

EIS CONSISTENCY ASSESSMENT REPORT (MINOR) CASSIDY PARADE AND PEARSON STREET UTILITY ADJUSTMENTS

A2I | Albury to Illabo





#### **Document Control**

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#### 

# Glossary

Specific terms and acronyms used throughout this consistency assessment are listed and described in the table below.

TERM	DEFINITION		
Action Management Plan	<i>EPBC Act:</i> In relation to an action, means a plan for managing the impacts of the action on a matter protected by a provision of Part 3, such as a plan for conserving habitat of a species.		
AHD	Australian Height Datum		
AltA	Alternative Accommodation		
A2I	Albury to Illabo section of the Inland Rail Program		
ARTC	Australian Rail Track Corporation		
ASP1	Accredited Service Provider Level 1		
ASS	Acid Sulfate Soils		
BARM	Biodiversity Assessment Report Memo (undertaken by East Coast Ecology, October 2024)		
CBD	Central Business District		
CEMF	Construction Environmental Management Framework		
CEMP	Construction Environmental Management Plan		
CBMP	Construction Biodiversity Management Plan		
CNVIS	Construction Noise and Vibration Impact Statement (undertaken by SLR Consulting, March 2025)		
CNVMP	Construction Noise and Vibration Management Plan		
CSWMP	Construction Soil and Water Management Plan		
CTTAMP Construction Traffic, Transport, and Access Management Plan			
CWCHMMP Construction Waste, Contamination and Hazardous Materials Management Pla			
Cassidy Parade	Cassidy Parade pedestrian bridge enhancement site		
Change	Macquarie Dictionary: A variation, adjustment, alteration, deviation or transformation to the Project scope, construction methodology or design.		
СоА	Condition(s) of Approval		
Construction	Includes work required to construct the CSSI as defined in the Project Description described in the documents listed in Condition A1 including commissioning trials of equipment and temporary use of any part of the CSSI but excluding Low Impact Work which is carried out or completed prior to approval of the CEMP.		
Consistent	Macquarie Dictionary: Agreeing or accordant; compatible; not self-opposed or self-contradictory; constantly adhering to the same principles, course, etc.		
Consistent with Means that carrying out the Project (as approved) will comply with the terms of approval despite the Proposed Change. (See Barrick Australia Ltd v. Williams NSWCA 275)			
Compatible	Macquarie Dictionary: Capable of existing in harmony. Capable of orderly, efficient integration with other elements in a system.		
DAWE	Former Australian Government Department of Agriculture, Water and Environment		



Division 5.2 Approval	An approval under Division 5.2 of the NSW Environmental Planning and Assessment Act				
	1979 for State Significant Infrastructure / Critical State Significant Infrastructure.				
EAD	Environmental Assessment Documentation				
EIS	Environmental Impact Statement				
EPL	Environment Protection Licence				
HNA	Highly Noise Affected				
HV	Heavy Vehicle				
IRPL	Inland Rail Pty Ltd (subsidiary of ARTC)				
LEP	Local Environment Plan				
LV	Light Vehicle				
MR	Martinus Rail, the principal contractor appointed by IRPL to construct the A2I section of the Inland Rail program.				
Modification of an Approval	Section 5.25 Environmental Planning and Assessment Act 1979: Means changing the terms of the Division 5.2 approval, including revoking or varying a condition of the approval or imposing an additional condition on the approval.				
Pearson Street	Pearson Street Bridge enhancement site				
PIR	Preferred Infrastructure Report				
PM10	Particles with a diameter of 10 micrometres or less				
PM2.5	Particles with a diameter of 2.5 micrometres or less				
PMST	Protected Matters Search Tool				
Proposed Change	Construction work for the Albury to Illabo (A2I) section of the Inland Rail—program requires the relocation or adjustment of utilities due to conflicts with the location of infrastructure.				
SHR	State Heritage Register				
UMF	Utilities Management Framework (Appendix D of the EIS)				
UMM	Updated Mitigation Measure(s)				
WWCHA	Wagga Wagga Heritage Conservation Area				
WWUNAHA	Wagga Wagga Utilities Non-Aboriginal Heritage Assessment (undertaken by Ozark Environment and Heritage Management, November 2024)				

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## 1 Introduction

## 1.1 Background

### 1.1.1 Division 5.2 approval

ARTC prepared an Environmental Impact Statement (EIS) for the Inland Rail – Albury to Illabo Project which was placed on public exhibition from 17 August 2022 to 28 September 2022. The EIS identified a range of environmental, social and planning issues associated with the construction and operation of the Albury to Illabo (A2I) Project and proposed measures to mitigate and manage those potential impacts.

In accordance with section 5.17(6)(b) of the EP&A Act, on 13 April 2023 the Planning Secretary directed ARTC to submit a Preferred Infrastructure Report (PIR) that provides further assessment of traffic and transport, noise and vibration, and air quality impacts. The PIR was also prepared to consider changes to the exhibited Project that have arisen as a consequence of these further assessments and related submissions.

The Inland Rail – Albury to Illabo Project was assessed as part of the following documents:

- Inland Rail Albury to Illabo Environmental Impact Statement (ARTC, August 2022);
- Albury to Illabo Response to Submissions (ARTC, November 2023);
- Albury to Illabo Preferred Infrastructure Report (ARTC, November 2023);
- Albury to Illabo Preferred Infrastructure Report Response to Submissions (ARTC, February 2024);
- Inland Rail Albury to Illabo (SSI-10055) Response to request for additional information Air Quality
  - Assessment (letter dated 1 May 2024);
- Part 1 Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024);
- Part 2 Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024);

The Minister for Planning and Public Spaces approved the Albury to Illabo Project under section 5.19 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) on 8 October 2024. The approval incorporated the Minister's Conditions of Approval.

For the purposes of this consistency assessment (CA), the approval issued by the NSW Minister for Planning and Public Spaces for the A2I Project is referred to as the Division 5.2 approval.

## 1.1.2 EPBC Act referral

The A2I Project was referred to the Australian Government Minister for the Environment under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) due to potential for impacts on protected matters on 2 June 2020 (EPBC Referral No 202/8670). On 29 June 2020, the former Australian Government Department of Agriculture, Water and Environment (DAWE) notified that the proposal is not a controlled action, and hence approval under the EPBC Act is not required.

### 1.1.3 **Project changes**

The Project has not been subject to a modification under section 5.25 of the EP&A Act.

The following consistency assessments have been prepared to support the undertaking of the Project:

- EIS Consistency Assessment Report (Minor) Wagga Wagga Utility Adjustments (MR, January 2025)
- EIS Consistency Assessment Report (Minor) Junee to Illabo Clearances (MR, April 2025)
- EIS Consistency Assessment Report (Minor) Kildare Catholic College (MR, April 2025)



## **1.2 Purpose of consistency assessment**

This consistency assessment has been prepared in accordance with the Inland Rail Pty Ltd (IRPL) specification for NSW Consistency Assessments (0-0000-902-EEC-00-SP-0001\_1). The purpose of this consistency assessment is to:

- Describe the Proposed Change relative to the Division 5.2 approval.
- Assess the environmental impacts associated with the Proposed Change relative to the Division 5.2 approval.
- Determine if the Proposed Change is consistent with the Division 5.2 approval or whether further approval is required either for a modification application or a new Project.

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## 2 Proposed Change

## 2.1 Description of Proposed Change

Construction work for A2I requires the relocation or adjustment of utilities due to conflicts with the location of infrastructure. The Utilities Management Framework (UMF) (Appendix D of the EIS) describes the utility works that form part of the approved Project.

The Proposed Change relates to the construction footprint and methodology for utility works at:

- > The Pearson Street bridge enhancement site (Pearson Street);
- > The Cassidy Parade pedestrian bridge enhancement site (Cassidy Parade).

The UMF states that utility relocation and adjustment works would generally be contained within the construction boundary and were assessed as part of the EIS. It also states that due to ongoing consultation with utility providers and confirmation of the final treatment solution during detailed design, there may be instances where a utility needs to be relocated outside of the construction boundary.

Accordingly, this Consistency Assessment report (CA) will focus on the areas outside the currently approved construction boundary, or where utility relocation and adjustment works differ from what was specified in the UMF. The Proposed Changes are outlined in more detail in the sections below.

### 2.1.1 Pearson Street Bridge

The utility works at the Pearson Street Bridge enhancement site (Pearson Street) include the relocation or protection of the following services:

- High pressure gas mains;
- Water mains;

The UMF proposed a work plan, subject to ARTC and utility owner validation, for the above works. Changes to the UMF work plan are described in Table 2.1. The additional areas required to complete these works are shown in Figure 2.1.

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Figure 2.1: Proposed Change in relation to the approved EIS construction boundary at Pearson Street

### 2.1.2 Cassidy Parade Pedestrian Bridge

The utility works at the Cassidy Parade pedestrian bridge enhancement site (Cassidy Parade) include the relocation or protection of the following services:

- High pressure gas mains;
- Street lighting.

The UMF proposed a work plan, subject to ARTC and utility owner validation, for the above works. Changes to the UMF work plan are described in Table 2.1. The additional area required to complete these works are shown in Figure 2.2.

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\*Note: No trimming or removal of vegetation will occur at Kildare Street





#### Table 2.1: Proposed Change compared to approved Project

CHAINAGE	UTILITY AUTHORITY OWNER	ASSET DESCRIPTION	LOCATION	ENHANCEMENT SITE	TREATMENT	EIS WORK PLAN	PROPOSED WORK PLAN
523.350	Riverina Water	CICL 375 mm water main	Wagga Wagga	Pearson Street bridge	Relocate	Relocated in under bore beneath track	No change – works to be undertaken as per EIS work plan.
523.350	Riverina Water	CICL 375 mm water main	Wagga Wagga	Pearson Street bridge	Relocate	Part removal of asset portion to tie into proposed relocation of the water main	No change – works to be undertaken as per EIS work plan.
523.350	Riverina Water	CICL 375 mm water main	Wagga Wagga	Pearson Street bridge	Relocate	Part removal of asset portion to tie into proposed relocation of the water main	No change – works to be undertaken as per EIS work plan.
523.380	Essential Energy	11 KV hv underground cable	Wagga Wagga	Pearson Street bridge	Relocate	Lower conduits to obtain minimum 1.2 m cover below proposed earthworks	Utilities no longer being relocated, working around existing utilities outside minimum safe working distances.
523.380	Essential Energy	11 kV hv underground cable	Wagga Wagga	Pearson Street bridge	Relocate	Lower conduits to obtain minimum 1.2 m cover below proposed earthworks	Utilities no longer being relocated, working around existing utilities outside minimum safe working distances.
523.380	Essential Energy	Underground pipe	Wagga Wagga	Pearson Street bridge	Relocate	Lower conduits to obtain minimum 1.2 m cover below proposed earthworks	To be protected. Installation of a protection slab above conduit.
523.380	Essential Energy	Underground pipe	Wagga Wagga	Pearson Street bridge	Relocate	Lower conduits to obtain minimum 1.2 m cover below proposed earthworks	To be protected. Installation of a protection slab above conduit.
523.485	APA	High pressure gas main	Wagga Wagga	Pearson Street bridge	Relocate	Lower main to minimum 2.0m cover beneath proposed earthworks in 250 mm encasing pipe.	No change – works to be undertaken as per EIS work plan.
521.600	Essential Energy	LV Electrical and light poles	Wagga Wagga	Cassidy Parade pedestrian bridge	Relocate	To be removed with demolition of bridge and re-installed as required for new bridge.	No change – works to be undertaken as per EIS work plan.



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521.600	ΑΡΑ	Steel DN150 high pressure gas main	Wagga Wagga	Cassidy Parade pedestrian bridge	Relocate	1 0	To be protected. Installation of protection slab above existing gas main.
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## 2.2 Methodology

#### Work Plan

The methodology for the treatment of utilities within the construction boundary was outlined in Attachment A of Appendix D of the EIS. The EIS work plan is compared to the proposed detailed design work plan in Table 2.1 above. All activities are proposed to be undertaken as construction under Stage A.

#### Pearson Street bridge activities

- Site establishment activities
  - Site mobilisation which includes barriers and hoarding of sites;
  - > Utility investigations, to confirm utility depths, inside and outside corridor;
  - > Preparation of area for utility relocation works including minor clearing and trimming of vegetation.
- Auger bore activities
  - Martinus Rail (MR) excavations undertaken outside rail corridor;
  - Auger bore works undertaken to prepare for water and gas relocation works.
- Riverina Water and APA
  - APA mobilises existing site locations;
  - APA high pressure works commence;
  - Riverina Water mobilises existing site locations.
- Riverina Water and APA
  - APA high pressure works continue;
  - Riverina Water water relocation works continue.
- Riverina Water and APA
  - > APA high pressure works cutover & demobilisation;
  - Riverina Water water relocation works cutover & demobilisation.
- Essential Energy 11kV underground cable activities
  - > Temporary safe working zones to be implemented (no permanent physical protection works required).
  - Installation of a protection slab above conduit.

#### Cassidy Parade pedestrian bridge activities

- Site establishment activities
  - Site mobilisation which includes barriers and hoarding of sites;
  - Utility investigations, to confirm utility depths, to be undertaken along Cassidy Parade, Brookong Ave and within the Rail Corridor;
  - Preparation of area for utility relocation and protection works including minor clearing and trimming of vegetation.
- APA and Accredited Service Provider Level 1 (ASP1) activities
  - APA mobilises within rail corridor;
  - APA undertakes protection slab works;
  - ASP1 mobilises at Brookong Ave;



- ASP1 undertakes streetlighting disconnection works.
- Essential Energy 11kV underground cable activities
  - LV electrical and light poles removal with demolition of bridge and re-installed as required.

#### **Construction boundary**

Consultation with utility asset owners was initially undertaken by Inland Rail during preparation of the Environmental Assessment Documentation (EAD). These discussions identified indicative adjustment requirements for existing utilities to enable construction of the reference design considered by the EAD.

Further detailed design and consultation with utility owners has resulted in the variations outlined in Table 2.1 and the requirement to adjust the construction boundary. This is consistent with Section D.1 of the UMF which states "consultation with utility providers is ongoing and confirmation of the final treatment solution would occur during detailed design".

#### Plant and equipment

Plant and equipment required for these works includes:

- Franna
- Light vehicles
- ▶ EWP
- Chainsaw
- Tipper trucks
- Concrete agitator
- Wacker packer
- Excavators
- Excavator with hammer attachment
- NDD trucks
- Dump trucks
- Hand tools
- Road saw
- Plate compactor
- Auger bore
- Pipe cutting and welding equipment

### 2.3 Need

The UMF determined the location of utilities within the rail corridor, or that would cross the rail corridor, based on the concept design. The location was confirmed based on Dial Before You Dig plans, and third-party data and field observations. Table 2.1 above shows the utility works in the Pearson Street bridge and Cassidy Parade pedestrian bridge enhancement sites identified as part of the EIS.

The UMF states that these utility relocations and adjustments would generally be contained within the proposal site and were therefore considered as part of the environmental impact assessment undertaken, however, consultation with utility providers would be ongoing and confirmation of the final treatment solution would occur during detailed design. Therefore, there may be instances where a utility needs to be relocated outside of the construction boundary. Table 27-2 of Chapter 27 of the EIS lists utilities as an uncertainty that would be resolved during detailed design. It is stated that this uncertainty would be resolved by undertaking



utilities investigations, including intrusive investigations, and consultation and agreement with service providers.

Detailed design undertaken since the preparation of the UMF has confirmed the type, location and method for treatment of the utilities described in Appendix D1 of the EIS. These design refinements respond to additional investigations and utility owner consultation as allowed for in Table 27-2 of the EIS.

### 2.3.1 Utilities Management Framework

To identify potential impacts associated with works outside the approved construction boundary, the riskbased process contained in the UMF has been applied to the Proposed Change. This ensures consistency with the UMF approach, which contains the following steps:

1. Confirm utilities requiring relocation or protection works;

Major utilities within the rail corridor were identified in the UMF as potentially requiring protection, adjustment or relocation works. During detailed design, further assessment was undertaken to confirm the Cassidy Parade pedestrian bridge and Pearson Street bridge enhancement site utilities that require relocation, or protection works where they are in conflict with the Project. These are outlined in Table 2.1.

2. Confirm preferred approach and design refinement;

The UMF outlines the need to confirm the treatment approach for each utility service impacted by the Project. The UMF nominated treatments approaches were reviewed during detailed design to confirm whether diverting, adjusting, relocating or wrapping/protecting is the most appropriate method. This review also included the construction methods used to treat each utility.

3. Detailed assessment;

This step builds on the previous two, with direct input from the utility owners. Work plan packages were issued to Riverina Water, Telstra, APA, and Essential Energy to confirm whether the proposed treatment approach is acceptable, or whether further refinement is required to meet the relevant utility owner's specification.

4. Ongoing consultation with asset owners and relevant stakeholders;

As outlined in the steps above, ongoing consultation with Riverina Water, Telstra, APA, and Essential Energy has occurred to both determine a suitable design and to liaise on construction works with the potential to directly or indirectly impact utilities would be coordinated. Ongoing consultation with the utility asset owners has been undertaken since the EIS was prepared, and the final details of the utility scope in this area have been determined. To identify potential impacts associated with these works, a risk-based approach has been adopted and is contained within the UMF.

5. Construction management;

Work activities, including utility works, would be managed in accordance with the Project approval and all applicable environmental documents developed for the Project.

## 2.4 Location and setting

The Proposed Changes are located in Wagga Wagga and relate to the Cassidy Parade pedestrian bridge and Pearson Street bridge enhancement sites, located to the west of the Wagga Wagga Railway Station on the Main Southern Railway Line.

Aspect specific location and setting information as it relates to the Proposed Change is contained in the subsections below.



## 2.5 Construction hours

The works associated with the Proposed Change will be timetabled to be carried out during the approved standard construction hours as per the Project's Environment Protection Licence #21984 (EPL), where possible. The standard construction hours are as follow:

- > 7:00am to 6:00pm Monday to Friday, inclusive;
- 8:00am to 6:00pm Saturday and
- At no time on Sundays or public holidays.

The Proposed Change activities may occur outside of standard construction hours and the hours approved as part of CoA E69 and EPL L4 condition. Any out-of-hours works (OOHW) within the extended CIZ would be implemented in accordance with CoA E71 and EPL L4 condition.

#### 

## 3 Consultation

Inland Rail does not always carry out consultation for consistency assessments. However, in some cases consultation may be carried out to:

- > Help identify the nature and scale of the impacts.
- Involve the community in the options considerations for the Proposed Change.
- Manage community expectations for the Project.
- > Provide the best design outcome that minimises environmental impacts.

As considered above, Martinus Rail has undertaken ongoing consultation with asset and/or property owners in relation to determining a suitable design and to coordinate construction impacts on existing operational utilities.

Consultation with each of the affected landowners where works are proposed outside the construction boundary would be undertaken prior to commencement of works.

For works occurring in the Cassidy Parade pedestrian bridge enhancement site, consultation with Erin Earth has been provided in Appendix F, with no expected impacts on Erin Earth as a result of the Proposed Change.

Where vegetation removal is proposed on land not owned by Inland Rail, consultation will be carried out with the property owner including confirming any revegetation/rehabilitation requirements. This will be undertaken in accordance with the Community Communication Strategy (IRPL, 2024), prior to the removal of vegetation.

The community would be notified in accordance with Section 7.1 of the Community Communication Strategy (IRPL, 2024), including where works may be required outside of the approved construction hours for A2I, prior to commencement of works. Any complaints, feedback or enquiries would be handed in accordance with Section 8 of the Community Communication Strategy.



## 4 Environmental Assessment

## 4.1 Environmental risk review

An environmental risk review of the proposed activities has been undertaken, including consideration of the UMF, and is provided below in Table 4.1. Assessments of potential impacts are provided in greater detail for:

- Traffic and transport (Section 4.2)
- Noise and vibration (Section 4.3)
- Non-Aboriginal heritage (Section 4.4)
- Biodiversity (Section 4.5)
- Flood risk (Section 4.6)
- Soils and contamination (Section 4.7)
- Air quality (Section 4.8)
- Landscape and visual (Section 4.9)

#### Table 4.1: Consistency assessment review

ISSUE	Y/N	NOTES
Are works required outside the IR property acquisition boundary, or land not previously impact on by Project works?	Y	Where works will occur on road reserve these will be carried out through the relevant councils (S138 process). For works occurring outside of the IRPL acquisition boundary, Land Access and Licence Agreements are currently being developed to address this.
Will the works result in any changes to form or functionality of the approved Project?	N	The Proposed Change would not impact on the form of functionality of the approved Project. The utility works are an essential component of the broader A2I Project as they enable key works at the Cassidy Parade pedestrian bridge and Pearson Street bridge enhancement sites.
Are there any potential impacts on traffic and transport associated with the works?	Y	The Proposed Change would result in minimal and short-term traffic and transport impacts. These impacts are therefore considered in greater detail in Section 4.2.
Are there any potential noise and vibration impacts associated with the works?	Y	The Proposed Change would result in short-term noise and vibration impacts. These impacts are considered in greater detail in Section 4.3.
Are there any potential impacts on known Aboriginal heritage items or sites located in the vicinity of the works?	N	There are no known Aboriginal heritage items or sites located within the Proposed Change area. Refer to Appendix C for the Aboriginal Heritage Information Management System (AHIMS) basic search results.
Are there any potential impacts on non- Aboriginal heritage items or sites located in the vicinity of the works?	Y	The Proposed Change is located in proximity to known non- Aboriginal heritage items and sites. These impacts are therefore considered in greater detail in Section 4.4.
Are the works within 50m of an EEC or threatened species?	Y	The Proposed Change is located in an area where several threatened species have been sighted. These impacts are therefore considered in greater detail in Section 4.5.
Do the works require clearing of native vegetation or habitat trees?	Y	Trimming and clearing of vegetation (0.29 ha) is required within the scope of works for the Proposed Change. The impacts associated with trimming and clearing of vegetation are considered in greater detail in Section 4.5.
Are the works within 40m of a waterway or water body?	N	There are no waterways located within the Proposed Change area at Cassidy Parade pedestrian bridge or Pearson Street bridge. The nearest waterway is the Murrumbidgee River, located

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		approximately 1,500m northeast of Cassidy Parade pedestrian bridge, and 2,000m north of Pearson Street bridge. There is an unnamed tributary of Flowerdale Lagoon, located approximately 70m from the Proposed Change at Pearson Street.
Are the works located on flood prone land?	Y	The Proposed Change is located in flood prone land. The impacts associated with flooding risk, are discussed in greater detail in Section 4.6.
Are the works located on bushfire prone land?	N	The Proposed Change is not located on bushfire prone land.
Do the works involve ground disturbance of more than 2 hectares?	N	The additional construction impact zone required as part of the Proposed Change is under 2 hectares. The extent of ground disturbance required for the Proposed Change would be less than the proposed construction impact zone.
Are the works in an area of known salinity hazard risk?	Y	The Proposed Change is located in areas of low and moderate salinity hazard. The impacts associated with salinity are discussed in greater detail in Section 4.7.
Are the works in an area of known acid sulfate soil risk?	Y	The Proposed Change is located in an area of a low probability for acid sulfate soils occurrence. The impacts associated with acid sulfate soils are discussed in greater detail in Section 4.7.
Will works require temporary or permanent placement of surplus spoil material?	Y	The Proposed Change would require temporary placement of surplus spoil material, this material will be accommodated within the proposed stockpile/laydown sites and reused/disposed of in accordance with Chapter 23 of the EIS.
Are the works in an area of known contamination risk?	Y	The Proposed Change is located in an area noted as a general contamination risk. The impacts associated with contamination are discussed in greater detail in Section 4.7.
Are there any potential air quality impacts associated with the works?	Y	The Proposed Change would result in potential minor and short- term air quality impacts. These impacts are discussed in greater detail in Section 4.8.
Are there any potential landscape and visual impacts associated with the works?	Y	The Proposed Change would result in minor and short-term landscape and visual impacts. These impacts are discussed in greater detail in Section 4.9.
Will works result in any operational impacts further to those detailed in the approved Project?	N	The Proposed Change relates to required adjustment of utilities designed in consultation with the parties responsible for maintenance of the respective assets. The Proposed Change would not represent an increase in operational impact to what was assessed in the approved Project.

## 4.2 Traffic and transport

#### 4.2.1 Existing environment

As noted in Section 2.4, the Proposed Change is located within the Cassidy Parade pedestrian bridge and Pearson Street bridge enhancement sites, west of the Wagga Wagga Railway Station, on the Main Southern Railway Line.

Cassidy Parade runs adjacent to the south side of the rail line providing access to the rail line, Kildare Catholic College via Kildare Street, and residential areas. Cassidy Parade is estimated to carry a relatively low daily traffic volume of 664 with 3% being heavy vehicles (HV). Norman Street runs north-south connecting Coleman Street to Cassidy Parade, with an estimated daily traffic volume of 332, and 3% HVs. On the north side of the rail line, the enhancement site is accessible from Brookong Avenue, which is estimated to have a daily traffic volume of 1,215, with 8% being HVs (EIS, Chapter 9 and Technical Paper 1).

There is existing pedestrian and public transport infrastructure located within and around Cassidy Parade pedestrian bridge enhancement site, with footpaths present on most roads and the pedestrian bridge providing a north-south crossing over the rail corridor.

At Pearson Street, Urana Street provides access to the rail line from the south, Showgrounds, and residential areas. Urana Street is estimated to carry a daily traffic volume of 4,758, with 2% being HVs. On the North side, Pearson Street bridge enhancement site is accessed off Cheshire Street. Cheshire Street provides access to commercial and industrial areas adjacent to the northern side of the rail line and has a daily traffic volume of 491 with 5% being HVs (EIS, Chapter 9 and Technical Paper 1).

There is existing pedestrian and public transport infrastructure located within the vicinity of Pearson Street.

### 4.2.2 Impact assessment

The CIZ extensions proposed at Pearson Street bridge do not encroach on any local or main roads and are not expected to increase the traffic and transport impacts.

At Cassidy Parade pedestrian bridge, the Proposed Change would result in the potential for minor and shortterm traffic and transport impacts. It is anticipated that any road or footpath closure will only be temporary and will have minimal impact to residents and local traffic. Any diversions that are required will be set up as per the Traffic Guidance Schemes (TGS) and ensure safe pedestrian passage and access, with no additional impacts expected.

At both sites, the number and type of construction vehicles required for the proposed works are aligned with the EAD, therefore, no increase in construction traffic is anticipated as a result of the Proposed Change.

### 4.2.3 Conclusion

The Proposed Changes are not anticipated to increase traffic associated with construction activities at Cassidy Parade pedestrian bridge or Pearson Street bridge. The impacts would be generally in accordance with the impacts considered as part of the EAD and would be managed in accordance with traffic management as part of the broader A2I Project and in accordance with the Infrastructure Approval.

All applicable mitigation measures in the Conditions of Approval (CoAs) and Updated Mitigation Measures (UMMs) will be implemented, with any identified additional mitigation measures outlined in Table 4.11.

## 4.3 Noise and vibration

### 4.3.1 Existing environment

Common noise and vibration sources in the subject area are train movements along the operational rail corridor, major road traffic and local traffic. Potentially sensitive receivers are those that may be affected by changes in noise and vibration levels within the work area. Consistent with the adopted standards and guidelines, sensitive receivers in the work areas include residential dwellings, schools and education institutions, places of worship, childcare centres, medical facilities, commercial property and industrial premises.

The existing vibration environment in close proximity to the railway line includes vibration from existing freight train movements on the alignment. Additional sources of vibration may be associated with operation of industrial premises, road traffic operations and construction activities typical of the environment. Adjacent heritage structures are considered as vibration sensitive receivers due to the potential for cosmetic damage; however, a heritage structure should not be assumed to be more sensitive to vibration, unless it is structurally unsound.

### 4.3.2 Impact assessment

#### Noise catchment areas



Noise catchment areas (NCA) were defined in the EIS to classify groups of sensitive receivers that are likely to have a similar existing noise environment and experience similar impacts from construction of the Project. These were determined through reference to aerial imagery and land use maps and verified during background noise monitoring.

A Construction Noise and Vibration Impact Statement (CNVIS) (SLR March 2025 Doc No: 6-0052-210-EEC-W0-AS-0001\_0.3) was undertaken for the Wagga Wagga Utilities Works scope, including the activities associated with the Proposed Change. The CNVIS is presented in Appendix A.

The Proposed Change area is surrounded by a combination of residential and commercial receivers. The corresponding NCAs, approximate number of receivers and noise management levels (NMLs) are noted below in Table 4.2, Table 4.3, and shown in Figure 4.1.

ENHANCEMENT	NCA ID	APPROXIMATE	DESCRIPTION	RBL (dBA)		
SITE(S)		NUMBER OF RECEIVERS IN NCA		Day*	Evening*	Night*
Pearson Street bridge	10	6,141	The urban areas of western Wagga Wagga include industrial land uses located in the vicinity of the proposal site, with residential properties further from the rail corridor and in the west. Noise sources in this area include the Hume Highway, rail corridor and industrial areas of Wagga.	46	45	38
Wagga Wagga Station pedestrian bridge – including Cassidy Parade pedestrian bridge		5,922	The urban areas of eastern Wagga Wagga have industrial land uses located directly to the north and east of the proposal site; however, numerous residential properties are adjacent to the southern side of the rail corridor. Residential properties extend to the north and south at a greater distance. Noise sources in this area include the Hume Highway, rail corridor and industrial areas of Wagga Wagga and Bomen.	48	47	37

Table 4.2: NCAs and background noise information

Time periods defined as - Day: 7am to 6pm Monday to Saturday, 8am to 6pm Sunday; Evening, 6pm to 10pm; Night 10pm to 7am Monday to Saturday, 10pm to 8am Sunday

#### Table 4.3: NCAs and noise management levels

NCA ID	APPROVED		NENT LEVEL (NM OUT-OF-HOURS	SLEEP DISTURBANCE SCREENING	SLEEP AWAKENING REACTION		
	HOURS (RBL + 10 dBA)	DAYTIME (RBL + 5 dBA)*		NIGHT-TIME (RBL + 5 dBA)*	LEVEL (RBL +15 dBA or + 52 dBA)	LEVEL	
NCA 10	56	51	50	43	53	65	
NCA 11	58	53	52	42	52	65	

Time periods defined as - Day: 7am to 6pm Monday to Friday, 8am to 6pm Saturday; Out-of-hours day: 8 am to 6 pm Sunday and public holidays; Evening, 6pm to 10pm Monday to Sunday (including public holidays); Night 10pm to 7am Monday to Saturday, 10pm to 8am Sunday (including public holidays)

EIS CONSISTENCY ASSESSMENT REPORT (MINOR) CASSIDY PARADE AND PEARSON STREET UTILITY ADJUSTMENTS

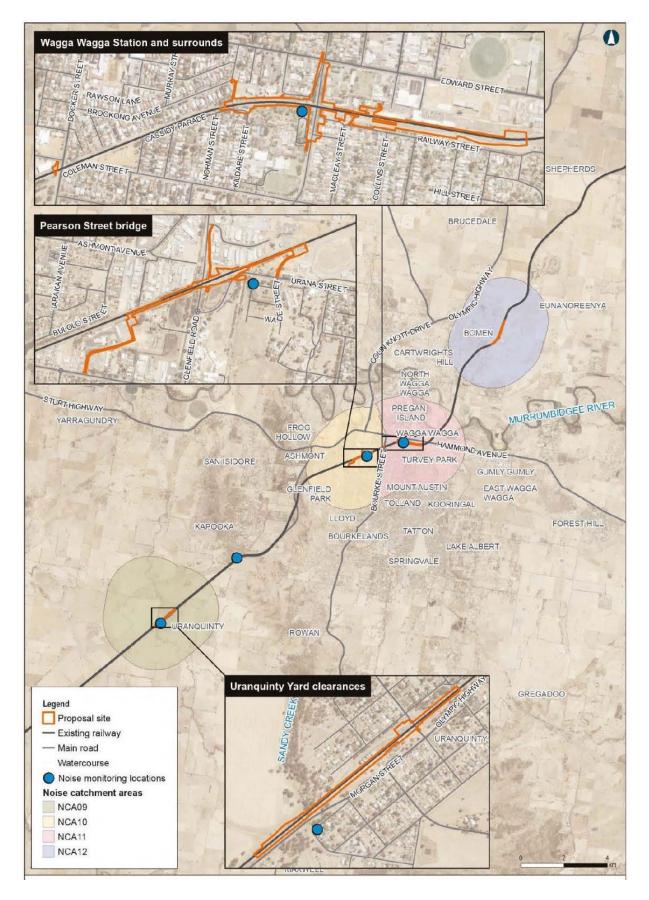


Figure 4.1: EAD showing location of NCAs at Pearson Street bridge and Cassidy Parade pedestrian bridge

#### 

### 4.3.3 Construction hours

Construction hours for the Cassidy Parade pedestrian bridge and Pearson Street bridge enhancement sites are as discussed in Section 2.5, with the following also noted:

#### Highly noise intensive works

'Highly noise intensive works' as per the Project Approval are defined as:

- use of power saws, such as used for cutting timber, rail lines, masonry, road pavement or steel work;
- grinding metal, concrete or masonry;
- rock drilling;
- line drilling;
- vibratory rolling;
- bitumen milling or profiling;
- > jackhammering, rock hammering or rock breaking;
- impact piling; and
- tamping (for rail Projects).

As outlined in Condition of Approval (CoA) E70, any highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken between:

- 8:00am to 6:00pm Monday to Friday;
- 8:00am to 1:00pm Saturday;
- ▶ If continuously, then not exceeding (3) hours, with a maximum cessation of work of not less than an hour.

#### **Out-of-hours work**

- In accordance with CoA E73, where out-of-hours work (OOHW) is required for:
- For carrying out work that if carried out during standard hours would result in a high risk to construction personnel or public safety based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2009: "Risk management; or
- Where the relevant roads authority has advised the Proponent in writing that carrying out the work during standard hours would result in a high risk to road network performance and a road occupancy licence will not be issued; or
- Where the relevant utility service operator has advised the Proponent in writing that carrying out the work during standard hours would result in a high risk to the operation and integrity of the utility network; or
- Work undertaken in a rail possession for operational or safety reasons.
- > This will be regulated through the OOHW Protocol except as permitted by an EPL.

#### **Predicted noise levels**

A summary of the predicted worst-case noise levels for each activity of the Proposed Change has been provided by the CNVIS (note the water relocation works (W.011) are no longer included in the scope of this CA), and includes the following:

#### Cassidy Parade pedestrian bridge

During approved daytime hours, 'highly intrusive' noise impacts noise impacts are predicted at the nearest residential receivers for all scenarios (W.013 to W.015). The highest noise levels and impacts would be experienced by adjacent receivers when noisy construction work is conducted nearby.



- Highly noise affected receivers are predicted in all scenarios except W.013. It is predicted that work from scenario W.015 will result in greatest number of receivers experiencing HNA levels.
- The nearest other sensitive receivers are predicted to experience 'highly intrusive' noise impacts during W.015. 'Moderately intrusive' impacts are predicted at other sensitive receivers for W.013 and W.014 during approved daytime and at W.014 during daytime out of hours periods.
- For work associated with W.014, 'highly intrusive' impacts are predicted at the nearest residential receivers during all assessment periods. The addresses of the residential receivers impacted by nighttime works are provided in Appendix D of the CNVIS.

#### Pearson Street bridge

- No 'highly intrusive' noise impacts are predicted for residential or other sensitive receivers for all Pearson Street bridge work scenarios (W.016 to W.020).
- 'Clearly audible' impacts are predicted at the closest residential and other sensitive receivers to the works during approved daytime hours.

Noise levels above the screening level for sleep disturbance and sleep awakening criteria are predicted for W.014. Sleep disturbance impacts would generally be caused by heavy vehicle movements and more noise intensive equipment. Where reasonable and feasible, these activities should be limited to the less sensitive periods to avoid noise impacts during more sensitive out-of-hours periods (refer to Section 8.0 of the CNVIS). The number of awakening events would depend on several factors, including the equipment being used, the duration of noisy work and the distance of the work to each residential receiver. Further detail around the specific OOHW, (e.g. duration and justification) must be identified in the OOHW permit, refer Section 2.4 of the CNVIS.

Review of the predictions shows that both the sleep disturbance screening level and sleep awakening reaction level are likely to be exceeded when night work occurs near residential receivers. It should be noted that sleep disturbance is only expected to occur during utility works (W.014) and will require outages during off-peak hours between 10pm – 5am. At this stage, these works are not expected to be undertaken for more than two consecutive nights, however further detail around the specific OOHW, (e.g. duration and justification) will be identified in the OOHW permit.

The receivers which would potentially be affected by sleep awakening impacts are generally the same receivers where 'moderately intrusive' and 'highly intrusive' night-time impacts have been predicted (refer to Appendix C of the CNVIS). These receivers may be eligible for respite offers (RO), agreements with owners (AO) or alternative accommodation (AltA), refer Section 8.3 of the CNVIS.

#### Additional affected sensitive receivers

Summaries of the additional receivers identified with potential for a NML exceedance, as a result of the Proposed Change works, are provided below in Table 4.4, Table 4.5, Table 4.6 and full summary provided in Appendix B.

SITE(S)	ACTIVITY	OVERVIEW OF NML EXCEEDANCES (DAYTIME)						
		1-10 dBA	11-20 dBA	>20 dBA				
	Utility works (Gas protection)	0	0	0				
Cassidy Parade pedestrian bridge	Utility works (Essential Energy)	14	6	2				
	Vegetation clearing	23	8	4				

#### Table 4.4: Additional residentials receivers with potential for NML exceedances

	Utility works (Gas & Water) – investigation and excavation	1	0	0
Pearson	Utility works (Water) – under bores	0	0	0
Street bridge	Utility works (Gas & Water) – cutovers & make good	1	0	0
	Utility works (Essential Energy)	0	0	0
	Vegetation Clearing	0	0	0

\*Additional receivers with potential for a NML exceedance are shown in **bold**.

#### Table 4.5: Additional other sensitive receivers with potential for NML exceedances

SITE(S)	ACTIVITY	OVERVIEW O	F NML EXCEEDANCES	(DAYTIME)
		1-10 dBA	11-20 dBA	>20 dBA
	Utility works (Gas protection)	0	0	0
Cassidy Parade pedestrian bridge	Utility works (Essential Energy)	4	6	0
	Vegetation clearing	2	8	2
	Utility works (Gas & Water) – investigation and excavation	0	1	0
Pearson	Utility works (Water) - under bores	0	1	0
Street bridge	Utility works (Gas & Water) – cutovers & make good	0	1	0
	Utility works (Essential Energy)	0	0	0
	Vegetation Clearing	0	0	0

\*Additional receivers with potential for a NML exceedance are shown in **bold**.

#### Table 4.6: Additional sensitive receivers with potential for NML exceedances during OOHW

SITE	ACTIVITY	RECEIVERS	OVERVIEW OF NML EXCEEDANCES (OOHW - NIGHTTIME)				
Cassidy	Utility works		1-5 dBA	6-15 dBA	16-25 dBA	>25 dBA	
Parade pedestria	(Essential Energy)	Residential	63	27	14	8	
n bridge		Other sensitive	0	0	0	0	

\*Additional receivers with potential for a NML exceedance are shown in **bold**.

#### Ground-borne noise

Ground-borne construction noise impacts from the Proposed Change are not anticipated as vibration intensive work with the potential to generate perceptible ground-borne noise, is not included in the scope of



work. Vibration intensive work for the Proposed Change will be completed outdoors meaning airborne noise levels at the nearest receivers are expected to be higher than the corresponding internal ground-borne noise levels.

Where airborne noise levels are higher than ground-borne noise levels it is not necessary to evaluate potential ground-borne noise impacts and as such, they have not been considered further in the CNVIS assessment.

#### Vibration impacts

The Proposed Change area at Pearson Street is adjacent to the Wagga Wagga Showground, Kyeamba Smith Hall & grands as shown in Figure 4.2. A large portion of the Proposed Change area in addition to the residential area surrounding Cassidy Parade pedestrian bridge is part of the Wagga Wagga Conservation Area. The Mount Erin Convent Chapel, High School, and Grounds is also adjacent to the Proposed Change as shown in Figure 4.3.

The minimum working distances for vibration intensive work, and as per the listed plant and equipment part of the scope of works, are listed below in Table 4.7 below.

PLANT ITEM	RATING/DESCRIPTION	MINIMUM DISTANCE				
		C	Cosmetic Damage			
		Residential and Light Commercial	Heritage Items	Industrial and Heavy	Human Response (NSW EPA Guideline)	
Small Hydraulic Hammer	300kg (5 to 12-tonne excavator)	2m	5m	1m	7m	
Medium Hydraulic Hammer	900kg (12 to 18-tonne excavator)	7m	15m	4m	23m	

As per the CNVIS, for most construction activities, the vibration emissions are intermittent in nature and for this reason, higher vibration levels occurring over shorter time periods are allowed.

#### Cosmetic damage assessment

One nearby commercial building (10 Cheshire St) has the potential to fall within the cosmetic damage minimum working distance for light commercial structures during W.016 at Pearson Street bridge. If the commercial building at 10 Cheshire St is classified as a Line 1-type item from BS 7385 Part 2 (reinforced or framed structure/industrial or heavy commercial structure) then the minimum working distance for cosmetic damage is 4m. The structure at 10 Cheshire St falls within the minimum working distance of 4m for reinforced or framed structure/industrial or heavy commercial structure. Figure 8 of the CNVIS depicting the minimum working distances for the small hydraulic hammer suggests that all receivers are beyond the minimum working distances for cosmetic damage. Therefore, the smaller, less vibration intensive hydraulic hammer will be prioritised where the required works can be feasibly and reasonably be completed with the smaller machinery.

Offset distances from specific vibration intensive plant to the nearest receivers and building construction should be confirmed before commencing vibration intensive work during construction.

Before commencement of any work, a structural engineer must undertake condition surveys of all building, structures, utilities and the like identified as being at risk of damage. For this CNVIS, conditions surveys (based on the medium hydraulic hammer) are required for:

10 Cheshire Street (Pearson Street works)



After completion of construction, condition surveys must be undertaken by a structural engineer of all items for which pre-condition surveys were undertaken.

The results of the surveys must be documented in a Condition Survey Report for each item surveyed. Copies of Condition Survey Reports must be provided to the landowners of the items surveyed, and no later than one month before the commencement of construction and three months following the completion of construction.

In accordance with CoA E122, property damage caused directly or indirectly by the construction or operation must be rectified at no cost to the owner. Alternatively, compensation may be provided for the property damage as agreed with the property owner.

#### Heritage structures

As per CoA E80, vibration testing must be undertaken before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. Advice must be sought on methods and locations for installing equipment as per CoA E81.

If other vibration intensive activities are required within minimum working distances to heritage structures, a building condition assessment should be undertaken of the heritage item/s to assess if they are considered to be sensitive to vibration prior to vibration work commencing.

#### **Buried pipework and utilities**

The CNVIS involves direct work on Gas, Water and Electrical utilities. This work will be undertaken in accordance with the asset owner's guidelines to ensure there are no adverse vibration impacts to the utilities. No other buried pipework or utilities have been identified in the CNVIS at risk of impact from construction vibration.

#### Human comfort assessment

Three commercial receivers have the potential to fall within the human comfort minimum working distances, with occupants of these buildings may be able to perceive vibration impacts at times when medium hydraulic hammers are in use nearby. Figure 8 of the CNVIS depicts the minimum working distances for the small hydraulic hammer suggests that all receivers are beyond the minimum working distances for human comfort. Therefore, the smaller, less vibration intensive hydraulic hammer will be prioritised where the required works can be feasibly and reasonably be completed with the smaller machinery.

#### **Cumulative impacts**

There is potential for cumulative construction impacts from multiple construction activities being completed in different areas of the Proposed Change.

As noted in the CNVIS, since the construction scenarios required for various stages of the Proposed Change would generally require similar items of equipment, concurrent construction work being completed near to a particular area could theoretically increase the worst-case noise levels in this report by around 3 dB (ie a logarithmic adding of two sources of noise at the same level).

The likelihood of worst-case noise levels being generated by two different work activities at the same time is considered low and rather than increase construction noise levels, the impact of concurrent work would generally be limited to a potential increase in the duration, and annoyance, of noise impacts on the affected receivers. In practice, construction noise levels in any one location would vary and would be frequently much lower than the worst-case scenario assessed due to construction staging moving work around within the study area and, in many cases, only a few items of equipment being used at any one time.

Feasible and reasonable steps will be taken to consult and coordinate with other construction Projects when they become aware of them and if they have the potential to impact the same receivers concurrently, to minimise cumulative impacts of noise and vibration and maximise respite for affected sensitive receivers (in accordance with CoA E72 and E83).



### 4.3.4 Conclusion

Feasible and reasonable management and mitigation measures will be implemented as required to minimise noise, vibration and cumulative impacts for the scope of works as per the Proposed Change.

All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

## 4.4 Non-Aboriginal heritage

#### 4.4.1 Existing environment

Potential non-Aboriginal heritage impacts were assessed within Chapter 11 of the EIS, Technical Paper 3 (Non-Aboriginal heritage) and the Wagga Wagga Non-Aboriginal Heritage Assessment (WWUNAHA, Ozark) (Appendix D).

The study area for EIS Technical Paper 3 (Non-Aboriginal heritage) included the length of the existing railway corridor from Albury to Illabo, with a specific focus on the 14 enhancement sites, including heritage items and conservation areas within and in the vicinity of the enhancement sites that could be directly or indirectly impacted by the Project.

The Proposed Change intersects or is adjacent to the curtilage for the heritage items listed in Table 4.8 and shown in Figure 4.2 and Figure 4.3.

NAME	HERITAGE LISTING	ENHANCEMENT SITE	DISTANCE FROM PROPOSED CHANGE
Wagga Wagga Heritage Conservation Area (WWHCA)	LEP listed heritage	Cassidy Parade pedestrian bridge	Within curtilage (partially)
Cassidy Parade pedestrian bridge	ARTC s170	Cassidy Parade pedestrian bridge	Adjacent
Wagga Wagga Showground, Kyeamba Smith Hall & grands	LEP item I246	Pearson Street bridge	Immediately adjacent

Table 4.8: Heritage items that intersect or are adjacent to the Proposed Change



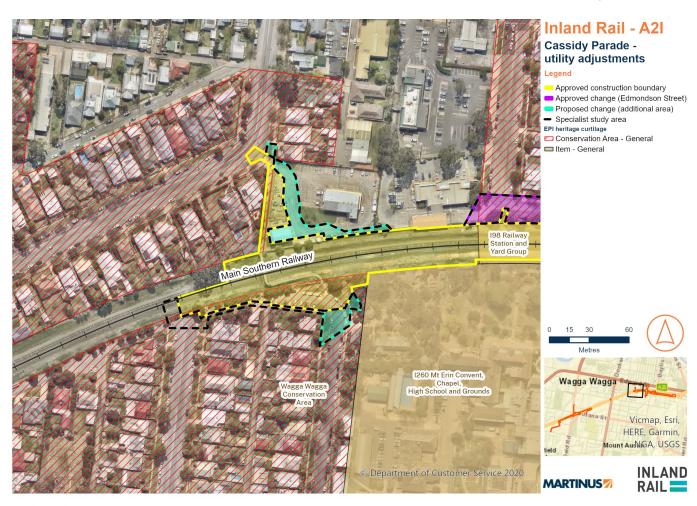


Figure 4.2: Heritage items/curtilages that intersect or are adjacent to the Proposed Change at Cassidy Parade



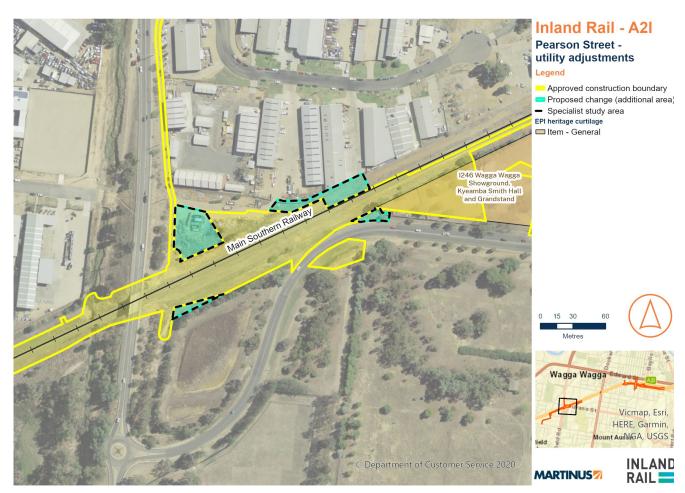


Figure 4.3: Heritage items/curtilages that intersect or are adjacent to the Proposed Change at Pearson Street

### 4.4.2 Impact assessment

#### Interaction with Wagga Wagga Heritage Conservation Area

The EIS concluded that the Project would have an overall minor impact to the heritage significance of the conservation area. Interaction with the WWHCA is marginally increased on the northern side of the rail line on Brookong Avenue and is increased on the southern side of the rail line along Cassidy Parade. The Proposed Change interacts with the WWHCA, as scope of works include the installation of a gas protection slab. As noted in the WWHCA, it is not considered that the works proposed within the CIZ extension would negatively impact on the heritage characteristics of the WWCHA. As noted in Section 4.3.2, two properties in the WWHCA (1 Norman Street (garage) and 2 Kildare Street) have the potential to fall within the cosmetic damage minimum working distance.

#### Cassidy Parade pedestrian bridge

As per the WWUNAHA, the Cassidy Parade pedestrian bridge has already been approved for removal and so no further consideration to this listed heritage site is considered necessary.

#### Wagga Wagga Showground, Kyeamba Smith Hall & grands (I246)

The EIS concluded that the Project would have an overall negligible impact on the showground. As noted in the WWUNAHA, the CIZ extension abuts the curtilage of the showground, this portion of item I246 is within the existing approved CIZ. The proposed CIZ extension would not increase impact to the heritage values of this listed site.

#### 

### 4.4.3 Conclusion

The Proposed Change involves disturbance of the ground through under boring and trenching, and vegetation trimming and removal.

Some of these works are partially located within Local Environmental Plan (LEP) curtilages as noted above. However, the Proposed Change avoids all heritage fabric, archaeological deposits and any values identified in the significance documentation attached to the listings and are confined to areas that have been previously disturbed as identified in the WWUNAHA.

Therefore, the Proposed Change scope of works would not result in an increase on the level of impact assessed as part of the A2I EAD and would not impact the Project's ability to comply with relevant conditions of approval or updated management measures.

The WWUNAHA makes recommendations to be adhered to during the construction works. All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

## 4.5 Biodiversity

#### 4.5.1 Existing environment

The subject area is located in the NSW South-western Slopes bioregion, including the Lower slopes and Inland slopes subregions. The Proposed Change is located within or adjacent to the existing rail corridor in areas that have been predominantly cleared. The landscape in the area surrounding the proposal has been heavily fragmented by development, with existing habitat connectivity limited to creek lines and road reserves.

Native vegetation in NSW is classified using the Plant Community Type (PCT) classification system, approved by the NSW Plant Community Type Control Panel and described in the BioNet Vegetation Classification Database (DPIE, 2021).

#### Vegetation

A Biodiversity Assessment Report Memo (BARM, East Coast Ecology) (Appendix E) was undertaken for which includes the Proposed Change scope of works. The BARM has identified vegetation within the Proposed Change area to consist of mature trees, landscaped gardens, and council managed green spaces adjacent to rail corridor and are described as:

- Miscellaneous ecosystems Ornamental Plantings (MEOP)
  - With historical and ongoing residential and community use at Cassidy Parade pedestrian bridge, vegetation is comprised of ornamental native and exotic species planted for aesthetic purposes and was therefore determined to have limited ecological function. MEOP includes areas that are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits, as noted in the BARM.
  - MEOP's extent is approximately 0.40 ha across the 3 sites assessed in the BARM, with 0.004 ha at Pearson Street bridge enhancement site and 0.036 ha at Cassidy Parade pedestrian bridge enhancement site.
- Miscellaneous ecosystems Highly Disturbed area with no or limited Native Vegetation (MEHD)
  - Due to a long history of disturbance from agricultural, infrastructure (rail and road) and industrial use at Pearson Street, vegetation is comprised of no or limited native species and is dominated by exotic species and provides limited ecological function. MEHD includes areas that are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits, as noted in the BARM.
  - MEHD's extent is approximately 0.41 ha across the 3 sites assessed in the BARM, with 0.24 ha at Pearson Street bridge enhancement site and 0.01 ha at Cassidy Parade pedestrian bridge enhancement site.

#### 

#### **Threatened flora**

As noted in the BARM, BioNet and Protected Matters Search Tool (PMST) searches revealed ten threatened flora species occur, or have the potential to occur, within a 5km radius of the Proposed Change area. The BARM determined that habitat is substantially degraded that all potential flora species are unlikely to occur within the Proposed Change area.

#### Threatened fauna

As noted in the BARM, BioNet and PMST searches revealed thirty-three threatened fauna species occur, or have the potential to occur, within a 5km radius of the Proposed Change area.

The degraded vegetation within the Proposed Change area would only provide low-quality foraging habitat for threatened species. There was no breeding habitat identified (in the form of hollow-bearing trees, rocky outcrops/ caves, waterbodies, large trees or human-made structures). Due to the absence of suitable habitat constraints and/ or the degraded nature of potential habitat and historical clearing, it was determined that the habitat is substantially degraded such that potential threatened fauna are unlikely to utilise the Proposed Change area.

#### **Migratory species**

As noted in the BARM, database searches revealed eight migratory terrestrial species, or their habitat, are known to occur within the Proposed Change area. These species are unlikely to occur due to the lack of suitable habitat in the Proposed Change area (i.e. ornamental tree dominated) and these species do not breed in Australia.

#### 4.5.2 Impact assessment

All vegetation proposed for removal provides low-quality foraging habitat for threatened fauna. Within the context of the surrounding landscape, it is unlikely this vegetation would be utilised given the presence of superior habitats adjoining the Proposed Change, and in the broader landscape. Further, it is considered unlikely that any threatened species would occupy the additional area for the Proposed Change area due to evidence of ongoing disturbance (railway, roads, residential housing). As such, no threatened flora or fauna are likely to be significantly impacted.

#### 4.5.3 Conclusion

The Proposed Change at Pearson Street bridge will require the removal/ trimming of:

- 0.004 ha of MEOP; and
- 0.24 ha of MEHD.

The Proposed Change at Cassidy Parade pedestrian bridge will require the removal/ trimming of:

- 0.036 ha of MEOP; and
- 0.01 ha of MEHD.

There would be no impacts to threatened species, populations or ecological communities are expected as a result of the Proposed Change. Although outside the assessed construction boundary for the Project, the biodiversity impacts are considered consistent with the initial assessment (WSP, 2023), and no further offsets (ecosystem or species) would be required subject to the implementation of the mitigation measures outlined in the CoA and RTS Appendix B Updated Mitigation Measures.

All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

## 4.6 Flood risk

#### 4.6.1 Existing environment

The Proposed Change area is located within the Murrumbidgee catchment of the Murray-Darling Basin. The Murrumbidgee catchment extends from the Kosciuszko National Park in eastern NSW to Balranald in western NSW, with inflows primarily sourced from the Great Dividing Range. Glenfield drain (a tributary of Flowerdale Lagoon) is located approximately 70m from the Proposed Change area at Pearson Street (EIS, Chapter 18). There are no watercourses located within the Proposed Change areas.

The frequency of flood events is generally referred to in terms of their annual exceedance probability (AEP). For example, for a 5% AEP flood, there is a five per cent probability (or a one in 20 chance) that there would be floods of a greater magnitude in any given year. For a 1% AEP flood, there is a one per cent probability (or a one in 100 chance) that there would be floods of greater magnitude each year. The probable maximum flood (PMF) is the largest flood that could be expected to occur at a particular location, usually estimated from probable maximum precipitation.

#### 4.6.2 Impact assessment

The Proposed Change areas are located within flood prone land, with existing flood conditions shown in Table 4.9 below.

ENHANCEMENT SITE	EXISTING FLOOD CONDITIONS	DRAINAGE	FLOOD RISK WITHIN AND AROUND THE ENHANCEMENT SITE FOR EVENTS UP TO THE 1% AEP	PMF FLOOD DEPTH
Pearson Street bridge	No flooding relevant to Proposed Change area <sup>1</sup>	Concrete culvert at Chainage 523.52 km Overland flow path south of the rail corridor flowing towards a council operated basin.	Not affected	Up to 0.7m in overland flooding events
Cassidy Parade pedestrian bridge	Peak flood depth of 0.15-0.3m within the rail corridor in the 1% AEP. Rail corridor within the study area categorised as 'flood storage' and 'floodway' in the 1% AEP.	No formal drainage infrastructure	5% AEP and greater events	Greater than 0.75m in overland flooding events.

Table 4.9: Existing flood conditions

Construction activities on flood-prone land, including earthworks, concrete works, compounds, stockpiles, have the potential to temporarily affect flooding behaviour. Without the implementation of appropriate management measures, potential impacts include:

> cause damage to construction sites, machinery, plant and equipment

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<sup>&</sup>lt;sup>1</sup> EIS describes overland flooding depth of up to 1m within the rail corridor to the west of the rail line from Glenfield Drain in the 1% AEP. Glenfield Drain is located approximately 70m from the Proposed Change.



- detrimentally impact downstream watercourses through increased flow rates in drainage lines, changes in scour, bank erosion and transport of sediments
- obstruct the passage of floodwater and overland flow, which could exacerbate existing flooding conditions and pose a safety risk to the public.

Considering the limited duration and scope of the works (estimated 6 months for total Project scope at Cassidy Parade pedestrian bridge and Pearson Street bridge), the limited peak flood depth of 0.15-0.3m within the rail corridor in a 1% AEP and the existing elevation of the areas adjacent to the rail corridor within the Proposed Change area no significant impacts to flood behaviour are anticipated for events up to and including the 1% AEP.

## 4.6.3 Conclusion

Construction activities at the Proposed Change areas would be short term and would be prepared with consideration of flooding behaviour. Where temporary obstruction of overland flows or drainage systems cannot be avoided, further consideration of flood risk would be undertaken to develop the staging of works to ensure proper management of a flood event at all stages of construction. The Proposed Change area has been designed to minimise the duration of onsite work, which would enable increased flexibility when scheduling works around forecast rain periods (EIS, Chapter 8).

Considering the limited duration and scope of the works, the limited peak flood depth of 0.15-0.3m within the rail corridor in a 1% AEP, and the existing elevation of the areas adjacent to the rail corridor within the Proposed Change area, no significant impacts to flood behaviour are anticipated for events up to and including the 1% AEP which is consistent with the flood risk/behaviour of the approved works.

All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

## 4.7 Soils and contamination

### 4.7.1 Existing environment

The Proposed Change area is located within the Wagga Wagga precinct at an elevation of about 190 to 200 m Australian Height Datum (AHD) at the south of the Murrumbidgee River. The topography generally slopes to the north to the Murrumbidgee River; however, there are localised high points along the Olympic Highway that drain to various tributaries of the Murrumbidgee River (EIS, Chapter 20).

Existing soil characteristics within the Proposed Change area are shown in Table 4.9 below.

ENHANCEMENT SITE	LANDSCAPE	SOIL	CHARACTERISTICS
Pearson Street bridge	Becks Lane soil landscape	Moderately deep red and brown Cromosols and Dermosols.	High erosion hazard, acidity and localised foundation hazard
Cassidy Parade pedestrian bridge	Becks Lane soil landscape Lloyd soil landscape to the eastern end of the site	Moderately deep red and brown Chromosols and Dermosols. Eastern end of the site likely comprises red Chromosols and brown Sodosols.	High erosion hazard, steep slopes, localised foundation hazards and mass movement, stoney and strongly acid soils on ridges and upper slopes.

#### Table 4.10: Existing soil characteristics

#### Saline soils

The Proposed Change area is located on land mapped as having 'low' land salinity hazard at Cassidy Parade pedestrian bridge and 'moderate' land salinity hazard at Pearson Street.

#### Acid sulfate soils

The Proposed Change area is located within areas described as low probability of acid sulfate soils (ASS).

#### Contamination

The Proposed Change area is located within an existing rail corridor, which is considered to contain a general level of risk associated with contamination from historical development and activities associated with its operation. A range of sites adjacent to the rail corridor that would be considered to have associated contaminated risk were identified, including agricultural land.

The sources for these general contamination risks include:

- > fill used in construction of the existing rail line, which may be contaminated
- weed-suppression activities
- buildings potentially containing hazardous materials
- rail line ballast potentially containing heavy metals and other contaminants
- > contamination from maintenance activities undertaken at sidings and near silos or other areas
- use of chemicals on agricultural land
- > machinery storage and maintenance, refuelling and spray rig filling, agricultural sheds and silos

Pearson Street is located in the proximity of several Areas of Environmental Concern (AEC), with no AECs located in the proximity of Cassidy Parade. Description of the AEC and potential contaminants of concern are presented in Table 4.11, with their locations shown in Figure 4.4 and Figure 4.5.

Table 4.11: Description of	of AEC and note	ntial contaminants	of concern
Table 4.11. Description	JI ALC and pole		of concern

ENHANCEMENT SITE	AEC	DESCRIPTION OF AEC	POTENTIAL CONTAMINANTS OF CONCERN
Pearson Street bridge	AEC 32	Wagga Wagga Showground campground; storage of unknown minor chemicals	Heavy metals, OCPs and OPPs
	AEC 33	Potential ACM on the ground surface and fill containing anthropogenic material	TRH, BTEX, PAHs, asbestos, lead containing dust and/or paint
	AEC 34	Former council depot, storage of unknown chemicals or fuel, machinery maintenance	TRH, BTEX, PAHs, heavy metals and/or asbestos
Wagga Wagga, Edmondson St, Cassidy Parade	AEC 35	Potential ACM on the ground surface	TRH, BTEX, PAHs, asbestos, lead containing dust and/or paint
	AEC 36	Former District Engineers Office	TRH, BTEX, PAHs, PFAS and asbestos
	AEC 37	workshop and branch depot and former gang shed	TRH, BTEX, PAHs, PFAS and asbestos

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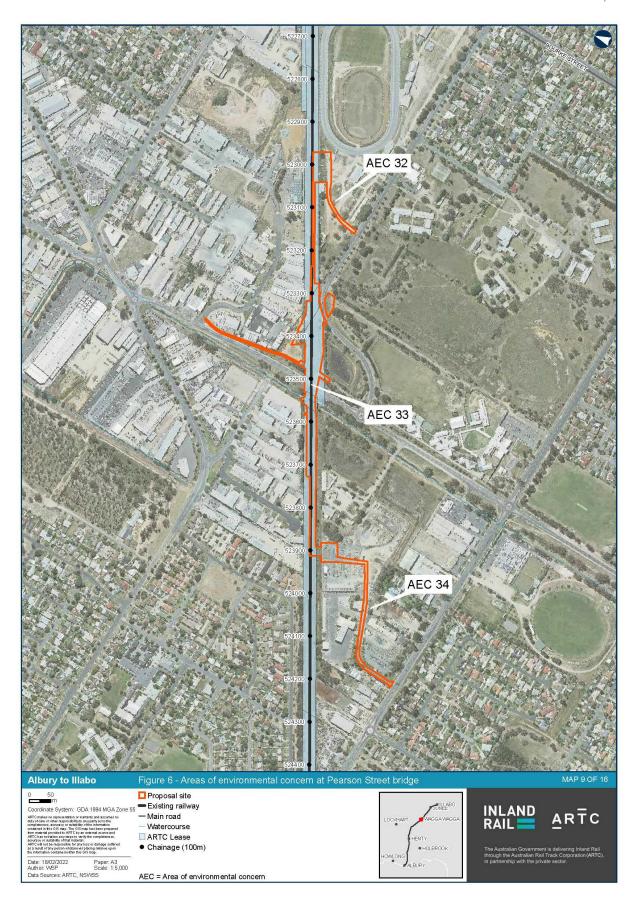


Figure 4.4: EAD showing location of AECs at Pearson Street

ARTC



Figure 4.5: EAD showing location of AECs at Cassidy Parade

#### 

### 4.7.2 Impact assessment

Excavation and ground disturbance activities would expose and disturb soils. If not adequately managed, this could result in (EIS, Chapter 20):

- erosion of exposed soil and stockpiled materials
- dust generation
- an increase in sediment loads entering the stormwater system and/or local runoff, and, therefore, nearby receiving waterways
- increase in salinity levels in soil
- ASS conditions
- mobilisation of contaminated sediments, with resultant potential for environmental and human health impacts

#### Soil erosion

Construction would temporarily expose the natural ground surface and sub-surface through the removal of vegetation, overlying structures (such as existing roads) and excavation. The exposure of soil to runoff and wind can increase soil erosion potential; particularly, where construction activities are undertaken in soil landscapes characterised by dispersive soils, given their susceptibility to erosion.

The potential for erosion impacts would be minimised by implementing standard best-practice soil erosion management measures during construction and risks associated with dust are discussed further in Section 4.8.

#### Saline soils

Excavation of salt-affected soil from deeper horizons are likely to lead to an increase in salinity presence at the surface. Excavation of these areas are likely to disrupt the existing aboveground and sub-surface drainage patterns, allowing salts to be brought to the surface in seeps or to accumulate in zones of evaporation. Soil disruption associated with excavations or cuttings into the landscape for the proposal, footings, construction compounds, bridges or levelling purposes are potential activities that could lead to increased salinity risk.

The works in the Proposed Change area are surface activities (clearing and grubbing) and at a shallow depth above the groundwater table 1.3-2.5m Below Ground Level (mBGL) (utilities and drainage). The required excavation for the utility works is minimal compared to the full scope of works (track lowering) assessed in the EAD and within areas subject to extensive prior disturbance from historical development of the rail corridor. As such, the Proposed Change is considered to have minimal impact on the salinity risk at the Pearson Street site.

The potential for impacts due to the presence of saline soils would be managed by site-specific salinity assessments.

#### Contamination

There is a general contamination risk present within the Proposed Change area, based on the general setting within an existing rail corridor and land uses that occur in and adjacent to the area.

As noted in the EIS (Chapter 20), the risk of contamination within the Proposed Change area is considered to be low within the context of the continuing railway land use; however, some discrete areas of medium risk have been identified, such as areas of waste within the rail corridor, fill used in the construction of the existing rail line and structures containing hazardous materials (such as lead paint and asbestos).

Based on the intensity of historical activities observed within the rail corridor, including the presence of operational facilities, development in the surrounding area, and the Proposed Change area's proximity to the



Wagga Wagga train station, the Proposed Change area is considered to have a higher likelihood of contamination being present.

A Sampling, Analysis, and Quality Plan (SAQP) is currently being developed for all sites across the alignment and would be utilised to inform the scope of any site investigations required.

#### 4.7.3 Conclusion

Construction activities at the Proposed Change area would be short term and would be prepared with consideration of the existing soils and contamination characteristics of the area.

All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

### 4.8 Air quality

### 4.8.1 Existing environment

Regional air quality is mainly influenced by rural activities, industrial activities, vehicle emissions, railway operations, power generation, waste management and extraction activities. Dust from paved and unpaved roads, and domestic solid and liquid fuel burning in the region, also contribute to the local air shed.

As noted in the EIS (Chapter 22), air quality data has been sourced from the Wagga Wagga North monitoring station, with the results summarised in Table 4.12 below, alongside the air quality impact assessment criterion for each pollutant specified in the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (NSW EPA, 2016).

MONITORING STATION	POLLUTANT	AVERAGING PERIOD	AIR QUALITY IMPACT			YEAR*		
			ASSESSMENT CRITERIA	2016	2017	2018	2019	2020
Wagga Wagga North	PM <sub>10</sub> (g/m <sup>3</sup> )	Maximum 24- hour average	50	114.7	171.6	127.2	251.7	259.4
		Annual average	25	20.7	20.4	26.9	34.7	21.9
	PM <sub>2.5</sub> (g/m <sup>3</sup> )	Maximum 24- hour average	25	Not available	40.8	90.2	129.4	559.5
		Annual average	8	Not available	8.5	8.9	11.0	12.9

#### Table 4.12: Background air quality (2016 to 2020)

\*Exceedances of the air quality impact assessment criteria as shown in **bold**.

#### 4.8.2 Impact assessment

#### Dust emissions

The following activities have the potential to generate dust during construction:

- vegetation clearing and grubbing
- installation of temporary infrastructure and site compound
- earthworks such as rail formation works
- civil works at road and pedestrian bridges



- dirt, mud, or other materials tracked onto a paved public roadway by a vehicle leaving a construction site (generally referred to as egress)
- erosion of unsealed surfaces
- > materials handling and loading at laydown areas, and vehicle movements on unsealed roads/surfaces

The UMMs outlined in the EAD will be implemented to minimise the risk of impacts to air quality during the Proposed Change.

#### 4.8.3 Conclusion

The Proposed Change impacts to air quality have been deemed as negligible to high prior to any mitigation measure implementation (EIS, Chapter 22). Following the implementation of appropriate mitigation measures, the residual air quality impacts would be reduced to negligible to low risk and short-term.

All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

### 4.9 Landscape and visual

#### 4.9.1 Existing environment

The Proposed Change area is located at the boundary of the upper slopes of the South-western Bioregion, characterised by steep, hilly and undulating ranges and granite basins, with open forests and woodlands.

A feature of the landscape and visual catchment across the Proposed Change area, includes the operational rail corridor of the Main South Line. This corridor has largely been cleared of native vegetation and generally consists of grassland with a few scattered trees.

#### 4.9.2 Impact assessment

#### Landscape character

Landscape character impacts will occur, primarily due to the scale of the works occurring during construction and/or due to the higher sensitivity of the landscape character unit, such as:

- Construction work within and external to the rail corridor, which requires the trimming and removal of vegetation, local diversions and temporary impacts to areas of open space;
- Construction work within non-Aboriginal heritage sites, such as Wagga Wagga Conservation Heritage Area (Section 4.4 details impacts to non-Aboriginal heritage items and sites).

The landscape character impact for the Proposed Change area is noted as moderate adverse for the Cassidy Parade pedestrian bridge landscape and negligible for the Pearson Street bridge landscape (EIS, Chapter 17).

#### Viewpoints

The Proposed Change area at Pearson Street bridge would result in negligible visual impacts to the viewpoint east from Pearson Street and West from Urana Street. At Cassidy Parade, the Proposed Change area would result in moderate adverse visual impacts to the viewpoint northwest from Cassidy Parade, and a minor adverse impact to the viewpoint South from Brookong Street (EIS, Chapter 17).

#### 4.9.3 Conclusion

Impacts to landscape character (excluding non-Aboriginal heritage) and viewpoints are considered to be short-term and minor with the implementation of appropriate mitigation measures as outlined in the CoA and UMMs.



For a detailed consideration on the impact of the Proposed Change area to non-Aboriginal heritage items and sites refer to Section 4.4.

All applicable mitigation measures in the CoAs and UMMs will be implemented, with any identified additional mitigation measures outlined in Table 4.14.

### 4.10 Matters of national environmental significance

As discussed in Section 1.1, the A2I Project was referred to the Australian Government Minister for the Environment under the EPBC Act due to potential for impacts on protected matters on 2 June 2020 (EPBC Referral No 202/8670). On 29 June 2020, DAWE notified that the proposal is not a controlled action, and hence approval under the EPBC Act is not required.

The Proposed Change is considered against matters of national environmental significance and impacts on Commonwealth land in accordance with the EPBC Act in Table 4.13, which determined that there would be no impacts on matters of national environmental significance and no referral is required.

FACTOR	IMPACT (YES/NO)	IMPACT DESCRIPTION
Any impact on a World Heritage property?	No	The Proposed Change would not have a direct or indirect impact on any World Heritage property.
Any impact on a National Heritage place?	No	The Proposed Change would not have a direct or indirect impact on any National Heritage place.
Any impact on a wetland of international importance?	No	The Proposed Change would not have a direct or indirect impact on any wetlands of national importance.
Any impact on a listed threatened species or communities?	No	The Proposed Change would not have a direct or indirect impact on listed threatened species or communities. The results from the site assessment, including targeted flora surveys and habitat assessment, were used to assess each species' likelihood of occurrence within the Subject Land. After carrying out the assessment, the assessor determined that the habitat is substantially degraded such that all potential threatened flora species are unlikely to occur within the Subject Land would only provide low-quality foraging habitat for threatened species. There was no breeding habitat identified (in the form of hollow-bearing trees, rocky outcrops/ caves, waterbodies, large trees or human-made structures). Due to the absence of suitable habitat and historical clearing, it was determined that the habitat is substantially degraded such that and historical clearing, it was determined that the habitat is substantially degraded such that potential threatened fauna are unlikely to utilise the Subject Land. All vegetation proposed for removal provides low-quality foraging habitats adjoining the Subject Land, and in the broader landscape. Further, it is considered unlikely that any threatened species would occupy the Subject Land due to evidence of ongoing disturbance (railway, roads, residential housing). As such, no threatened flora or fauna are likely to be significantly impacted.
Any impacts on listed migratory species?	No	Database searches undertaken as part of the BARM (Appendix E) revealed eight migratory terrestrial species, or their habitat, are known to occur within a five (5) kilometre buffer of the Proposed Change. The biodiversity assessment concludes that 'these species are unlikely to occur and do not breed in Australia'.

Table 4.13: Matters of national environmental significance

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FACTOR	IMPACT (YES/NO)	IMPACT DESCRIPTION
		Therefore, the Proposed Change would not have a direct or indirect impact on any listed migratory species.
Any impact on a Commonwealth marine area?	No	The Proposed Change would not have a direct or indirect impact on a Commonwealth marine area.
Does the proposal involve a nuclear action (including uranium mining)?	No	The Proposed Change does not relate to a nuclear action.
Additionally, any impact (direct or indirect) on Commonwealth land?	No	The Proposed Change is not located in proximity to and would not have any direct or indirect impact on, any Commonwealth land, as per a review of the publicly available 'Commonwealth Owned Land' dataset provided by the Commonwealth Department of Finance (dated 27 August 2024).

### 4.11 Environmental management measures

The UMF (Table D-5) specifies a number of example mitigation measures. These mitigation measures have been superseded by the Project CoAs and UMMs. Table 4.14 outlines any changes to relevant CoAs and UMMs, called EMMs in this document, that will be implemented as additional management measures for the Proposed Change.

Table 4.14	Additional	Mitigation	Measures
10010 4.14	Additional	miligation	Measures

ASPECT	NATURE AND EXTENT OF	PROPOSED	MINIMAL	ENDOR	SED
	IMPACTS (NEGATIVE AND POSITIVE) DURING CONSTRUCTION (IF CONTROL MEASURES IMPLEMENTED) OF THE PROPOSED CHANGE, RELATIVE TO THE APPROVED PROJECT	CONTROL MEASURES IN ADDITION TO PROJECT COA AND UMM	IMPACT YES/NO	Yes/No	Comments
Traffic and transport	The Proposed Change's scope of works would not result in an increase in the level of impact assessed as part of the A2I EAD and would not impact on the Project's ability to comply with relevant CoAs and UMMs.	No additional mitigation measures required.	Yes		
Noise and vibration	The Proposed Change scope of works would not result in an increase on the level of impact assessed as part of the A2I EAD and would not impact on the Project's ability to comply with relevant CoAs and UMMs.	No additional mitigation measures required.	Yes		
Non- Aboriginal heritage	Following implementation of all relevant CoAs, UMMs and mitigation measures as per WWUNAHA, the Proposed Change will not inadvertently impact non- Aboriginal heritage.	No additional mitigation measures required.	Yes		
Biodiversity	There would be no impacts to threatened species, populations or ecological communities are expected as a result of the Proposed Change. Although outside the assessed	No additional mitigation measures required.	Yes		



	construction boundary for the Project, the biodiversity impacts are considered consistent with the initial assessment (WSP, 2023), and no further offsets (ecosystem or species) would be required subject to the implementation of the mitigation measures outlined in the CoA and RTS Appendix B Updated Mitigation Measures.			
Flood risk	No significant impacts to flood behaviour are anticipated for events up to and including the 1% AEP.	No additional mitigation measures required.	Yes	
Soils and contamination	No changes from approved project.	No additional mitigation measures required.	Yes	
Air quality	The residual air quality impacts would be negligible to low risk and short-term.	No additional mitigation measures required.	Yes	
Landscape and visual	Impacts to landscape character, viewpoints, and night-time visuals are considered to be short-term and minor.	No additional mitigation measures required.	Yes	



### 5 Consistency Assessment

Table 5.1 presents a set of questions that assist Inland Rail to determine whether the Proposed Change can be considered consistent with the Minister's approval.

#### Table 5.1: Consistency questions

CONSISTENCY QUESTION	DISCUSSION	CONSISTENT
Q1) Are the proposed works being carried out as part of an approved Project? E.g. Are works "generally in accordance with" Project documents and plans, where relevant?	As considered throughout this document, the Proposed Change is being carried out in accordance with the EAD, particularly the UMF, which involves adjustment and relocation of utilities.	Yes
Q2) Is the modification such a radical transformation of the Project as a whole, as to be, in reality, an entirely new Project? Note: If answered Yes, a new Project application may be required.	The Proposed Change does not constitute a modification, is not a radical transformation of the Project as a whole and is not an entirely new Project.	Yes
Q3) Are the proposed works a modification that is considered "consistent with" the Project as approved? This will require the work in question to have environmental impacts contemplated by the approval (such as EA / EIS, CEMP, spoil management plan, heritage management plan or the like), including documents forming part of the approval, or as a minimum, very few additional impacts.	The Proposed Change, as considered in Chapter 2 is considered "consistent with" the Infrastructure Approval. The Proposed Change is considered to be consistent with the impacts contemplated by the EAD outlined in CoA 1 of the Infrastructure Approval.	Yes
Q4) When considering all previous consistency assessments and the potential cumulative impacts, are the proposed works still considered "consistent with" the Project as approved?	The Proposed Change is considered "consistent with" the Project, including any potential cumulative impacts and the EIS Consistency Assessment Report (Minor) Edmondson Street Utility Adjustments (MR, January 2025). Any subsequent consistency assessments would be subject separate consideration for potential cumulative impacts.	Yes



### 6 Monitoring and Reporting

There are no further monitoring or reporting required as a result of the Proposed Change.

### 7 Conclusion

Based on the consistency assessment in this report, the Proposed Change is considered:

- Consistent with the Ministers Conditions of Approval, and the Updated Mitigation Measures.
- □ Not consistent with the Ministers Conditions of Approval, and the Mitigation Measures. A modification to the Project approval must be prepared and submitted to the Department of Planning Infrastructure and Environment for approval.

#### 

### 8 Certification

### Author

This consistency assessment provides a true and fair review of the Proposed Change for the Inland Rail – Albury to Illabo Project.

Name:	Signature:
Simon Fisher	Q
Position:	Date:
Environment Lead (A2I)	05/05/2025
Organisation:	05/05/2025

### **Inland Rail**

The Proposed Change, subject to the implementation of all the environmental requirements of the Project, is consistent with the Division 5.2 approval.

Name:	Belinda Jones	Signature:	Belinda Jones
Position:	Head of Program Environment	Date:	07/05/2025
Organisat	ion: IRPL		
Name:		Signature:	
Position:		Date:	
(Manager)			
Organisat	ion:		

I have examined the Proposed Changes by reference to the Division 5.2 approval in accordance with Section 5.25(2) of the EP&A Act. I consider that the proposal is consistent with the Division 5.2 approval.

I agree / **Example 1** with the recommendations of the [Insert above signatory e.g. PEL] and approve **Example 1** of the carrying out the Proposed Change in accordance with those recommendations.



### **Appendix A Construction Noise and Vibration Impact Statement**

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# ₩SLR

## A2I | Albury to Illabo – Wagga Wagga Utility Work

### **Construction Noise and Vibration Impact Statement**

### **Martinus Rail**

1/23-27 Waratah Street, Kirrawee, NSW 2232

Prepared by:

### **SLR Consulting Australia**

Tenancy 202 Submarine School, Sub Base Platypus, 120 High Street, North Sydney NSW 2060, Australia

SLR Project No.: 610.031317.00001

Client Reference No.: R08

9 April 2025

Revision: v1.5

Making Sustainability Happen

### **Revision Record**

Revision	Date	Prepared By	Checked By	Authorised By
v1.5	9 April 2025	Adam Sirianni	Steven Luzuriaga	S-
v1.4	28 March 2025	Adam Sirianni	Steven Luzuriaga	S-
v1.3	10 March 2025	Adam Sirianni	Steven Luzuriaga	S-
v1.2	28 February 2025	Adam Sirianni	Steven Luzuriaga	A -
v1.1	6 January 2025	Brandon Nguyen Khuong	Steven Luzuriaga	S-
v1.0	19 December 2024	Brandon Nguyen Khuong	Steven Luzuriaga	S-

### **Basis of Report**

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Martinus Rail (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

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- Appendix B Modelling Scenarios and Equipment
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### **Acronyms and Abbreviations**

AA	The Acoustics Advisor for the CSSI approved by the Planning Secretary
A2I	Albury to Illabo section of the Inland Rail project
ARTC	Australian Rail Track Corporation
AS	Australian Standard
AV:ATG	Assessing Vibration: a technical guideline (DEC, 2006)
BS	British Standard
dBA	A-weighted decibel (referenced 20 µPa)
DPHI	Department of Planning, Housing and Infrastructure
CCHMP	Construction Cultural Heritage Management Plan
CEMP	Construction Environmental Management Plan
CNVF	Inland Rail NSW Construction Noise and Vibration Framework
CNVMP	Construction Noise and Vibration Management Plan
CSSI	Critical Stage Significant Infrastructure
DEC	Department of Environment and Conservation
DECC	Department of Environment and Climate Change (now NSW EPA)
DIN	Deutches Institut für Normung (German Institute for Standardisation)
EIS	Environmental Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	Environment Protection Authority
EPL	Environmental Protection Licence
ER	The Environmental Representative(s) for CSSI approved by the Planning Secretary.
HNA	Highly Noise Affected
Hz	Hertz
ICNG	Interim Construction Noise Guideline (DECC, 2009
IR	Inland Rail
ISO	International Standards Organisation
km	Kilometres
km/h	Kilometres per hour
LAeq	Equivalent continuous noise level, providing a representation of the cumulative level of noise exposure over a defined period.
LAeq(15hour)	The equivalent continuous noise level for the 15-hour daytime period of 7.00 am to 10.00 pm
LAeq(9hour)	The equivalent continuous noise for the 9-hour night-time period of 10.00 pm to 7.00 am
LAeq(1hour)	The equivalent continuous noise for the 1-hour daytime or night-time period that has the potential to result in the greatest noise impact to sensitive receivers.



LAmax	The maximum noise level during the measurement or assessment period. The LAFmax or Fast is averaged over 0.125 of a second and the LASmax or Slow is averaged over 1-second.
m	Metres
mm	Millimetres
mm/s	Millimetres per second
m/s	Metres per second
MR	Martinus Rail
NCA	Noise Catchment Area
NML	Noise Management Level
NSW	New South Wales
NPfl	Noise Policy for Industry
OOHW	Out of hours work
PPV	Peak Particle Velocity
RBL	Rating Background Level
TfNSW	Transport for New South Wales
VDV	Vibration Dose Value
·	



### **Compliance Table**

CoA	Requirement	Reference
A1	<ul> <li>The Proponent must carry out the CSSI in accordance with the terms of this approval and generally in accordance with the:</li> <li>a) Inland Rail – Albury to Illabo Environmental Impact Statement (ARTC, August 2022)</li> <li>b) Albury to Illabo Response to Submissions (ARTC, November 2023)</li> <li>c) Albury to Illabo Preferred Infrastructure Report (ARTC, November 2023)</li> <li>d) Albury to Illabo Preferred Infrastructure Report Response to Submissions (ARTC, February 2024)</li> <li>e) Inland Rail – Albury to Illabo (SSI-10055) Response to request for additional information – Air Quality Assessment (letter dated 1 May 2024)</li> <li>f) Part 1 - Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024)</li> <li>g) Part 2 - Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024)</li> </ul>	The CNVMP
A2	The CSSI must only be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the documents listed in Condition A1 unless otherwise specified in, or required under, this approval.	The CNVMP
C9	<ul> <li>The Construction Noise and Vibration Sub-plan must include, but not limited to:</li> <li>a) measures to reduce construction to standard ICNG hours where sensitive land uses are likely to be noise affected for more than 3 months;</li> <li>b) an approach to assess and manage construction fatigue from noise impacts on sensitive receivers on an ongoing basis;</li> <li>c) noise sensitive periods identified by the community, religious, educational institutions, noise and vibration-sensitive businesses and critical working areas and measures to ensure noise levels above the NMLs do not occur during sensitive periods in accordance with Condition E76;</li> <li>d) mitigation for construction traffic noise impacts from additional construction traffic and road diversions;</li> <li>e) the location of all heritage items, non-heritage structures and infrastructure likely to be impacted by vibration and measures to manage vibration impacts at those items and structures; and</li> <li>f) vibration levels at a range of distances from vibration intensive equipment such as excavators and vibratory rollers before undertaking works with the specific type and size of equipment.</li> </ul>	The CNVMP
E68	A detailed land use survey must be undertaken to confirm sensitive land use(s) (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction noise and vibration, construction ground-borne noise and operational noise. The survey may be undertaken on a progressive basis but must be undertaken in any one area before the commencement of work which generates construction or operational noise, vibration or ground-borne noise in that area. The results of the survey must be included in the Noise and Vibration CEMP sub-plan required by Condition C8.	The CNVMP, Section 3.0, Figure 1 Figure 2
E69	<ul> <li>Work must be undertaken during the following hours:</li> <li>a) 7:00am to 6:00pm Mondays to Fridays, inclusive;</li> <li>b) 7:00am to 6:00pm Saturdays; and</li> <li>c) at no time on Sundays or public holidays.</li> </ul>	Section 2.2



CoA	Requirement	Reference
E70	Except as permitted by an EPL, highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken:	Section 2.2.1, Section 8.2
	a) between the hours of 8:00 am to 6:00 pm Monday to Friday;	
	b) between the hours of 8:00 am to 1:00 pm Saturday; and	
	c) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one hour.	
	For the purposes of this condition, 'continuously' includes any period during which there is less than one hour between ceasing and recommencing any of the work.	
E71	Notwithstanding Conditions E69 and E70, work may be undertaken outside the hours specified in the following circumstances (a, b, or c):	Section 2.3
	a) Safety and Emergencies, including:	
	<ul> <li>for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or</li> </ul>	
	ii. where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm.	
	On becoming aware of the need for emergency work in accordance with Condition E71(a), the AA, the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. Best endeavours must be used to notify all noise and/or vibration affected residents and owners/occupiers of properties identified sensitive land use(s) of the likely impact and duration of those work.	
	b) Work, that meets the following criteria:	
	i. construction that causes LAeq(15 minute) noise levels:	
	<ul> <li>no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and</li> </ul>	
	<ul> <li>no more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land use(s); and</li> </ul>	
	<li>ii. construction that causes LAFmax noise levels no more than 15 dB above the rating background level at any residence during the night period as defined in the ICNG. and</li>	
	iii. construction that causes:	
	<ul> <li>continuous or impulsive vibration values, measured at the most affected residence no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or</li> </ul>	
	<ul> <li>intermittent vibration values measured at the most affected residence no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).</li> </ul>	
	c) By Approval, including:	
	<ul> <li>where different construction hours, such as those for a rail possession, are permitted under an EPL in force in respect of the CSSI; or</li> </ul>	
	ii. works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol as required by Condition E72; or	
	iii. negotiated agreements with directly affected residents and sensitive land use(s).	
E72	An Out-of-Hours Work Protocol must be prepared to identify a process for the consideration, management and approval of work which is outside the hours defined in Conditions E69, and that are not subject to an EPL. The Protocol must be approved by the Planning Secretary before commencement of the	The CNVMP, Section 2.4



СоА	Requirement	Reference
	Out-of-Hours Work. The Protocol must be prepared in consultation with the ER, AA and EPA. The Protocol must include:	
	<ul> <li>a) identification of low and high-risk activities and an approval process that considers the risk of activities, proposed mitigation, management, and coordination, including where:</li> </ul>	
	<ul> <li>the ER and AA review all proposed out-of-hours activities and confirm their risk levels,</li> </ul>	
	ii. low risk activities can be approved by the ER in consultation with the AA, and	
	iii. high risk activities that are approved by the Planning Secretary;	
	b) a process for the consideration of out-of-hours work against the relevant NML and vibration criteria;	
	<ul> <li>c) a process for selecting and implementing mitigation measures for residual impacts in consultation with the community at each affected location, including respite periods. The measures must take into account the predicted noise levels and the likely frequency and duration of the out-of-hours works that sensitive land use(s) would be exposed to, including the number of noise awakening events;</li> </ul>	
	<ul> <li>procedures to facilitate the coordination of out-of-hours work including those approved by an EPL or undertaken by a third party, to ensure appropriate respite is provided; and</li> </ul>	
	e) notification arrangements for affected receivers for approved out-of-hours work and notification to the Planning Secretary of approved low risk out-of-hours works.	
	This condition does not apply if the requirements of Condition E71 are met.	
E73	Except as permitted by an EPL, out-of-hours work that may be regulated through the Out-of-Hours Work Protocol as per Condition E72, but is not limited to:	Section 2.3
	a) Carrying out work that if carried out during standard hours would result in a high risk to construction personnel or public safety based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2009: "Risk management; or	
	<ul> <li>b) where the relevant roads authority has advised the Proponent in writing that carrying out the work during standard hours would result in a high risk to road network performance and a road occupancy licence will not be issued; or</li> </ul>	
	c) where the relevant utility service operator has advised the Proponent in writing that carrying out the work during standard hours would result in a high risk to the operation and integrity of the utility network; or	
	d) work undertaken in a rail possession for operational or safety reasons.	
	Note: Other out-of-hours works can be undertaken with the approval of an EPL, or through the project's Out-of-Hours Work Protocol for works not subject to an EPL.	
E74	Mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration objectives:	The CNVMP, Section 4.0.
	a) construction 'Noise affected' NMLs established using the Interim Construction Noise Guideline (DECC, 2009);	Section 8.0
	b) vibration criteria established using <i>the Assessing vibration: a technical guideline</i> (DEC, 2006) (for human exposure);	
	c) Australian Standard AS 2187.2 - 2006 " <i>Explosives - Storage and Use - Use of Explosives</i> ";	
	d) BS 7385 Part 2-1993 " <i>Evaluation and measurement for vibration in buildings Part 2</i> " as they are "applicable to Australian conditions"; and	



CoA	Requirement	Reference
	<ul> <li>e) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage).</li> </ul>	
	Work that exceeds the noise management levels and/or vibration criteria must be managed in accordance with the Noise and Vibration CEMP subplan.	
	Note: The ICNG identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction NML.	
E75	Mitigation measures must be applied when the following residential ground- borne noise levels are exceeded:	Section 4.2.3
	a) evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and	
	b) night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A).	
	The mitigation measures must be outlined in the Noise and Vibration CEMP sub-plan, including in any Out-of-Hours Work Protocol, required by Condition E72.	
E76	Noise generating work in the vicinity of community, religious, educational institutions, noise and vibration-sensitive businesses and critical working areas (such as exam halls, theatres, laboratories and operating theatres) resulting in noise levels above the NMLs must not be timetabled during sensitive periods, unless other reasonable arrangements with the affected institutions are made at no cost to the affected institution.	Section 8.0
E77	At no time can noise generated by construction exceed the National Standard for exposure to noise in the occupational environment of an eight-hour (8hr) equivalent continuous A-weighted sound pressure level of LAeq,8h of 85 dB(A) for any employee working at a location near the CSSI.	Section 8.6
E78	Construction Noise and Vibration Impact Statements (CNVIS) must be prepared for work that may exceed the noise management levels, vibration criteria and/or ground-borne noise levels specified in Condition E74 and Condition E75 at any residence outside construction hours identified in Condition E69, or where receivers will be highly noise affected. The CNVIS must include specific mitigation measures identified through consultation with affected sensitive land use(s) and the mitigation measures must be implemented for the duration of the works. A copy of the CNVIS must be provided to the AA and ER prior to the commencement of the associated works. The Planning Secretary may request a copy/ies of CNVIS.	This report, Section 8.5
E79	Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before work that generates vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owners and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Noise and Vibration CEMP Sub-plan required by Condition C8 and the Community Communication Strategy required by Condition B1.	Section 8.0
E80	Vibration testing must be undertaken before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. In the event that the vibration testing and attended monitoring shows that the preferred values for vibration are likely to be exceeded, the construction methodology must be reviewed and, if necessary, additional mitigation measures implemented.	Section 6.1, Section 8.0
E81	Advice from an independent heritage specialist must be sought on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures.	Section 8.0



CoA	Requirement	Reference
	Note: The heritage specialist is to provide advice prior to installing equipment that may impact the heritage significance or structural integrity of the heritage listed structures.	
E83	All work undertaken for the delivery of the CSSI, including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided. This must include:	Section 8.0, Section 8.2
	<ul> <li>a) rescheduling work to provide respite to impacted noise sensitive land use(s) so that the respite is achieved; or</li> </ul>	
	<li>b) the provision of alternative respite or mitigation to impacted noise sensitive land use(s); and</li>	
	<ul> <li>c) the provision of documentary evidence to the AA in support of any decision made in relation to respite or mitigation.</li> </ul>	
	The consideration of respite must also include all other CSSI, SSI and SSD projects which may cause cumulative and/or consecutive impacts at receivers affected by the delivery of the CSSI.	
E119	The Proponent must coordinate Work with adjoining Inland Rail Projects, including any work to relocate or connect utilities, to minimise cumulative and consecutive noise and vibration impacts and maximise respite for affected sensitive land uses. Coordination and mitigation measures must be detailed in the Construction Noise and Vibration management Sub-plan required by Condition C9.	Section 8.0, Section 8.2, Section 9.0
E122	Property damage caused directly or indirectly (for example from vibration or from groundwater change) by the construction or operation must be rectified at no cost to the owner. Alternatively, compensation may be provided for the property damage as agreed with the property owner.	Section 6.1



### 1.0 Introduction

SLR Consulting Australia Pty Ltd (SLR) has been engaged by Martinus Rail (MR) to prepare a construction noise and vibration impact statement (CNVIS) for the utility work at the Edmondson Street Bridge, Pearson Street Bridge and Cassidy Footbridge enhancement sites in Wagga Wagga, NSW. These sites form part of the Albury to Illabo (A2I) section of Inland Rail (the Project).

This assessment has been prepared in accordance with the Construction Noise and Vibration Management Plan (CNVMP) for the A2I section of the Project.

This report assesses the potential construction noise and vibration impacts for the utility work associated with the Edmondson Street Bridge, Pearson Street Bridge and Cassidy Footbridge enhancement sites. An explanation of the specialist acoustic terminology used in this report is provided in **Appendix A**.

### 2.0 **Project Description**

Inland Rail is an approximate 1,600 kilometres (km) freight rail network that will connect Beveridge and Kagaru via regional Victoria, New South Wales and Queensland. The Inland Rail route would involve using approximately 1,000 km of existing track (with enhancements and upgrades where necessary) and 600 km of new track, passing through 30 local government areas. Inland Rail will accommodate double-stacked freight trains up to 1,800 metres (m) long and 6.5 m high.

The Albury to Illabo (A2I) section (the Project) forms a key component of the Inland Rail program. It is a 185 km section of existing rail corridor located in regional NSW between the towns of Albury and Illabo. Works would include track realignment, lowering and/or modification within the existing rail corridor, modification, removal or replacement of bridge structures (rail, road and/or pedestrian bridges), raising or replacing signal gantries, level-crossing modifications and other associated works. This CNVIS is associated with utility work associated with the Edmondson Street Bridge, Pearson Street Bridge and Cassidy Footbridge enhancement sites.

Relevant noise and vibration conditions from the Conditions of Approval (CoA) are detailed within the compliance table at the beginning of this document and will be complied with during the work.

### 2.1 Scope of this CNVIS

The focus of this CNVIS is the utility work associated with the Edmondson Street Bridge, Pearson Street Bridge and Cassidy Footbridge. Work at these sites includes:

- Establishment of temporary site facilities, including site office/shed and materials laydown areas
- Site Compound Operation
- Vegetation Clearing
- Utility Work (eg Gas, 66kV Electricity, Water) Investigation and excavation, underbores and essential energy and protection works.

Further details of work activities are outlined in **Section 5.1**. The work areas are surrounded by a combination of urban and suburban residential, commercial, industrial, educational and medical receivers. Additionally, there are several childcare centres, places of worship, hotels, libraries and public buildings at various setbacks from the main areas of work. The Project location, work areas and surrounding receivers are shown in **Figure 1** and **Figure 2**.

### 2.2 Hours of work

In accordance with the Construction Noise and Vibration Management Plan (CNVMP) and CoA E69 construction work must be undertaken within the approved standard construction hours:

- a) 7:00am to 6:00pm Monday to Friday, inclusive;
- b) 7:00am to 6:00pm Saturday and
- c) At no time on Sundays or public holidays.

### 2.2.1 Highly Noise Intensive Work

As outlined in the CoA E70, any highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken:

- a) Between 08:00am 06:00pm Monday to Friday;
- b) Between 08:00am 01:00pm Saturday; and
- c) If continuously, then not exceeding (3) hours, with a maximum cessation of work of not less than one hour.

The CoA defines 'highly noise intensive works' as those identified as annoying under the Interim Construction Noise Guideline (ICNG) and include:

- Use of power saws, such as used for cutting timber, rail lines, masonry, road pavement or steel work;
- Grinding metal, concrete or masonry;
- Rock drilling;
- Line drilling;
- Vibratory rolling;
- Bitumen milling or profiling;
- Jackhammering, rock hammering or rock breaking;
- Impact piling; and
- Tamping (for rail projects).

### 2.3 Variation to hours of work

Notwithstanding CoA E69 and E70, work may be undertaken outside the hours specified in the CoA E71 circumstances (a, b, or c):

- a) Safety and Emergencies
- b) Work, that meets specific criteria
- c) By Approval

Note: refer to Compliance Table for further detail.

### 2.4 Justification of Out of Hours Work (OOHW)

Work activities that may be required or proposed to be undertaken outside of standard working hours will be managed in accordance with the OOHW Protocol as defined in CoA E72 and E73, unless the work is regulated by an EPL.



All work on or adjacent to roads would be carried out in accordance with a relevant Traffic Control Plan (TCP), Road Occupancy Licence (ROL) and/or rail possession to facilitate safe work near live road/rail traffic. Where an ROL/rail possession cannot be obtained for the approved project hours and/or proposed works cannot be undertaken safely during these hours, some works will be required to be undertaken outside of standard hours (ie Out of Hours Work, OOHW).

As outlined in the ICNG, work undertaken on public infrastructure may need to be undertaken outside the recommended standard hours. For this project the need is based on a requirement to sustain the operational integrity of public infrastructure, as works to restore operation of the infrastructure provide benefit to the greater community (ie more than just local residents).

Further detail around the specific work tasks, duration and justification of OOHW must be identified in the OOHW permit, required by the OOHW Protocol or EPL.

### 3.0 Existing Environment

The existing ambient noise environment was described in Environmental Impact Statement (EIS), Technical Paper 6 – Noise and Vibration (Non-Rail) for the Albury to Illabo project. This section provides details of the existing ambient noise environment relevant to the Wagga Wagga utilities work.

The noise catchment areas (NCAs) used are consistent with the NCAs described in the EIS and are shown in **Figure 1** and **Figure 2** with the receiver classifications and approximate noise monitoring locations. Sensitive land uses and receiver classifications within the project area were confirmed through a detailed land use survey undertaken in August 2024. Results of the land use survey have been incorporated into the receiver classifications shown in **Figure 1** and **Figure 2**.

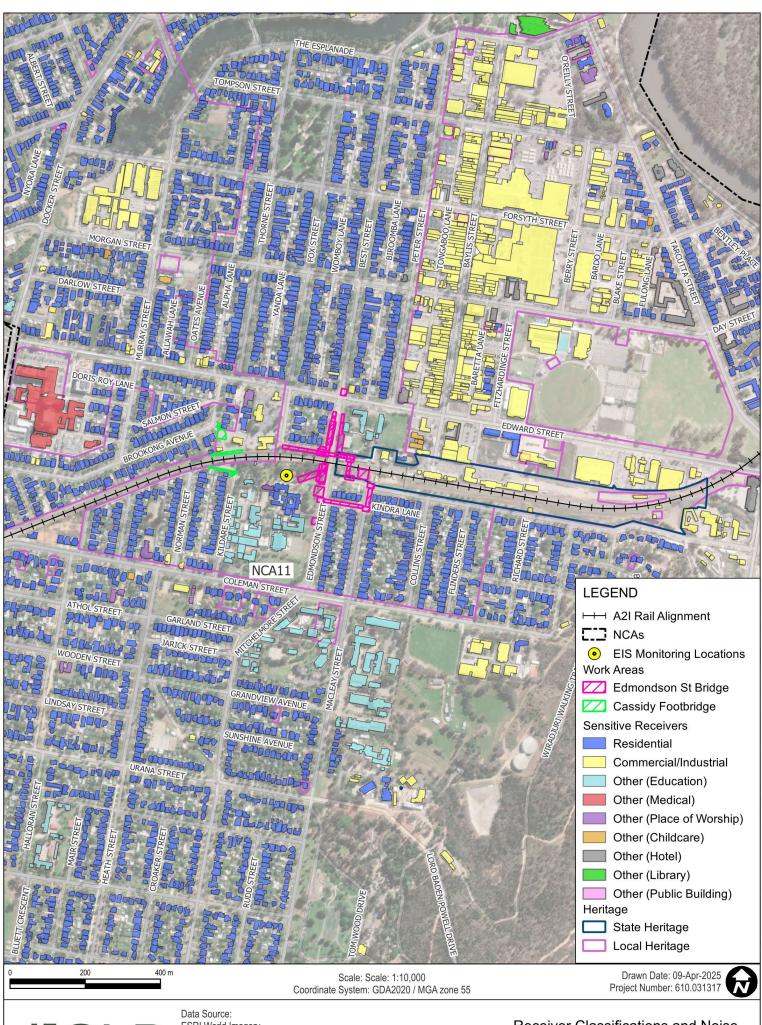
### 3.1 Background Noise Levels

Background noise levels have been referenced from the baseline noise survey undertaken as part of the EIS and reproduced in the CNVMP. The background noise levels relevant to the Wagga Wagga utilities work are summarised in **Table 1**.

Noise Monitoring Location	NCA	Rating background Level (RBL) dBA NPfl defined time periods <sup>1</sup>					
Location		Daytime period Evening period Night-time per					
11	10	46	45	38			
12	11	48	47	37			

### Table 1 Background Noise Levels

Note 1: The assessment periods are the daytime which is 7 am to 6 pm Monday to Saturday and 8 am to 6 pm on Sundays and public holidays, the evening which is 6 pm to 10 pm, and the night-time which is 10 pm to 7 am on Monday to Saturday and 10 pm to 8 am on Sunday and public holidays. See the NSW EPA Noise Policy for Industry (NPfI).



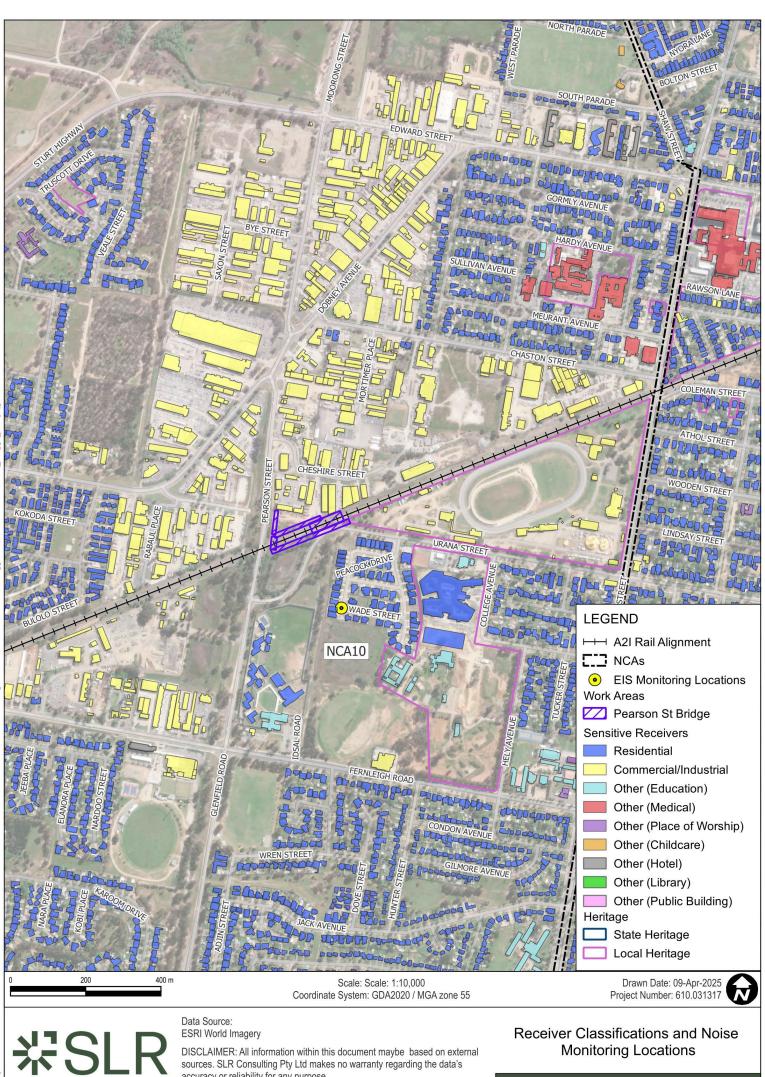
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ESRI World Imagery

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**Receiver Classifications and Noise Monitoring Locations** 

**FIGURE 1** 



sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.

**FIGURE 2** 

### 4.0 Assessment Criteria

### 4.1 Construction Noise and Vibration Guidelines

The standards and guidelines relevant to the Project are listed in **Table 2**. These guidelines aim to protect the community and environment from excessive noise and vibration impacts during construction of projects.

### Table 2 Construction Noise and Vibration Standards and Guidelines

Guideline/Policy Name	Where Guideline Used
Inland Rail NSW Construction Noise and Vibration Framework (CNVF)	Assessment and management protocols for airborne noise, ground-borne noise and vibration impacts for construction of NSW Inland Rail projects
Interim Construction Noise Guideline (ICNG) (DECC, 2009)	Assessment of airborne noise impacts on sensitive receivers
<i>Environmental Criteria for Road Traffic Noise</i> (ECRTN) (EPA, 1999)	Contains guidance for assessing potential sleep disturbance impacts
Road Noise Policy (RNP) (DECCW, 2011)	Assessment of construction traffic impacts
<i>BS</i> 7385 Part 2-1993 Evaluation and measurement for vibration in buildings Part 2, BSI, 1993	Assessment of vibration impacts (structural damage) to non-heritage sensitive structures
DIN 4150:Part 3-2016 Structural vibration – Effects of vibration on structures, Deutsches Institut für Normung, 2016	Screening assessment of vibration impacts (structural damage) to heritage sensitive structures, where the structure is found to be unsound
Assessing Vibration: a technical guideline (DEC, 2006)	Assessment of vibration impacts on sensitive receivers
AS2187.2:2006 Explosives – Storage and use Part 2: Use of explosives	Assessment of impacts from blasting activities
Construction Noise and Vibration Guideline (Public Transport Infrastructure) (CNVG-PTI) (Transport for NSW, 2023)	Utilised for minimum working distances for vibration intensive work.

### 4.2 Noise Management Levels

The noise management levels (NMLs) for residential and other sensitive receivers have been adopted from the CNVMP, as determined in the EIS. Receiver types and locations are shown **Figure 1** and **Figure 2**.

### 4.2.1 Residential Receivers

Project-specific NMLs for residential receivers were determined for each NCA. NMLs for other sensitive receivers are fixed values adopted from the Interim Construction Noise Guideline (ICNG) (DECC, 2009) and outlined in the CNVMP. Residential NMLs for NCAs surrounding the utilities work sites are shown in **Table 3**.



NCA	Noise Manag	ement Leve	Sleep	Sleep						
	Approved Hours				Out of Hours <sup>1,2</sup>		Out of Hours <sup>1,2</sup>		disturbance Screening	Awakening Reaction
	(RBL +10dB)	Daytime (RBL +5dB)	Evening (RBL +5dB)	Night-time (RBL +5dB)	Level (RBL +15dB or 52 dB)	Level				
NCA10	56	51	50	43	53	65				
NCA11	58	53	52	42	52	65				

#### Table 3 Residential Noise Management Levels

Note 1: Approved Construction Hours are Monday to Saturday 7 am to 6 pm, as defined in CoA E69.

Note 2: Work outside of the Approved Hours is defined as OOHW = Out of Hours Work. Daytime out of hours is Sunday and public holidays between 8 am to 6 pm. Evening is 6pm to 10pm Monday – Sunday (including public holidays). Night-time is 10pm to 7am Monday – Saturday and 10pm to 8am Sunday (including public holidays).

#### Highly Noise Affected

In addition to the NMLs presented above, the ICNG highly noise affected level (>75 dBA) represents the point above which there may be strong community reaction to noise and is applicable to all residential receivers during approved project hours as outlined in the CNVMP and the ICNG.

### Sleep Disturbance

Where the sleep disturbance screening level (RBL + 15 dB or 52 dB, whichever is greater, see **Table 3**) is exceeded, further assessment is required to determine whether the 'awakening reaction' level of L<sub>Amax</sub> 65 dBA (external) would be exceeded and the likely number of these events. The awakening reaction level is the level above which residents are likely to be awoken from sleep.

### 4.2.2 Other Sensitive Land Uses and Commercial Receivers

The ICNG NMLs for 'other sensitive' non-residential land uses are shown in Table 4.

The ICNG references AS2107:2016 Acoustics – Recommended design sound levels and reverberation times for building interiors for criteria for 'other sensitive' receivers which are not listed in the guideline. Neither the ICNG nor AS2107 provide criteria for child care centres so the Association of Australian Acoustical Consultants *Guideline for Child Care Centre Acoustic Assessment* (GCCCAA) has been referenced.

#### Table 4 NMLs for 'Other Sensitive' Receivers

Land Use	Noise Management Level LAeq(15minute) (dB) (Applied when the property i in use)			
	Internal	External		
ICNG 'Other Sensitive' Receivers				
Classrooms at schools and other educational institutions	45	55 <sup>1,5</sup>		
Hospital wards and operating theatres	45	65 <sup>2</sup>		
Places of worship	45	55 <sup>1</sup>		
Active recreation areas (characterised by sporting activities which generate noise)	-	65		
Passive recreation areas (characterised by contemplative activities that generate little noise)	-	60		



Land Use	LAeq(15ı Applied whe)	oise Management Level LAeq(15minute) (dB) plied when the property is in use)		
	Internal	External		
Commercial	-	70		
Industrial	-	75		
Non-ICNG 'Other Sensitive' Receivers				
Hotel – daytime & evening <sup>3</sup>	50	60 <sup>1,5</sup>		
Hotel – night-time <sup>3</sup>	35	45 <sup>1,5</sup>		
Child care centres – activity areas <sup>4</sup>	40	50 <sup>1,5</sup>		
Child care centres – sleeping areas <sup>4</sup>	35	45 <sup>1,5</sup>		
Library <sup>3</sup>	45	55 <sup>1</sup>		
Public Building <sup>3</sup>	50	60 <sup>1</sup>		
Aged Care	Considered as F	Considered as Residential		

Note 1: It is assumed that these receivers have windows partially open for ventilation which results in internal noise levels being around 10 dB lower than the external noise level.

Note 2: It is assumed that these receivers have fixed windows which conservatively results in internal noise levels being around 20 dB lower than the external noise level.

Note 3: Criteria taken from AS2107.

Note 4: Criteria taken from Association of Australian Acoustical Consultants Guideline for Child Care Centre Acoustic Assessment.

Note 5: Some receivers near highways or rail lines may have building façade mitigation and air-conditioning. Where evidence is provided a 20dB reduction from external to internal may be adopted.

### 4.2.3 Ground-borne Noise

Construction work can cause ground-borne (structure-borne or regenerated) noise impacts in nearby buildings when vibration intensive equipment is in use, such as during tunnelling or excavation work using tunnel boring machines, roadheaders or rockbreakers. Vibration can be transmitted through the ground and into nearby buildings, which can then create audible noise impacts inside the building.

Ground-borne noise NMLs are applicable where ground-borne noise levels are likely to be higher than airborne noise levels, which can occur where work is underground or where surface work is shielded by noise barriers, other structures or façade mitigation at the receiver. Ground-borne noise is generally found to generate impacts during the evening and night-time periods when ambient noise levels are often much lower, and ground-borne noise is more prominent.

The internal ground-borne noise NMLs for residential receivers are shown in Table 5.

### Table 5 Internal ground-borne NMLs

Receiver Type	Noise Management Level (LAeq(15minute) – dBA)				
	Daytime <sup>1</sup> Evening <sup>2</sup> Night-tim				
Residential	n/a	40	35		

Note 1: Daytime ground-borne noise NMLs are not specified in the ICNG of CoA.

Note 2: Specified in the ICNG and CoA E75.



For other sensitive receivers, the ICNG does not provide guidance in relation to acceptable ground-borne noise levels. For the purpose of this CNVIS, the internal airborne NMLs presented in **Table 4** will also be adopted for ground-borne noise.

### 4.3 Vibration Criteria

The effects of vibration from construction work can be divided into three categories:

- Those in which the occupants of buildings are disturbed (human comfort). People can sometimes perceive vibration impacts when vibration generating construction work is located close to occupied buildings. Vibration from construction work tends to be intermittent in nature and the EPA's Assessing Vibration: a technical guideline (2006) (AV:ATG) provides criteria for intermittent vibration based on the Vibration Dose Value (VDV), as shown in Table 6. While the construction activities for the proposal are generally not expected to result in continuous or impulsive vibration impacts, corresponding criteria are provided in Table 7.
- Those where building contents may be affected (**building contents**). People perceive vibration at levels well below those likely to cause damage to building contents. For most receivers, the human comfort vibration criteria are the most stringent and it is generally not necessary to set separate criteria for vibration effects on typical building contents. Exceptions to this can occur when vibration sensitive equipment, such as electron microscopes or medical imaging equipment, are in buildings near to construction work. No such equipment has been identified in the study area.
- Those where the integrity of the building may be compromised (**structural/cosmetic damage**). If vibration from construction work is sufficiently high it can cause cosmetic damage to elements of affected buildings. Industry standard cosmetic damage vibration limits are specified in British Standard BS 7385 and German Standard DIN 4150. The limits are shown in **Table 8** and **Table 9**.

Building Type	Assessment Period		
		Preferred	Maximum
Critical Working Areas (eg operating theatres or laboratories)	Day or night-time	0.10	0.20
Residential	Daytime	0.20	0.40
	Night-time	0.13	0.26
Offices, schools, educational institutions and places of worship	Day or night-time	0.40	0.80
Workshops	Day or night-time	0.80	1.60

### Table 6 Human Comfort Vibration – Vibration Dose Values for Intermittent Vibration

Note 1: The VDV accumulates vibration energy over the daytime and night-time assessment periods, and is dependent on the level of vibration as well as the duration.



# Table 7Human Comfort Vibration – Preferred and Maximum Weighted Root Mean<br/>Square Values for Continuous and Impulsive Vibration Acceleration (m/s²)<br/>1–80 Hz

Location	Assessment	Preferre	d values	Maximum values	
	period	z-axis	x- and y- axis	z-axis	x- and y- axis
Continuous vibration					
Residential	Daytime	0.010	0.0071	0.020	0.014
	Night-time	0.007	0.005	0.014	0.010
Offices, schools, educational institutions and places of worship	Day or night-time	0.020	0.014	0.040	0.028
Workshops	Day or night-time	0.04	0.029	0.080	0.058
Impulsive vibration					
Residential	Daytime	0.30	0.21	0.60	0.42
	Night-time	0.10	0.071	0.20	0.14
Offices, schools, educational institutions and places of worship	Day or night-time	0.64	0.46	1.28	0.92
Workshops	Day or night-time	0.64	0.46	1.28	0.92

### Table 8 Cosmetic Damage – BS 7385 Transient Vibration Values for Minimal Risk of Damage

Group	Type of Building	Peak Component Particle Velocity in Frequency Range of Predominant Pulse		
		4 Hz to 15 Hz 15 Hz and Ab		
1	Reinforced or framed structures. Industrial and heavy commercial buildings	50 mm/s at 4 Hz and above		
2	Unreinforced or light framed structures. Residential or light commercial type buildings	15 mm/s at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz increasing to 50 mm/s at 40 Hz and above	

Note 1: Where the dynamic loading caused by continuous vibration may give rise to dynamic magnification due to resonance, especially at the lower frequencies where lower guide values apply, then the guide values may need to be reduced by up to 50%.

#### Table 9 Cosmetic Damage – DIN 4150 Guideline Values for Short-term Vibration on Structures

Group	Type of Structure	Guideline Values Vibration Velocity (mm/s)				
			Foundation, All Directions at a Frequency of			Floor Slabs, Vertical
		1 to 10 Hz			All frequencies	All frequencies
1	Buildings used for commercial purposes, industrial buildings and buildings of similar design	20	20 to 40	40 to 50	40	20



Group	Type of Structure	Guideline Values Vibration Velocity (mm/s)					
			Foundation, All Directions at a Frequency of			Floor Slabs, Vertical	
		1 to 10 Hz	10 to 50 Hz	50 to 100 Hz	All frequencies	All frequencies	
2	Residential buildings and buildings of similar design and/or occupancy	5	5 to 15	15 to 20	15	20	
3	Structures that, because of their particular sensitivity to vibration, cannot be classified as Group 1 or 2 <u>and</u> are of great intrinsic value (eg heritage listed buildings)	3	3 to 8	8 to 10	8	20 <sup>1</sup>	

Note 1: It may be necessary to lower the relevant guideline value markedly to prevent minor damage.

### 4.3.1 Heritage Buildings or Structures

Heritage listed buildings and structures should be considered on a case-by-case basis but BS 7385 notes that buildings of historical value should not be assumed to be more sensitive to vibration, unless structurally unsound. Where a heritage building is deemed to be sensitive, the more stringent DIN 4150 Group 3 guideline values in **Table 9** can be applied.

### Heritage Structures

**Table 10** includes heritage structures from the State Heritage Register, Local Heritage Items and Local Environment Plan that are within 100 m of any construction work areas at Edmondson St Bridge, Cassidy Footbridge or Pearson St Bridge.

Heritage Item	Listing	Nearest Work Location	Construction/Condition
Wagga Wagga Showground, Kyeamba Smith Hall and Grandstand <sup>1</sup>	Local Environment Plan I246	Pearson Street Bridge	The Wagga Wagga Showground includes a number of early and mid-20th century buildings, including the 'Neil Skeers' Grandstand, the 'Kyeamba Smith' Hall and several other contemporary buildings.
			The Wagga Wagga Showground camping grounds are adjacent to the Pearson Street Bridge works.
			The Grandstand and the Hall appear to be in fair condition.
Cassidy Parade and Brookong Avenue footbridge	ARTC s170 4280661	Cassidy Footbridge	This pedestrian bridge has been constructed from cast concrete with a steel pipe and wire railing fence.
			The pedestrian bridge appears to be in good condition
Mount Erin Convent Chapel, High School, and Grounds	Local Environment Plan I260	Edmondson Street Bridge and Cassidy Footbridge	This complex comprises of a number of buildings, many of which date to the late 19th century.
Wagga Wagga Railway Station and Yard Group	State Heritage Register 01279,	Edmondson Street Bridge	The Wagga Wagga Railway Station is a substantial and ornate structure, built in the Victorian Free Classical style.

Table 10 Heritage Items Nearby Construction Work Areas



Heritage Item	Listing	Nearest Work Location	Construction/Condition
	ARTC s170 4280250		West of the station building is the Wagga Wagga footbridge ('Mothers Footbridge'), which was built
Best Street Railway Gatehouse	State Heritage Edmondson Street Register 01279, Bridge Local		in 1936. It is a simple steel girder bridge with a steel post-and-rail safety barrier and straight lateral bracing post). The footbridge is in fair condition.
(former)	-		Immediately west of the station building is the Wagga Wagga Railway Museum. The museum is a single-storey brick building with a corrugated iron
Station Master's Residence (former)	State Heritage Register 01279, Local Environment Plan I99	Edmondson Street Bridge	sheet clad roof. Southwest of the station building is the former Best Street gatehouse. It has a T-shaped floorplan and has been constructed from brick— English bond— with a corrugated iron roof (partially missing). The building is in poor condition, with evidence of fire damage, ongoing squatting, and general disrepair.

Note 1 The Grandstand and Hall are further than 100 m from the Pearson Street Bridge work area, although some buildings within the camping ground Wagga Wagga Showground camping ground may fall within 100 m of the work areas.

The Mount Erin Convent Chapel, High school and Grounds, Wagga Wagga Railway Station and Yard group, Best Street Railway Gatehouse and Station Master's Residence are within the Wagga Wagga Conservation Area. The Wagga Wagga Conservation Area also encompasses many 19th and early 20th century buildings, including the residential dwellings at 2 Kildare St and 1 Norman St nearby the Cassidy Footbridge works.

Further information on the heritage items in **Table 10** are provided in the Construction Cultural Heritage Management Plan (CCHMP). No structures nearby the work areas identified in this CNVIS are flagged as structurally unsound in the CCHMP.

Pre- and post-condition surveys of heritage structures are to be conducted when relevant (ie if the heritage buildings are within the minimum working distances for heritage items for nominated vibration-intensive equipment) refer to **Section 4.3.3** and **Section 6.1**.

### 4.3.2 Buried Pipework and Utilities

The German Standard DIN 4150-3:1999 "Structural Vibration Part 3: Effects of vibration in structures" provides guideline values for evaluating the effect of vibration on buried pipework. The values are based on the assumption that pipes have been manufactured and laid using current technology. Additional considerations may be required at junctions. The recommended limits for short term vibration to ensure minimal risk of damage are presented numerically in **Table 11**.

Line	Pipe Material	Guideline value at the Pipe <sup>1,2</sup> (PPV mm/s)
1	Steel (including welded pipes)	100
2	Clay, concrete, reinforced concrete, pre stressed concrete, metal (with or without flange)	80
3	Masonry, plastic <sup>3</sup>	50

Note 1: Mounting equipment directly onto pipes may not be possible. If the vibration source is not immediately next to the pipework, measurements can be made on the ground surface to obtain an estimate. Generally, this vibration level will be greater than the level measured directly on the pipework.

Note 2: The guideline values may be reduced by 50% without further analysis when evaluating the effects of long-term vibration on buried pipework.

Note 3: Drainpipes shall be evaluated using the values given for Line 3.



## 4.3.3 Minimum Working Distances for Vibration Intensive Work

Minimum working distances for typical vibration intensive construction equipment have been sourced from the Transport for NSW (TfNSW) Construction Noise and Vibration Guideline (Public Transport Infrastructure) (CNVG-PTI) and are shown in **Table 12**. The minimum working distances are for both cosmetic damage (from BS 7385 and DIN 4150) and human comfort (from the NSW EPA Assessing Vibration: a technical guideline). They are calculated from empirical data which suggests that where work is further from receivers than the quoted minimum distances then impacts are not considered likely.

The minimum working distances listed in the CNVG were used to derive the minimum working distances required for cosmetic damage to industrial and heavy commercial buildings (also reinforced or framed structures). The following pseudo-power law relationship has been used in the derivations:

$$V_2 = V_1 \times \left(\frac{D_1}{D_2}\right)^B$$

where a site exponent value of B = 1.6 is adopted for the calculations, as per AS2187.2:2006

# Table 12 Recommended Minimum Working Distances from Vibration Intensive Equipment

Plant Item	Rating/Description	Minimum Distance									
		Co	Human								
		Residential and Light Commercial (BS 7385)	Heritage Items <sup>1</sup> (DIN 4150, Group 3)	Industrial and Heavy Commercial (BS 7385)	Response (NSW EPA Guideline) <sup>2</sup>						
Vibratory Roller	<50 kN (1–2 tonne)	5 m	11 m	3 m	15 m to 20 m						
	<100 kN (2–4 tonne)	6 m	13 m	3 m	20 m						
	<200 kN (4–6 tonne)	12 m	25 m	6 m	40 m						
	<300 kN (7–13 tonne)	15 m	31 m	8 m	100 m						
	>300 kN (13–18 tonne)	20 m	40 m	10 m	100 m						
	>300 kN (>18 tonne)	25 m	50 m	12 m	100 m						
Small Hydraulic Hammer	300 kg (5 to 12 t excavator)	2 m	5 m	1 m	7 m						
Medium Hydraulic Hammer	900 kg (12 to 18 t excavator)	7 m	15 m	4 m	23 m						
Large Hydraulic Hammer	1,600 kg (18 to 34 t excavator)	22 m	44 m	11 m	73 m						
Vibratory Pile Driver	Sheet piles	2 m to 20 m	5 m to 40 m	1 to 10 m	20 m						
Piling Rig – Bored	≤ 800 mm	2 m (nominal)	5 m	1 m	4 m						
Jackhammer	Hand held	1 m (nominal)	3 m	1 m	2 m						
Ballast Tamping <sup>2</sup>	N/A	5 m	10 m	3 m	30 m						

Note 1: Minimum working distances for heritage items that have been identified as structurally unsound or otherwise particularly sensitive to vibration. These distances have been calculated based on the 2.5 mm/s PPV criteria from DIN 4150 and the cosmetic damage minimum working distances presented in the CNVG-PTI with reference to BS 7385.



Note 2: Based on SLR measurement data. The human response minimum working distance for Ballast Tamping is determined based on a residential night-time preferred VDV criterion.

The minimum working distances are indicative and will vary depending on the particular item of equipment and local geotechnical conditions. The distances apply to cosmetic damage of typical buildings under typical geotechnical conditions.

## 4.4 Traffic on Surrounding Roads

The potential impacts from project related traffic on the surrounding public roads are assessed using the NSW EPA *Road Noise Policy* (RNP). An initial screening test is first applied to evaluate if existing road traffic noise levels are expected to increase by more than 2.0 dB. Where this is considered likely, further assessment is required using the RNP criteria shown in **Table 13**.

Road Category	Type of Project/Land Use	Assessment Criteria (dB)				
		Daytime (7 am – 10 pm)	Night-time (10 pm – 7 am)			
Freeway/ arterial/ sub-arterial roads	Existing residences affected by additional traffic on existing freeways/arterial/sub-arterial roads generated by land use developments	LAeq(15hour) 60 (external)	LAeq(9hour) 55 (external)			
Local roads	Existing residences affected by additional traffic on existing local roads generated by land use developments	L <sub>Aeq(1hour)</sub> 55 (external)	LAeq(1hour) 50 (external)			

#### Table 13 RNP/NCG Criteria for Assessing Traffic on Public Roads

## 5.0 Noise Assessment

The potential construction noise levels from the Project have been predicted using ISO 9613:2 algorithm in SoundPLAN noise modelling software. The model includes ground topography, buildings and representative noise sources from the Project.

## 5.1 Work Scenario

Noise modelling scenarios have been determined based on key Project noise generating stages, supplied by the Project team. A detailed description of each work scenario and the total sound power levels (LW) are provided in **Table 14**. A summary of construction work periods and schedule required for each scenario is shown in **Table 15**, as per the working hours defined in the CNVMP. The locations of the various work scenarios are shown in **Figure 3**.

Table 14	Work Scenario Descriptions
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ID	Scenario	Description	Total Lw								
Edmondson Street Bridge											
W.001	Site Establishment/ Demobilisation	<ul><li>Site Compound delivery and set up</li><li>Haul road construction</li><li>Laydown construction</li></ul>	113								
W.002	Compound Operation	<ul><li>Operation of the site compound</li><li>Delivery of materials/equipment</li></ul>	104								



ID	Scenario	Description	Total Lw
W.003	Vegetation clearing	Tree clearing and trimming for works	116
W.004	Utility Work (Gas) - investigation and excavation	Investigation and excavation prep for gas main works	117
W.005	Utility Work (Gas) - underbores	Underbore installations	116
W.006	Utility Work (Gas) - cutovers & make good	Works within cutover locations	112
W.007	Utility Work (66kV) (day)	Pole excavation & preparation	115
W.008	Utility Work (66kV) (night outage 1)	Pole installation via crane lifts	113
W.009	Utility Work (66kV) (night outage 2)	<ul><li>Overhead conductor installation</li><li>Removal of old poles</li></ul>	109
W.010	Temporary Construction Hoarding	<ul> <li>Temporary Construction Hoarding at South Wagga Public School</li> </ul>	114
W.011	School Fence Removal	School Fence Removal at South Wagga     Public School	106
W.012	Tree Relocation	Relocation and replanting of three palm trees at Kildare Catholic College	105
Cassidy	Footbridge		
W.013	Utility Work (Gas) protection works	<ul> <li>Installation of protection slab above existing gas main</li> </ul>	113
W.014	Utility Work – essential energy works	<ul> <li>LV electrical and light poles removal with demolition of bridge and re-installed as required</li> </ul>	114
W.015	Vegetation clearing	<ul> <li>Tree clearing and trimming during gas and electrical works</li> </ul>	116
Pearson	Street Bridge		
W.016	Utility Work (gas & water) - investigation and excavation	<ul> <li>Investigation and excavation prep for gas and watermain main works</li> </ul>	117
W.017	Utility Work (water) - underbores	Underbore installations	111
W.018	Utility Work (gas & water) - cutovers & make good	Works within cutover locations	112
W.019	Utility Work – essential energy works	<ul> <li>Temporary safe working zones to be implemented (no permanent physical protection works required)</li> </ul>	103
		<ul> <li>Installation of a protection slab above conduit</li> </ul>	
W.020	Vegetation clearing	<ul> <li>Tree clearing and trimming during excavation and water cutover works</li> </ul>	116



Table 15	Scenarios and Periods of Work	

ID	Scenario		Hours o	Indicative	Likely		
		Approved	Out-	of-Hours Wo	Start Date	Duration	
		Hours	Day OOH <sup>1</sup>	Evening <sup>2</sup>	Night <sup>3</sup>		
Edmo	ndson Street Bridge						
W.001	Site Establishment/ Demobilisation	✓	-	-	-	Jan 2025	1 month
W.002	Compound Operation	✓	-	-	-	Jan 2025	7 months
W.003	Vegetation clearing	~	-	-	-	April, Jun, Jul, Aug 2025	4 month
W.004	Utility Work (Gas) - investigation and excavation	✓	-	-	-	Feb, Mar 2025	2 month
W.005	Utility Work (Gas) - underbores	✓	-	-	-	May 2025	1 month
W.006	Utility Work (Gas) - cutovers & make good	✓	-	-	-	Jul 2025	1 week
W.007	Utility Work (66kV) (day)	✓	-	-	-	May, Jun 2025	1 month
W.008	Utility Work (66kV) (night outage 1)	✓	~	~	~	Jul 2025	1 week
W.009	Utility Work (66kV) (night outage 2)	✓	~	~	~	Aug 2025	1 week
W.010	Temporary Construction Hoarding	✓	-	-	-	Jul 2025	3 months
W.011	School Fence Removal	✓	-	-	-	Jul 2025	3 months
W.012	Tree Relocation	✓	-	-	-	Jul 2025	3 months
Cassio	dy Footbridge						
W.013	Utility Work (Gas) protection works	✓	-	-	-	Jul, Aug 2025	2 months
W.014	Utility Work – essential energy works	✓	~	~	~	Jul, Aug, Sep 2025	3 months
W.015	Vegetation clearing	✓	-	-	-	Aug 2025	1 month
Pearso	on Street Bridge						
W.016	Utility Work (gas & water) - investigation and excavation	✓	-	-	-	Jul 2025	1 month
W.017	Utility Work (water) - underbores	✓	-	-	-	Jul 2025	2 months
W.018	Utility Work (gas & water) - cutovers & make good	✓	-	-	-	Sep 2025	2 months
W.019	Utility Work – essential energy works	✓	-	-	-	May 2025	2 months
W.020	Vegetation clearing	✓	-	-	-	Jul 2025	1 month
	1	1			1	1	1

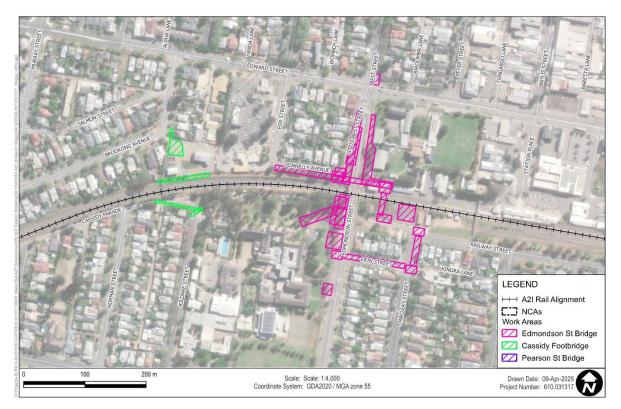
Note 1: Daytime out of hours is 8 am to 6 pm on Sunday and public holidays.

Note 2: Evening is 6 pm to 10 pm Monday – Sunday (including public holidays).

Note 3: Night is 10 pm to 7 am Monday – Saturday and 10pm to 8am Sunday (including public holidays).

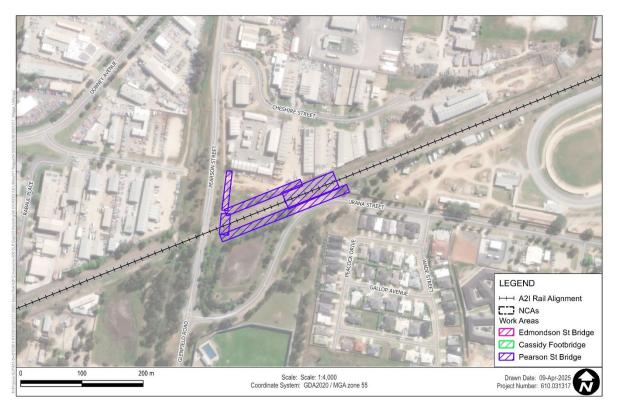
Note 4: Where works are expected to occur outside of the standard working hours, further detail around the specific work tasks, duration and justification of OOHW must be identified in the OOHW permit, required by the OOHW Protocol or EPL.





#### Figure 3 Construction Work Locations (Edmondson Street and Cassidy Footbridge)

Figure 4 Construction Work Locations (Pearson Street)





## 5.1.1 Modelling Scenarios and Equipment

The assessment uses 'realistic worst-case' scenarios to determine the impacts from the noisiest 15-minute period that is likely to occur for each work scenario, as required by the ICNG. Sound power levels (Lw) for the construction equipment used in the modelling are listed in **Appendix B**.

## 5.2 **Predicted Noise Levels**

The following overview is based on the predicted impacts at the most affected receivers and is representative of the worst-case noise levels that are likely to occur during construction.

The assessment shows the predicted 'mitigated' impacts based on the exceedance of the noise management levels, as per the categories in **Table 16**. The mitigation and management measures adopted for this CNVIS are provided in **Section 8.0**.

Subjective	Exceedance of Nois	Impact Colouring	
Classification	Daytime	Out of Hours	
Negligible	No exceedance	No exceedance	
Noticeable	-	1 to 5 dB	
Clearly Audible	1 to 10 dB	6 to 15 dB	
Moderately Intrusive	11 to 20 dB	16 to 25 dB	
Highly Intrusive	> 20 dB	> 25 dB	

#### Table 16 Exceedance Bands and Impact Colouring

A summary of the number of buildings where NML exceedances were predicted for the various work scenarios is shown in **Table 17**. The number of receivers above the 'highly noise affected' (HNA) level are also included in the table. Maps of the predicted worst-case noise impacts are presented in **Appendix C**.

The assessment presents the combined predicted noise impacts for each scenario. Meaning, the worst-case result at each receiver is considered from all potential work areas where each scenario is to be undertaken.

The assessment is generally considered conservative as the calculations assume several items of construction equipment are in use at the same time within individual scenarios. As outlined in **Section 5.1.1**, the assessment uses 'realistic worst-case' scenarios to determine the impacts from the noisiest 15-minute period that is likely to occur for each work scenario.

The exceedances shown in **Table 17** are therefore representative of a 'realistic worst-case' 15-minute period, and are unlikely to occur for extended periods of time throughout the entire construction period at any given receiver.

The indicative work durations presented in **Table 15** represent a window of time where the scenarios could occur, and does not represent the entire duration of the exceedances shown in **Table 17**.

In reality, there would frequently be periods when construction noise levels are much lower than the worst-case levels predicted as well as times when no equipment is in use and no noise impacts occur.



#### Table 17 Overview of NML Exceedances

ID	Scenario										Number	of Receiv	ers						
		HNA <sup>1</sup>		With NML exceedance (dB) <sup>2</sup>															
				Approve			Out of Hours												
				Daytime	9	Daytime OOH				Evening			Night-time				Sleep Disturbance	Sleep Awakening	
			1-10	11-20	>20	1. 5	6-15	16-25	>25	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	>Screening Level (NCA10 – 53 dB) (NCA11 – 52 dB)	>65 dB
Residential Re	eceivers																		
Edmondson Stree	et Bridge																		
W.001	Site Establishment/Demobilisation	-	26	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	-	5	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Vegetation clearing	8	52	9	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.004	Utility Work (Gas) - investigation and excavation	18	60	30	11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.005	Utility Work (Gas) - underbores	21	70	20	17	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.006	Utility Work (Gas) - cutovers & make good	7	40	19	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.007	Utility Work (66kV) (day)	6	48	5	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.008	Utility Work (66kV) (night outage 1)	6	39	7	5	41	39	7	5	44	44	8	5	242	150	44	13	175	35
W.009	Utility Work (66kV) (night outage 2)	5	28	7	3	25	28	7	3	34	30	5	5	113	81	30	10	117	25
W.010	Temporary Construction Hoarding	-	48	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.011	School Fence Removal	-	11	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.012	Tree Relocation	-	2	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cassidy Footbrid	ge	•			•		•	•	•	•	•	•	•		•		•	-	-
W.013	Utility Work (Gas) protection works	-	33	6	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.014	Utility Work – Essential Energy Works	7	49	13	5	34	49	13	5	38	56	14	5	356	163	56	19	301	53
W.015	Vegetation clearing	9	67	18	7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pearson Street B	ridge	•	-			-	·	•		•			•	·		·			
W.016	Utility Work (gas & water) - investigation and excavation	-	27	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.017	Utility Work (water) - underbores	-	19	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.018	Utility Work (gas & water) - cutovers & make good	-	22	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.019	Utility Work – Essential Energy Works	-	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.020	Vegetation clearing	-	25	8	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



ID	Scenario										Number	of Receiv	ers						
		HNA <sup>1</sup>									With NI	ML excee	dance (dB	) <sup>2</sup>					
				Approve	d	Out of Hours													
				Daytime	•		Daytiı	me OOH			Evening		Night-time			Sleep Disturbance	Sleep Awakening		
			1-10	11-20	>20	1.5	6-15	16-25	>25	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	>Screening Level (NCA10 – 53 dB) (NCA11 – 52 dB)	>65 dB
Other Sensit	tive Receivers			1	1		1	1	1		1	1							
Edmondson St	reet Bridge																		
W.001	Site Establishment/Demobilisation	n/a	7	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	n/a	1	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Vegetation clearing	n/a	3	5	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.004	Utility Work (Gas) - investigation and excavation	n/a	9	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.005	Utility Work (Gas) - underbores	n/a	12	8	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.006	Utility Work (Gas) - cutovers & make good	n/a	6	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.007	Utility Work (66kV) (day)	n/a	9	2	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.008	Utility Work (66kV) (night outage 1)	n/a	3	4	1	3	4	1	-	1	-	-	-	3	1	-	-	n/a	n/a
W.009	Utility Work (66kV) (night outage 2)	n/a	4	2	-	1	3	2	-	-	-	-	-	1	-	-	-	n/a	n/a
W.010	Temporary Construction Hoarding	n/a	3	4	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.011	School Fence Removal	n/a	4	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.012	Tree Relocation	n/a	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cassidy Footbr	ridge						•		•		•	•							
W.013	Utility Work (Gas) protection works	n/a	17	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.014	Utility Work – Essential Energy Works	n/a	15	6	-	8	12	1	-	1	1	-	-	1	-	-	-	n/a	n/a
W.015	Vegetation clearing	n/a	15	8	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pearson Street	Bridge	•	•			•	•	•	•	•	•	•	•	•	•	•			·
W.016	Utility Work (gas & water) - investigation and excavation	n/a	3	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.017	Utility Work (water) - underbores	n/a	2	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.018	Utility Work (gas & water) - cutovers & make good	n/a	2	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.019	Utility Work – Essential Energy Works	n/a	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.020	Vegetation clearing	n/a	3	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Note 1: Highly noise affected, based on ICNG definition (i.e. predicted LAeq(15minute) noise at residential receiver is greater than 75 dBA).

Note 2: Based on worst-case predicted noise levels

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A summary of the predicted worst-case noise levels is shown below for each work area:

#### Edmondson Street Bridge

- 'Highly intrusive' noise impacts are predicted at the nearest residential receivers for *W.003* through to *W.009* during approved daytime hours. The highest noise levels and impacts would be experienced by adjacent receivers when noisy construction work is conducted nearby.
- For other sensitive receivers, 'highly intrusive' impacts are predicted for *W.003*, *W.008*, *W.010* and *W.011* during approved daytime hours. It is noted that other sensitive receivers should only be considered impacted 'when in use'.
- For work associated with *W.008* and *W.009*, 'highly intrusive' impacts are predicted at the nearest residential receivers during all assessment periods. The addresses of the residential receivers impacted by night-time works are provided in **Appendix D**.
- For work associated with *W.008* and *W.009*, generally minor impacts ('noticeable' to 'clearly audible') are predicted for other sensitive receivers during OOHW. South Wagga Public School is predicted to experience 'highly intrusive' impacts during approved daytime hours. It is noted that other sensitive receivers should only be considered impacted 'when in use'.
- For scenario *W.001*, three 'moderately intrusive' impacts are predicted at closest residential receivers to the works. No 'moderately intrusive' impacts are expected for *W.002* at residential receivers and no 'highly intrusive' impacts are expected for these work scenarios at residential and other sensitive receivers.
- Noise generating activities from the Compound Operation (*W.002*) during approved daytime hours are generally predicted to be below the NML for other sensitive receivers. However, the childcare centre at 6 Station Place is predicted to experience minor noise impacts ('clearly audible').
- Highly noise affected receivers are predicted in all scenarios except *W.001* and *W.002* (ie *W.003* to *W.009*). It is predicted that work from scenarios *W.004* and *W.005* will result in greatest number of receivers experiencing HNA levels.

#### **Cassidy Footbridge**

- During approved daytime hours, 'highly intrusive' noise impacts noise impacts are predicted at the nearest residential receivers for all scenarios (*W.013* to *W.015*). The highest noise levels and impacts would be experienced by adjacent receivers when noisy construction work is conducted nearby.
- Highly noise affected receivers are predicted in all scenarios except *W.013*. It is predicted that work from scenario *W.015* will result in greatest number of receivers experiencing HNA levels.
- The nearest other sensitive receivers are predicted to experience 'highly intrusive' noise impacts during *W.015*. 'Moderately intrusive' impacts are predicted at other sensitive receivers for *W.013* and *W.014* during approved daytime and at *W.014* during daytime out of hours periods.
- For work associated with *W.014*, 'highly intrusive' impacts are predicted at the nearest residential receivers during all assessment periods. The addresses of the residential receivers impacted by night-time works are provided in **Appendix D**.

#### Pearson Street Bridge

- No 'highly intrusive' noise impacts are predicted for residential or other sensitive receivers for all Pearson Street bridge work scenarios (*W.016* to *W.020*).
- 'Clearly audible' impacts are predicted at the closest residential and other sensitive receivers to the works during approved daytime hours.

Noise levels above the screening level for sleep disturbance and sleep awakening criteria are predicted for *W.008, W.009 and W.014*. Sleep disturbance impacts would generally be caused by heavy vehicle movements and more noise intensive equipment. Where reasonable and feasible, these activities should be limited to the less sensitive periods to avoid noise impacts during more sensitive out-of-hours periods (refer to **Section 8.0**). The number of awakening events would depend on several factors, including the equipment being used, the duration of noisy work and the distance of the work to each residential receiver. Further detail around the specific OOHW, (eg duration and justification) must be identified in the OOHW permit, refer **Section 2.4**.

Review of the predictions shows that both the sleep disturbance screening level and sleep awakening reaction level are likely to be exceeded when night work occurs near residential receivers. It should be noted that sleep disturbance is only expected to occur during utility works (*W.008, W.009 and W.014*) and will require outages during off-peak hours between 10pm – 5am. At this stage, these works are not expected to be undertaken for more than two consecutive nights, however further detail around the specific OOHW, (eg duration and justification) will be identified in the OOHW permit.

The receivers which would potentially be affected by sleep awakening impacts are generally the same receivers where 'moderately intrusive' and 'highly intrusive' night-time impacts have been predicted (refer to **Appendix C**). These receivers may be eligible for respite offers (RO), agreements with owners (AO) or alternative accommodation (AltA), refer **Section 8.3**.

All appropriate feasible and reasonable construction noise mitigation measures will be applied to work as outlined in **Section 8.0** and **Section 8.1**.

## 5.3 Ground-borne Noise

Ground-borne construction noise impacts from the Project are not anticipated as vibration intensive work with the potential to generate perceptible ground-borne noise, is not included in the scope of work. Vibration intensive work for the Project will be completed outdoors meaning airborne noise levels at the nearest receivers are expected to be higher than the corresponding internal ground-borne noise levels.

Where airborne noise levels are higher than ground-borne noise levels it is not necessary to evaluate potential ground-borne noise impacts and as such, they have not been considered further for this assessment.



# 6.0 Vibration Assessment

Vibration intensive items of equipment that would be required during work assessed in this CNVIS include a Medium Hydraulic Hammer. These items of equipment are required during the work as shown in **Table 18**.

The potential impacts during vibration intensive work have been assessed using the Transport CNVG-PTI minimum working distances for cosmetic damage and human response shown in **Table 18**.

ID	Scenario	Rating/	Minimum Distance					
		Description	Cos	Human				
			Residential and Light Commercial (BS 7385)	Heritage Items (DIN 4150, Group 3)	Industrial and Heavy Commercial (BS 7385)	Response (NSW EPA Guideline)		
W.004	Edmondson Street Bridge Utility Work (Gas) - investigation and excavation	Small Hydraulic Hammer: 300 kg (5 to 12 t excavator)	2 m	5 m	1 m	7 m		
		Medium Hydraulic Hammer: 900 kg (12 to 18 t excavator)	7 m	15 m	4 m	23 m		
W.016	Pearson Street Bridge Utility Work (gas & water) - investigation and excavation	Small Hydraulic Hammer: 300 kg (5 to 12 t excavator)	2 m	5 m	1 m	7 m		
		Medium Hydraulic Hammer: 900 kg (12 to 18 t excavator)	7 m	15 m	4 m	23 m		

Table 18 Vibration Intensive Equipment

Vibration offset distances have been determined from the TfNSW CNVG-PTI minimum working distances for cosmetic damage and human comfort (see **Table 12** and the assessment is summarised in **Figure 5** and **Figure 6**). The offset distances are representative of the highest vibration levels that would likely be experienced by the nearest receivers when work occurs nearby.

For most construction activities, vibration emissions are intermittent in nature and for this reason, higher vibration levels occurring over shorter time periods are allowed.

In the event that additional work is undertaken which requires the use of other items of plant identified than those identified in **Table 18**, a vibration impact assessment must be conducted prior to the commencement of work.







Figure 6 Medium Hydraulic Hammer - Minimum Working Distances (Pearson Street)















## 6.1 Cosmetic Damage Assessment

**Figure 5** shows that four sheds/structures within the Wagga Wagga Station Yard have the potential to fall within the cosmetic damage minimum working distance for residential structures during *W.004*.

**Figure 6** shows that one nearby commercial building (10 Cheshire St) has the potential to fall within the cosmetic damage minimum working distance for light commercial structures during *W.016*. If the commercial building at 10 Cheshire St is classified as a Line 1-type item from BS 7385 Part 2 (reinforced or framed structure/industrial or heavy commercial structure) then the minimum working distance for cosmetic damage is 4 m. The structure at 10 Cheshire St falls within the minimum working distance of 4 m for reinforced or framed structure/industrial or heavy commercial structure.

**Figure 7** and **Figure 8** depicting the minimum working distances for the small hydraulic hammer suggests that all receivers are beyond the minimum working distances for cosmetic damage. Therefore, the smaller, less vibration intensive hydraulic hammer will be prioritised where the required works can be feasibly and reasonably be completed with the smaller machinery.

Offset distances from specific vibration intensive plant to the nearest receivers and building construction should be confirmed before commencing vibration intensive work during construction.

Before commencement of any work, a structural engineer must undertake condition surveys of all building, structures, utilities and the like identified as being at risk of damage. For this CNVIS, conditions surveys (based on the medium hydraulic hammer) are required for:

- 10 Cheshire St
- Four structures within the Wagga Wagga Station Yard

After completion of construction, condition surveys must be undertaken by a structural engineer of all items for which pre-condition surveys were undertaken.

The results of the surveys must be documented in a Condition Survey Report for each item surveyed. Copies of Condition Survey Reports must be provided to the landowners of the items surveyed, and no later than one month before the commencement of construction and three months following the completion of construction.

Feasible and reasonable construction vibration mitigation measures should be applied where vibration intensive work is required within the minimum working distances. Construction vibration mitigation and management measures are discussed in **Section 8.1**.

In accordance with CoA E122, property damage caused directly or indirectly by the construction or operation must be rectified at no cost to the owner. Alternatively, compensation may be provided for the property damage as agreed with the property owner.

#### **Heritage Structures**

The following structures are within the Wagga Wagga Conservation Area or are heritage listed and fall within the 'Heritage Unsound' minimum working distance for a medium hydraulic hammer:

- 2 Donnelly Av
- 4 Donnelly Av
- 23 Macleay St
- 25 Macleay St
- Five structures within the Wagga Wagga Station Yard

The dwellings on Donnelly Ave and Macleay St are likely to be occupied and therefore not expected to be structurally unsound. For these structures, cosmetic damage due to vibration is not anticipated.

One structure within the Wagga Wagga Railway Yard falls within the heritage unsound but does not fall within the buffer area for cosmetic damage when using a medium hydraulic hammer. This structure is approximately 12 m offset from the track and already subjected to train vibration and is therefore not expected to be structurally unsound.

As per CoA E80, vibration testing must be undertaken before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. Advice must be sought on methods and locations for installing equipment as per CoA E81.

If other vibration intensive activities are required within minimum working distances to heritage structures, a building condition assessment should be undertaken of the heritage item/s to assess if they are considered to be sensitive to vibration prior to vibration work commencing.

#### **Buried Pipework and Utilities**

This CNVIS involves direct work on Gas, Water and Electrical utilities. This work will be undertaken in accordance with the asset owner's guidelines to ensure there are no adverse vibration impacts to the utilities. No other buried pipework or utilities have been identified in this CNVIS at risk of impact from construction vibration.

## 6.2 Human Comfort Assessment

**Figure 5** shows that shows that nine residential receivers have the potential to fall within the human comfort minimum working distances. **Figure 6** shows that three nearby commercial buildings have the potential to fall within the human comfort minimum working distances. Occupants of these buildings may be able to perceive vibration impacts at times when medium hydraulic hammers are in use nearby. Where impacts are perceptible, they would likely only be apparent for relatively short durations when vibration intensive equipment is in use nearby.

Similarly, **Figure 7** and **Figure 8** depicting the minimum working distances for the small hydraulic hammer suggests that all receivers are beyond the minimum working distances for human comfort. Therefore, the smaller, less vibration intensive hydraulic hammer will be prioritised where the required works can be feasibly and reasonably be completed with the smaller machinery.

Feasible and reasonable construction vibration mitigation measures should be applied where vibration intensive work is required within the minimum working distances. Construction vibration mitigation and management measures are discussed in **Section 8.1**.

# 7.0 Construction Traffic Assessment

The EIS identified that during the construction phase of the project, heavy vehicles would be required for materials and equipment delivery while light vehicles will transport workers to and from the site. This additional road traffic may impact receivers along the proposed transport routes.

No additional information has been provided regarding construction road traffic, therefore a summary of the predicted daytime traffic noise levels from the EIS is shown in **Table 19**.

Traffic Route	Road Type	Traffi (Both D	Construction ic Noise Directions) (Period)	Exceed base criterion? Dav <sup>1</sup>	Potential Increase > 2dB	Potential Noise Impact
		Existing	Existing + Proposed	. (7am – 10pm)	2uB	inipact
Wagga Wagga Precin	ct					
Pearson Street bridge	9					
Edward Street (Sturt Highway)	Arterial	58.9	59.4	No	No	No
Moorong Street (Olympic Highway)	Arterial	63.6	64	Yes	No	No
Pearson Street	Sub-arterial	58.5	58.9	No	No	No
Urana Street	Sub-arterial	54.5	55.4	No	No	No
Cheshire Street	Local	49.2	51.5	No	Yes	No
Alan Turner Depot Access Road	Local	53.4	54.6	No	No	No
Fernleigh Road	Local	61	61.3	Yes	No	No
Wagga Wagga Station	n/Yard, Edmonds	on Street bri	dge and Cass	idy Footbridge	9	
Edward Street (Sturt Highway)	Arterial	60.2	61.1	Yes	No	No
Fox Street	Local	62.6	63.1	Yes	No	No
Mitchelmore Street	Sub-arterial	56.2	57.4	No	No	No
Edmondson Street	Sub-arterial	57.7	58.8	No	No	No
Norman Street	Local	62.2	62.6	Yes	No	No
Coleman Street	Sub-arterial	53.3	55.9	No	Yes	No
Cassidy Parade	Local	59.1	60.1	Yes	No	No
Erin Street	Local	51.9	55.4	Yes	Yes	Yes
Station Place	Local	49.3	53.7	No	Yes	No
Brookong Avenue	Local	57.6	59.4	Yes	No	No

#### Table 19 Construction Traffic Assessment

Note 1: Freeway/arterial/sub-arterial roads: LAeq(15hour) 60dBA(external) Local roads: LAeq(1hour) 55dBA (external)

Note 2: Freeway/arterial/sub-arterial roads: LAeq(9hour) 55dBA(external) Local roads: LAeq(1hour) 50dBA (external)

The EIS found that construction traffic associated with the Wagga Wagga work stages on public roads is generally likely to comply with the road traffic noise goals. The exception is Erin Street during the daytime period, where construction traffic noise is likely exceed the base criterion by 0.4 dB. This level of exceedance is considered negligible (ie not perceptible by the average listener). Therefore, noise impacts are unlikely to negatively affect the relevant receivers.

The EIS did not assess construction traffic during the night-time period, and no additional information has been provided regarding construction road traffic. Therefore, it is conservatively assumed that where night-time construction traffic is required, impacts would



be experienced by residences along construction routes on sub-arterial and local roads within close proximity to the work sites. Night-time noise impacts are not anticipated on arterial roads.

Some sections of the Wagga Wagga utility work will require minor temporary (short-term) traffic control diversions. These will be set up and removed within the shift (eg 8am to 5pm). There are no 24/7 diversions anticipated for this CNVIS.

Mitigation and management measures to assist in minimising noise impacts from construction traffic are shown in **Section 8.0**.

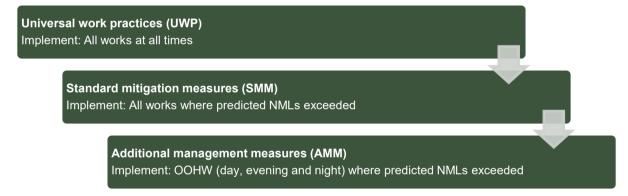
## 8.0 Mitigation and Management Measures

Noise from the Project may be apparent at the nearest receivers at certain times during construction. The Project should apply all feasible and reasonable mitigation measures to minimise the impacts.

In accordance with CoA E74, works that exceed the noise management levels and/or vibration criteria must be managed in accordance with the CNVMP.

The Inland Rail NSW Construction Noise and Vibration Framework (CNVF) has been adopted as a guideline for this project and outlines a hierarchy of work practices and mitigation measures to minimise the impact of construction noise and vibration on the community. This hierarchy is shown in **Figure 9**.

#### Figure 9 Hierarchy of Work Practices and Mitigation Measures



The universal work practices (UWP) and standard mitigation measures (SMM) for the overall A2I project are outlined in the CNVMP. All mitigation and management measures outlined in the CNVMP will be adopted in accordance with CoA E74. Site specific mitigation measures are also outlined below in **Section 8.1**. These measures have been incorporated into the noise modelling assessment to provide mitigated results. Additional Management Measures (AMM) are outlined in **Section 8.3**.

## 8.1 Site Specific Mitigation Measures

**Table 20** outlines the mitigation and management measures that will be adopted to minimise potential noise and vibration impacts associated with this CNVIS at surrounding sensitive receivers. These measures have been considered in noise modelling based on the total scenario sound power levels, refer **Appendix B**.



## Table 20 Site Specific Mitigation Measures

Measure	Reference / Notes
Project Planning	
Use quieter and less vibration emitting construction methods where feasible and reasonable.	Best practice
Works will be completed during the approved daytime construction hours where possible, as outlined in <b>Section 2.2.</b> Some unavoidable OOHW will be required due to road and rail traffic management	Best practice CoA E69 CoA E71
restrictions, as outlined in <b>Section 2.3</b> .	
For gas utility works (W.005), coordination between Martinus Rail and the local council has been undertaken to revise investigation and excavation methodology to minimise construction noise exposure and reduce the duration of construction to residents along Erin Street and MacLeay Street.	Best practice
Where OOHW is required, an OOHW Permit will be prepared, as required by the OOHW Protocol or EPL.	Best practice
Further detail around the specific work tasks, duration and justification of OOHW	CoA E71 CoA E72
must be identified in the OOHW permit.	CoA E73
Scheduling	
Highly noise intensive works that result in an exceedance of the applicable NML at	Best practice
the same receiver must only be undertaken:	CoA E70
a) Between 08:00am – 06:00pm Monday to Friday; b) Between 08:00am – 01:00pm Saturday; and	
c) if continuously, then not exceeding three (3) hours, with a minimum cessation of	
work of not less than one hour.	
Refer Section 8.2.	
Noise generating work in the vicinity of community, religious, educational institutions, noise and vibration-sensitive businesses and critical working areas (such as exam halls, theatres, laboratories and operating theatres) resulting in noise levels above the NMLs will not be timetabled during sensitive periods, unless other reasonable arrangements with the affected institutions can be made at no cost to the affected institution.	Best practice CoA E76
Refer to Community Consultation in <b>Section 8.5</b> .	
All work undertaken for the delivery of the project including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided.	Best practice, CoA E83
Where feasible:	Best practice,
• Limit noise generating work outside of standard construction hours as much as possible	CoA E78
Limit noise generating work on the weekends as much as possible	
Construction works should be completed as soon as possible.	
Refer to Community Consultation in <b>Section 8.5</b>	
Site Layout	
Compounds and worksites have been designed to promote one-way traffic and minimise the need for vehicle reversing.	Best practice
Construction activities must be planned to minimise vehicle movements around the Site.	
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.	

Measure	Reference / Notes
Equipment that is noisy will be started away from sensitive receivers	
Fraining	
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.	Best practice
The induction protocols must include awareness of noise generating activities and nitigation measures and techniques that should be implemented.	
Fraining must be conducted for appropriate community behaviours when access/egress the Site.	
Plant and Equipment Source Mitigation	
All plant and equipment must be maintained in a proper and efficient condition, operated in a proper and efficient manner, and feature standard noise reduction neasures where applicable.	Best practice CNVF
Plant and equipment must be selected with options to minimise noise such as covers, mufflers, shrouds and other noise suppression equipment. Low noise emission plant and equipment must be selected where available.	
Fonal movement / reversing alarms (beepers) will be replaced with non-tonal alarms (squawkers) on all equipment in use (subject to occupational health and safety requirements).	
Stationary noise sources will be sited behind structures (or temporary screens) that act as barriers, or at the greatest distance from the noise-sensitive area (where practicable). Equipment will be oriented so that noise emissions are directed away from any sensitive areas.	
Noise generating equipment will be regularly checked and effectively maintained, ncluding checking of hatches/enclosures regularly to ensure that seals are in good condition and doors close properly against seals.	
Noise monitoring spot checks of equipment will be completed to ensure individual tems are operating as expected	
Dropping materials from a height will be avoided.	
_oading and unloading will be carried out as far as possible from noise sensitive areas.	
Alternative construction methods have been considered for activities including vegetation clearing (eg electric / hydraulic chainsaws). Alternative methods will be considered for hydraulic hammers (eg smaller sized equipment, refer <b>Section 6.0</b> ). Use of these methods will depend on the specific circumstances and therefore the worst-case scenario is included for the purpose of this CNVIS.	Best practice
Construction Traffic	
Construction traffic routes to site will be limited to major roads where possible.	Best practice
Trucks will not queue outside residential properties.	
Truck drivers will be instructed to avoid compression braking as far as practicable.	
Delivery vehicles should be fitted with straps rather than chains for unloading, wherever possible.	
Fruck movements will be kept to a minimum (ie trucks are fully loaded on each trip).	
Screening	
nstall purpose-built screening or enclosures around long-term fixed plant that has he potential to impact nearby receivers	Best practice



Measure	Reference / Notes
The layout of the site will take advantage of existing screening from local topography, where possible. Site huts, maintenance sheds and/or containers will be positioned between noisy equipment and the affected receivers.	CNVF
Implementation of temporary noise barriers for highly intensive noise activities, such as saw cutting or rock breaking.	
Community Consultation	
Regular communications on the activities and progress of the proposal shall be provided to the community (eg via newsletter, email and/or website).	Best practice CNVF
A telephone, email and web-based community information service shall be established to allow the community to obtain additional information on construction activities, provide feedback or make a complaint.	Best practice CNVF
Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage (and/or human comfort) must be notified before work that generates vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24	Best practice CoA E79
hours, owners and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier.	
Personalised communication and respite offers will be provided to all receivers that are predicted to be highly noise affected (HNA).	Best practice
Notification will be provided to all impacted residences along construction traffic routes (including temporary diversions).	Best practice
Where complaints are received, work practices will be reviewed and feasible and reasonable practices applied to minimise any further impacts.	Best practice
Monitoring	
Noise and/or vibration monitoring will be conducted (as appropriate) when noise/vibration intensive works are being undertaken in close proximity to sensitive receivers.	Best practice CNVF CoA E80
Noise and vibration monitoring will be undertaken in accordance with the CNVMP and Monitoring Program.	CoA E81
Advice from a heritage specialist must be sought on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures.	
See Section 8.7 for details of monitoring requirements.	
Vibration	
Where vibration generating works are required within the minimum working distances and considered likely to exceed the criteria:	Best practice CoA E80
• Different construction methods with lower source vibration levels (ie alternative equipment) will be investigated and implemented, where feasible (refer <b>Table 12</b> ).	
• Attended vibration measurements will be undertaken at the start of the works to determine actual vibration levels of the item. Vibration intensive works will cease if the monitoring indicates vibration levels are likely to, or do, exceed the relevant cosmetic damage criteria. Work methods will be modified prior to recommencing the activity.	
Note: Small hydraulic hammers will be prioritised to reduce vibration impacts to surrounding receivers.	
Vibration intensive works required within the minimum working distance at the same receiver must only be undertaken:	Best practice CoA E70



Measure	Reference / Notes
a) Between 08:00am – 06:00pm Monday to Friday;	
b) Between 08:00am – 01:00pm Saturday; and	
c) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one hour.	
Refer to Section 8.2.	
Where works are required within the cosmetic damage minimum working distances,	Best practice
building condition surveys will be completed before and after the works to ensure no cosmetic damage has occurred.	CoA C9
Condition status of all heritage structures that fall within the unsound heritage minimum working distance for the nominated vibration-intensive equipment should be confirmed prior to the commencement of works.	
Property damage caused directly or indirectly (for example from vibration or from	Best practice
groundwater change) by the construction or operation must be rectified at no cost to the owner. Alternatively, compensation may be provided for the property damage as agreed with the property owner.	CoA E122

## 8.2 Respite

In accordance with CoA E70, except as permitted by an EPL, highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken:

- a) Between 08:00am 06:00pm Monday to Friday;
- b) Between 08:00am 01:00pm Saturday; and
- c) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one hour.

For the purposes of this condition, 'continuously' includes any period during which there is less than one hour between ceasing and recommencing any of the work.

In accordance with CoA E72 and E83, the procedure outlined in the OOHW Protocol must be implemented to coordinate OOHW (including those approved by an EPL or undertaken by a third party), to ensure appropriate respite is provided. This coordination must include:

- a) rescheduling work to provide respite to impacted noise sensitive land use(s) so that the respite is achieved; or
- b) the provision of alternative respite or mitigation to impacted noise sensitive land use(s); and
- c) the provision of documentary evidence to the AA in support of any decision made in relation to respite or mitigation.

The consideration of respite must also include all other CSSI, SSI and SSD projects which may cause cumulative and/or consecutive impacts at receivers affected by the delivery of the CSSI.

Highly noise intensive works (as defined in **Section 2.2.1**) are required in various work scenarios. As outlined above, highly noise intensive work that results in an exceedance of the applicable NML is restricted to the hours shown above and must have respite periods as defined above.

CoA E70 applies to the following work scenarios where highly noise intensive works are proposed and the NML is predicted to be exceeded:



#### Edmondson Street Bridge

- W.003 Vegetation clearing
- W.004 Utility Work (Gas) investigation and excavation
- W.005 Utility Work (Gas) underbores
- W.007 Utility Work (66kV) (day)
- W.009 Utility Work (66kV) (night outage 2)
- W.011 School Fence Removal

#### **Cassidy Footbridge**

- W.014 Utility Work essential energy works
- W.015 Vegetation clearing

#### Pearson Street Bridge

- W.016 Utility Work (gas & water) investigation and excavation
- W.020 Vegetation clearing

In accordance with CoA E71, scenarios W.008, W.009 and W.014 require approval through the OOHW Protocol or and EPL to occur outside the hours listed above from CoA E70.

Respite offers are also required as part of the additional mitigation measured outlined in **Section 8.3**.



# 8.3 Additional Mitigation and Management Measures for Out of Hours Work

Where the 'mitigated' construction noise levels remain above the NMLs, the Additional Mitigation Measures Matrix (AMMM) adapted from in the CNVF and CNVMP is to be implemented. The approach, guided by the AMMM, is primarily aimed at pro-active engagement with affected sensitive receptors rather than additional noise reducing mitigation. OOHW has been divided into three periods (Day, Evening and Night) as adapted from the CNVF around the approved project hours (CoA E69).

Additional mitigation measures described in the CNVF and CNVMP are listed in **Table 21**. The additional mitigation measures for airborne noise are shown in **Table 22**. The additional mitigation measures for construction vibration are shown in **Table 23**.

#### Table 21 Additional Mitigation Measures

Mitigation/Management Measure	Abbreviation
Communication (Category 1) <sup>1</sup>	CO1
Communication (Category 2) <sup>2</sup>	CO2
Respite Offer <sup>3</sup>	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: As outlined in the CNVF, Communication to provide information on the OOHW via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.

Note 2: As outlined in the CNVF, Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.

Note 3: As outlined in the CNVF, RO are not applicable to non-residential receivers. RO may comprise of pre-purchased movie tickets, dinner vouchers or similar. RO can also be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.



	Time Period	Exceedance of NML	Perception	Duration	Communication Category/ Management Measure
OOHW	Sunday 8am – 6pm	<5	Noticeable	Any	CO1
Daytime Period	(including public holidays)	5-15	Clearly audible	Any	CO1
		16-25	Moderately intrusive	Any	CO1, CO2
		>25	Highly intrusive	Any	CO1, CO2
оонw	Monday – Sunday	<5	Noticeable	Any	CO1
Evening Period	6pm – 10pm (including public holidays)	5-15	Clearly audible	Any	CO1
T Chou		16-25	Moderately intrusive	Any	CO1, CO2
		>25	Highly	Any	CO1, CO2
			intrusive	>2 consecutive rest periods <sup>1</sup>	CO1, CO2, RO
OOHW	Monday – Saturday	<5	Noticeable	Any	CO1
Night Period	10pm – 7am	5-15	Clearly audible	Any	CO1
1 onou	Sunday 10pm – 8am (including public	16-25	Moderately	Any	CO1, CO2
	holidays)		intrusive	>2 consecutive sleep periods <sup>1</sup>	CO1, CO2, RO,AO
		>25	Highly	Any	CO1, CO2, RO
			intrusive	>2 consecutive sleep periods <sup>1</sup>	CO1, CO2, RO, AO, AltA

### Table 22 Airborne Noise – Additional Mitigation Measures Matrix

Note 1: Where the duration exceeds 2 consecutive rest/sleep periods, the corresponding additional mitigation measures will be provided for all periods where construction exceedances are expected to occur.

#### Table 23 Vibration – Additional Mitigation Measures Matrix

Ti	me Period	Duration	Exceedance of 'preferred' value	Exceedance of 'maximum' value
OOHW Daytime Period	Sunday 8am – 6pm (including public holidays)	Any	CO1, CO2	CO1, CO2, RO

Ti	me Period	Duration	Exceedance of 'preferred' value	Exceedance of 'maximum' value
OOHW Evening Period	Monday – Sunday 6pm – 10pm (including public holidays)	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period	Monday – Saturday 10pm – 7am Sunday 10pm – 8am (including public holidays)	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

## 8.3.1 Receivers Eligible for Additional Mitigation Measures - Noise

The receivers eligible for additional mitigation and management measures due to construction noise from the project work are presented in **Appendix C** and **Appendix D**. Where work occurs for greater than two consecutive evening or nights, receivers may be eligible for respite offers (RO), agreements with owners (AO) or alternative accommodation (AltA) depending on the exceedance level and works period as detailed in **Table 22**.

As outlined in **Section 5.2**, 'highly intrusive' impacts at nearest residential receivers and some other sensitive receivers are predicted for most work scenarios due to the proximity to the work. The addresses of the 'highly intrusive' impacted receivers are provided in **Appendix D**.

Work scenarios that are scheduled for OOHW for Edmondson Street Bridge, (W.008 and W.009) and Cassidy Footbridge (W.014) are predicted to create highly intrusive noise levels at residential receivers. Should these works occur for more than two consecutive sleep periods in a row, additional mitigation measures as outlined in as in **Table 22** must be provided to affected sensitive receivers. Where possible, work would be scheduled to avoid impacting the same receivers for more than two consecutive sleep periods. Receivers that would be impacted for more than two consecutive sleep periods must be identified in the OOHW permit.

### 8.3.2 Receivers Eligible for Additional Mitigation Measures - Vibration

**Figure 5** identifies nine receivers with the potential to fall within the minimum working distances for Human Comfort.

**Figure 6** identifies three nearby commercial buildings have the potential to fall within the human comfort minimum working distances. It is noted that one of these receivers (10 Cheshire St) has the potential to fall within the cosmetic damage minimum working distance for residential structures.

As defined in **Section 2.2.1** and **Section 8.2** activities involving high noise generating equipment, such as rock hammering or rock breaking, are limited to specific daytime construction hours only. Respite periods of 1 hour after every 3 hours of high noise/vibration generating work are also required.

Construction vibration mitigation and management measures are discussed in **Section 8.0**. Any proposed works outside of the approved daytime hours will need to be assessed as part of the OOHW permit preparation discussed in **Section 2.4**. Any additional mitigation required (from **Table 23**) for vibration activities must be identified in the OOHW permit.



## 8.4 Community Notification

As detailed in the standard management measures outlined in the CNVF.

- A telephone, email and web-based community information service will be established to allow the community to obtain additional information on construction activities, provide feedback or make a complaint.
- Regular communications on the activities and progress of the proposal shall be provided to the community (e.g. via newsletter, email and/or website).

## 8.5 Consultation with Affected Receivers

In accordance with CoA E78, the CNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the Work. Details of this consultation are provided below.

#### 8.5.1 Consultation approach

This section discusses the consultation approach that has been undertaken for the purposes of the work subject to this CNVIS. It is noted that consultation with affected sensitive land users on what specific mitigation measures they may require is considered to be an ongoing and live process and as such, measures that are personal to individual affected sensitive land user(s) will not be regularly documented in this CNVIS. Consultation records will be made available to the AA upon request.

The purpose of this consultation is to identify receivers who have specific circumstances that need further consideration during construction – for example, households who have children undertaking exams (HSC or similar), households who have vulnerable persons with disabilities or medical conditions, shift workers, etc.

The consultation approach utilised by Martinus Rail is in accordance with the Community Communications Strategy (CCS). The approach involved directly contacting the affected sensitive land user identified by this CNVIS through one or more of the following methods:

- Surveys distributed by email and paper notifications
- Door-knocks with a 'Sorry we missed you' card for those who were not at home
- Notifications
- Phone calls
- Emails
- Community briefings / group meetings.

Affected sensitive land users contacted by Martinus Rail have been made aware of the anticipated duration and nature of construction works that may affect them, as well as mitigation measures that will be implemented in accordance with the CEMP and CNVMP. Contact information for Martinus Rail's Community Team have been provided to assist with ongoing consultation during construction.

Depending on individual needs and circumstances, specific mitigation measures offered by Martinus Rail could include but are not limited to:

- Offers of individually agreed respite to highly noise affected sensitive land users (standard construction hours)
- Consultation on timetabling of highly noise intensive works to avoid sensitive periods



- Offers of attended noise monitoring at the premises to confirm actual levels of impact
- Offers of temporary alternative accommodation or work space
- Individual briefings.

Specific mitigation measures identified in consultation with individual affected sensitive land users will be implemented during works subject to this CNVIS. Further mitigation measures may be identified by the affected community as construction progresses and these will be assessed where reasonable and feasible and on a case by-case basis.

### 8.5.2 Consultation for this CNVIS

The project website includes the following key information:

- Latest approvals
- All management plans, including the CNVMP and the Construction Environmental Management Plan (CEMP), which provide information on the relevant environmental management measures
- Notifications, including three-month lookaheads, monthly updates and specific OOHW notifications
- Contact mechanisms, including requests for feedback and/or complaints on individual circumstances.

As part of the project's program of regular notifications, the following notifications have included information on the OOHW requirements subject to this CNVIS:

- Project-wide monthly notifications distributed to over 25,000 properties
- Work specific notifications
- Three-month lookahead notifications distributed to over 25,000 properties
- Regular email with details of upcoming work or changes.

All notifications include the following:

- Link to project website
- 24/7 phone number and email address for enquiries, complaints or comments
- Requests for the community to provide feedback on their individual needs and circumstances.

Prior to commencement of works subject to this CNVIS, targeted consultation occurred with a total of approximately 7,127 residential properties across the entire project alignment, approximately 3,081 of which were in the Wagga Wagga precinct. These properties received targeted letterbox drops, emails and newspaper adverts from the Community Team and feedback was sought across (3) three weeks, from 7 August to 28 August 2024.

The team requested feedback from the affected community on their individual needs during this targeted consultation.

#### 8.5.3 Consultation outcomes

Feedback received during this consultation was primarily related to the existing operational train line and the disturbance the trains cause.



In Wagga Wagga, no additional management measures relating to construction noise were identified during this consultation (as required by CoA E78); however, the following general sentiments were noted from respondents:

- Limit noise generating work outside of standard construction hours as much as possible
- Limit noise generating work on the weekends as much as possible
- Construction works should be completed as soon as possible.

The CNVIS documents the need to limit noise generating work as much as possible and this will be achieved through the implementation of existing mitigation measures listed in this CNVIS.

Nevertheless, regular consultation with the community will continue throughout construction in accordance with the Community Communications Strategy and the Community Action Plan prepared for the relevant activities. A list of key stakeholders relevant to this CNVIS are included in, see **Table 24** below.

Precinct Area	Receiver Type	Level of Engagement	Distance from Work Site (m)						
Wagga Wagga Precinct	Wagga Wagga Precinct								
Wagga Wagga City Council	Council	Consult	Various						
Wagga Wagga Base Hospital	Health	Consult	350						
Calvary Riverina Hospital (private)	Health	Consult	800						
Pearson Street bridge									
Wagga Show Campground and Wagga & District Greyhound Club	Active Recreation	Consult	10						
Peacock Drive, Bulolo Street, Gallop Avenue and Wade Street	Residential	Consult	Various						
Edmondson Street Bridge	and Cassidy Parade Brid	ge							
Kildare Catholic College	Educational / Residential	Consult	30						
South Wagga Public School	Educational	Consult	5						
Edmonson, Erin and Macleay Streets	Residential	Consult	Various						
Kildare, Norman, Little Best, Best Streets and Cassidy Parade	Residential	Consult	Various						
The Penthouse	Residential	Consult	Various						
Erin Earth - 1 Kildare Street, Wagga Wagga	Educational	Consult	20						

#### Table 24 Key Stakeholders for this CNVIS



## 8.6 Occupational Noise Exposure

In accordance with CoA E77, worksites will be managed to ensure that noise generated by construction will not exceed the National Standard for exposure to noise in the occupational environment of an eight-hour equivalent continuous A-weighted sound pressure level of LAeq,8h of 85 dBA for any employee working at a location near the project.

It is not anticipated that an exceedance will occur at any point during the project, however occupational exposure to noise will primarily be managed under the Work Health and Safety Management Plan.

## 8.7 Monitoring

Noise and vibration monitoring will be undertaken in accordance with the CNVMP (including monitoring program) and the CNVF.

CoA E81 requires that advice from an independent heritage specialist must be sought on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures prior to the installation of the equipment.

#### **Construction Noise Monitoring**

Construction noise monitoring will be carried out at the commencement of activities to confirm that actual noise levels are consistent with the predictions presented in this CNVIS, and that the management measures that have been implemented are effective or as per the CNVMP.

Monitoring locations will be focused to the most impacted receivers identified in **Appendix C**. Indicative locations are identified in **Table 25**, however, these will be subject to provision of safe access and the specific location of work being undertaken at the time of monitoring.

Noise monitoring will, where practicable, be in a position with unobstructed views of general site activities, whilst shielded as much as possible from non-construction site noise (e.g. road traffic, rail noise and other surrounding noise). The preferred measurement height is 1.2-1.5m above the ground. In accordance with *Australian Standard AS1055:2018*, outdoor noise monitoring is to be undertaken at least 3.5m from any reflecting structure other than the ground.

Noise monitoring will be carried out on or near the property boundary at the locations representative of the nominated receivers in **Table 25** (i.e. in publicly accessible areas near the nominated receivers, if it is safe to do so). Noise monitoring results will be assessed against the noise management levels (NMLs) and predicted exceedance category identified in **Appendix C**.

The results will be documented with discussion about the details of work underway at the time and mitigation in place. Noise monitoring results will be recorded on the MR Noise Monitoring Form in Procore. Noise monitoring data will be made available to the AA and ER for information, upon request.

#### **Construction Vibration monitoring**

Attended or unattended vibration monitoring will be undertaken as required. Monitoring locations may vary as work progresses and will be determined on a case-by-case basis or in response to complaints. The focus of monitoring will be at risk buildings, structures and sensitive receivers as identified in **Section 6.0**. If other vibration intensive activities are required, an assessment of their potential impact is required as per the CNVMP.

Indicative locations are identified in **Table 25**, however, these will be subject to provision of safe access and the specific location of work being undertaken at the time of monitoring. Vibration monitoring data will be made available to the AA and ER for information, upon request.

Location	Туре	Monitoring	Timing	
Noise Monitoring		·		
<ul> <li>Edmondson Street Bridge</li> <li>6 Little Best St, Wagga Wagga</li> <li>96 Railway St, Turvey Park</li> <li>Kildare Catholic College</li> <li>Cassidy Footbridge</li> <li>2 Kildare St,</li> </ul>	based noise monitoring ga St, olic	<ul> <li>Confirming that actual noise levels are consistent with predicted noise impacts and that the effectiveness of actions and mitigation measures implemented are satisfactory</li> <li>In response to a noise related complaint(s) (determined on a case-by-case basis)</li> <li>Following implementation of mitigation measures or noise attenuation because of exceedance of predicted noise levels</li> </ul>	At the commencement of the activities being undertaken	
Turvey Park Pearson Street Bridge • 8B Peacock Dr, Turvey Park	Out of Hours Work	Attended monitoring as required by the Out of Hours Work (OOHW) plan to validate noise levels are consistent with predicted noise impacts and that the effectiveness of actions and mitigation measures implemented are satisfactory	At the commencement of the range of OOHW activities being undertaken.	
	Plant / Equipment Checks	<ul> <li>Spot checks would be carried out as required on a case-by-case basis, such as</li> <li>In response to a specific noise related complaint and</li> <li>During noise verification monitoring when it is possible to isolate the noise from one piece of plant or equipment.</li> </ul>	case-by-case basis	
Vibration Monitoring				
<ul> <li>Edmondson Street Bridge</li> <li>2 Donnelly Ave, Wagga Wagga</li> <li>96 Railway St, Turvey Park</li> <li>23 MacLeay St, Turvey Park</li> <li>Pearson Street Bridge</li> <li>10 Cheshire St, Wagga Wagga</li> </ul>	Activities based vibration monitoring	<ul> <li>Confirming that vibration levels are below criteria and that the effectiveness of actions and mitigation measures implemented are satisfactory</li> <li>In response to a vibration related complaint(s) (determined on a case-by-case basis)</li> </ul>	Throughout vibration generating activities being undertaken within minimum working distances to nearby receivers.	

# 9.0 Cumulative Impacts

Cumulative construction noise impacts can occur where multiple work activities are being completed near to a particular receiver at the same time. There is potential for cumulative construction impacts from multiple construction activities being completed in different areas of the project (ie Edmondson Street Bridge, and Cassidy Footbridge enhancement sites).

Since the construction scenarios required for various stages of the project would generally require similar items of equipment, concurrent construction work being completed near to a particular area could theoretically increase the worst-case noise levels in this report by around 3 dB (ie a logarithmic adding of two sources of noise at the same level).

The likelihood of worst-case noise levels being generated by two different work activities at the same time is, however, considered low and rather than increase construction noise levels, the impact of concurrent work would generally be a limited to a potential increase in the duration, and annoyance, of noise impacts on the affected receivers.

In practice, construction noise levels in any one location would vary and would be frequently much lower than the worst-case scenario assessed due to construction staging moving work around within the study area and, in many cases, only a few items of equipment being used at any one time.

Martinus Rail will take feasible and reasonable steps to consult and coordinate with other construction projects when they become aware of them and if they have the potential to impact the same receivers concurrently, to minimise cumulative impacts of noise and vibration and maximise respite for affected sensitive receivers (in accordance with CoA E72 and E83).





# Appendix A Acoustic Terminology

# A2I | Albury to Illabo – Wagga Wagga Utility Work

**Construction Noise and Vibration Impact Statement** 

Martinus Rail

SLR Project No.: 610.031317.00001

9 April 2025



#### 1. Sound Level or Noise Level

The terms 'sound' and 'noise' are almost interchangeable, except that 'noise' often refers to unwanted sound.

Sound (or noise) consists of minute fluctuations in atmospheric pressure. The human ear responds to changes in sound pressure over a very wide range with the loudest sound pressure to which the human ear can respond being ten million times greater than the softest. The decibel (abbreviated as dB) scale reduces this ratio to a more manageable size by the use of logarithms.

The symbols SPL, L or LP are commonly used to represent Sound Pressure Level. The symbol LA represents A-weighted Sound Pressure Level. The standard reference unit for Sound Pressure Levels expressed in decibels is  $2 \times 10^{-5}$  Pa.

#### 2. 'A' Weighted Sound Pressure Level

The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an 'A-weighting' filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

People's hearing is most sensitive to sounds at mid frequencies (500 Hz to 4,000 Hz), and less sensitive at lower and higher frequencies. Different sources having the same dBA level generally sound about equally loud.

A change of 1 dB or 2 dB in the level of a sound is difficult for most people to detect, whilst a 3 dB to 5 dB change corresponds to a small but noticeable change in loudness. A 10 dB change corresponds to an approximate doubling or halving in loudness. The table below lists examples of typical noise levels.

Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation	
130	Threshold of pain	Intolerable	
120	Heavy rock concert	Extremely noisy	
110	Grinding on steel		
100 Loud car horn at 3 m		Very noisy	
90	Construction site with pneumatic hammering		
80	80 Kerbside of busy street		
70	Loud radio or television		
60	Department store		
50	General Office	quiet	
40	0 Inside private office		
30	) Inside bedroom		
20	Recording studio	Almost silent	

Other weightings (eg B, C and D) are less commonly used than Aweighting. Sound Levels measured without any weighting are referred to as 'linear', and the units are expressed as dB(lin) or dB.

#### 3. Sound Power Level

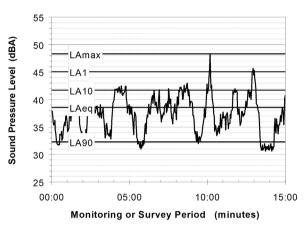
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit  $10^{-12}$  W.

The relationship between Sound Power and Sound Pressure is similar to the effect of an electric radiator, which is characterised by a power rating but has an effect on the surrounding environment that can be measured in terms of a different parameter, temperature.

#### 4. Statistical Noise Levels

Sounds that vary in level over time, such as road traffic noise and most community noise, are commonly described in terms of the statistical exceedance levels LAN, where LAN is the A-weighted sound pressure level exceeded for N% of a given measurement period. For example, the LA1 is the noise level exceeded for 1% of the time, LA10 the noise exceeded for 10% of the time, and so on.

The following figure presents a hypothetical 15 minute noise survey, illustrating various common statistical indices of interest.



#### Of particular relevance, are:

- LA1 The noise level exceeded for 1% of the 15 minute interval.
- LA10 The noise level exceeded for 10% of the 15 minute interval. This is commonly referred to as the average maximum noise level.
- LA90 The noise level exceeded for 90% of the sample period. This noise level is described as the average minimum background sound level (in the absence of the source under consideration), or simply the background level.
- LAeq The A-weighted equivalent noise level (basically, the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound.
- LAmax The A-weighted maximum sound pressure level of an event measured with a sound level meter.

#### 5. Frequency Analysis

Frequency analysis is the process used to examine the tones (or frequency components) which make up the overall noise or vibration signal.

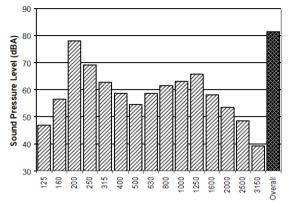
The units for frequency are Hertz (Hz), which represent the number of cycles per second.

Frequency analysis can be in:

- Octave bands (where the centre frequency and width of each band is double the previous band)
- 1/3 octave bands (three bands in each octave band)
- Narrow band (where the spectrum is divided into 400 or more bands of equal width)



The following figure shows a 1/3 octave band frequency analysis where the noise is dominated by the 200 Hz band. Note that the indicated level of each individual band is less than the overall level, which is the logarithmic sum of the bands.



1/3 Octave Band Centre Frequency (Hz)

#### 6. Annoying Noise (Special Audible Characteristics)

A louder noise will generally be more annoying to nearby receivers than a quieter one. However, noise is often also found to be more annoying and result in larger impacts where the following characteristics are apparent:

- Tonality tonal noise contains one or more prominent tones (ie differences in distinct frequency components between adjoining octave or 1/3 octave bands), and is normally regarded as more annoying than 'broad band' noise.
- Impulsiveness an impulsive noise is characterised by one or more short sharp peaks in the time domain, such as occurs during hammering.
- Intermittency intermittent noise varies in level with the change in level being clearly audible. An example would include mechanical plant cycling on and off.
- Low Frequency Noise low frequency noise contains significant energy in the lower frequency bands, which are typically taken to be in the 10 to 160 Hz region.

#### 7. Vibration

Vibration may be defined as cyclic or transient motion. This motion can be measured in terms of its displacement, velocity or acceleration. Most assessments of human response to vibration or the risk of damage to buildings use measurements of vibration velocity. These may be expressed in terms of 'peak' velocity or 'rms' velocity.

The former is the maximum instantaneous velocity, without any averaging, and is sometimes referred to as 'peak particle velocity', or PPV. The latter incorporates 'root mean squared' averaging over some defined time period.

Vibration measurements may be carried out in a single axis or alternatively as triaxial measurements (ie vertical, longitudinal and transverse). The common units for velocity are millimetres per second (mm/s). As with noise, decibel units can also be used, in which case the reference level should always be stated. A vibration level V, expressed in mm/s can be converted to decibels by the formula 20 log (V/Vo), where Vo is the reference level ( $10^{-9}$  m/s). Care is required in this regard, as other reference levels may be used.

#### 8. Human Perception of Vibration

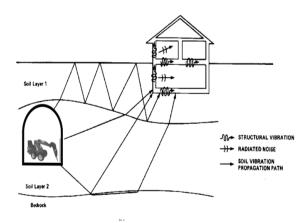
People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience and expectations, and on other connotations associated with the perceived source of the vibration. For example, the vibration that a person responds to as 'normal' in a car, bus or train is considerably higher than what is perceived as 'normal' in a shop, office or dwelling.

# 9. Ground-borne Noise, Structure-borne Noise and Regenerated Noise

Noise that propagates through a structure as vibration and is radiated by vibrating wall and floor surfaces is termed 'structure-borne noise', 'ground-borne noise' or 'regenerated noise'. This noise originates as vibration and propagates between the source and receiver through the ground and/or building structural elements, rather than through the air.

Typical sources of ground-borne or structure-borne noise include tunnelling works, underground railways, excavation plant (eg rockbreakers), and building services plant (eg fans, compressors and generators).

The following figure presents an example of the various paths by which vibration and ground-borne noise may be transmitted between a source and receiver for construction activities occurring within a tunnel.



The term 'regenerated noise' is also used in other instances where energy is converted to noise away from the primary source. One example would be a fan blowing air through a discharge grill. The fan is the energy source and primary noise source. Additional noise may be created by the aerodynamic effect of the discharge grill in the airstream. This secondary noise is referred to as regenerated noise.



# Appendix B Modelling Scenarios and Equipment

# A2I | Albury to Illabo – Wagga Wagga Utility Work

## **Construction Noise and Vibration Impact Statement**

**Martinus Rail** 

SLR Project No.: 610.031317.00001

9 April 2025



	Equipment Sound Power Level (Lw) <sup>2</sup>	Total Lw (dBA)	60 Articulated Dump Truck	0 Backhoe (with auger)	50 Chainsaw <sup>1</sup>	Cherry picker	00 Concrete agitator truck	00 Crane – Truck mounted	01 Drane (mobile)	& Crane Franna	66 Elevated Work Platform	05 Excavator - Tracked (20 tonne)	Secondary - Tracked (3-5 tonne)	0 Excavator (with Auger)	10    15T + Hammer <sup>1</sup>	Front End Loader	6 Generator - attenuated	Grader 601	Grinder <sup>1</sup>	100 Hand tools (electric)	ର Light Vehicle	Plate Compactor	Positrack	101 Loller - static	81 Saw – Concrete <sup>1</sup>	Tracked Hydraulic Drilling Rig <sup>1</sup>	103 Truck - Medium Rigid	Truck - road truck / Truck & Dog	100 Truck - Vacuum (NDD)	11 Tub Grinder/Mulcher <sup>1</sup>	Watercart	01 Welding Equipment
	Estimated utilisation (%)		25	100	50	30	100	30	30	30	25	50	50	50	30	50	100	50	30	75	25	100	50	100	25	100	25	25	100	100	75	100
ID	Construction Scenario																															
Edmond	Edmondson Street Bridge																															
W.001	Site Establishment / Demobilisation	113	1							1						1		1			2										1	
W.002	Compound Operation	104								1											2									ļ	1	1
W.003	Vegetation clearing	116			2						2																1			1		
W.004	Utility Work (Gas) - investigation and excavation	117	1							1					1						2	1			1		1		1			
W.005	Utility Work (Gas) - underbores	116	1	1									3								2					1	1		1			
W.006	Utility Work (Gas) - cutovers & make good	112								1			1							1	2	1					1					1
W.007	Utility Work (66kV) (day)	115								1		1										1			1		1		1	ļ		
W.008	Utility Work (66kV) (night outage 1)	113					1		2	2											3							1	1			
W.009	Utility Work (66kV) (night outage 2)	109			1	5			1		5										3											
W.010	Temporary Construction Hoarding	114					1	1	1	1		1		1			1			1			1	1			1	2			1	
W.011	School Fence Removal	106										1							1	1							1					
W.012	Tree Relocation	105							1			1									2						2					
Cassidy	Footbridge																															
W.013	Utility Work (Gas) protection works	113					1			1			1								1	1					1		1			
W.014	Utility Work - essential energy work	114	1								1		1								1				1			1	1			
W.015	Vegetation Clearing	116			2						2																1			1		
Pearson	Street Bridge																															
W.016	Utility Work (gas & water) - investigation and excavation	117	1												1						1	1			1		1		1			
W.017	Utility Work (water) - underbores	111		1									1								2						1		1			
W.018	Utility Work (gas & water) - cutovers & make good	112								1			1							1	1	1					1					1
W.019	Utility Work - essential energy work	103	1										1								1									]		
W.020	Vegetation Clearing	116			2						2																1			1		]
Note 1:	Equipment classed as 'annoying' in the ICN	C and r	auiroo	a E dD																												

Note 1: Equipment classed as 'annoying' in the ICNG and requires a 5 dB correction.

Note 2: Sound power level data is taken from the DEFRA Noise Database, AS2436 and TfNSW Construction Noise and Vibration Guideline.

#### 9 April 2025 SLR Project No.: 610.031317.00001 SLR Ref No.: 6-0052-210-EEC-W0-AS-0001\_0.3





# **Appendix C** Noise Impact Maps

## A2I | Albury to Illabo – Wagga Wagga Utility Work

### **Construction Noise and Vibration Impact Statement**

Martinus Rail

SLR Project No.: 610.031317.00001

9 April 2025

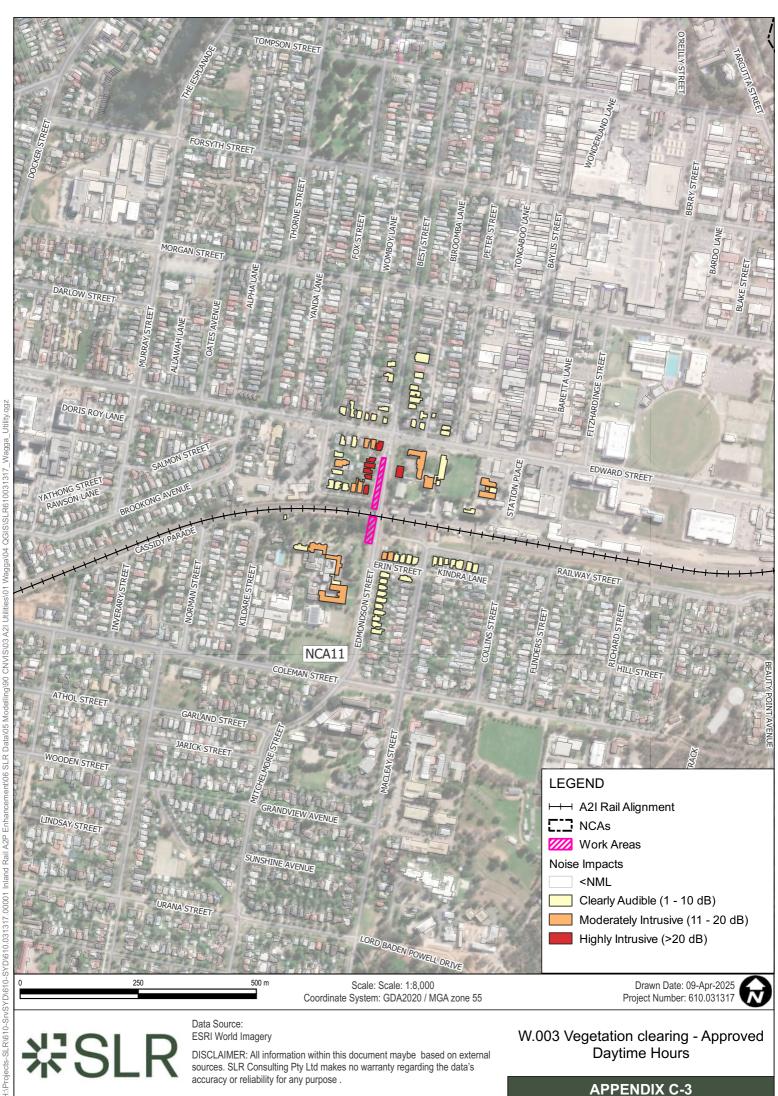




I Hility



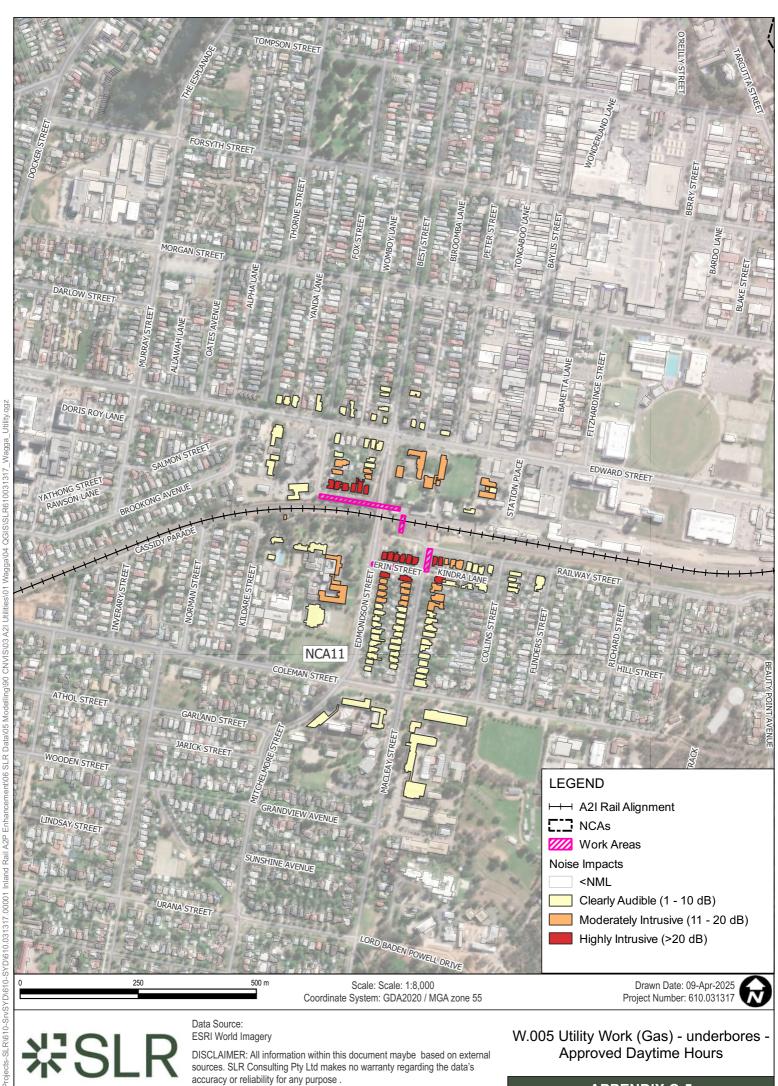
Utility



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DISCLAIMER: All information within this document maybe based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose .

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1) - Out of Hours Evening



DISCLAIMER: All information within this document maybe based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose .

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DISCLAIMER: All information within this document maybe based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose .

W.009 Utility Work (66kV) (night outage 2) - Out of Hours Daytime



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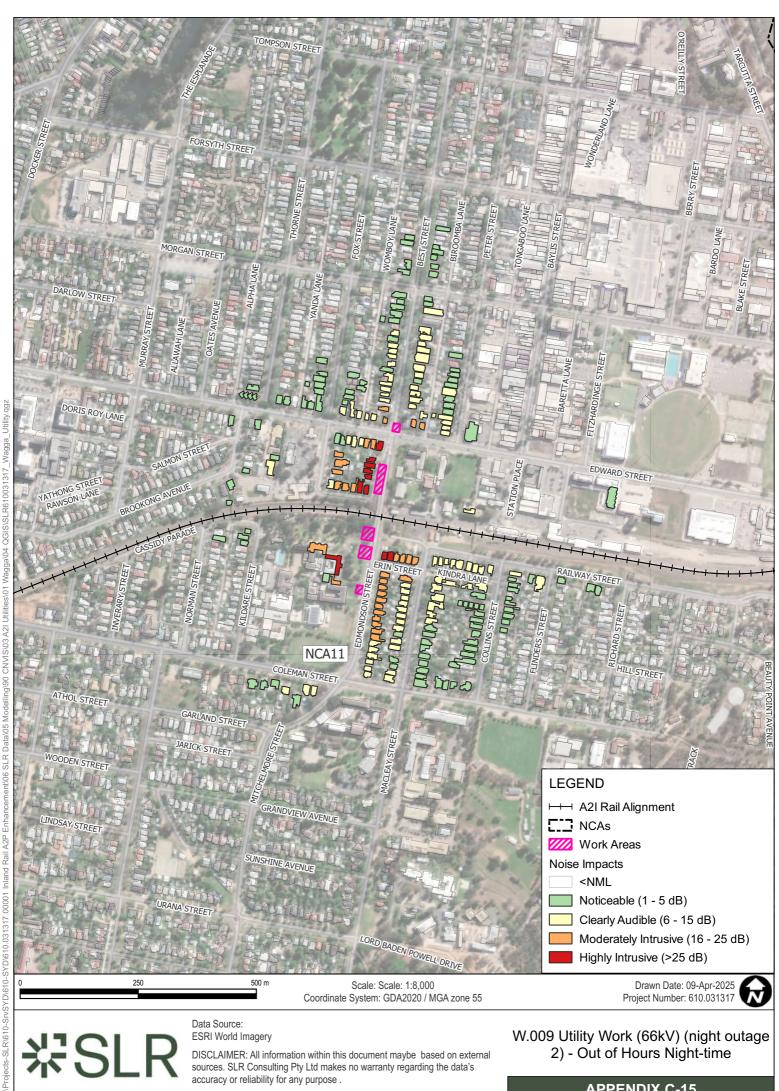
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W.009 Utility Work (66kV) (night outage 2) - Out of Hours Evening



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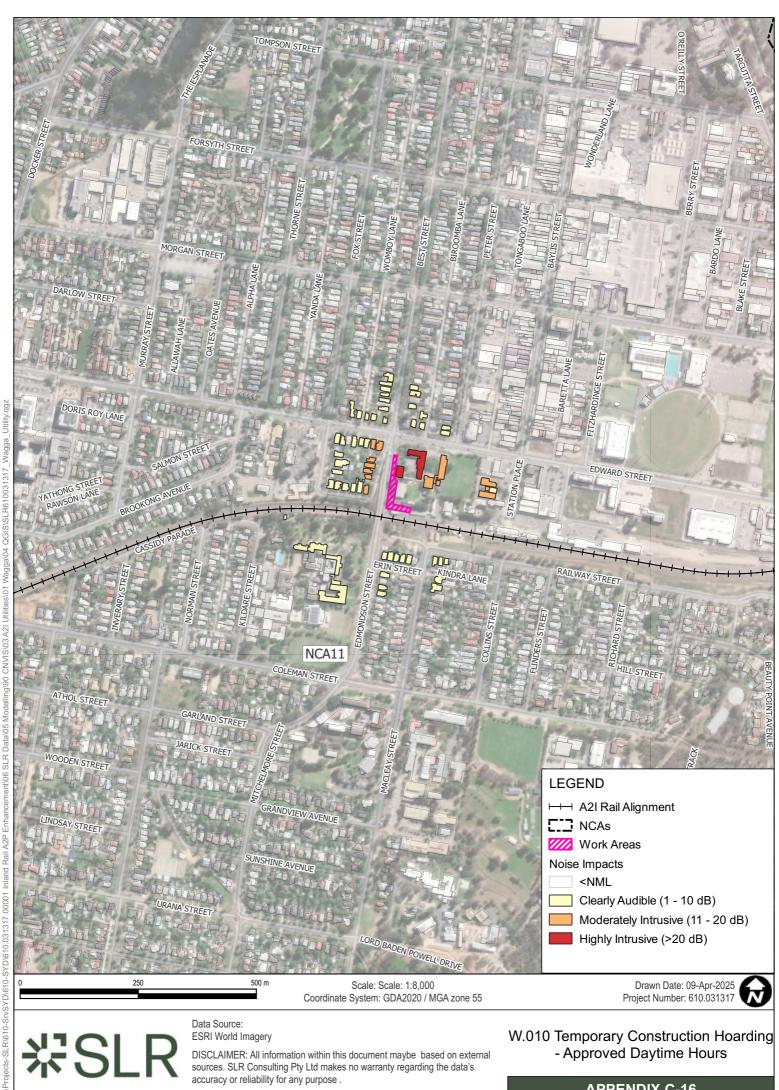
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W.009 Utility Work (66kV) (night outage 2) - Out of Hours Night-time







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ESRI World Imagery

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W.014 Utility Work - essential energy work - Out of Hours Daytime

**APPENDIX C-21** 



ESRI World Imagery

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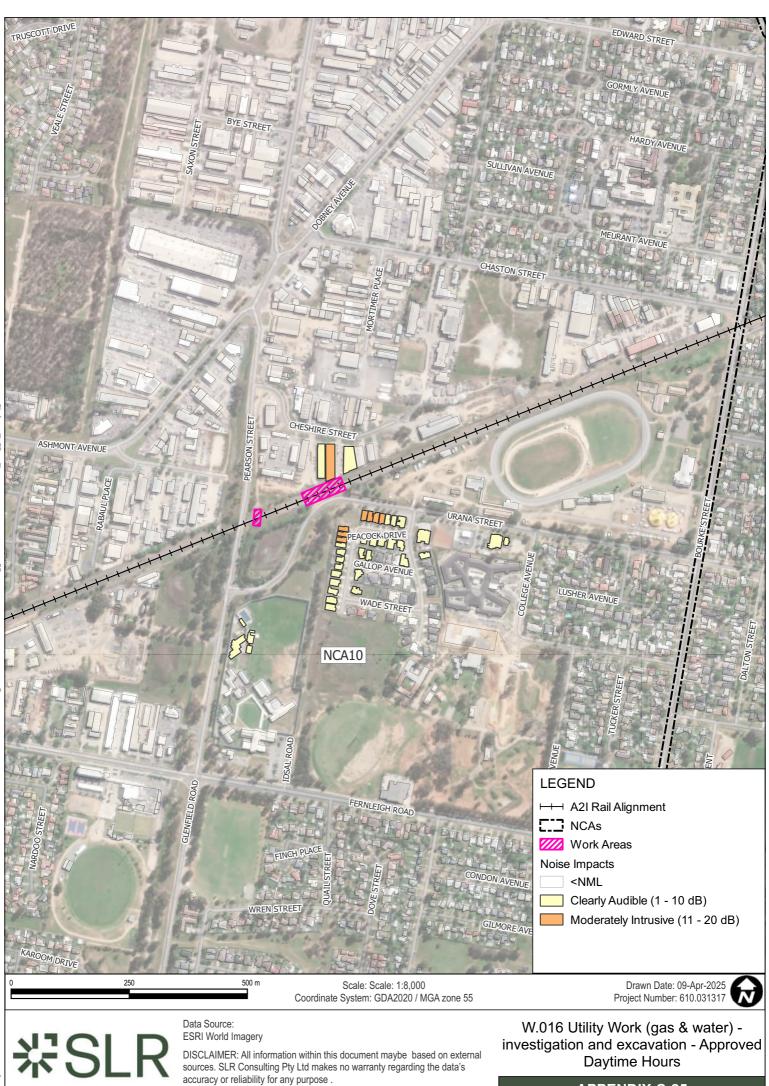
W.014 Utility Work - essential energy work - Out of Hours Evening

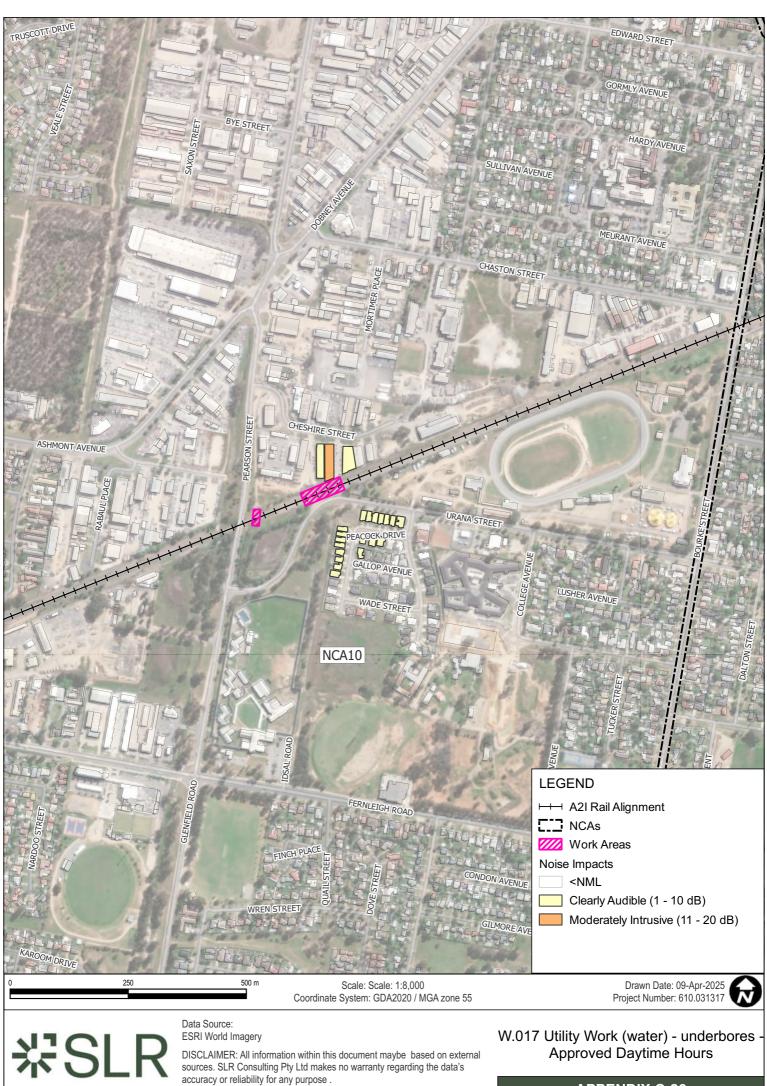


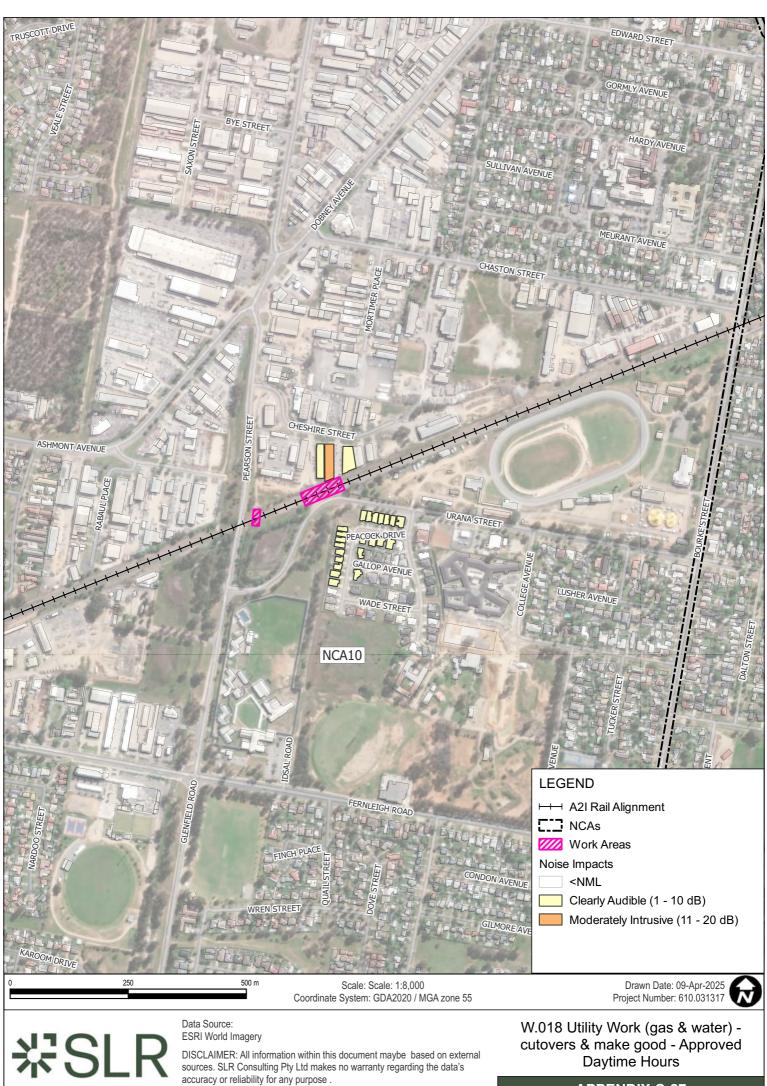
NProjects-SLR/610-SrvSYD/610.



Ufilitv





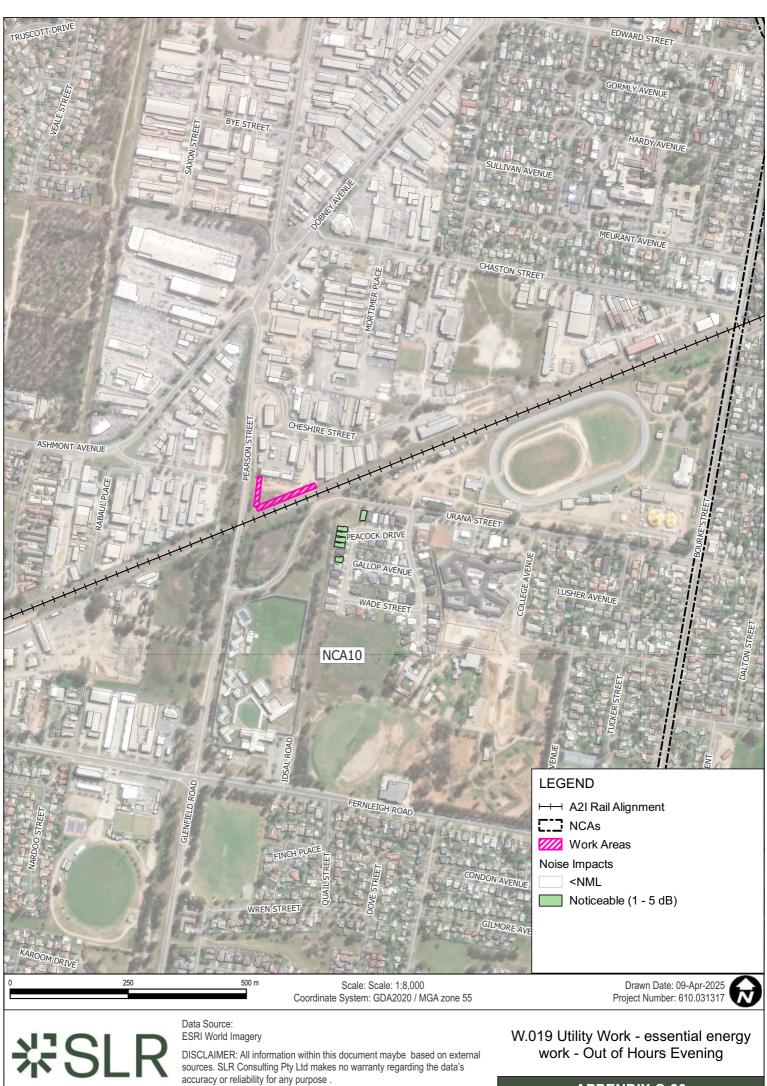


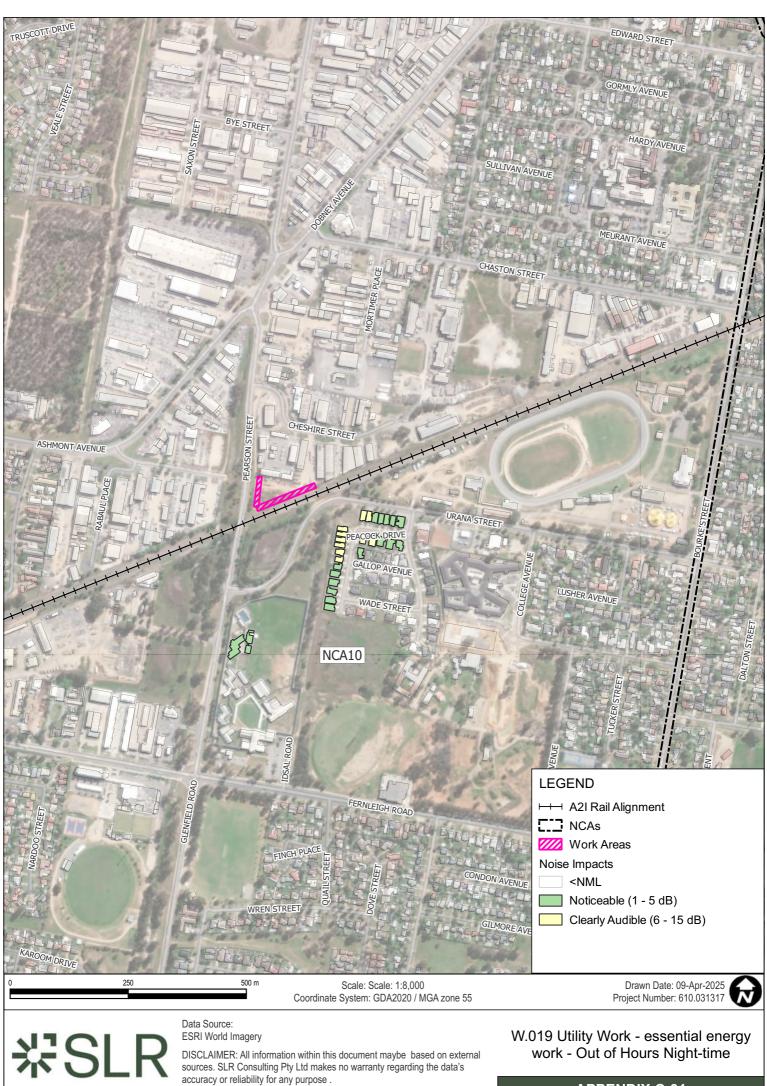


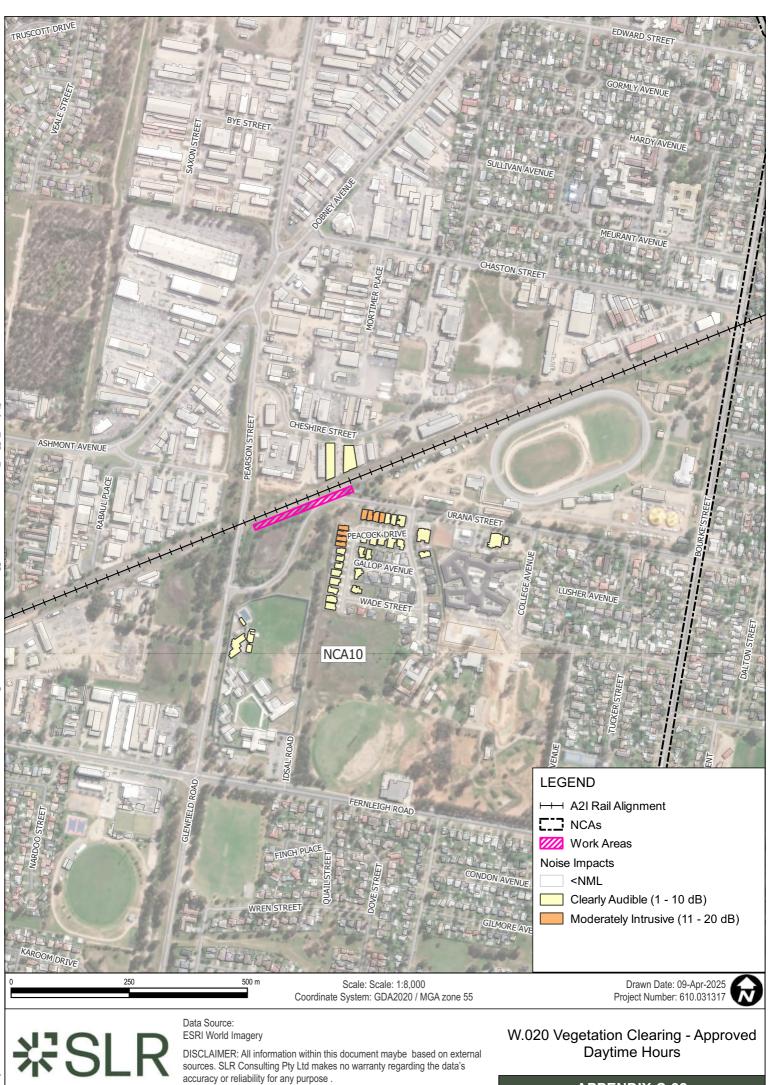
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work - Approved Daytime Hours









# Appendix D Receivers Triggering Additional Mitigation

## A2I | Albury to Illabo – Wagga Wagga Utility Work

### **Construction Noise and Vibration Impact Statement**

**Martinus Rail** 

SLR Project No.: 610.031317.00001

9 April 2025



#### W.008 Utility Work (66kV) (night outage 1)

W.008 Utility Work (66kV) (night outage 1)								
SLR ID ADDRESS	NML Daytime	NML Daytime OOH	NML Evening	NML Night-time	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Additional Mitigation Evening *(>2 consecutive rest periods)	Additional Mitigation Night *(>2 consecutive sleep periods)
212509 9 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
212780 16 GRANDVIEW AV, TURVEY PARK NSW 2650 212806 20 GRANDVIEW AV, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 44	-	- 1	CO1 CO1
212810 18 GRANDVIEW AV, TURVEY PARK NSW 2650 212824 22 GRANDVIEW AV, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44	-		CO1 CO1
213044 2 JARICK ST, TURVEY PARK NSW 2650 213233 4 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 45	-	-	CO1 CO1
213265 24 BEAUTY POINT AV, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
213414 3 COLEMAN ST, TURVEY PARK NSW 2650 213467 9 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 43	-		CO1 CO1
213496 18 BEAUTY POINT AV, TURVEY PARK NSW 2650 213519 2/11 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 43	-		CO1 CO1
213533 15 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1 CO1
213609 14 YOUNG ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 44	-	-	CO1
213610 61 FLINDERS ST, TURVEY PARK NSW 2650 213627 46 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 48	-		CO1 CO1
213634 2/19A COLEMAN ST, TURVEY PARK NSW 2650 213673 13 RICHARD ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 45	-		CO1 CO1
213683 63 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
213694 14 BEAUTY POINT AV, TURVEY PARK NSW 2650 213696 22 RICHARD ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 44	-	-	CO1 CO1
213701 57 FLINDERS ST, TURVEY PARK NSW 2650 213718 4 HILL ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 43	-		CO1 CO1
213735 42 COLEMAN ST, TURVEY PARK NSW 2650 213743 20 RICHARD ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 43	-		CO1 CO1
213746 48 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	43	-		CO1
213758         61 COLLINS ST, TURVEY PARK NSW 2650           213768         44 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 52	-	-	CO1 CO1
213777 56 FLINDERS ST, TURVEY PARK NSW 2650 213794 55 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 43	-		CO1 CO1
213800 60 COLLINS ST, TURVEY PARK NSW 2650 213810 23 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 49	-		CO1 CO1
213811 21 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	47	-	-	CO1
213821 59 COLLINS ST, TURVEY PARK NSW 2650 213828 29 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 48	-		CO1 CO1
213831 51-53 MACLEAY ST, TURVEY PARK NSW 2650 213841 54 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 44	-	-	CO1 CO1
21388 34 MACLEAY ST, TURVEY PARK NSW 2650 213885 57 COLLINS ST, TURVEY PARK NSW 2650	58	53 53	52 52 52	42	52 45	-	-	CO1 CO1
213909 52 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42 42	44	-	- 1	CO1
213918 49 MACLEAY ST, TURVEY PARK NSW 2650 213930 33 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 56	- CO1		CO1 CO1
213961 53 FLINDERS ST, TURVEY PARK NSW 2650 213966 28 HILL ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
213968 55 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
213970 32 MACLEAY ST, TURVEY PARK NSW 2650 213986 13 YOUNG ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	54 43	- CO1	-	CO1 CO1
213994 47 MACLEAY ST, TURVEY PARK NSW 2650 214000 5 HILL ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 43	-		CO1 CO1
214007 31 EDMONDSON ST, TURVEY PARK NSW 2650	58	53 53	52	42	56	CO1	CO1	CO1
214027 1/49 FLINDERS ST, TURVEY PARK NSW 2650 214029 30 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53	52 52	42 42	44 51	-	-	CO1 CO1
214035 53 COLLINS ST, TURVEY PARK NSW 2650 214047 47 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 43	-		CO1 CO1
214060 11 YOUNG ST, TURVEY PARK NSW 2650 214062 45 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 50	-	-	CO1 CO1
214075 29 EDMONDSON ST, TURVEY PARK NSW 2650	58	53	52	42	57	CO1	CO1	CO1
214092 54 COLLINS ST, TURVEY PARK NSW 2650 214102 51 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 46	-		CO1 CO1
214106 11 HILL ST, TURVEY PARK NSW 2650 214111 28 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 47	-		CO1 CO1
214132 46 FLINDERS ST, TURVEY PARK NSW 2650 214135 17 HILL ST, TURVEY PARK NSW 2650	58 58	53 53	52	42	43	-	- 1	CO1 CO1
214146 15 HILL ST, TURVEY PARK NSW 2650	58	53	52 52	42 42	43	-	-	CO1
214154 27 EDMONDSON ST, TURVEY PARK NSW 2650 214156 43 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	57 50	- CO1		CO1 CO1
214172 49 COLLINS ST, TURVEY PARK NSW 2650 214173 52 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 48	-		CO1 CO1
214176 26 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	CO1
214200 44 FLINDERS ST, TURVEY PARK NSW 2650 214233 25 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 57	- CO1	CO1	CO1 CO1
214241 25 HILL ST, TURVEY PARK NSW 2650 214254 50 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 49	-		CO1 CO1
214255 47 COLLINS ST, TURVEY PARK NSW 2650 214258 41 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 50	-	-	CO1 CO1
214261 43 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	44	-		CO1
214264 24 MACLEAY ST, TURVEY PARK NSW 2650 214281 42 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52	42 42	52 44	-	-	CO1
214307 23 EDMONDSON ST, TURVEY PARK NSW 2650 214320 39 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	58 51	CO1		CO1, CO2, (RO,AO)* CO1
214324 48 COLLINS ST, TURVEY PARK NSW 2650 214327 10 YOUNG ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42 42	51 43	-	-	CO1 CO1
214329 45 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
214338 22 MACLEAY ST, TURVEY PARK NSW 2650 214348 41 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	51 43	-	-	CO1 CO1
214361 40 FLINDERS ST, TURVEY PARK NSW 2650 214373 21 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 59	- CO1		CO1 CO1, CO2, (RO,AO)*
214395 9 RICHARD ST, TURVEY PARK NSW 2650 214399 43 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
214407 37 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 51	-	-	CO1 CO1
214410 20 MACLEAY ST, TURVEY PARK NSW 2650 214417 44 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 47	-	- 1	CO1 CO1
214427 37-39 FLINDERS ST, TURVEY PARK NSW 2650 214429 10 RICHARD ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 43	-		CO1 CO1
214439 38 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	CO1 CO1, CO2, (RO,AO)*
214443 19 EDMONDSON ST, TURVEY PARK NSW 2650 214459 41 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	58 47	CO1 -	- 1	CO1
214479 6 YOUNG ST, TURVEY PARK NSW 2650 214482 18 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 48	-	- 1	CO1 CO1
214487 35 MACLEAY ST, TURVEY PARK NSW 2650 214488 3 BURWOOD ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	51 44	-	-	CO1 CO1
214493 3 YOUNG ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	- 1	CO1
214504 5 BURWOOD ST, TURVEY PARK NSW 2650 214509 36 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 44	-	- 1	CO1 CO1
214512 42 COLLINS ST, TURVEY PARK NSW 2650 214515 35 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 46	-	-	CO1 CO1
214519 17 EDMONDSON ST, TURVEY PARK NSW 2650 214549 16 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	59 52	CO1	CO1	CO1, CO2, (RO,AO)* CO1
214551 39 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	48	-	- 1	CO1
214557 33 MACLEAY ST, TURVEY PARK NSW 2650 214567 40 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 50	-	-	CO1 CO1
214577 15 EDMONDSON ST, TURVEY PARK NSW 2650 214603 2 YOUNG ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	60 43	CO1	CO1	CO1, CO2, (RO,AO)* CO1
214604 33 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	- 1	CO1
214612 14 MACLEAY ST, TURVEY PARK NSW 2650 214617 37 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 48	-	- 1	CO1 CO1
214631 31 MACLEAY ST, TURVEY PARK NSW 2650 214634 38 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 50	-		CO1 CO1
214645 13 EDMONDSON ST, TURVEY PARK NSW 2650 214656 4 RICHARD ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	61 43	CO1	CO1	CO1, CO2, (RO,AO)* CO1
214678 31 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	- 1	CO1
214686 38 RAILWAY ST, TURVEY PARK NSW 2650 214688 12 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 52	-	-	CO1 CO1
214689 35 COLLINS ST, TURVEY PARK NSW 2650 214690 42 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 43	-		CO1 CO1
		. ~~	~			1	ı I	

DISCLAIMER: Address data within this document is based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.

#### W.008 Utility Work (66kV) (night outage 1)

		lity Work (66kV) (night outage 1)								
ALC         ALC <th>SIRID</th> <th>ADDRESS</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Evening</th> <th>Night</th>	SIRID	ADDRESS							Evening	Night
No.         No. <td>214714 3 214717 1</td> <td>0 FLINDERS ST, TURVEY PARK NSW 2650 1 EDMONDSON ST, TURVEY PARK NSW 2650</td> <td>58 58</td> <td>53 53</td> <td>52 52</td> <td>42 42</td> <td>46 62</td> <td>- CO1</td> <td>- CO1</td> <td>CO1 CO1, CO2, (RO,AO)*</td>	214714 3 214717 1	0 FLINDERS ST, TURVEY PARK NSW 2650 1 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 62	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
14.30         14.30         15.40 <th< td=""><td>214727 3</td><td>3/36 COLLINS ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>50</td><td>-</td><td></td><td>CO1</td></th<>	214727 3	3/36 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	50	-		CO1
101         1010000000000000000000000000000000000	214736 5	2 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	•	CO1
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	214748 2	9 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	•	CO1
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	214768 5	6 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	214781 5	4 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
BAD         BAD <td>214789 5</td> <td>8 RAILWAY ST, TURVEY PARK NSW 2650</td> <td>58</td> <td>53</td> <td>52</td> <td>42</td> <td>45</td> <td>-</td> <td>•</td> <td>CO1</td>	214789 5	8 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	•	CO1
Desc         Desc <thdesc< th="">         Desc         Desc         <thd< td=""><td>214793 8</td><td>MACLEAY ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>49</td><td>-</td><td>•</td><td>CO1</td></thd<></thdesc<>	214793 8	MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	49	-	•	CO1
matrix bit is the result of the resu	214826 2	7 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	46	- CO1	-	CO1
BADE         BADE         CADE         CADE <thcade< th="">         CADE         CADE         <thc< td=""><td>214831 6</td><td>2 RAILWAY ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>46</td><td>-</td><td>•</td><td>CO1</td></thc<></thcade<>	214831 6	2 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	•	CO1
	214850 2	29 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	CO1
	214865 6	6 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	54	- CO1	- CO1	CO1
	214874 6	8 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	47	-	•	CO1
	214901 2	25 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	60			CO1, CO2, (RO,AO)*
	214911 73	2 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	47	-	-	CO1
Bills         Bills All of a large of many and grands         Sol A	214920 3	80 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	54	- CO1		CO1
BADE         BADE         SA         SA         SA         SA         SA         SA         COL         COL <thcol< th=""> <thcol< th="">         COL</thcol<></thcol<>	214926 4	MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	55	- CO1		CO1
	214939 23	3 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	57			CO1
	214961 7	4 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	52	- CO1, CO2	-	CO1
SHOP         NULLEX YT TUREYT RANK 1992 (20)         64         91         64         91         65         DD1         DD1<	214981 2	3 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	59	- CO1	- CO1	CO1, CO2, (RO,AO)*
Second         Diversion of T. UNEX PARK 1992 200         00         03         03         04         04         04         05	214990 2	2 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	65	- CO1	- CO1	CO1, CO2, (RO,AO)*
960000         96000000000000000000000000000000000000	215023 1	EDMONDSON ST, TURVEY PARK NSW 2650	58	53	52	42	71	- CO1, CO2	- CO1, CO2	CO1, CO2, RO, (AO, AltA)*
BARD         MALANAY T. UNCY TARK NO 200         So         A.         So         G.         So	215072 8	2 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	57			CO1
21512         MALLAN ST, LINEY PARK 189 200         9	215078 8	34 RAILWAY ST. TURVEY PARK NSW 2650	58	53	52	42	57	CO1	CO1	CO1
Bissel Back Bart TUNEYTY ARK NS 280         Sol Dec 1         Control Dec 1 <thcontrol 1<="" dec="" th="">         Control Dec 1</thcontrol>	215126 8	88 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	57	CO1	CO1	CO1
21990         Deck         Col         Col<	215147 1	2 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
1918         FERN FT UNGV PAR NOV 200         6         53         6         4         64         CO1	215160 93	2 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	58	CO1	CO1	CO1, CO2, (RO,AO)*
1919         EPRIN ST. UNING YF MARK 1893 2800         96         93         92         94         96         COI         CO	215163 1	ERIN ST, TURVEY PARK NSW 2650	58	53	52	42	64	CO1	CO1	CO1, CO2, (RO,AO)*
12151         DENN ST. UNIVEY PARK NOV 2800         6        6        6        6 <th< td=""><td>215190 5</td><td>ERIN ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>66</td><td>CO1</td><td>CO1</td><td>CO1, CO2, (RO,AO)*</td></th<>	215190 5	ERIN ST, TURVEY PARK NSW 2650	58	53	52	42	66	CO1	CO1	CO1, CO2, (RO,AO)*
Series         11 ERBs ST TURKY PARK NRY 200         6         6         5         9         4.2         75         CD1, CD2         CD1, CD2, R0, AG, ABY           21518         11 ERBs ST TURKY PARK NRY 200         6         15         2         4         1         1         CD1           21518         11 ERBs ST TURKY PARK NRY 200         6         15         2         4         1         1         CD1           21518         11 ERBS ST TURKY PARK NRY 200         9         13         9         4         4         1         1         CD1           21518         12 RUAR ST TURKY PARK NRY 200         9         13         9         4         4         1         1         CD1         CD1           21518         12 RUAR ST TURKY PARK NRY 200         9         13         8         4         4         1         1         CD1	215216 9	ERIN ST, TURVEY PARK NSW 2650	58	53	52	42	73			CO1, CO2, RO, (AO, AltA)*
12532         BR LIDBRE 5T TURKTY PARK NW 2000         40         50         52         42         44         -         -         CO1           21532         BR LIDBRE 5T TURKTY PARK NW 2000         60         50         52         42         42         44         -         -         -         CO1           21532         BR LIDBRE 5T TURKTY PARK NW 2000         60         50         52         42         44         -         -         CO1           21543         REDBRE 5T TURKTY PARK NW 2000         60         50         52         42         44         -         -         CO1           21541         REBRE TURKTY PARK NW 2000         60         50         52         42         43         -         -         CO1         CO1           21541         REBRE NW 2000         60         53         52         42         44         -         -         CO1         C	215219 1	1 ERIN ST, TURVEY PARK NSW 2650	58	53	52	42	75	- CO1, CO2	- CO1, CO2	CO1, CO2, RO, (AO, AltA)*
12586         M LDARE ST TURYUY PARK NW 2800         68         63         52         42         61         -         -         COIT           21586         M MAGA WAGA WW 2800         68         53         52         42         44         -         -         COIT           21586         M MAGA WAGA WW 2800         68         53         52         42         44         -         -         COIT           21586         M MAGA WAGA WAGA WW 2800         68         53         52         42         43         -         -         COIT           21597         M MAGA WAGA WAGA WW 2800         68         53         52         42         43         -         -         COIT           21597         M MAGA WAGA WAGA WW 2800         68         53         52         42         44         -         -         COIT         COIT         COIT         -         COIT         COIT<	215283 8	3 KILDARE ST, TURVEY PARK NSW 2650								
21412         2 KIDARE 51 TURY FRAME NEW 2800         96         93         92         42         44         -         -         CO1           21450         48 BOOKOGA W. WIGGA WAGA NEW 2800         96         83         92         42         43         -         -         C01           21450         44 BOOKOGA W. WIGGA WAGA NEW 2800         96         83         92         42         43         -         -         C01           21450         45 BOOKOGA W. WIGGA WAGA NEW 2800         96         83         92         42         44         -         -         C01           21500         58 BOOKOGA W. WIGGA WAGA NEW 2800         96         83         92         42         44         -         -         C01           21500         58 BOOKOGA W. WIGGA WAGA NEW 2800         96         63         7         -         37         C01         -<		KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	48	-	-	CO1
1949         de Berockene A.Y. WAGA WAGA NEW 280         96         63         92         42         43         -         -         -         CO1           1950         ME BEROCKEN A.Y. WAGA WAGA NEW 280         98         93         92         42         43         -         CO1         CO1           1950         SB ROOKNE A.Y. WAGA WAGA NEW 280         98         93         92         42         44         -         -         CO1         CO1           1950         SB ROOKNE A.Y. WAGA WAGA NEW 280         98         93         92         42         44         -         -         CO1	215356 3 215365 4	NORMAN ST, TURVEY PARK NSW 2650 KILDARE ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 47 51	- - -	- - - -	CO1 CO1 CO1
25551         INSTATION PL, WAGA WAGA NEW 2860         96         53         52         42         47         OD1         OD1           25567         REBROXING AL, WAGA WAGA NEW 2860         98         53         52         42         43         -         -         C01           25560         REBROXING AL, WAGA WAGA NEW 2860         98         53         52         42         44         -         -         C01           25560         REBROXING AL, WAGA WAGA NEW 2860         98         53         52         42         44         -         -         C01         C01 </td <td>215356 3 215365 4 215403 1 215412 2</td> <td>8 NORMAN ST, TURVEY PARK NSW 2650 HILDARE ST, TURVEY PARK NSW 2650 NORMAN ST, TURVEY PARK NSW 2650 HILDARE ST, TURVEY PARK NSW 2650</td> <td>58 58 58 58 58 58</td> <td>53 53 53 53 53 53</td> <td>52 52 52 52 52 52</td> <td>42 42 42 42 42 42</td> <td>48 47 51 44 48</td> <td>•           •           •           •           •           •           •           •</td> <td>- - - - - - - -</td> <td>CO1 CO1 CO1 CO1 CO1 CO1</td>	215356 3 215365 4 215403 1 215412 2	8 NORMAN ST, TURVEY PARK NSW 2650 HILDARE ST, TURVEY PARK NSW 2650 NORMAN ST, TURVEY PARK NSW 2650 HILDARE ST, TURVEY PARK NSW 2650	58 58 58 58 58 58	53 53 53 53 53 53	52 52 52 52 52 52	42 42 42 42 42 42	48 47 51 44 48	•           •           •           •           •           •           •           •	- - - - - - - -	CO1 CO1 CO1 CO1 CO1 CO1
21556         BB BROCKNIG AV, MAGGA NAW 260         96         63         62         42         43	215356 3 215365 4 215403 1 215412 2 215460 4 215491 4	I NORMAN ST. TURVEY PARK NSW 2650 I KILDARE ST, TURVEY PARK NSW 2650 I NORMAN ST, TURVEY PARK NSW 2650 I KILDARE ST. TURVEY PARK NSW 2650 I 8 BROOKONG AV, WAGGA WAGGA NSW 2650 I 6 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58 58 58 58 58 58 58	53 53 53 53 53 53 53 53	52 52 52 52 52 52 52 52 52	42 42 42 42 42 42 42 42 42 42	48 47 51 44 48 44 43	- - - - - - - - - - -	* * * * * * * * * * * * * * * * * * *	CO1         CO1           CO1         CO1           CO1         CO1           CO1         CO1           CO1         CO1
25588         610 STATION FL, WAGGA WAGGA NSW 2860         46         45         -         57         CO1         -         -         57           215978         200HKUL MY, WAGGA WAGGA NSW 2860         98         53         62         42         61         C01.C02         C01.C02, R0.ADA)*           21977         BUDINELL MY, WAGGA WAGGA NSW 2850         98         53         62         42         64         C01.C02         C01.C02, R0.ADA,*           21977         BUDINELL MY, WAGGA WAGGA NSW 2850         98         53         62         42         64         C01.C02         C01.C02, R0.ADA,*           21977         BUDINELL MY, WAGGA WAGGA NSW 2850         98         53         62         42         64         C01         C01.C02, R0.ADA,*           21978         IPERDWAGGA NAGGA NSW 2850         98         53         52         42         63         C01         C01.C02, R0.ADA,*           21978         IPERDWAGGA NAGGA NSW 2850         98         53         52         42         43         C01         C01         C01.C02, R0.ADA,*           219780         IPERDWAGGA NWAGGA NSW 2850         98         53         52         42         44         51         C01         C01         C01.C02, R0.ADA,*     <	215356 3 215365 4 215403 1 215412 2 215460 4 215491 4 215499 4 215551 1	I NORMAN ST. TURVEY PARK NSW 2650 I KILDARE ST. TURVEY PARK NSW 2650 NORMAN ST. TURVEY PARK NSW 2650 KILDARE ST. TURVEY PARK NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 I6 BROOKONG AV, WAGGA WAGGA NSW 2650 4 BROOKONG AV, WAGGA WAGGA NSW 2650 4 STATION PL, WAGGA WAGGA NSW 2650	58 58 58 58 58 58 58 58 58 58 58	53 53 53 53 53 53 53 53 53 53	52 52 52 52 52 52 52 52 52 52 52	42 42 42 42 42 42 42 42 42 42 42 42	48 47 51 44 48 44 43 43 57	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001
215717       BULDNG 3 UNT 100 1 FLURERS ST, WAGGA NW 2650       58       53       52       42       45       -       -       CO1       CO1, CO2, RO, (AO, AM)*         21572       BOOMELLY AV, WAGGA WAGGA NW 2650       58       53       52       42       66       CO1       CO1, CO2, RO, (AO, AM)*         21572       BOOMELLY AV, WAGGA WAGGA NW 2650       58       53       52       42       66       CO1       CO1       CO1, CO2, RO, (AO, AM)*         21574       DOMELLY AV, WAGGA WAGGA NW 2650       58       58       52       42       66       CO1	215356 3 215365 4 215403 1 215412 2 215400 4 215499 4 2155499 4 215551 1 215570 3 215618 3	I NORMAN ST. TURVEY PARK NSW 2650 KILDARE ST. TURVEY PARK NSW 2650 NORMAN ST. TURVEY PARK NSW 2650 KILDARE ST. TURVEY PARK NSW 2650 18 BROOKONG AV, WAGGA NSW 2650 16 BROOKONG AV, WAGGA MAGGA NSW 2650 14 BROOKONG AV, WAGGA WAGGA NSW 2650 4 STATION PL, WAGGA WAGGA NSW 2650 16 BROOKONG AV, WAGGA MAGGA NSW 2650 26 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58 58 58 58 58 58 58 58 58 58 58	53 53 53 53 53 53 53 53 53 53 53	52 52 52 52 52 52 52 52 52 52 52 52 52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48 47 51 44 48 44 43 43 43 43 43 43 43 44	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001
21572:       B DONNELLY AV, WAGGA NW 3660       68       53       52       42       64       C01       C01       C01, C02, (R0,A0)*         21578:       B DONNELLY AV, WAGGA NW 3660       68       53       52       42       64       C01       C01       C01, C02, (R0,A0)*         21578:       B DONNELLY AV, WAGGA NW 3660       88       53       52       42       64       C01       C01       C01, C02, (R0,A0)*         21579:       D DONNELLY AV, WAGGA NW 3660       88       53       52       42       49       -       -       C01       C01       C01, C02, (R0,A0)*         21579:       1 570 NM 40GA NW 366A NSW 2850       68       45       -       -       49       C01       -       -       C01       C01, C02, (R0,A0)*	215356 3 215365 4 215403 1 215412 2 215460 4 215491 4 215499 4 215551 1 215557 3 215678 3 215689 6	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>KILDARE ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DI STATION PL, WAGGA WAGGA NSW 2650</li> </ul>	58 58 58 58 58 58 58 58 58 58 58 58 58 5	53 53 53 53 53 53 53 53 53 53 53 53 53 45	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48 47 51 44 43 43 43 57 43 43 43 43 57 57	- - - CO1	- - -	001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001           001         001
215746       12 DONNELLY AV, WAGGA NAWGAN NSW 2550       68       53       52       42       61       C01       C01       C01, C02, (R0, A0)*         215746       104 EVAMRS 5T, WAGGAN NSGAN NSW 2550       68       63       62       42       48       -       -       C01         215747       104 EVAMRS 5T, WAGGAN NSGAN NSW 2550       68       53       52       42       48       -       -       C01       C01, C02, (R0, A0)*         215747       104 EVAMRS 5T, WAGGAN WAGGAN NSW 2550       68       53       52       42       46       -       -       -       C01       C01, C02, (R0, A0)*         215749       114 EVRST ST, WAGGAN WAGGAN NSW 2550       68       53       52       42       44       -       -       C01       C01, C02, (R0, A0, A1, M0)*         215807       128 ROCKORA AV, WAGGAN NSW 2550       68       53       52       42       44       -       -       C01       C01, C02, (R0, A0, A1, M1)*       -       C01       C01, C02, (R0, A0, A1, M2)       -       C01       C01, C02, (R0, A0, A1, M2)       -       -       C01       C01, C02, (R0, A0, A1, M2)       -       -       -       C01       C01, C02, (R0, A1, M2)       -       -       -       -       -	215356 3 215365 4 215403 1 215412 2 215400 4 215491 4 215491 4 215551 1 215551 1 215570 3 215618 3 215658 3 215654 3 215659 6 215707 8 2	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>RIDARE ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONDELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> </ul>	58 58 58 58 58 58 58 58 58 58 58 58 58 5	53 53 53 53 53 53 53 53 53 53 53 53 45 53 53 53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48 47 51 44 43 43 43 57 43 43 43 43 57 57 82 45	- - - CO1 CO1, CO2 -	- - - CO1, CO2, (RO)* -	C01         C01
215749       0 DONCHUAY, WAGA WAGA NSW 2860       58       53       52       42       49       -       -       CO1         215750       0 DONCHUAY, WAGA WAGA NSW 2850       58       53       52       42       63       CO1       -	215356 3 215365 4 215403 1 215412 2 215460 4 215491 4 215491 4 215591 1 215551 1 215557 3 215618 3 215654 3 215654 9 215708 2 215717 B 215724 4 215724 4	I NORMAN ST, TURVEY PARK NSW 2650 I NORMAN ST, TURVEY PARK NSW 2650 I NORMAN ST, TURVEY PARK NSW 2650 I ILDARE ST, TURVEY PARK NSW 2650 I BROOKONG AV, WAGGA WAGGA NSW 2650 I BROOKONG AV, WAGGA WAGGA NSW 2650 I BROOKONG AV, WAGGA WAGGA NSW 2650 I S BROOKONG AV, WAGGA WAGGA NSW 2650 I S BROOKONG AV, WAGGA WAGGA NSW 2650 I D BROOKONG AV, WAGGA MSW 2650 I D BROOKONG AV, WAGGA NSW 2650 I D D BROOKONG AV, WAGGA NSW 2650 I D D BROOKONG AV, WAGGA NSW 2650 I D D NHELLY AV, WAGGA WAGGA NSW 2650 I D D NHELY AV, WAGGA WAGGA NSW 2650 I D NHE I NH	58 58 58 58 58 58 58 58 58 58 58 58 58 5	53 53 53 53 53 53 53 53 53 53 53 53 53 5	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48 47 51 44 43 43 43 43 43 43 43 43 43 43 57 57 57 82 45 75 64	- - CO1 CO1, CO2 - CO1, CO2 CO1	- - - - CO1, CO2, (RO)* - - CO1, CO2 CO1	C01         C01           C01         C02           C01         C02           C01         C02           C01         C01           C01         C02           C01         C02           C01         C01
215760       24 STATION PL, WAGGA WAGGA NSW 250       45       45       -       49       CO1       -       CO1       -         215784       FLINERS ST, WAGGA WAGGA NSW 250       58       53       52       42       46       -       -       CO1         215799       SLUTLE BEST ST, WAGGA WAGGA NSW 250       58       53       52       42       44       -       -       CO1         215809       DI ROXONG AV, WAGGA NSW 250       58       53       52       42       44       -       -       CO1         215809       DI ROXONG AV, WAGGA NSW 250       58       53       52       42       44       -       -       CO1       CO1 <td>215356 3 215365 4 215365 4 215365 4 215403 1 215400 4 215491 4 215491 4 215491 4 215591 1 215551 1 215551 1 215551 3 215689 6 215708 2 215777 8 215777 8 215725 6 215725 6 215731 8</td> <td>I NORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 IS BROOKONG AV, WAGGA MSW 2650 IS BROOKONG AV, WAGGA NSW 2650 IS DROOKONG AV, WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 I DONNELLY AV, WAGGA WAGGA NSW 2650</td> <td>58 58 58 58 58 58 58 58 58 58 58 58 58 5</td> <td><math display="block">\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\</math></td> <td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td> <td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td> <td>48 47 51 44 43 43 43 57 43 44 43 57 83 44 43 57 82 45 75 64 63 61</td> <td>- - - CO1 CO1, CO2 - CO1, CO2 CO1 CO1</td> <td>- </td> <td>CO1         CO1           CO1         CO2           CO1         CO2</td>	215356 3 215365 4 215365 4 215365 4 215403 1 215400 4 215491 4 215491 4 215491 4 215591 1 215551 1 215551 1 215551 3 215689 6 215708 2 215777 8 215777 8 215725 6 215725 6 215731 8	I NORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 IS BROOKONG AV, WAGGA WAGGA NSW 2650 IS BROOKONG AV, WAGGA MSW 2650 IS BROOKONG AV, WAGGA NSW 2650 IS DROOKONG AV, WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 I DONNELLY AV, WAGGA WAGGA NSW 2650	58 58 58 58 58 58 58 58 58 58 58 58 58 5	$\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48 47 51 44 43 43 43 57 43 44 43 57 83 44 43 57 82 45 75 64 63 61	- - - CO1 CO1, CO2 - CO1, CO2 CO1 CO1	- 	CO1         CO1           CO1         CO2
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215800       104 EDWARD ST, WAGGA WAGGA NSW 2850       60       60       46       48       -       -       CO1         215802       158 KOKONG AV, WAGGA WAGGA NSW 2850       58       53       52       42       44       -       CO1       CO1, CO2, (R0.A0)*         215835       158 KOKONG AV, WAGGA WAGGA NSW 2850       58       53       52       42       44       -       CO1       CO1       CO1, CO2, (R0.A0)*         215845       17 BROOKONG AV, WAGGA WAGGA NSW 2850       58       53       52       42       45       -       -       CO1       CO1, CO2, (R0.A0)*         215846       117 BROOKONG AV, WAGGA WAGGA NSW 2850       58       53       52       42       43       CO1, CO2, (R0)*       CO1, CO2, (R0)*       CO1, CO2, (R0)*       CO1, CO2, R0, (AO, AIA)*         215846       117 BROOKONG AV, WAGGA WAGGA NSW 2850       58       53       52       42       43       -       CO1       CO1       CO1       CO1       CO1       CO1, CO2, (R0)*       CO1, CO2, (R0, AV, WAGGA WAGGA NSW 2850       58       53       52       42       64       CO1       CO1 <td>215356 3 215365 4 215365 4 215365 4 215403 1 215403 1 215402 4 215491 4 215491 4 215491 4 215551 1 215551 1 215551 3 215654 3 215654 3 215654 3 215708 2 215777 B 215724 4 215725 6 215731 8 215748 11 215748 11 215748 12</td> <td>I NORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 ILDARE ST, TURVEY PARK NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DROKEN AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 ID DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS DONNELY AV, WAGGA WAGGA NSW 2650 IS DONNELY AV, WAGGA WAGGA NSW 2650 IS STRUEN ANG AV WAGGA WAGGA NSW 2650 IS STRUEN ANG AV WAGGA WAGGA NSW 2650 IS STRUEN AV 250 IS STRUEN AV 250 IS STRUEN ANG AV WAGGA WAGGA NSW 2650 IS STRUEN ANG AV WAGGA NSW 2650 IS STRUEN AV ANG AV WAGG</td> <td>58           58</td> <td>53           53</td> <td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td> <td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td> <td>48           47           51           44           44           43           57           43           43           57           82           45           75           63           61           48           49           63</td> <td>- - - CO1 CO1 CO2 - - CO1 CO2 CO1 CO1 CO1 CO1 - - - - - - - - - - - - -</td> <td>- - - - - - - - - - - - - - - - - - -</td> <td>CO1         CO1           CO1         CO2, RO, (AO, AltA)*           CO1, CO2, (RO, AO)*         CO1, CO2, (RO, AO)*           CO1, CO2, (RO, AO)*         CO1           CO1, CO2, (RO, AO)*         CO1           CO1, CO2, (RO, AO)*         CO1           CO1, CO2, (RO, AO)*         CO1</td>	215356 3 215365 4 215365 4 215365 4 215403 1 215403 1 215402 4 215491 4 215491 4 215491 4 215551 1 215551 1 215551 3 215654 3 215654 3 215654 3 215708 2 215777 B 215724 4 215725 6 215731 8 215748 11 215748 11 215748 12	I NORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 ILDARE ST, TURVEY PARK NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DROKEN AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 ID DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS DONNELLY AV, WAGGA WAGGA NSW 2650 IS DONNELY AV, WAGGA WAGGA NSW 2650 IS DONNELY AV, WAGGA WAGGA NSW 2650 IS STRUEN ANG AV WAGGA WAGGA NSW 2650 IS STRUEN ANG AV WAGGA WAGGA NSW 2650 IS STRUEN AV 250 IS STRUEN AV 250 IS STRUEN ANG AV WAGGA WAGGA NSW 2650 IS STRUEN ANG AV WAGGA NSW 2650 IS STRUEN AV ANG AV WAGG	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           51           44           44           43           57           43           43           57           82           45           75           63           61           48           49           63	- - - CO1 CO1 CO2 - - CO1 CO2 CO1 CO1 CO1 CO1 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	CO1         CO1           CO1         CO2, RO, (AO, AltA)*           CO1, CO2, (RO, AO)*         CO1, CO2, (RO, AO)*           CO1, CO2, (RO, AO)*         CO1
15585       1F0X ST, WAGGA WAGGA NSW 2560       58       53       52       42       44       -       -       CO1       CO1, CO2, (RO,AO)*         21584       19 BROOKONG AV, WAGGA WAGGA NSW 2560       58       53       52       42       44       -       -       CO1         21584       117 BROOKONG AV, WAGGA WAGGA NSW 2560       58       53       52       42       45       -       -       CO1         21584       117 BROOKONG AV, WAGGA WAGGA NSW 2560       58       53       52       42       43       -       -       CO1       CO1       CO1         21584       118 BROOKONG AV, WAGGA WAGGA NSW 2560       58       53       52       42       43       -       -       CO1	215356 3 215385 4 215385 4 215481 2 215491 2 215491 4 215491 4 215491 4 215491 4 215491 4 215597 4 215567 1 215676 3 215676 3 215676 3 215676 3 215784 1 21572 6 215771 7 8 215774 6 215774 1 215774 1 215774 1 215779 1	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>RIDARE ST, TURVEY PARK NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>STATION PL, WAGGA WAGGA NSW 2650</li> <li>STATION PL, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DOROCHOK AV, WAGGA WAGGA NSW 2650</li> <li>DOROCHOK AV, WAGGA WAGGA NSW 2650</li> <li>DOROCHOK AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY ST, WAGGA WAGGA NSW 2650</li> <li>DONNELLY ST, WAGGA WAGGA NSW 2650</li> <li>DONNELY ST, WAGGA WAGGA NSW 2650</li> </ul>	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           51           44           44           43           43           43           43           57           43           43           57           63           61           48           49           63           83	- - - - - - - - - - - - - -	- 	C01
21543       17 BROCKONG AV, WAGGA WAGGA NSW 2850       58       53       52       42       45       -       -       CO1       CO1         215484       11TUE BEST ST, WAGGA WAGGA NSW 2850       58       53       52       42       47       -       -       CO1       CO1 <td>215356 3 215365 4 215365 4 215365 4 215402 2 215402 4 215491 4 215491 4 215491 4 215491 4 215571 5 215571 3 215651 3 215651 3 215654 3 215654 3 215654 3 215654 3 215764 1 215774 6 215774 6 215774 6 215774 6 215774 6 215774 6 215774 6 215774 6 215774 7 215750 1 215774 7 215760 1 215774 7 215760 1 215774 7 215760 1 215779 1 215760 1 215760 1 215760 1 215779 1 215760 1 215770 1 215760 1 215770 1 215</td> <td><ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>RODOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>STATION PL, WAGGA WAGGA NSW 2650</li> <li>STATION PL, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DRONCONG AV, WAGGA WAGGA NSW 2650</li> <li>DRONCONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> </ul></td> <td>58           58</td> <td>53           53</td> <td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td> <td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td> <td>48           47           51           44           43           57           43           43           57           63           61           48           49           63           63           63           63           63           63           63           63           63           63           63           63           63           63           63           63           64           63           64           63           63           63           63           64           63           64           63           64           63           64           63           64           63           64</td> <td>- - - - - - - - - - - - - -</td> <td>- </td> <td>C01           C01           C01, C02, RO, (AO, AltA)*           C01, C02, RO, AO, AltA)*           C01, C02, (RO,AO)*           C01           C01  </td>	215356 3 215365 4 215365 4 215365 4 215402 2 215402 4 215491 4 215491 4 215491 4 215491 4 215571 5 215571 3 215651 3 215651 3 215654 3 215654 3 215654 3 215654 3 215764 1 215774 6 215774 6 215774 6 215774 6 215774 6 215774 6 215774 6 215774 6 215774 7 215750 1 215774 7 215760 1 215774 7 215760 1 215774 7 215760 1 215779 1 215760 1 215760 1 215760 1 215779 1 215760 1 215770 1 215760 1 215770 1 215	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>RODOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>STATION PL, WAGGA WAGGA NSW 2650</li> <li>STATION PL, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DRONCONG AV, WAGGA WAGGA NSW 2650</li> <li>DRONCONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> </ul>	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           51           44           43           57           43           43           57           63           61           48           49           63           63           63           63           63           63           63           63           63           63           63           63           63           63           63           63           64           63           64           63           63           63           63           64           63           64           63           64           63           64           63           64           63           64	- - - - - - - - - - - - - -	- 	C01           C01, C02, RO, (AO, AltA)*           C01, C02, RO, AO, AltA)*           C01, C02, (RO,AO)*           C01
21549       18 BROCKONG AV, WAGGA WAGGA NSW 2550       58       53       52       42       47       -       CO1         21584       18 BROKONG AV, WAGGA MSGA NSW 2550       58       53       52       42       43       -       CO1       CO1         21588       15 BROCKONG AV, WAGGA MAGGA NSW 2550       58       53       52       42       43       -       CO1       CO1, CO2, (RO)*       CO1, CO2, (RO, AIA)*         215988       11TLE BEST ST, WAGGA WAGGA NSW 2550       58       53       52       42       64       CO1       CO1, CO2, (RO, AIA)*       CO1, CO2, (RO, AIA)*         215924       11T BEDOTST, WAGGA WAGGA NSW 2550       58       53       52       42       64       CO1       CO1, CO2, (RO, CO2, (RO, AIA)*         215924       11T BEDOTST, WAGGA WAGGA NSW 2550       58       53       52       42       82       CO1, CO2, (RO, WAGGA WAGGA NSW 250       58       53       52       42       46       -       -       CO1       CO1, CO2, (RO, AIA)*       CO1, CO2, (RO, AIA)*       CO1       CO1       CO1       CO1, CO2, (RO, AIA)*       CO1       C	215356 3 215365 4 215365 4 215462 2 215462 2 215472 2 215490 4 215491 4 215491 4 215591 3 215651 3 215651 3 215651 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215766 4 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215779 1 215789 1 215	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>SILDARE ST, TURVEY PARK NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>TLITLE BEST, WAGGA WAGGA NSW 2650</li> <li>LITLTE BEST, WAGGA WAGGA NSW 2650</li> <li>STROKONG AV, WAGGA WAGGA NSW 2650</li> <li>STROKONG AV, WAGGA WAGGA NSW 2650</li> <li>TONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY ST, WAGGA WAGGA NSW 2650</li> <li>TEINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TEINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>TOROKONG AV, WAGGA WAGGA NSW 2650</li> </ul>	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           51           44           43           57           43           43           57           63           61           48           49           63           49           63           44           63           44	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	C01
215888       15 BROCKONG AV, WAGGA NSW 2650       58       53       52       42       43       -       -       CO1       CO1, CO2, (R0, CO, A), A), A)         215989       15 TUTE BEST ST, WAGGA MAGA NSW 2650       58       53       52       42       86       CO1, CO2, (R0, CO2, (R0, A), A)       CO1, CO2, (R0, A), A), A)         215924       11 BROOKONG AV, WAGGA MAGA NSW 2650       58       53       52       42       43       -       -       CO1         215925       140 EDWARD ST, WAGGA MAGA NSW 2650       58       53       52       42       43       -       -       CO1       CO1, CO2, (R0, A), A), A)         215925       140 EDWARD ST, WAGGA MAGA NSW 2650       58       53       52       42       46       -       -       CO1       CO1, CO2, (R0, A), A), A)         215945       19 BROOKONG AV, WAGGA MAGA NSW 2650       58       53       52       42       46       -       -       CO1       CO1, CO2, (R0, A), A)       A)       A)         215946       17 BROOKONG AV, WAGGA MAGGA NSW 2650       58       53       52       42       46       -       -       CO1       CO1, CO2, (R0, A), A)       A)       A)       A)       A)       A)       A)       A)	215356 3 215385 4 215385 4 215385 4 215412 2 215440 4 215491 2 215491 4 215491 4 215591 3 215651 3 215651 3 215651 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215787 4 215777 4 215777 4 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215776 1 215770 2 215790 1 215770 1 215770 1 215770 1 215770 1 215770 1 215770 1 215770 1 215770 1 215770 1 215780 2 215790 1 215780 2 215790 1 215780 2 215790 1 215780 2 215790 1 215780 2 215780 2 215803 2 215	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>SILDARE ST, TURVEY PARK NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>EINDERS ST, WAGGA WAGGA NSW 2650</li> <li>FLINDERS ST, WAGGA WAGGA NSW 2650</li> <li>FLINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TINTE BEST ST, WAGGA WAGGA NSW 2650</li> <li>TINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TEINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TEINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TINDOKONG AV, WAGGA WAGGA NSW 2650</li> <li>TEINDERS ST, WAGGA WAGGA NSW 2650</li> <li>TEINDERS AV, WAGGA NSW 2650</li> </ul>	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	$\begin{array}{c} 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\$	48           47           51           44           43           57           43           43           57           82           45           75           64           63           61           48           49           63           49           63           44           45	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	C01           C01      C01      C01
215908       3 FOX ST, WAGGA WAGGA NSW 2850       58       53       52       42       64       C01       CO1       CO1       CO1, CO2, (R0,A0)*         215924       118 EOOKONG AV, WAGGA MAGGA NSW 2850       55       55       -       -       66       CO1       -       -       CO1         215924       118 EOOKONG AV, WAGGA MAGGA NSW 2850       58       53       52       42       48       -       -       CO1       CO1, CO2, (R0,A0)*         215924       19 BROOKONG AV, WAGGA MAGGA NSW 2850       58       53       52       42       46       -       -       CO1       CO1, CO2, (R0,A0)*         215926       188 EDWARD ST, WAGGA MAGGA NSW 2850       58       53       52       42       46       -       -       CO1       CO1, CO2, (R0,A0)*         215926       18 EDWARD ST, WAGGA MAGGA NSW 2850       58       53       52       42       46       -       -       CO1       CO1       CO1, CO2, (R0,A0)*       CO1       CO1 <td< td=""><td>215356 3 215365 4 215365 4 215365 4 215412 2 215440 4 215491 2 215491 4 215591 1 215591 3 215651 3 215651 3 215656 3 215656 3 215670 3 215676 3 215670 3 215676 3 215670 3 215774 9 215774 9 215774 9 215774 9 215774 9 215774 9 215774 9 215779 2 215779 2 215779 2 215779 2 215799 2 215899 1 215583 6 1 215583 7 215583 7 215584 7</td><td><ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>RODOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DRONCH AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BONOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> </ul></td><td>58           58</td><td>53           53</td><td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td><td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td><td>48           47           51           44           44           43           57           43           43           57           82           45           75           64           63           61           48           49           63           44           48           49           63           44           48           44           46           83           44           43           44           44           43           44           45           83           44           43           44           45           83           44           47</td><td>- - - - - - - - - - - - - -</td><td>- - - - - - - - - - - - - -</td><td>CO1           CO1           CO1      CO1      CO1</td></td<>	215356 3 215365 4 215365 4 215365 4 215412 2 215440 4 215491 2 215491 4 215591 1 215591 3 215651 3 215651 3 215656 3 215656 3 215670 3 215676 3 215670 3 215676 3 215670 3 215774 9 215774 9 215774 9 215774 9 215774 9 215774 9 215774 9 215779 2 215779 2 215779 2 215779 2 215799 2 215899 1 215583 6 1 215583 7 215583 7 215584 7	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>RODOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DRONCH AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKELY AV, WAGGA WAGGA NSW 2650</li> <li>BONOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BONOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> </ul>	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           51           44           44           43           57           43           43           57           82           45           75           64           63           61           48           49           63           44           48           49           63           44           48           44           46           83           44           43           44           44           43           44           45           83           44           43           44           45           83           44           47	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1      CO1      CO1
215925       140 EDWARD ST, WAGGA MAGA NAWZ 2850       55       -       -       66       CO1       -       -       -       -       66       CO1       -       -       -       CO1       CO1, CO2, (RO)*       CO1, CO2, (RO)*       CO1, CO2, (RO), AD, AIA)*         215938       111TLE BEST ST, WAGGA WAGGA NSW 2850       58       53       52       42       82       CO1, CO2, (RO)*       CO1, CO2, (RO, AIA)*         215956       188 EDWARD ST, WAGGA WAGGA NSW 2850       58       53       52       42       50       -       -       CO1         215966       7 BKOOKONG AV, WAGGA MAGGA NSW 2850       58       53       52       42       46       -       -       CO1       CO1, CO2, (RO, AO)*         216024       12 BROOKONG AV, WAGGA MAGGA NSW 2850       58       53       52       42       44       -       -       CO1         216026       188 EDWARD ST, WAGGA MAGGA NSW 2850       58       53       52       42       44       -       -       CO1         216026       188 EDWARD ST, WAGGA MAGGA NSW 2850       58       53       52       42       43       -       -       CO1         216050       158       53       52       42	215356 3 215365 4 215365 4 215365 4 215412 2 215440 4 215491 2 215491 4 215491 4 215591 3 215651 3 215651 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215656 3 215774 6 215774 7 215774 1 215774 1 215780 2 215794 1 215780 2 215794 1 215780 2 215794 1 215780 2 215794 1 215780 2 215794 1 215780 2 215794 1 215780 2 215780 2 215784 1 215784 1 215784 1 215784 1 215883 1 215884 1 215884 4 215884 4 215	I NORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 INORMAN ST, TURVEY PARK NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA WAGGA NSW 2650 IS BROCKONG AV, WAGGA MAGGA NSW 2650 ID BROCKONG AV, WAGGA MAGGA NSW 2650 ID BROCKONG AV, WAGGA MAGGA NSW 2650 ID ORNELLY AV, WAGGA WAGGA NSW 2650 ID ONNELLY AV, WAGGA WAGGA NSW 2650 ILITTLE BEST ST, WAGGA WAGGA NSW 2650 FLINDERS ST, WAGGA WAGGA NSW 2650 FLINDERS ST, WAGGA WAGGA NSW 2650 ILITTLE BEST ST, WAGGA WAGGA NSW 2650 I DONNELLY AV, WAGGA WAGGA NSW 2650 I INTELEST ST, WAGGA WAGGA NSW 2650 I BOROKONG AV, WAGGA MAGGA NSW 2650 I BOROKONG AV, WAGGA MA	58           58	$\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           51           44           44           43           57           43           43           43           57           63           61           48           49           63           44           43           45           75           64           63           49           63           44           43           44           43           44           43	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	C01           C01      C01      C01
215942       9 BROOKONG AV, WAGGA WAGGA NSW 2650       58       53       52       42       46       -       -       CO1         215965       185 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       63       CO1       CO1       CO1       CO1, CO2, (RO,AO)*         215964       18 FOOKONG AV, WAGGA MAGGA NSW 2650       58       53       52       42       63       CO1       CO1       CO1, CO2, (RO,AO)*         216067       18 FOOKONG AV, WAGGA MAGGA NSW 2650       58       53       52       42       46       -       -       CO1         216026       18 BEDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       44       -       -       CO1         216026       186 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216036       156 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216050       158 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216051       158 EDWARD ST, WAGGA MAGGA NSW 2650       58 <td>215356 3 215386 4 215486 4 215481 2 215481 2 215491 2 215491 4 215491 4 215491 4 215491 4 215591 1 215591 3 215656 3 215656 3 215656 3 215670 3 215670 3 215670 3 215670 3 215670 3 215670 3 215670 3 215670 3 215670 3 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215774 1 215779 2 215809 1 215799 2 215809 1 215809 1 215800 1 215800 1 215800 1 215800 1 215800 1 215800 1 215800 1 215</td> <td><ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA NAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650<!--</td--><td>58           58</td><td><math display="block">\begin{array}{c} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\</math></td><td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td><td><math display="block">\begin{array}{c} 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\ 42\\</math></td><td>48           47           51           44           44           43           57           43           43           57           63           49           63           49           63           44           46           83           44           46           83           44           46           83           44           46           83           44           44           46           83           44           45           83           44           45           83           44           45           83           44           45           83           44           45           86           64</td><td>- - 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215984       5 FOX ST, WAGGA WAGGA NSW 2650       58       53       52       42       63       CO1       CO1       CO1, CO2, (RO,AO)*         216006       15 ROOKOG AV, WAGGA MSGA NSW 2650       58       53       52       42       46       -       -       CO1         216027       12 BROOKOG AV, WAGGA MSGA NSW 2650       58       53       52       42       46       -       -       CO1         216026       188 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       44       -       CO1         216026       188 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       CO1       CO1, CO2, RO, (AO, AIA)*         216036       156 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216036       156 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216036       156 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216039       168 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52	215356 3 215385 4 215385 4 215385 4 2154812 2 215440 4 215491 2 215491 4 215491 4 215491 4 215491 4 215591 3 215651 3 215670 3 215664 3 215686 6 215670 3 215674 5 215774 5 215780 5 215784 5 215885 1 215884 5 215885 1 215884 5 215885 1 215886 5 215885 1 215885 1 2158885 1 215885 1 2	I NORMAN ST, TURVEY PARK NSW 2650 I BROCKONG AV, WAGGA WAGGA NSW 2650 I BROCKONG AV, WAGGA WAGGA NSW 2650 I BROCKONG AV, WAGGA WAGGA NSW 2650 I BROCKONG AV, WAGGA MAGGA NSW 2650 I BROCKONG AV, WAGGA WAGGA NSW 2650 I BROCKONG AV, WAGGA WAGGA NSW 2650 I BROCKONG AV, WAGGA WAGGA NSW 2650 I DONNELLY AV, WAGGA WAGGA NSW 2650 I DONNELY AV, WAGGA WAGGA NSW 2650 I BOOKONG AV, WAGGA NSW	58           58	$\begin{array}{c} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           61           44           43           57           43           43           57           43           43           57           64           63           64           63           49           63           44           46           83           44           46           83           44           45           53           63           44           46           83           44           45           54           43           66           64	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1      I      I
218024       12 BRODKONG AV, WAGGA NSW 2650       58       53       52       42       46       -       -       CO1         218026       18 BOWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       44       -       -       CO1         218053       8 SALMON ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         218050       158       EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1         216073       31'2 SALMON ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1       CO1, CO2, RO, (AO, AIA)*         216085       158 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1       CO1, CO2, (RO, AO)*         216085       158 EDWARD ST, WAGGA MAGGA NSW 2650       58       53       52       42       43       -       -       CO1       CO	215356 3 215365 4 215365 4 215365 4 215402 2 215440 4 215491 2 215491 4 215491 4 215491 4 215491 4 215591 1 215571 3 215664 3 215664 3 215664 3 215664 3 215702 4 215774 1 215774 1 215780 1 21580 2 21580 2 21580 2 21580 2 21580 1 21580 2 21580 2 2158	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNE AV, WAGGA NAGGA NSW 2650<td>58           58</td><td><math display="block">\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\</math></td><td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td><td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td><td>48           47           61           44           43           57           43           43           57           43           43           57           64           63           61           63           49           63           49           63           44           45           63           44           63           49           63           49           63           49           63           44           63           44           63           44           63           44           63           44           63           64           63           64           63           64           63           64           65           66           82           46  </td><td>- - - - - - - - - - - - - -</td><td>- - - - - - - - - - - - - -</td><td>CO1           CO1           CO1      I      I</td></li></ul>	58           58	$\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           61           44           43           57           43           43           57           43           43           57           64           63           61           63           49           63           49           63           44           45           63           44           63           49           63           49           63           49           63           44           63           44           63           44           63           44           63           44           63           64           63           64           63           64           63           64           65           66           82           46	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1      I      I
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216073         21/2 SALMON ST, WAGGA MAGGA NSW 2650         58         53         52         42         43         -         -         CO1           216085         158         50         42         43         -         -         CO1         CO1         CO1, CO2, (RO,AO)*           216085         158         50         42         67         CO1         CO1         CO1, CO2, (RO,AO)*           216084         160 E0WARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         66         CO1         CO1         CO1, CO2, (RO,AO)*           216094         162 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1         CO1, CO2, (RO,AO)*           216094         162 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1         CO1         CO1           21607         168 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1         CO1         CO1           216107         168 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1 <td< td=""><td>215366 3 215366 3 215365 4 215365 4 215402 2 215402 4 215491 4 215491 4 215491 4 215491 4 215491 4 215591 7 215591 7 215570 3 215564 3 215564 3 215564 5 215704 6 215774 6 215774 5 215774 5 2157745 5 2157745 5 2157745 5 2157745 5 2157745 5 215774 5 215774</td><td><ul> <li>NORMAN ST. TURVEY PARK NSW 2650</li> <li>BROCKONG AV. MAGGA WAGGA NSW 2650</li> <li>BROCKONG AV. MAGGA WAGGA NSW 2650</li> <li>BROCKONG AV. MAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA</li></ul></td><td>58           58</td><td><math display="block">\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\</math></td><td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td><td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td><td>48           47           41           41           43           43           43           43           43           43           43           43           57           44           43           57           64           63           64           63           49           46           83           44           45           83           47           64           63           44           45           83           47           63           64           63           64           63           64           63           64           65           66           82           64           65           66           82           66           66           66           66</td><td>- - - - - - - - - - - - - -</td><td>- - - - - - - - - - - - - -</td><td>CO1           CO1           CO1      I      I</td></td<>	215366 3 215366 3 215365 4 215365 4 215402 2 215402 4 215491 4 215491 4 215491 4 215491 4 215491 4 215591 7 215591 7 215570 3 215564 3 215564 3 215564 5 215704 6 215774 6 215774 5 215774 5 2157745 5 2157745 5 2157745 5 2157745 5 2157745 5 215774 5 215774	<ul> <li>NORMAN ST. TURVEY PARK NSW 2650</li> <li>BROCKONG AV. MAGGA WAGGA NSW 2650</li> <li>BROCKONG AV. MAGGA WAGGA NSW 2650</li> <li>BROCKONG AV. MAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROCKONG AV, WAGGA MAGGA</li></ul>	58           58	$\begin{array}{r} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           41           41           43           43           43           43           43           43           43           43           57           44           43           57           64           63           64           63           49           46           83           44           45           83           47           64           63           44           45           83           47           63           64           63           64           63           64           63           64           65           66           82           64           65           66           82           66           66           66           66	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1      I      I
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21609         162 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1         CO1           216103         164 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1         CO1         CO1           216103         164 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         54         CO1         CO1         CO1           216107         168 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         51         -         -         CO1           216117         166 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         53         -         CO1         CO1           216117         166 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         45         -         -         CO1         CO1           216127         168 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         46         -         -         CO1           216128         170 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         46         -	215366 3 215366 3 215366 4 215402 4 215402 4 215402 4 215491 4 215491 4 215491 4 215491 4 215591 5 215591 5 215570 3 215585 4 215776 2 215776 2 215776 7 215776 7 215774 7 215776 7 215774 7 215776 7 215774 7 215776 7 215774 7 215776 7 215774 7 215776 7 215774 7 215787 8 215784 7 215784 7 215897 7 215897 8 215894 7 215896 7 215897 7 21597 7 21597 7 21597 7 21597 7 215977 7 215977	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NSW 2650&lt;</li></ul>	58           58	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           41           44           43           43           57           43           43           57           43           43           57           64           63           61           48           49           63           44           45           63           44           45           63           44           45           83           44           43           43           63           44           45           83           44           43           63           64           63           64           63           64           65           66           62           63           64           65           66           62           63	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1      I      I
216107         168 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         51         -         -         CO1           216115         2A SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         45         -         CO1         CO1           216117         166 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         45         -         CO1         CO1           216112         2 SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         45         -         CO1         CO1           216122         2 SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         46         -         CO1           216127         2 BROOKONG AV, WAGGA WAGGA NSW 2650         58         53         52         42         46         -         CO1           216128         170 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         51         -         CO1           216128         170 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         51         -         CO1           216158         8 ALMON ST, WAGGA WAGGA NSW 2650 </td <td>215356         3           215356         4           215366         4           215366         4           215412         2           215461         4           215491         2           215491         2           215491         4           215491         4           215591         3           215581         3           215571         8           215776         2           215776         2           215776         2           215776         2           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         2           215774         2           215780         1           215781         2           215782         2           215833         1           215843         1     <td><ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NSW</li></ul></td><td>58           58</td><td>53           53</td><td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td><td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td><td>48           47           61           44           43           57           43           43           57           43           43           57           64           63           61           48           49           63           44           45           63           44           45           63           44           45           63           46           83           44           45           83           44           63           45           83           44           63           64           63           64           63           64           65           62           62           63           64           65           66           67           43</td><td>- - - - - - - - - - - - - -</td><td>- - - - - - - - - - - - - -</td><td>CO1           CO1           CO1      CO1      CO1</td></td>	215356         3           215356         4           215366         4           215366         4           215412         2           215461         4           215491         2           215491         2           215491         4           215491         4           215591         3           215581         3           215571         8           215776         2           215776         2           215776         2           215776         2           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         1           215774         2           215774         2           215780         1           215781         2           215782         2           215833         1           215843         1 <td><ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NSW</li></ul></td> <td>58           58</td> <td>53           53</td> <td>52 52 52 52 52 52 52 52 52 52 52 52 52 5</td> <td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td> <td>48           47           61           44           43           57           43           43           57           43           43           57           64           63           61           48           49           63           44           45           63           44           45           63           44           45           63           46           83           44           45           83           44           63           45           83           44           63           64           63           64           63           64           65           62           62           63           64           65           66           67           43</td> <td>- - - - - - - - - - - - - -</td> <td>- - - - - - - - - - - - - -</td> <td>CO1           CO1           CO1      CO1      CO1</td>	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NSW</li></ul>	58           58	53           53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           61           44           43           57           43           43           57           43           43           57           64           63           61           48           49           63           44           45           63           44           45           63           44           45           63           46           83           44           45           83           44           63           45           83           44           63           64           63           64           63           64           65           62           62           63           64           65           66           67           43	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1      CO1      CO1
216117         166 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         53         -         CO1         CO1           216122         2 SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         45         -         -         CO1           216127         18 BROOKONG AV, WAGGA WAGGA NSW 2650         58         53         52         42         46         -         -         CO1           216128         170 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         46         -         -         CO1           216128         170 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         46         -         -         CO1           216128         170 EDWARD ST, WAGGA MAGGA NSW 2650         58         53         52         42         51         -         -         CO1           216158         8 SALMON ST, WAGGA MAGGA NSW 2650         58         53         52         42         45         -         -         CO1           216181         2 PETER ST, WAGGA MAGGA NSW 2650         58         53         52         42         60         CO1         CO1         CO1, CO2, (RO,AO)*	215356         3           215356         4           215366         4           215366         4           215412         2           215461         4           215491         2           215491         2           215591         3           215591         3           2155951         3           2155970         3           215591         3           215591         3           215776         2           215776         2           215776         2           215776         2           215774         2           215774         2           215774         2           215774         2           215774         2           215774         2           215774         2           215774         2           215774         2           215774         2           215779         2           215780         1           215807         2           215808         1           215804         1 </td <td><ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NSW</li></ul></td> <td>58           58</td> <td>53           53</td> <td>52           52</td> <td>42 42 42 42 42 42 42 42 42 42 42 42 42 4</td> <td>48           47           47           61           43           43           57           43           43           57           43           43           57           64           63           61           48           49           63           64           63           46           43           44           45           63           46           47           48           43           46           43           63           44           45           83           47           54           43           66           62           62           63           64           63           64           65           62           63           64           65           66</td> <td>- - - - - - - - - - - - - -</td> <td></td> <td>CO1           CO1           CO1      I      CO1</td>	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA NSW</li></ul>	58           58	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           47           61           43           43           57           43           43           57           43           43           57           64           63           61           48           49           63           64           63           46           43           44           45           63           46           47           48           43           46           43           63           44           45           83           47           54           43           66           62           62           63           64           63           64           65           62           63           64           65           66	- - - - - - - - - - - - - -		CO1           CO1      I      CO1
216127         8 BROOKONG AV, WAGGA WAGGA NSW 2650         58         53         52         42         46         -         -         CO1           216128         170 EDWARD ST, WAGGA WAGGA NSW 2650         58         53         52         42         51         -         CO1           216126         8 SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         51         -         CO1           216165         8 SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         45         -         CO1           216161         2 PETER ST, WAGGA WAGGA NSW 2650         58         53         52         42         60         CO1         CO1, CO2, (RO,AO)*	215366 3 215366 4 215461 2 215461 2 215461 2 215471 2 215471 2 215471 2 215491 4 215491 4 215581 1 215571 3 215581 4 215571 5 215776 2 215776 2 215776 4 215776 4 215778 4 215778 4 215784 4 215784 4 215784 4 215784 4 215784 4 215884 1 215884 1 215	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>UTTLE BEST ST, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNCONG AV, WAGGA NSW 2650</li></ul>	58           58	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           61           44           43           57           43           43           57           43           43           43           57           82           45           63           61           48           49           46           63           44           45           83           44           45           83           47           54           63           64           63           64           63           64           65           62           63           64           63           64           63           64           63           64           63           64           43           66           67           67           67	- - - - - - - - - - - - - -		CO1           CO1      I      CO1
216165         8 SALMON ST, WAGGA WAGGA NSW 2650         58         53         52         42         45         -         -         CO1           216181         2 PETER ST, WAGGA WAGGA NSW 2650         58         53         52         42         60         CO1         CO1, CO2, (RO,AO)*	215366 3 215366 4 215461 2 215461 2 215461 2 215471 2 215491 4 215491 4 215491 4 215491 4 215591 1 215591 1 215571 3 215684 3 215684 3 215684 3 215770 6 215770 6 215770 6 215770 6 215774 4 215774 7 215784 7 215774 7 215787 7 215897 7 215979 7 215897 7 21597 7 21597 7 21597 7 215977 7 215977 7 215977 7 215977 7 215977	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>UITTLE BEST ST, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNONG AV, WAGGA NSW 2650</li> <li>DONONG AV, WAGGA NSW 2650</li> <li>DROOKONG AV, WAGGA NSW 2650</li> <li>DROOKONG AV, WAGGA NSW 2650</li> <li>DROOKONG AV, WAGGA NSW 26</li></ul>	58           58	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           47           51           44           43           43           43           43           43           43           43           43           44           43           57           82           45           64           63           61           48           49           46           63           44           45           63           64           63           64           45           83           44           45           83           44           45           83           64           43           66           82           46           50           63           64           43           67           43           66           67	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1, CO2, RO, (AO, AlIA)*           CO1, CO2, RO, (AO, AlIA)*           CO1, CO2, RO, (AO, AlIA)*           CO1           CO1
	215366 3 215366 4 215461 2 215461 2 215461 2 215471 2 215491 4 215491 4 215491 4 215491 4 215591 1 215591 1 215571 3 215684 3 215585 4 215770 6 215770 6 215770 6 215770 6 215770 6 215770 6 215774 4 215774 7 215784 7 215888 1 215784 7 215888 1 215888 1 215888 1 215888 1 215884 7 215884 7 215	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, MAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNE AV, WAGGA WAGGA NSW 2650</li> <li>DONNE AV, WAGGA WAGGA NSW 2650</li> <li>DENOKONG AV, WAGGA NSW 2650</li>     &lt;</ul>	58           58	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           47           51           44           43           43           57           43           43           43           43           57           82           45           63           61           48           49           46           63           44           45           63           44           45           63           44           45           63           44           45           83           44           45           83           44           45           83           44           63           64           43           66           82           46           50           63           64           43           67           43	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1           CO1, CO2, RO, (AO, AlIA)*           CO1           CO1
	215336 3 215386 3 215386 4 215481 2 215481 2 215491 2 215491 2 215491 4 215491 4 215491 4 215591 1 215591 1 215591 6 215797 3 215584 3 215584 3 215584 3 215786 6 215770 6 215771 6 215774 4 215774 7 215784 7 215888 1 215888 1 215884 7 215884 7 215895 7 215995 7 21595	<ul> <li>NORMAN ST, TURVEY PARK NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA WAGGA NSW 2650</li> <li>BROOKONG AV, WAGGA MAGGA NSW 2650</li> <li>DONNELLY AV, WAGGA WAGGA NSW 2650</li> <li>DONNELY AV, WAGGA WAGGA NSW 2650</li> <li>DONNE AV, WAGGA WAGGA NSW 2650</li> <li>DONNE AV, WAGGA WAGGA NSW 2650</li> <li>DENOKONG AV, WAGGA NSW 2650</li></ul>	58           58	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48           47           47           51           44           43           43           57           43           43           43           43           43           57           82           45           63           61           48           49           46           63           44           43           44           45           64           63           64           43           44           45           83           44           45           83           46           64           45           66           82           46           63           64           43           66           67           67           67           67           67           64	- - - - - - - - - - - - - -	- - - - - - - - - - - - - -	CO1

W.008 U	tility Work (66kV) (night outage 1)							Additional Mitigation	Additional Mitigation
SLR ID	ADDRESS	NML Daytime	NML Daytime OOH	NML Evening	NML Night-time	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Evening *(>2 consecutive rest periods)	Night *(>2 consecutive sleep periods)
216200 216226 216245	21 MURRAY ST, WAGGA WAGGA NSW 2650 4 PETER ST, WAGGA WAGGA NSW 2650 131A EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 60 63	- CO1 CO1	- CO1 CO1	CO1 CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
216256 216264	196 EDWARD ST, WAGGA WAGGA NSW 2650 22 MURRAY ST, WAGGA WAGGA NSW 2650 108 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 43	-	-	CO1 CO1
216272 216281 216284	198 EDWARD ST, WAGGA WAGGA NSW 2650 133 EDWARD ST, WAGGA WAGGA NSW 2650 6 PETER ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 63 54	- CO1 CO1	- CO1 CO1	CO1 CO1, CO2, (RO,AO)* CO1
216292 216294	202 EDWARD ST, WAGGA WAGGA NSW 2650 206 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 43		-	CO1 CO1
216298 216306 216315	153 EDWARD ST, WAGGA WAGGA NSW 2650 23 MURRAY ST, WAGGA WAGGA NSW 2650 8 PETER ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	64 43 52	CO1 - -	CO1 - -	CO1, CO2, (RO,AO)* CO1 CO1
216323 216327	157 EDWARD ST, WAGGA WAGGA NSW 2650 208 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	59 43	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
216333 216342	161 EDWARD ST, WAGGA WAGGA NSW 2650 214 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	58 44	- -	-	CO1, CO2, (RO,AO)* CO1
216346 216357 216360	131A EDWARD ST, WAGGA WAGGA NSW 2650 212 EDWARD ST, WAGGA WAGGA NSW 2650 163 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	60 44 54	CO1 - CO1	CO1 - CO1	CO1, CO2, (RO,AO)* CO1 CO1
216378 216391	10 PETER ST, WAGGA WAGGA NSW 2650 1/173 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 52	-		CO1 CO1
216400 216401 216404	222 EDWARD ST, WAGGA WAGGA NSW 2650 WOMBOY 5/165 EDWARD ST, WAGGA WAGGA NS 8 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 58 63	- CO1 CO1	- CO1 CO1	CO1 CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
216433 216434	9 BEST ST, WAGGA WAGGA NSW 2050 9 BEST ST, WAGGA WAGGA NSW 2650 177 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	60 49	CO1	C01 -	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)* CO1
216437 216448	12 PETER ST, WAGGA WAGGA NSW 2650 175 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 50	-	-	CO1 CO1
216464 216471 216472	179 EDWARD ST, WAGGA WAGGA NSW 2650 181 EDWARD ST, WAGGA WAGGA NSW 2650 173 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 46 49	-	-	C01 C01 C01
216480 216485	189 EDWARD ST, WAGGA WAGGA NSW 2650 12 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	48 53	-	- CO1	CO1 CO1
216486 216487	191 EDWARD ST, WAGGA WAGGA NSW 2650 11A BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 59	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
216498 216520 216521	14 PETER ST, WAGGA WAGGA NSW 2650 7 FOX ST, WAGGA WAGGA NSW 2650 2/4-6 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	51 51 49	-	•	CO1 CO1 CO1
216540 216547	14 BEST ST, WAGGA WAGGA NSW 2650 13 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	54 60	CO1 CO1	CO1 CO1	CO1 CO1, CO2, (RO,AO)*
216558 216561 216564	9 FOX ST, WAGGA WAGGA NSW 2650 20 PETER ST, WAGGA WAGGA NSW 2650 10 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52	42 42 42	48 53 48	-	- CO1	C01 C01 C01
216585 216587	16 BEST ST, WAGGA WAGGA NSW 2650 4/11 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53 53	52 52 52	42 42 42	48 55 48	- CO1 -	- CO1 -	CO1 CO1
216589 216603	8 THORNE ST, WAGGA WAGGA NSW 2650 17 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 58	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
216605 216624 216626	2/11 FOX ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650 22 PETER ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 49 48	-	-	C01 C01 C01
216642 216643	12 FOX ST, WAGGA WAGGA NSW 2000 18 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	48 48 57	- - CO1	- - CO1	C01 C01
216649 216651	4/11 FOX ST, WAGGA WAGGA NSW 2650 10 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 46	-	-	CO1 CO1
216655 216657 216662	215-217 EDWARD ST, WAGGA WAGGA NSW 2650 1/11 FOX ST, WAGGA WAGGA NSW 2650 215A EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 44 44	-	-	CO1 CO1 CO1
216668 216676	19 BEST ST, WAGGA WAGGA NSW 2650 11 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52	42 42 42	44 49 43	-	•	CO1 CO1
216678 216680	24 PETER ST, WAGGA WAGGA NSW 2650 219 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 43	-	•	CO1 CO1
216683 216694 216697	14 FOX ST, WAGGA WAGGA NSW 2650 12 THORNE ST, WAGGA WAGGA NSW 2650 221 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 45 43	-	• •	C01 C01 C01
216700 216700 216710	20 BEST ST, WAGGA WAGGA NSW 2000 20 BEST ST, WAGGA WAGGA NSW 2650 225 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 56 43	- CO1 -	- CO1 -	CO1 CO1
216721 216726	13 FOX ST, WAGGA WAGGA NSW 2650 21 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 57	- CO1	- CO1	CO1 CO1
216729 216733 216743	26 PETER ST, WAGGA WAGGA NSW 2650 16 FOX ST, WAGGA WAGGA NSW 2650 14 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	49 47 45	-	-	CO1 CO1 CO1
216774 216775	14 THORNE ST, WAGGA WAGGA NSW 2650 15 FOX ST, WAGGA WAGGA NSW 2650 28 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53 53	52 52 52	42 42 42	45 45 49	-	• •	C01 C01
216781 216795	24 BEST ST, WAGGA WAGGA NSW 2650 15 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 44	-	-	CO1 CO1
216798 216799 216839	23 BEST ST, WAGGA WAGGA NSW 2650 20 FOX ST, WAGGA WAGGA NSW 2650 17 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	55 46 43	CO1 -	CO1 - -	CO1 CO1 CO1
216846 216848	26 BEST ST, WAGGA WAGGA NSW 2650 30 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	55 46	CO1 -	CO1 -	CO1 CO1
216892	26 FOX ST, WAGGA WAGGA NSW 2650 21 FOX ST, WAGGA WAGGA NSW 2650 20 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42	47 46	-	-	C01 C01 C01
216924 216926 216932	20 THORNE ST, WAGGA WAGGA NSW 2650 28 BEST ST, WAGGA WAGGA NSW 2650 19 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 54 46	- CO1 -	- CO1 -	C01 C01 C01
216934 216952	32 PETER ST, WAGGA WAGGA NSW 2650 28 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 46	-	-	CO1 CO1
216966 216985 216991	23 FOX ST, WAGGA WAGGA NSW 2650 30 BEST ST, WAGGA WAGGA NSW 2650 22 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 53 44	-	- CO1	CO1 CO1 CO1
216994 217012	29 BEST ST, WAGGA WAGGA NSW 2650 34 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	53 46	-	- CO1 -	C01 C01
217019 217027	30 FOX ST, WAGGA WAGGA NSW 2650 25 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 46	-	- -	C01 C01
217038 217048 217052	32 BEST ST, WAGGA WAGGA NSW 2650 24 THORNE ST, WAGGA WAGGA NSW 2650 31 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	53 43 53	-	CO1 - CO1	CO1 CO1 CO1
217052 217063 217067	27 FOX ST, WAGGA WAGGA NSW 2650 36 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	46 43	-	-	CO1 CO1
217068 217090	32 FOX ST, WAGGA WAGGA NSW 2650 27 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 43	-	-	CO1 CO1
217101 217114	34 BEST ST, WAGGA WAGGA NSW 2650 26 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 43	- -	-	CO1 CO1
217115 217118 217125	33 BEST ST, WAGGA WAGGA NSW 2650 40 PETER ST, WAGGA WAGGA NSW 2650 25 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	54 43 45	CO1 -	CO1 - -	CO1 CO1 CO1
217129 217154	34 FOX ST, WAGGA WAGGA NSW 2650 36 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 52	-	- -	CO1 CO1
217161 217163	37 PETER ST, WAGGA WAGGA NSW 2650 28 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 43	-	•	CO1 CO1
217174 217181 217184	36 FOX ST, WAGGA WAGGA NSW 2650 35 BEST ST, WAGGA WAGGA NSW 2650 70 MORGAN ST, WAGGA WAGGA NSW 2650	58 58 60	53 53 60	52 52	42 42 45	45 53 46	-	- CO1	CO1 CO1 CO1
217184 217190 217199	26 OATES AV, WAGGA WAGGA NSW 2650 39 PETER ST, WAGGA WAGGA NSW 2650	60 58 58	60 53 53	60 52 52	45 42 42	46 43 45	-	-	C01 C01 C01
217209 217223	40 BEST ST, WAGGA WAGGA NSW 2650 38A FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 44	-	-	CO1 CO1
217225 217244 217256	30 THORNE ST, WAGGA WAGGA NSW 2650 42 PETER ST, WAGGA WAGGA NSW 2650 41 REST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	43 44 46	-	-	CO1 CO1
217256 217261 217271	41 BEST ST, WAGGA WAGGA NSW 2650 38B FOX ST, WAGGA WAGGA NSW 2650 42 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 44 47	-	- -	CO1 CO1 CO1
217279	32 THORNE ST, WAGGA WAGGA NSW 2650 42 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	43 47	-	-	CO1 CO1

#### W.008 Utility Work (66kV) (night outage 1)

								Additional Mitigation	Additional Mitigation
SLR ID ADDRES	s	NML Daytime	NML Daytime OOH	NML Evening	NML Night-time	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Evening *(>2 consecutive rest periods)	Night *(>2 consecutive sleep period
17314 46 PETER ST, WAGGA WAG		58	53	52	42	45	-	-	CO1
7323 34 THORNE ST, WAGGA WA 7341 44 BEST ST, WAGGA WAGG		58	53	52	42	43	-	-	CO1
7341 44 BEST ST, WAGGA WAGG 7357 44 BEST ST, WAGGA WAGG		58 58	53 53	52 52	42 42	50 46	-	-	C01 C01
7362 41 BEST ST, WAGGA WAGG		58	53	52	42	52		-	CO1
7382 42 FOX ST, WAGGA WAGGA		58	53	52	42	43	-	-	C01
7383 102 MORGAN ST, WAGGA W	AGGA NSW 2650	58	53	52	42	44	-	-	CO1
7392 2/39 FOX ST, WAGGA WAGG		58	53	52	42	44	-	-	CO1
7406 46 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	50	-	-	CO1
7424 38 THORNE ST, WAGGA WA		58	53	52	42	43	-	-	C01
7432 43 BEST ST, WAGGA WAGG 7434 44 FOX ST, WAGGA WAGGA	A NSW 2650	58 58	53 53	52 52	42 42	50 43	-	-	CO1 CO1
7445 1/48 BEST ST, WAGGA WAG		58	53	52	42	50	-	-	C01
7460 120 MORGAN ST, WAGGA W	AGGA NSW 2650	58	53	52	42	43	-	-	CO1
7462 45 BEST ST, WAGGA WAGG		58	53	52	42	49	-	-	CO1
7499 50 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	49	-	-	CO1
7600 113 MORGAN ST, WAGGA W	AGGA NSW 2650	58 58	53 53	52 52	42 42	44 45	-	-	CO1 CO1
7620 115 MORGAN ST, WAGGA W 7641 49 BEST ST, WAGGA WAGG		58	53	52	42	45	-	-	C01
7650 158 MORGAN ST, WAGGA WAGG	A NSW 2000 (AGGA NSW 2650	58	53	52	42	40	-	-	C01
7660 54 BEST ST, WAGGA WAGG		58	53	52	42	44	-	-	C01
7680 51 BEST ST, WAGGA WAGG		58	53	52	42	49	-	-	CO1
7743 55 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	49	-	-	CO1
7755 60 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	43	-	-	CO1
7759 56 FOX ST, WAGGA WAGGA	NSW 2650	58	53	52	42	43	-	-	CO1
7777 57 BEST ST, WAGGA WAGG		58	53	52	42	47	-	-	CO1
7792 62 BEST ST, WAGGA WAGG 7797 3/53 FOX ST, WAGGA WAGG		58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
7808 59 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	43		-	CO1
7831 64 BEST ST, WAGGA WAGG		58	53	52	42	47	-	-	C01
7833 61 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	46	-	-	CO1
7859 63 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	46	-	-	CO1
7863 66 BEST ST, WAGGA WAGG		58	53	52	42	49	-	-	CO1
7866 58 THORNE ST, WAGGA WA		58	53	52	42	43	-	-	C01
7882 65 BEST ST, WAGGA WAGG 7899 68 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	46 46	-	-	C01
7899 68 BEST ST, WAGGA WAGG 7915 67 BEST ST, WAGGA WAGG		58 58	53 53	52 52	42 42	46	-	-	CO1 CO1
7942 69 BEST ST, WAGGA WAGG		58	53	52	42	45		-	C01
7966 2/74 BEST ST, WAGGA WAG	GA NSW 2650	58	53	52	42	46	-	-	C01
7971 73 BEST ST, WAGGA WAGG		58	53	52	42	45	-	-	CO1
7992 75 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	45	-	-	CO1
8047 79 BEST ST, WAGGA WAGG		58	53	52	42	44	-	-	CO1
8074 78 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52 52	42	43	-	-	CO1
8081 81 BEST ST, WAGGA WAGG 8105 80 BEST ST, WAGGA WAGG	A NSW 2650	58 58	53 53	52	42 42	44 45	-	-	C01 C01
8105 80 BEST ST, WAGGA WAGG 8138 82 BEST ST, WAGGA WAGG		58	53	52	42	45	-	-	C01
3238 84 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	44	-	-	C01
3341 90 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	43		-	CO1
3375 92 BEST ST, WAGGA WAGG	A NSW 2650	58	53	52	42	43	-	-	CO1
109 BEST ST, WAGGA WAG	GA NSW 2650	58	53	52	42	43	-	-	CO1
8363 244-248 EDWARD ST, WAGO	SA WAGGA NSW 2650	58	53	52	42	43	-	-	CO1
8530 10 SALMON ST, WAGGA WA	GGA NSW 2650	58	53	52	42	45	-	-	C01
8649 24-26 BROOKONG AV, WAG		58	53	52	42	48	-	-	CO1
8869 ERIN EARTH 1 KILDARE ST, 8960 58 BEST ST, WAGGA WAGG		55 58	55 53	52	42	48	CO1	-	- CO1
8976 27 BEST ST, WAGGA WAGG		58	53	52	42	56	CO1	C01	C01
3990 8 PETER ST, WAGGA WAGG		58	53	52	42	57	CO1	CO1	CO1
034 2/56 COLLINS ST, TURVEY F	ARK NSW 2650	58	53	52	42	50	-	-	CO1
32-34 FLINDERS ST, TURVE		58	53	52	42	43	-	-	CO1
0631 140 EDWARD ST, WAGGA W 0632 140 EDWARD ST, WAGGA W	AGGA NSW 2650	55 55	55 55	-	-	76 69	CO1, CO2 CO1	-	-
0632 140 EDWARD ST, WAGGA W 0655 ERIN EARTH 1 KILDARE ST,		55	55	- 55	-	69 59	CO1 CO1	- CO1	-
1560 4/4-6 THORNE ST, WAGGA V	VAGGA NSW 2650	58	53	52	42	47	-	-	CO1
1561 4/4-6 THORNE ST, WAGGA V	VAGGA NSW 2650	58	53	52	42	48	-	-	C01
562 4-6 THORNE ST, WAGGA WA		58	53	52	42	47	-	-	CO1
563 209A EDWARD ST, WAGGA	WAGGA NSW 2650	58	53	52	42	46	-	-	CO1
1585 5/36 COLLINS ST, TURVEY F		58	53	52	42	50	-	-	CO1
586 6/36 COLLINS ST, TURVEY F		58	53	52	42	50	-	-	CO1
587 6/36 COLLINS ST, TURVEY P 588 36 COLLINS ST, TURVEY PA	AKK NSW 2650	58	53	52	42	50 47	-	-	CO1
588 36 COLLINS ST, TURVEY PA 589 BUILDING 1 UNIT 102 1 FLIN	DERS ST WACCA WA	58 58	53 53	52 52	42 42	47	1	-	CO1 CO1
1673 2/48 BEST ST, WAGGA WAG		58	53	52	42	40	-	-	C01
1674 54 BEST ST, WAGGA WAGG		58	53	52	42	48	-	-	C01
1748 1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53	52	42	67	CO1	CO1	CO1, CO2, (RO,AO)*
1750 1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53	52	42	43	-	-	CO1
751 1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53	52	42	46	-	-	CO1
1752 1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53	52	42	73	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
1753 1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53	52 52	42	46	-	-	CO1
1754  1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53	52	42	46	-	-	CO1
1755 1 KILDARE ST, TURVEY PAR		58 58	53 53	52	42 42	44 49	1	-	CO1 CO1
1757 1 KILDARE ST, TURVEY PAR 1758 1 KILDARE ST, TURVEY PAR	K NSW 2650	58	53 53	52 52	42	49 68	- CO1	- CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	AGGA NSW 2650	55	55	52	72	57	C01	001,002	551, 502, NO, (NO, NIA)

#### W.009 Utility Work (66kV) (night outage 2)

213735 42 COLEMA 213746 48 COLEMA 213786 44 COLEMA 213800 60 COLLINS 213800 45 COLEMA 213800 45 COLEMA 213801 23 COLEMA 213810 23 COLEMA 213811 21 COLEMA 213814 54 COLEMA 213814 54 COLEMA 21382 29 COLEMA 21382 29 COLEMA 21382 29 COLEMA 213930 33 EDMONE 213930 35 EDMONE 213930 35 EDMONE 213970 32 MACLEA 213904 47 MACLEA 213904 47 MACLEA 213904 47 MACLEA 21307 31 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 20 EDMONE 214284 21 EDMONE 214284 21 EDMONE 214284 21 EDMONE 214284 21 EDMONE 214487 21 EDMONE 214487 21 EDMONE 214487 21 EDMONE 214487 21 EDMONE 214488 18 MACLEA 214477 42 COLLINS 214488 18 MACLEA 214477 42 COLLINS 214488 18 MACLEA 214479 17 EDMONE 214488 18 MACLEA 214479 17 EDMONE 214488 18 MACLEA 214479 17 EDMONE 214488 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214488 18 MACLEA 214479 14 COLLINS 214488 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214459 14 MACLEA 214479 14 COLLINS 214459 13 MACLEA 21457 13	ADDRESS N.ST., TURVEY PARK NSW 2650 N.ST., TURVEY PARK NSW 2650 N.ST., TURVEY PARK NSW 2650 S.ST., TURVEY PARK NSW 2650 N.ST., TURVEY PARK NSW 2650 SOON ST., TURVEY PARK NSW 2650 Y.ST., TURVEY PARK NSW 2650 Y.ST., TURVEY PARK NSW 2650 Y.ST., TURVEY PARK NSW 2650 Y.ST., TURVEY PARK NSW 2650 SOON ST., TURVEY PARK NSW 2650 SON ST., TURVEY PARK NSW 2650 Y.ST., TURVEY PARK NSW 2650 Y.ST., TURVEY PARK NSW 2650 SON ST., TURVEY PARK NSW 2650	NML           Daytime           58	NML           Daytimo COH           53	NML           Evening           52	NML           Njpht-time           42	Prodicted Level LAcq(15min) 47 50 48 49 46 47 45 43 45 43 43 44 45 43 44 45 52 50 45 52 50 45 53 47 46	Additional Mitigation Daytime OOH	Additional Mitigation Evening *(-2 consecutive rest periods) - - - - - - - - - - - - - - - - - - -	Additional Mitigation Night *(c-2 consecutive sleep periods) CO1 CO1 CO1 CO1 CO1 CO1 CO1 CO1 CO1 CO1
213627 46 COLEMA 213735 42 COLEMA 213736 42 COLEMA 213746 48 COLEMA 213746 48 COLEMA 213768 44 COLEMA 213800 60 COLLINS 213800 45 COLEMA 213811 21 COLEMA 213811 21 COLEMA 213811 21 COLEMA 213811 45 COLEMA 213818 45 COLEMA 213818 45 COLEMA 213818 45 COLEMA 21382 29 COLEMA 213831 51-53 MACLEA 21392 29 COLEMA 213930 31 EDMONC 213970 32 MACLEA 214072 31 EDMONC 214072 31 EDMONC 214072 31 EDMONC 214072 45 MACLEA 214082 45 MACLEA 214082 45 MACLEA 214082 45 MACLEA 214082 45 MACLEA 214082 45 MACLEA 214072 31 EDMONC 214154 27 EDMANC 214154 27 EDMANC 214258 41 MACLEA 21433 25 EDMONC 214258 41 MACLEA 21432 22 COLLINS 214258 41 MACLEA 21432 22 MACLEA 21432 22 MACLEA 21432 21 EDMONC 214424 19 EDMONC 214426 19 EDMONC 214426 19 EDMONC 214426 19 EDMONC 214284 48 COLLINS 214284 48 COLLINS 214428 41 MACLEA 214427 32 EDMONC 214443 19 EDMONC	N ST. TURVEY PARK NSW 2650 N ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SON ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650	Daytime           58	Bayline OOH           53	Evening           52	Night-time           42	LAcq(15min) 47 50 48 49 46 47 45 43 45 43 44 45 52 50 45 50 45 52 53 47 46		*(>2 consecutive rest periods)  * * * * * * * * * * * * * * * * * *	*(<2 consecutive skeep periods)           CO1           CO1
213735 42 COLEMA 213746 48 COLEMA 213786 44 COLEMA 213800 60 COLLINS 213800 45 COLEMA 213800 45 COLEMA 213801 23 COLEMA 213810 23 COLEMA 213811 21 COLEMA 213814 54 COLEMA 213814 54 COLEMA 21382 29 COLEMA 21382 29 COLEMA 21382 29 COLEMA 213930 33 EDMONE 213930 35 EDMONE 213930 35 EDMONE 213970 32 MACLEA 213904 47 MACLEA 213904 47 MACLEA 213904 47 MACLEA 21307 31 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 20 EDMONE 214284 21 EDMONE 214284 21 EDMONE 214284 21 EDMONE 214284 21 EDMONE 214487 21 EDMONE 214487 21 EDMONE 214487 21 EDMONE 214487 21 EDMONE 214488 18 MACLEA 214477 42 COLLINS 214488 18 MACLEA 214477 42 COLLINS 214488 18 MACLEA 214479 17 EDMONE 214488 18 MACLEA 214479 17 EDMONE 214488 18 MACLEA 214479 17 EDMONE 214488 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214488 18 MACLEA 214479 14 COLLINS 214488 18 MACLEA 214479 14 COLLINS 214489 18 MACLEA 214479 14 COLLINS 214459 14 MACLEA 214479 14 COLLINS 214459 13 MACLEA 21457 13	N ST. TURVEY PARK NSW 2650 N ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SON ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 SON ST. TURVEY PARK NSW 2650	58         58           58         <	53           53	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	50 48 49 46 47 45 43 45 43 44 45 48 45 52 50 45 52 50 45 53 47 46		- 	C01
213746 48 COLEMA 213768 44 COLEMA 213800 69 COLL014 213800 69 COLL014 213810 25 COLEMA 213811 25 COLEMA 213811 21 COLEMA 213811 21 COLEMA 213811 21 COLEMA 213818 30 COLEMA 213818 30 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213828 35 COLEMA 213920 21 COLEMA 213930 31 SEDMONE 213970 32 MACLEA 214075 29 EDMONE 214072 31 EDMONE 214072 31 EDMONE 214072 31 EDMONE 214072 25 EDMONE 214072 45 MACLEA 214156 43 MACLEA 214156 43 MACLEA 214156 43 MACLEA 214158 41 MACLEA 214158 41 MACLEA 214158 41 MACLEA 214158 41 MACLEA 21428 41 MACLEA 21433 25 EDMONE 21428 41 COLLINS 21428 41 COLLINS 21428 41 COLLINS 21428 41 COLLINS 214428 41 COLLINS 214442 18 EDMONE 214497 35 MACLEA 214473 32 EDMONE 214320 21 MACLEA 214373 21 EDMONE 214284 48 COLLINS 214428 41 COLLINS 214443 19 EDMONE 214442 18 EDMONE 214442 18 EDMONE 214442 18 EDMONE 214443 19 EDMONE 214444 19 EDMONE 214444 19 EDMONE 214445 19 COLLINS 214457 14 RACLEA 21457 13 MACLEA 21457 13 MACLEA	N ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 N ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650	58         58           58         <	53         53           53         53	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	48 49 46 47 45 43 43 43 43 43 44 43 45 52 50 45 50 45 53 47 46	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	C01
213800 60 COLLINS 213804 25 COLEMA 213811 23 COLEMA 213811 23 COLEMA 213811 23 COLEMA 213811 21 COLEMA 213818 50 COLEMA 213818 50 COLEMA 213818 50 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213884 34 MACLEA 213984 34 MACLEA 213994 71 MACLEA 213994 71 MACLEA 214075 29 EDMONC 214092 54 COLLINS 214075 29 EDMONC 214022 54 COLLINS 214075 29 EDMONC 214022 54 COLLINS 214112 82 MACLEA 214156 43 MACLEA 214156 44 MACLEA 214173 32 COLLINS 214284 41 MACLEA 214307 23 EDMONC 21432 48 COLLINS 214284 41 MACLEA 21432 48 COLLINS 214324 48 COLLINS 214324 48 COLLINS 214424 41 COLLINS 214425 41 COLLINS 214426 41 COLLINS 214426 41 COLLINS 214427 42 COLLINS 214428 42 COLLINS 214428 42 COLLINS 214429 41 COLLINS 214439 41 COLLINS 214449 41 COLLINS 214449 41 COLLINS 214457 31 COLENS 4157 31 C	ST, TURVEY PARK NSW 2650 N ST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650	58         58           58         <	$\begin{array}{c} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$	52           52	42 42 42 42 42 42 42 42 42 42 42 42 42 4	46           47           45           43           45           43           45           50           52           50           45           53           46	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	C01
213810 23 COLEMA 213811 21 COLEMA 213811 35 COLEMA 213818 50 COLEMA 213818 50 COLEMA 213818 50 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213821 31 51-53 IMACL 213820 33 EDMONE 213920 32 EDMONE 213920 32 EDMONE 214029 30 MACLEA 214027 30 MACLEA 214027 30 MACLEA 214027 30 MACLEA 214028 20 MACLEA 214028 20 MACLEA 214028 20 MACLEA 214027 20 EDMONE 214029 24 COLLINS 214028 41 MACLEA 214171 32 COLLINS 214284 41 MACLEA 214128 41 MACLEA 214284 41 MACLEA 214284 41 MACLEA 214320 23 EDMONE 214284 41 COLLINS 214284 41 COLLINS 214284 41 COLLINS 214482 41 COLLINS 21457 41 COLLINS 21457 41 COLLINS	N ST, TURVEY PARK NSW 2650 N ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650	68         68           58         58           58         <	53 53 53 53 53 53 53 53 53 53 53 53 53 5	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	45 43 45 43 44 45 45 52 50 45 53 45 53 47 46	<ul> <li>-</li> <li>-</li></ul>	- - - - - - - - - - - - - - - - - - -	CO1
213811 21 COLEMA 213814 54 COLEMA 213818 50 COLEMA 213821 50 COLEMA 213821 51-53 MACL 213823 52 COLEMA 213823 51-53 MACL 213823 51 COLEMA 213930 33 EDMONE 213970 32 MACLEA 213994 47 MACLEA 213970 32 MACLEA 214007 31 EDMONE 214002 31 EDMONE 214022 35 MACLEA 214075 29 EDMONE 214022 54 COLLINS 214075 29 EDMONE 214012 54 COLLINS 214014 27 EDMONE 214111 28 MACLEA 214054 47 EDMONE 21423 25 EDMONE 21424 48 COLLINS 214424 30 MACLEA 214377 32 EDMONE 214387 21 EDMONE 214387 21 EDMONE 214397 21 EDMONE 214397 21 EDMONE 214397 21 EDMONE 214397 21 EDMONE 214497 37 MACLEA 214471 42 COLLINS 214489 19 FEMONE 214497 19 FEMONE 21457	N ST, TURVEY PARK NSW 2650 N ST, TURVEY PARK NSW 2650 N ST, TURVEY PARK NSW 2650 EAY ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58         58           58         <	53 53 53 53 53 53 53 53 53 53 53 53 53 5	52 52 52 52 52 52 52 52 52 52 52 52 52 5	42 42 42 42 42 42 42 42 42 42 42 42 42 4	43 45 43 44 45 45 52 50 45 53 45 53 47 46	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	C01
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214233         25 EDMOND           214254         50 COLLINS           214254         41 MACLEA           214264         24 MACLEA           214264         24 MACLEA           214307         23 EDMOND           214307         23 EDMOND           214320         39 MACLEA           214327         21 MACLEA           214338         22 MACLEA           214373         31 EDMOND           214407         37 MACLEA           214410         20 MACLEA           214410         20 MACLEA           214411         42 COLLINS           214428         18 MACLEA           214429         18 MACLEA           214428         18 MACLEA           214429         16 MACLEA           214429         16 MACLEA           214421         17 EDMOND           214451         16 MACLEA           214541         16 MACLEA           214551         39 COLLINS	SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58 58 58 58 58 58 58	53 53		42	46	-	-	CO1
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214443 19 EDMONE 214459 41 COLLINS 214482 18 MACLEA 214481 35 MACLEA 214512 42 COLLINS 214519 17 EDMONE 2145519 16 MACLEA 214551 33 OCLLINS 214557 33 MACLEA	ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 46	-	-	CO1 CO1
214459 41 COLLINS 214482 18 MACLEA 214487 35 MACLEA 214487 35 MACLEA 214512 42 COLLINS 214519 17 EDMOND 214519 16 MACLEA 214557 33 MACLEA	SON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 58	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214487 35 MACLEA 214512 42 COLLINS 214519 17 EDMOND 214549 16 MACLEA 214551 39 COLLINS 214557 33 MACLEA	ST, TURVEY PARK NSW 2650	58	53	52	42	43	-		CO1
214519 17 EDMOND 214549 16 MACLEA 214551 39 COLLINS 214557 33 MACLEA	Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 47	-	-	CO1 CO1
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214557 33 MACLEA	Y ST, TURVEY PARK NSW 2650	58	53	52	42	48	-	-	CO1
	ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 48	-	-	CO1 CO1
	ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 64	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214608 ERIN EARTH	1 1 KILDARE ST, TURVEY PARK NSW	55	55	-	-	57	CO1	-	-
214617 37 COLLINS	Y ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	54 44	CO1 -	-	CO1 CO1
	Y ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 46	-	-	CO1 CO1
214645 13 EDMONE	SON ST, TURVEY PARK NSW 2650	58	53	52	42	63	CO1	CO1	CO1, CO2, (RO,AO)*
214689 35 COLLINS	Y ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 44	-	-	CO1 CO1
	SON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	66 50	CO1	CO1	CO1, CO2, (RO,AO)* CO1
214727 3/36 COLLIN	IS ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 48	-	-	CO1 CO1
214754 31 COLLINS	ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	*	CO1
	SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	67 43	CO1	- CO1	CO1, CO2, (RO,AO)* CO1
214793 8 MACLEAY	ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 52	-	CO1	CO1 CO1
214829 32 COLLINS	Y ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
	SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	67 56	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1
214874 68 RAILWAY	ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 47	-	-	CO1 CO1
214901 25 MACLEA	Y ST, TURVEY PARK NSW 2650	58	53	52	42	56	CO1	CO1	CO1
	SON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	67 43	- CO1	- CO1	CO1, CO2, (RO,AO)* CO1
	ST, TURVEY PARK NSW 2650 ANE, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 49	-	-	CO1 CO1
214926 4 MACLEAY	ST, TURVEY PARK NSW 2650	58	53	52	42	54	CO1	C01	CO1
214939 23 MACLEA	ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 53	-	- CO1	CO1 CO1
	SON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	66 48	CO1	- CO1	CO1, CO2, (RO,AO)* CO1
214975 21 FLINDER	S ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58	53	52	42	47	- CO1	- CO1	CO1
214984 23 COLLINS	ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	55 46	-	-	CO1 CO1
	ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	61 47	CO1 -	- CO1	CO1, CO2, (RO,AO)* CO1
215023 1 EDMONDS	SON ST, TURVEY PARK NSW 2650 IS ST, TURVEY PARK NSW 2650	58	53	52	42	67	CO1	CO1	CO1, CO2, (RO,AO)*
215072 82 RAILWAY	ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 53	-	- CO1	CO1 CO1
215077 80 RAILWAY	Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 53	-	- CO1	CO1 CO1
215108 86 RAILWAY	/ ST, TURVEY PARK NSW 2650 / ST, TURVEY PARK NSW 2650	58	53	52	42	52	-	-	CO1
215132 90 RAILWAY	ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 53	-	CO1 CO1	CO1 CO1
215151 94 RAILWAY 215160 92 RAILWAY	Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	55 54	CO1 CO1	CO1 CO1	CO1 CO1
215161 96 RAILWAY	Y ST, TURVET PARK NSW 2000 Y ST, TURVEY PARK NSW 2650	58	53	52	42	56	CO1	CO1	CO1
215180 3 ERIN ST, 1	TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	60 61	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
	TURVEY PARK NSW 2650 TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	62 63	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215216 9 ERIN ST, T	URVEY PARK NSW 2650	58	53	52	42	69	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
215326 6 KILDARE S	TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	71 44	CO1, CO2 -	CO1, CO2 -	CO1, CO2, RO, (AO, AltA)* CO1
215356 3 NORMAN	ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 47	-	-	CO1 CO1
215412 2 KILDARE \$	ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
215689 6-10 STATIC	PL, WAGGA WAGGA NSW 2650 NN PL, WAGGA WAGGA NSW 2650	58 45	53 45	52	42	53 53	- CO1	CO1 -	CO1 -
	Y AV, WAGGA WAGGA NSW 2650 Y AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	78 71	CO1, CO2 CO1, CO2	CO1, CO2, (RO)* CO1, CO2	CO1, CO2, RO, (AO, AltA)* CO1, CO2, RO, (AO, AltA)*
215725 6 DONNELL	Y AV, WAGGA WAGGA NSW 2650	58	53	52	42	60	CO1	CO1	CO1, CO2, (RO,AO)*
215746 12 DONNEL	Y AV, WAGGA WAGGA NSW 2650 LY AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	59 57	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1
215749 22 BROOKO	NG AV, WAGGA WAGGA NSW 2650 LY AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 59	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215799 2 LITTLE BE	ST ST, WAGGA WAGGA NSW 2650	58	53	52	42	79	CO1, CO2	CO1, CO2, (RO)*	CO1, CO2, RO, (AO, AltA)*
215846 4 LITTLE BE	VAGGA WAGGA NSW 2650 ST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	59 79	CO1 CO1, CO2	CO1 CO1, CO2, (RO)*	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
215849 18 BROOKO	NG AV, WAGGA WAGGA NSW 2650 D ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 50	-	-	CO1 CO1
215849 18 BROOKU 215874 188 EDWAR		58 58	53 53	52 52 52	42 42	82 60	CO1, CO2 CO1	CO1, CO2, (RO)*	CO1, CO2, RO, (AO, AltA)* CO1, CO2, (RO,AO)*
215874 188 EDWAR 215892 6 LITTLE BE	ST ST, WAGGA WAGGA NSW 2650			52	42	00	1001		IOOL OOZ, INUAUI
215874 188 EDWAR 215892 6 LITTLE BE 215908 3 FOX ST, W 215925 140 EDWAR	ST ST, WAGGA WAGGA NSW 2650 /AGGA WAGGA NSW 2650 D ST, WAGGA WAGGA NSW 2650 ST ST, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	62 78	CO1 CO1, CO2	CO1 - CO1, CO2, (RO)*	- CO1, CO2, RO, (AO, AltA)*

#### W.009 Utility Work (66kV) (night outage 2)

W.009 C	tility Work (66kV) (night outage 2)							Additional Mitigation	Additional Mitigation
SLR ID	ADDRESS	NML Daytime	NML Daytime OOH	NML Evening	NML Night-time	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Evening *(>2 consecutive rest periods)	Night *(>2 consecutive sleep periods)
215984 216060	5 FOX ST, WAGGA WAGGA NSW 2650 156 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	59 69	CO1 CO1, CO2	CO1 CO1, CO2	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
216085 216094	158 EDWARD ST, WAGGA WAGGA NSW 2650 160 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	63 62	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
216099 216103	162 EDWARD ST, WAGGA WAGGA NSW 2650 164 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 50	-	-	CO1 CO1
216107 216117	168 EDWARD ST, WAGGA WAGGA NSW 2650 166 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 49	-	-	CO1 CO1
216128 216181	170 EDWARD ST, WAGGA WAGGA NSW 2650 2 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	47 56	- CO1	- CO1	CO1 CO1
216186 216226 216245	127 EDWARD ST, WAGGA WAGGA NSW 2650 4 PETER ST, WAGGA WAGGA NSW 2650 131A EDWARD ST, WAGGA WAGGA NSW 2650	60 58 58	60 53 53	60 52 52	45 42 42	47 56 59	- CO1 CO1	- CO1 CO1	CO1 CO1 CO1, CO2, (RO,AO)*
216256 216281	196 EDWARD ST, WAGGA WAGGA NSW 2650 133 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	45 59	- CO1	- C01	CO1 CO1, CO2, (RO,AO)*
216284 216292	6 PETER ST, WAGGA WAGGA NSW 2650 202 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	50 44	-	-	CO1 CO1
216298 216315	153 EDWARD ST, WAGGA WAGGA NSW 2650 8 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	60 48	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
216323 216333	157 EDWARD ST, WAGGA WAGGA NSW 2650 161 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	55 54	CO1 CO1	CO1 CO1	CO1 CO1
216346 216360	131A EDWARD ST, WAGGA WAGGA NSW 2650 163 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	56 50	CO1 -	CO1 -	CO1 CO1
216378 216391	10 PETER ST, WAGGA WAGGA NSW 2650 1/173 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 48	-	-	CO1 CO1
216401 216404	WOMBOY 5/165 EDWARD ST, WAGGA WAGGA N 8 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	54 59	CO1 CO1 CO1	CO1 CO1 CO1	CO1 CO1, CO2, (RO,AO)* CO1
216433 216434 216437	9 BEST ST, WAGGA WAGGA NSW 2650 177 EDWARD ST, WAGGA WAGGA NSW 2650 12 PETER ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	56 45 43	-	-	C01 C01
216448 216464	175 EDWARD ST, WAGGA WAGGA NSW 2050 179 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 46 44	-	-	CO1 CO1
216472 216480	173 EDWARD ST, WAGGA WAGGA NSW 2650 189 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	45	-	-	CO1 CO1
216485 216486	12 BEST ST, WAGGA WAGGA NSW 2650 191 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	49 44	-	-	CO1 CO1
216487 216498	11A BEST ST, WAGGA WAGGA NSW 2650 14 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	55 47	CO1	CO1 -	CO1 CO1
216520 216521	7 FOX ST, WAGGA WAGGA NSW 2650 2/4-6 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 45	-	-	CO1 CO1
216540 216547	14 BEST ST, WAGGA WAGGA NSW 2650 13 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 56	- CO1	- CO1	CO1 CO1
216558 216561	9 FOX ST, WAGGA WAGGA NSW 2650 20 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 49	-	-	CO1 CO1
216564 216585	10 FOX ST, WAGGA WAGGA NSW 2650 16 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 51	-	-	CO1 CO1
216587 216589	4/11 FOX ST, WAGGA WAGGA NSW 2650 8 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
216603 216624	17 BEST ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	54 45	CO1 -	CO1 -	CO1 CO1
216626 216642	22 PETER ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44	-	-	CO1 CO1
216643 216649	4/11 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	53 44	-	CO1 -	CO1 CO1
216668 216678	19 BEST ST, WAGGA WAGGA NSW 2650 24 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 43	-	-	CO1 CO1
216683 216700	14 FOX ST, WAGGA WAGGA NSW 2650 20 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44 52	-	-	CO1 CO1
216721 216726 216729	13 FOX ST, WAGGA WAGGA NSW 2650 21 BEST ST, WAGGA WAGGA NSW 2650 26 PETER ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 53 45	-	- CO1	CO1 CO1 CO1
216733	16 FOX ST, WAGGA WAGGA NSW 2650 28 PETER ST, WAGGA WAGGA NSW 2650 28 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 43 45		-	C01 C01
216781 216798	24 BEST ST, WAGGA WAGGA NSW 2650 23 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47	-	-	C01 C01
216846	26 BEST ST, WAGGA WAGGA NSW 2650 26 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	51 43	-	-	CO1 CO1
216926 216934	28 BEST ST, WAGGA WAGGA NSW 2650 32 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 44	-	-	CO1 CO1
216985 216994	30 BEST ST, WAGGA WAGGA NSW 2650 29 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 49	-	-	CO1 CO1
217038 217052	32 BEST ST, WAGGA WAGGA NSW 2650 31 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 49	-	-	CO1 CO1
217115	34 BEST ST, WAGGA WAGGA NSW 2650 33 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 50	-	-	CO1 CO1
217181	36 BEST ST, WAGGA WAGGA NSW 2650 35 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 49	-	-	CO1 CO1
217271 217306	42 BEST ST, WAGGA WAGGA NSW 2650 42 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
	44 BEST ST, WAGGA WAGGA NSW 2650 41 BEST ST, WAGGA WAGGA NSW 2650 42 DEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	46 48	-	-	CO1 CO1
217406 217432	46 BEST ST, WAGGA WAGGA NSW 2650 43 BEST ST, WAGGA WAGGA NSW 2650 1/48 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53 53	52 52	42	46 46	-	-	CO1 CO1
217445 217462 217499	45 BEST ST, WAGGA WAGGA NSW 2650 50 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 45 45	-	-	CO1 CO1 CO1
217641 217680	49 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	44 45	-	-	CO1 CO1
217743	55 BEST ST, WAGGA WAGGA NSW 2050 57 BEST ST, WAGGA WAGGA NSW 2650 57 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	45 45 43	-	-	CO1 CO1
217808 217831	59 BEST ST, WAGGA WAGGA NSW 2650 64 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	43 43	-	-	CO1 CO1
217863 217915	66 BEST ST, WAGGA WAGGA NSW 2650 67 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	45 44	-	-	CO1 CO1
1108649 1108869	24-26 BROOKONG AV, WAGGA WAGGA NSW 265 ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW	58 55	53 55	52	42	44 71	- CO1, CO2	-	- CO1
1108960 1108976	58 BEST ST, WAGGA WAGGA NSW 2650 27 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 52	-	-	CO1 CO1
1109034	8 PETER ST, WAGGA WAGGA NSW 2650 2/56 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 46	-	CO1 -	CO1 CO1
1110631 1110632	140 EDWARD ST, WAGGA WAGGA NSW 2650	55 55	55 55		-	72 65	CO1, CO2 CO1	-	-
1111561	4/4-6 THORNE ST, WAGGA WAGGA NSW 2650 4/4-6 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	43 44	-	-	CO1 CO1
1111585		58 58	53 53	52 52	42	43 46	-	-	CO1 CO1
1111587	6/36 COLLINS ST, TURVEY PARK NSW 2650 6/36 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	46 46	-	-	CO1 CO1
1111589	36 COLLINS ST, TURVEY PARK NSW 2650 BUILDING 1 UNIT 102 1 FLINDERS ST, WAGGA W, 54 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 44 44	-	-	CO1 CO1 CO1
	1 KILDARE ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	63 69	- CO1 CO1, CO2	- CO1 CO1, CO2	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
1111757	1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 66	- - CO1	- C01	CO1, CO2, RO, (AO, AltA) <sup>2</sup> CO1 CO1, CO2, (RO,AO)*
1111/58	THEDARE ST, TURVET PARK NOW 2000	00	53	52	42	00	1001	1001	001, 002, (RU,AU)

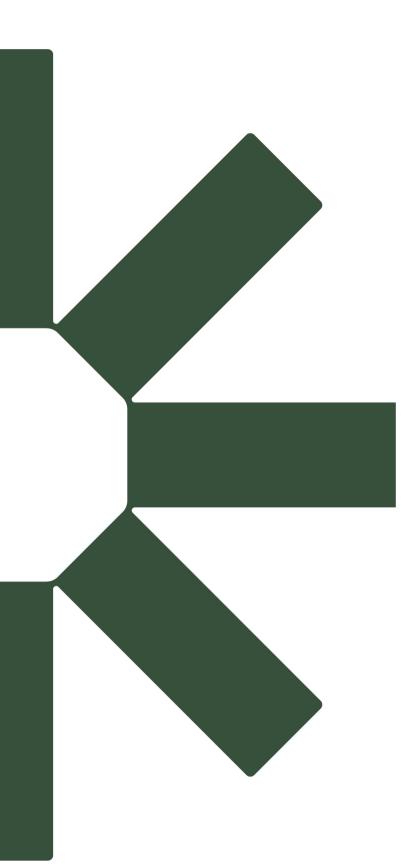
	W.014 Ut	ility Work - essential energy work								
NUM         NUMB         Point         NUMB         NUMB        NUMB        N									Additional Mitigation	Additional Mitigation
Desc         Desc <thdesc< th="">         Desc         Desc         <thd< th=""><th></th><th></th><th>Daytime</th><th>Daytime OOH</th><th>Evening</th><th>Night-time</th><th>LAeq(15min)</th><th></th><th></th><th>*(&gt;2 consecutive sleep periods)</th></thd<></thdesc<>			Daytime	Daytime OOH	Evening	Night-time	LAeq(15min)			*(>2 consecutive sleep periods)
JAM         JAM <th>212629</th> <th>33 GRANDVIEW AV, TURVEY PARK NSW 2650</th> <th>58</th> <th>53</th> <th>52</th> <th>42</th> <th>44</th> <th>-</th> <th>•</th> <th>CO1</th>	212629	33 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	44	-	•	CO1
1.4.00         0.00000000000000000000000000000000000	212669	35 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	44	- -	-	CO1
Chan         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcont< td=""><td>212710</td><td>6 GRANDVIEW AV, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>43</td><td>-</td><td>-</td><td>CO1</td></thcont<></thcontrol<></thcontrol<>	212710	6 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
Chan         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcont< td=""><td>212780</td><td>16 GRANDVIEW AV, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>44</td><td>-</td><td>-</td><td>CO1</td></thcont<></thcontrol<></thcontrol<>	212780	16 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
	212882	26-28 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
Desc         Desc <thdesc< th="">         Desc         Desc         <thd< td=""><td>212906</td><td>36 GRANDVIEW AV, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>43</td><td>-</td><td>-</td><td>CO1</td></thd<></thdesc<>	212906	36 GRANDVIEW AV, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
Date         Mode 2         Mode 3         Mode 3 <td>212929</td> <td>10 TREVOR ST, TURVEY PARK NSW 2650</td> <td>58</td> <td>53</td> <td>52</td> <td>42</td> <td>43</td> <td>-</td> <td>-</td> <td>C01</td>	212929	10 TREVOR ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	C01
	213063	6 JARICK ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
	213096	12 JARICK ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	CO1
Name         Name <th< td=""><td>213110</td><td>14 JARICK ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>44</td><td>-</td><td>•</td><td>CO1</td></th<>	213110	14 JARICK ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	•	CO1
	213229	2 TREVOR ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
	213274	26 GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
	213317	32 GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	49	-		CO1
	213326	5 TURNER ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
	213334	38 GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	44	- -	-	CO1
	213341	42 GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
	213378 213386	52 GARLAND ST, TURVEY PARK NSW 2650 54 GARLAND ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 45	-	•	CO1 CO1
	213466 213471	16 ATHOL ST, TURVEY PARK NSW 2650 21 GARLAND ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 45		*	CO1 CO1
Dist         Disk         Disk <thdisk< th="">         Disk         Disk         <thd< td=""><td>213490</td><td>18 ATHOL ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>43</td><td>-</td><td>-</td><td>CO1</td></thd<></thdisk<>	213490	18 ATHOL ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
Diab.         Diab. <th< td=""><td>213513</td><td>29 GARLAND ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>51</td><td>- -</td><td>-</td><td>CO1</td></th<>	213513	29 GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	51	- -	-	CO1
Disp.         Subs. doi:         Disp.         Subs. doi:         Disp.         Subs.	213524	27 GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	47	-	-	CO1
Disol         Six GAP. Build T. Linger York Nov 200         Six GAP. Build T. Li	213572	35 GARLAND ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 50	-	-	CO1
TUDE         COLLMAN T. TARKY PARK SUR 200         90         0.0         52         42         46         -         -         000           TIDE         BCOLMAN T. TARKY PARK SUR 200         90         0.0         2.2         4.2         4.4         -         -         0.0           TIDE         SCOLMAN T. TARKY PARK SUR 200         90         0.0         2.2         4.2         4.4         -         -         0.0           TIDE         SCOLMAN T. TARKY PARK SUR 200         90         0.0         2.2         4.2         4.4         0.0         -         0.0           TIDE         SCOLMAN T. TARKY PARK SUR 200         90         0.0         2.2         4.2         4.2         0.0         -         0.0           TIDE         SCOLMAN T. TARKY PARK SUR 200         90         0.0         2.2         4.2         4.2         0.0         -         0.0	213585	33A GARLAND ST, TURVEY PARK NSW 2650	58	53	52	42	47	-		CO1
TITED         Date of Tuber Park Nov 260         So	213746	48 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	CO1
Table         COLDENSAT         UNITY PARK NUM 200         So         <	213797	13 ATHOL ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
THESE         © COLLAWA ST LUNKY PARK NSW 2000         68         81         62         42         62         -         -         COL         COL           SINE         TUBKY PARK NSW 2000         68         53         62         42         42         -         -         COL         COL           SINE         TUBKY PARK NSW 2000         68         53         62         42         42         -         -         COL         COL           SINE         TUBKY PARK NSW 2000         68         53         62         42         44         -         -         COL         COL           SINE         TUBKY PARK NSW 2000         68         53         62         42         44         -         -         COL	213818	50 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	- CO1	CO1
THENE         CONTRACT         CONTRACT <t< td=""><td></td><td>58 COLEMAN ST, TURVEY PARK NSW 2650</td><td>58</td><td>53 53</td><td></td><td></td><td>52</td><td>-</td><td>-</td><td></td></t<>		58 COLEMAN ST, TURVEY PARK NSW 2650	58	53 53			52	-	-	
P1000         B         A         B         B         B         B         C         C         C         C           P1002         B         CALMAN TURKY PARK NOV 200         B         B         C	213913	4 TURNER ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	CO1 -	C01
21488         21488         21488         21488         21488         2148	214003	25 ATHOL ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
21415         BA COLEMAN ST. TURY PARK NRV 2800         68         63         92         42         44         -         CONT           21416         ACCLAMAN ST. TURY PARK NRV 2800         68         63         92         44         4         -         CONT           21416         ACCLAMAN ST. TURY PARK NRV 2800         68         63         62         42         44         -         CONT           21424         H COLAMAN ST. TURY PARK NRV 2800         68         53         62         42         44         -         CONT           214245         J COLAMAN ST. TURY PARK NRV 2800         68         53         62         42         44         -         CONT         CONT           214245         J COLAMAN ST. TURY PARK NRV 2800         68         53         62         44         44         -         CONT         CONT           214205         B COLAMAN ST. TURY PARK NRV 2800         68         53         52         42         44         -         CONT         CONT           214205         B COLAMAN ST. TURY PARK NRV 2800         68         53         52         42         44         -         CONT         CONT           214210         DCOLAMAN ST. TURY PARK NRV 2800	214038	2 TURNER ST, TURVEY PARK NSW 2650	58	53	52	42	43	- -	-	CO1
21-211         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         92         42         44         -         COD           212428         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         92         42         44         -         COD           212429         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         92         42         46         -         COD           212429         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         92         42         46         -         COD           212430         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         92         42         44         -         COD           212430         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         82         42         44         -         COD           214310         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         82         42         44         -         COD           214310         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         52         42         44         -         COD           214310         BC COLEMAN ST. LUKEY PARK NEW 2800         68         53         52         42	214181 214187	88A COLEMAN ST, TURVEY PARK NSW 2650 90 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
212-022         38         COLLMAN ST. TURKY PARK NEW 2800         98         63         52         42         44         -         -         COI           212-08         GOLMAN ST. TURKY PARK NEW 2800         98         0.0         9.2         4.2         4.4         -         -         COI           212-08         GOLMAN ST. TURKY PARK NEW 2800         98         0.0         9.2         4.2         4.4         -         -         COI           212-08         IGOLMAN ST. TURKY PARK NEW 2800         98         50         52         4.2         4.4         -         -         COI           214-01         IGOLMAN ST. TURKY PARK NEW 2800         98         50         52         4.2         4.4         -         -         COI           214-01         IGOLMAN ST. TURKY PARK NEW 2800         98         50         52         4.2         4.4         -         -         COI           214-01         IGOLMAN ST. TURKY PARK NEW 2800         98         50         52         4.2         4.4         -         -         COI           214-03         IGOLMAN ST. TURKY PARK NEW 2800         98         50         52         4.2         4.4         -         -         COI         <	214211 214243	96 COLEMAN ST, TURVEY PARK NSW 2650 94 COLEMAN ST, TURVEY PARK NSW 2650		53	52		44	-	-	CO1
212-02         SICCLEMAN ST. TURKY PARK NSV 2800         98         83         52         42         48         -         -         COI           21208         BICCLEMAN ST. TURKY PARK NSV 2800         93	214275	59 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	<u>CO1</u>	CO1
21450         100         COLEMAN ST. UURY PARK NOW 2600         68         63         52         42         44         -         -         CO1           21430         104         COLEMAN ST. UURY PARK NOW 2600         68         63         62         44         -         -         CO1           21431         104         COLEMAN ST. UURY PARK NOW 2600         68         63         62         42         44         -         -         CO1           21432         450         COLEMAN ST. UURY PARK NOW 2600         68         63         52         42         44         -         -         CO1           21430         116         COLEMAN ST. UURY PARK NOW 2600         68         63         52         42         44         -         -         CO1           21440         110         COLEMAN ST. UURY PARK NOW 2600         68         63         62         42         44         -         -         CO1           21440         110         COLEMAN ST. UURY PARK NOW 2600         68         63         62         42         44         -         -         CO1           21444         24         NORMAN ST. UURY PARK NOW 2600         68         63         62         42<	214290	63 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	48	-	-	CO1
21313         85         COLEMAN ST. TURKY PARK NSV 2800         68         63         62         42         44         -         -         CO1           21423         100 CLEMAN ST. TURKY PARK NSV 2800         68         63         62         42         44         -         -         CO1           21423         101 CLEMAN ST. TURKY PARK NSV 2800         68         63         62         42         44         -         -         CO1           21430         110 CLEMAN ST. TURKY PARK NSV 2800         68         63         52         42         43         -         -         CO1           214408         101 CLEMAN ST. TURKY PARK NSV 2800         58         63         52         42         44         -         -         CO1           214408         101 CLEMAN ST. TURKY PARK NSV 2800         58         63         52         42         44         -         -         CO1         CO1           21456         21 NORMAN ST. TURKY PARK NSV 2800         58         63         52         42         44         4         -         -         CO1	214301	102 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
21450         114 COLEMAN ST, TURKY PARK NSW 2550         68         53         62         42         43	214316	65 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	47	-		CO1
21438         106         COLEMAN ST, TURVEY PARK NSW 2850         58         53         52         42         43         -         -         CO1           214408         110         COLEMAN ST, TURVEY PARK NSW 2850         58         53         52         42         45         -         -         CO1           214458         SI NUMAN ST, TURVEY PARK NSW 2850         58         53         52         42         44         -         -         CO1           21455         SI NUMAN ST, TURVEY PARK NSW 2850         58         53         52         42         44         -         -         CO1           214552         SI NUMAN ST, TURVEY PARK NSW 2850         58         53         52         42         40         -         -         CO1           214562         SI NUMAN ST, TURVEY PARK NSW 2850         58         53         52         42         47         -         -         CO1           214662         SI NUMAN ST, TURVEY PARK NSW 2850         58         53         52         42         47         -         -         CO1           214662         SI NURAN ST, TURVEY PARK NSW 2850         58         53         52         42         47         -         -         C	214350	114 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
214484         34 KLDARE ST, TURKY PARK NSW 2850         58         53         52         42         55         CO1         CO1         CO1           214552         31 NDRMAN ST, TURKY PARK NSW 2850         58         53         52         42         44         -         -         CO1         CO1         CO1, CO2, (RO, AO)*           214552         32 NDRMAN ST, TURKY PARK NSW 2850         58         53         52         42         48         -         -         CO1         CO1         CO1, CO2, (RO, AO)*           214562         32 NDRMAN ST, TURKY PARK NSW 2850         58         53         52         42         59         CO1         CO1         CO1, CO2, (RO, AO)*           214582         32 NDRMAN ST, TURKY PARK NSW 2850         58         53         52         42         47         -         -         CO1         CO1         CO1, CO2, (RO, AO)*           214682         32 NDRMAN ST, TURKY PARK NSW 2850         58         53         52         42         47         -         -         CO1         CO1         CO1, CO2, (RO, AO)*           214692         43 NDAMAN ST, TURKY PARK NSW 2850         58         53         52         42         47         -         -         CO1         CO1	214363	106 COLEMAN ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
214582       24 KLDARE ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       CO1       CO1, CO2, (RO,AO)*         214567       28 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       58       CO1       CO1       CO1         214574       28 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       58       CO1       CO1       CO1       CO1         214640       26 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1	214484	34 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	55	- CO1	- CO1	CO1
214592       29 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       50       -       -       CO1         214582       20 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214680       27 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       44       -       -       CO1         214680       28 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       44       -       -       CO1         214680       28 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       45       -       -       CO1         214687       24 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214721       25 COLEMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214723       26 NORANA ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214723       13 NORARAY ST, TURVEY PARK NSW 2650       58       53       52       42       <	214532	32 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	58	CO1 -	CO1 -	CO1, CO2, (RO,AO)*
214640       25 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214680       25 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       44       -       -       CO1         214686       25 NUERARY ST, TURVEY PARK NSW 2650       58       53       52       42       44       -       -       CO1         214687       24 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214721       25 COLEMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214732       25 COLEMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1       CO1       CO1       CO1       21/07       13 NUREARY ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1       CO1       CO1       CO1       CO1       CO1       CO1       CO1       21/07       10 NUREARY ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1       CO1 <td>214574 214592</td> <td>29 NORMAN ST, TURVEY PARK NSW 2650 30 KILDARE ST, TURVEY PARK NSW 2650</td> <td>58 58</td> <td>53 53</td> <td>52 52</td> <td>42 42</td> <td>50 58</td> <td>- CO1</td> <td>- CO1</td> <td>CO1 CO1, CO2, (RO,AO)*</td>	214574 214592	29 NORMAN ST, TURVEY PARK NSW 2650 30 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 58	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214668       28 KLDARE ST, TURVEY PARK NSW 2650       58       53       52       42       59       CO1       CO1       CO1, CO2, (RO,AO)'         214712       25 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214712       25 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214723       25 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1       CO1       CO1, CO2, (RO,AO)'         214737       13 NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1	214640 214650	26 NORMAN ST, TURVEY PARK NSW 2650 27 NORMAN ST, TURVEY PARK NSW 2650	58	53 53	52 52	42 42	47 44	-	•	CO1 CO1
214712       25 NOPEMAN ST. TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214722       75 COLEMAN ST. TURVEY PARK NSW 2650       58       53       52       42       47       -       -       CO1         214725       25 KILDARE ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214766       22 NORMAN ST. TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214776       10 INVERARY ST. TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214777       10 INVERARY ST. TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214777       79 DOCKER ST, WAGGA WAGGA NSW 2650       58       53       52       42       43       -       -       CO1         214787       24 KILDARE ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214787       24 KILDARE ST. TURVEY PARK NSW 2650       58       53       52       42	214666	28 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	59	- CO1	- CO1	CO1, CO2, (RO,AO)*
214735       26 KILDARE ST, TURVEY PARK NSW 2650       58       53       52       42       60       CO1       CO1       CO1, CO2, (RO.AO)*         214737       13 NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       CO1         21476       22 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       CO1         214773       13 NORARAY ST, TURVEY PARK NSW 2650       58       53       52       42       49       -       CO1         214775       10 NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214775       10 NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214787       12 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214827       21 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214827       10 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -	214712	25 NORMAN ST, TURVEY PARK NSW 2650	58	53	52	42	47	-	-	CO1
214766       22 NORMAN ST. TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214773       10 NVERARY ST. TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214775       10 NVERARY ST. TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214775       70 DOCKER ST. WAGGA WAGA NSW 2650       58       53       52       42       43       -       -       CO1         214787       24 KILDARE ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214827       20 NORMAN ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214846       21 NORMAN ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214861       22 KILDARE ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214861       22 KILDARE ST. TURVEY PARK NSW 2650       58       53       52       42	214735	26 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	60	CO1	CO1	CO1, CO2, (RO,AO)*
214777       7/9 DOCKER ST. WAGGA WAGGA NSW 2650       58       53       52       42       43       -       -       CO1         214787       24 KUDARE ST. TURVEY PARK NSW 2650       58       53       52       42       60       CO1       CO1       CO1, CO2, (RO, AD)*         214811       11 INVERARY ST. TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214827       20 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214846       1. NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214846       S. NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214860       B. NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214861       S. NURVERAY ST, TURVEY PARK NSW 2650       58       53       52       42       41       -       CO1       CO1       CO1       CO1       CO1       CO1       CO1       CO1       CO1	214766 214773	22 NORMAN ST, TURVEY PARK NSW 2650 23 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 49	-	•	CO1
214811       11       INVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214827       20 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214846       21 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214860       8 NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       48       -       -       CO1         214861       2X RUDARE ST, TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214867       ERN EARTH 1 KUDARE ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214887       IS NVERARY ST, TURVEY PARK NSW 2650       58       53       52       42       49       -       -       CO1         214888       IS NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       49       -       -       CO1         214891       12 NORMAN ST, MURVEY PARK NSW 2650       58       53       52	214777	10 INVERARY ST, TURVEY PARK NSW 2650 7/9 DOCKER ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-		CO1
214846       21 NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214806       22 KILDARE ST, TURVEY PARK NSW 2650       58       53       52       42       43       -       -       CO1         214807       22 KILDARE ST, TURVEY PARK NSW 2650       58       53       52       42       61       CO1       CO1       CO1, CO2, (RO,AO)*         214807       ERN EARTH 14 KIDARE ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214807       BN NDERARY ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214808       IB NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       46       -       -       CO1         214802       IB NORMAN ST, TURVEY PARK NSW 2650       58       53       52       42       44       -       -       CO1         214901       25 MACLEAY ST, TURVEY PARK NSW 2650       58       53       52       42       44       -       -       CO1         214902       20 ROMA ST, WAGGA WAGGA NSW 2650       58       53       52 </td <td>214811</td> <td>11 INVERARY ST, TURVEY PARK NSW 2650</td> <td>58</td> <td>53</td> <td>52</td> <td>42</td> <td>46</td> <td>-</td> <td></td> <td>CO1</td>	214811	11 INVERARY ST, TURVEY PARK NSW 2650	58	53	52	42	46	-		CO1
214881         22 KILDARE ST, TURVEY PARK NSW 2650         58         53         52         42         61         CO1         CO1 <t< td=""><td>214846</td><td>21 NORMAN ST, TURVEY PARK NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>46</td><td>-</td><td>-</td><td>CO1</td></t<>	214846	21 NORMAN ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	CO1
214883         9.INVERARY ST. TURVEY PARK NSW 2650         58         53         52         42         46         -         -         CO1           214883         IB NORMAN ST. TURVEY PARK NSW 2650         58         53         52         42         46         -         -         CO1           214883         IB NORMAN ST. TURVEY PARK NSW 2650         58         53         52         42         49         -         -         CO1           214901         25 MACLEAY ST. TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1           214901         25 DOCKER ST. UNAGGA NMAGA NSW 2650         58         53         52         42         43         -         -         CO1           214902         20 KIDARY ST., TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1           214921         20 KIDARE ST. TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1           214920         20 KIDARE ST. TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1	214861	22 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	61		CO1	
214892         19 NORMAN ST, TURVEY PARK NSW 2650         58         53         52         42         51         -         -         CO1           214901         25 MACLEAY ST, TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1           214901         25 DOCKER ST, UNAGGA WAGGA NSW 2650         58         53         52         42         44         -         -         CO1           214905         25 DOCKER ST, UNAGGA WAGGA NSW 2650         58         53         52         42         43         -         -         CO1           214912         20 KILDARE ST, TURVEY PARK NSW 2650         58         53         52         42         63         CO1         CO1         CO1, CO2, (RO,AD)*           214920         20 KILDARE ST, TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1           214921         1 KINDRA LANE, TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1           214921         1 KINDRA LANE, TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1 </td <td>214883 214888</td> <td>9 INVERARY ST, TURVEY PARK NSW 2650 18 NORMAN ST, TURVEY PARK NSW 2650</td> <td>58 58</td> <td>53 53</td> <td>52</td> <td>42</td> <td>46 49</td> <td>-</td> <td>-</td> <td>CO1</td>	214883 214888	9 INVERARY ST, TURVEY PARK NSW 2650 18 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52	42	46 49	-	-	CO1
214906         20 ROMA ST, WAGGA WAGGA NSW 2650         58         53         52         42         44         -         -         CO1           214919         20 RUMA ST, WAGGA WAGGA NSW 2650         58         53         52         42         63         CO1         CO1         CO1, CO, AO)*           214929         20 RULDARE ST, TURVEY PARK NSW 2650         58         53         52         42         63         CO1         CO1         CO1, CO, AO)*           214920         30 COLLINS ST, TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1           214921         1 KNDRA LANE, TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1           214921         1 KNDRA LANE, TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1           214923         16 NORMAN ST, TURVEY PARK NSW 2650         58         53         52         42         45         -         -         CO1           214943         16 NORMAN ST, TURVEY PARK NSW 2650         58         53         52         42         53         -         CO1         CO1	214892 214901	19 NORMAN ST, TURVEY PARK NSW 2650 25 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	•	CO1
214920         30         COLLINS ST, TURVEY PARK NSW 2650         58         53         52         42         43         -         -         CO1           214920         1         KNDRA LANE, TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1           214920         1         KNDRAK ST, TURVEY PARK NSW 2650         58         53         52         42         44         -         -         CO1           214928         IS NUPERAY ST, TURVEY PARK NSW 2650         58         53         52         42         45         -         -         CO1           214928         IS NUPERAY ST, TURVEY PARK NSW 2650         58         53         52         42         53         -         CO1         CO1           214952         ERN EARTH 1 KILDARE ST, TURVEY PARK NSW 265         55         55         -         65         CO1         -         -         -         CO1           214952         IS ROMA ST, WAGGA WAGGA NANG SANW 2650         58         53         52         42         43         -         -         CO1	214906	20 ROMA ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	- - CO1		CO1
214928         6 INVERARY ST, TURVEY PARK NSW 2650         58         53         52         42         45         -         CO1           214943         16 NORMAN ST, TURVEY PARK NSW 2650         58         53         52         42         53         -         CO1         CO1           214952         ERN EARTH 1 KUBARE ST, TURVEY PARK NSW 265         55         55         -         65         CO1         -         -           214952         IS ROMA ST, WAGGA NSW 2650         58         53         52         42         43         -         -         CO1	214920	30 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	CO1
214952         ERN EARTH 1 KILDARE ST, TURVEY PARK NSW 265         55         55         -         65         CO1         -	214928	6 INVERARY ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	- CO1	CO1
	214952 214955	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265 15 ROMA ST, WAGGA WAGGA NSW 2650	55	55 53	-	- 42	65 43	CO1	• • • • • • • • • • • • • • • • • • •	- CO1
214963 / TIVEWART 51, LUKEY FAKEN NSW 2650 56 53 52 42 45	214958	7 INVERARY ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	•	CO1

W.014 Ut	ility Work - essential energy work								
		NML	NML	NML	NML	Predicted Level	Additional Mitigation	Additional Mitigation Evening	Additional Mitigation Night
SLR ID 214969	ADDRESS 18 ROMA ST, WAGGA WAGGA NSW 2650	Daytime 58	Daytime OOH	Evening 52	Night-time 42	LAeq(15min)	Daytime OOH	*(>2 consecutive rest periods)	*(>2 consecutive sleep periods)
214972 214981	18 KILDARE ST, TURVEY PARK NSW 2650 23 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	63 43	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
214983 214987 214990	21 KILDARE ST, TURVEY PARK NSW 2650 1/1 BIMBEEN ST, TURVEY PARK NSW 2650 2 MACLEAY ST, TURVEY PARK NSW 2650	55 58 58	55 53 53	- 52 52	- 42 42	65 50 43	CO1 - -	-	- CO1 CO1
214990 215002 215007	4 INVERARY ST, TURVEY PARK NSW 2650 7 DOCKER ST, WAGGA WAGGA NSW 2650	58	53 53	52 52 52	42 42 42	43 45 43	-	-	C01 C01
215012 215017	14 NORMAN ST, TURVEY PARK NSW 2650 13 ROMA ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 45		-	CO1 CO1
215018 215021 215027	15 NORMAN ST, TURVEY PARK NSW 2650 1/9 DOCKER ST, WAGGA WAGGA NSW 2650 16 KILDARE ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	52 43 64	- - CO1	- - CO1	CO1 CO1 CO1, CO2, (RO,AO)*
215027 215028 215029	5 INVERARY ST, TURVEY PARK NSW 2650 5 INVERARY ST, TURVEY PARK NSW 2650 16 ROMA ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 44	-	-	CO1 CO1 CO1
215041 215049	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265 4/76 BROOKONG AV, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	58 45	CO1 -	-	- CO1
215056 215059	3/74 BROOKONG AV, WAGGA WAGGA NSW 2650 2 INVERARY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 53	•	- CO1	C01 C01
215067 215069 215072	11 ROMA ST, WAGGA WAGGA NSW 2650 12 NORMAN ST, TURVEY PARK NSW 2650 82 RAILWAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 50 46	-	-	CO1 CO1 CO1
215075	13 NORMAN ST, TURVET PARK NSW 2650 13 NORMAN ST, TURVEY PARK NSW 2650 80 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53 53	52 52 52	42 42 42	48 50 43	-	-	C01 C01
215078 215084	84 RAILWAY ST, TURVEY PARK NSW 2650 21 KILDARE ST, TURVEY PARK NSW 2650	58 55	53 55	52	42	44	- CO1	-	C01 -
	14 KILDARE ST, TURVEY PARK NSW 2650 3 INVERARY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	65 45	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
	86 RAILWAY ST, TURVEY PARK NSW 2650 10 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	44 52	-	-	C01 C01
215124 215126 215132	9 ROMA ST, WAGGA WAGGA NSW 2650 88 RAILWAY ST, TURVEY PARK NSW 2650 90 RAILWAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 45 45	- -	-	CO1 CO1 CO1
	11 NORMAN ST, TURVEY PARK NSW 2650 10 ROMA ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 52 43	-	-	CO1 CO1
	12 KILDARE ST, TURVEY PARK NSW 2650 94 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	67 45	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
	92 RAILWAY ST, TURVEY PARK NSW 2650 96 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 47	-	-	C01 C01
215174 215180 215181	1 INVERARY ST, TURVEY PARK NSW 2650 3 ERIN ST, TURVEY PARK NSW 2650 2/74 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	54 45 44	CO1 - -	- -	CO1 CO1 CO1
	8 NORMAN ST, TURVEY PARK NSW 2650 9 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 52	-	-	C01 C01
215199 215204	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265 1 INVERARY ST, TURVEY PARK NSW 2650	55 58	55 53	- 52	- 42	70 54	CO1 CO1	- CO1	- CO1
215210 215216	3 CASSIDY PDE, TURVEY PARK NSW 2650 9 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	56 44	CO1 -	CO1 -	CO1 CO1
215217 215219 215231	10 KILDARE ST, TURVEY PARK NSW 2650 11 ERIN ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	69 45 51	CO1, CO2 -		CO1, CO2, RO, (AO, AltA)* CO1 CO1
215231 215235 215240	68 BROOKONG AV, WAGGA WAGGA NSW 2650 1 CASSIDY PDE, TURVEY PARK NSW 2650 11/9 DOCKER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	50 43	- -	-	C01 C01
215240 215243 215265	72 BROOKONG AV, WAGGA WAGGA NSW 2650 6 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 58	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215267 215269	70 BROOKONG AV, WAGGA WAGGA NSW 2650 7 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 53	-	CO1 CO1	CO1 CO1
215271 215276	6 ROMA ST, WAGGA WAGGA NSW 2650 66 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44	- -	-	CO1 CO1
215283 215292 215297	8 KILDARE ST, TURVEY PARK NSW 2650 1/74 BROOKONG AV, WAGGA WAGGA NSW 2650 64 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	72 50 53	CO1, CO2 - -	<u>CO1, CO2</u> - CO1	CO1, CO2, RO, (AO, AltA)* CO1 CO1
215302 215308	4 NORMAN ST, TURVEY PARK NSW 2650 3 ROMA ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	59 46	CO1 -	C01 -	CO1, CO2, (RO,AO)* CO1
215309 215310	5 NORMAN ST, TURVEY PARK NSW 2650 62 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 53	-	- CO1	CO1 CO1
215312 215314 215320	4 ROMA ST, WAGGA WAGGA NSW 2650 76 BROOKONG AV, WAGGA WAGGA NSW 2650 60 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 49 55	- - CO1	- - CO1	CO1 CO1 CO1
215320 215326 215340	6 KILDARE ST, TURVEY PARK NSW 2650 56 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53 53	52 52 52	42 42 42	55 76 47	CO1, CO2	C01, C02 -	CO1, CO2, RO, (AO, AltA)* CO1
215345 215351	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265 2 ROMA ST, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	74 43	CO1, CO2 -	-	- CO1
215356	1 ROMA ST, WAGGA WAGGA NSW 2650 3 NORMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 62	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
	2 NORMAN ST, TURVEY PARK NSW 2650 4 KILDARE ST, TURVEY PARK NSW 2650 1 NORMAN ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42	59 81	CO1 CO1, CO2	CO1 CO1, CO2, (RO)*	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)* CO1, CO2, (RO,AO)*
215411	54 BROOKONG AV, WAGGA WAGGA NSW 2650 2 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53 53	52 52 52	42 42 42	64 55 89	CO1 CO1 CO1, CO2	CO1 CO1 CO1, CO2, (RO)*	CO1 CO1 CO1, CO2, RO, (AO, AltA)*
215423	52 BROOKONG AV, WAGGA WAGGA NSW 2650 50 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	55 55	CO1 CO1	CO1 CO1	CO1 CO1
215460 215466	48 BROOKONG AV, WAGGA WAGGA NSW 2650 57 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	56 46	CO1 -	CO1 -	CO1 CO1
215474	53 BROOKONG AV, WAGGA WAGGA NSW 2650 18-20 DOCKER ST, WAGGA WAGGA NSW 2650	58 56	53 51	52 50	42 43	52 44	-	-	C01 C01
215490	51 BROOKONG AV, WAGGA WAGGA NSW 2650 59 BROOKONG AV, WAGGA WAGGA NSW 2650 46 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	52 46 57	- - CO1	- - CO1	CO1 CO1 CO1
215498 215499	49 BROOKONG AV, WAGGA WAGGA NSW 2650 44 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	52 58	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215504 215507	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265 47 BROOKONG AV, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	69 52	CO1 -	-	- CO1
215532	45 BROOKONG AV, WAGGA WAGGA NSW 2650 73 BROOKONG AV, WAGGA WAGGA NSW 2650 43 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	53 44	-	CO1 - 	CO1 CO1 CO1 CO3 (BO AO)*
215540	42 BROOKONG AV, WAGGA WAGGA NSW 2650 40 BROOKONG AV, WAGGA WAGGA NSW 2650 43 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	60 59 53	CO1 CO1 -	CO1 CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)* CO1
	45 BROOKONG AV, WAGGA WAGGA NSW 2650 75 BROOKONG AV, WAGGA WAGGA NSW 2650 14 STATION PL, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	46 45	-	-	C01 C01
215563 215566	38 BROOKONG AV, WAGGA WAGGA NSW 2650 41 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	62 54	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1
215578	36 BROOKONG AV, WAGGA WAGGA NSW 2650 2 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	60 54	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1 CO1
215615 215618 215636	34 BROOKONG AV, WAGGA WAGGA NSW 2650 32 BROOKONG AV, WAGGA WAGGA NSW 2650 20 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 70	53 53 70	52 52	42 42	62 63 77	CO1 CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215652	4 MURRAY ST, WAGGA WAGGA NSW 2650 30 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	- 52 52	42	49 67	- CO1	- - CO1	- CO1 CO1, CO2, (RO,AO)*
215672 215695	28 BROOKONG AV, WAGGA WAGGA NSW 2650 37 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	67 57	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1
215706 215708	35 BROOKONG AV, WAGGA WAGGA NSW 2650 2 DONNELLY AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	58 51	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
215712 215721 215724	20 BROOKONG AV, WAGGA WAGGA NSW 2650 24 BROOKONG AV, WAGGA WAGGA NSW 2650 4 DONNELLY AV, WAGGA WAGGA NSW 2650	70 58	70 53	- 52	- 42 42	79 72	CO1 CO1, CO2	- CO1, CO2	- CO1, CO2, RO, (AO, AltA)*
215725	4 DONNELLY AV, WAGGA WAGGA NSW 2650 6 DONNELLY AV, WAGGA WAGGA NSW 2650 33 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	50 55 58	- CO1 CO1	- CO1 CO1	CO1 CO1 CO1, CO2, (RO,AO)*
	8 DONNELLY AV, WAGGA WAGGA NSW 2650 12 DONNELLY AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	58 50 60	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215749 215750	22 BROOKONG AV, WAGGA WAGGA NSW 2650 10 DONNELLY AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	93 54	CO1, CO2 CO1	CO1, CO2, (RO)* CO1	CO1, CO2, RO, (AO, AltA)* CO1
215751 215752	31 BROOKONG AV, WAGGA WAGGA NSW 2650 29 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	59 60	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215759 215762	6 MURRAY ST, WAGGA WAGGA NSW 2650 27 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 61	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*

W.014 Ut	ility Work - essential energy work								
		NML	NML	NML	NML	Predicted Level	Additional Mitigation	Additional Mitigation	Additional Mitigation
SLR ID 215781	ADDRESS 25 BROOKONG AV, WAGGA WAGGA NSW 2650	Daytime 58	Daytime OOH	Evening 52	NML Night-time 42	LAeq(15min)	Daytime OOH	Evening *(>2 consecutive rest periods)	Night *(>2 consecutive sleep periods) CO1, CO2, (RO,AO)*
215791	1 YATHONG ST, WAGGA WAGGA NSW 2650 1 FLINDERS ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	46 43	-	-	CO1 CO1
215799 215800	2 LITTLE BEST ST, WAGGA WAGGA NSW 2650 8 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	52 48	•	-	C01 C01
215802 215804 215807	3 YATHONG ST, WAGGA WAGGA NSW 2650 5 YATHONG ST, WAGGA WAGGA NSW 2650 23 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 46 63	- - CO1	- - CO1	CO1 CO1 CO1, CO2, (RO,AO)*
215812 215814	9 MURRAY ST, WAGGA WAGGA NSW 2650 33 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 46	-	-	CO1 CO1
215820 215835 215836	21 BROOKONG AV, WAGGA WAGGA NSW 2650 1 FOX ST, WAGGA WAGGA NSW 2650 19 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	64 60 65	CO1 CO1 CO1	CO1 CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215830 215837 215843	7 YATHONG ST, WAGGA WAGGA NSW 2650 17 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	46 66	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215846 215849	4 LITTLE BEST ST, WAGGA WAGGA NSW 2650 18 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 98	- CO1, CO2	- CO1, CO2, (RO)*	CO1 CO1, CO2, RO, (AO, AltA)*
215853 215874 215888	10 MURRAY ST, WAGGA WAGGA NSW 2650 188 EDWARD ST, WAGGA WAGGA NSW 2650 15 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	51 72 68	- CO1, CO2 CO1	- CO1, CO2 CO1, CO2	CO1 CO1, CO2, RO, (AO, AltA)* CO1, CO2, RO, (AO, AltA)*
215892 215900	6 LITTLE BEST ST, WAGGA WAGGA NSW 2650 16 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 88	- CO1, CO2	- CO1, CO2, (RO)*	CO1 CO1, CO2, RO, (AO, AltA)*
215902 215908 215919	13 BROOKONG AV, WAGGA WAGGA NSW 2650 3 FOX ST, WAGGA WAGGA NSW 2650 12 MURRAY ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	70 58 49	CO1, CO2 CO1	CO1, CO2 CO1	CO1, CO2, RO, (AO, AltA)* CO1, CO2, (RO,AO)* CO1
215923 215924	13 MURRAY ST, WAGGA WAGGA NSW 2000 13 MURRAY ST, WAGGA WAGGA NSW 2650 11 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	52 70	- - CO1, CO2	- - CO1, CO2	CO1 CO1, CO2, RO, (AO, AltA)*
215942	8 LITTLE BEST ST, WAGGA WAGGA NSW 2650 9 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 72	- CO1, CO2	- CO1, CO2	CO1 CO1, CO2, RO, (AO, AltA)*
215954 215956 215984	14 BROOKONG AV, WAGGA WAGGA NSW 2650 188 EDWARD ST, WAGGA WAGGA NSW 2650 5 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	77 61 57	CO1, CO2 CO1 CO1	CO1, CO2 CO1 CO1	CO1, CO2, RO, (AO, AltA)* CO1, CO2, (RO,AO)* CO1
215985 215988	14 MURRAY ST, WAGGA WAGGA NSW 2650 15 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 49	-	-	CO1 CO1
216006 216007	7 BROOKONG AV, WAGGA WAGGA NSW 2650 10 SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	74 52	CO1, CO2 -	CO1, CO2 -	CO1, CO2, RO, (AO, AltA)* CO1
216023 216024 216026	2 YABTREE ST, WAGGA WAGGA NSW 2650 12 BROOKONG AV, WAGGA WAGGA NSW 2650 188 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 70 64	- CO1, CO2 CO1	- CO1, CO2 CO1	CO1 CO1, CO2, RO, (AO, AltA)* CO1, CO2, (RO,AO)*
216039 216042	4 YABTREE ST, WAGGA WAGGA NSW 2650 16 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 50	-	-	CO1 CO1
216053 216054 216056	6 SALMON ST, WAGGA WAGGA NSW 2650 8 SALMON ST, WAGGA WAGGA NSW 2650 6 YABTREE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53	52 52 52	42 42 42	54 53 45	CO1 -	CO1 CO1	CO1 CO1 CO1
216056 216059 216060	17 MURRAY ST, WAGGA WAGGA NSW 2650 17 MURRAY ST, WAGGA WAGGA NSW 2650 156 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53 53	52 52 52	42 42 42	45 45 45	-	• •	C01 C01
216069 216073	8 YABTREE ST, WAGGA WAGGA NSW 2650 3/12 SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 56	- CO1	- CO1	CO1 CO1
216085 216088 216094	158 EDWARD ST, WAGGA WAGGA NSW 2650 4 SALMON ST, WAGGA WAGGA NSW 2650 160 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	52 55 47	- CO1	- CO1 -	CO1 CO1 CO1
216099 216103	162 EDWARD ST, WAGGA WAGGA NSW 2650 164 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 46	-	-	CO1 CO1
216107 216115	168 EDWARD ST, WAGGA WAGGA NSW 2650 2A SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 55	- CO1	- CO1	C01 C01
216122	166 EDWARD ST, WAGGA WAGGA NSW 2650 2 SALMON ST, WAGGA WAGGA NSW 2650 8 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	47 60 69	- CO1 CO1, CO2	- CO1 CO1, CO2	CO1 CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
216128 216134	170 EDWARD ST, WAGGA WAGGA NSW 2650 19 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 50	-	-	CO1 CO1
216146 216158 216165	18 MURRAY ST, WAGGA WAGGA NSW 2650 188 EDWARD ST, WAGGA WAGGA NSW 2650	58 55 58	53 55	52	42 - 42	47 59	- CO1	- CO1	CO1 - CO1
216165 216181 216186	8 SALMON ST, WAGGA WAGGA NSW 2650 2 PETER ST, WAGGA WAGGA NSW 2650 127 EDWARD ST, WAGGA WAGGA NSW 2650	58 60	53 53 60	52 52 60	42 42 45	50 47 46	-	• •	C01 C01
216196 216200	1 YABTREE ST, WAGGA WAGGA NSW 2650 21 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 52	-	-	CO1 CO1
216204 216213 216217	20 MURRAY ST, WAGGA WAGGA NSW 2650 3 YABTREE ST, WAGGA WAGGA NSW 2650 5 YABTREE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 47 47	- -	-	CO1 CO1 CO1
216224 216226	7 YABTREE ST, WAGGA WAGGA NSW 2650 4 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 46	-	-	CO1 CO1
216256	131A EDWARD ST, WAGGA WAGGA NSW 2650 196 EDWARD ST, WAGGA WAGGA NSW 2650 22 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 61	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
216272	198 EDWARD ST, WAGGA WAGGA NSW 2650 133 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 65 46	- CO1 -	- CO1 -	CO1 CO1, CO2, (RO,AO)* CO1
216292 216294	202 EDWARD ST, WAGGA WAGGA NSW 2650 206 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	66 66	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
216306	153 EDWARD ST, WAGGA WAGGA NSW 2650 23 MURRAY ST, WAGGA WAGGA NSW 2650 204 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 46 63	- - CO1	- - CO1	CO1 CO1 CO1, CO2, (RO,AO)*
216323	157 EDWARD ST, WAGGA WAGGA NSW 2650 210 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	44 53	-	- CO1	C01 C01
216333	208 EDWARD ST, WAGGA WAGGA NSW 2650 161 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	61 45	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
216346	214 EDWARD ST, WAGGA WAGGA NSW 2650 131A EDWARD ST, WAGGA WAGGA NSW 2650 212 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	60 43 54	CO1 - CO1	CO1 - CO1	CO1, CO2, (RO,AO)* CO1 CO1
216360 216370	163 EDWARD ST, WAGGA WAGGA NSW 2650 218 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 48	•	-	CO1 CO1
216390	216 EDWARD ST, WAGGA WAGGA NSW 2650 220 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	47 49	-	-	CO1 CO1
216391 216398 216400	1/173 EDWARD ST, WAGGA WAGGA NSW 2650 224 EDWARD ST, WAGGA WAGGA NSW 2650 222 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	52 45 50	-	- - -	CO1 CO1 CO1
216401 216404	WOMBOY 5/165 EDWARD ST, WAGGA WAGGA NSW 8 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 44	-	-	CO1 CO1
	226 EDWARD ST, WAGGA WAGGA NSW 2650 228 EDWARD ST, WAGGA WAGGA NSW 2650 9 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 48 44	-	-	CO1 CO1 CO1
216434	177 EDWARD ST, WAGGA WAGGA NSW 2650 232 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 47	-	- - -	C01 C01
216448 216464	175 EDWARD ST, WAGGA WAGGA NSW 2650 179 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 52	-	-	CO1 CO1
216471 216472 216473	181 EDWARD ST, WAGGA WAGGA NSW 2650 173 EDWARD ST, WAGGA WAGGA NSW 2650 240 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	54 52 45	CO1 - -	- -	CO1 CO1 CO1
216474 216479	234 EDWARD ST, WAGGA WAGGA NSW 2650 238 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 44	-	-	CO1 CO1
216480 216481	189 EDWARD ST, WAGGA WAGGA NSW 2650 236 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	52 46	-	-	C01 C01
216486	12 BEST ST, WAGGA WAGGA NSW 2650 191 EDWARD ST, WAGGA WAGGA NSW 2650 242 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 51 44	-	-	CO1 CO1 CO1
216520 216521	7 FOX ST, WAGGA WAGGA NSW 2650 2/4-6 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42	44 52 62	- - CO1	- - CO1	CO1 CO1 CO1, CO2, (RO,AO)*
216540 216547	14 BEST ST, WAGGA WAGGA NSW 2650 13 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 44	-		CO1 CO1
216561	9 FOX ST, WAGGA WAGGA NSW 2650 20 PETER ST, WAGGA WAGGA NSW 2650 10 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	49 44 47	-	-	CO1 CO1 CO1
216589 216605	8 THORNE ST, WAGGA WAGGA NSW 2650 2/11 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 43	-	-	CO1 CO1
216623 216624	9 THORNE ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 46	-	-	CO1 CO1

W.014 Ut	ility Work - essential energy work								
11.014 01	inty Hork essential energy work							Additional Mitigation	Additional Mitigation
SLR ID	ADDRESS	NML Daytime	NML Daytime OOH	NML Evening	NML Night-time	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Evening *(>2 consecutive rest periods)	Night *(>2 consecutive sleep periods)
216642	215 EDWARD ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 52	-	-	CO1 CO1
216655	10 THORNE ST, WAGGA WAGGA NSW 2650 215-217 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	52 48	-	-	CO1 CO1
	215A EDWARD ST, WAGGA WAGGA NSW 2650 2/11 FOX ST, WAGGA WAGGA NSW 2650 11 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 47 49	-	-	CO1 CO1 CO1
216680 216683	219 EDWARD ST, WAGGA WAGGA NSW 2650 14 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 45	-	-	CO1 CO1
216687 216694	223 EDWARD ST, WAGGA WAGGA NSW 2650 12 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	46 51	-		CO1 CO1
216697 216705	221 EDWARD ST, WAGGA WAGGA NSW 2650 209A EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 46	-	-	CO1 CO1
216710 216721	225 EDWARD ST, WAGGA WAGGA NSW 2650 13 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 48	-	•	CO1 CO1
216729 216732 216743	26 PETER ST, WAGGA WAGGA NSW 2650 13 THORNE ST, WAGGA WAGGA NSW 2650 14 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 48 52	-	-	CO1 CO1 CO1
	8 OATES AV, WAGGA WAGGA NSW 2650 9 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	52 52 49	-	-	C01 C01
216760 216769	237 EDWARD ST, WAGGA WAGGA NSW 2650 239 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44	-		C01 C01
216774 216791	15 FOX ST, WAGGA WAGGA NSW 2650 16 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 51	-	-	CO1 CO1
216799	15 THORNE ST, WAGGA WAGGA NSW 2650 20 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 45	-	•	CO1 CO1
	245 EDWARD ST, WAGGA WAGGA NSW 2650 33 MURRAY ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 43 47	-	-	CO1 CO1 CO1
216823	11 OATES AV, WAGGA WAGGA NSW 2650 10 OATES AV, WAGGA WAGGA NSW 2650 4/241-243 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	47 52 47	-	•	CO1 CO1
216837 216839	255 EDWARD ST, WAGGA WAGGA NSW 2650 17 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	46 46	-	-	C01 C01
216847 216857	255 EDWARD ST, WAGGA WAGGA NSW 2650 18 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 48	-	• •	CO1 CO1
216863 216867	17 THORNE ST, WAGGA WAGGA NSW 2650 13 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 50	-	•	CO1 CO1
216870 216874	35 MURRAY ST, WAGGA WAGGA NSW 2650 26 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	46 45	-	•	CO1 CO1
216887 216892 216895	12 OATES AV, WAGGA WAGGA NSW 2650 21 FOX ST, WAGGA WAGGA NSW 2650 4/241-243 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	51 48 48	-	-	CO1 CO1 CO1
216899	4/241-243 EDWARD ST, WAGGA WAGGA NSW 2050 259 EDWARD ST, WAGGA WAGGA NSW 2050 6/263 EDWARD ST, WAGGA WAGGA NSW 2050	58 58	53 53 53	52 52 52	42 42 42	48 45 46	- -	•	CO1 CO1
216924 216932	20 THORNE ST, WAGGA WAGGA NSW 2650 19 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 49	-	-	CO1 CO1
216943	15 OATES AV, WAGGA WAGGA NSW 2650 7/36 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 45	-		CO1 CO1
	16 OATES AV, WAGGA WAGGA NSW 2650 28 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 45	-	-	CO1 CO1
216961 216965 216966	277 EDWARD ST, WAGGA WAGGA NSW 2650 279 EDWARD ST, WAGGA WAGGA NSW 2650 23 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 44 47	-	-	CO1 CO1 CO1
216990 216991 216999	22 THORNE ST, WAGGA WAGGA NSW 2050 22 THORNE ST, WAGGA WAGGA NSW 2050 17 OATES AV, WAGGA WAGGA NSW 2050	58 58	53 53	52 52	42 42 42	47 45 44	-	-	C01 C01
217004 217009	21 THORNE ST, WAGGA WAGGA NSW 2650 18 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 44	-		CO1 CO1
217018 217019	38 MURRAY ST, WAGGA WAGGA NSW 2650 30 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 45	-	-	CO1 CO1
217027 217032	25 FOX ST, WAGGA WAGGA NSW 2650 39 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 46	-	-	CO1 CO1
217036 217038 217042	6/263 EDWARD ST, WAGGA WAGGA NSW 2650 32 BEST ST, WAGGA WAGGA NSW 2650 20 CATES AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 45 45	-	-	CO1 CO1 CO1
217045	20 OATES AV, WAGGA WAGGA NSW 2650 19 OATES AV, WAGGA WAGGA NSW 2650 24 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	45 48 46	-	-	CO1 CO1
217054	295 EDWARD ST, WAGGA WAGGA NSW 2650 27 FOX ST, WAGGA WAGGA NSW 2650	56 58	51 53	50 52	43 42	45 45	-	-	CO1 CO1
217068	23 THORNE ST, WAGGA WAGGA NSW 2650 32 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 45	-		CO1 CO1
	24 THORNE ST, WAGGA WAGGA NSW 2650 40 MURRAY ST, WAGGA WAGGA NSW 2650	58 58 58	53 53	52 52 52	42 42 42	47 45 46	•	-	CO1 CO1
217094	27 FOX ST, WAGGA WAGGA NSW 2650 22 OATES AV, WAGGA WAGGA NSW 2650 21 OATES AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 45 50	- -	-	CO1 CO1 CO1
217101	34 BEST ST, WAGGA WAGGA NSW 2650 26 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 48	-		CO1 CO1
217129	25 THORNE ST, WAGGA WAGGA NSW 2650 34 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
217141	24 OATES AV, WAGGA WAGGA NSW 2650 43 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 45	-	•	CO1 CO1
217144	29A FOX ST, WAGGA WAGGA NSW 2650 42 MURRAY ST, WAGGA WAGGA NSW 2650 28 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	46 45	-	-	CO1 CO1
	28 THORNE ST, WAGGA WAGGA NSW 2650 6/263 EDWARD ST, WAGGA WAGGA NSW 2650 23 OATES AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 45 48	-	•	CO1 CO1 CO1
217180 217181	27 THORNE ST, WAGGA WAGGA NSW 2650 35 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	50 43	• •	• •	CO1 CO1
217183 217190	45 MURRAY ST, WAGGA WAGGA NSW 2650 26 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 45	-	•	CO1 CO1
217204	44 MURRAY ST, WAGGA WAGGA NSW 2650 31 FOX ST, WAGGA WAGGA NSW 2650 47 MURRAY ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 46 46	-	-	CO1 CO1 CO1
217223	47 MURRAY ST, WAGGA WAGGA NSW 2650 38A FOX ST, WAGGA WAGGA NSW 2650 30 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 43 44	-	-	C01 C01 C01
217230	25 OATES AV, WAGGA WAGGA NSW 2650 29 THORNE ST, WAGGA WAGGA NSW 2650 29 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	44 45 49	- -	•	C01 C01
217236 217260	46 MURRAY ST, WAGGA WAGGA NSW 2650 30 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 44	-	-	CO1 CO1
217279	49 MURRAY ST, WAGGA WAGGA NSW 2650 32 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 50	-	-	CO1 CO1
217289	33 FOX ST, WAGGA WAGGA NSW 2650 48 MURRAY ST, WAGGA WAGGA NSW 2650 27 OATES AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 47 45	- -	-	CO1 CO1 CO1
217299	27 OATES AV, WAGGA WAGGA NSW 2650 31 THORNE ST, WAGGA WAGGA NSW 2650 42 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 49 45	-	•	C01 C01
	51 MURRAY ST, WAGGA WAGGA NSW 2650 34 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 46	-	-	CO1 CO1
	29 OATES AV, WAGGA WAGGA NSW 2650 32 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	47 43	-		CO1 CO1
	50 MURRAY ST, WAGGA WAGGA NSW 2650 44 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44 43	-	-	CO1 CO1
217366	4 DARLOW ST, WAGGA WAGGA NSW 2650 53 MURRAY ST, WAGGA WAGGA NSW 2650 36 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 48 46	- -	-	CO1 CO1 CO1
217382	42 FOX ST, WAGGA WAGGA NSW 2650 31 OATES AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 44 43	-	-	C01 C01
217392 217399	2/39 FOX ST, WAGGA WAGGA NSW 2650 37 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 50	- -	-	CO1 CO1
217424 217431	38 THORNE ST, WAGGA WAGGA NSW 2650 3/36 OATES AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 43	-	-	CO1 CO1
217452	33 OATES AV, WAGGA WAGGA NSW 2650 2/39-41 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	48 49	-	-	CO1 CO1
217467	40 THORNE ST, WAGGA WAGGA NSW 2650 35 OATES AV, WAGGA WAGGA NSW 2650 41 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 50 43	- -	-	CO1 CO1 CO1
21/4/0	TT OA OT, WAGGA WAGGA NOW 2000	50	33	UZ.	42	40			

W.014 U	tility Work - essential energy work								
		NML	NML	NML	NML	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Additional Mitigation Evening	Additional Mitigation Night
SLR ID 217474	ADDRESS 46 FOX ST, WAGGA WAGGA NSW 2650	Daytime 58	Daytime OOH 53	Evening 52	Night-time 42	43	- Daytime OOH	*(>2 consecutive rest periods)	*(>2 consecutive sleep periods)
217503 217508	56 MURRAY ST, WAGGA WAGGA NSW 2650 42 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 46	-	-	CO1 CO1
217510 217529	37 OATES AV, WAGGA WAGGA NSW 2650 45 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 43	-	-	CO1 CO1
217544 217547	39 OATES AV, WAGGA WAGGA NSW 2650 58 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 43	-	-	CO1 CO1
217563 217582	50 FOX ST, WAGGA WAGGA NSW 2650 142 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 49	-	-	C01 C01
217590 217595	60 MURRAY ST, WAGGA WAGGA NSW 2650 148 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 48	-	- -	C01 C01
217606 217608	152 MORGAN ST, WAGGA WAGGA NSW 2650 144 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 47	-	-	CO1 CO1
217610 217615	146 MORGAN ST, WAGGA WAGGA NSW 2650 150 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 46	-	-	CO1 CO1
217650 217652	158 MORGAN ST, WAGGA WAGGA NSW 2650 156 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 43	-	-	CO1 CO1
217698 217718	62 MURRAY ST, WAGGA WAGGA NSW 2650 178 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
217727 217734	133 MORGAN ST, WAGGA WAGGA NSW 2650 141 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
217748 217752	64 MURRAY ST, WAGGA WAGGA NSW 2650 141 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 47	-	-	CO1 CO1
217759 217765	56 FOX ST, WAGGA WAGGA NSW 2650 52 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 45	-	-	CO1 CO1
217786	58 FOX ST, WAGGA WAGGA NSW 2650 3/53 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-		CO1 CO1
217803 217807	54 THORNE ST, WAGGA WAGGA NSW 2650 53 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44	-	-	CO1 CO1
217810	147 MORGAN ST, WAGGA WAGGA NSW 2650	58	53 53	52	42	46	-	-	CO1
217811 217812 217813	149 MORGAN ST, WAGGA WAGGA NSW 2650 151 MORGAN ST, WAGGA WAGGA NSW 2650 50 FOX ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 45 44	-	-	CO1 CO1 CO1
217813 217825 217828	60 FOX ST, WAGGA WAGGA NSW 2650 153 MORGAN ST, WAGGA WAGGA NSW 2650 159 MORGAN ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 43 45	-	-	CO1 CO1 CO1
217839	157 MORGAN ST, WAGGA WAGGA NSW 2650	58	53	52	42	47	-	-	CO1
217846 217851	167 MORGAN ST, WAGGA WAGGA NSW 2650 169 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
217852 217861	165 MORGAN ST, WAGGA WAGGA NSW 2650 171 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 43	-	-	CO1 CO1
217864 217866	57 FOX ST, WAGGA WAGGA NSW 2650 58 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 46	-	*	CO1 CO1
217877 217883	66 MURRAY ST, WAGGA WAGGA NSW 2650 175 MORGAN ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 43	-	-	CO1 CO1
217908 217918	59 THORNE ST, WAGGA WAGGA NSW 2650 68 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 44	-	-	CO1 CO1
217947 217969	3/63 THORNE ST, WAGGA WAGGA NSW 2650 72 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 43	-	•	C01 C01
217997 218025	3/67 THORNE ST, WAGGA WAGGA NSW 2650 WYNYARD COURT 40/160 FORSYTH ST, WAGGA WA	58 58	53 53	52 52	42 42	45 43	-	-	C01 C01
218026 218049	77 MURRAY ST, WAGGA WAGGA NSW 2650 69 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 45	-	-	CO1 CO1
218064 218091	WYNYARD COURT 33/160 FORSYTH ST, WAGGA WA 69A THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 45	-	-	CO1 CO1
218094 218114	80 FOX ST, WAGGA WAGGA NSW 2650 WYNYARD COURT 32/160 FORSYTH ST, WAGGA WA	58 58	53 53	52 52	42 42	43 45	-	-	CO1 CO1
218120 218125	71 THORNE ST, WAGGA WAGGA NSW 2650 WYNYARD COURT 29/160 FORSYTH ST, WAGGA WA	58 58	53 53	52 52	42 42	45 44	-	-	CO1 CO1
218147 218148	74 THORNE ST, WAGGA WAGGA NSW 2650 WYNYARD COURT 7/160 FORSYTH ST, WAGGA WAG	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
218171 218176	76 THORNE ST, WAGGA WAGGA NSW 2650 WYNYARD COURT 25/160 FORSYTH ST, WAGGA WA	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
218187 218197	WYNYARD COURT 4/160 FORSYTH ST, WAGGA WAG 132 FORSYTH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 45	-	-	CO1 CO1
218204	138 FORSYTH ST, WAGGA WAGGA NSW 2650 150 FORSYTH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44	-	-	CO1 CO1
218242 218274	154 FORSYTH ST, WAGGA WAGGA NSW 2650 162A FORSYTH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 43	-	-	CO1 CO1
218363 218401	1 MORUNDAH ST, WAGGA WAGGA NSW 2650 157 FORSYTH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
218438	90 THORNE ST, WAGGA WAGGA NSW 2650 9 MORUNDAH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	45	-	-	CO1 CO1
218514	96 THORNE ST, WAGGA WAGGA NSW 2650 15 MORUNDAH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
	16 MORUNDAH ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	43 44	-	-	C01 C01
	95 COLEMAN ST, TURVEY PARK NSW 2650 93 COLEMAN ST, TURVEY PARK NSW 2650 91 COLEMAN ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44	-	-	C01 C01 C01
1000456 1000457 1108363	103 COLEMAN ST, TURVEY PARK NSW 2650 103 COLEMAN ST, TURVEY PARK NSW 2650 244-248 EDWARD ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 46 50	-	-	C01 C01
	10 SALMON ST, WAGGA WAGGA NSW 2650	58 58 58	53	52 52 52	42 42 42	50 48 44	-	-	C01 C01 C01
1108649	55A MURRAY ST, WAGGA WAGGA NSW 2650 24-26 BROOKONG AV, WAGGA WAGGA NSW 2650	58	53 53	52 52 52	42	73	- CO1, CO2	- CO1, CO2	CO1 CO1, CO2, RO, (AO, AltA)* CO1
1108709 1108857 1108869		58 58 55	53 53	52	42	46 44 57	- - CO1	-	C01 C01
1108960	58 BEST ST, WAGGA WAGGA NSW 2650	58	55 53	52	42	44	- - CO1	-	- CO1
	1 KILDARE ST, TURVEY PARK NSW 2650	55 55	55 55	- 55	-	67 66	CO1	-	-
	4/4-6 THORNE ST, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	42	58 63	CO1 CO1	- CO1	- CO1, CO2, (RO,AO)*
1111562	4/4-6 THORNE ST, WAGGA WAGGA NSW 2650 4-6 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	63 62	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
	BUILDING 1 UNIT 102 1 FLINDERS ST, WAGGA WAGO	58 58	53 53	52 52	42 42	54 43	CO1 -	CO1 -	CO1 CO1
1111748	54 BEST ST, WAGGA WAGGA NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 63	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
1111750	1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	64 58	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
1111752		58 58	53 53	52 52	42 42	52 48	-	-	CO1 CO1
1111754	1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 44	-	-	CO1 CO1
1111755	1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	62 54	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1
	1 KILDARE ST, TURVEY PARK NSW 2650	58 55	53 55	52	42	54 63	CO1 CO1	CO1 -	CO1
	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265	55 55	55 55	-	-	60 58	CO1 CO1	-	•
1111762	21 KILDARE ST, TURVEY PARK NSW 2650 ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265	55 55	55 55	-	-	56 58	CO1 CO1	-	-
	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265	55	55	-	-	61	CO1	-	•



Making Sustainability Happen



# **Appendix B Summary of Additional Receivers**

ID	Scenario										Number	of Receiv	ers						
		HNA <sup>1</sup>									With NM	/L excee	dance (dB	5) <sup>2</sup>					
				Approve									Out of	Hours					
				Daytime	•		Daytir	ne OOH			Eve	ening			Nigh	it-time		Sleep Disturbance	Sleep Awakening
			1-10	11-20	>20	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	>Screening Level (NCA10 – 53 dB) (NCA11 – 52 dB)	>65 dB
Residential	Receivers								1										
Edmondson St	treet Bridge																		
W.001	Site Establishment/Demobilisation	-	26	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	-	5	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Vegetation clearing	8	52	9	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.004	Utility Work (Gas) - investigation and excavation	18	60	30	11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.005	Utility Work (Gas) - underbores	21	70	20	17	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.006	Utility Work (Gas) - cutovers & make good	7	40	19	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.007	Utility Work (66kV) (day)	6	48	5	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.008	Utility Work (66kV) (night outage 1)	6	39	7	5	41	39	7	5	44	44	8	5	242	150	44	13	175	35
W.009	Utility Work (66kV) (night outage 2)	5	28	7	3	25	28	7	3	34	30	5	5	113	81	30	10	117	25
W.010	Temporary Construction Hoarding	-	48	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.011	School Fence Removal	-	11	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.012	Tree Relocation	-	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cassidy Footb	ridge			_					_										
W.013	Utility Work (Gas) protection works	-	33	6	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.014	Utility Work – Essential Energy Works	3	35	7	3	31	35	7	3	29	42	8	3	293	136	42	11	267	45
W.015	Vegetation clearing	4	45	10	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pearson Street	tBridge			_					_										
W.016	Utility Work (gas & water) - investigation and excavation	-	26	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.017	Utility Work (water) - underbores	-	19	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.018	Utility Work (gas & water) - cutovers & make good	-	21	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.019	Utility Work – Essential Energy Works	-	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.020	Vegetation clearing	-	25	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

# Table 1 Overview of NML Exceedances – Wagga Wagga Utility Work – Within Approved CIZ



ID	Scenario										Number	of Receiv	ers						
		HNA <sup>1</sup>									With N	ML excee	dance (dB	) <sup>2</sup>					
				Approve	d								Out of	Hours					
				Daytime			Daytir	ne OOH	1		Eve	ening	1		Nigh	t-time		Sleep Disturbance	Sleep Awakening
			1-10	11-20	>20	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	>Screening Level (NCA10 – 53 dB) (NCA11 – 52 dB)	>65 dB
Other Sensi	tive Receivers																	1	
Edmondson St	reet Bridge																		
W.001	Site Establishment/Demobilisation	n/a	7	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	n/a	1	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Vegetation clearing	n/a	3	5	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.004	Utility Work (Gas) - investigation and excavation	n/a	9	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.005	Utility Work (Gas) - underbores	n/a	12	8	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.006	Utility Work (Gas) - cutovers & make good	n/a	6	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.007	Utility Work (66kV) (day)	n/a	9	2	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.008	Utility Work (66kV) (night outage 1)	n/a	3	4	1	3	4	1	-	1	-	-	-	3	1	-	-	n/a	n/a
W.009	Utility Work (66kV) (night outage 2)	n/a	4	2	-	1	3	2	-	-	-	-	-	1	-	-	-	n/a	n/a
W.010	Temporary Construction Hoarding	n/a	3	4	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.011	School Fence Removal	n/a	4	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.012	Tree Relocation	n/a	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cassidy Footbr	ridge							1						1		1			
W.013	Utility Work (Gas) protection works	n/a	17	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.014	Utility Work – Essential Energy Works	n/a	11	-	-	7	4	-	-	1	-	-	-	1	-	-	-	n/a	n/a
W.015	Vegetation clearing	n/a	13	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pearson Street	Bridge																		
W.016	Utility Work (gas & water) - investigation and excavation	n/a	4	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.017	Utility Work (water) - underbores	n/a	2	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.018	Utility Work (gas & water) - cutovers & make good	n/a	2	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.019	Utility Work – Essential Energy Works	n/a	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.020	Vegetation clearing	n/a	3	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Note 1: Highly noise affected, based on ICNG definition (i.e. predicted LAeq(15minute) noise at residential receiver is greater than 75 dBA).

Note 2: Based on worst-case predicted noise levels



# Table 2 Overview of NML Exceedances – Wagga Wagga Utility Work – Proposed Additional Work Areas

ID	Scenario		Number of Receivers																
		HNA <sup>1</sup>	<sup>1</sup> With NML exceedance (dB) <sup>2</sup>																
				Approve		Out of Hours													
			Daytime			Daytime OOH			Evening			Night-time				Sleep Disturbance	Sleep Awakening		
			1-10	11-20	>20	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	>Screening Level (NCA10 – 53 dB) (NCA11 – 52 dB)	>65 dB
Residential R	eceivers																		
Edmondson Stre	eet Bridge																		
W.001	Site Establishment/Demobilisation	-	26	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	-	5	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Vegetation clearing	8	52	9	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.004	Utility Work (Gas) - investigation and excavation	18	60	30	11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.005	Utility Work (Gas) - underbores	21	70	20	17	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.006	Utility Work (Gas) - cutovers & make good	7	40	19	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.007	Utility Work (66kV) (day)	6	48	5	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.008	Utility Work (66kV) (night outage 1)	6	39	7	5	41	39	7	5	44	44	8	5	242	150	44	13	175	35
W.009	Utility Work (66kV) (night outage 2)	5	28	7	3	25	28	7	3	34	30	5	5	113	81	30	10	117	25
W.010	Temporary Construction Hoarding	-	48	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.011	School Fence Removal	-	11	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.012	Tree Relocation	-	2	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cassidy Footbrid	dge																		
W.013	Utility Work (Gas) protection works	-	33	6	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.014	Utility Work – Essential Energy Works	7	49	13	5	34	49	13	5	38	56	14	5	356	163	56	19	301	53
W.015	Vegetation clearing	9	67	18	7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pearson Street B	Bridge																		
W.016	Utility Work (gas & water) - investigation and excavation	-	27	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.017	Utility Work (water) - underbores	-	19	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.018	Utility Work (gas & water) - cutovers & make good	-	22	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.019	Utility Work – Essential Energy Works	-	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.020	Vegetation clearing	-	25	8	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



ID	Scenario										Number	of Receiv	ers						
		HNA <sup>1</sup>									With NM	ML excee	dance (dB	6) <sup>2</sup>					
				Approve	d					Out of Hours									
			Approved Daytime			Daytime OOH			Evening			Night-time				Sleep Disturbance	Sleep Awakening		
			1-10	11-20	>20	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	1-5	6-15	16-25	>25	>Screening Level (NCA10 – 53 dB) (NCA11 – 52 dB)	>65 dB
Other Sensi	tive Receivers																		
Edmondson St	treet Bridge																		
W.001	Site Establishment/Demobilisation	n/a	7	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	n/a	1	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Vegetation clearing	n/a	3	5	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.004	Utility Work (Gas) - investigation and excavation	n/a	9	7	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.005	Utility Work (Gas) - underbores	n/a	12	8	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.006	Utility Work (Gas) - cutovers & make good	n/a	6	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.007	Utility Work (66kV) (day)	n/a	9	2	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.008	Utility Work (66kV) (night outage 1)	n/a	3	4	1	3	4	1	-	1	-	-	-	3	1	-	-	n/a	n/a
W.009	Utility Work (66kV) (night outage 2)	n/a	4	2	-	1	3	2	-	-	-	-	-	1	-	-	-	n/a	n/a
W.010	Temporary Construction Hoarding	n/a	3	4	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.011	School Fence Removal	n/a	4	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.012	Tree Relocation	n/a	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cassidy Footb	ridge																		
W.013	Utility Work (Gas) protection works	n/a	17	3	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.014	Utility Work – Essential Energy Works	n/a	15	6	-	8	12	1	-	1	1	-	-	1	-	-	-	n/a	n/a
W.015	Vegetation clearing	n/a	15	8	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pearson Street	t Bridge																		
W.016	Utility Work (gas & water) - investigation and excavation	n/a	3	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.017	Utility Work (water) - underbores	n/a	2	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.018	Utility Work (gas & water) - cutovers & make good	n/a	2	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.019	Utility Work – Essential Energy Works	n/a	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.020	Vegetation clearing	n/a	3	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Note 1: Highly noise affected, based on ICNG definition (i.e. predicted LAeq(15minute) noise at residential receiver is greater than 75 dBA).

Note 2: Based on worst-case predicted noise levels





# **Appendix C AHIMS Search Results**

6-0052-210-EEC-00-RP-0004\_0

UNCONTROLLED WHEN PRINTED | CONFIDENTIAL



Your Ref/PO Number : Pearson/Cassidy CA Client Service ID : 996676

Date: 17 April 2025

**Constance** Georgiou

Level 7, 45 Clarence Street Sydney New South Wales 2000

Attention: Constance Georgiou

Email: constance.georgiou@bdinfrastructure.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.1303, 147.3373 - Lat, Long To : -35.1215, 147.3528, conducted by Constance Georgiou on 17 April 2025.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0 Aboriginal sites are recorded in or near the above location. 0 Aboriginal places have been declared in or near the above location. \*

### If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

### Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



Your Ref/PO Number : Pearson/Cassidy CA Client Service ID : 996677

Date: 17 April 2025

Constance Georgiou

Level 7, 45 Clarence Street Sydney New South Wales 2000

Attention: Constance Georgiou

Email: constance.georgiou@bdinfrastructure.com

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -35.1249, 147.3537 - Lat, Long To : -35.1161, 147.3691, conducted by Constance Georgiou on 17 April 2025.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

### If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

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- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



# Appendix D Wagga Wagga Utilities Non-Aboriginal Assessment

6-0052-210-EEC-00-RP-0004\_0



View of the Best St Gatekeepers cottage in 2004, part of the Wagga Wagga Railway Station and yard group (source: Rob Nesbitt 2019)

## INLAND RAIL: ALBURY TO ILABO (A2I) - NON-ABORIGINAL HERITAGE ASSESSMENT

## WAGGA WAGGA UTILITIES CIZ EXTENSION

WAGGA WAGGA LOCAL GOVERNMENT AREA NOVEMBER 2024



Report prepared by OzArk Environment & Heritage For the Australian Rail Track Corporation



## OzArk Environment & Heritage

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## **DOCUMENT CONTROLS**

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Document Description	Inland Rail: Albury to Parkes (A2P) Non-Aboriginal Heritage Assessment - Wagga Wagga Utilities CIZ extension							
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Enquiries should be addressed to OzArk Environment & Heritage.

### Acknowledgement

OzArk acknowledge the Traditional Custodians of the area on which this assessment took place and pay respect to their beliefs, cultural heritage, and continuing connection with the land. We also acknowledge and pay respect to the post-contact experiences of Aboriginal people with attachment to the area and to the Elders, past and present, as the next generation of role models and vessels for memories, traditions, culture and hopes of local Aboriginal people.

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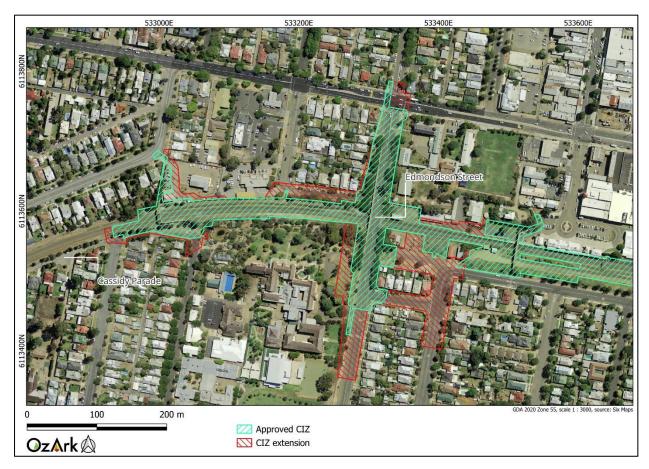
## **1** INTRODUCTION

OzArk Environment & Heritage (OzArk) has been engaged by Martinus Rail (MR, the client), on behalf of Australian Rail Track Corporation (ARTC, the proponent), to complete a non-Aboriginal Heritage Assessment following a revision to the scope of works at three locations that are part of the Albury to Illabo (A2I) Inland Rail (IR) Project (the Project). These locations, that shall henceforth be referred to collectively as the Construction Impact Zone (CIZ) extension, are within the Wagga Wagga Local Government Area and comprise of:

- Cassidy Parade, Wagga Wagga (Figure 1-1)
- Edmonson Street, Wagga Wagga (Figure 1-1)
- Pearson Street, Wagga Wagga (Figure 1-2).

The A2I section of the Inland Rail project is Critical State Significant Infrastructure (CSSI) and was approved on 8<sup>th</sup> October 2024 (Infrastructure Approval). The approval covered all works proposed within the CIZ. As a result of the need to relocate utilities in the Wagga Wagga area, a CIZ extension was required, the potential heritage impacts of which are addressed in this report. This additional assessment informs a Consistency Assessment for the CIZ extension.

Figure 1-1. Map showing the Edmondson Street and Cassidy Parade existing approved CIZ and proposed CIZ extension.



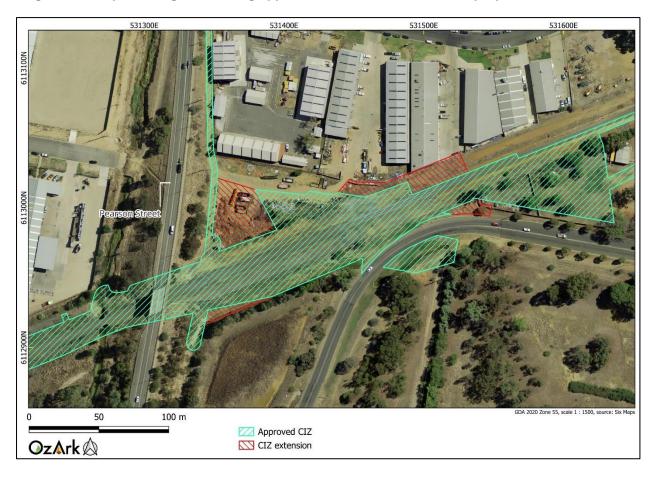


Figure 1-2. Map showing the existing approved Pearson Street CIZ and proposed CIZ extension.

## 1.1 PREVIOUS HERITAGE ASSESSMENTS

The historic heritage impacts of the A2I project within the approved CIZ were assessed in the *Inland Rail: Albury to Illabo Non-Aboriginal Heritage Assessment* (GML 2022), which encompassed assessment of 24 locations where proposed enhancement works were being undertaken for the A2I project. This study assessed all then known potential impacts to both registered and unregistered historical heritage items, covering the CIZ shown in green hatching on **Figure 1-1** and **Figure 1-2**.

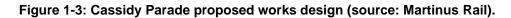
The GML study assessed both direct historic heritage impacts within the approved CIZ boundary and indirect impacts to listed historic heritage located adjacent to and within 200 metres (m) of the CIZ boundary. As the assessment beyond the approved CIZ boundary was in relation to indirect impacts (e.g. vibration, viewsheds and vistas, and curtilages) and not direct impacts as may occur within an extension to the CIZ, it was concluded that additional assessment was required to ensure that the provisions of the Infrastructure Approval could be met in relation to the proposed CIZ extension.

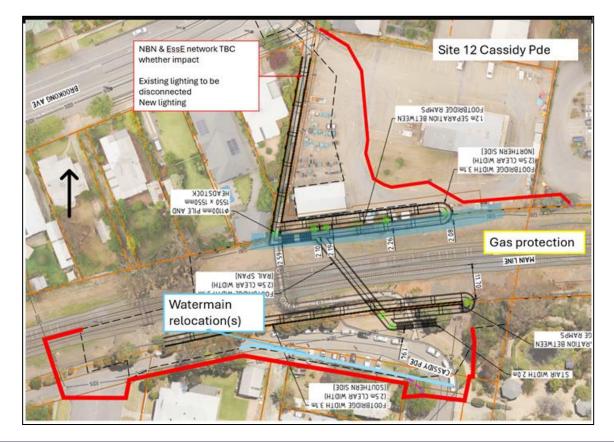
The remainder of this report provides historic heritage assessment of the three CIZ extension areas together with the management measures to be applied that will ensure compliance with the Infrastructure Approval.

## **1.2 PROPOSED WORKS – CIZ EXTENSION ZONES**

The extension of the CIZ is to enable Martinus Rail to undertake utility works beyond the existing approved CIZ. The required utility works vary between locations and are detailed below:

- Cassidy Parade (Figure 1-3)
  - The works involve a water main relocation, and the installation of a gas protection slab. The water main relocation works involve trenching and ground disturbance within the Wagga Wagga Heritage Conservation Area listed on the Wagga Wagga Local Environmental Plan 2010.
- Pearson Street (Figure 1-4)
  - The works involve relocation a water main, part of which will occur outside the approved CIZ. The works will not require ground disturbance within or near a heritage item.
- Edmondson Street (Figure 1-5)
  - The works involve relocation of APA HP & MP gas main infrastructure that will require underbore retrieval within the Wagga Wagga LEP (2010) curtilage of Item I254 "Former Best Street railway gatehouse" and State Heritage Register (SHR) item "Wagga Wagga Railway Station and yard group" (SHR#01279).
  - Clearing and trimming of tree vegetation is required within the LEP curtilage of "Mt Erin Convent, Chapel, High School & Grounds" (I260) as well as within the Wagga Wagga Conservation Area, to allow for the construction of essential distribution lines.





Inland Rail A2P: CIZ extension – Wagga Wagga Utilities Non-Aboriginal Heritage Assessment ARTC Doc No:

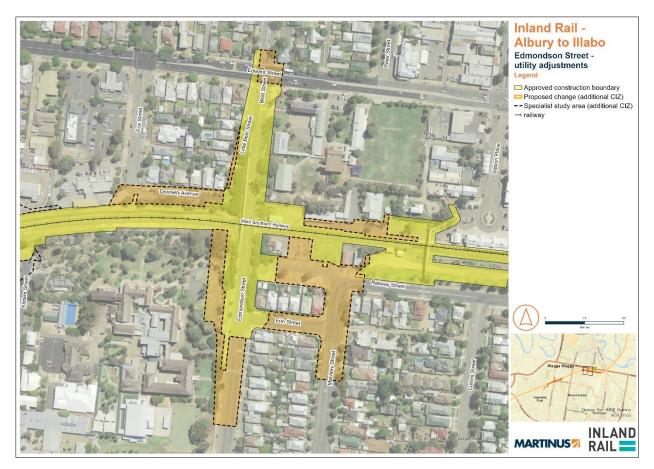
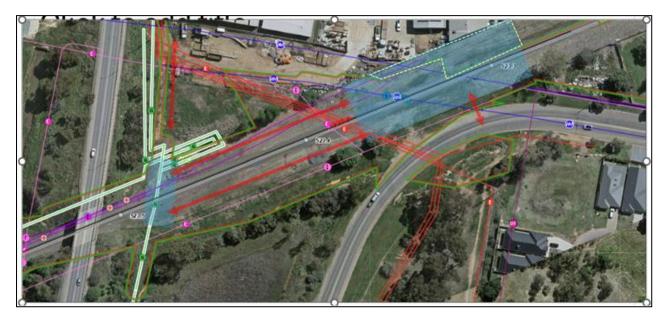


Figure 1-4: Edmondson Street proposed works design (source: Martinus).

Figure 1-5: Pearson Street proposed works design (source: Martinus).



## 2 ASSESSMENT OF LISTED HERITAGE WITHIN THE CIZ EXTENSION

The CIZ extension involves the curtilage moving closer to several LEP listed heritage items, as well as changing its interaction with the SHR curtilage of the Wagga Wagga Railway Station and yard group. As the proposed works are primarily subsurface infrastructure movements the majority of these listed places would not be impacted by the proposed works. The assessment below documents these interactions by each CIZ extension area in line with the *Guidelines for preparing a statement of heritage impact* (DPE 2023a) and Heritage Council's *Historical Archaeology Code of Practice* to assess whether these items of historic significance may be impacted by the CIZ extension.

### 2.1 CASSIDY PARADE

The CIZ extension at Cassidy Parade already interacts with the Wagga Wagga Heritage Conservation Area (WWHCA) listed on Schedule 5 of the Wagga Wagga LEP 2010. WWHCA, as described in the DCP, encompasses the Fitzmaurice Street commercial precinct as well as the western and southern residential precincts that form a cohesive heritage streetscape. These areas retain various buildings from the Victorian, Federation, Edwardian and Interwar period.

Interaction with the WWHCA is marginally increased on the northern side of the rail line on Brookong Avenue, and is increased on the southern side of the rail line along Cassidy Parade, as seen in **Figure 1-3** and **Figure 2-2**. As the proposed new work involves sub-surface realignment of a water main there will be no permanent alteration to the character of the WWHCA.

The Cassidy Parade pedestrian footbridge has already been approved for removal and so no further consideration to this listed heritage site is considered necessary.

### 2.2 PEARSON STREET

No State or local heritage items are located within the CIZ extension. The CIZ extension at Pearson Street abuts the curtilage of LEP Item I246 "Wagga Wagga Showground, Kyeamba Smith Hall & grands" (**Figure 2-3**). This portion of Item I246 is within the existing approved CIZ and was assessed by GML in 2022. The proposed CIZ extension here would not increase impact to the heritage values of this listed site.

### 2.3 EDMONDSON STREET

The CIZ extension at Edmondson Street is the most extensive and complex of the three areas and will be considered under separate subheadings, from general to specific, from north to south.

### 2.3.1 LEP listed heritage

### 2.3.1.1 Interaction with Wagga Wagga Heritage Conservation Zone

The entirety of the CIZ extension in this area interacts with the WWHCA. The activities to take place within the CIZ extension include gas main realignment, vegetation trimming and power line realignment. The Wagga Wagga DCP 2010 guides development within the WWHCA and is primarily focused on building redevelopment with a focus on retention of the character of the area. It is not considered that the works proposed within the CIZ extension would negatively impact on the heritage characteristics of the WWHCA.

### 2.3.1.2 Edward and Best Streets intersection, LEP item I262, former corner store

The CIZ extension here is to facilitate the movement of an existing above ground 66kV electricity transmission line. This would occur at a busy intersection with traffic lights adjacent to the LEP listed former corner store, item I262. As many overhead powerlines already run through this area, the realigned 66kV easement would not cause any negative impact to the visual amenity of item I262.

### 2.3.1.3 Mt Erin Convent, LEP item I260

The Mt Erin Convent, chapel, high school & grounds (I260) (Mt Erin complex) has been assessed as a locally significant historical site, with the following summary of significance derived from the State Heritage Inventory (SHI):

The Kildare Catholic College includes an excellent grouping of historic structures that includes some impressive individual buildings of great local historic interest. The former Presentation Convent and Chapel were built for the Presentation Nuns who taught Catholic children in Wagga Wagga from 1889. The buildings including the convent, chapel, boarding school and the 1938 high school building have associations with Catholic education and worship in Wagga Wagga. It has direct associations the Presentation Sisters who were responsible for Catholic education for many years. The buildings have local historical, historical association, aesthetic and social significance, and representativeness.

It has a high degree of integrity. The siting of the building and the integrity of its aesthetic qualities also makes it a notable and attractive landmark in its local area. The place contributes positively to the streetscape of the area and contributes to the local community's sense of place. To the township and district as a place which has played an important role in the development of the Catholic community since early settlement. The place is representative of the development of educational facilities in the region, and its fabric reflects the development that occurred in the history of education in the region in the period.

Overall, the convent, chapel, boarding school and 1938 high school buildings are assessed to be of local heritage significance.

- The Mount Erin Convent (1976)
- The Mount Erin Boarding School (1889)
- o Chapel (1915)
- The Mount Erin High School (1938)

The proposed impact of the CIZ extension into the Mt Erin Convent, School and Chapel is in the northeast corner of the listed Lot and DP, in the vicinity of the entrance and driveway off Edmondson Street **Figure 1-4** and **Figure 2-2**. In this area it is proposed that trees would be removed as well as trimmed for a proposed power easement relocation, to be shifted slightly from the Edmondson Road easement into the Mt Erin property to facilitate construction of the new Edmondson Street Bridge.

Specifically, the vegetation / grounds of the Mt Erin complex are not listed as part of the significance of the listing, with the significant values being ascribed primarily to the buildings themselves and their historic functions. Consequently, minor vegetation removal to facilitate the electricity easement movement will not have a direct negative impact to the values of the listed Mt Erin Convent and buildings. Despite this, regard must be had for the overall amenity of the site and the fact that the mature vegetation does enhance the sense of place. Vegetation removal should be kept to the minimum required for safe operation within the power easement.

It is important to note that some impact to the vegetation in the northeast corner of the Mt Erin complex was already assessed as part of the heritage impact assessment (GML 2022) undertaken for the A2I Inland Rail project and is consequently approved. This acknowledged the presence of the 66vK easement and the need for the removal of some plantings. It was concluded in this report that this vegetation clearance would not alter the overall character of the Mt Erin complex and was a minor impact.

### 2.3.1.4 Best Street railway gatehouse (former) LEP I254

The interaction between the proposed CIZ extension and the former Best Street railway gatehouse can be seen in **Figure 2-2**. It is of note that the cottage that is the subject of this listing is situated within the western portion of the Lot and DP that is mapped as item I254. As a result of consultation with Martinus Rail over the proposed CIZ extension in this area, Martinus Rail reduced the extent so as to exclude the cottage, as can be seen in image 3, **Figure 2-1**.

The listing information for the Best Street former gatehouse is minimal, but all available data indicates it is the building itself and its former function as part of the Wagga Wagga Railway Group that underpins its local heritage significance. Consequently, exclusion of this part of the Lot and DP from the CIZ extension ensures that this significance cannot be impacted. The only works

required within the CIZ extension area east of the Best Street gatehouse is for underground gas pipeline relocation and consequently no permanent above ground changes to the visual amenity will occur in that area. The area of the CIZ extension is shown in images 1 and 2 of Figure 2-1, taken from the rail line. As can be seen this area is currently devoid of buildings and is used as a haphazard stockpile zone.

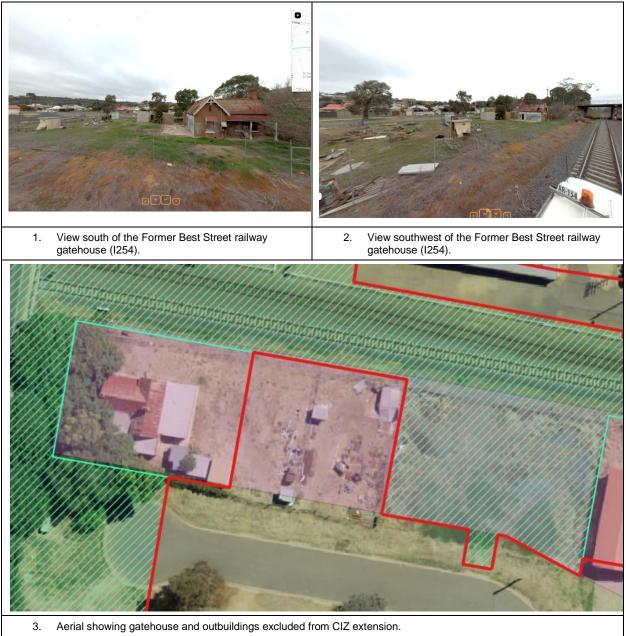


Figure 2-1: 2024 view of the cottage gatehouse (I254) (also see front cover image)

KEY: Red line CIZ Extension; Blue hatch approved CIZ and pink shade LEP I254.

### 2.3.2 State listed heritage

### 2.3.2.1 Wagga Wagga Railway Station and yard group SHR 01279

There are two interaction areas between the proposed CIZ extension and the SHR curtilage of the Wagga Wagga Railway Station and yard group SHR 01279 (**Figure 2-2**).

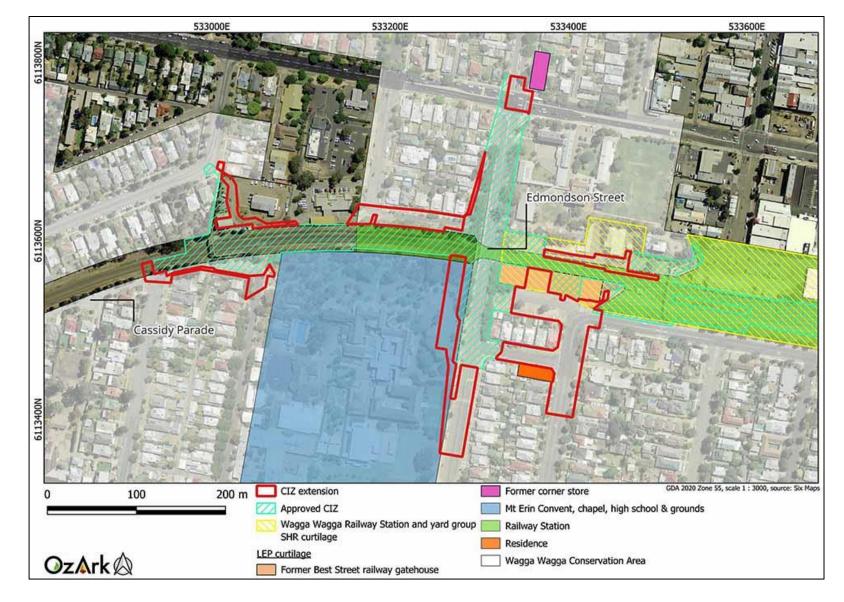
### Northern side of the rail line

The extension in this area is only required to afford access to the rail line for the purpose of the proposed change. The CIZ extension area is already comprised of a modern road, and there would be no permanent above ground alterations in this area and no impact to State heritage listed fabric or potential archaeological deposits. The prior high levels of development in this area will have removed any potential archaeological remains had they ever been present.

### Southern side of the rail line

The eastern area is a very minor CIZ extension across a hardstand apron into a modern storage shed / garage. This area partially overlaps with the LEP Lot / DP for the Best Street Gatehouse as well as the SHR Wagga Wagga Railway Station curtilage. This area has no heritage values and is not in proximity of any heritage fabric. The incursion into the SHR curtilage would be temporary and would not alter any viewsheds of vistas of Wagga Station and its associated buildings of heritage significance. It is of note that this area also overlaps with the LEP curtilage of Wagga Wagga Railway Station (LEP I98), and the conclusions of 'no impact to heritage values' applies to this listing as well.

*The western area* adjacent to the Best Street railway gatehouse is the same as that discussed in **Section 2.3.1.4**, as this physical area is relevant to both the local and state heritage listings. As concluded by GML (2022), the Best Street railway gatehouse remains excluded from impact, as the CIZ extension has been limited to a section of land between the rail line and Railway Parade that contains no structures associated with the heritage significance of the Wagga Wagga Railway Station and yard group. As a consequence, there would be no impacts to the heritage significance of the SHR listed Wagga Wagga Railway Station and yard group.





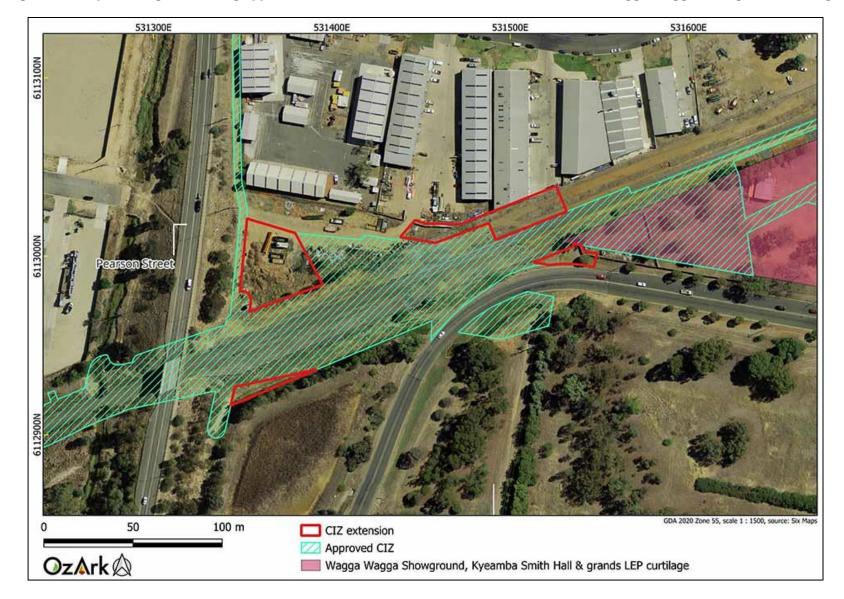


Figure 2-3. Map showing the existing approved Pearson Street CIZ extension in relation to the Wagga Wagga Showground curtilage.

### 3 CONCLUSIONS

The proposed works within the CIZ extension include disturbance of the ground through underboring and trenching, movement of underground and overhead powerlines and vegetation trimming and removal, some partially located within LEP and SHR curtilages, as outlined in **Section 2**.

These proposed works avoid all heritage fabric, archaeological deposits and any values identified in the heritage significance documentation attached the listings and are confined to areas that have been previously highly disturbed.

As a result, it can be concluded that the impacts of the proposed CIZ extension in the Wagga Wagga local government area would have "no impacts on heritage items (including areas of archaeological sensitivity)....beyond the impacts approved under the terms of this approval".

#### 4 MANAGEMENT MEASURES

To ensure that the proposed works within the proposed Inland Rail A2I CIZ extension in Wagga Wagga do not inadvertently impact non-Aboriginal heritage, the following recommendations should be adhered to:

- Demarcation (using barricading or flagging) of the CIZ extension footprint within listed heritage sites to ensure no inadvertent impacts beyond this
- In the unlikely event that excavation work encounters potential heritage items, the *Unexpected Heritage Finds and Human Remains Procedures*, Appendix B of the Construction Cultural Heritage Management Plan (CCHMP) should be followed.
- If further extension of the CIZ is required that interact with listed heritage sites, then further assessment would be required to ensure that the provisions of CoA 15(c) can be met.
- Other provisions as outlined in the CCHMP, specifically regarding heritage inductions for work crews, should also be followed.

## References

Burra Charter	The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance. International Council on Monuments and Sites. 2013.
DPE 2023a	<i>Guidelines for preparing a statement of heritage impact.</i> Department of Planning and Environment. 2023.
DPE 2023b	Assessing heritage significance. Guidelines for assessing places and objects against the Heritage Council of NSW criteria. Department of Planning and Environment. 2023.
Rob Nesbitt 2019	Nesbitt, R. 2019. "Gatekeepers cottages". <i>Building Wagga Wagga.</i> Accessed 31 October 2024. Available at: <u>https://buildingwagga.blogspot.com/2019/03/gatekeeper-cottages.html</u>
GML 2022	GML Heritage. 2022. Inland Rail – Albury to Illabo Technical Paper 3 – Non-Aboriginal Heritage. Report to ARTC.
WW DCP 2010	Wagga Wagga Development Control Plan 2010 as amended – Section 3 – Heritage Conservation. https://wagga.nsw.gov.au/ data/assets/pdf_file/0013/112252/Wagga- Wagga-DCP-2010-as-amended-Section-3-Heritage-Conservation-Version- 27-Final.pdf



# Appendix E Biodiversity Assessment Report Memo

Adrian Broger Environmental Approvals Advisor Martinus Rail Pty Ltd



7<sup>th</sup> April 2025

#### Biodiversity Memorandum: Inland Rail (Albury to Illabo)

Dear Adrian,

Martinus Rail Pty Ltd (Martinus) on behalf of the Australian Rail Track Corporation (ARTC) propose to erect temporary construction solid hoarding, remove school fencing and conduct vegetation removal and trimming to accommodate utility relocation and construction works in Wagga Wagga, NSW (Proposed Change).

The Proposed Change is located outside of the construction boundary of the Albury to Illabo section of the Inland Rail program (the Project) and was not assessed as a part of the Inland Rail, Albury to Illabo Revised Technical Paper 8: Biodiversity Development Assessment Report (BDAR) (WSP, 2023).

#### 1.1 Scope of Assessment

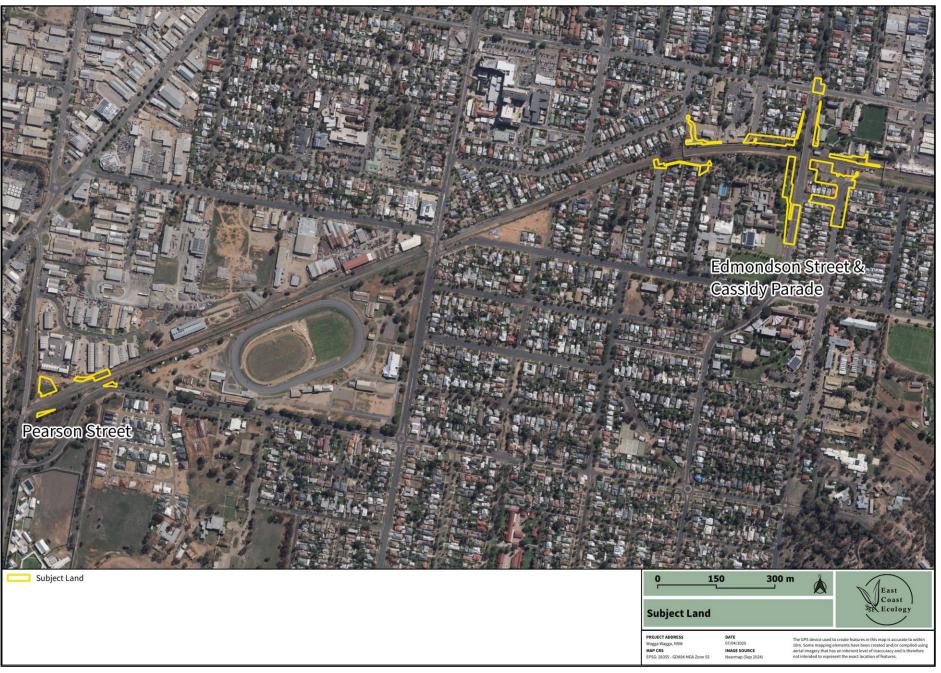
East Coast Ecology Pty Ltd (ECE) was commissioned by ARTC c/- Martinus to prepare a Biodiversity Memo, for the Proposed Change. The scope of this assessment was to identify and assess impacts to species and ecological communities listed as threatened under the *Biodiversity Conservation Act 2016* (NSW) (BC Act), *Fisheries Management Act 1994* (FM Act) and Matters of National Environmental Significance (MNES) listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and where relevant, the requirements of the *Biosecurity Act 2015* (NSW), and relevant State Environmental Planning Policies (SEPPs).

The area assessed in this memo has been defined by representatives of Martinus, this memo has been prepared to accompany a Consistency Assessment (CA) in relation to the Proposed Change, and is hereafter referred to as the Subject Land.

#### 1.2 The Subject Land

The Subject Land covers an area of approximately 2.43ha that adjoins the Main South Line in two distinct locations centred on Edmondson Street/ Cassidy Parade and Pearson Street (**Figure 1** - **Figure 3**).

The Subject Land is located within the suburb of Turvey Park in the Wagga Wagga Local Government Area.



#### Figure 1. Location of the Subject Land.



Figure 2. Location of the Subject Land (Edmondson Street and Cassidy Parade).



#### Figure 3. Location of the Subject Land (Pearson Street).

#### 2. METHODS

A thorough literature review of local information relevant to the Subject Land was undertaken. Searches using NSW Wildlife Atlas (BioNet) (NSW DCCEEW, 2025a), the Commonwealth Protected Matters Search Tool (PMST) (DCCEEW, 2025) and the Fisheries Spatial Data Portal (DPI, 2025) were conducted to identify all current threatened flora and fauna, as well as migratory fauna records, within a 5km radius of the Subject Land. A literature review was also undertaken of all relevant project documentation, including;

- Biodiversity Development Assessment Report (WSP, 2023), and
- Environmental Impact Statement (ARTC, 2022).

#### 2.1 Native Vegetation

A review of the State Vegetation Type Map (NSW DCCEEW, 2024b) was used to assist in the identification of Plant Community Types (PCTs) within and surrounding the Subject Land. The PCT of 'best-fit' was determined based on the floristic descriptions within the BioNet Vegetation Classification System database (NSW DCCEEW, 2024c).

#### 2.2 Threatened Flora Survey Methods

Threatened flora that are known or likely to occur within the Subject Land and immediate surrounds (i.e. within 5km) were identified following a review of BioNet and the PMST. Soil mapping (NSW DCCEEW, 2024d) and topography (Google Earth) were also used to provide further context on habitat constraints for threatened flora.

Targeted surveys were undertaken by Ecologist; Chris Keogh on the 1<sup>st</sup> October 2024, using parallel field traverses in accordance with the 'Surveying threatened plants and their habitats - NSW survey guide for the Biodiversity Assessment Method' (DPIE, 2020). All vegetated areas within the Subject Land were surveyed.

#### 2.3 Threatened Fauna Survey Methods

Threatened fauna were recorded opportunistically however, their habitats (e.g. waterbodies, rocky areas, tree hollows), were targeted during the parallel field traverses. Potential habitat constraints within the broader area (500m buffer) were assessed using Google Earth, soil landscape mapping (NSW DCCEEW, 2024d) and recent vegetation mapping (NSW DCCEEW, 2024b).

## 3. EXISTING ENVIRONMENT

## 3.1 Rivers, streams, estuaries and wetlands

No watercourses occur within the Subject Land. The Subject Land is located within the Murrumbidgee River catchment, a 9<sup>th</sup> order watercourse, which occurs approximately 1km north of the Subject Land.

## 3.2 Habitat Connectivity

Negligible terrestrial habitat connectivity exists between the Subject Land and the broader landscape due to historical clearing and existing infrastructure (e.g. roads, railway and built areas) (**Figure 5** - **Figure 6**).

The Subject Land may provide mobile species with minor refuge while moving throughout the landscape, however due to the degraded condition of the vegetation, it is not considered likely that threatened species would be reliant on this area as a part of their life cycle.

#### 3.3 Karst, Caves, Crevices, Cliffs, Rocks or Other of Geological Features of Significance

The Subject Land did not contain any areas of geological significance, such as karsts, caves, cliffs or crevices. The Subject Land was not mapped as occurring on acid sulfate soils nor mapped as having risk/ probability of exhibiting occurrence of acid sulfate soils.

### 3.4 Areas of Outstanding Biodiversity Value

No Areas of Outstanding Biodiversity Value occur on the Subject Land or the surrounding area.

#### 3.5 Topography, Geology and Soils

The Subject Land is mapped as occurring on the 'Becks Lane' soil landscape', characterised by, gently inclined footslopes adjacent to hills of thick slope-washed and alluvial-colluvial sands, clays and gravels, mostly derived from Ordovician metasedimentary rocks. The Subject Land occurs on gently inclined terrain, ranging from 186m above sea level (asl) to 197m asl between localities (Google Earth).

#### 3.6 Mapped Native Vegetation Communities – NSW State Vegetation Type Map

The NSW State Vegetation Type Map (NSW DCCEEW, 2024b) indicated the absence of PCTs within or adjoining, the Subject Land (**Figure 4**). The Subject Land has been mapped as 'Not classified'.



## Figure 4. NSW State Vegetation Type Map (NSW DCCEEW, 2024b).

#### 4. RESULTS

#### 4.1 Field-validated Native Vegetation

Due to historical agricultural, infrastructure, residential and industrial development within the Subject Land, and specifically a lack of native and/ or diagnostic species for candidate PCTs, the following vegetation community types described by WSP (2023) were assigned:

- Miscellaneous Ecosystems 'Ornamental Plantings', and
- Miscellaneous Ecosystems 'Highly Disturbed areas with no or limited Native Vegetation'.

These vegetation community types are consistent with vegetation types described in the approved BDAR.

#### Table 1. Vegetation communities identified within the Subject Land.

Community Name	Area within the Subject Land (ha)
Miscellaneous Ecosystems – Ornamental Plantings	0.51ha
Miscellaneous Ecosystems – Highly Disturbed areas with no or limited Native Vegetation	0.42ha
Total Area	0.93ha

#### 4.1.1 Community type Miscellaneous Ecosystems – Ornamental Plantings

Due to the Subject Land's historical and ongoing residential and community use at Edmondson Street and Cassidy Parade, much of the vegetation is comprised of ornamental native and exotic species planted for aesthetic purposes and was therefore determined to have limited ecological function (WSP, 2023) (**Figure 5-Figure 6**). Ornamental Plantings includes areas that are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits, per Section 9.3 of the BAM (DPE, 2020a).

# 4.1.2 Community type Miscellaneous Ecosystems – Highly Disturbed areas with no or limited Native Vegetation

Due to a long history of disturbance from agricultural, infrastructure (rail and road) and industrial use, the Subject Land at Edmondson Street and Pearson Street is comprised of no or limited native species and is dominated by exotic species, and provides limited ecological function (WSP, 2023) (**Figure 5-Figure 6**). Highly Disturbed areas with no or limited native vegetation includes areas that are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits, per Section 9.3 of the BAM (DPIE, 2020a).

Descriptions of the vegetation types are provided in **Table 2**.and **Table 3**.

Table 2. Miscellaneous Ecosystems - Ornamental plantings vegetation identified within the Subject Land.

Miscellaneous Ecosystems – Ornamental Plantings						
Novel Vegetation Type Miscellaneous Ecosystems – Ornamental Plantings						
Extent	0.51ha					
Description of vegetation	The vegetation within this zone was comprised of exotic and non-endemic native ornamental plantings. Vegetation was mostly planted in the street verge or nature strip and consisted of <i>Lagerstroemia indica</i> (Crepe Myrtle), <i>Melia azedarach</i> (White Cedar), <i>Jacaranda mimsofolia</i> (Jacaranda), <i>Melaleuca linariifolia</i> (Paperbark), <i>Callistemon viminalis</i> (Weeping Bottle Brush), <i>Lophostemon confertus</i> (Brush Box), <i>Brachychiton populneus</i> (Kurrajong), <i>Corymbia citriodora</i> (Lemon-scented Gum), the mid-story was absent and the ground layer was mostly exotic lawn.					

# Table 3. Miscellaneous Ecosystems - Highly Disturbed areas with no or limited Native Vegetation, vegetation identified within the Subject Land.

Miscellaneous Ecosystems - Highly Disturbed areas with no or limited Native Vegetation						
Novel Vegetation Type Miscellaneous Ecosystems - Highly Disturbed areas with no or limi Native Vegetation						
Extent	0.42ha					
Description of vegetation	The vegetation within this zone was heavily comprised of exotic ground cover species such as <i>Plantago lanceolata</i> (Ribwort Plantain), <i>Bromus</i> sp. and <i>Arctotheca calendula</i> (Cape Weed). The regions this vegetation occurred, were almost entirely developed and displayed a long history of disturbance from infrastructure such as roads, rail, carparks and concrete footpaths.					



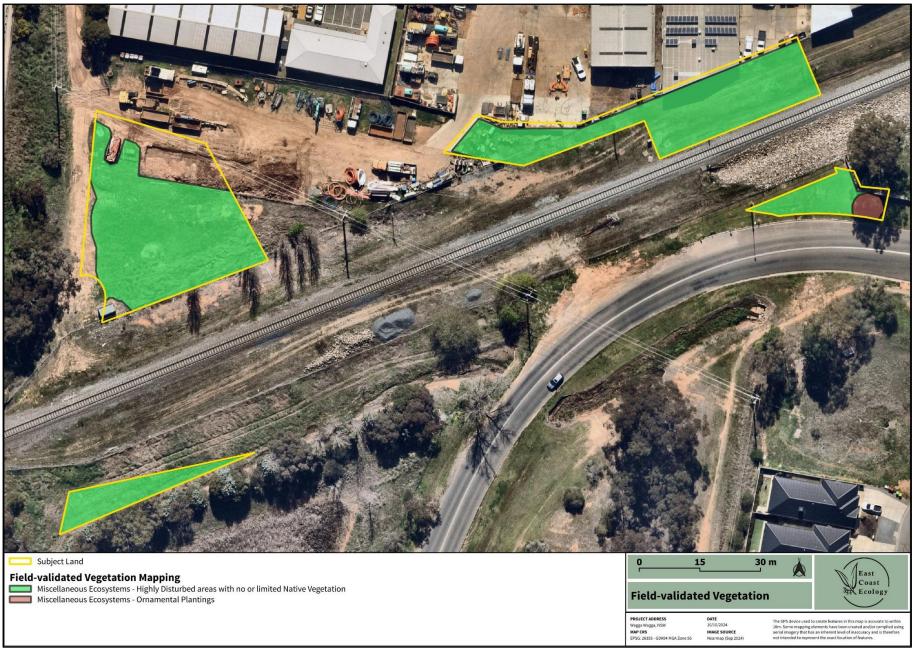
Plate 1. An example of Miscellaneous Ecosystems - Ornamental Plantings within the Subject Land.



Plate 2.An example of Miscellaneous Ecosystems - Highly Disturbed areas with no or limited Native Vegetation within the Subject Land.



Figure 5. Field-validated vegetation communities (Edmondson Street and Cassidy Parade).



#### Figure 6. Field-validated vegetation communities (Pearson Street).

#### 4.2 Threatened Flora

BioNet and PMST searches revealed ten threatened flora species occur, or have potential to occur, within a ~5km radius of the Subject Land.

Scientific Name	Common Name	BC Act	EPBC Act	Records within 5km
Austrostipa wakoolica	Wakool Spear-grass	E	E	Modelled Only
Brachyscome muelleroides	Claypan Daisy	V	V	1
Caladenia arenaria	Sand-hill Spider-orchid	E	E	Modelled Only
Caladenia concolor	Crimson Spider-orchid, Maroon Spider-orchid	E	V	Modelled Only
Lepidium aschersonii	Spiny Peppercress	V	V	Modelled Only
Lepidium monoplocoides	Winged Pepper-cress	E	E	Modelled Only
Prasophyllum petilum	Tarengo Leek Orchid	Е	E	Modelled Only
Senecio garlandii	Woolly Ragwort	V	-	2
Swainsona murrayana	Slender Darling-pea, Slender Swainson, Murray Swainson-pea	V	V	Modelled Only
Swainsona recta	Small Purple-pea	E	E	2

Table 4. Threatened flora with	potential to occur within the Subject Land.

V – Vulnerable; E – Endangered; EP – Endangered Population; CE – Critically Endangered

The results from the site assessment, including targeted flora surveys and habitat assessment, were used to assess each species' likelihood of occurrence within the Subject Land. After carrying out the assessment, the assessor determined that the habitat is substantially degraded such that all potential threatened flora species are unlikely to occur within the Subject Land.

#### 4.3 Threatened Fauna

BioNet and PMST searches revealed 33 threatened fauna occur, or have potential to occur, within a ~5km radius of the Subject Land.

Scientific Name	Common Name		EPBC Act	Records within 5km
Anthochaera phrygia	Regent Honeyeater	Е	CE	1
Artamus cyanopterus cyanopterus	Dusky Woodswallow	V	-	3
Burhinus grallarius	Bush Stone-curlew	Е	-	4
Calidris ferruginea	Curlew Sandpiper	Е	CE	3
Callocephalon fimbriatum	Gang-gang Cockatoo	Е	E	3

Scientific Name	Common Name	BC Act	EPBC Act	Records within 5km
Chthonicola sagittata	Speckled Warbler	V	-	1
Circus assimilis	Spotted Harrier	V	-	2
Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	V	V	10
Daphoenositta chrysoptera	Varied Sittella	V	-	1
Dasyurus maculatus	Spotted-tailed Quoll	V	E	1
Epthianura albifrons	White-fronted Chat	V	-	7
Falco subniger	Black Falcon	V	-	8
Gallinago hardwickii	Latham's Snipe	V	V	17
Glossopsitta pusilla	Little Lorikeet	V	-	1
Hieraaetus morphnoides	Little Eagle	V	-	20
Hirundapus caudacutus	White-throated Needletail	V	V	1
Lathamus discolor	Swift Parrot	E	CE	5
Macrotis lagotis	Bilby	E	V	1
Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	V	-	1
Myotis macropus	Southern Myotis	V	-	2
Neophema pulchella	Turquoise Parrot	V	-	1
Ninox connivens	Barking Owl	V	-	4
Petaurus norfolcensis	Squirrel Glider	V	-	107
Petaurus norfolcensis	Squirrel Glider in the Wagga Wagga Local Government Area	E	-	107
Petroica boodang	Scarlet Robin	V	-	5
Petroica phoenicea	Flame Robin	V	-	6
Phascolarctos cinereus	Koala	Е	E	1
Polytelis swainsonii	Superb Parrot	V	V	30
Pteropus poliocephalus	Grey-headed Flying-fox	V	V	83
Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	V	-	1
Stagonopleura guttata	Diamond Firetail	V	V	4
Stictonetta naevosa	Freckled Duck	V	_	1
Tyto novaehollandiae	Masked Owl	V	-	1

V – Vulnerable; E – Endangered; EP – Endangered Population; CE – Critically Endangered

The degraded vegetation within the Subject Land would only provide low-quality foraging habitat for threatened species. There was no breeding habitat identified (in the form of hollow-bearing trees, rocky outcrops/ caves, waterbodies, large trees or human-made structures).

Due to the absence of suitable habitat constraints and/ or the degraded nature of potential habitat and historical clearing, it was determined that the habitat is substantially degraded such that potential threatened fauna are unlikely to utilise the Subject Land.

## 4.4 Migratory Species

Database searches revealed eight migratory terrestrial species, or their habitat, are known to occur within the Subject Land (**Table 6**). These species are unlikely to occur due to the lack of suitable habitat in the Subject Land (i.e. ornamental tree dominated) and these species do not breed in Australia.

Table 6. Migratory terrestrial species with potential to occur in the Subject Land.

Species	EPBC Act Status
Actitis hypoleucos (Common Sandpiper)	Migratory, CAMBA, JAMBA, ROKAMBA
Calidris acuminata (Sharp-tailed Sandpiper)	Migratory, CAMBA, JAMBA, ROKAMBA
Calidris ferruginea (Curlew Sandpiper)	Critically Endangered, Migratory, CAMBA, JAMBA, ROKAMBA
Calidris melanotos (Pectoral Sandpiper)	Migratory, JAMBA, ROKAMBA
Gallinago hardwickii (Latham's Snipe)	Vulnerable, Migratory, JAMBA, ROKAMBA
<i>Hirundapus caudacutus</i> (White-throated Needletail)	Vulnerable, Migratory, CAMBA, JAMBA, ROKAMBA
Motacilla flava (Yellow Wagtail)	Migratory, CAMBA, JAMBA, ROKAMBA

CAMBA = China-Australia Migratory Bird Agreement, JAMBA = Japan-Australia Migratory Bird Agreement, ROKAMBA = Republic of Korea-Australia Migratory Bird Agreement and Bonn = Convention on the Conservation of Migratory Species of Wild Animals

## 5. IMPACT SUMMARY

The proposed activity will require the removal/ trimming of:

- 0.51ha of Miscellaneous Ecosystems Ornamental Plantings, and
- 0.42ha of Miscellaneous Ecosystems Highly Disturbed areas with no or limited Native Vegetation.

All vegetation proposed for removal provides low-quality foraging habitat for threatened fauna. Within the context of the surrounding landscape, it is unlikely this vegetation would be utilised given the presence of superior habitats adjoining the Subject Land, and in the broader landscape. Further, it is considered unlikely that any threatened species would occupy the Subject Land due to evidence of ongoing disturbance (railway, roads, residential housing). As such, no threatened flora or fauna are likely to be significantly impacted.

#### 6. LEGISLATION

#### 6.1 Matters of National Environmental Significance

Under the EPBC Act, a proponent must not take an action if that action will have, or is likely to have, a significant impact on matters protected under the EPBC Act, referred to as MNES. The EPBC Act identifies eight MNES:

- World Heritage properties
- National Heritage places
- Wetlands of international importance (those listed under the Ramsar Convention)
- Listed threatened species and communities
- Migratory species listed under international agreements
- Great Barrier Reef Marine Park
- Commonwealth marine areas
- Nuclear actions

The PMST identified the following as potentially occurring within the Subject Land or surrounding area:

- 3 Threatened Ecological Communities
- 43 Threatened species
- 8 Migratory species

No MNES have been identified in or adjoining the Subject Land.

#### 6.2 State Environmental Planning Policy (Resilience and Hazards) 2021

The State Environmental Planning Policy (Resilience and Hazards) 2021 (Resilience and Hazards SEPP) commenced on the 1st of March 2022 and replaces the following former SEPPs:

- State Environmental Planning Policy (Coastal Management) 2018
- State Environmental Planning Policy 33 Hazardous and Offensive Development, and
- State Environmental Planning Policy 55 Remediation of Land.

The Subject Land is not situated within the 'Coastal Zone' therefore this SEPP does not apply.

#### 6.3 Fisheries Management Act 1994

The FM Act aims to conserve, develop, and share the fishery resources of NSW for the benefit of present and future generations including conserving fish stocks and key fish habitats and promoting ecologically sustainable development.

The proposed activity does not require works within mapped KFH, nor did threatened aquatic species or marine vegetation protected under the FM Act occur within the Subject Land. As such, the activity would not impact upon KFH, nor are there any legislative requirements or notifications required under this Act.

## 6.4 Biosecurity Act 2015

The *Biosecurity Act 2015* (NSW) provides a framework for the prevention, elimination and minimisation of biosecurity risks posed by an activity as a matter of biosecurity. As defined in Part 3, section 23 of this Act,

any non-conformance by an individual is defined as guilty of an offence. No priority weeds were identified within the Subject Land at the time of the survey:

All priority weeds are to be appropriately managed in accordance with the *Biosecurity Act 2015*.

## 7. MANAGEMENT MEASURES AND IMPLEMENTATION

The potential impacts on biodiversity identified for the Proposed Change can be appropriately managed in accordance with the Conditions of Approval and through implementation of the updated management measures outlined in the Preferred Infrastructure Report Submissions Report for the Project.

## 8. CONCLUSION

The proposed activity will require the removal/ trimming of:

- 0.51ha of Miscellaneous Ecosystems Ornamental Plantings, and
- 0.42ha of Miscellaneous Ecosystems Highly Disturbed areas with no or limited Native Vegetation.

No impacts to threatened species, populations or ecological communities are expected as a result of the proposed activity.

Although outside the assessed construction boundary for the Project, the biodiversity impacts are considered consistent with the initial assessment (WSP, 2023), and no further offsets (ecosystem or species) would be required.

If you have any queries, please feel free to contact me.

Sincerely,

Alex Graham BSc (Biology), Grad Dip (Bushfire Protection) Director/ Principal Ecologist - Accredited Biodiversity Assessor (BAAS19040) E: alex.graham@ececology.com.au

#### 9. **REFERENCES**

- Australian Rail Track Corporation (ARTC 2022) Inland Rail Albury to Illabo Environmental Impact Statement
- Department of Climate Change, Energy, the Environment and Water (DCCEEW) (2024) Protected Matters Search Tool
- Department of Planning, Industry and Environment (DPIE, 2020) Surveying threatened plants and their habitats NSW survey guide for the Biodiversity Assessment Method
- NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) (2024a) NSW BioNet Atlas
- NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) (2024b) NSW State Vegetation Type Map
- NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) (2024c) BioNet Vegetation Classification
- NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) (2024d) eSPADE

NSW Department of Primary Industries (DPI) (2024) Fisheries NSW Spatial Data Portal

Office of Environment and Heritage (OEH) (2018) Threatened Species Test of Significance Guidelines

WSP (2023) Albury to Illabo Inland Rail- Revised Technical Paper 8: Biodiversity Assessment Report



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# Appendix F Consultation Evidence (Erin Earth)

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# **Appendix G Unexpected Finds Procedure (Heritage and Human Remains)**

#### ABORIGINAL AND NON-ABORIGINAL HERITAGE: UNEXPECTED FINDS PROCEDURE

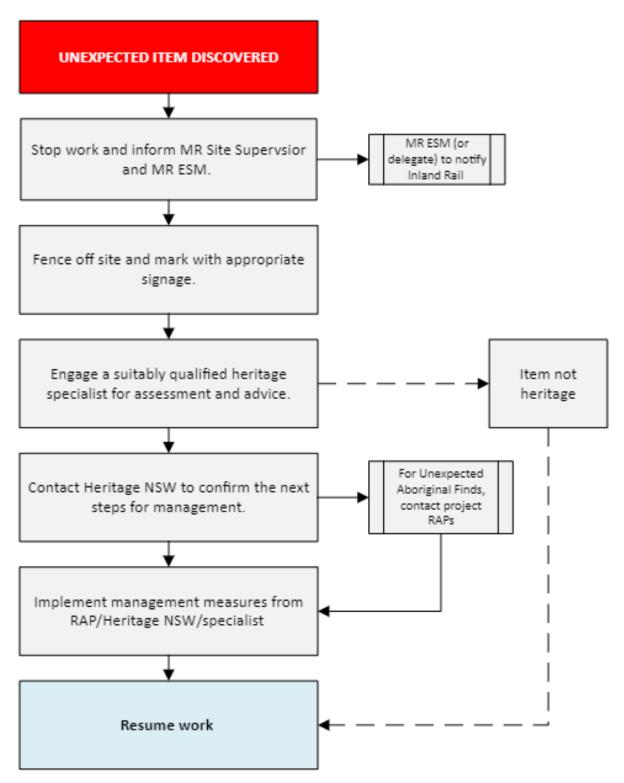
An Aboriginal artefact is anything that is the result of past Aboriginal activity. This includes stone (artefacts, rock engravings etc.), plant (culturally scarred trees) and animal bone (if showing signs of modification; i.e. smoothing, use). Human bone (skeletal remains) may also be uncovered while onsite.

A historic artefact is anything that is the result of past activity not related to Aboriginal occupation. This includes pottery, wood, glass and metal objects as well as the built remains of structures, sometimes heavily ruined.

In the event of an unexpected heritage find, the following protocol will apply:

- 1. All ground-disturbance work in the vicinity of the find must cease immediately. The Site Supervisor is to be made aware of the object(s) and is to notify the MR Construction Manager and MR ESM. The MR ESM (or delegate) will notify the relevant Inland Rail (IR) representative.
- The find will be temporarily fenced off as quickly as possible to ensure no damage/further damage to the object(s). Signage on the fencing is to state that the area is subject to environmental protection, that no ground disturbance is allowed, and should include relevant contact details for the MR ESM.
- 3. The MR ESM (or delegate) will contact a suitably qualified heritage specialist to assess the find. The heritage specialist will then determine the need for further investigation or management. The heritage specialists assessment may be undertaken using good quality images, with a scale and several angles, however, if photographic evidence does not allow for certainty, then a site visit from the suitably qualified heritage specialist will be required.
- 4. If the find is an Aboriginal object, the MR ESM (or delegate) and/or heritage specialist will contact the RAPs to attend the site to inspect the find and to determine, in consultation, the next steps for management. These measures will include registration of the object in the Aboriginal Heritage Information Management System within a reasonable time.
- 5. The MR ESM (or delegate) and/or heritage specialist will also contact Heritage NSW (phone 02 9873 8500) to confirm the next steps for management.
- 6. Ground disturbance work in the vicinity of the find can only continue under supervision of a suitably qualified heritage specialist, having regard to any advice from Heritage NSW and RAPs.





Flow Chart: Unexpected heritage finds

#### UNEXPECTED HUMAN REMAINS PROCEDURE

The procedure related to the discovery of suspected human skeletal material is based on Requirement 25 of the Code of *Practice for Archaeological Investigation of Aboriginal objects in NSW* (DECCW 2010b) and the *Skeletal Remains: Guidelines for the management of human skeletal remains under Heritage Act 1977* (NSW Heritage Office1998). A flow chart is supplied below.

If known, or suspected skeletal remains are encountered during the construction and/or operation of the project, the following procedure will be followed:

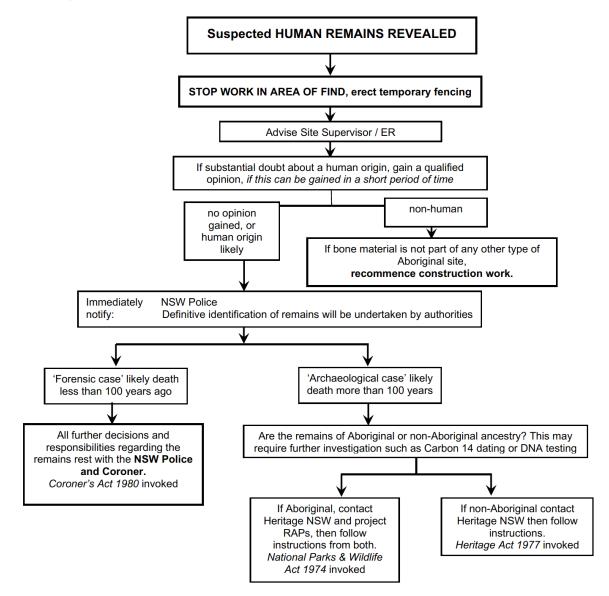
- 1. The area will be temporarily fenced immediately to ensure no damage/further damage to skeletal material. No skeletal material that remains in place should be disturbed from its location;
- 2. Works in the vicinity are to be stopped immediately;
- 3. The Site Supervisor is to be made aware of the skeletal material and is to notify the MR Environmental Manager and MR Construction Manager. Inland Rail Representatives are to be contacted at this stage;
- 4. Attempt to determine if the bones are animal or human. May require photos of the bones to be sent to the MR Heritage Consultant to determine if the remains are likely to be human or not;
- 5. If a qualified opinion concludes the bones are not human in origin and are unlikely to be part of an archaeological site works may recommence;
- 6. If no qualified opinion can be gained or the bones are suspected of being human, undertake the following:
  - i) MR will contact Police, allowing Police to conduct an assessment to determine if the remains are part of a forensic case (less than 100 years old), or are archaeological (more than 100 years old);
  - ii) If the remains are assessed as 'archaeological', there then needs to be an attempt to determine if they are Aboriginal or non-Aboriginal;
  - iii) Inland Rail will contact the relevant stakeholders, including Heritage NSW (phone 02 9873 8500) and RAPs (if the remains are Aboriginal);
  - iv) All further activities will be determined by Heritage NSW and the RAPs (if the remains are Aboriginal);
  - v) No work may recommence in the area of the find until Heritage NSW provides the approval to do so.

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#### Flow Chart: Suspected Human remains

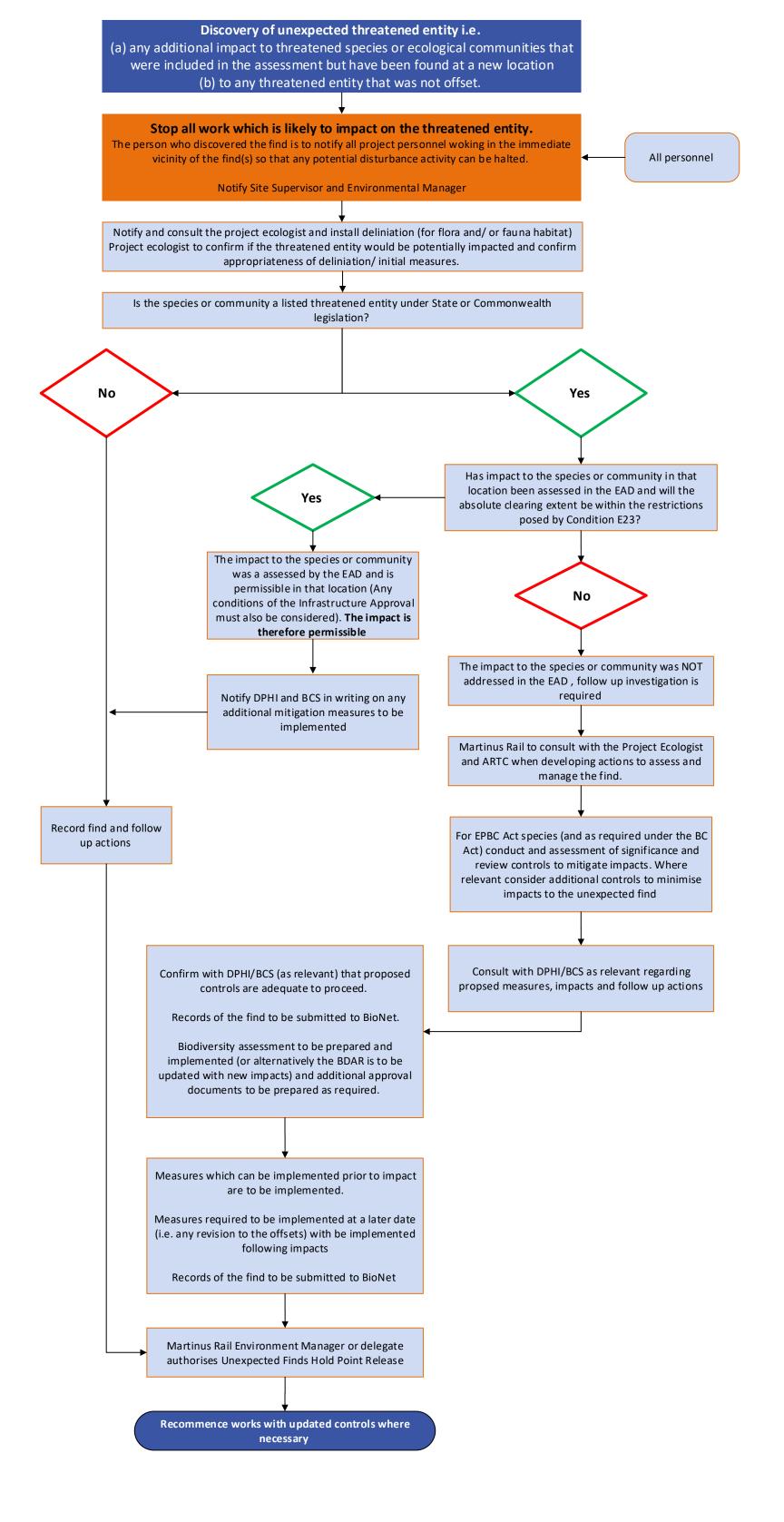




# Appendix H Unexpected Finds Procedure (Flora and Fauna)

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# **Appendix I Unexpected Finds Procedure (Contamination)**

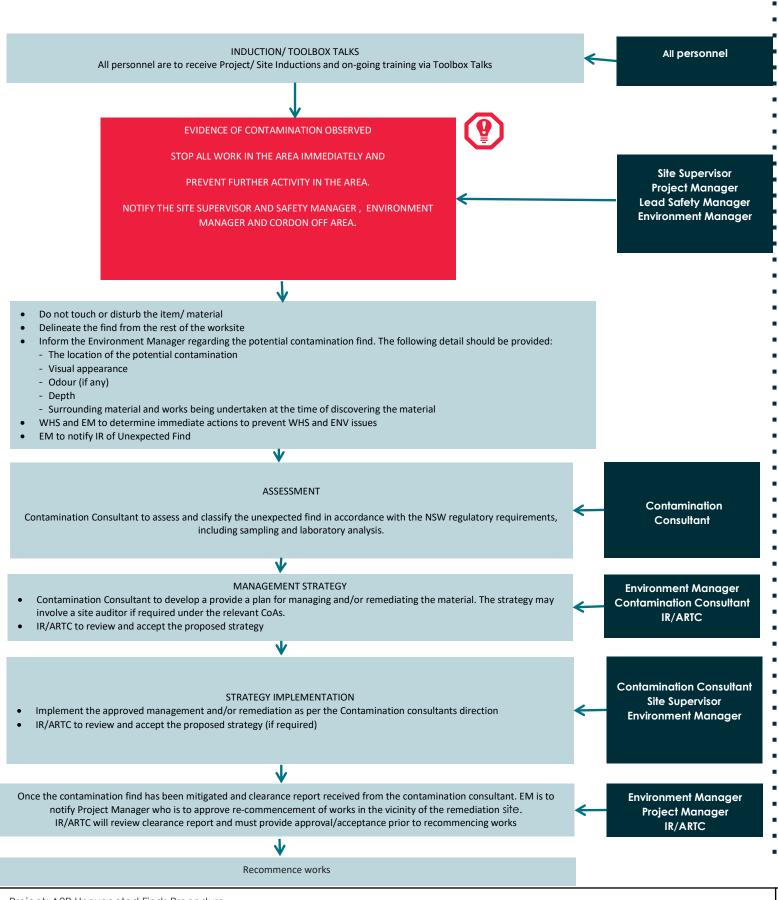
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# **UNEXPECTED FINDS PROCEDURE**

# MANAGEMENT AND RESPONSIBILITY



#### Asbestos

An unexpected find occurs when Asbestos Containing Material (ACM) not identified in the Asbestos Register is found on site. In the event of an unexpected find the below steps are to be followed:

- 1. The area is to be demarcated, works in the area to cease and workers notified
- 2. Notify the Site Supervisor first. Site Supervisor will then notify the Project Manager, Safety Manager and Environment Manager.
- Notify IR/ARTC within five (5) business days after the 3. discovery.
- 4. Control dust by with dust suppression
- A certified occupational hygienist is to be engaged to 5. provide recommendations to manage the area
- 6. Occupational hygienist arrange for testing of the suspected ACM and monitoring of the area (if required)
- 7. The area is to be made safe as per the certified



#### Procedure

- 1) Potential contaminated soil/material encountered during construction activities. STOP ALL WORK AND NOTIFY IMMEDITELY
- 2) Undertake a site/area contamination investigation. The Environment Manager (EM) is to assess the situation and if considered necessary, commission a suitably gualified contamination specialist to undertake a contamination investigation in the area of the find.
- 3) The consultation specialists in consultation with the EM will determine the appropriate management measures to be implemented. This may include leaving contamination undisturbed if it does not pose unacceptable risks to human offsite, ensure the waste facility is appropriately licensed. Contaminated material requiring off-site disposal is to be classified in accordance with the Waste Classification Guidelines – Part 1: Classification of Waste, NSW EPA 2014. Maintain records to demonstrate waste material was appropriately managed
- 4) If the material is determined to be Acid Sulfate Soil (ASS) or Potential Acid Sulfate Soil (PASS), an Acid Sulfate Soil Management Plan would be prepared and implemented in accordance with the Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee, August 1998).
- 5) Prior to any contamination investigation, management or remediation activities appropriate work method documentation encompassing safety and environmental risk management will be prepared for review and approval by the EM and IR
- 6) If required a Remedial Action Plan (RAP) will be prepared in accordance with legislative requirements
- 7) If material is to be treated and reused or left in situ ensure appropriate records are maintained and location of material (survey) is undertaken and provided to IR
- 8) Once the contamination find has been mitigated and clearance report received from the contamination consultant. This report is to be submitted to IR/ARTC for acceptance prior to recommencement of work
- 9) EM is to notify Project Manager who is to approve re-commencement of works in the vicinity of the remediation site.

Project: A2P Unexpected Finds Procedure	Revision: B
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Approved By: Gavin Murphy	Printed copies are uncontrolled

#### **Contamination Consultant**

Works undertaken in relation to Contamination to investigate, assess, remediate or validate remediation or land use suitability shall be undertaken by a suitably qualified person holding valid 'Site Contamination' certification under the Certified Environment Practitioners Scheme (CEnvP) - Environment Institute of Australia and New Zealand or Certified Professional Soil Scientist – Contaminated Site Assessment and Management under the Soil Science Australia Certification Scheme.

With relevant gualifications and experience in keeping with the National Environmental Protection (Assessment of Site Contamination) Measure 1999 Amendment 2013 (ASC NEPM 2013).

health or the environment, capping of contamination, treatment or offsite disposal. If the material is to be disposed of