **Section 10.0**. Roles, responsibilities and accountabilities for responding to incidents and non-compliances are detailed in **Section 4.0**.

Additionally, the EPC Contractor and O&M Contractor will proactively identify and manage environmental risks, and take preventative action to address potential non-compliances through the environmental site inspection process (see **Section 7.1**) and internal review and improvement processes (see **Section 11.1**).

11.4 Requirements of the Planning Secretary

Consistent with the requirements of Condition 4 of Schedule 2 of the development consent, LSbp will comply with any requirement/s of the Planning Secretary arising from the Department's assessment of:

- any strategies, plans or correspondence that are submitted in accordance with the development consent;
- any reports, reviews or audits commissioned by the Department regarding compliance with the development consent, and
- the implementation of any actions or measures contained in these documents.

12.0 References

Austroads, 2021. *Guide to Road Design*

Department of Infrastructure, Planning and Natural Resources, 2004. *Guideline for the Preparation of Environmental Management Plans*

Department of Planning and Environment, 2018. *Draft Post Approval Guideline for Environmental Management Plans*

GHD, March 2021. *Wellington North Solar Plant – Traffic Impact Assessment: Goolma Road*

NSW Department of Planning, Industry and Environment, 2020. *Independent Audit Post Approval Requirements*

NSW Department of Planning, Industry and Environment, 2021. *Wellington North Solar Farm - State Significant Development Assessment, SSD 8895*

Wellington North Solar Farm – Traffic Management Plan (TMP), prepared by The Transport Planning Partnership for Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited, dated March 2022

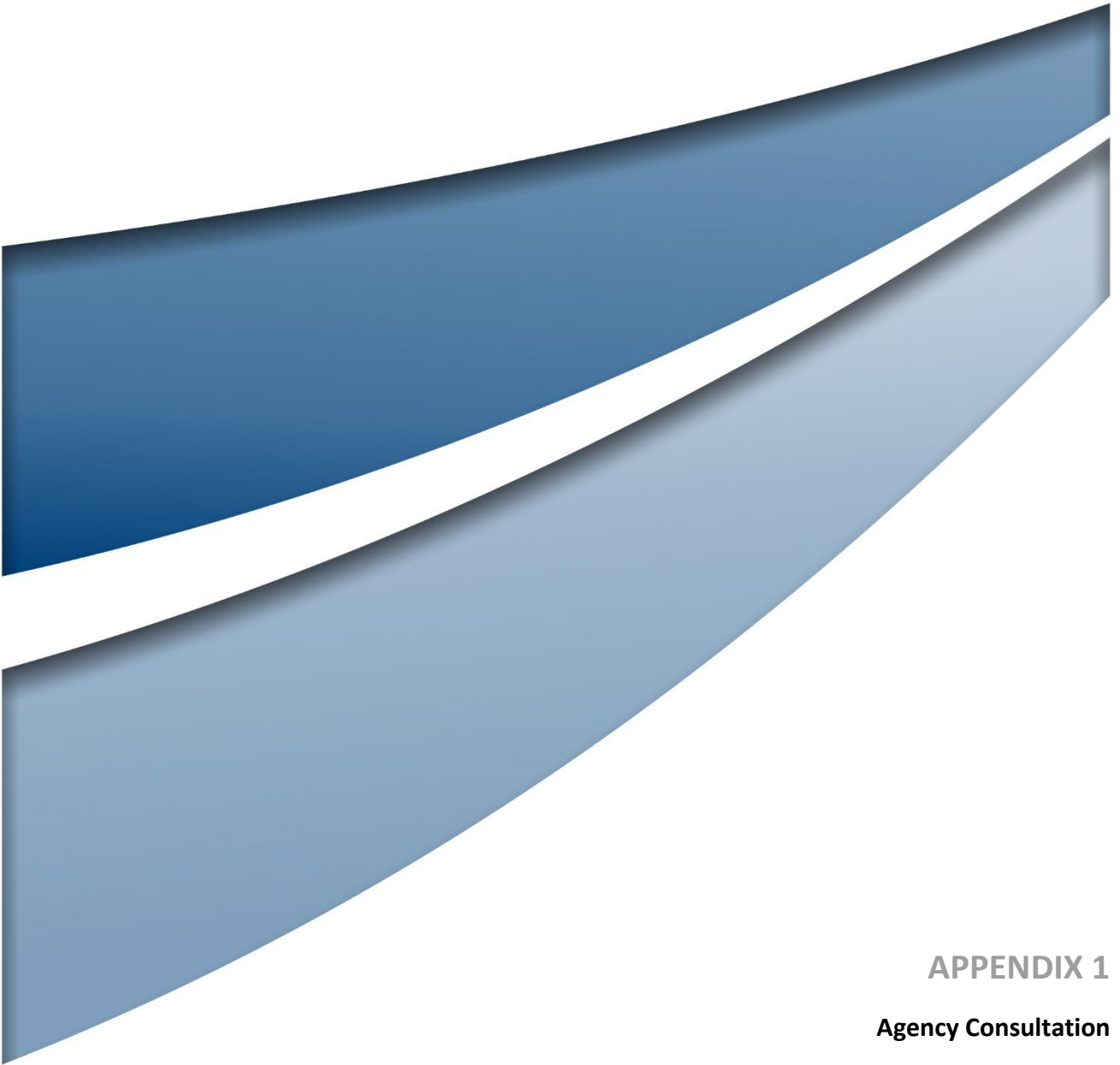
Wellington North Solar Farm – Landscaping Plan (LP), prepared by Terras Landscape Architects for Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited, dated March 2022

Wellington North Solar Farm – Biodiversity Management Plan (BMP), prepared by Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited, dated March 2022

Wellington North Solar Farm – Heritage Management Plan (BMP), prepared by Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited, dated March 2022

Wellington North Solar Farm – Emergency Plan (EP), prepared by Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited, dated March 2022

Wellington North Solar Farm – Accommodation and Employment Strategy (AES), prepared by Umwelt (Australia) Pty Limited on behalf of Lightsource bp Renewable Energy Investments Limited, dated March 2022



APPENDIX 1

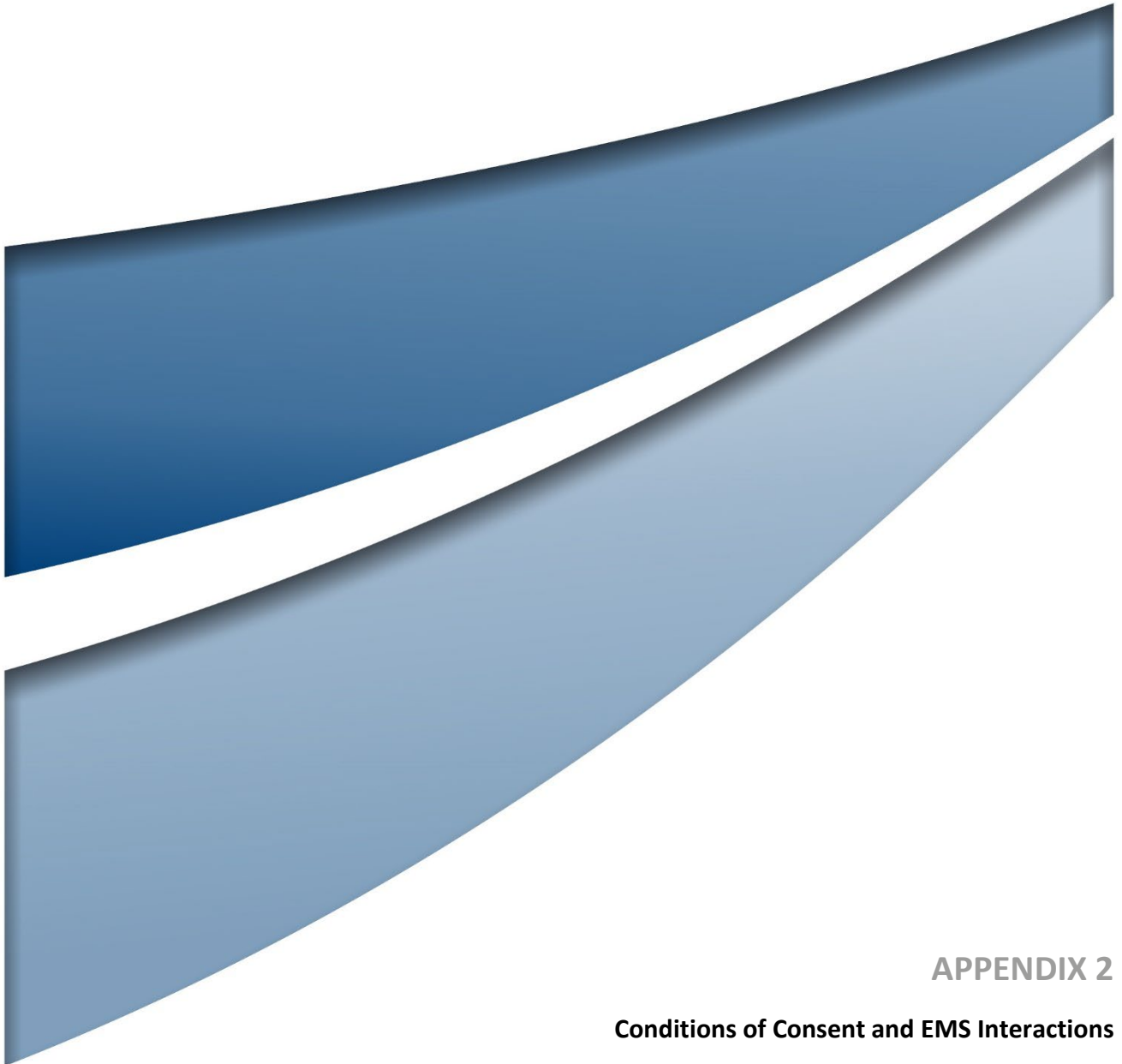
Agency Consultation

Consultation: Department of Environment, Industry and Environment

Agency and other stakeholder consultation has occurred as per the development consent for plans and strategy prepared under the LSbp Integrated Management System. Targeted consultation was not required for the EMS preparation.

However, the EMS was submitted to the Department for review in late May and correspondence received. The DPIE correspondence, and where this feedback has been addressed in this EMS, is documented in the table below.

ID	Comment	Response
1	Planner's Comments for additional information request, received Friday, 17 June 2022: Table 1.1 of the EMS needs to be updated to correspond with the relevant headings referred in the EMS report.	Table 1.1 of the EMS updated to correspond with the relevant headings. Targeted section references have been provided.
2		
3		
4		
5		
6		
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APPENDIX 2

Conditions of Consent and EMS Interactions

Conditions of Consent: Interactions with this EMS

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
2, 1	Administrative Conditions	Obligation to Minimise Harm to the Environment	In meeting the specific environmental performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, upgrading or decommissioning of the development.	The Integrated Management System and this EMS have been designed based on the principle of minimising material harm to the environment	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	All personnel	Section 10.0 + other plans (as summarised in Section 1.3 of this EMS)
2, 2	Administrative Conditions	Terms of Consent	The Applicant must carry out the development: (a) generally in accordance with the EIS; and (b) in accordance with the conditions of this consent. Note: The general layout of the development is shown in Appendix 1.	The Integrated Management System and this EMS have been designed in general accordance with the EIS and to ensure compliance with the development consent	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	All personnel	Sections 7.0, 10.0 and 11.0 + other plans (as summarised in Section 1.3 of this EMS)
2, 2	Administrative Conditions	Terms of Consent	If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.	Not directly relevant to this EMS. LSbp will however comply with this condition if inconsistencies are identified in the future.			
2, 4	Administrative Conditions	Terms of Consent	The Applicant must comply with any requirement/s of the Planning Secretary arising from the Department's assessment of: (a) any strategies, plans or correspondence that are submitted in accordance with this consent; (b) any reports, reviews or audits commissioned by the Department regarding compliance with this consent; and (c) the implementation of any actions or measures contained in these documents.	The Integrated Management System and this EMS have been designed to ensure compliance with the development consent, including any requirements of the Planning Secretary	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	All personnel	Section 11.4
2, 5	Administrative Conditions	Upgrading of Solar Panels and Ancillary Infrastructure	The Applicant may upgrade the solar panels and ancillary infrastructure on site provided these upgrades remain within the approved development footprint of the site. Prior to carrying out any such upgrades, the Applicant must provide revised layout plans and project details of the development to the Planning Secretary incorporating the proposed upgrades.	Not directly relevant to this EMS. LSbp will however comply with this condition if upgrades are proposed.			
2, 6	Administrative Conditions	Structural Adequacy	The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the Building Code of Australia. <i>Notes:</i> <ul style="list-style-type: none">Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the development.	Structural certification processes under Parts 6 and 8 of the EP&A Act will be managed under the CEMP	Prior to development and/or construction, then at all stages of construction of the development	EPC Project Manager	CEMP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<ul style="list-style-type: none"> Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. 				
2, 7	Administrative Conditions	Demolition	The Applicant must ensure that all demolition work on site is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i> , or its latest version.	Any demolition works required will be managed in accordance with the Australian Standard	During construction and decommissioning	EPC Project Manager	CEMP
2, 8	Administrative Conditions	Protection of Public Infrastructure	<p>Unless the Applicant and the applicable authority agree otherwise, the Applicant must:</p> <ul style="list-style-type: none"> a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. This condition does not apply to the upgrade and maintenance of the road network, which is expressly provided for in the conditions of this consent. 	The development is not anticipated to require repair or relocation of public infrastructure. However, in the event that accidental damage is caused to public infrastructure, the EPC Contractor (or O&M Contractor, as relevant) will liaise with both Council and LSbp to ensure compliance with this condition.	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	<p>EPC Project Manager (construction)</p> <p>O&M Site Manager (operations)</p>	<p>CEMP (construction)</p> <p>OEMP (operations)</p>
2, 9	Administrative Conditions	Operation of Plant and Equipment	<p>The Applicant must ensure that all plant and equipment used on site, or in connection with the development, is:</p> <ul style="list-style-type: none"> a) maintained in a proper and efficient condition; and b) operated in a proper and efficient manner. 		At all stages of construction, operation and decommissioning of the development	<p>EPC HSE Coordinator (construction)</p> <p>O&M Site Manager (operations)</p>	Section 7.0 of this EMS + the CEMP
3, 1	Environmental Conditions - General	Batteries – Battery Storage Restriction	<p>This development consent does not authorise the construction or installation of a battery storage facility or system.</p> <p><i>Note: This condition does not prevent the Applicant from seeking to lodge a separate development application or modify this consent to install a battery storage facility in the future.</i></p>	<p>The development does not propose any construction or installation of a battery storage facility or system.</p> <p>LSbp will however lodge a separate development application or modify this consent to install a battery storage facility of the project site requires one in the future.</p>			
3, 2	Environmental Conditions - General	Transport – Overdimensional and Heavy Vehicle Restrictions	<p>The Applicant must ensure that the:</p> <ul style="list-style-type: none"> a) development does not generate more than: <ul style="list-style-type: none"> 60 heavy vehicle movements a day during construction, upgrading and decommissioning; 2 over-dimensional vehicle movements during construction, upgrading and decommissioning; and 5 heavy vehicle movements a day during operations; on the public road network; and b) length of any vehicles (excluding over-dimensional vehicles) used for the development does not exceed 19 metres, unless the Planning Secretary agrees otherwise. 	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	<p>EPC Project Manager</p> <p>EPC HSE Coordinator (construction)</p> <p>O&M Site Manager (operations)</p>	TMP, as supplemented by procedures in the CEMP/OEMP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
3, 3	Environmental Conditions - General	Transport – Overdimensional and Heavy Vehicle Restrictions	The Applicant must keep accurate records of the number of over-dimensional and heavy vehicles entering or leaving the site each day for the duration of the project.	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent	At all stages of construction, operation and decommissioning of the development	EPC Project Manager / EPC HSE Coordinator (construction) O&M Site Manager (operations)	TMP, as supplemented by procedures in the CEMP/OEMP
3, 4	Environmental Conditions - General	Transport – Access Route	All over-dimensional and heavy vehicles associated with the development must travel to and from the site via Mitchell Highway and Goolma Road and Twelve Mile Road, as shown in Appendix 4. <i>Note: The Applicant is required to obtain relevant permits under the Heavy Vehicle National Law (NSW) for the use of overdimensional vehicles on the road network.</i>	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent. The EPC Contractor will obtain relevant permits under the Heavy Vehicle National Law (NSW) for any proposed use of over dimensional vehicles on the road network.	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	EPC Project Manager EPC HSE Coordinator (construction) O&M Site Manager (operations)	TMP, as supplemented by procedures in the CEMP/OEMP
3, 5	Environmental Conditions - General	Transport – Site Access	All vehicles associated with the development must enter and exit the site via the: a) primary site access on Goolma Road; or b) transmission line access points on Goolma Road and Twelve Mile Road; as identified in Appendix 1.	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent	Prior to development and/or construction, then at all stages of construction and decommissioning of the development	EPC Project Manager EPC HSE Coordinator (construction) O&M Site Manager (operations)	TMP, as supplemented by procedures in the CEMP/OEMP
3, 6	Environmental Conditions - General	Transport – Road Upgrades	Unless the Planning Secretary agrees otherwise, prior to commencing construction, the Applicant must: a) construct and maintain a new BAR and AUL treatment at the intersection of the primary site access (as shown in Appendix 5) with Goolma Road for the posted speed limit on Goolma Road; and b) close the ‘Existing Access Road’ (as shown in Appendix 5) on Goolma Road, and reinstate the road reserve to match the surrounding roadside landform; and c) undertake upgrades in accordance with the Austroads Guide to Road Design (as amended by TfNSW supplements) and to the satisfaction of the relevant roads authority.	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent	Prior to development and/or construction of the development	LSbp Project Team/EPC Project Manager	TMP
3, 7	Environmental Conditions - General	Transport – Road Maintenance	The Applicant must: a) undertake an independent dilapidation survey to assess the: • existing condition of Goolma Road and Twelve Mile Road on the transport route, prior to construction, upgrading or decommissioning activities; and	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent.	Prior to construction and decommissioning of the development	EPC Project Manager (all matters, excluding referral of disputes to the Planning Secretary)	TMP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<ul style="list-style-type: none"> condition of Goolma Road and Twelve Mile Road on the transport route, following construction, upgrading or decommissioning activities; b) repair Goolma Road and Twelve Mile Road on the transport route, if dilapidation surveys identify that the road/s have been damaged during construction, upgrading or decommissioning activities; <p>in consultation with the relevant roads authority, and to the satisfaction of the Planning Secretary.</p> <p>If there is a dispute between the Applicant and the applicant of the Uungula Wind Farm (SSD 6687) regarding the repairs required under condition 7(b), then either party may refer the matter to the Planning Secretary for resolution. The Planning Secretary's decision on the matter is final and binding on both parties.</p>	In the event of a dispute, LSbp will (if it so chooses) refer the matter to the Planning Secretary for resolution.		LSbp Project Team (referral of disputes to the Planning Secretary only)	
3, 8	Environmental Conditions - General	Transport – Operating Conditions	<p>The Applicant must ensure:</p> <ul style="list-style-type: none"> a) the internal roads are constructed as all-weather roads; b) there is sufficient parking on site for all vehicles, and no parking occurs on the public road network in the vicinity of the site; c) the capacity of the existing roadside drainage network is not reduced; d) all vehicles are loaded and unloaded on site, and enter and leave the site in a forward direction; and e) development-related vehicles leaving the site are in a clean condition to minimise dirt being tracked onto the sealed public road network. 	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent	At all stages of construction, operation and decommissioning of the development	<p>EPC HSE Coordinator (construction)</p> <p>O&M Site Manager (operations)</p>	N/A
3, 9	Environmental Conditions - General	Transport – Traffic Management Plan	<p>Prior to commencing the road upgrades, the Applicant must prepare a Traffic Management Plan for the development in consultation with TfNSW and Council, and to the satisfaction of the Planning Secretary. This plan must include:</p> <ul style="list-style-type: none"> a) details of the transport route to be used for development-related traffic; b) details of the road upgrade works required by condition 6 of Schedule 3 to this consent; c) details of the independent dilapidation surveys required by condition 7 of Schedule 3 to this consent; 	The Integrated Management System and the TMP have been designed to ensure compliance with the development consent	Prior to development and/or construction of the development	LSbp is responsible for the preparation of the TMP, however, implementation of the plan will be responsibility of the EPC Contractor (EPC Project Manager / HSE Coordinator)	TMP, specialist engaged for dilapidation surveys

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>d) details of the measures that would be implemented to minimise traffic impacts during construction, upgrading or decommissioning works, including:</p> <ul style="list-style-type: none"> temporary traffic controls, including detours and signage; notifying the local community about project-related traffic impacts; procedures for receiving and addressing complaints from the community about development-related traffic; minimising potential cumulative traffic impacts with other projects in the area (including Uungula Wind Farm), including during construction, upgrading or decommissioning works; minimising potential for conflict with school buses, other motorists and road users as far as practicable; minimising dirt tracked onto the public road network from development-related traffic; details of the employee shuttle bus service, including pick-up and drop-off points and associated parking arrangements for construction workers, and measures to encourage employee use of this service; details of the measures to encourage car-pooling or ride sharing by employees; scheduling of haulage vehicle movements to minimise convoy length or platoons; responding to local climate conditions that may affect road safety such as fog, dust, wet weather; responding to any emergency repair or maintenance requirements; and a traffic management system for managing over-dimensional vehicles; <p>e) a driver's code of conduct that addresses:</p> <ul style="list-style-type: none"> travelling speeds; driver fatigue; procedures to ensure that drivers adhere to the designated transport routes; and 				

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<ul style="list-style-type: none"> procedures to ensure that drivers implement safe driving practices; and f) a program to ensure drivers working on the development receive suitable training on the code of conduct and any other relevant obligations under the Traffic Management Plan. <p>Following the Planning Secretary's approval, the Applicant must implement the Traffic Management Plan.</p>				
3, 10	Environmental Conditions - General	Landscaping – Vegetation Buffer	<p>Unless the Planning Secretary agrees otherwise, the Applicant must establish and maintain a 10 metre wide vegetation buffer (landscape screening) at the locations outlined in the figure in Appendix 1 and landscape screening in locations within or directly alongside the transmission line easement adjacent to R21 and R22, to the satisfaction of the Planning Secretary. The landscape screening must:</p> <ul style="list-style-type: none"> a) be planted prior to commencing construction; b) be comprised of species that are endemic to the area; c) minimise views: <ul style="list-style-type: none"> of the development from residences R2, R3, R4 and R6; and of the development's electricity transmission line from residences R21 and R22, within 3 years of commencing operations; d) be designed and maintained in accordance with RFS's Planning for Bushfire Protection 2019 (or equivalent); and e) be properly maintained with appropriate weed management, unless the Planning Secretary agrees otherwise. 	The Integrated Management System and the LP have been designed to ensure compliance with the development consent	Prior to construction of the development	EPC Project Manager	LP
3, 11	Environmental Conditions - General	Landscaping – Landscaping Plan	<p>Prior to commencing construction, the Applicant must prepare a detailed Landscaping Plan for the development in consultation with Council and receivers R2, R3, R4, R6, R21 and R22 to the satisfaction of the Planning Secretary. This plan must include:</p> <ul style="list-style-type: none"> a) a description of measures that would be implemented to ensure that the vegetated buffer achieves the objectives of condition 10 (a) – (e) above; b) a program to monitor and report on the effectiveness of these measures; and 	The Integrated Management System and the LP have been designed to ensure compliance with the development consent	Prior to construction of the development	<p>LSbp is responsible for the preparation of the LP, however, implementation of the plan will be responsibility of the EPC Contractor (EPC Project Manager / HSE Coordinator) (construction) and</p> <p>O&M Site Manager (operations)</p>	LP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>c) details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for completion of actions.</p> <p>Following the Planning Secretary's approval, the Applicant must implement the Landscaping Plan.</p>				
3, 12	Environmental Conditions - General	Land Management	<p>The Applicant must maintain the agricultural land capability of the site, including:</p> <ul style="list-style-type: none"> a) establishing the ground cover of the site within 3 months following completion of any construction or upgrading; b) properly maintaining the ground cover with appropriate perennial species and weed management; and c) maintaining grazing within the development footprint, where practicable, unless the Planning Secretary agrees otherwise. 	Agricultural capability will be managed under the BMP, CEMP and OEMP	At all stages of construction, operation and decommissioning of the development	EPC HSE Coordinator	BMP, CEMP and OEMP
3, 13	Environmental Conditions - General	Biodiversity – Vegetation Clearance	The Applicant must not clear any native vegetation or fauna habitat located outside the approved disturbance areas described in the EIS.	The Integrated Management System and the LP have been designed to ensure compliance with the development consent	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	EPC Project Manager	BMP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies									
3, 14	Environmental Conditions - General	Biodiversity – Biodiversity Offsets	Prior to commencing construction, the Applicant must retire biodiversity credits of a number and class specified in Table 1 and Table 2, unless the Planning Secretary agrees otherwise. The retirement of these credits must be carried out in accordance with the NSW Biodiversity Offset Scheme and can be achieved by:	LSbp will retire the required biodiversity credits in accordance with Condition 14 of Schedule 3 prior to commencing construction	Prior to construction	LSbp Project Team	N/A									
			a) acquiring or retiring ‘biodiversity credits’ within the meaning of the Biodiversity Conservation Act 2016;													
			b) making payments into an offset fund that has been developed by the NSW Government; or													
			c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.													
			Table 1: Ecosystem Credit Requirements													
			<table><tr><th>Vegetation Community</th><th>PCT ID</th><th>Credits Required</th></tr><tr><td>White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion</td><td>266</td><td>329</td></tr><tr><td>Yellow Box grassy woodland in the lower hillslopes and valley flats in the southern NSW Brigalow Belt South Bioregion</td><td>437</td><td>281</td></tr></table>					Vegetation Community	PCT ID	Credits Required	White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion	266	329	Yellow Box grassy woodland in the lower hillslopes and valley flats in the southern NSW Brigalow Belt South Bioregion	437	281
			Vegetation Community					PCT ID	Credits Required							
			White Box grassy woodland in the upper slopes sub-region of the NSW South Western Slopes Bioregion					266	329							
			Yellow Box grassy woodland in the lower hillslopes and valley flats in the southern NSW Brigalow Belt South Bioregion					437	281							
			Table 2: Species Credit Requirements													
<table><tr><th>Species Credit Species</th><th>Credits Required</th></tr><tr><td>Pink-tailed Legless Lizard (<i>Aprasia parapulchella</i>)</td><td>14</td></tr><tr><td>Southern Myotis (<i>Myotis Macropus</i>)</td><td>5</td></tr><tr><td>Barking Owl (<i>Ninox connivens</i>)</td><td>204</td></tr><tr><td>Masked Owl (<i>Tyto novaehollandiae</i>)</td><td>204</td></tr><tr><td>Glossy Black-Cockatoo (<i>Calyptorhynchus lathami</i>)</td><td>204</td></tr></table>	Species Credit Species	Credits Required	Pink-tailed Legless Lizard (<i>Aprasia parapulchella</i>)	14	Southern Myotis (<i>Myotis Macropus</i>)	5	Barking Owl (<i>Ninox connivens</i>)	204	Masked Owl (<i>Tyto novaehollandiae</i>)	204	Glossy Black-Cockatoo (<i>Calyptorhynchus lathami</i>)	204				
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Glossy Black-Cockatoo (<i>Calyptorhynchus lathami</i>)	204															
3, 15	Environmental Conditions - General	Biodiversity – Biodiversity Management Plan	Prior to commencing construction, the Applicant must prepare a Biodiversity Management Plan for the development in consultation with BCS, and to the satisfaction of the Planning Secretary. This plan must:	The Integrated Management System and the BMP have been designed to ensure compliance with the development consent	Prior to development and/or construction, then at all stages of construction, operation and	LSbp is responsible for the preparation of the BMP, however, implementation of	BMP									

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>a) include a description of the measures that would be implemented for:</p> <ul style="list-style-type: none"> protecting vegetation and fauna habitat outside the approved disturbance areas; managing the remnant vegetation and fauna habitat on site; minimising clearing and avoiding unnecessary disturbance of vegetation that is associated with the construction and operation of the development; minimising the impacts to fauna on site and implementing fauna management protocols; avoiding the removal of hollow-bearing trees during spring to avoid the main breeding period for hollow-dependent fauna; rehabilitating and revegetating temporary disturbance areas with species that are endemic to the area; maximising the salvage of vegetative and soil resources within the approved disturbance area for beneficial reuse in the enhancement or the rehabilitation of the site; and controlling weeds and feral pests; <p>b) include a program to monitor and report on the effectiveness of mitigation measures; and</p> <p>c) include details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for completion of actions.</p> <p>Following the Planning Secretary's approval, the Applicant must implement the Biodiversity Management Plan.</p> <p><i>Note: If the biodiversity credits are retired via a Biodiversity Stewardship Agreement, then the Biodiversity Management Plan does not need to include any of the matters that are covered under the Biodiversity Stewardship Agreement.</i></p>		decommissioning of the development	<p>the plan will be responsibility of the EPC Contractor (EPC Project Manager / HSE Coordinator) (construction) and</p> <p>O&M Site Manager (operations)</p>	
3, 16	Environmental Conditions - General	Amenity – Construction, Upgrading and Decommissioning Hours	<p>Unless the Planning Secretary agrees otherwise, the Applicant may only undertake road upgrades, construction, upgrading or decommissioning activities between:</p> <ul style="list-style-type: none"> a) 7 am to 6 pm Monday to Friday; b) 8 am to 1 pm Saturdays; and c) at no time on Sundays and NSW public holidays. 	<p>The timing of construction activities will be managed under the CEMP, in accordance with the requirements of Condition 16 of Schedule 3</p> <p>Any upgrading or decommissioning works will be undertaken in accordance with Condition 16 of Schedule 3 and</p>	At all stages of construction and decommissioning of the development	EPC Project Manager and EPC Site Manager	CEMP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>The following construction, upgrading or decommissioning activities may be undertaken outside these hours without the approval of the Planning Secretary:</p> <ul style="list-style-type: none"> activities that are inaudible at non-associated receivers; the delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; or emergency work to avoid the loss of life, property and/or material harm to the environment. 	will be managed under an updated EMS and other relevant management plans and strategies			
3, 17	Environmental Conditions - General	Amenity- Noise	The Applicant must minimise the noise generated by any construction, upgrading or decommissioning activities on site in accordance with the best practice requirements outlined in the Interim Construction Noise Guideline (DECC, 2009), or its latest version.	<p>Construction noise will be managed under the CEMP</p> <p>Any upgrading or decommissioning works will be undertaken in accordance with Condition 16 of Schedule 3 and will be managed under an updated EMS and other relevant management plans and strategies</p>	At all stages of construction and decommissioning of the development	EPC Project Manager and EPC Site Manager	CEMP
3, 18	Environmental Conditions - General	Amenity - Noise	<p>The Applicant must ensure that noise generated by the operation of the development does not exceed 35 dB(A) $L_{Aeq}(15 \text{ minute})$ at any non-associated residence.</p> <p>Noise generated by the development is to be measured in accordance with the relevant requirements of the Noise Policy for Industry (2017) (or its equivalent).</p>	Operational noise will be managed and monitored under the CEMP and OEMP, consistent with commitments outlined in Section 7.2 of this EMS	During operation of the development	EPC HSE Coordinator and O&M Site Manager	Section 7.2 of this EMS, CEMP and OEMP
3, 19	Environmental Conditions - General	Amenity - Dust	The Applicant must minimise the dust generated by the development.	<p>Dust impacts will be primarily limited to the construction phase and early operations and will be managed under the CEMP</p> <p>For ongoing operations, any dust impacts will be managed under the site inspection process outlined in Section 7.1 of this EMS</p>	At all stages of construction, operation and decommissioning of the development	EPC HSE Coordinator	CEMP + Section 7.1 of this EMS
3, 20	Environmental Conditions - General	Amenity - Visual	<p>The Applicant must:</p> <ol style="list-style-type: none"> minimise the off-site visual impacts of the development, including the potential for any glare or reflection and impacts of the transmission line poles; ensure the visual appearance of all ancillary infrastructure (including paint colours) blends in as far as possible with the surrounding landscape; and 	The Integrated Management System and the LP have been designed to ensure compliance with the development consent	At all stages of construction, operation and decommissioning of the development	EPC Project Manager and EPC Site Manager	LP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			c) not mount any advertising signs or logos on site, except where this is required for identification or safety purposes.				
3, 21	Environmental Conditions - General	Amenity - Lighting	<p>The Applicant must:</p> <ul style="list-style-type: none"> a) minimise the off-site lighting impacts of the development; and b) ensure that any external lighting associated with the development: <ul style="list-style-type: none"> • is installed as low intensity lighting (except where required for safety or emergency purposes); • does not shine above the horizontal; and • complies with <i>Australian/New Zealand Standard AS/NZS 4282:2019 – Control of Obtrusive Effects of Outdoor Lighting and the Dark Sky Planning Guideline (DPIE 2018)</i>, or their latest versions. 	Lighting impacts during construction and initial operations will be managed under the CEMP to ensure compliance Condition 21 of Schedule 3	At all stages of construction, operation and decommissioning of the development	EPC Project Manager and EPC Site Manager	CEMP
3, 22	Environmental Conditions - General	Heritage - Protection of Heritage Items	<p>The Applicant must ensure the development does not cause any direct or indirect impacts on the Aboriginal heritage items identified in Table 1 in Appendix 3 or located outside the approved development footprint. Prior to carrying out any development that could directly or indirectly impact the heritage items identified in Table 2 of Appendix 3, the Applicant must salvage and relocate the item/s that would be impacted to a suitable alternative location, in accordance with the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW</i> (DECCW, 2010), or its latest version.</p> <p><i>Note: The location of the Aboriginal heritage items referred to in this condition are shown in the figure in Appendix 3.</i></p>	The Integrated Management System and the HMP have been designed to ensure compliance with the development consent	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	<p>The EPC Contractor (EPC HSE Coordinator) and O&M Contractor (O&M Site Manager) will be responsible for ensuring the development does not cause direct or indirect impacts to heritage items identified in Table 1 in Appendix 3 of the development consent.</p> <p>The LSbp Project Team will be responsible for the salvage and relocation of heritage items identified in Table 2 of Appendix 3 of the development consent.</p>	HMP
3, 23	Environmental Conditions - General	Heritage - Heritage Management Plan	<p>Prior to carrying out any development that could directly or indirectly impact the heritage items identified in Appendix 3, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:</p> <ul style="list-style-type: none"> a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Planning Secretary; 	The Integrated Management System and the HMP have been designed to ensure compliance with the development consent	Prior to development and/or construction of the development	LSbp is responsible for the preparation of the HMP, however, implementation of the plan will be responsibility of the EPC Contractor (EPC Project Manager /	Section 7.2 + the Heritage Management Plan

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>b) be prepared in consultation with Heritage NSW, Aboriginal Stakeholders and Council;</p> <p>c) include a description of the measures that would be implemented for:</p> <ul style="list-style-type: none"> protecting the Aboriginal heritage items identified in Table 1 in Appendix 3 or items located outside the approved development footprint, including fencing off the Aboriginal heritage items prior to carrying out any development that could directly or indirectly impact the heritage items located in Table 2 of Appendix 3; salvaging and relocating the Aboriginal heritage items located within the approved development footprint, as identified in Table 2 of Appendix 3; a contingency plan and reporting procedure if: - previously unidentified heritage items are found; or - Aboriginal skeletal material is discovered; ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions; ongoing consultation with Aboriginal stakeholders during the implementation of the plan; and ensuring the project does not cause any direct or indirect impacts to the Noonee Nyrang Homestead, which has local heritage value under the Wellington LEP (Item I11). <p>d) include a program to monitor and report on the effectiveness of these measures and any heritage impacts of the project.</p> <p>Following the Planning Secretary's approval, the Applicant must implement the Heritage Management Plan.</p>			<p>HSE Coordinator) (construction) and</p> <p>O&M Site Manager (operations)</p>	
3, 24	Environmental Conditions - General	Soil and Water - Water Supply	<p>The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of the development to match its available water supply.</p> <p><i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.</i></p>	Water usage will be monitored and managed at all stages of the development, and where necessary, activities will be adjusted to match the available water supply	At all stages of construction, operation and decommissioning of the development	EPC Project Manager, EPC Site Manager and O&M Site Manager	N/A
3, 25	Environmental Conditions - General	Soil and Water - Water Pollution	The Applicant must ensure that the development does not cause any water pollution, as defined under Section 120 of the POEO Act.	Water pollution risks will be primarily limited to the construction phase and early operations and will be managed under the CEMP	At all stages of construction, operation and decommissioning of the development	EPC Project Manager	CEMP, OEMP + Section 7.1 of this EMS

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
				For ongoing operations, pollution risks will be managed under the site inspection process outlined in Section 7.1 of this EMS			
3, 26	Environmental Conditions - General	Soil and Water - Operating Conditions	<p>The Applicant must:</p> <ul style="list-style-type: none"> a) minimise erosion and control sediment generation; b) ensure that construction, upgrading or decommissioning of the development has appropriate drainage and erosion and sediment controls designed, installed and maintained in accordance with the relevant requirements in the Managing Urban Stormwater: Soils and Construction (Landcom, 2004) manual, or its latest version; c) ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to reduce impacts on localised flooding and groundwater at the site; d) ensure the solar panels and ancillary infrastructure are designed, constructed and maintained to avoid causing any erosion on site; and e) ensure that solar panels and any ancillary infrastructure are setback by a distance of at least 40 m from Wuuluman Creek, and that all works are undertaken in accordance with Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018), unless DPIE Water agrees otherwise. 	<p>Erosion and sedimentation and flood related risks will be primarily limited to the construction phase and early operations and will be managed under the CEMP</p> <p>For ongoing operations, these risks will be managed under the site inspection process outlined in Section 7.1 of this EMS</p>	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	EPC HSE Coordinator	CEMP + Section 7.1 of this EMS
3, 27	Environmental Conditions - General	Hazards - Storage and Handling of Dangerous Materials	<p>The Applicant must store and handle all chemicals, fuels and oils used on-site in accordance with:</p> <ul style="list-style-type: none"> a) the requirements of all relevant Australian Standards; and b) the NSW EPA's Storing and Handling of Liquids: Environmental Protection – Participants Handbook if the chemicals are liquids. <p>In the event of an inconsistency between the requirements listed in (a) and (b), above, the most stringent requirement must prevail to the extent of the inconsistency.</p>	Storage and handling of dangerous materials will be primarily limited to the construction phase and early operations and will be managed under the CEMP	At all stages of construction, operation and decommissioning of the development	EPC Project Manager and EPC Site Manager	CEMP
3, 28	Environmental Conditions - General	Hazards - Operating Conditions	<p>The Applicant must:</p> <ul style="list-style-type: none"> a) minimise the fire risks of the development, including managing vegetation fuel loads on-site; b) ensure that the development: <ul style="list-style-type: none"> • includes at least a 10 metre defendable space around the perimeter of the solar array area that permits unobstructed vehicle access; • manages the defendable space and solar array areas as an Asset Protection Zone; 	Bushfire risks will be managed under the EP, CEMP and OEMP	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	The EPC Contractor (EPC HSE Coordinator) and O&M Contractor (O&M Site Manager) will be responsible for the implementation of the EP, CEMP and OEMP and ensuring compliance with the requirements of this condition (excluding notification of the	EP, CEMP and OEMP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<ul style="list-style-type: none"> complies with the relevant asset protection requirements in the RFS's Planning for Bushfire Protection 2019 (or equivalent) and Standards for Asset Protection Zones (including provision of water, electricity and gas, ancillary equipment, transmission lines and management of vegetation); includes an Asset Protection Zone that is wholly contained within the development footprint; is suitably equipped to respond to any fires on site including provision of a 20,000 litre water supply tank fitted with a 65mm Storz fitting and a FRNSW compatible suction connection located adjacent to an internal access road <p>c) assist the RFS and emergency services as much as practicable if there is a fire in the vicinity of the site; and</p> <p>d) notify the relevant local emergency management committee following construction of the development, and prior to commencing operations.</p>			<p>local emergency management committee).</p> <p>The LSbp Project Team will be responsible for notifying the relevant emergency management committee following construction of the development.</p>	
3, 29	Environmental Conditions - General	Hazards - Emergency Plan	<p>Prior to commencing construction, the Applicant must develop and implement a comprehensive Emergency Plan and detailed emergency procedures for the development, in consultation with FRNSW and the RFS. The Applicant must keep two copies of the plan on-site in a prominent position adjacent to the site entry points at all times. The plan must:</p> <ul style="list-style-type: none"> a) be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning' and RFS's Planning for Bushfire Protection 2019 (or equivalent); b) identify the fire risks and hazards and detailed measures for the development to prevent or mitigate fires igniting; c) list works that should not be carried out during a total fire ban; d) include availability of fire suppression equipment, access and water; e) include procedures for the storage and maintenance of any flammable materials; f) detail access provisions for emergency vehicles and contact details for both a primary and alternative site contact who may be reached 24/7 in the event of an emergency; g) include a figure showing site infrastructure, Asset Protection Zones and the firefighting water supply tank; h) include location of hazards (physical, chemical and electrical) that may impact on firefighting operations and procedures to manage identified hazards during firefighting operations; 	The Integrated Management System and the EP have been designed to ensure compliance with the development consent	Prior to development and/or construction of the development	LSbp is responsible for the preparation of the EP, however, implementation of the plan will be responsibility of the EPC Contractor (EPC Project Manager / HSE Coordinator) (construction) and O&M Site Manager (operations)	EP

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>i) include details of the location, management and maintenance of the Asset Protection Zone and who is responsible for the maintenance and management of the Asset Protection Zone;</p> <p>j) include bushfire emergency management planning;</p> <p>k) include details of how RFS would be notified, and procedures that would be implemented in the event that:</p> <ul style="list-style-type: none"> there is a fire on-site or in the vicinity of the site; there are any activities on site that would have the potential to ignite surrounding vegetation; there are any proposed activities to be carried out during a bushfire danger period; and offer representatives of the local RFS brigade an opportunity to undertake a site familiarisation following construction of the development, and prior to commencing operations. <p>Following approval, the Applicant must implement the Emergency Plan</p>				
3, 30	Environmental Conditions - General	Waste	<p>The Applicant must:</p> <ol style="list-style-type: none"> minimise the waste generated by the development; NSW Government Planning, Industry and Environment 12 classify all waste generated on site in accordance with the EPA's Waste Classification Guidelines 2014 (or its latest version); store and handle all waste on site in accordance with its classification; not receive or dispose of any waste on site; and remove all waste from the site as soon as practicable, and ensure it is reused, recycled or sent to an appropriately licensed waste facility for disposal. 	Waste generation will be primarily limited to the construction phase and will be managed under the CEMP	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	All personnel	CEMP
3, 31	Environmental Conditions - General	Accommodation and Employment Strategy	<p>Prior to commencing construction, the Applicant must prepare an Accommodation and Employment Strategy for the development in consultation with Council, and to the satisfaction of the Planning Secretary. This strategy must:</p> <ol style="list-style-type: none"> propose measures to ensure there is sufficient accommodation for the workforce associated with the development; consider the cumulative impacts associated with other State significant development projects in the area; investigate options for prioritising the employment of local workers for the construction and operation of the development where feasible; and 	The Integrated Management System and the AES have been designed to ensure compliance with the development consent	Prior to development and/or construction of the development	LSbp is responsible for the preparation of the AES, however, implementation of the plan will be the responsibility of the EPC Contractor (EPC Project Manager / HSE Coordinator)	AES

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies										
			<p>d) (d) include a program to monitor and review the effectiveness of the strategy over the life of the development, including regular monitoring and review during construction.</p> <p>Following the Planning Secretary’s approval, the Applicant must implement the Accommodation and Employment strategy</p>														
3, 32	Environmental Conditions - General	Decommissioning and Rehabilitation	<p>Within 18 months of the cessation of operations, unless the Planning Secretary agrees otherwise, the Applicant must rehabilitate the site to the satisfaction of the Planning Secretary. This rehabilitation must comply with the objectives in Table 2.</p> <p>Table 2: Rehabilitation Objectives</p> <table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site</td><td><p>a) Safe, stable and non-polluting</p><p>b) Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use</p></td></tr><tr><td>Solar farm infrastructure</td><td><p>c) To be decommissioned and removed, unless the Planning Secretary agrees otherwise</p></td></tr><tr><td>Land use</td><td><p>d) Restore land capability to pre-existing use (at least Class 3 Land Capability)</p></td></tr><tr><td>Community</td><td><p>e) Ensure public safety at all times</p></td></tr></table>	Feature	Objective	Site	<p>a) Safe, stable and non-polluting</p> <p>b) Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use</p>	Solar farm infrastructure	<p>c) To be decommissioned and removed, unless the Planning Secretary agrees otherwise</p>	Land use	<p>d) Restore land capability to pre-existing use (at least Class 3 Land Capability)</p>	Community	<p>e) Ensure public safety at all times</p>	Decommissioning and rehabilitation will be managed in compliance with the conditions of the development consent, as outlined in this EMS	Decommissioning of the development	To be identified prior to decommissioning, however, this will likely be to the O&M Contractor (see Section 4.0)	Section 8.0 of this EMS
Feature	Objective																
Site	<p>a) Safe, stable and non-polluting</p> <p>b) Minimise the visual impact of any above ground ancillary infrastructure agreed to be retained for an alternative use</p>																
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Community	<p>e) Ensure public safety at all times</p>																
4, 1	Environmental Management and Reporting	Environmental Management - Environmental Management Strategy	<p>Prior to commencing the development, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must:</p> <p>a) provide the strategic framework for environmental management of the development;</p> <p>b) identify the statutory approvals that apply to the development;</p> <p>c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;</p> <p>d) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none">keep the local community and relevant agencies informed about the operation and environmental performance of the development;receive, handle, respond to, and record complaints;resolve any disputes that may arise;	The EMS has been designed to ensure compliance with the development consent	Prior to development and/or construction of the development	LSbp is responsible for the preparation of the EMS, however, implementation of the plan will be responsibility of the EPC Contractor (EPC Project Manager / HSE Coordinator) (construction) and O&M Site Manager (operations)	This EMS										

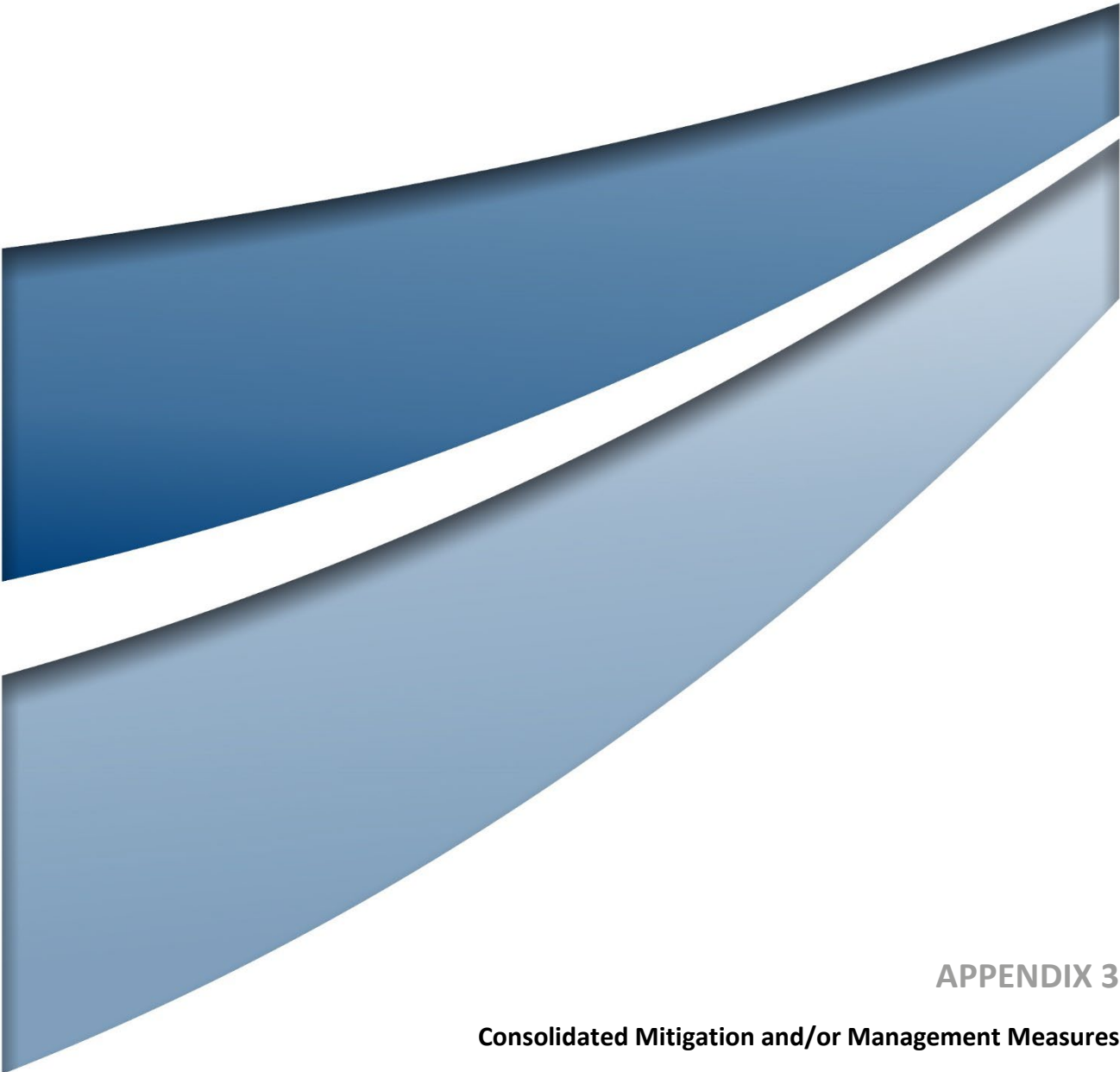
Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<ul style="list-style-type: none"> respond to any non-compliance; respond to emergencies; and e) include: <ul style="list-style-type: none"> references to any plans approved under the conditions of this consent; and a clear plan depicting all the monitoring to be carried out in relation to the development. <p>Following the Planning Secretary's approval, the Applicant must implement the Environmental Management Strategy.</p>				
4, 2	Environmental Management and Reporting	Environmental Management - Revision of Strategies, Plans and Programs	<p>The Applicant must:</p> <ol style="list-style-type: none"> update the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary prior to carrying out any upgrading or decommissioning activities on site; and review and, if necessary, revise the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary within 1 month of: <ul style="list-style-type: none"> the submission of an incident notification under condition 7 of Schedule 4; the submission of an audit report under condition 11 or 13 of Schedule 4; or any modification to the conditions of this consent. 	Obligations under Condition 2 of Schedule 4 are reflected in the EMS	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	<p>The EPC Contractor (EPC Project Manager/ EPC HSE Coordinator) and O&M Contractor (O&M Site Manager) will review the management plans and strategies and advise LSbp when revisions to the documents are required.</p> <p>The LSbp will revise and submit the updated document to the Planning Secretary for approval.</p> <p>Both the EPC Contractor and O&M Contractor (as relevant) will be responsible for implementing the revised management plans and strategies.</p>	Section 9.0 of this EMS
4, 3	Environmental Management and Reporting	Environmental Management - Updating and Staging of Strategies, Plans or Programs	<p>With the approval of the Planning Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis.</p> <p>To ensure the strategies, plans or programs under the conditions of this consent are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Planning Secretary for approval.</p>	Obligations under Condition 3 of Schedule 4 are reflected in the EMS	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	Any staged or revised management plans or strategies would be prepared and submitted to the Planning Secretary for	N/A

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
			<p>With the agreement of the Planning Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this consent.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> While any strategy, plan or program may be submitted on a progressive basis, the Applicant must ensure that all development being carried out on site is covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program. 			<p>approval by the LSbp Project Team</p> <p>Both the EPC Contractor and O&M Contractor (as relevant) will be responsible for implementing the management plans and strategies as approved by the Planning Secretary.</p>	
4, 4	Environmental Management and Reporting	Notifications - Notification of Department	Prior to commencing the road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations, the Applicant must notify the Department in writing via the Major Projects website portal of the date of commencement, or cessation, of the relevant phase. If any of these phases of the development are to be staged, then the Applicant must notify the Department in writing prior to commencing the relevant stage, and clearly identify the development that would be carried out during the relevant stage.	LSbp will notify the Department of road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations prior to commencement of works.	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	<p>The EPC Project manager will advise LSbp when it intends to commence or cease each relevant phase.</p> <p>The LSbp Project Team will be responsible for notifying the Department.</p>	N/A
4, 5	Environmental Management and Reporting	Notifications - Final Layout Plans	Prior to commencing construction, the Applicant must submit detailed plans of the final layout of the development to the Department, including details on the siting of solar panels and ancillary infrastructure, via the Major Projects website.	LSbp will submit detailed plans of the final layout of the development to the Department prior to commencing construction.	Prior to development and/or construction of the development	The EPC Project Manager will be responsible for preparing detailed final layout plans. The LSbp Project Team will submit the plans to the Department.	N/A
4, 6	Environmental Management and Reporting	Notifications - Work as Executed Plans	Prior to commencing operations, or following the upgrades of any solar panels or ancillary infrastructure, the Applicant must submit work as executed plans of the development to the Planning Secretary, via the Major Projects website.	LSbp will submit work as executed plans of the development to the Planning Secretary prior to operation of the development.	Prior to operation of the development	<p>The EPC Project Manager will be responsible for preparing work as executed plans.</p> <p>The LSbp Project Team will submit the</p>	N/A

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
						plans to the Department.	
4, 7	Environmental Management and Reporting	Notifications - Incident Notification	The Department must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 6.	Obligations under Condition 7 of Schedule 4 are reflected in the EMS	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	The EPC Project Manager will immediately notify LSbp of any incident. The LSbp Project Team will notify the Department.	Section 10.1.1 of the EMS
4, 8	Environmental Management and Reporting	Notifications - Non-Compliance Notification	The Department must be notified in writing via the Major Projects website within 7 days after the Applicant becomes aware of any non-compliance.	Obligations under Condition 8 of Schedule 4 are reflected in the EMS	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	The EPC Project Manager will immediately notify LSbp of any non-compliance. The LSbp Project Team will notify the Department.	Section 10.1.2 of the EMS
4, 9	Environmental Management and Reporting	Notifications - Non-Compliance Notification	A non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been done, or will be, undertaken to address the non-compliance.	Obligations under Condition 9 of Schedule 4 are reflected in the EMS	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	The EPC Project Manager will provide the required information to LSbp in respect of any non-compliance. The LSbp Project Team will provide the required information to the Department.	Section 10.1.2 of the EMS
4, 10	Environmental Management and Reporting	Notifications - Non-Compliance Notification	A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Noted.			
4, 11	Environmental Management and Reporting	Independent Environmental Audit	Independent Audits of the development must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (2020) to the following frequency: (a) within 3 months of commencing construction; and (b) within 3 months of commencing operations.	Obligations under Condition 11 of Schedule 4 are reflected in the EMS	At all stages of construction, operation and decommissioning of the development	The EPC Project Manager must participate in independent audits and provide all necessary information. The LSbp Project Team will engage the independent auditor, subject to the	Section 11.2 of the EMS

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
						agreement of the Planning Secretary.	
4, 12	Environmental Management and Reporting	Independent Environmental Audit	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.	Obligations under Condition 12 of Schedule 4 are reflected in the EMS	At all stages of construction, operation and decommissioning of the development	The LSbp Project Team will seek the Planning Secretary's endorsement of the auditor prior to commissioning each independent audit.	Section 11.2 of the EMS
4, 13	Environmental Management and Reporting	Independent Environmental Audit	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in condition 11 of Schedule 4, upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.	Obligations under Condition 13 of Schedule 4 are reflected in the EMS	At all stages of construction, operation and decommissioning of the development	LSbp Project Team	Section 11.2 of the EMS
4, 14	Environmental Management and Reporting	Independent Environmental Audit	In accordance with the specific requirements of the Independent Audit Post Approval Requirements (2020), the Applicant must: <ul style="list-style-type: none"> review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of this consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary; submit the response to the Planning Secretary; and make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary, unless otherwise agreed by the Planning Secretary. 	Obligations under Condition 14 of Schedule 4 are reflected in the EMS	At all stages of construction, operation and decommissioning of the development	<p>The EPC Project Manager will prepare a response to the Independent Audit Report and must implement any recommendations arising from the audit.</p> <p>The LSbp Project Team will submit the response to the Planning Secretary and made the Audit Report available on the development website.</p>	Section 11.2 of the EMS
4, 15	Environmental Management and Reporting	Independent Environmental Audit	Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the <i>Independent Audit Post Approval Requirements</i> (2020) unless otherwise agreed by the Planning Secretary.	Obligations under Condition 15 of Schedule 4 are reflected in the EMS	At all stages of construction, operation and decommissioning of the development	As above	Section 11.2 of the EMS
4, 16	Environmental Management and Reporting	Independent Environmental Audit	Notwithstanding the requirements of the <i>Independent Audit Post Approval Requirements</i> (2020), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.	Obligations under Condition 16 of Schedule 4 are reflected in the EMS	At all stages of construction, operation and decommissioning of the development	As above	Section 11.2 of the EMS

Schedule, Condition	Section	Sub-section	Condition	Interaction With LSbp Integrated Management System	Timing of Implementation	Responsibility	Where addressed in EMS or other Management Plans and Strategies
4, 17	Environmental Management and Reporting	Access to Information	<p>The Applicant must:</p> <ul style="list-style-type: none"> make the following information publicly available on its website as relevant to the stage of the development: <ul style="list-style-type: none"> the EIS; the final layout plans for the development; current statutory approvals for the development; approved strategies, plans or programs required under the conditions of this consent; the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged; provide a 24hr telephone line and instruction as to how complaints or enquiries about the development can be made; a complaints register; any independent environmental audit, and the Applicant's response to the recommendations in any audit; and any other matter required by the Planning Secretary; and keep this information up to date. 	Obligations under Condition 17 of Schedule 4 are reflected in the EMS	Prior to development and/or construction, then at all stages of construction, operation and decommissioning of the development	<p>The EPC Project Manager and O&M Site Manager will provide copies of the required documents to LSbp for publication, where relevant.</p> <p>The LSbp Project Team will make the required documents available on the development website.</p>	Section 6.1 of the EMS



APPENDIX 3

Consolidated Mitigation and/or Management Measures

The table below consolidates all mitigation and/or management measures presented within the plan and strategies prepared in accordance with the development consent. It provides commitments regarding applicable development phases, responsibilities, timing and records. Further details regarding each measure is provided within the relevant section of each applicable plan or strategy. From left to right, the columns of this table describe:

- The 'Source': where the measure has been recommended for the development.
- The 'ID': a unique identifier for each measure, as identified within the plan or strategy.
- The 'Aspect': a high-level summary of what matter is being mitigated.
- The 'Mitigation / Management Measure': describes the actions that will be undertaken to reduce the impacts of the development, including a summary of any proposed techniques that will be used to implement the mitigation.
- The 'Development Phase': identifies what part of the development phase the measure will apply. A measure can apply to multiple development phases.
- The 'Responsible Party': identifies which group is responsible for implementing the applicable measure. The 'Personnel Responsible' column identifies the individual from the 'Responsible Party' who is to implement the mitigation. Numbers 1-6 have been used to represent which individual is responsible, as follows:
 - 1 LSbp Development Principal
 - 2 Engineer, Procurement & Construction (EPC) Site Manager
 - 3 EPC Health, Safety and Environment (HSE) Coordinator
 - 4 Contract ecologist
 - 5 Heritage Specialist
 - 6 All Employees and Contractors
 - 7 Operations and Maintenance (O&M), Site Manager
 - *Note: for some mitigation measures, there is more than one 'Responsible Party' and 'Personnel Responsible'*
- The 'Timing/Frequency': describes when a measure is to be implemented, or how frequently it is to be implemented.
- The 'Implementation Action': provides a high-level statement that show how the mitigation/proposed techniques for each measure are practically being done within the development area. These procedures are described within the relevant section of each applicable plan or strategy.
- The 'Compliance Record': identifies the record that will be used to maintain compliance with the applicable measure.

Consolidated Mitigation and Management Measures for the Development

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
Traffic														
SSD8895 Development Consent	TMP-01a	Traffic (General)	Prepare a TMP in accordance with Schedule 3, Condition 9	✓	✓	✓	✓	✓	-	-	1	Prior to commencing the road upgrades	The TMP	The TMP
SSD8895 Development Consent	TMP-01b	Traffic (General)	Implement a TMP in accordance with Schedule 3, Condition 9	✓	✓	✓	✓	-	✓	✓	2, 3	Prior to commencing the road upgrades	The TMP	The TMP
SSD8895 Development Consent	TMP-02	Traffic (General)	The nominated transport route via Mitchell Highway and Goolma Road and Twelve Mile Road is to be used by construction vehicles, including oversize/ overmass vehicles in accordance with Condition 4 of the Development Consent (SSD-8895). Routes to be utilised to ensure compliance with TfNSW and National Heavy Vehicle Regulator (NHVR) road access provisions.	✓	✓	-	-	-	✓	-	5	Daily	Sections 3.3 and 5.4 of the TMP	Daily site inspection record
SSD8895 Development Consent	TMP-03	Traffic (General)	Temporary traffic control signage (and presence of traffic controllers, where required) to be implemented on approaches to the road works area in accordance with Traffic Control Plans.	✓	✓	-	-	-	✓	-	2, 3	Daily	Section 5.1 of the TMP	Daily site inspection record
SSD8895 Development Consent	TMP-04	Traffic (General)	Maximum number of construction vehicle trips to be maintained in accordance with Condition 2 of the Development Consent (SSD-8895) to avoid causing a negative impact on general traffic and school bus routes on Goolma Road.	✓	✓	-	-	-	✓	-	2, 3	Daily	Chapter 5 of the TMP	Daily site inspection record
SSD8895 Development Consent	TMP-05	Traffic (General)	Employee shuttle bus service and car-pooling to be implemented throughout construction to avoid causing negative impacts on the surrounding road network as a result of increased staff car trips.	✓	✓	-	-	-	✓	-	2, 3	Daily	This TMP, Section 5.5	Daily site inspection record
SSD8895 Development Consent	TMP-06	Traffic (General)	Construction vehicle parking to be undertaken on-site to avoid parking within	✓	✓	-	-	-	✓	-	2, 3	Daily	Section 3.6 of the TMP	Daily site inspection record

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			the public road network with potential to result in negative traffic and safety impacts.											
SSD8895 Development Consent	TMP-07	Traffic (General)	Notification of lane closures/ changed road conditions to the local community to avoid negative impacts to residents, businesses, industries etc.	✓	✓	-	-	-	✓	-	2	Prior to Construction	Section 5.9 of the TMP	Consultation records
SSD8895 Development Consent	TMP-08	Traffic (General)	Implement a feedback register to record complaints and compliments, which would be reviewed monthly to determine any systematic issues arising from the project.	✓	✓	-	-	-	✓	-	2, 3	Monthly	Section 5.8 of the TMP	As per EMS procedures
SSD8895 Development Consent	TMP-09	Traffic (General)	Implement an employee induction and training program, and Driver Code of Conduct to ensure employees are adequately informed of the project details, appropriately skilled to carry-out tasks, and to be aware of their role and responsibilities.	✓	✓	-	-	-	✓	-	2, 3	Once-off	Sections 5.2 and 5.3 of the TMP	Workers / Drivers Site Induction and Training Program to be developed by EPC HSE
SSD8895 Development Consent	TMP-10	Traffic (General)	Consultation with Uungula Wind Farm project team to discuss timing of project and to ensure cumulative impacts, if any, are managed to be maintained at a reasonable level.	✓	✓	-	-	✓	✓	-	1, 2	Ongoing	Section 5.9 of the TMP	Consultation records
SSD8895 Development Consent	TMP-11	Traffic (General)	Implement rumble grids at the site access points to minimise dirt tracked onto the public road network from construction vehicles.	✓	✓	-	-	-	✓	-	2	Once-off	Section 3.3 of the TMP	Design documentation
SSD8895 Development Consent	TMP-12	Traffic (General)	Deliveries of material and/or equipment to the development site would be scheduled throughout the day to minimise heavy vehicle convoys deliveries on the surrounding road network or platoons (closely spaced heavy vehicle arrivals) at the development site.	✓	✓	-	-	-	✓	-	2, 3	Ongoing	Section 5.4 of the TMP	Works planning, Compliance records
SSD8895 Development Consent	TMP-13	Traffic (General)	Advisory road signage will be installed to inform motorists travelling on Goolma Road of roadworks ahead, speed reduction ahead, and construction vehicles turning into and out of the construction site access.	✓	✓	-	-	-	✓	-	2, 3	Ongoing	Section 5.4 of the TMP	Daily site inspection record

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			This signage will be erected on new signposts on approach to the works area for the duration of the road upgrade and solar farm construction works.											
SSD8895 Development Consent	TMP-14	Traffic (General)	Site induction would cover details on the nominated vehicle routes to and from the site, as well as standard environmental, workplace health and safety, driver protocols and emergency procedures.	✓	✓	-	-	-	✓	-	2, 3	Once-off	Sections 5.2 and 5.3 of the TMP	Workers / Drivers Site Induction and Training Program to be developed by EPC HSE
SSD8895 Development Consent	TMP-15	Traffic (General)	Site induction and staff training pack would be developed and implemented for workers, vehicle drivers and sub-contractors who will enter the site.	✓	✓	-	-	-	✓	-	2, 3	Once-off	Sections 5.2 and 5.3 of the TMP	Workers / Drivers Site Induction and Training Program to be developed by EPC HSE
SSD8895 Development Consent	TMP-16	Traffic (General)	Information of the shuttle bus routes and pick-up/ drop-off times and locations would be provided in the staff induction pack to inform workers early in the construction timeline when workers are likely to be planning their method of transport to/from work.	✓	✓	-	-	-	✓	-	2, 3	Ongoing	Section 5.5 of the TMP	Workers / Drivers Site Induction and Training Program to be developed by EPC HSE
SSD8895 Development Consent	TMP-17	Traffic (General)	Prior to commencement of construction works, all drivers shall be provided with a copy of the Driver Code of Conduct.	✓	✓	-	-	-	✓	-	2, 3	Once-off	Section 5.3 of the TMP	Workers / Drivers Site Induction and Training Program to be developed by EPC HSE
SSD8895 Development Consent	TMP-18	Traffic (General)	There will be provision of a certain number of onsite car parking spaces, which will be frequently monitored to identify any increase in parking demand.	✓	✓	-	-	-	✓	-	2, 3	Ongoing	Section 5.5 of the TMP	Daily site inspection record
SSD8895 Development Consent	TMP-19	Traffic (General)	A Car-pool Networking Scheme will be prepared in accordance with Section 5.5 of the TMP.	✓	✓	-	-	-	✓	-	3	Once-off	Section 5.5 of the TMP	Car-Pool Networking Scheme
SSD8895 Development Consent	TMP-20	Traffic (General)	Secure storage would be available on-site to trades for safely storing tools/ equipment,	✓	✓	-	-	-	✓	-	2	Ongoing	Section 5.5 of the TMP	Daily site inspection record

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			which would otherwise necessitate a higher rate of workers driving to site.											
SSD8895 Development Consent	TMP-21	Traffic (General)	A Community Information and Awareness Program about the planned construction, timing and transport routes will be implemented.	✓	✓	-	-	-	✓	-	3	Once-off	Section 5.6 of the TMP	Community Information and Awareness Program
SSD8895 Development Consent	TMP-22	Traffic (General)	Consultation with local landholders, correctional facilities and local community will be undertaken to provide information regarding planned traffic and access disruptions.	✓	✓	-	-	-	✓	-	3	Ongoing	Section 5.9 of the TMP	Consultation records
Landscaping														
SSD8895 Development Consent	LP-01a	Landscaping (general)	Prepare a Landscaping Plan (LP) in accordance with Schedule 3, Condition 11 including engaging in consultation with Council and receivers R2, R3, R4, R6, R21 and R22.	✓	-	-	-	✓	-	-	1	Prior to construction	The LP	The LP
SSD8895 Development Consent	LP-01b	Landscaping (general)	Implement a LP in accordance with Schedule 3, Condition 10	✓	✓	✓	✓	-	✓	✓	2, 3	Prior to construction	The LP	The LP
VIA (NGH ENVIRONMENTAL 2021)	LP-02	Landscaping (screening)	Provide screening a band of screening of varying height in nominated locations to augment existing vegetation and/or provide infill to mitigate impacts on properties with the possibility of exposure to the proposed development.	✓	-	-	-	-	✓	-	2, 3	Prior to construction	The LP	The LP
VIA (NGH ENVIRONMENTAL 2021)	LP-03	Landscaping (screening)	Ensure screen planting integrates into the existing landscape character using a mix of endemic tree & shrub species.	✓	-	-	-	-	✓	-	2, 3	Prior to construction	The LP	The LP
VIA (NGH ENVIRONMENTAL 2021)	LP-04	Landscaping (screening)	Supply supplementary screening to exposed buildings associated with the development where located in close proximity to Goolma or Cobbora Roads if existing vegetation is insufficient to provide adequate screening.	✓	-	✓	✓	-	✓	-	2, 3	Prior to construction	The LP	The LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
VIA (NGH ENVIRONMENTAL 2021)	LP-05	Landscaping (screening)	Screen planting is to be successfully maintained regularly for a period of 24 months. The work is to include weed removal and the replacement of dead or non-performing plants.	-	✓	✓	✓	-	✓	✓	2, 3, 7	As prescribed in the Vegetation Management Program included in the LP	As prescribed in the Vegetation Management Program included in the LP.	As prescribed in the Task Allocation Schedule included in the LP.
VIA (NGH ENVIRONMENTAL 2021)	LP-06	Constructed Elements (Materials & Colours)	Materials and colours of site sheds, battery storage and associated infrastructure should be non-reflective and be of a neutral colour.	-	-	-	✓	✓	✓	-	2, 3	Selections to be made when documenting the nominated elements	Main Works Construction	Principle Certifying Authority
SSD8895 Development Consent	LP-07	Landscaping (planting)	Implement screen planting along the west of the development boundary as per detail plan LP101 of the LP.	-	✓	-	-	-	✓	-	2, 3	Prior to construction, or as approved by DPE under the revised planting timing requirements for the development	As outlined in detail plans LP101 of the LP	The LP
SSD8895 Development Consent	LP-08	Landscaping (planting)	Implement screen planting along the north-eastern zone of the development boundary as per detail plan LP102 of the LP.	-	✓	-	-	-	✓	-	2, 3	Prior to construction, or as approved by DPE under the revised planting timing requirements for the development	As outlined in detail plans LP102 of the LP	The LP
SSD8895 Development Consent	LP-09	Landscaping (planting)	Implement screen planting along the east of the development boundary as per detail plan LP103 of the LP.	-	✓	-	-	-	✓	-	2, 3	Prior to construction, or as approved by DPE under the revised planting timing requirements for the development	As outlined in detail plans LP103 of the LP	The LP
SSD8895 Development Consent	LP-10	Landscaping (planting)	Implement screen planting within the transmission line easement near R21 and R22, considering safe distances to the proposed 330 kV electricity transmission line as per detail plan LP104 of the LP.	-	✓	-	-	-	✓	-	2, 3	Prior to construction, or as approved by DPE under the revised planting timing requirements for the development	As outlined in detail plans LP104 of the LP	The LP
SSD8895 Development Consent	LP-11	Landscaping (planting schedule)	Undertake planting in accordance with the planting schedule/planting details and vegetation buffer planting plans 1/LP201 and 2/LP201 of the LP.	-	✓	-	-	-	✓	-	2, 3	Prior to construction, or as approved by DPE under the revised planting timing requirements for the development	As outlined in detail plans LP201 of the LP	The LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
SSD8895 Development Consent	LP-12	Landscaping (fencing)	Ensure that all stock fences required for the development are installed in accordance with the details provided in LP202 of the LP.	-	✓	-	-	-	✓	-	2, 3	Prior to construction, or as approved by DPE under the revised planting timing requirements for the development	As outlined in detail plans LP202 of the LP	The LP
SSD8895 Development Consent	LP-13	Landscaping (work near trees)	Ensure work near trees is undertaken in accordance with the general specifications outlined in LP301 of the LP. Specifically: <ul style="list-style-type: none"> Do not store or otherwise place bulk materials and harmful materials under or near trees (including spoil from excavations) Do not add or remove topsoil within the Tree Protection Zone (TPZ) or drip line (whichever is the greater) Use hand methods such that root systems are preserved intact and undamaged Where it is necessary to cut tree roots, use means such that the cutting does not unduly disturb the remaining root system. Any damage to trees to be retained will be attended to by a qualified arborist who will prepare a report covering rectification works. 	-	✓	-	-	-	✓	-	2, 3	During construction, and ongoing	As outlined in the general specifications plan LP301 of the LP	Site compliance record, or EPC site manager approval
SSD8895 Development Consent	LP-14	Landscaping (weeds)	Ensure weeds are managed in accordance with the general specifications outlined in LP301 of the LP. Specifically: <ul style="list-style-type: none"> Eradicate weeds prior to start of construction works with follow-up treatments as required. Conduct week inspections every two weeks. Use environmentally acceptable methods using manual methods and a non-residual Glyphosate herbicide at the manufacturer's recommended rates. Regularly remove, by hand, rubbish and weed growth that may occur or recur 	-	✓	-	-	-	✓	-	2, 3	Prior to, and during construction	As outlined in the general specifications plan LP301 of the LP	Site compliance record, or EPC site manager approval

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			throughout grassed, planted, and mulched areas <ul style="list-style-type: none"> Continue eradication throughout the course of the works and during the Planting Establishment Period so that a weed free area is established at completion of the establishment period. 											
SSD8895 Development Consent	LP-15	Landscaping (set outs and dimensions)	Ensure setouts and dimensions are incorporated in accordance with the general specifications outlined in LP301 of the LP. Specifically: <ul style="list-style-type: none"> Critical design dimensions shall be obtained by the landscape contractor by survey before commencing work. Check engineers' drawings to determine extent of earthworks and structures. 	-	✓	-	-	-	✓	-	2, 3	Prior to construction	As outlined in the general specifications plan LP301 of the LP	Site compliance record, or EPC site manager approval
SSD8895 Development Consent	LP-16	Landscaping (irrigation)	Ensure irrigation is undertaken in accordance with the general specifications outlined in LP301 of the LP. Specifically: <ul style="list-style-type: none"> Landscape will primarily be passively irrigated, and plant species selected will have low water requirements. During the installation and establishment period, the landscape will be irrigated via water truck. 	-	✓	-	-	-	✓	-	2, 3	Prior to, and during construction	As outlined in the general specifications plan LP301 of the LP	Site compliance record, or EPC site manager approval
SSD8895 Development Consent	LP-17	Landscaping (mulch)	Ensure all mulching activities are undertaken in accordance with the general specifications outlined in LP301 of the LP. Specifically: <ul style="list-style-type: none"> Use organic mulch as scheduled which is free of deleterious and extraneous matter such as soil, weeds, and sticks, and which complies with Australian Standards specifying less than 5% fines. Use first well-rotted mulch chipped on site, chip to match Australian Native Landscapes 'Forest Blend' 20-40mm mulch. During application, place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. 	-	✓	-	-	-	✓	-	2, 3	During construction	As outlined in the general specifications plan LP301 of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
SSD8895 Development Consent	LP-18	Landscaping (soils)	<p>Ensure all soils required for landscaping activities are selected, tested, and cultivated in accordance with the general specifications outlined in LP301 of the LP. Specifically:</p> <ul style="list-style-type: none"> All soil used in the project shall be in accordance with Soils for Landscape Development, Selection, Specification & Validation (Leake & Haeger), soil type D1. Undertake soil tests on stockpiled soil designated for re-use or imported organic soil (as required), and provide copies of test results to the EPC HSE Coordinator Ameliorate as recommended in soil tests to bring soil up to the standards for horticultural grade organic soil to Australian Standards. Cultivate bases of planting holes and beds 150mm, do not use augers unless followed with cultivation of sides and base. Do not disturb services or tree roots. Cultivate manually within 300 mm of paths or structures. Remove stones exceeding 25 mm, clods of earth exceeding 50 mm, and any weeds, rubbish or other deleterious material brought to the surface during cultivation Apply additives to stockpiled site topsoil as required by soil tests if scheduled in the general specification. 	-	✓	-	-	-	✓	-	2, 3	Prior to, and during construction (if needed)	As outlined in the general specifications plan LP301 of the LP	Site compliance record, or EPC site manager approval
SSD8895 Development Consent	LP-19	Landscaping (maintenance - general)	<p>The EPC Contractor shall undertake the following in accordance with the maintenance specification LP302 of the LP:</p> <ul style="list-style-type: none"> Provide regular maintenance services as outlined in these Landscape Maintenance Specifications and the monthly checklists for this project site. 	-	✓	✓	-	-	✓	-	2, 3	During construction	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<ul style="list-style-type: none"> Examine the landscape on a regular basis, as required dependent on current site conditions. Provide regular maintenance services looking for problems or potential problems with the landscape. Provide at his/her own risk all labour, materials, tools, equipment, insurance, transportation, hauling, dumping, and all other items needed to provide the services outlined in the maintenance specification LP302 Take responsibility for making minor repairs to landscape facilities as needed and agreed with Operations and Maintenance (O&M) site manager Take all reasonable precautions required to protect plants from abnormal temperatures. Implement and keep a maintenance log book recording when and what maintenance work has been undertaken and what materials, actions and decisions have been used, implemented, and concluded to keep the landscape always looking its best. Observe trends and develop a maintenance regime around seasonal and observed event occurrences. 											
SSD8895 Development Consent	LP-20	Landscaping (maintenance - pruning)	<p>Pruning of trees and shrubs shall be undertaken in accordance with the maintenance specifications LP302 of the LP. Specifically:</p> <ul style="list-style-type: none"> Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases. Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct horticultural techniques Prune trees only in appropriate months as determined by an arborist, undertaken in the correct season to co- 	-	✓	✓	-	-	✓	✓	2, 3, 7	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<p>ordinate with new growth and avoid loss of flowers</p> <ul style="list-style-type: none"> Trees and shrubs shall be maintained in a healthy, vigorous growing condition, free from disease and large concentrations of pests Prune tree branches to allow a minimum 300mm clearance above ground and progressively to provide a 2m clear trunk as growth will allow Discard all tree trimmings off-site using a legal method on day of works being undertaken, causing no damage to site Removal and replacement must be undertaken causing minimal disturbance to existing plants Inspect tree stakes upon each maintenance visit and make necessary adjustments as required ensuring no damage to immature trunk or stem of plants. Trees planted for screening purposes shall not be pruned except as needed to remove dead, diseased, broken, dangerous, or crossing branches 											
SSD8895 Development Consent	LP-21	Landscaping (maintenance - pruning)	An LSbp-authorized representative shall approve replacement trees for size and appearance prior to planting. Correct planting technique must be used and replacement trees shall be double staked with 50 mm diameter stakes unless otherwise approved by the LSbp-authorized representative.	-	✓	✓	-	✓	-	-	1	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	The LP
SSD8895 Development Consent	LP-22	Landscaping (maintenance - fertilisers)	<p>The use of fertilisers shall be undertaken in accordance with the maintenance specifications LP302 in the LP. Specifically:</p> <ul style="list-style-type: none"> Granular fertiliser to mass planted areas shall be slow release applied at maximum label rate for plant types at intervals indicated in Annual Maintenance Schedule to ensure 	-	✓	✓	-	-	✓	✓	2, 3, 7	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<p>optimum plant nutrient requirements are maintained.</p> <ul style="list-style-type: none"> Water immediately after applying to move the fertiliser into the soil and wash the fertiliser off plant surfaces. Undertake a long term fertiliser regime as per soil test results (see LP-18). Application of initial fertiliser/additive application at time of planting as per soil test results (see LP-18). 											
SSD8895 Development Consent	LP-23	Landscaping (maintenance – weed control)	<p>Control of weeds shall be undertaken in accordance with the maintenance specifications LP302 in the LP. Specifically:</p> <ul style="list-style-type: none"> Eradicate weeds by environmentally acceptable methods using a non-residual Glyphosate herbicide suitable for environmentally sensitive areas (such as Bi-active Roundup or similar), at the maximum recommended rate. Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout planted areas. There shall be no greater than 2% weed coverage within planting areas and shall not exceed 50mm tall. Herbicide application for ongoing maintenance must be kept to a minimum. Use surfactants to increase herbicide effectiveness by breaking down the leaf surface tension. 	-	✓	✓	-	-	✓	✓	2, 3, 7	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP
SSD8895 Development Consent	LP-24	Landscaping (maintenance – mulching)	<p>Mulching shall be undertaken in accordance with the maintenance specifications LP302 in the LP. Specifically:</p> <ul style="list-style-type: none"> Mulch shall be applied to all tree / shrub planted areas to maintain a depth of 75mm, to limit weed infestation and maintain moisture and nutrient content of garden. Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. 	-	✓	✓	-	-	✓	✓	2, 3, 7	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<ul style="list-style-type: none"> Replacement of large amounts of mulch (over 0.75 cubic metre), which has been stolen, vandalized, or washed away by a single storm shall be replaced in agreement with project manager. 											
SSD8895 Development Consent	LP-25	Landscaping (maintenance – watering)	<p>Watering shall be undertaken in accordance with the maintenance specifications LP302 in the LP. Specifically:</p> <ul style="list-style-type: none"> Hand water, water truck or other irrigation as needed to supplement natural rainfall and maintain plantings in a healthy, stress-free condition. It is the responsibility of the EPC to make sure that plants receive adequate water regardless of weather conditions. Watering should be undertaken during periods of minimum evaporation (i.e. during the coolest times of the day or when the garden bed is in the shade). Shrubs and trees in full sun must not be watered on the foliage to avoid leaf scorching. It is the EPC's responsibility to conserve water and assure that all watering rules and regulations are followed. Any penalties, fines, or citations for watering ordinance violations shall be paid by the EPC. 	-	✓	✓	-	-	✓	✓	2, 3, 7	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP
SSD8895 Development Consent	LP-26	Landscaping (maintenance – chemicals)	All chemicals shall be used in accordance with label directions and the manufacturer's recommended handling methods. All chemicals shall be handled in accordance with all applicable regulations. Registered chemicals shall be used only on the advice of a qualified, licensed if required, pest control advisor. Nothing in this specification shall be construed to be the advice of, or to substitute for the advice of, a pest control advisor.	-	✓	✓	-	✓	✓	✓	2, 3, 7	During construction, and operations and maintenance	As outlined in the maintenance specifications (LP302) of the LP	Site compliance record, or EPC site manager approval, as nominated in the Vegetation Management Program outlined in LP303 of the LP
SSD8895 Development Consent	LP-27	Landscaping (maintenance program)	It is the responsibility of the EPC to implement the vegetation management program outlined in the maintenance program LP303 of the LP. Ongoing	-	✓	✓	-	-	✓	✓	2, 3, 7	Ongoing for the life of the project ceasing with project decommissioning	As outlined in the maintenance program LP303 of the LP	Site compliance record, or EPC site manager approval, as nominated in the

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			maintenance activities are required to be undertaken for two years following commencement of operations to meet the requirements of condition 8 of the project approval.											Vegetation Management Program outlined in LP303 of the LP
Biodiversity														
SSD8895 Development Consent	BMP-01a	Biodiversity (general)	Prepare a BMP in accordance with Schedule 3, Condition 15	✓	✓	✓	✓	✓	-	-	1	Prior to construction	As per approved BMP	As per approved BMP
SSD8895 Development Consent	BMP-01b	Biodiversity (general)	Implement this BMP in accordance with Schedule 3, Condition 15	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction	As per approved BMP	As per approved BMP
BDAR (NGH Environmental 2021)	BMP-02	Biodiversity (fauna)	<p>Time works to avoid critical life cycle events such as breeding or nursing.</p> <p>Proposed techniques: where practicable, hollow bearing trees will not be removed during breeding season or hibernation period to mitigate impacts on threatened species known or assumed present within the development area. Specifically:</p> <ul style="list-style-type: none"> Hollow bearing trees that occur within suitable Southern Myotis breeding habitat, as shown on Figure 6 2, will not be removed between June and April <p>Hollow bearing trees that occur outside the area specified above will not be removed between June and November. If clearing needs to take place during the timeframes specified above, preclearing surveys for hollow dependent fauna will be carried out. Hollows utilised by breeding individuals or dependent young would not be removed during they key breeding timeframes listed above, or have been vacated.</p>	✓	✓	-	-	-	✓	-	2, 3, 4	<p>Where practicable, the clearance of hollow bearing trees is to be planned for outside of the breeding season or hibernation period (June to November) for the threatened species known or assumed to be present.</p> <p>Pre-clearance surveys are to be undertaken before any hollow-bearing trees/habitat are cleared.</p> <p>If clearing needs to take place during the timeframes specified above, preclearing surveys for hollow dependent fauna will be carried out.</p>	Vegetation Disturbance Permit Procedure (Section 6.2.3 of the approved BMP) and Pre-Clearance Survey Procedure (Section 6.2.4 of the approved BMP).	Weekly Site Environmental Inspection Record.
BDAR (NGH Environmental 2021)	BMP-03	Biodiversity (fauna)	<p>Implement clearing protocols including pre-clearing surveys, daily surveys and staged clearing in the presence of a trained ecologist or licensed wildlife handler during clearing events.</p> <p>Proposed techniques:</p>	-	✓	-	-	-	✓	-	2, 3, 4	Daily	Pre-Clearance Survey Procedure (Section 6.2.4 of the approved BMP) and Tree Felling and Fauna Habitat Feature Removal Procedure	Daily Activity Pre-start Briefing Record

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<ul style="list-style-type: none"> Pre-clearing checklist. Tree clearing procedure. 										(Section 6.2.6 of the approved BMP).	
BDAR (NGH Environmental 2021)	BMP-04	Biodiversity (fauna)	Relocate habitat features (fallen timber, hollow logs, rocks) from within the development footprint. Proposed techniques: tree-clearing procedure including relocation of habitat features to Restoration Zones or areas of temporary disturbance for habitat enhancement.	-	✓	-	-	-	✓	-	2, 3, 4	Once off	Tree Felling and Fauna Habitat Feature Removal Procedure (Section 6.2.6 of the approved BMP), Re-use of Coarse Woody Debris (Section 6.7.5 of the approved BMP), and Re-use of Rocks (Section 6.7.6 of the approved BMP).	Daily Activity Pre-start Briefing Record
BDAR (NGH Environmental 2021)	BMP-05	Biodiversity (flora)	Clearing protocols that identify vegetation to be retained, prevent inadvertent damage and reduce soil disturbance; for example, removal of native vegetation by chainsaw, rather than heavy machinery, is preferable in situations where partial clearing is proposed. Proposed techniques: <ul style="list-style-type: none"> Approved clearing limits to be clearly delineated with temporary fencing or similar prior to construction commencing. No stockpiling or storage within dripline (the area directly located under the outer circumference of the tree branches) of any mature trees. In areas to clear adjacent to areas to be retained, chainsaws would be used rather than heavy machinery to minimize risk of disturbance, where practical. 	✓	✓	-	-	-	✓	-	2, 3, 4	Once off	Monitoring the Total Clearing Footprint for the Development (Section 6.2.1 of the approved BMP), Pre-Clearance Survey Procedure (Section 6.2.4 of the approved BMP) and Pruning Procedure (Section 6.2.4 of the approved BMP).	Weekly Site Environmental Inspection Record
BDAR (NGH Environmental 2021)	BMP-06	Biodiversity (fauna)	Noise barriers or daily/seasonal timing of construction and operational activities to reduce impacts of noise. Proposed techniques: CEMP will include measures to avoid noise encroachment on adjacent habitats such as avoiding night works as much as possible.	-	✓	✓	-	-	✓	✓	2, 3, 4	Once off	Noise, Light and Dust Management (Section 6.8 of the approved BMP).	Daily Activity Pre-start Briefing Record

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
BDAR (NGH Environmental 2021)	BMP-07	Biodiversity (fauna)	Light shields or daily/seasonal timing of construction and operational activities to reduce impacts of light spill. Proposed techniques: <ul style="list-style-type: none">○ Avoid night works.○ Direct lights away from native vegetation and fauna habitat features	-	✓	✓	-	-	✓	✓	2, 3, 4	Once off	Noise, Light and Dust Management (Section 6.8 of the approved BMP).	Daily Activity Pre-start Briefing Record
BDAR (NGH Environmental 2021)	BMP-08	Biodiversity (flora)	Adaptive dust monitoring programs to control air quality. Proposed techniques: <ul style="list-style-type: none">○ Daily monitoring of fugitive dust emissions generated by construction activities.○ Construction would cease if dust was observed being blown from off-site from the development area until control measures were implemented. All activities relating to the development would be undertaken with the objective of preventing visible off-site dust emissions from the development area.	✓	✓	✓	-	-	✓	✓	2, 3, 4	Once off	Noise, Light and Dust Management (Section 6.8 of the approved BMP).	Daily Activity Pre-start Briefing Record
BDAR (NGH Environmental 2021)	BMP-09	Biodiversity (flora)	Temporary fencing to protect significant environmental features such as all riparian zones. Proposed techniques: prior to construction commencing, exclusion fencing, and signage would be installed around habitat to be retained. Temporary fencing would be removed prior to operation	✓	✓	-	-	-	✓	-	2, 3, 4	Once off	Exclusion Fencing and Signage Procedure (Section 6.2.2 of the approved BMP).	Weekly Site Environmental Inspection Record.
BDAR (NGH Environmental 2021)	BMP-10	Biodiversity (flora)	Hygiene protocols to prevent the spread of weeds or pathogens between infected areas and uninfected areas. Proposed techniques: a Weed Management procedure would be developed for the proposal to prevent and minimize the spread of weeds. This would include: <ul style="list-style-type: none">○ Management protocol for declared Priority Weeds under the Biosecurity Act,	-	✓	✓	-	-	✓	✓	2, 3, 4, 6	Monthly	Weed Management Procedure (Section 6.5 of the approved BMP).	Monthly Management Job Safety and Environment Observation Record.

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<p>WONS, and High Threat Weeds (HTW) during and after construction.</p> <ul style="list-style-type: none"> Weed hygiene protocol in relation to plant, machinery, and fill. <p>Any occurrences of pathogens such as Myrtle Rust and <i>Phytophthora</i> would be monitored and reported and treated should it be deemed necessary.</p>											
BDAR (NGH Environmental 2021)	BMP-11	Biodiversity (flora)	<p>Staff training and development area briefing to communicate environmental features to be protected and measures to be implemented.</p> <p>Proposed techniques:</p> <ul style="list-style-type: none"> Development area induction. Toolbox talks. 	-	✓	-	-	-	✓	✓	2, 3	As required and daily	Training Requirements (Section 8.1 of the approved BMP).	Daily Activity Pre-start Briefing Record.
BDAR (NGH Environmental 2021)	BMP-12a	Biodiversity (flora)	<p>Preparation of a biodiversity management plan (BMP) to regulate activity in vegetation and habitat adjacent to the development. The vegetation management plan may include controls on rubbish disposal, wood collection, fire management and disturbance to nests and other niche habitats.</p> <p>Proposed techniques: Prepare a BMP in accordance with Schedule 3, Condition 15 that would include protocols for:</p> <ul style="list-style-type: none"> Protection of native vegetation to be retained. Weed management Establishment of fauna habitat from features salvaged from within the development footprint Monitoring of retained vegetation to ensure biodiversity values are improved or maintained. 	✓	✓	✓	✓	✓	-	-	1	One off preparation	Management of Retained Vegetation (Section 6.7.3 of the approved BMP)	The approved BMP
BDAR (NGH Environmental 2021)	BMP-12b	Biodiversity (flora)	Implementation of the BMP-12a biodiversity management plan	✓	✓	✓	✓	-	✓	✓	2, 3, 4	Ongoing implementation	Management of Retained Vegetation (Section 6.7.3 of the BMP)	Monthly Management Job Safety and

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
														Environment Observation Record.
BDAR (NGH Environmental 2021)	BMP-13a	Biodiversity (general)	Erosion and sediment controls Proposed techniques: <ul style="list-style-type: none"> An erosion and sediment control plan (ESCP) would be prepared in conjunction with the final design and implemented. Sediment barriers or sedimentation ponds to control the quality of water released from the development area into the receiving environment. 	✓	✓	✓	✓	-	✓	✓	2, 3	Once off preparation and then ongoing implementation	Waterways management (Section 6.9 of the approved BMP).	Monthly Management Job Safety and Environment Observation Record.
BDAR (NGH Environmental 2021)	BMP-14a	Biodiversity (general)	Develop a chemical spill response procedure. Proposed techniques: Develop an Emergency Plan (EP) (including the chemical spill response procedure) to assist prevent contaminants affecting adjacent surrounding waterways. The EP is required in accordance with Schedule 3, Condition 29 of the consent.	✓	✓	✓	✓	✓	-	-	1	Once off preparation	Waterways management (Section 6.9 of the approved BMP).	The approved BMP, the EP
BDAR (NGH Environmental 2021)	BMP-14b	Biodiversity (general)	Implement chemical spill response procedure. Proposed techniques: Implementation of the EP (including the chemical spill response procedure) to assist prevent contaminants affecting adjacent surrounding waterways.	✓	✓	✓	✓	-	✓	✓	2, 3	Ongoing implementation	Waterways management (Section 6.9 of the approved BMP).	Monthly Management Job Safety and Environment Observation Record.
BDAR (NGH Environmental 2021)	BMP-15	Biodiversity (general)	Making provision for the ecological restoration, rehabilitation and/or ongoing maintenance of retained native vegetation habitat on or adjacent to the development area. Proposed techniques: preparation and implementation of a vegetation management subplan that would include protocols for: <ul style="list-style-type: none"> Protection of native vegetation to be retained. Weed management Passive restoration of native vegetation 	-	-	✓	-	-	✓	✓	2, 3, 4	Ongoing implementation	Rehabilitation and Restoration Procedure (Section 6.7 of the approved BMP)	Monthly Management Job Safety and Environment Observation Record.

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<ul style="list-style-type: none"> Establishment of fauna habitat from features salvaged from within the development footprint Monitoring of retained vegetation to ensure biodiversity values are improved or maintained. 											
BDAR (NGH Environmental 2021)	BMP-16	Biodiversity (general)	Staff training and development area briefing to communicate impacts of traffic strikes on native fauna. Proposed techniques: <ul style="list-style-type: none"> Awareness training during site inductions regarding enforcing site speed limits. Site speed limits to be enforced to minimize fauna strike. 	-	✓	✓	-	-	✓	✓	2, 3, 4, 6	Monthly or as required	Training Requirements (Section 8.1 of the BMP).	Monthly Management Job Safety and Environment Observation Record.
Heritage														
SSD8895 Development Consent	HMP-01a	Heritage (general)	Prepare a HMP in accordance with Schedule 3, Condition 23	✓	✓	✓	✓	✓	-	-	1	Prior to any development	This HMP	This HMP
SSD8895 Development Consent	HMP-01b	Heritage (general)	Implement this HMP in accordance with Schedule 3, Condition 23	✓	✓	✓	✓	✓	✓	✓	6	Prior to any development	The approved HMP	The approved HMP
SSD8895 Development Consent	HMP-02	Heritage (Aboriginal)	There will be ongoing consultation with the registered Aboriginal parties as detailed in the HMP, in accordance with the provisions of this HMP and the approval consent for the development (SSD 8895).	✓	✓	✓	✓	✓	✓	✓	2, 3, 5	Ongoing throughout pre-construction, construction and decommissioning	Section 7.1.1.1 of the HMP	Consultation Records
Heritage Management Plan	HMP-03	Heritage (Aboriginal)	Opportunity will be provided for Aboriginal party representatives to participate in mitigation and management works. Works may proceed if Aboriginal parties have accepted the opportunity, but do not attend.	✓	✓	✓	✓	-	✓	✓	3, 5	Prior to any mitigation and management works.	Section 7.1.1.1 of the HMP	Consultation Records
Heritage Management Plan	HMP-04	Heritage (Aboriginal)	Fencing will be implemented around all six sites identified in Table 7.1 of the HMP. A minimum 10 m buffer will be fenced around each scarred tree, and 5 m buffer for isolated artifacts.	✓	✓	-	✓	-	✓	-	3, 5	Ongoing throughout pre-construction, construction and decommissioning	Section 7.1.1.2 of the HMP	Site layout plans for Early Works and Main Works, records of inspection

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				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
Heritage Management Plan	HMP-05	Heritage (Aboriginal)	Fencing of the sites in Table 7.1 of the HMP may be of a temporary nature and will remain for the duration of the construction period, and during decommissioning. Standard high visibility fencing mesh would be used.	✓	✓	-	✓	-	✓	-	3	Ongoing throughout pre-construction, construction and decommissioning	Section 7.1.1.2 of the HMP	Records of inspection, Compliance Report
Heritage Management Plan	HMP-06	Heritage (Aboriginal)	Signage would be included along the fencing of each site, identifying it as a 'No-Go' zone.	✓	✓	-	✓	-	✓	-	3	Ongoing throughout pre-construction, construction and decommissioning	Section 7.1.1.2 of the HMP	Records of inspection, Compliance Report
Heritage Management Plan	HMP-07	Heritage (Aboriginal)	Marking out of the appropriate buffer zones for the sites identified in Table 7.1 of the HMP will be undertaken by an archaeologist and two Aboriginal party representatives.	✓	✓	-	✓	-	✓	-	3, 5	Ongoing throughout pre-construction, construction and decommissioning	Section 7.1.1.2 of the HMP	Consultation Records
Heritage Management Plan	HMP-08	Heritage (Aboriginal)	Collection of surface artefacts will be undertaken prior to the commencement of ground disturbance works, at all sites impacted by the development, including nine artefact scatters, and 27 isolated finds, as identified in Table 7.2 and Figure 7.1 of the HMP.	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form, Compliance Report
Heritage Management Plan	HMP-09	Heritage (Aboriginal)	The surface collection will be undertaken in accordance with the following methodology:	✓	✓	-	-	-	✓	-	3, 5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form
Heritage Management Plan	HMP-09a	Heritage (Aboriginal)	The distribution of artefacts will be assessed and where appropriate, artefacts may be grouped for the purposes of recording and analysis	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form, Compliance Report
Heritage Management Plan	HMP-09b	Heritage (Aboriginal)	All artefacts will be flagged and photographed and recorded in accordance with the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010). The following features will be recorded as a minimum: <ul style="list-style-type: none"> ○ Artefact class ○ Raw material ○ Maximum dimension (with additional width and thickness measurements for complete artefacts) 	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form, Compliance Report, Surface Collection Works Report

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<ul style="list-style-type: none"> For retouched artefacts – location and type of retouch Presence of use-wear and/or residues Photographic recording of diagnostic and selected artefacts 											
Heritage Management Plan	HMP-09c	Heritage (Aboriginal)	The location of each scatter (including individual loci within larger scatters) or isolated artefact will be recorded and mapped using a hand-held 12 channel GPS (easting and northing).	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form, Compliance Report
Heritage Management Plan	HMP-09d	Heritage (Aboriginal)	All collected material will be bagged separately in zip-lock bags, and each tagged with a label including a unique identifier number that allows for specific identification of the artefact or group of artefacts (where relevant) with reference to its collection location	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form, Compliance Report
Heritage Management Plan	HMP-09e	Heritage (Aboriginal)	AHIMS Aboriginal Site Impact Recording Forms will be completed for each salvaged site. Each form will then be lodged with Heritage NSW on the AHIMS database.	✓	✓	-	-	-	✓	-	3, 5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form
Heritage Management Plan	HMP-10	Heritage (Aboriginal)	All collected artefacts will be moved to a safe area within the property outside footprint of the construction works and reburied.	✓	✓	✓	✓	-	✓	✓	2, 3, 5	Prior to any development	Section 7.1.1.3 of the HMP	Compliance Report, Surface Collection Works Report
Heritage Management Plan	HMP-11	Heritage (Aboriginal)	The reburial location for the artefacts will be discussed and agreed with Aboriginal party representatives prior to being undertaken. A Cultural Smoking Ceremony will take place to cleanse the salvaged artefacts and the reburial location.	✓	✓	-	-	-	✓	-	3, 5	Prior to any development	Section 7.1.1.3 of the HMP	Compliance Report, Consultation Records
Heritage Management Plan	HMP-12	Heritage (Aboriginal)	The collection, relocation and reburial of the artefacts will be undertaken by a suitably qualified archaeologist with representatives of the registered Aboriginal parties present.	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	Compliance Report
Heritage Management Plan	HMP-13	Heritage (Aboriginal)	The collection, relocation and reburial of the artefacts will be undertaken in accordance with Requirement 26 of the Code of practice	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Aboriginal Site Impact Recording Form

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010).											
Heritage Management Plan	HMP-14	Heritage (Aboriginal)	An additional site card will be completed once the artefacts are moved to record their new location on the AHIMS database.	✓	✓	-	-	-	✓	-	5	Prior to any development	Section 7.1.1.3 of the HMP	AHIMS Site Cards
Heritage Management Plan	HMP-15	Heritage (Aboriginal)	<p>Following completion or conclusion of the surface collection works, a short report will be compiled that presents the findings of the surface collection works, including the recovery of archaeological material.</p> <p>This report will be completed in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH, 2011) and the Code of practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010) and will include:</p> <ul style="list-style-type: none"> ○ A description of the results of the activities including general environmental information and development site context; ○ The results of the artefact recording and analysis of salvaged archaeological material including implications for further contributions to the broader archaeological record of the region; and ○ Details of the new location for the collected artefacts and reburial process. 	✓	✓	-	-	-	✓	-	3, 5	Prior to any development	Section 7.1.1.3 of the HMP	Surface Collection Works Report
Heritage Management Plan	HMP-16	Heritage (Aboriginal)	The surface collection report will be provided as a draft to the registered Aboriginal parties for review and comment. The finalised report will then be provided to Heritage NSW.	✓	✓	-	-	-	✓	-	3, 5	Prior to any development	Section 7.1.1.3 of the HMP	Surface Collection Works Report, Consultation Records
Heritage Management Plan	HMP-17	Heritage (Aboriginal)	<p>A monitoring program will be prepared and implemented to monitor Aboriginal sites that will remain in-situ and not be impacted by the development works. This will include:</p> <ul style="list-style-type: none"> ○ Record of the condition of each site prior to any ground disturbing works taking place (Baseline Check) 	✓	✓	-	✓	-	✓	-	3, 5	Pre-construction and decommissioning	Section 7.1.1.5 of the HMP	Monitoring program

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			<ul style="list-style-type: none"> Record of the condition of the site after ground disturbing works (Post Activity Condition Check). 											
Heritage Management Plan	HMP-18	Heritage (Aboriginal)	The relevant registered Aboriginal party representatives will be provided an opportunity to participate in the monitoring program.	✓	✓	-	✓	-	✓	-	3, 5	Prior to any development	Section 7.1.1.5 of the HMP	Monitoring program
Heritage Management Plan	HMP-19	Heritage (Aboriginal)	<p>The Baseline Check will include, as a minimum:</p> <ul style="list-style-type: none"> Verification of the location of the site (including GPS coordinates) and content Provision of a site plan (where relevant) Completion of detailed digital photography Field notes documenting general condition 	✓	✓	-	✓	-	✓	-	3, 5	Prior to any development	Section 7.1.1.5 of the HMP	Monitoring program
Heritage Management Plan	HMP-20	Heritage (Aboriginal)	<p>Ongoing condition monitoring may be undertaken periodically as agreed with the relevant RAP via a vehicle survey with project/site staff and a RAP representative. Condition checks will involve:</p> <ul style="list-style-type: none"> Evaluation of whether there has been any change to the site or its components If so, information about the nature of changes should be recorded together with updated photographs. <p>When undertaken, a record of the monitoring event will be created and retained with project documentation for completeness and provided to the registered Aboriginal parties and Heritage NSW.</p>	✓	✓	✓	✓	-	✓	✓	3, 5	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.1.1.5 of the HMP	Monitoring program, Consultation Records
Heritage Management Plan	HMP-21	Heritage (Aboriginal)	If either direct or indirect harm to the site as a result of activities associated with the development is identified during monitoring, the activities resulting in the harm will cease in the vicinity of the site until appropriate mitigation measures to protect the site (such as additional fencing) can be implemented.	✓	✓	✓	✓	-	✓	✓	2, 3, 5, 6	Ongoing throughout construction, decommissioning and operation	Section 7.1.1.5 of the HMP	Monitoring program, Incident Report

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
Heritage Management Plan	HMP-22	Heritage (Aboriginal)	In the event of unexpected impact to a site, a suitably qualified archaeologist and the registered Aboriginal parties will be consulted to develop appropriate additional mitigation and management measures in relation to the identified impact. A memorandum documenting the impact and including recommendations regarding additional mitigation/management of impact will be provided to the registered Aboriginal parties and Heritage NSW.	✓	✓	✓	✓	-	✓	✓	3, 5	Ongoing throughout construction, decommissioning and operation	Section 7.1.1.5 of the HMP	Consultation Records
Heritage Management Plan	HMP-23	Heritage (Aboriginal)	In the event that an unexpected Aboriginal objects or sites or human skeletal remains may be discovered during construction works, the following procedures will be applied:	✓	✓	-	✓	-	✓	-	2, 3, 5, 6	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-23a	Heritage (Aboriginal)	The person who discovers or suspects they have discovered a potential Aboriginal object(s) during the proposed works will immediately notify the person in charge of the construction activity	✓	✓	-	✓	-	✓	-	2, 6	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-23b	Heritage (Aboriginal)	The EPC Site Manager/EPC HSE will then suspend any relevant works at the location of the discovery and within 10 m of the extent of the suspected object(s). In the case of multiple objects, the 10 m area applies from the outermost of the cluster of objects	✓	✓	-	✓	-	✓	-	2, 3	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-23c	Heritage (Aboriginal)	An area of 10 m radius is to be cordoned off by temporary fencing around the suspected Aboriginal heritage object(s)	✓	✓	-	✓	-	✓	-	2,3	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-23d	Heritage (Aboriginal)	The EPC Site Manager/EPC HSE will take photos of the suspected Aboriginal heritage object(s) and send to LSbp, who will pass it on to a suitably qualified archaeologist who will provide preliminary advice on the find. Information about the location and condition of the site will also be provided. The archaeologist will then contact the relevant Aboriginal Group to advise them of the potential find and provide a copy of the	✓	✓	-	✓	-	✓	-	2, 3, 5	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			photos and relevant information about the find.											
Heritage Management Plan	HMP-23e	Heritage (Aboriginal)	The Aboriginal heritage object or material will not be moved or disturbed until preliminary assessment has been undertaken by a cultural heritage specialist and written clearance of the site provided	✓	✓	-	✓	-	✓	-	2, 3, 5	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-23f	Heritage (Aboriginal)	Based on the results of the preliminary advice and identified significance of the suspected Aboriginal object(s), the following steps will be followed: <ul style="list-style-type: none"> Not an Aboriginal heritage item: the archaeologist will provide written clearance of the site and works are able to recommence Further confirmation required: the archaeologist and representatives of the registered Aboriginal parties will be provided with the opportunity to inspect the object(s) to confirm its significance Confirmed Aboriginal object(s): If it is an Aboriginal item and further assessment is required, notification will be made to all relevant registered Aboriginal parties and Heritage NSW to provide information about the newly identified site and determine an appropriate management strategy.	✓	✓	-	✓	-	✓	-	2, 3, 5	Ongoing throughout construction and decommissioning	Section 7.1.2.1 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-24	Heritage (Aboriginal)	In the event that suspected human skeletal remains are found during development activities, the following procedure will be followed:	✓	✓	-	✓	-	✓	-	2, 3, 5, 6	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-24a	Heritage (Aboriginal)	When suspected human skeletal remains are exposed or uncovered, all work is to cease immediately in the near vicinity of the find location	✓	✓	-	✓	-	✓	-	2, 3, 6	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-24b	Heritage (Aboriginal)	An area of 20 m radius is to be cordoned off by temporary fencing around the outer extent of the exposed suspected human skeletal remains site	✓	✓	-	✓	-	✓	-	2, 3	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
Heritage Management Plan	HMP-24c	Heritage (Aboriginal)	The EPC Site Manager / EPC HSE is to notify the New South Wales Police and the State Coroner's Office immediately	✓	✓	-	✓	-	✓	-	3	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-24d	Heritage (Aboriginal)	<p>A suitably qualified person will inspect the remains and make a determination of whether the remains are human, and if so, the likely ancestry (Aboriginal or non-Aboriginal) and the antiquity (pre-contact, historical or forensic)</p> <ul style="list-style-type: none"> ○ If the remains are forensic, the area is deemed a crime scene ○ If the remains are identified as Aboriginal, the site is to be secured and Heritage NSW and all registered Aboriginal parties are to be notified. Under Section 20 (1) of the Aboriginal & Torres Strait Islander Heritage Protection Act 1986, the Department of Agriculture, Water and Environment (DAWE) will also be notified ○ If the remains are non-Aboriginal (historical) remains, the site is to be secured and Heritage NSW is to be contacted 	✓	✓	-	✓	-	✓	-	3, 5	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-24e	Heritage (Aboriginal)	The above process functions only to appropriately identify the remains and secure the site. From this time, the management of the remains is to be determined through liaison with the appropriate stakeholders (including the NSW Police Force, forensic anthropologist, Heritage NSW and the registered Aboriginal parties).	✓	✓	-	✓	-	✓	-	3, 5	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report, Consultation Records
Heritage Management Plan	HMP-24f	Heritage (Aboriginal)	No works will be recommenced at the location of the remains until such time as the required management actions have been undertaken and written consent to recommence has been provided by the appropriate government authority (either	✓	✓	-	✓	-	✓	-	2, 3, 5	Ongoing throughout construction and decommissioning	Section 7.1.2.2 of the HMP	Unexpected Finds Protocol, Incident Report

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			NSW Police or Heritage NSW depending on the nature of the remains).											
Historic Heritage Management														
Heritage Management Plan	HMP-25	Heritage (Historic)	All personal and contractors associated with the development will be made aware the location of the Noonee Nyrang Homestead and heritage status	✓	✓	✓	✓	-	✓	✓	2, 3, 6	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.1 of the HMP	Induction sign-off sheet
Heritage Management Plan	HMP-26	Heritage (Historic)	The existing outbuildings and stone shed around the Noonee Nyrang Homestead will be maintained and not altered	✓	✓	✓	✓	-	✓	✓	2, 3	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.1 of the HMP	Compliance Records, site layout plans
Heritage Management Plan	HMP-27	Heritage (Historic)	The exclusion zone around the Noonee Nyrang Homestead and the SCS Wellington facility will be explained during the heritage inductions and toolbox talks and all contractors and personal associated with the development made aware of it.	✓	✓	✓	✓	-	✓	✓	2, 3, 6	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.1 of the HMP	Induction sign-off sheet
Heritage Management Plan	HMP-28	Heritage (Historic)	Where the potential to avoid impacts to the European survey marker tree is identified, an exclusion zone may be established around the tree and the tree fenced with a buffer of 10 m.	✓	✓	✓	✓	-	✓	✓	2, 3, 5	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.1.1 of the HMP	Compliance Records
Heritage Management Plan	HMP-29	Heritage (Historic)	The SCS Wellington facility will be avoided and all personnel and contractors associated with the development made aware of its location.	✓	✓	✓	✓	-	✓	✓	2, 3, 6	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.1.1 of the HMP	Induction sign-off sheet
Heritage Management Plan	HMP-30	Heritage (Historic)	Should the scope of the development change so that impact to the SCS Wellington facility is likely to occur, consultation will be undertaken with the Council to identify appropriate management and/or mitigation measures, if required.	✓	✓	✓	✓	-	✓	✓	2, 3, 5	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.1.1 of the HMP	Compliance Records, Consultation Records
Heritage Management Plan	HMP-31	Heritage (Historic)	In the event of unexpected historical finds, features or subsurface deposits, the following procedure will be followed:	✓	✓	✓	✓	-	✓	✓	2, 3, 5, 6	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.2.2 of the HMP	Unexpected Finds Protocol, Incident Report

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
Heritage Management Plan	HMP-31a	Heritage (Historic)	The person who discovers or suspects they have discovered a potential historical heritage item during the proposed works will immediately notify the person in charge of the activity	✓	✓	✓	✓	-	✓	✓	2, 6	Ongoing throughout construction, decommissioning and operation	Section 7.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-31b	Heritage (Historic)	Works in the immediate vicinity of the item(s) will cease and the area around the item(s) will be cordoned off with temporary fencing	✓	✓	✓	✓	-	✓	✓	2, 3	Ongoing throughout, construction, decommissioning and operation	Section 7.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-31c	Heritage (Historic)	An area of 10 m radius is to be cordoned off by temporary fencing around the suspected heritage item(s). In the case of multiple items, the 5 m area applies from the outermost of the cluster of items. The heritage item will not be moved or disturbed until preliminary assessment has been undertaken by a cultural heritage consultant	✓	✓	✓	✓	-	✓	✓	2, 3	Ongoing throughout, construction, decommissioning and operation	Section 7.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-31d	Heritage (Historic)	The EPC Site Manager/EPC HSE will then inform LSbp, who will contact a suitably qualified cultural heritage consultant to evaluate the potential historical heritage item. Information about the location and condition of the site will also be provided. An inspection of the item(s) by the heritage consultant may be required to confirm the significance of the item(s)	✓	✓	✓	✓	P	✓	✓	1, 3, 5	Ongoing throughout, construction, decommissioning and operation	Section 7.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
Heritage Management Plan	HMP-31e	Heritage (Historic)	Where the item(s) are identified as having local or higher significance, the EPC Site Manager/EPC HSE will inform LSbp, who will contact Heritage NSW to provide information about the newly identified site/material and determine an appropriate management strategy. Should it be determined that the material identified does not hold any significance, works may proceed and there are no further requirements.	✓	✓	✓	✓	✓	✓	✓	1, 2, 3, 5	Ongoing throughout, construction, decommissioning and operation	Section 7.2.2 of the HMP	Unexpected Finds Protocol, Incident Report
SSD8895 Development Consent	HMP-10	Heritage (general)	Review and update this HMP in accordance with Schedule 4, Condition 2	✓	✓	-	✓	✓	✓	✓	1, 2, 3, 5	Annually, or when deemed necessary for the period of early works and then main	Refer to Section 8.0 of the HMP	Revised version of the HMP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
												works i.e. the total construction of the development		
Heritage Management Plan	HMP-33	Heritage (general)	All site personnel including employees, subcontractors and visitors will receive Aboriginal and historical cultural heritage awareness training during site inductions and toolbox talks. The training package will be developed in consultation with the registered Aboriginal parties.	✓	✓			-	✓	✓	2, 3, 6	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.3 of the HMP	Induction sign-off sheet
Heritage Management Plan	HMP-34	Heritage (general)	Specifically, the Aboriginal and historical cultural heritage awareness training will cover: <ul style="list-style-type: none"> Roles and responsibilities of personnel regarding protection of Aboriginal and historical cultural heritage The location and types of heritage items found within the development area and surrounding areas The means of identifying heritage items Procedures to be followed in the event that unexpected finds are discovered Procedures to be followed in the event that suspected human skeletal remains are discovered.	✓	✓	✓	✓	-	✓	✓	2, 3	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.3 of the HMP	Induction sign-off sheet
Heritage Management Plan	HMP-35	Heritage (general)	Records of all personnel undertaking the heritage awareness training will be maintained, including the content, date and name of trainer(s).	✓	✓	✓	✓	-	✓	✓	2, 3	Ongoing throughout pre-construction, construction, decommissioning and operation	Section 7.3 of the HMP	Induction sign-off sheet
Emergency Plan														
SSD8895 Development Consent	EP-01a	Emergency Planning (general)	Prepare an EP in accordance with Schedule 3, Condition 29	✓	✓	✓	✓	✓	-	-	1	Prior to construction	The approved EP	The approved EP
SSD8895 Development Consent	EP-01b	Emergency Planning (general)	Implement this EP in accordance with Schedule 3, Condition 29	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction	The approved EP	The approved EP

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
SSD8895 Development Consent	EP-02	Hazard (Fire)	Implement and maintain APZs	✓	✓	✓	✓	✓	✓	✓	1,2,3	Prior to construction and ongoing as required	Bushfire mitigation measures (Appendix B.3 of the approved EP)	Weekly site environmental inspection checklists
SSD8895 Development Consent Environmental Impact Statement, Wellington North Solar Plant (NGH environmental, 2018) Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-03	Hazard (Fire)	Installation of 20,000 L fire water tank with FRNSW compatible fittings Maintain a 1,000 L mobile water cart on site during construction Install and maintain other fire safety equipment (e.g., fire extinguishers) in accordance with relevant codes and standards including <i>AS1940-2017 The storage and handling of flammable and combustible liquids</i>	-	✓	✓	✓	✓	✓	✓	6	During construction and ongoing	Development design process	Development design drawings and records Fire services maintenance records
	EP-04	Hazard (Fire)	Prepare hot work procedure and permit system which includes notifications to RFS for works that have the potential to ignite surrounding vegetation Prepare a flammable and combustible materials storage procedure Store flammable and combustible liquids in accordance with <i>AS1940-2017 The storage and handling of flammable and combustible liquids</i>	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction	Flammable and Combustible Materials Storage Procedure (Appendix B.10 of the approved EP) Hot Work Procedure (Appendix B.11 of the approved EP)	Monthly flammable and combustible materials storage inspection checklists Completed Hot Work Permits
Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-05	Hazard (Fire)	All electrical equipment used will be designed, installed, and maintained in accordance with relevant standards, guidelines, and manufacturer's instructions All electrical equipment will be subject to pre-commissioning checks and testing	-	✓	✓	-	✓	-	✓	1,2,4	Prior to and during construction and ongoing	Development design process Commissioning plans Maintenance plans	Development design drawings and records Commission checklists and measurements Maintenance system database
Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-06	Hazard (Fire)	Flammable liquids storages will be subject to a hazardous area classification in accordance with <i>AS/NZS 600790.1:2009 Explosive atmospheres – Explosive gas atmospheres</i>	✓	✓	✓	✓	✓	✓	✓	6	Prior to storage of flammable liquids on-site	Complete hazardous area classification and install electrical equipment in accordance with relevant Australian Standards	Maintain a hazardous area dossier of classification and installed electrical equipment

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
			All electrical equipment installed in the defined hazardous zone will be appropriately rated and installed for the zone rating.											
Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-07	Hazard (Vehicles/ Mobile Plant)	Prepare a Traffic Management Plan Site speed limits Mobile plant operators required to provide evidence of qualifications/tickets	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	Traffic Management Plan	Traffic Management Plan
Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-08	Hazard (Electricity)	All electrical equipment used will be designed, installed, and maintained in accordance with relevant standards, guidelines, and manufacturer's instructions All electrical equipment will be subject to pre-commissioning checks and testing Electrodes and earth stakes attached to site fence and isolation panels (e.g., fibre glass) built into fence to provide discontinuity to prevent electrification of fence (i.e., by induced voltages from overhead power lines or fallen power lines) Inductions to include instructions not to respond to an electrical fire unless appropriately trained All portable electrical equipment must be tested and tagged	✓	✓	✓	✓	✓	✓	✓	6	During construction and ongoing	Development design process Commissioning plans Maintenance plans	Development design drawings and records Commission checklists and measurements Maintenance system database
Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-09	Hazard (Chemicals)	All hazardous materials and chemicals to be stored in accordance with relevant standards, guidelines, and manufacturer's instructions	✓	✓	✓	✓	✓	✓	✓	6	During construction and ongoing	Development design process to define hazardous materials storage locations in accordance with relevant standards, guidelines, and manufacturer's instructions	Weekly site environmental inspection checklists
SSD8895 Development Consent Wellington North Solar Farm Hazard Identification	EP-10	Hazard (On-site Fire)	Prepare On-site Fire Response procedure Facilitate emergency services site familiarisation Undertake regular emergency response drills	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	On-site Fire Response Procedure (Appendix B.2 of the approved EP) Schedule annual emergency services site familiarisation	On-site Fire Response Procedure (Appendix B.2 of the approved EP) Training database

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
(Appendix A of the approved EP)			LSbp personnel to be trained in first attack fire fighting										as “planned maintenance” item in the Development maintenance system Incorporate training requirements into LSbp position descriptions Schedule training Schedule emergency drills as a “planned maintenance” item in the Development maintenance system	Maintenance system database
SSD8895 Development Consent Environmental Impact Statement, Wellington North Solar Plant (NGH environmental, 2018) Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-11	Hazard (Bushfire)	Prepare Bushfire Response Procedure Facilitate emergency services site familiarisation Undertake regular emergency response drills LSbp personnel to be trained in first attack fire fighting	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	Bushfire Response Procedure (Appendix B.3 of the approved EP) Schedule annual emergency services site familiarisation as “planned maintenance” item in the Development maintenance system Incorporate training requirements into LSbp position descriptions Schedule training Schedule emergency drills as a “planned maintenance” item in the Development maintenance system	Bushfire Response Procedure (Appendix B.3 of the approved EP) Training database Maintenance system database
SSD8895 Development Consent Environmental Impact Statement, Wellington North Solar Plant (NGH environmental, 2018) Wellington North Solar Farm Hazard	EP-12	Hazard (Flood, Severe Storm)	Prepare Flood Response Procedure Prepare Severe Storm Response Procedure Alternate site access/egress points and evacuation paths Facilitate emergency services site familiarisation	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	Flood Response Procedure (Appendix B.5 of the approved EP) Severe Storm Response Procedure (Appendix B.6 of the approved EP) Schedule annual emergency services site familiarisation	Flood Response Procedure (Appendix B.5 of the approved EP) Severe Storm Response Procedure (Appendix B.6 of the approved EP)

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
Identification (Appendix A of the approved EP)			Undertake regular emergency response drills										as “planned maintenance” item in the Development maintenance system Schedule emergency drills as a “planned maintenance” item in the Development maintenance system	Maintenance system database
SSD8895 Development Consent Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-13	Hazard (Chemicals)	Prepare Major Chemical Spill Response Procedure Facilitate emergency services site familiarisation Undertake regular emergency response drills	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	Major Chemical Spill Response Procedure (Appendix B.4 of the approved EP) Schedule annual emergency services site familiarisation as “planned maintenance” item in the Development maintenance system Schedule emergency drills as a “planned maintenance” item in the Development maintenance system	Major Chemical Spill Response Procedure (Appendix B.4 of the approved EP) Maintenance system database
	EP-14	Hazard (Malicious Attack/ Terrorism)	Prepare Bomb or Substance Threat Response Procedure Prepare Cyberattack Response Procedure Facilitate emergency services site familiarisation Undertake regular emergency response drills	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	Bomb or Substance Threat Response Procedure (Appendix B.6 of the approved EP) Cyberattack Response Procedure (Appendix B.9 of the approved EP) Schedule annual emergency services site familiarisation as “planned maintenance” item in the Development maintenance system Schedule emergency drills as a “planned maintenance” item in the Development maintenance system	Bomb or Substance Threat Response Procedure (Appendix B.6 of the approved EP) Cyberattack Response Procedure (Appendix B.9 of the approved EP) Maintenance system database

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
SSD8895 Development Consent Wellington North Solar Farm Hazard Identification (Appendix A of the approved EP)	EP-15	Hazard (Emergency - general)	Prepare Emergency Evacuation Procedure Prepare Significant Personal Injury or Medical Emergency Response Procedure Facilitate emergency services site familiarisation Undertake regular emergency response drills	✓	✓	✓	✓	✓	✓	✓	6	Prior to construction and ongoing	Emergency Evacuation Procedure (Appendix B.1 of the approved EP) Significant Personal Injury or Medical Emergency Response Procedure (Appendix B.7 of the approved EP) Schedule annual emergency services site familiarisation as “planned maintenance” item in the Development maintenance system Schedule emergency drills as a “planned maintenance” item in the Development maintenance system	Emergency Evacuation Procedure (Appendix B.1 of the approved EP) Significant Personal Injury or Medical Emergency Response Procedure (Appendix B.7 of the approved EP) Maintenance system database
Accommodation and Employment														
SSD8895 Development Consent	AES-01a	Accommodation Strategy	Prepare an AES in accordance with Schedule 3, Condition 31	✓	✓	✓	✓	✓	-	-	1	Prior to construction	The approved AES	The approved AES
SSD8895 Development Consent	AES-01b	Accommodation Strategy	Implement the AES in accordance with Schedule 3, Condition 31	✓	✓	✓	✓	-	✓	✓	All	Prior to construction	The approved AES	The approved AES
SSD8895 Development Consent	AES-02	Housing Availability	Where feasible, headlease proximal rental properties in Dubbo and Orange on year-long rental contracts to cover peak employment periods from November 2022 to November 2023 and secure rental properties.	✓	✓	-	-	-	✓	-	2 or 3	Headlease accommodation in preparation for main works construction. Once-off.	Headlease up to five houses in Dubbo and encourage house sharing for workers without dependents or partners. Establish a monthly review process to monitor worker accommodation requirements throughout construction.	Records of head leasing arrangements

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
													This measure aligns with Objective 1 and 2 of Section 5.3 of the AES.	
SSD8895 Development Consent	AES-03	Housing availability	<p>Prioritise booking short-term accommodation in Wellington and liaise with accommodation providers to manage peak accommodation timing.</p> <p>Collaborate with Dubbo Regional Council via their monthly accommodation meeting with providers.</p>	-	✓	-	-	-	✓	-	2 or 3	Monthly review meetings with accommodation providers to manage access to housing throughout construction.	<p>Book short-term accommodation through priority arrangements with accommodation providers in Dubbo and Wellington (Tier One) and Orange and Mudgee (Tier Two).</p> <p>Establish a monthly review process to monitor worker accommodation requirements throughout construction.</p> <p>This measure aligns with Objective 1 and 2 of Section 5.3 of the AES.</p>	Monthly review documentation
SSD8895 Development Consent	AES-04	Housing availability and traffic management	Manage internal human resources and hiring processes to encourage employees to share accommodation and car-pool for short-term contracts	✓	✓	-	-	-	✓	-	2 or 3	Internal monthly review of contracts, housing needs and housing availability.	<p>Establish and maintain a register of forecasted worker accommodation requirements and accommodation options to prioritise accommodation sharing or clustering, especially in Tier One locations.</p> <p>This measure aligns with Objective 1 of Section 5.3 of the AES.</p>	Register of worker and accommodation forecasts and location of accommodation for workers.
SSD8895 Development Consent	AES-05	Housing availability, local procurement and local employment	Prioritise and select sub-contractors that can demonstrate a high proportion of workforce living in the Dubbo Regional LGA or greater Orana and Central West Region	✓	✓	-	✓	-	✓	✓	1, 2	Establish sub-contractor selection criteria from project inception.	Embed selection criteria with a weighting of at least 10% to prioritise sub-contractors that employ workers from Dubbo Regional LGA or from the	Maintain a register of employees and sub-contractors to report on 1) proportion of jobs filled by residents of Dubbo Regional LGA and the

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
													Orana and Central West Region. Embed selection criteria with a weighting of at least 20% to prioritise sub-contractors with businesses registered in the Central West and Orana Region. This measure aligns with Objective 3 and 4 of Section 5.3 of the AES.	Central West and Orana Region and 2) proportion of sub-contractors appointed with businesses registered in the Dubbo Regional LGA and Central West and Orana Region.
SSD8895 Development Consent	AES-06	Housing availability and traffic management	Where booking accommodation from larger accommodation suppliers in Dubbo, Wellington and Orange, manage scheduling to allow for shuttle buses to site.	✓	✓	-	-	-	✓	-	2 or 3	Monthly review of worker accommodation requirements and shift timing.	Establish and maintain a register of forecasted worker accommodation requirements and accommodation options to prioritise accommodation sharing or clustering. Hire shuttle buses from local providers, such as the WLALC, to transport workers from accommodation to site. This measure aligns with Objective 1 of Section 5.3 of the AES.	Register of worker and accommodation forecasts and location of accommodation for workers.
SSD8895 Development Consent	AES-07	Housing availability	Establish and maintain a register of local property owners who have expressed interest in offering dwellings for rent.	✓	✓	-	-	-	✓	-	3	Monthly review of local property availability during main works construction.	Establish a register of property owners with rooms or entire rooms to rent and maintain records of number of rooms and rates of rental costs. This measure aligns with Objective 1 and 2 of Section 5.3 of the AES.	Maintained register of housing arrangements

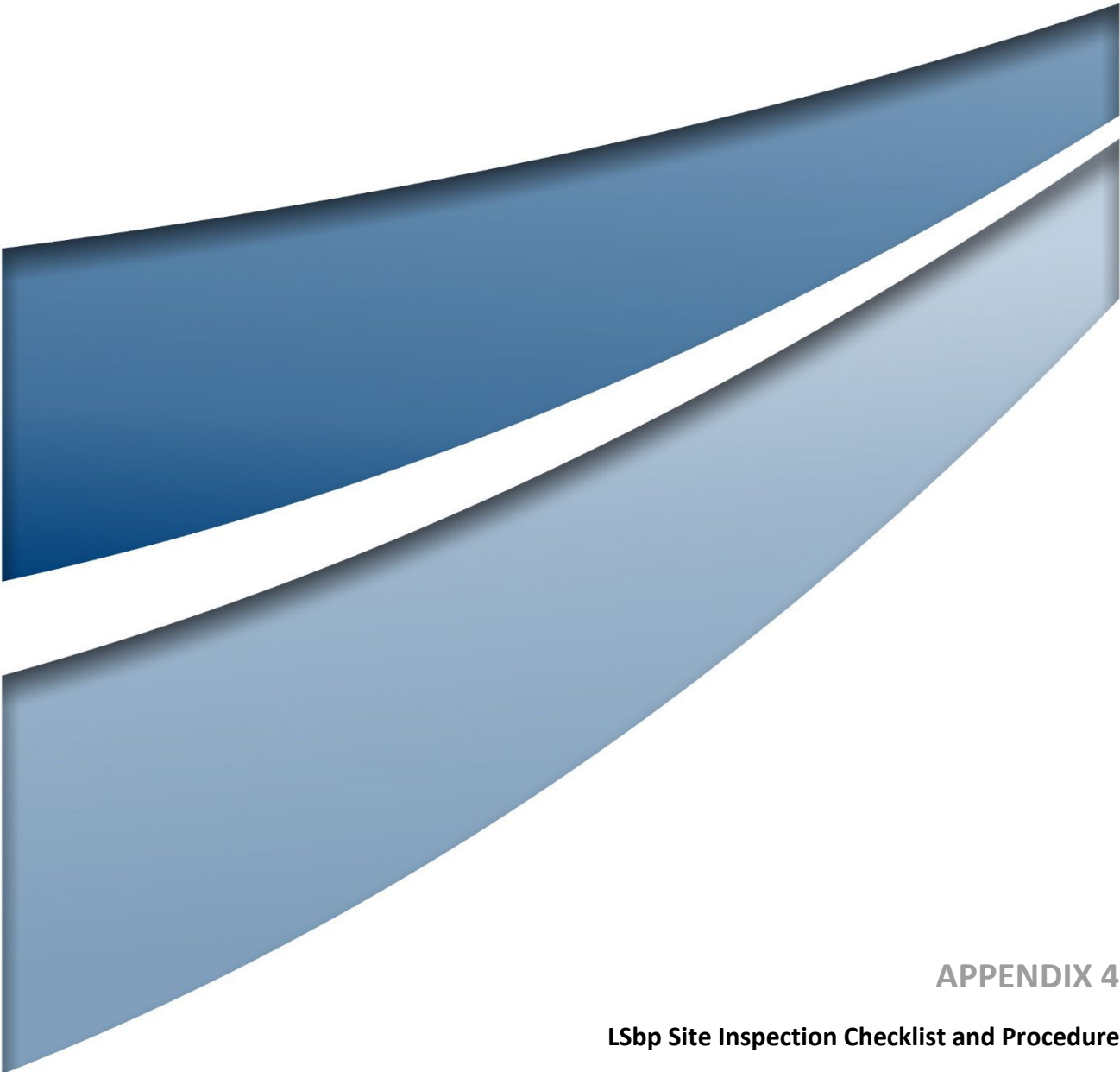
Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
SSD8895 Development Consent	AES-08	Housing availability	Contribute to temporary worker's housing supply in Wellington.	✓	✓	-	-	✓	✓	-	1, 2, 3	Prior to project construction commencement.	Dubbo Regional Council and RDA have expressed a desire to work with LSbp to identify short- and long-term housing options in Wellington. Work with Dubbo Regional Council and RDA Orana to investigate and/or co-deliver workforce camps near Wellington or Dubbo. This may take the form of contributions to infrastructure, housing, or community housing grants. This measure aligns with Objective 3 of Section 5.3 of the AES.	Direct engagement with Dubbo Regional Council to plan and contribute to access to affordable housing in Wellington.
SSD8895 Development Consent	AES-09	Housing availability	Contribute to delivery of affordable housing in Wellington or Dubbo	✓	✓	-	-	✓	✓	-	1, 3	Prior to project construction commencement	Investigate provision of housing support through LSbp's Community Benefit Fund This measure aligns with Objective 3 of Section 5.3 of the AES.	Advertisement of the Community Benefit Fund to local community organisations, including eligibility for community groups that may facilitate support/contribution to address affordable housing in Wellington or Dubbo
SSD8895 Development Consent	AES-10a	Employment Strategy	Prepare an AES in accordance with Schedule 3, Condition 31	✓	✓	✓	✓	✓	-	-	1	Prior to construction	The approved AES	The approved AES
SSD8895 Development Consent	AES-10b	Employment Strategy	Implement the AES in accordance with Schedule 3, Condition 31	✓	✓	✓	✓	-	✓	✓	2	Ongoing	The approved AES	The approved AES
SSD8895 Development Consent	AES-11	Local employment	Attend and host local forums and events to maintain relationships with local businesses and groups. These may include:	✓	✓	-	-	✓	✓	-	1,2, 3	As necessary	Attend or host local employment and	Documentation of events and register of Expressions of

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
		and procurement	<ul style="list-style-type: none"> The Clontarf Foundation's annual employment forum in Dubbo. This forum allows company representatives to meet with Clontarf boys and discuss work opportunities The Wellington High School awards night <p>Events hosted or co-hosted by RDA Orana and Dubbo Regional Council run as 'meet the contractor' events</p>										<p>procurement information events</p> <p>This measure aligns with Objective 1, 3, 4 and 5 of Section 6.4 of the AES.</p>	Interest collected at these events.
SSD8895 Development Consent	AES-12	Local employment and procurement	Develop a LSbp-sponsored apprenticeship program that would enable locals to benefit from energy employment opportunities / sets out a school-based education into employment pathways	✓	✓	-	-	✓	✓	-	1, 3	<p>Initial meetings to develop and implement scholarship program, followed by quarterly review of program outcomes and management of hiring of apprentices from the program.</p>	<p>Establish and maintain an LSbp-sponsored apprenticeship program and manage pathways into work experience and employment at the Project.</p> <p>Deliver a program to include two supported apprentices, funding their wages and TAFE fees for the duration of their apprenticeship, for up to four years.</p> <p>This measure aligns with Objective 4 and 5 of Section 6.4 of the AES.</p>	Documentation of apprenticeship program outcomes.
SSD8895 Development Consent	AES-14	Local employment and skills development	Embed transparent selection criteria for sub-contractors that prioritizes organisations based in the Dubbo Regional LGA or Orange LGA. Target at least 60% of sub-contractors from these regions across the development.	✓	✓	✓	-	-	✓	✓	2, 3	<p>Establish sub-contractor selection criteria from project inception.</p> <p>Monthly review of workforce requirements and sub-contract requirements against forecast need and targets outlined in this AES.</p>	<p>Embed selection criteria with a weighting of at least 10% to prioritise sub-contractors that employ workers from Dubbo Regional LGA or from the Orana and Central West Region.</p> <p>Embed selection criteria with a weighting of at least 20% to prioritise sub-contractors with businesses</p>	Maintain a register of employees and sub-contractors to report on 1) proportion of jobs filled by residents of Dubbo Regional LGA and the Central West and Orana Region and 2) proportion of sub-contractors appointed with businesses registered in the Dubbo

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (Lsbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible 1,2,3,4,5,6,7			
													registered in the Central West and Orana Region This measure aligns with Objective 1 and 3 of Section 6.4 of the AES.	Regional LGA and Central West and Orana Region and 3) proportion of subcontractors demonstrating Indigenous ownership or employment.
SSD8895 Development Consent	AES-15	Local employment and procurement	Partner with Dubbo Regional Council or NSW Indigenous Chamber of Commerce to access specialized procurement sourcing panels with Certified and Registered Indigenous businesses. Establish processes and selection criteria that prioritise Indigenous employment and procurement.	✓	✓	✓	-	-	✓	-	2, 3	Monthly review of workforce requirements and sub-contract requirements against forecast need and targets outlined in this AES.	Establish and maintain a register of local Certified and Registered Indigenous businesses. Embed selection criteria to prioritise sub-contractors that are Certified and Registered Indigenous businesses, or are owned, managed or staffed by Indigenous people. This measure aligns with Objective 1, 3 and 5 of Section 6.4 of the AES.	Maintain a register of employees and sub-contractors to report on 1) proportion of jobs filled by residents of Dubbo Regional LGA and the Central West and Orana Region and 2) proportion of sub-contractors appointed with businesses registered in the Dubbo Regional LGA and Central West and Orana Region and 3) proportion of subcontractors demonstrating Indigenous ownership or employment.
SSD8895 Development Consent	AES-16	Local employment and procurement	Partner with local organisations to support regional modelling of workforce needs and communicate employment and procurement opportunities emerging from the development.	✓	✓	-	-	-	✓	-	2, 3	Monthly review of workforce requirements and sub-contract requirements against forecast need and targets outlined in this AES.	Partner with RDA Orana to provide data on required workforce skills and roles and timing to support RDA Orana in their overarching plan for skills generation in the region.	Documentation of workforce modelling supplied to RDA Orana. Documentation of engagement with Dubbo Region Skills and involvement in events or online communication about

Source	ID	Aspect	Mitigation / Management Measure	Development Phase				Responsible Party				Timing/Frequency	Implementation Action	Compliance Record
				Early Works Construction	Main Works Construction	Operations and Maintenance	Decommissioning	Principal (LSbp)	EPC Contractor	Operations and Maintenance Contractor	Personnel Responsible ^{1,2,3,4,5,6,7}			
													Partner with Dubbo Region Skills to communicate employment and procurement opportunities to local businesses and workers. This measure aligns with Objective 4 of Section 6.4 of the AES.	local employment and procurement opportunities (related to AES-12).
SSD8895 Development Consent	AES-17	Local employment and procurement	Establish an Expression of Interest register for local businesses as well as those looking for individual employment	✓	✓	-	-	-	✓	-	2, 3	Establish Expression of Interest (EOI) register before development commencement. Review responses throughout construction.	Establish, review and maintain an Expression of Interest register This measure aligns with Objective 1 and 3 of Section 6.4 of the AES.	Documentation of EOIs and proportion of EOIs resulting in employment or procurement opportunities.
SSD8895 Development Consent	AES-18	Local employment and procurement and community engagement	Ensure that all direct recruitment activities, procurement opportunities and forecast accommodation, workforce and service needs targeting Aboriginal and local community members are visible through multiple channels. This may include: <ul style="list-style-type: none"> online and print media and local news outlets Partnering with Dubbo Regional Council, RDA Orana, Wellington LALC, Aboriginal employment services and other community groups to access their communication channels. Local social media forums Notifications on local notice boards or advertisement opportunities, such as at community health centres, shopping centres, townhall and sport facilities	✓	✓	✓	✓	-	✓	✓	1,2, 3	As needed	Establish and maintain a register of key communication channels, key contacts and mechanisms for engaging with relevant stakeholders. Ensure consistent use of these channels throughout construction and operation of the project. This measure aligns with Objective 1-6 of Section 6.4 of the AES.	Register of communication channels and record of timing and frequency of communication through each channel.

¹ LSbp Development Principal ² Engineer, Procurement & Construction (EPC) Site Manager ³ EPC Health, Safety and Environment (HSE) Coordinator ⁴ Contractor Ecologist ⁵ Heritage Specialist ⁶ All Employees and Contractors ⁷ Operations and Maintenance (O&M), Site Manager



APPENDIX 4

LSbp Site Inspection Checklist and Procedure

Environmental Site Inspection: Checklist and Procedure

This environmental site inspection checklist is to be utilised to identify, review and correct any conditions or hazards that may endanger or harm the environment. It is designed for general use and may not be exhaustive. Modifications and additions will be necessary to address specific environmental risks/actions

Project Site:					
Project Phase/Stage:					
Inspection Date:					
Inspection Time:					
Inspected by:					
Rain Conditions (tick)	Sunny <input type="checkbox"/>	Partial cloud <input type="checkbox"/>	Dense cloud <input type="checkbox"/>	Rain <input type="checkbox"/>	Heavy Rain <input type="checkbox"/>
Wind Conditions (tick)	Calm <input type="checkbox"/>	Slight breeze <input type="checkbox"/>	Strong breeze <input type="checkbox"/>	Windy <input type="checkbox"/>	Strong Winds <input type="checkbox"/>
General comments:					

Issues identified, and actions taken (provide a short summary from this checklist)	
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Environmental Checklist

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
General						
1.1	The site is generally in a tidy condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.2	All materials and equipment are contained within the project site boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.3	All works are limited to the project site boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
1.4	All personnel are inducted to site (i.e. Hard hat stickers, scan cards)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.5	Daily toolbox talks are being conducted and signed by all personnel involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.6	Key environmental matters and risks were discussed during these toolbox talks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.7	Site boundary fencing / controlled point of entry is in place and in an acceptable condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.8	Equipment observed to be well maintained / operating normally, no unusual noise or smoke warranting maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.9	Landscape vegetation (e.g. for visual screening) is maintained and in an acceptable condition (where required)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.10	An electronic/hard copy of the current project-specific Construction Environmental Management Plan (CEMP) is available on site and accessible for relevant personnel. Relevant sub-plans are also available.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.11	Electronic/hard copies of other current project-specific plans e.g. CEMP sub-plans are available on site and accessible for relevant personnel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Transport and Parking						
2.1	Drivers are inducted to site and have been trained in the site 'Driver Code of Conduct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.2	Designated haulage routes were used for all heavy vehicles accessing the site e.g. as per traffic management plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.3	Approved access point(s) was/were used for all light and heavy vehicles accessing the site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.4	Deliveries of material and/or equipment to site were suitable covered and adequately secured	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
2.5	Rumble grids are installed at the site access point(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.6	Vehicles and equipment are cleaned (e.g. at rumble grid and/or at wash-down area, as needed) before leaving the site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.7	Vehicles carrying dusty loads are suitably covered and/or watered prior to leaving site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.8	There is no evidence of mud being tracked onto the roads outside of the project site boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.9	Deliveries of material and/or equipment are scheduled to minimise heavy vehicle convoys and/or cumulative impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.10	Designated parking areas were used for all vehicles parked on site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.11	The shuttle bus service is used and effectively transporting personnel to site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Air Quality and Dust						
3.1	Dust suppression e.g. water cart, stockpile covers, is being used to minimise dust emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.2	Dust suppression is being used for dusty roads and/or internal access tracks e.g. they are being watered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.3	Cement debagging process undertaken in designated areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.4	No visible dust leaving the project site boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Soil and Water Management						
4.1	All clean water is being diverted away from disturbed areas, and sediment controls (e.g. diversions) are stable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.2	Erosion and sediment controls (ESC) are installed in accordance with the ESC plan and/or relevant standard drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
4.3	Disturbed areas where no works are undertaken (including areas where works will not be undertaken for a period of more than 20 working days) are stabilised i.e. with vegetation, rolled erosion control products or spray-on soil stabilisers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.4	Areas of localised soil erosion have been identified and appropriate preventative measures implemented	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.5	Slope lengths are maintained at a maximum of 80 m (or less for steep slopes and where specified by an ESC plan) where possible using slope breaks to prevent concentration of flows and minimise erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.6	Check dams are used within diversion drains where required to reduce flows and minimise erosion scour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7	Stockpiles are sited in low-hazard areas clear of watercourses and flood prone lands (at least 2 m and preferably 5 m)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.8	Cut-off drains on the upslope side and sediment fencing on the downslope side are in place for all stockpile areas within the site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.9	Topsoil stockpiles are less than the approved height (typically 2 m where adequate space is available)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.10	Stabilised accesses (e.g. shakers, rubble pads) are maintained in good condition (e.g. no excess sediment build up) to prevent overflow and tracking of sediment/mud and there is no evidence of sediment/mud being tracked onto off-site roads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.11	All disturbed areas drain to an appropriate sediment control and sediment controls are constructed as close to the potential source of sediment as possible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
4.12	Accumulated sediment traps are below 30% of sediment storage capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.13	Any sediment basins have been dewatered to restore their design capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.14	All off-site discharges are undertaken in accordance with dewatering permits and relevant consent/environmental license conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Waste Management and Storage of Hazardous Materials						
5.1	Separate labelled containers / areas are provided for facilitating recycling / waste segregation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.2	Construction / recyclable wastes / general refuse removed off site regularly, and by licensed collectors where necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.3	Contaminated soil/asbestos storage areas are fenced off and signposted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.4	Concrete washouts are properly set-up and signposted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.5	Fuel/chemicals properly labelled and stored correctly e.g. bunded areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.6	Hazardous substances and/or dangerous goods have an MSDS available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.7	Material specific controls and emergency response equipment is in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.8	No oil leaks or spills visible on site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.9	Refueling occurs in designated areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.10	Spill kits available in designated areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Biodiversity Management (Flora and Fauna)						
6.1	Vegetation clearance boundaries, exclusion fencing and no-go ones are established and well defined	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.2	No trimming or clearing of sensitive/native vegetation has	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
	occurred without appropriate approvals and/or a suitably qualified person i.e. trained ecologist being present					
6.3	No stockpiling or storage within dripline of any mature trees.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.4	Animal handling procedures (to be implemented by a specialist/ecologist) are well understood by relevant personnel and in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.5	The procedure and protocol for unexpected threatened species finds (e.g. as per biodiversity management plan) is well understood by key personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.6	Suitable measures are in place to prevent contaminants affecting surrounding waterways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.7	No visible weed infestation, and management practices are in place to maintain this	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.8	A trained ecologist is engaged for the project, available (as needed) and on site for relevant biodiversity management aspects e.g. pre-clearance surveys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Heritage Management (Historic and Aboriginal)						
7.1	Exclusion fencing around heritage protected areas is intact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.2	Heritage protected areas are adequately signposted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.3	The procedure and protocol for any unexpected finds (e.g. as per heritage management plan) is well understood by key personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.4	A heritage specialist is engaged for the project, available (as needed) and on site for relevant heritage management aspects e.g. objects or materials to be assessed, moved, or disturbed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
7.5	Records of written clearances are received and retained to file	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Noise Management						
8.1	Activities were reviewed and any unusually noisy works identified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.2	Activities required outside normal construction hours identified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.3	Noise management and/or mitigation measures are in place for noisy and/or out-of-hours works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.4	Notifications have been provided to nearby dwellings (or other sensitive receptors) for out-of-hours works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.5	Noise at nearby dwellings (or other sensitive receptors) has been checked and was inaudible, or not offensive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Complaints						
9.1	The complaints hotline was active and monitored	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.2	Any complaints were received and registered using the appropriate system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.3	Any complaints were responded to using the appropriate system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Emergencies and Fire						
10.1	Emergency contact list is available on site and accessible by relevant staff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.2	Emergency Services Information package is available at locations specified in site emergency plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.3	Fire extinguishers and/or fire-fighting facilities properly maintained and not expired	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.4	Emergency egress / escape points not blocked or obstructed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.5	Water tank is in operating condition, fire hose connection (e.g. 65mm Storz connector) is intact and not blocked or obstructed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

ID	Task/Condition	Inspection Result			Risk Rating (see EP-001) (required if responding NO)	Action/s (see EP-002) / Responsibility (Initials) (required if responding NO)
		Yes	No	n/a		
10.6	Hot work restrictions complied with e.g. fire ban periods checked and any permits or exemptions approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.7	Hot work permits issued	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.8	Asset Protection Zones (APZ) are implemented and maintained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Checklist Approvals

Approved by EPC Representative / Checklist Author	
Date	
Time	
Signature	
Approved by EPC Health, Safety and Environment (HSE) Coordinator	
Date	
Time	
Signature	
Approved by EPC Site Manager (as required)	
Date	
Time	
Signature	

Environmental Procedures (EP)

Risk Assessment (EP-001)

When the inspection of a task/condition identifies an issue, it is important to understand risk so that appropriate actions can be taken. A risk assessment is required if responding “No” to any task/condition (i.e. an issue) in the above environmental checklist.

The purpose of these risk assessments is to:

- identify activities, events, or outcomes with the potential to adversely affect the natural/built environments and human health
- identify the likelihood and consequences of potential environmental or health impacts and assign a risk rating
- consider whether the risk can be appropriately managed using environmental protection measures
- evaluate the residual risk of that activity, with implementation of the proposed environmental protection measures.

A simplified risk assessment methodology is outlined in the tables below and should be adopted here unless a more detailed methodology is established e.g. in accordance with AS/NZS ISO 31000:2009 Risk Management – Principles and Guidelines (Standards Australia 2009). Regardless, a risk rating is required if responding “No” to any tasks/conditions in the above environmental checklist.

Categorisation of Likelihood of Impact

Likelihood	Measure
Highly likely	Is expected to occur in most circumstances
Likely	Will probably occur during the life of the development (or a specific phase of the development)
Possible	Might occur during the life of the development (or a specific phase of the development)
Unlikely	Could occur, but considered unlikely or doubtful
Rare	May occur in exceptional circumstances

Categorisation of Consequences of Impact

Likelihood	Measure
Minor	Minor incident of environmental damage that can be reversed
Moderate	Isolated but substantial instances of environmental damage that could be reversed with intensive efforts
High	Substantial instances of environmental damage that could be reversed with intensive efforts
Major	Major loss of environmental amenity and real danger of continuing impacts
Critical	Widespread loss of environmental amenity and irrecoverable environmental damage

Risk Rating

Likelihood	Consequence				
	Minor	Moderate	High	Major	Severe
Highly likely	Medium	High	High	Severe	Severe
Likely	Low	Medium	High	High	Severe
Possible	Low	Medium	Medium	High	Severe
Unlikely	Low	Low	Medium	High	High
Rare	Low	Low	Low	Medium	High

Actions (Mitigation and/or Management Measures) (EP-002)

For any task/condition where a) an issue is identified, and b) a risk of “Medium” or higher is rated, actions must be taken to address it. These actions come in the form of “mitigation and/or management measures” that are designed to avoid, control and/or minimise the issue and associated risk identified, as far as reasonably practicable.

The following procedure (EP-002) should be utilised to:

- establish a comprehensive list of potential mitigation and/or management measures
- evaluate the potential effectiveness of these measures
- select appropriate measure/s that are to be implemented
- implement the selected measures
- gauge the performance of the mitigation and/or management measures that were implemented
- improve the measures (if needed) until an acceptable outcome is achieved

This procedure is only designed to support the environmental checklist. It is for general use and is not exhaustive. Modifications and additions will be necessary to address specific tasks/conditions, and other aspects of the measures identified.

This procedure should be combined with any targeted requirements documented in stand-alone management plans e.g. environmental management strategies, engagement strategies, biodiversity management plans, heritage management plans, noise management plans etc.

All requirements specified in project-specific management plans supersede any outcomes of the procedure documented below.

This procedure does not suggest that actions are not required for “Low” risk issues. Low risk issues should be monitored closely and actions should be implemented during the inspection (or after) if they are known, and reasonably practicable. Risks of “Medium” or higher should however be prioritised.

This procedure does not prevent the immediate cessation of works if necessary to prevent direct or indirect harm to personnel, contractors, or members of the public, and/or the environment. Furthermore, this procedure does not prevent effective actions being implemented during the inspection if they are known, and reasonably practicable.

Where a risk of “Medium” or higher is rated, actions should be taken as per this procedure (EP-002):

- **Identify:** Evaluate the issue and risks identified and establish a list of potential mitigation and/or management measures. This initial list should be comprehensive and consider all options to avoid, control and/or minimise potential harm to people or the environment. It should not be constrained by consideration of feasible and reasonable. It should be:
 - **Proportionate:** the mitigation and/or management measures should be in proportion to risks identified. The higher the risks, the greater the measures that will be required; conversely, lesser measures will be a proportionate response to risks that are identified as being of low because of their limited consequence and likelihood
 - **Adequate:** for each issue, the measures should have the potential to avoid, control and/or minimise the risk. The residual level of risk, if any, should be of an acceptable value assuming the measures are successfully implemented. The best (more than adequate) measure would mitigate the risk entirely such that the issue is negated completely
 - **Specialised:** for some issues proportionate and adequate measures can be identified without specialist involvement. In some circumstances however, specialist advice may be required. Seek this advice where the issues and risks are beyond the knowledge of the team directly addressing the task/condition observed. Furthermore, some measures will require the involvement of specialists to implement them properly or in accordance with relevant legislation, regulation, policy, or guidelines.
- **Qualify:** Review the comprehensive list to confirm what measures are reasonably practicable to implement. This should consider:
 - **Feasible:** a measure that can be engineered and is practical to build and/or implement, given project constraints such as safety, maintenance, and reliability requirements. It may also include options such as amending operational practices

- **Reasonable:** from those measures that are feasible, determining “reasonable” involves judging whether the overall benefits outweigh the overall adverse community, economic, and environmental effects, including the cost of the measure. When making such a judgement, as a minimum, consider a) the change in environment, b) the scale of the impact, c) the anticipated benefit of the measure, d) the total cost of the measure compared with total project costs (considering capital and maintenance costs), e) ongoing operational and maintenance cost borne by the community (if any), and f) community views
- **Community views:** in some cases, engagement with affected stakeholders may be required e.g. when deciding about aesthetic and other impacts of mitigation measures. It may also be necessary to determine the views of all affected stakeholders, not just those making representations, through early community consultation and to consider measures that have majority support from the affected community.
- **Acknowledge:** with “identify” and “qualify” considered, mitigation and/or management measures that are reasonably practicable to implement have been identified and can be implemented at site. In practice, the detail of such measures will largely depend on project-specific factors. These are however the measures that will avoid, control, and/or minimise, as far as reasonably practicable, the impacts of the project. They should provide clarity and confidence for the proponent, local community, regulators, and the ultimate operator that the measures can be effective, achieve an acceptable environmental outcome / residual issue. These measures should be acknowledged by senior site environmental and project management staff to support implementation.
- **Successfully Implement:** with the measures selected, they must now be “successfully” implemented. Some measures are simple and easily implemented, other measures are complex and will require substantial planning. Regardless, the successful implementation of the selected measures is required to achieve the anticipated “acceptable” environmental or community outcome. Where measures aren’t successfully implemented, the anticipated “acceptable” environmental or community outcome may not be achieved and improvements are required. Consider however that some measures may need to be optimized during implementation to achieve the most effective environmental or community outcome, despite the anticipated outcome not being achieved. Regardless an effective and acceptable outcome is always required. Compliance with relevant legislation, regulation, policy, or guidelines is always required.
- **Check and Improve:** it is critical that the performance of the measure/s implemented be checked and assessed once successfully implemented. Performance may vary to what was anticipated and change over time such that improvements may be required. Where measures are deemed to be achieving their anticipated environmental or community outcome, no further action is required. Where measures are not achieving their anticipated environmental or community outcome, further action/s is required. In this circumstances the existing measure may need to be modified, or new measures may need to be identified, qualified, confirmed and successfully implemented until the anticipated “acceptable” environmental outcome is achieved.

Responsibilities (EP-003)

The responsibilities (and lines of communication) under this environmental checklist, EP-001 and EP-002 are assigned as follows:

- It is the responsibility of the:
 - EPC representative undertaking the site inspection (“checklist author”) to draft the environmental checklist
 - checklist author to assign “draft” risks in accordance with EP-001
 - checklist author to assign “draft” actions in accordance with EP-002
- The checklist author must complete the checklist, including draft risks (EP-001) and actions (EP002) within two (2) hours of the inspection being completed
- On completion of the checklist, the checklist author must immediately notify the EPC Health, Safety and Environment (HSE) Coordinator, of any issues, draft risks (EP-001) and draft actions (EP002)
- Once notified, the EPC HSE Coordinator should review the draft issues, risks and actions identified in the checklist. Draft issues, risks and actions should then be made “final” in consultation with the checklist author. If the EPC HSE Coordinator completes the checklist (recommended) this step is not applicable and the communications/steps defined below should proceed
- It is the responsibility of the EPC HSE Coordinator to communicate the final issues, risks, and actions to the EPC Site Manager

- It is the responsibility of the EPC Site Manager to coordinate the EPC incident response (i.e. carry out the agreed actions), including ensuring incident investigations are undertaken and corrective actions carried out
- Once implemented, it is the responsibility of the EPC HSE Coordinator to gauge the performance of the actions taken
- Actions should be improved where they are deemed insufficient (to mitigate and/or manage the identified issue/risks), until which point, they are deemed to be effective. The continued improvement of actions (until effective) is the responsibility of the EPC HSE Coordinator and EPC Site Manager
- It is the responsibility of the EPC HSE Coordinator to clearly communicate the successful/effective actions (as implemented) to the EPC Site Manager so that these lessons can be incorporated into other related activities

Records (EP-004)

Records of this completed environmental checklist and all relevant documentation prepared in support of EP-001, EP-002 and EP-003 should be saved securely and retained on site for the duration of the project. Records should be made available for auditing purposes and provided to the LSbp Project Team if requested.

The LSbp Project Team will comprise of (as minimum) the comprise the following personnel (as a minimum): the LSbp Project Manager, LSbp Site Manager and LSbp HS&E Manager.

At the completion of the project all records should be returned to the LSbp Project Team.

