

## Appendix C Consolidated mitigation measures table

Changes since the exhibition of the EIS are shown in either ~~striketrough~~ (for deletions) or **underline and bold** (for additions). Important changes are explained in footnotes.

ID	Mitigation measures	Project stage
<b>Noise and Vibration</b>		
<b>NV1</b>	<ul style="list-style-type: none"> <li>• Project Planning:               <ul style="list-style-type: none"> <li>○ Less noise and vibration intensive construction techniques for rock breaking and concrete sawing will be used.</li> <li>○ Works will be completed during standard daytime construction hours detailed in Section 3.2.3 of the EIS.</li> <li>○ Truck routes to site will be in accordance with the approved Construction Traffic Management Plan (CTMP).</li> </ul> </li> </ul>	Construction
<b>NV2</b>	<ul style="list-style-type: none"> <li>• Scheduling               <ul style="list-style-type: none"> <li>○ High-noise or vibration generating works will be carried out in continuous blocks no longer than three hours in length, with a minimum respite period of one hour between each block. ‘Continuous’ includes any period during which there is less than a one hour respite between ceasing and recommencing these works.</li> <li>○ Notification detailing work activities, dates and hours, impacts and mitigation measures, indication of work schedule, any operational noise benefits from the works (where applicable) and contact telephone numbers will be undertaken in accordance with the CCS.</li> </ul> </li> </ul>	Pre construction, Construction
<b>NV3</b>	<ul style="list-style-type: none"> <li>• Site Layout</li> </ul>	Construction

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	<ul style="list-style-type: none"> <li>○ Where practicable, work compounds, parking areas, and equipment and material stockpiles will be positioned away from noise-sensitive locations and take advantage of existing screening from local topography.</li> <li>○ Equipment that is noisy will be started away from sensitive receivers</li> </ul>	
NV4	<ul style="list-style-type: none"> <li>● Training               <ul style="list-style-type: none"> <li>○ Training will be provided to all personnel on noise and vibration requirements for the project. Inductions and toolbox talks to be used to inform personnel of the location and sensitivity of surrounding receivers.</li> </ul> </li> </ul>	Pre-construction
NV5	<ul style="list-style-type: none"> <li>● Plant and Equipment Source Mitigation               <ul style="list-style-type: none"> <li>○ All construction plant and equipment used on Site must be, in addition to other requirements:                   <ul style="list-style-type: none"> <li>▪ regularly inspected and maintained in an efficient condition;</li> <li>▪ operated in a proper and efficient manner.</li> </ul> </li> <li>○ Where practicable, tonal reversing alarms (beepers) will be replaced with non-tonal alarms (squawkers) on all equipment in use (subject to occupational health and safety requirements).</li> <li>○ Noisy equipment will be sited behind structures that act as barriers, or at the greatest distance from the noise-sensitive area; or orienting the equipment so that noise emissions are directed away from any sensitive areas, to achieve the maximum attenuation of noise.</li> <li>○ Noise generating equipment will be regularly checked and effectively maintained, including checking of hatches/enclosures regularly to ensure that seals are in good condition and doors close properly against seals.</li> <li>○ Dropping materials from a height will be avoided.</li> <li>○ Loading and unloading will be carried out away from noise sensitive areas, where practicable.</li> <li>○ Trucks will not queue outside residential properties. Truck drivers will avoid compression braking as far as practicable.</li> </ul> </li> </ul>	Pre-construction, Construction

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	<ul style="list-style-type: none"> <li>○ Truck movements will be kept to a minimum, ie trucks are fully loaded on each trip.</li> </ul>	
NV6	<ul style="list-style-type: none"> <li>● Community consultation               <ul style="list-style-type: none"> <li>○ Notifications will be provided to the affected community where high impacts are anticipated or where out of hours works are required. Notification will be a minimum of 24 hours.</li> <li>○ Where complaints are received, work practices will be reviewed and feasible and reasonable practices implemented to minimise any further impacts.</li> </ul> </li> </ul>	All stages
NV7	<ul style="list-style-type: none"> <li>● Monitoring               <ul style="list-style-type: none"> <li>○ Noise and/or vibration monitoring will be conducted (as appropriate) in response to any complaints received to verify that levels are not substantially above the predicted levels.</li> </ul> </li> </ul>	Construction, Decommissioning
NV8	<ul style="list-style-type: none"> <li>● Vibration               <ul style="list-style-type: none"> <li>○ Where there is a risk that vibration activities may cause damage to nearby structures and buildings or if these are located within the minimum working distance from the construction activity, a building condition inspection will be undertaken at least three weeks before the construction activity commences.</li> <li>○ The Building Condition Inspection Reports will contain photographs of the inspected properties and include details of the inspectors' qualification and expertise, together with a list of any identified defects, where relevant. The reports will be submitted to the owner before the commencement of any vibration intensive activities.</li> <li>○ A copy of the Building Condition Inspection Reports and CNVMP will be submitted to the Proponent at least 10 working days prior to commencement of piling, excavation by hammering or ripping, compaction, demolition operations, or any activity which may cause damage through vibration.</li> </ul> </li> </ul>	Construction
NV9	<ul style="list-style-type: none"> <li>● Where new and improved BESS technology becomes available within the life of the project, replacement of BESS equipment should aim to achieve sound power levels equal to or lower than detailed</li> </ul>	Operation

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NV10	<ul style="list-style-type: none"> <li>During detailed design / equipment procurement, ensure that the BESS noise emission sources achieve quantities and sound power levels equal to or lower than presented in the Noise Impact Assessment.</li> <li>If overall BESS noise emissions are expected to be higher, additional assessment should be considered. The potential for tonal noise from the inverter units will need to be carefully considered during the detailed design / equipment procurement, such that the specified inverter sound power levels are met if a 5 dB tonal penalty is applicable</li> </ul>	Pre-construction
<b>Biodiversity</b>		
BIO1	<ul style="list-style-type: none"> <li>Tree protection - existing paddock trees and trees adjacent to the site entrance will be subject to standard tree protection measures for construction sites, consistent with AS 4970; and</li> </ul>	Pre-construction
BIO2	<ul style="list-style-type: none"> <li>Erosion and sedimentation control – standard measures will be installed during construction, consistent with the Blue Book (Landcom 2004)</li> </ul>	Pre-construction
BIO3	<ul style="list-style-type: none"> <li>Pruning of trees required to facilitate the transportation of the transformer shall be undertaken in accordance with the advice of a suitably qualified Arborist. All tree pruning is to be undertaken in accordance with the Australian Standard AS 4373-2007 Pruning of Amenity Trees.</li> </ul>	Construction
BIO4	<ul style="list-style-type: none"> <li><b><u>A weed and pest management plan will be prepared prior to construction.</u></b></li> <li>Appropriate weed management protocols will be implemented. All equipment, vehicles and machinery wheels and tracks of excavators and other tracked machinery should be cleaned so that they are completely free of soil, seeds and plant material before entering or leaving the Development Footprint.</li> </ul>	Pre-construction

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<u>BIO5</u>	<ul style="list-style-type: none"> <li><u>The Construction Environmental Management Plan will include all measures related to flora and fauna management. These should include (but not necessarily be limited to) the following measures outlined in this table.</u></li> </ul>	<u>Pre-construction</u>
<u>BIO6</u>	<ul style="list-style-type: none"> <li><u>The boundaries of Project area will be clearly demarcated onsite to prevent unauthorised clearing and vehicular or foot traffic.</u></li> </ul>	<u>Construction.</u>
<u>BIO7</u>	<ul style="list-style-type: none"> <li><u>The three trees external of the Development Footprint's northern boundary (which are adjacent to the proposed access road and retaining wall) should be retained if possible. These include one mature <i>Eucalyptus melliodora</i>, one sapling <i>E. melliodora</i> and one stag (dead tree).</u></li> </ul>	<u>Pre-construction</u> <u>Construction</u>
<u>BIO8</u>	<ul style="list-style-type: none"> <li><u>Tree protection measures will be installed around any trees that are to be retained and are immediately adjacent to the Development Footprint. This should include the establishment of Tree Protection Zones around the trees (to protect their structural root zones) in accordance with Australian standard, Protection of the tree on development sites (AS4970 2009).</u></li> </ul>	<u>Construction</u>
<u>BIO9</u>	<ul style="list-style-type: none"> <li><u>Appropriate sediment and erosion controls will be installed. No excavated material or fill to be placed in flood prone areas. All stockpiles and material to be secure from a one in ten-year flood level and have effective sediment control works to contain run-off.</u></li> </ul>	<u>Construction.</u>
<u>BIO10</u>	<ul style="list-style-type: none"> <li><u>Appropriate stormwater management measures will be included in the Project design and will be maintained for the life of the Project.</u></li> </ul>	<u>Construction</u> <u>Operation</u>
<u>BIO11</u>	<ul style="list-style-type: none"> <li><u>Lighting of the BESS should be of the lowest lux possible and should not face out into adjacent woodland.</u></li> </ul>	<u>Operation</u>

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<b>BIO12</b>	<ul style="list-style-type: none"> <li>• <b><u>Any landscaping of the Development Footprint should include species typical of PCT 3387 Central West Creekflat Grassy Woodland or the White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland TEC. Plants used in landscaping should be of local provenance and human created cultivars should be avoided.</u></b></li> </ul>	<b>Construction</b> <b>Operation</b>
<b>Aboriginal heritage</b>		
<b>ACH1</b>	<ul style="list-style-type: none"> <li>• In the event that unexpected finds occur during any activity within the study area, all works in the vicinity will cease immediately. The find will be left in place and protected from harm. Depending on the nature of the find, the following processes will be followed: <ul style="list-style-type: none"> <li>○ If, while undertaking the activity, an Aboriginal object is identified, under Section 89A of the NPW Act Heritage NSW will be notified as soon as possible; and / or</li> <li>○ If human skeletal remains are encountered, all work will cease immediately, NSW Police will be contacted, and they will then notify the Coroner's Office. Following this, if the remains are believed to be of Aboriginal origin, Aboriginal stakeholders and Heritage NSW will be notified.</li> </ul> </li> </ul>	Construction
<b>ACH2</b>	<ul style="list-style-type: none"> <li>• Evans Plains AS1 (AHIMS 44-3-0282) and Evans Plains IF1 (AHIMS 44-3-0283) will be reburied in proximity to their original locations (outside of the construction impact) in consultation with Aboriginal stakeholders. The new site location will be added to site plans and registered as a new site on AHIMS. During construction this site will be demarcated for the duration of the works and listed as a no-go-zone;</li> </ul>	Pre-construction
<b>ACH3</b>	<ul style="list-style-type: none"> <li>• Consultation with Aboriginal stakeholders will continue area throughout the duration of the Project via a project update sent to Registered Aboriginal Parties at least every 6 months. Aboriginal stakeholders will continue to be informed about management of Aboriginal cultural heritage within the project boundary throughout the duration of the Project.</li> </ul>	Construction

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ID	Mitigation measures	Project stage
ACH4	<ul style="list-style-type: none"> <li>A copy of the ACHA (Austral Archaeology, 2023) will be forwarded to all Aboriginal stakeholder groups who have registered an interest in the Project.</li> </ul>	Pre-construction
ACH5	<ul style="list-style-type: none"> <li>All reasonable steps must be taken to avoid harm, modification of, or impact to Aboriginal objects except as authorised by issued Heritage NSW approval.</li> </ul>	Pre-construction, Construction, Decommissioning
ACH6	<ul style="list-style-type: none"> <li>The Registered Aboriginal Parties must be kept informed about the SSD. The Registered Aboriginal Parties must continue to be provided with the opportunity to be consulted about the Aboriginal cultural heritage management requirements of the SSD.</li> </ul>	All stages
ACH7	<ul style="list-style-type: none"> <li>A procedure for the management of unexpected Aboriginal objects and human remains must be developed in consultation with the Registered Aboriginal Parties and Heritage NSW. The procedure must be prepared in accordance with Heritage NSW guidelines and codes of practice and must be implemented for the duration of the project.</li> </ul>	Pre-construction
ACH8	<ul style="list-style-type: none"> <li><b><u>No further assessment is required to be undertaken for the study area. A 2-metre buffer around the location of Evans Plains IF2 (AHIMS 44-3-0327). This buffer should be fenced with construction fencing during the works to avoid impacts and marked as a no-go zone on construction plans.</u></b></li> </ul>	<b><u>Pre-construction</u></b>
<b>Traffic and access</b>		
TA1	<ul style="list-style-type: none"> <li>Prior to the commencement of construction, an OSOM material route study and a Construction Traffic Management Plan (CTMP) or equivalent document will be prepared to provide traffic and access information such as heavy vehicle routes, contact details of the contractor, <b><u>driver code of conduct</u></b>, site speed limits, etc;</li> </ul>	Pre-construction

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ID	Mitigation measures	Project stage
TA2	<ul style="list-style-type: none"> <li>The Project site access location will be designed with a Basic Left Turn (BAL) treatment as per Austroads Guidelines prior to the commencement of construction and movement of heavy and light vehicles associated with the Project.</li> </ul>	Pre-construction
TA3	<ul style="list-style-type: none"> <li>Dilapidation surveys be undertaken to assess the condition of Evans Plains Road and identify changes (if any) prior to and subsequent to the completion of the proposed construction works.</li> </ul>	Preconstruction, Construction
<b>Visual Amenity</b>		
VA1	<ul style="list-style-type: none"> <li>A visual management plan (VMP) is proposed to be prepared prior to works which will document a range of mitigation measures. If possible, the intention is to colour all visible infrastructure elements to blend with its surrounding context by colour-matching with natural elements. If required, further consideration of landscaping and screening will be applied</li> </ul>	Pre-construction
VA2	<ul style="list-style-type: none"> <li>Reduce the presence of the infrastructure by reducing its visibility within an elevated location such as locating behind existing terrain by painting or cladding all visible infrastructure elements to blend with its surrounding context by colour-matching with natural elements;</li> </ul>	Pre-construction, Construction
VA3	<ul style="list-style-type: none"> <li>It is recommended to choose colours for all visible infrastructure elements that will allow the infrastructure to blend with its surrounding context by colour matching with natural elements;</li> </ul>	Pre-construction
VA4	<ul style="list-style-type: none"> <li>If required, utilise species from the endemic Central Tableland Clay Apple Box Grassy Forest (PCT3366), plant around the existing stand of trees above the site and establishing new stands of trees below the site (where practical to do so and at distances and spacing to meet APZ fire safety requirements in accordance with Appendix 4 of Planning for Bush Fire Protection 2019 (PBP 2019)) to create vegetative buffering that is in character with its surroundings.</li> </ul>	Pre-construction

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VA5	<ul style="list-style-type: none"> <li>A Landscape Concept Plan incorporating perforated steel screening finished in a recessive colour palette to minimise visual impact and blend with the surrounding environment will be implemented. The selected Duratec Intensity ‘Evergreen’ finish ensures the screening integrates with the natural landscape</li> </ul>	Pre-construction
<b>Water Quality</b>		
WQ1	<ul style="list-style-type: none"> <li>Preparation of a CEMP during the detailed design phase of the Project that will outline the environmental measures, monitoring and reporting required to ensure satisfactory environmental performance and result in the potential environmental impact being considered very low and manageable. Minimum requirements for inclusion within the CEMP include:               <ul style="list-style-type: none"> <li>Water quality monitoring quality in the event of a spill, unplanned discharge, or other incident during the construction phase will be carried out as described below for the OEMP;</li> <li>An ESCP for construction activities that is consistent with the measures outlined in this EIS;</li> </ul> </li> </ul>	Pre-construction
<u>WQ2</u>	<ul style="list-style-type: none"> <li>Preparation of an OEMP during the detailed design phase of the Project that will outline the environmental measures, monitoring and reporting required to ensure satisfactory environmental performance. Minimum requirements for inclusion within the OEMP include:               <ul style="list-style-type: none"> <li>Development of a suitable strategy for monitoring and reporting on water quality in the event of a spill, unplanned discharge, or other incident;</li> <li>A procedure for erosion and sediment controls for ground disturbance activities;</li> <li>Requirements for storage and use of hydrocarbons and chemicals, and a Spill Management Plan;</li> </ul> </li> </ul>	Pre-construction, Construction, Operation
WQ3	<ul style="list-style-type: none"> <li>Water monitoring to be undertaken in the event of a spill, unplanned site discharge or other incident that has potential to impact receiving water quality, should include the following response actions:</li> </ul>	Construction, Operation, Decommissioning

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	<ul style="list-style-type: none"> <li>○ A water sample collected at the site of the spill, unplanned site discharge, or other incident and upstream and downstream of the site, and submitted for laboratory analysis. The analytes to assess determined by a suitably qualified third party specialist;</li> <li>○ Photos of the incident captured and the incident documented; and</li> <li>○ If necessary, a suitably qualified third party specialist engaged to investigate potential impacts and accordingly advise of recommended preventative or reparative measures as required.</li> </ul>	
<b>WQ4</b>	<ul style="list-style-type: none"> <li>● Erosion and sediment controls:               <ul style="list-style-type: none"> <li>○ Limiting the area and time of disturbed areas.</li> <li>○ Gentle grades, and a combination of progressive revegetation and surface cover across the site once disturbed.</li> <li>○ Sediment sumps (including appropriate drainage)</li> <li>○ Clean water diversions and sediment fencing</li> <li>○ Erosion Sediment Control Plan (ESCP).</li> </ul> </li> </ul>	Pre-construction, Construction, Decommissioning
<b>WQ5</b>	<ul style="list-style-type: none"> <li>● Spillage of hydrocarbons, chemicals, and fuel:               <ul style="list-style-type: none"> <li>○ Regular inspection of the battery systems, the substation and transformers which will identify any issues with leakages.</li> <li>○ Storage of chemicals in accordance with Australian Standards.</li> <li>○ Storage of hydrocarbon fuels within bunded storage areas.</li> <li>○ Bunding of substations, transformers or other infrastructure that utilise oil.</li> <li>○ Minimise usage of herbicides and avoid spraying when rain is forecast.</li> <li>○ A Spill Management Plan, including emergency response and EPA notification procedures.</li> </ul> </li> </ul>	Construction, Decommissioning
<b>WQ6</b>	<ul style="list-style-type: none"> <li>● Monitoring, licensing, and reporting during construction and operation:               <ul style="list-style-type: none"> <li>○ Documentation of incidents or accidents impacting water quality.</li> </ul> </li> </ul>	All stages

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	<ul style="list-style-type: none"> <li>○ Water quality compliance with SEARs.</li> <li>○ Construction Environmental Management Plan (CEMP).</li> <li>○ Operational Environmental Management Plan (OEMP).</li> <li>○ Regular inspection of the battery systems, the substation and transformers which will identify any issues with leakages.</li> <li>○ A Spill Management Plan, including emergency response and EPA notification procedures.</li> </ul>	
<b>WQ7</b>	<ul style="list-style-type: none"> <li>● Traffic, dust generation:               <ul style="list-style-type: none"> <li>○ Speed limit of 40 km/hr on site.</li> <li>○ Application of erosion-resistant material to road surfaces as required.</li> <li>○ Dust suppression via water trucks as required</li> </ul> </li> </ul>	Construction, Decommissioning
<b>WQ8</b>	<ul style="list-style-type: none"> <li>● Closure and decommissioning:               <ul style="list-style-type: none"> <li>○ A safe, stable, and non-polluting site.</li> <li>○ Decommissioned and removed battery systems.</li> <li>○ Restoring land use capability to its pre-existing use.</li> <li>○ Ensure public safety in the community at all times.</li> <li>○ ESCP.</li> <li>○ Temporary ground cover and revegetation after removal of BESS.</li> </ul> </li> </ul>	Construction, Decommissioning
<b>WQ9</b>	<ul style="list-style-type: none"> <li>● Wastewater disposal:               <ul style="list-style-type: none"> <li>○ Wastewater during construction will be captured and appropriately removed from site/disposed.</li> </ul> </li> </ul>	Construction
<b>WQ10</b>	<ul style="list-style-type: none"> <li>● Water quality:               <ul style="list-style-type: none"> <li>○ Water quality compliance with SEARs.</li> <li>○ CEMP including an ESCP for construction activities</li> </ul> </li> </ul>	All stages

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	<ul style="list-style-type: none"> <li>○ OEMP to identify requirements for water quality monitoring and reporting in the event of a spill, unplanned site discharge, or other incident.</li> <li>○ Progressive rehabilitation of surfaces as installation and removal of batteries proceeds across the site.</li> </ul>	
WQ11	<ul style="list-style-type: none"> <li>● A bulk water permit will be obtained from Council prior to accessing their water supply.</li> </ul>	Pre-construction
<b>Air quality</b>		
AQ1	<ul style="list-style-type: none"> <li>● Exposed surfaces will be minimised and effectively managed with dust and sediment suppression systems (including trucks) throughout construction to reduce the volume of potential dust emission sources.</li> </ul>	Construction
AQ2	<ul style="list-style-type: none"> <li>● Staging of works will be undertaken to reduce area of exposed soil during bulk earthworks including trenching.</li> </ul>	Pre-construction, Construction
AQ3	<ul style="list-style-type: none"> <li>● Activities that generate dust will be avoided or modified during high wind periods.</li> </ul>	Construction, Decommissioning
AQ4	<ul style="list-style-type: none"> <li>● Construction plant and equipment will be maintained in good working condition to limit impacts on air quality, including being fitted with pollution reduction devices where practicable and switched off when not in use.</li> </ul>	Construction
<b>Social</b>		
S1	<ul style="list-style-type: none"> <li>● Community Consultation Strategy:                             <ul style="list-style-type: none"> <li>○ A Community Consultation Strategy (CCS) should be prepared prior to construction commencing to enable information exchange with the community and identify with them the Project specific mitigation and management strategies that will be in place to minimise the potential for negative</li> </ul> </li> </ul>	Pre-construction

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	<p>impacts on the community in and around the construction site. The CCS will also detail processes and communication strategies to ensure that key stakeholders are advised and consulted about major changes and disruptions, and the process for providing feedback and further consultation during the Project.</p> <ul style="list-style-type: none"> <li>○ Continued consultation with relevant stakeholders should be undertaken as per the CCS during operation of the Project.</li> </ul>	
<b>S2</b>	<ul style="list-style-type: none"> <li>● Construction Environment Management Plan (CEMP) The Project CEMP should include a complaints handling procedure for identifying and responding to community issues related to construction impacts. Mitigation measures developed by technical studies prepared for this EIS should also be incorporated into the CEMP, in addition to the following: <ul style="list-style-type: none"> <li>○ A Visual Management Plan (VMP) should be prepared documenting actions to ensure infrastructure elements are colour-matched with natural elements and vegetative screening is maintained; and</li> <li>○ An Engineering Operation and Maintenance Management Plan should be prepared for the facility to include all measures aimed at managing hazards and risks, including specific targeted measures detailed in a Project Emergency Response Plan.</li> <li>○ The CEMP should also provide protocols that will specifically ensure: <ul style="list-style-type: none"> <li>▪ Evans Plains Road is used by heavy vehicles for access to and from the site;</li> <li>▪ Noise from construction vehicles and workers is kept to a minimum while arriving and leaving work, especially outside of agreed construction times; and</li> <li>▪ Carpooling is encouraged where possible.</li> </ul> </li> </ul> </li> </ul>	Pre-construction
<b>Economic</b>		
<b>ECON1</b>	<ul style="list-style-type: none"> <li>● Employment of regional residents where they have the required skills and experience and can demonstrate a cultural fit with the organisation will be considered.</li> </ul>	Pre-construction

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ECON2	<ul style="list-style-type: none"> <li>Representatives will participate, as appropriate, in business group meetings, events or programs in the regional community.</li> </ul>	Pre-construction
ECON3	<ul style="list-style-type: none"> <li>Locally sourcing non-labour inputs to production where local producers can be cost and quality competitive will be considered.</li> </ul>	Pre-construction
ECON4	<ul style="list-style-type: none"> <li>Provision of community grants through various initiatives and programs within the local community, including the education, arts, sporting, and culture sectors will occur annually throughout the duration of the Project.</li> </ul>	Pre-construction
<b>Waste Management</b>		
WM1	<ul style="list-style-type: none"> <li>A Waste And Resources Environmental Management Plan (WREMP) and Operational Environmental Management Plan (OEMP) would be prepared before main construction works and operation of the development commenced.</li> </ul>	Pre-construction
WM2	<ul style="list-style-type: none"> <li>The WREMP and OEMP will collate measures to manage waste and avoid, mitigate, and manage impacts to human health and the environment. The plans will define processes to track waste quantities, roles and procedures for the handling of waste at the project site, and processes for the continual improvement of project waste management.</li> </ul>	All stages
WM3	<ul style="list-style-type: none"> <li>The WREMP and OEMP will collate measures to manage resource consumption and waste generation and would be developed in consultation with the relevant authorities including the NSW EPA. The measures contained in the waste management plan will reflect the waste management hierarchy.</li> </ul>	All stages
WM4	<ul style="list-style-type: none"> <li>Resue and recycling:               <ul style="list-style-type: none"> <li>Reuse of waste streams including sand, soil, concrete and fittings;</li> </ul> </li> </ul>	All stages

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	<ul style="list-style-type: none"> <li>○ Recycling of waste streams including plasterboard, plastics and timber;</li> <li>○ Contract terms with suppliers that specify recyclable content and returnable packaging; and</li> <li>○ Co-operation in stewardship programs for compatible waste streams including pallets expansion of the current collection with additional waste streams such as plastic film derived from packaging.</li> </ul>	
<b>WM5</b>	<ul style="list-style-type: none"> <li>● Waster recovery               <ul style="list-style-type: none"> <li>○ Measures to recover and treat waste will include recovery of compatible waste including oils, solvents, plasterboard, plastics, timber, food and co-mingled containers.</li> </ul> </li> </ul>	All stages
<b>WM6</b>	<ul style="list-style-type: none"> <li>● Waste storage and disposal:               <ul style="list-style-type: none"> <li>○ A central waste area would be established during construction, at which waste and recyclables would be stored. Some materials would be stored in stockpiles while others would be stored in bins. Stockpiles and bins would be appropriately labelled, managed and monitored. Waste and recyclables would be collected by a licensed contractor for offsite recycling; and</li> <li>○ Residual waste that cannot be avoided, reduced, reused, recycle, recovered or treated will be collected by a licensed contractor for disposal at a licensed facility.</li> </ul> </li> </ul>	All stages
<b>WM7</b>	<ul style="list-style-type: none"> <li>● Waste misclassification resulting in missed opportunities to maximise resource recovery and recycling:               <ul style="list-style-type: none"> <li>○ All waste would be assessed, classified, managed and disposed of if reuse is not possible, in accordance with NSW EPA's Waste Classification Guidelines 2014 and the POEO Act.</li> </ul> </li> </ul>	All stages
<b>WM8</b>	<ul style="list-style-type: none"> <li>● Waste spilled while bins are being moved:               <ul style="list-style-type: none"> <li>○ Use appropriate bins with close-fitting lids, regular maintenance, and cleaning of bins, moving bins outside of peak hours wherever possible, proper and safe movement of bins.</li> </ul> </li> </ul>	All stages
<b>WM9</b>	<ul style="list-style-type: none"> <li>● Odour issues related to general and food waste stored on site:</li> </ul>	All stages

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ID	Mitigation measures	Project stage
	<ul style="list-style-type: none"> <li>○ Use of appropriate bins with close-fitting lids, bins washed and maintained, avoid overfilling of bins, regular collection of bins, waste storage area located away from public areas and kept clean and tidy; and</li> <li>○ Waste and recycling storage areas would be designed to be in line with relevant NSW guidelines.</li> </ul>	
<b>WM10</b>	<ul style="list-style-type: none"> <li>● Attraction of vermin and pest in the central waste storage area to general waste bins:               <ul style="list-style-type: none"> <li>○ Use of appropriate bins with close-fitting lids, bins washed and maintained, avoid overfilling of bins, regular collection of bins, waste storage area kept clean and tidy; and</li> <li>○ Implementation of Vermin Management Plan if required.</li> </ul> </li> </ul>	All stages
<b>WM11</b>	<ul style="list-style-type: none"> <li>● Fire hazard:               <ul style="list-style-type: none"> <li>○ Bins kept in secure area or cage. Fire extinguisher and other protection measures provided.</li> </ul> </li> </ul>	All stages
<b>WM12</b>	<ul style="list-style-type: none"> <li>● Vandalism:               <ul style="list-style-type: none"> <li>○ Bins kept in secure area or cage. Compactors secured with only authorise people allowed access.</li> </ul> </li> </ul>	All stages
<b>WM13</b>	<ul style="list-style-type: none"> <li>● Generation of asbestos waste or other hazardous waste:               <ul style="list-style-type: none"> <li>○ Hazardous wastes or asbestos identified during construction and operation will be managed lawfully.</li> </ul> </li> </ul>	All stages
<b>WM14</b>	<ul style="list-style-type: none"> <li>● Land, surface, and groundwater contamination, transportation, and disposal of solid wastes:               <ul style="list-style-type: none"> <li>○ A WREMP contained in the OEMP would include methods for managing wastes.</li> </ul> </li> </ul>	All stages
<b>WM15</b>	<ul style="list-style-type: none"> <li>● Noise impacts associated with waste collection, movement, and transport:               <ul style="list-style-type: none"> <li>○ Provision of adequate storage onsite to minimise traffic movements.</li> <li>○ Scheduling waste and residues collection at approved hours.</li> </ul> </li> </ul>	All stages

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ID	Mitigation measures	Project stage
WM16	<ul style="list-style-type: none"> <li>• Visual amenity impacts resulting from waste storage and movements at the project site (e.g., bins storage, collection, and transport):               <ul style="list-style-type: none"> <li>○ Ensuring dedicated waste management areas that would be enclosed within the site boundary</li> </ul> </li> </ul>	All stages
WM17	<ul style="list-style-type: none"> <li>• Offsite air, land, and water pollution due to windblown wastes following inappropriate storage, handling, and transportation of waste, including human health exposure risk:               <ul style="list-style-type: none"> <li>○ Waste would be separately collected and transported by licenced waste contractors and disposed of at appropriately licensed disposal or recycling facilities.</li> </ul> </li> </ul>	All stages
WM18	<ul style="list-style-type: none"> <li>• Full decommissioning of the site to a depth of 500mm below ground surface will be completed (unless otherwise agreed with land owner).</li> </ul>	Pre-construction
<b>Hazard and Risk</b>		
HCH1	<ul style="list-style-type: none"> <li>• An Asset Protection Zone (APZ) will be established to creates a total separation from the nearest piece of equipment on the site to the nearest vegetation of the following: 22 m to the east (upslope vegetation), 25 m to the north and south (gentle down slope vegetation), and 29 m to the west (slightly greater downslope vegetation).</li> <li>• <b><u>A recommended Asset Protection Zone of 25m will be adopted within the existing footprint of the north-western area of the Transgrid Substation</u></b></li> </ul>	Pre-construction, Construction
HCH2	<ul style="list-style-type: none"> <li>• The APZ is located wholly within the broader Project site, is situated on flat cleared ground, and will provide adequate total site access for firefighting personnel and equipment. A management regime will be established following construction to ensure the ongoing integrity of the APZ throughout the duration of the project.</li> </ul>	Operation

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ID	Mitigation measures	Project stage
HCH3	<ul style="list-style-type: none"> <li>The Project will comply with the relevant construction requirements of AS3959:2018 as a BAL-12.5 development.</li> </ul>	Operation
HCH4	<ul style="list-style-type: none"> <li>Project access will be established and maintained to meet Rural Fire Service (RFS) requirements.</li> </ul>	Construction
HCH5	<ul style="list-style-type: none"> <li>Road carrying capacity, turning circles, etc, will be designed for fully loaded firefighting vehicles of up to 23 tonnes.</li> </ul>	Construction
HCH6	<ul style="list-style-type: none"> <li>A minimum 20,000 litre (L) dedicated water supply for firefighting purposes will be established prior to the commencement of construction.</li> </ul>	Pre-construction
HCH7	<ul style="list-style-type: none"> <li>A Bushfire Emergency Management Plan (BEMP) will be prepared for each stage of the project and identify measures to prevent any vegetation from taking hold within the proposed APZ zone around the site, limiting the height of pasture species surrounding the site to less than 1 m. The BMP for the facility will also include measures for the management of bushfire risk initiators across the construction, operation, and decommissioning phases of the Project inclusive of storage of fuels/chemicals, lightning strikes, ground cover within the Project site, and ignition of electrical equipment.</li> </ul>	Pre-construction
HCH8	<ul style="list-style-type: none"> <li>The detailed design of the facility will be developed in accordance with Energy Networks Association (ENA) ENA Policy Statement on Electric and Magnetic Fields.</li> </ul>	Pre-construction
HCH9	<ul style="list-style-type: none"> <li>Site security fencing will be maintained through the lifetime of the Project.</li> </ul>	All stages
HCH10	<ul style="list-style-type: none"> <li>Use of fully bunded oil storage for transformers in accordance with AS1940-2017.</li> </ul>	Construction, Operation, Decommissioning

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ID	Mitigation measures	Project stage
HCH11	<ul style="list-style-type: none"> <li>An Engineering Operation and Maintenance Management Plan will be prepared for the facility to address electrical hazards.</li> </ul>	Pre-construction
HCH12	<ul style="list-style-type: none"> <li>A project Emergency Response Plan will be prepared and include description of:               <ul style="list-style-type: none"> <li>warning signs throughout the facility, based on the level of danger posed by the relevant voltages and current involved, especially focussed on first responders in an emergency situation, e.g. firefighters attending the site, hazmat attendees, etc;</li> <li>Instructions available to all authorised personnel (including firefighters, etc) regarding the level of personal protective clothing required to be worn, respiratory protection required, minimum evacuation zone distances, etc;</li> <li>Instructions covering safe shut-down and isolation procedures for all equipment to be readily available for emergency service personnel as well as on-site staff;</li> <li>Security fencing around individual equipment items as required (based on risk principles) and the entire site itself, properly maintained throughout the life of the Project, all with adequate hazard warning signs; and</li> <li>A safety protocol for the site which prevents untrained individuals from inspecting, testing, or repairing any aspect of the facility's electrical equipment and systems.</li> </ul> </li> </ul>	Pre-construction
HCH13	<ul style="list-style-type: none"> <li>A Fire Safety Study would be developed post-approval with consideration of the implications of toxic gas release and smoke pollution</li> </ul>	Pre-construction
<b>European History</b>		
EH1	<ul style="list-style-type: none"> <li>If European archaeological relics are found during the works, all works in the immediate vicinity will cease immediately and Heritage NSW will be notified. A qualified archaeologist will be contacted to assess the situation and consult with Heritage NSW regarding the most appropriate course of action</li> </ul>	Pre-construction, Construction, Decommissioning

ID	Mitigation measures	Project stage
<b>Contamination</b>		
<b><u>C1</u></b>	<ul style="list-style-type: none"> <li>• <b><u>An Unexpected Finds Procedure should be developed and implemented, should contaminated material be identified onsite during the construction program</u></b></li> </ul>	<b><u>Prior to earth disturbance works</u></b>