

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 |

| ARTC | |
|------|--|
| | |

| | | 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

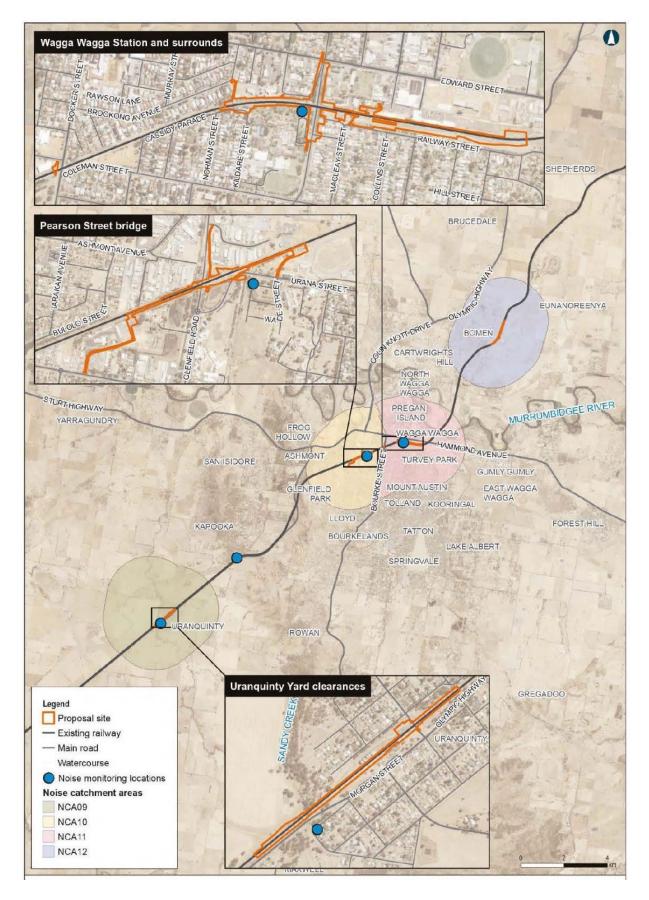


Figure 4.1: EAD showing location of NCAs at Pearson Street bridge and Cassidy Parade pedestrian bridge

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



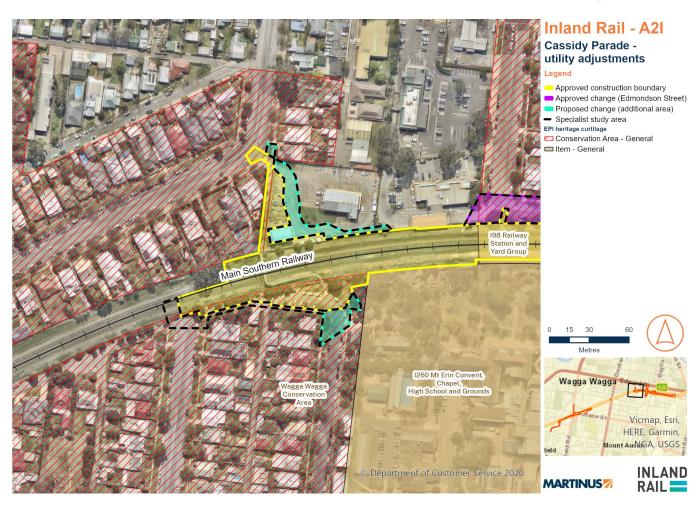


Figure 4.2: Heritage items/curtilages that intersect or are adjacent to the Proposed Change at Cassidy Parade



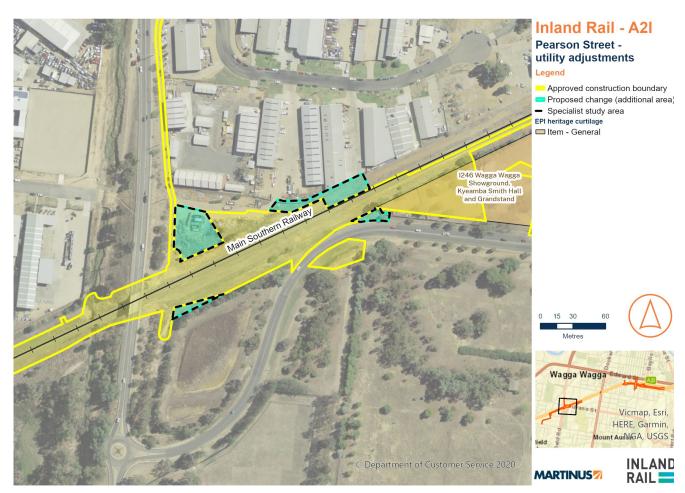


Figure 4.3: Heritage items/curtilages that intersect or are adjacent to the Proposed Change at Pearson Street

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 ¹ | 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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¹ 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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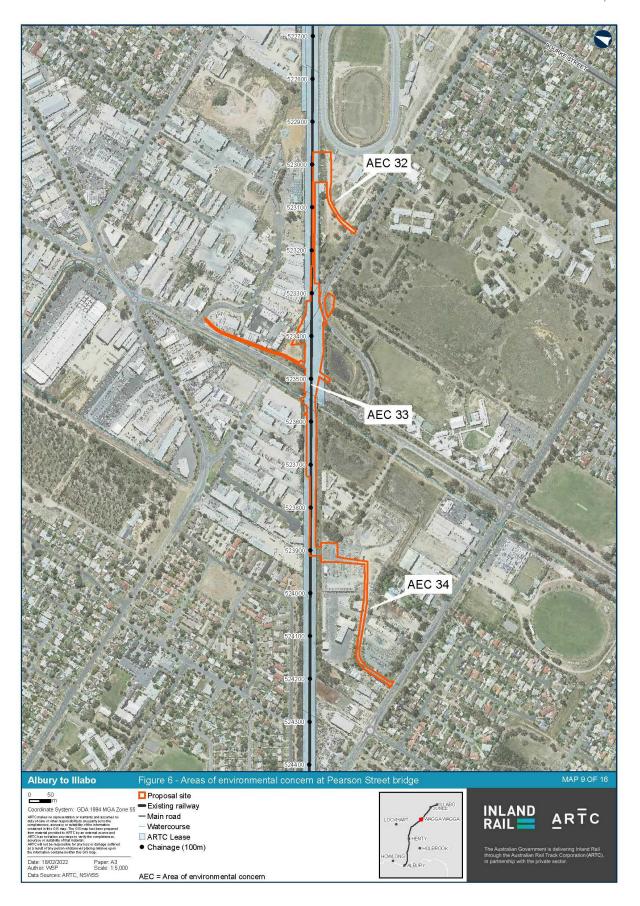


Figure 4.4: EAD showing location of AECs at Pearson Street

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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 ₁₀ (g/m ³) | 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 _{2.5} (g/m ³) | 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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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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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 | The Proponent must carry out the CSSI in accordance with the terms of this approval and generally in accordance with the: a) Inland Rail – Albury to Illabo Environmental Impact Statement (ARTC, August 2022) b) Albury to Illabo Response to Submissions (ARTC, November 2023) c) Albury to Illabo Preferred Infrastructure Report (ARTC, November 2023) d) Albury to Illabo Preferred Infrastructure Report Response to Submissions (ARTC, February 2024) e) Inland Rail – Albury to Illabo (SSI-10055) Response to request for additional information – Air Quality Assessment (letter dated 1 May 2024) f) Part 1 - Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024) g) Part 2 - Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024) | 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 | The Construction Noise and Vibration Sub-plan must include, but not limited to: a) measures to reduce construction to standard ICNG hours where sensitive land uses are likely to be noise affected for more than 3 months; b) an approach to assess and manage construction fatigue from noise impacts on sensitive receivers on an ongoing basis; 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; d) mitigation for construction traffic noise impacts from additional construction traffic and road diversions; 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 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. | 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 | Work must be undertaken during the following hours: a) 7:00am to 6:00pm Mondays to Fridays, inclusive; b) 7:00am to 6:00pm Saturdays; and c) at no time on Sundays or public holidays. | 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: | |
| | for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or | |
| | 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: | |
| | no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and | |
| | no more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land use(s); and | |
| | 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 | |
| | iii. construction that causes: | |
| | 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 | |
| | 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). | |
| | c) By Approval, including: | |
| | where different construction hours, such as those for a rail possession, are permitted under an EPL in force in respect of the CSSI; or | |
| | 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: | |
| | 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: | |
| | the ER and AA review all proposed out-of-hours activities and confirm their risk levels, | |
| | 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; | |
| | 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; | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 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 |
|-----|--|-----------------------------|
| | e) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage). | |
| | 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 |
| | 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. | |
| 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**.

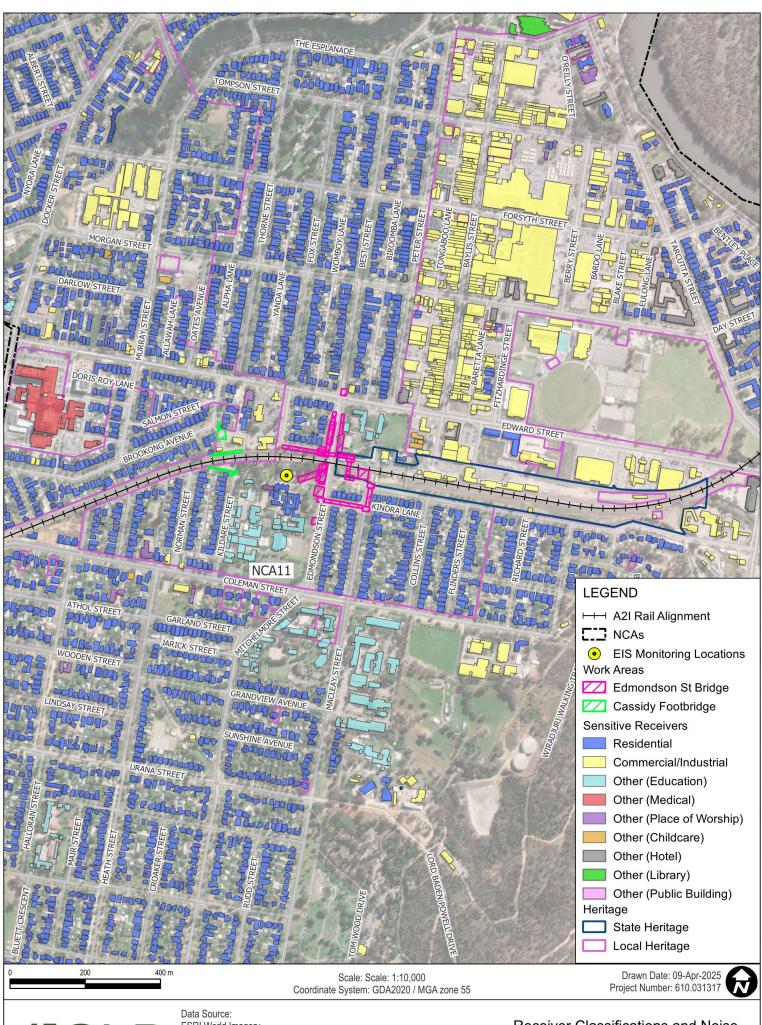
3.1 Background Noise Levels

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 ¹ | | | | | |
|---------------------------------|-----|---|----|----|--|--|--|
| 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).



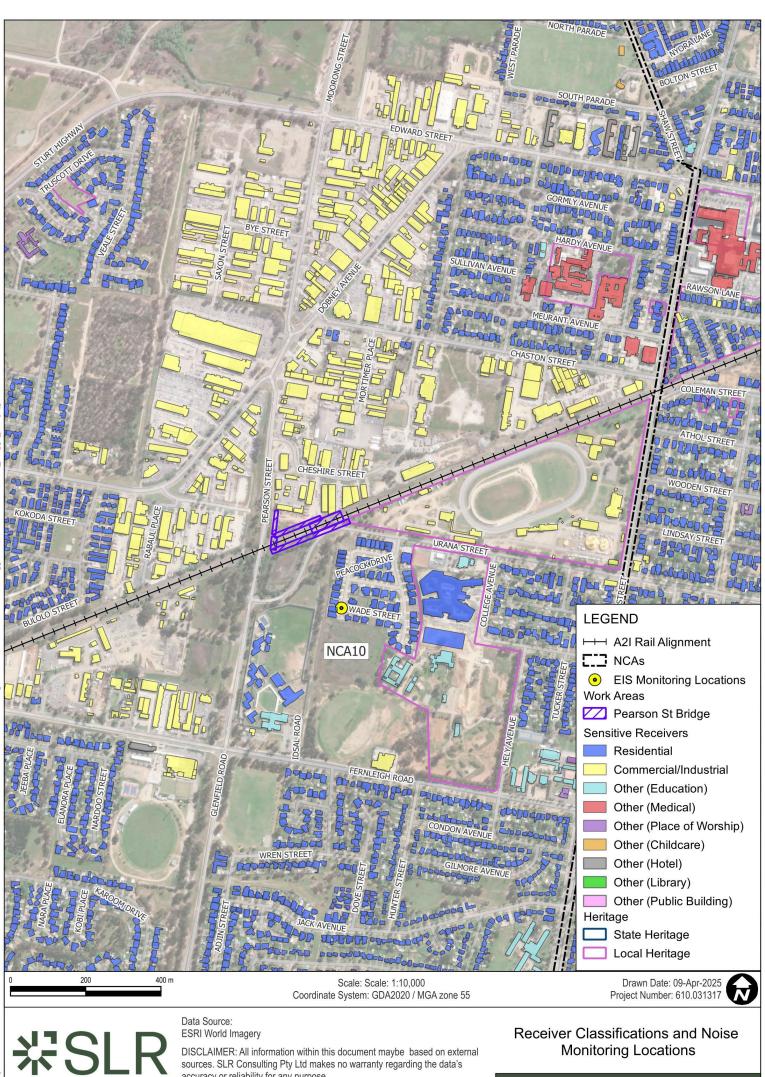
ぷSLR

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 ^{1,2} | | Out of Hours ^{1,2} | | 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_{Amax} 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 ^{1,5} | | |
| Hospital wards and operating theatres | 45 | 65 ² | | |
| Places of worship | 45 | 55 ¹ | | |
| 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 ³ | 50 | 60 ^{1,5} | | |
| Hotel – night-time ³ | 35 | 45 ^{1,5} | | |
| Child care centres – activity areas ⁴ | 40 | 50 ^{1,5} | | |
| Child care centres – sleeping areas ⁴ | 35 | 45 ^{1,5} | | |
| Library ³ | 45 | 55 ¹ | | |
| Public Building ³ | 50 | 60 ¹ | | |
| 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 ¹ Evening ² 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
Square Values for Continuous and Impulsive Vibration Acceleration (m/s²)
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 ¹ | |

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 ¹ | 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 ^{1,2} (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 ³ | 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 ¹ (DIN 4150, Group 3) | Industrial and Heavy Commercial (BS 7385) | Response (NSW EPA Guideline) ² | | | | | | |
| 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 ² | 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 _{Aeq(1hour)} 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 |
|----------|----------------------------|
|----------|----------------------------|

| ID | Scenario | Description | Total Lw | | | | | | | | |
|-------------------------|---------------------------------------|---|----------|--|--|--|--|--|--|--|--|
| Edmondson Street Bridge | | | | | | | | | | | |
| W.001 | Site Establishment/ Demobilisation | Site Compound delivery and set upHaul road constructionLaydown construction | 113 | | | | | | | | |
| W.002 | Compound Operation | Operation of the site compoundDelivery of materials/equipment | 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) | Overhead conductor installationRemoval of old poles | 109 |
| W.010 | Temporary Construction Hoarding | Temporary Construction Hoarding at South Wagga Public School | 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 | Installation of protection slab above existing gas main | 113 |
| W.014 | Utility Work – essential energy works | LV electrical and light poles removal with demolition of bridge and re-installed as required | 114 |
| W.015 | Vegetation clearing | Tree clearing and trimming during gas and electrical works | 116 |
| Pearson | Street Bridge | | |
| W.016 | Utility Work (gas & water) - investigation and excavation | Investigation and excavation prep for gas and watermain main works | 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 | Temporary safe working zones to be implemented (no permanent physical protection works required) | 103 |
| | | Installation of a protection slab above conduit | |
| W.020 | Vegetation clearing | Tree clearing and trimming during excavation and water cutover works | 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 ¹ | Evening ² | Night ³ | | |
| 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).

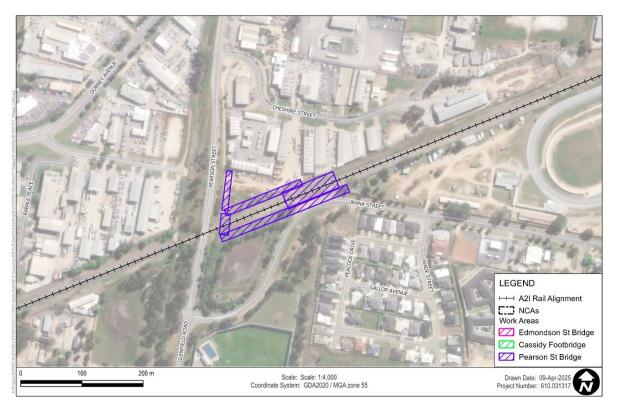
Note 4: Where works are expected to occur outside of the standard working hours, further detail around the specific work tasks, duration and justification of OOHW must be identified in the OOHW permit, required by the OOHW Protocol or EPL.





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 ¹ | | With NML exceedance (dB) ² | | | | | | | | | | | | | | | |
| | | | | 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 ¹ | | | | | | | | | With NI | ML excee | dance (dB |) ² | | | | | |
| | | | | 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 ¹ | 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**.

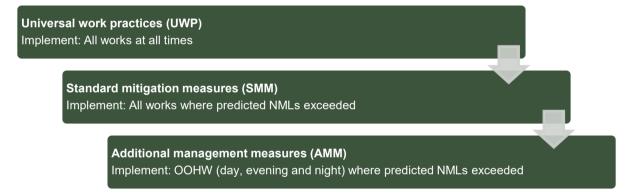
8.0 Mitigation and Management Measures

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 Section 2.2. Some unavoidable OOHW will be required due to road and rail traffic management | Best practice CoA E69 CoA E71 |
| restrictions, as outlined in Section 2.3 . | |
| 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 Section 8.5 . | |
| 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 Section 8.5 | |
| 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 Section 6.0). 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 Table 12). | |
| • 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) ¹ | CO1 |
| Communication (Category 2) ² | CO2 |
| Respite Offer ³ | 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 ¹ | 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 ¹ | CO1, CO2, RO,AO |
| | | >25 | Highly | Any | CO1, CO2, RO |
| | | | intrusive | >2 consecutive sleep periods ¹ | 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 | | · | | |
| Edmondson Street Bridge 6 Little Best St, Wagga Wagga 96 Railway St, Turvey Park Kildare Catholic College Cassidy Footbridge 2 Kildare St, | based noise monitoring ga St, olic | Confirming that actual noise levels are consistent with predicted noise impacts and that the effectiveness of actions and mitigation measures implemented are satisfactory In response to a noise related complaint(s) (determined on a case-by-case basis) Following implementation of mitigation measures or noise attenuation because of exceedance of predicted noise levels | 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 | Spot checks would be carried out as required on a case-by-case basis, such as In response to a specific noise related complaint and During noise verification monitoring when it is possible to isolate the noise from one piece of plant or equipment. | case-by-case basis | |
| Vibration Monitoring | | | | |
| Edmondson Street Bridge 2 Donnelly Ave, Wagga Wagga 96 Railway St, Turvey Park 23 MacLeay St, Turvey Park Pearson Street Bridge 10 Cheshire St, Wagga Wagga | Activities based vibration monitoring | Confirming that vibration levels are below criteria and that the effectiveness of actions and mitigation measures implemented are satisfactory In response to a vibration related complaint(s) (determined on a case-by-case basis) | 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 2×10^{-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

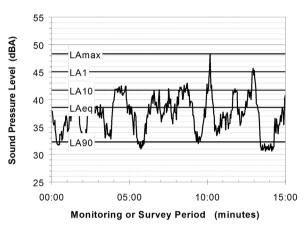
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit 10^{-12} W.

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.

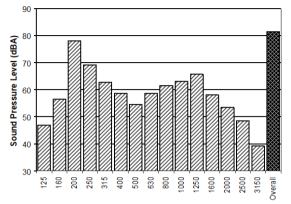
The units for frequency are Hertz (Hz), which represent the number of cycles per second.

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

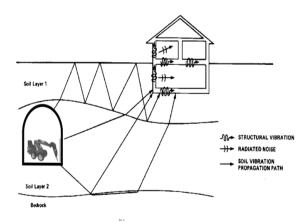
People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience 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) ² | Total Lw (dBA) | 60 Articulated Dump Truck | 0 Backhoe (with auger) | 50 Chainsaw ¹ | 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 ¹ | Front End Loader | 6 Generator - attenuated | Grader 601 | Grinder ¹ | 100 Hand tools (electric) | ର Light Vehicle | Plate Compactor | Positrack | 101 Loller - static | 81 Saw – Concrete ¹ | Tracked Hydraulic Drilling Rig ¹ | 103 Truck - Medium Rigid | Truck - road truck / Truck & Dog | 100 Truck - Vacuum (NDD) | 11 Tub Grinder/Mulcher ¹ | 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

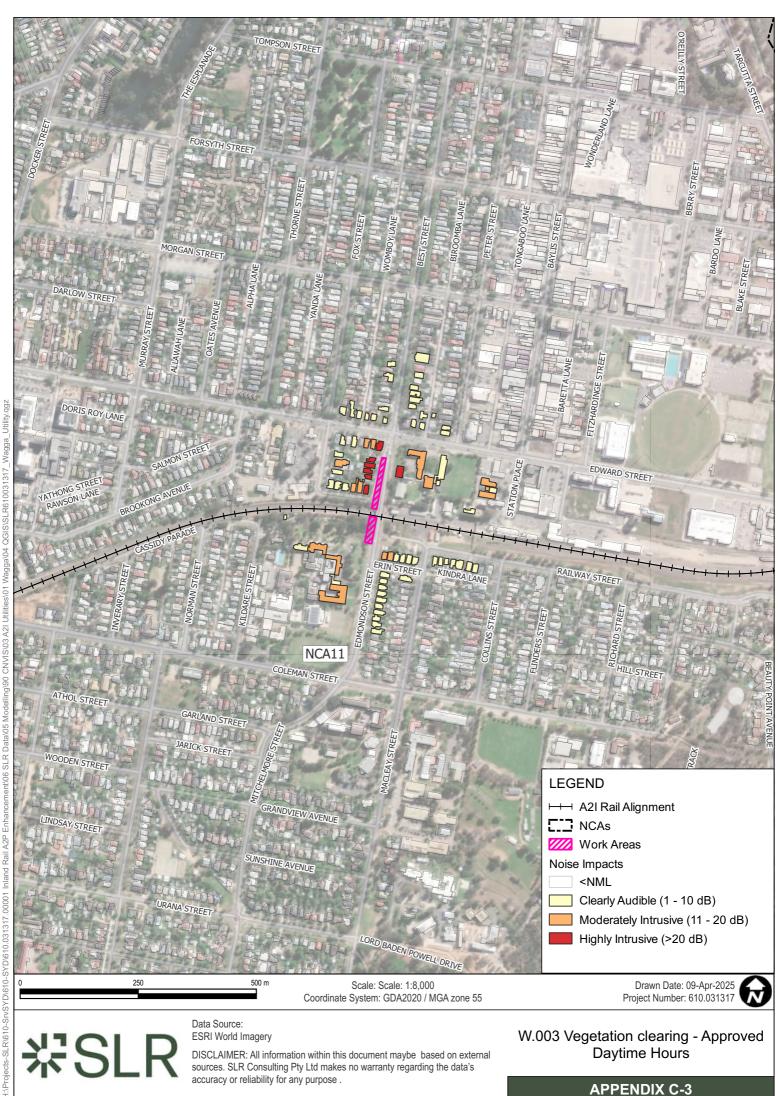




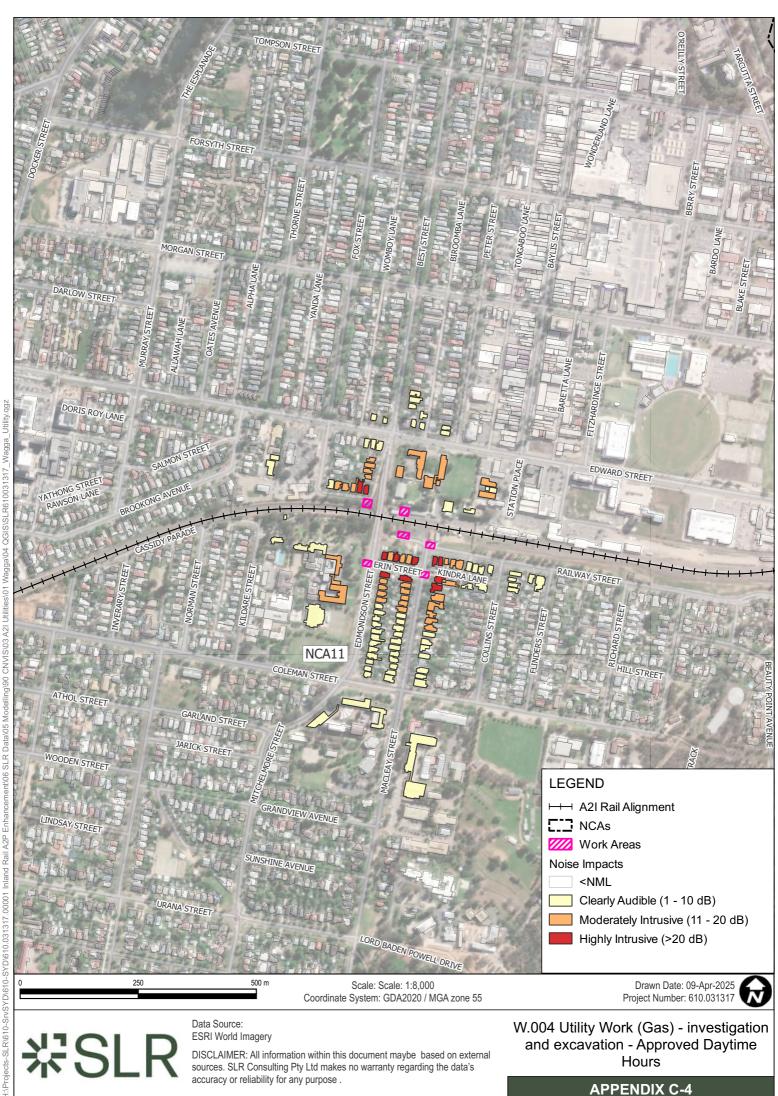
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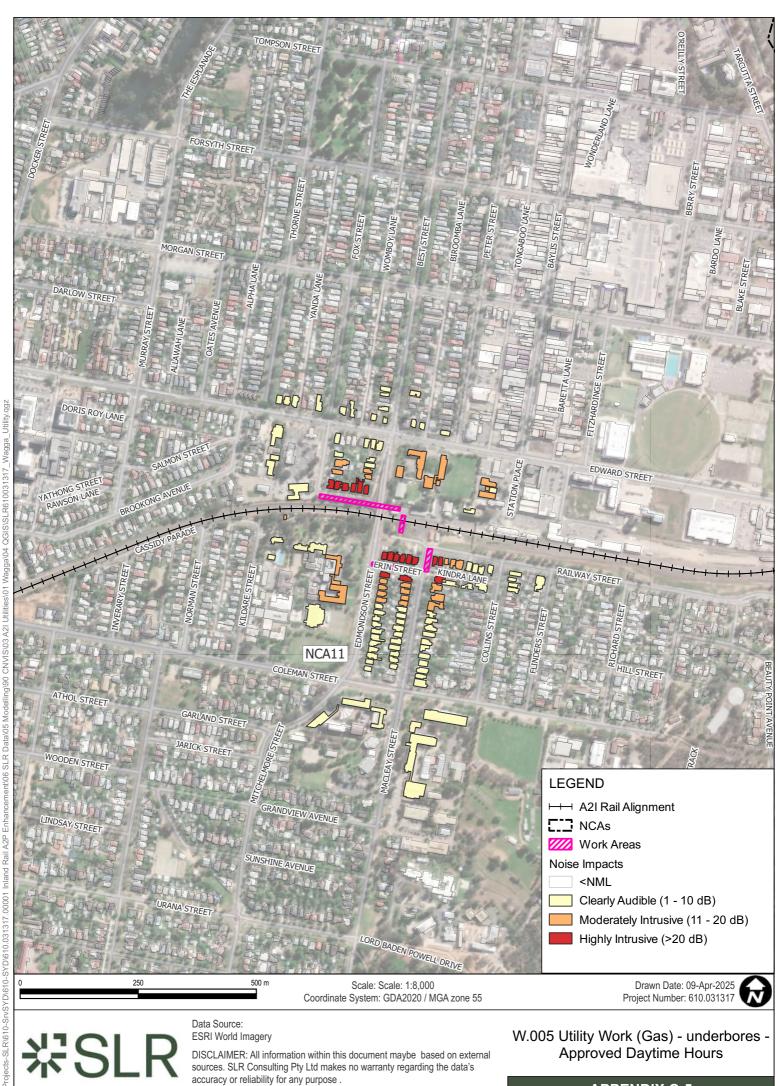
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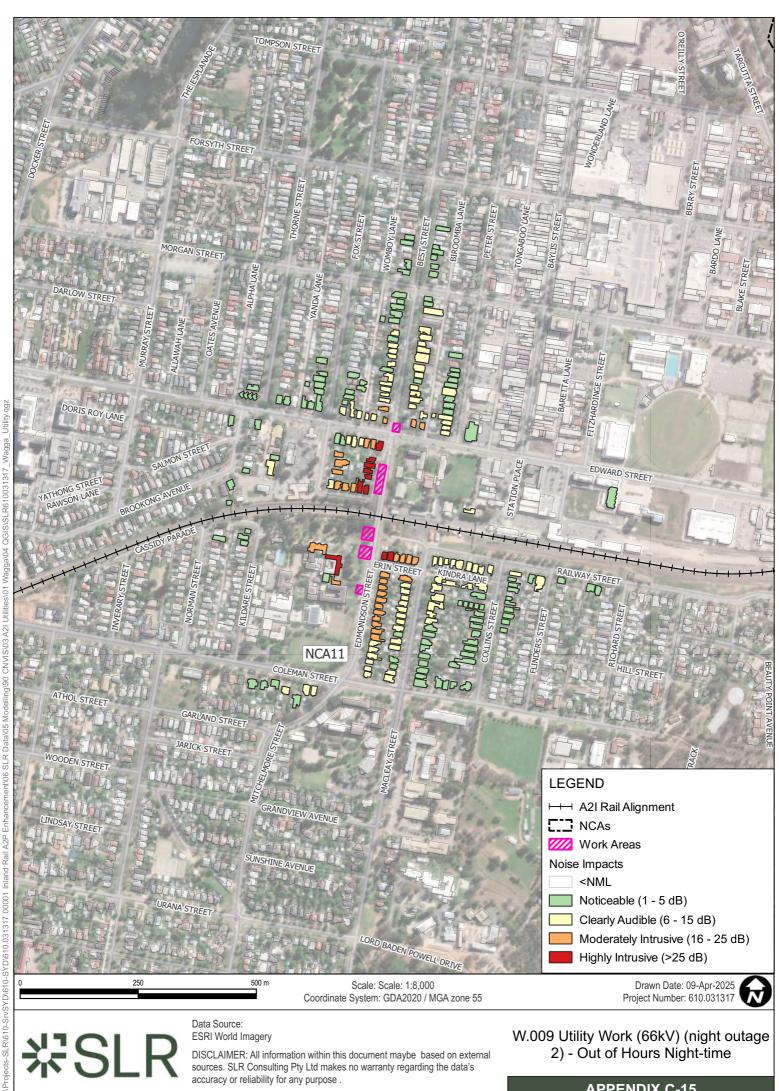
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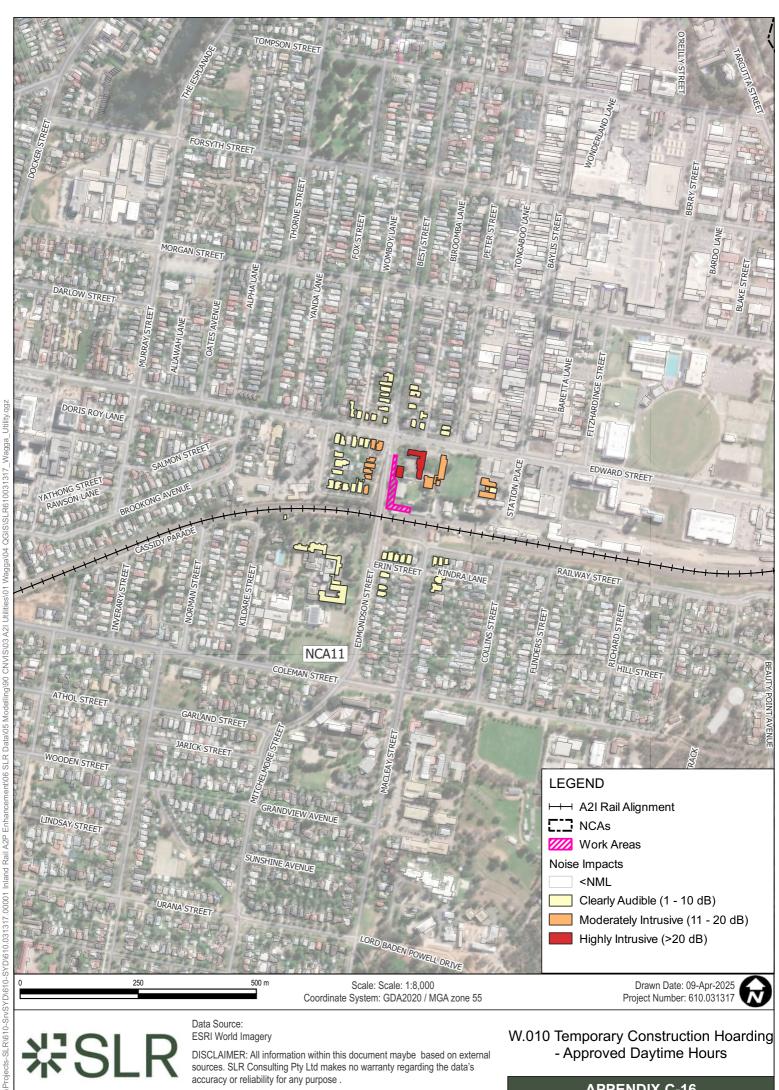
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W.009 Utility Work (66kV) (night outage 2) - Out of Hours Night-time







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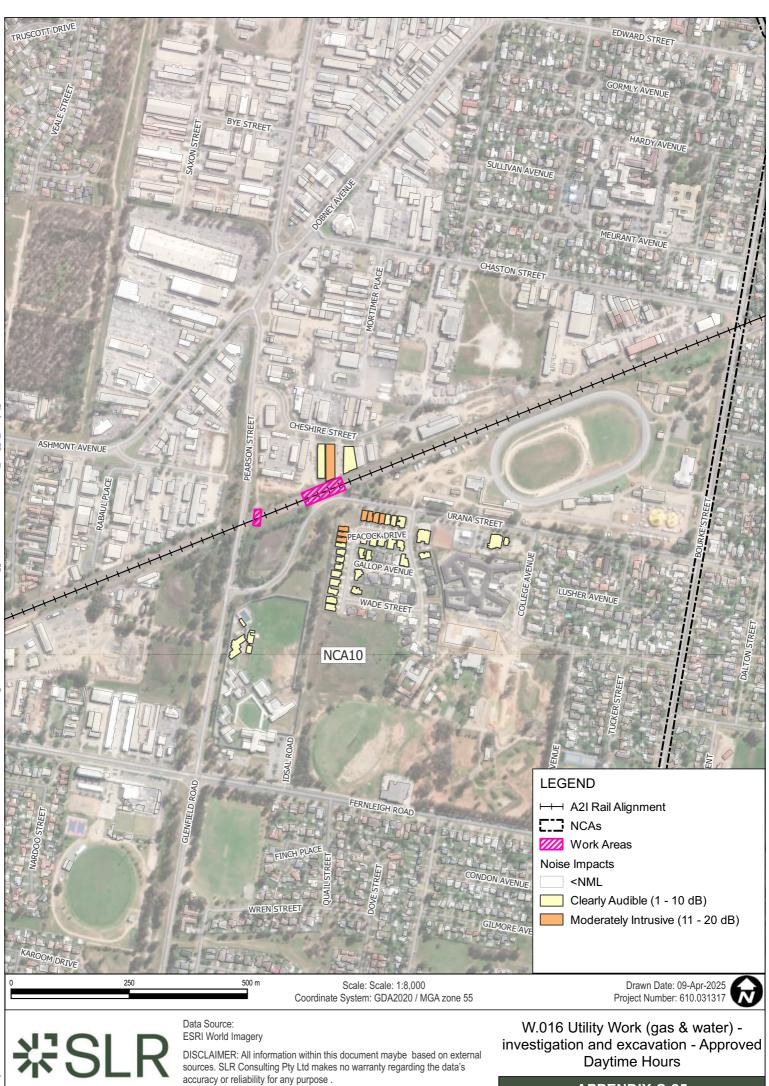
W.014 Utility Work - essential energy work - Out of Hours Evening

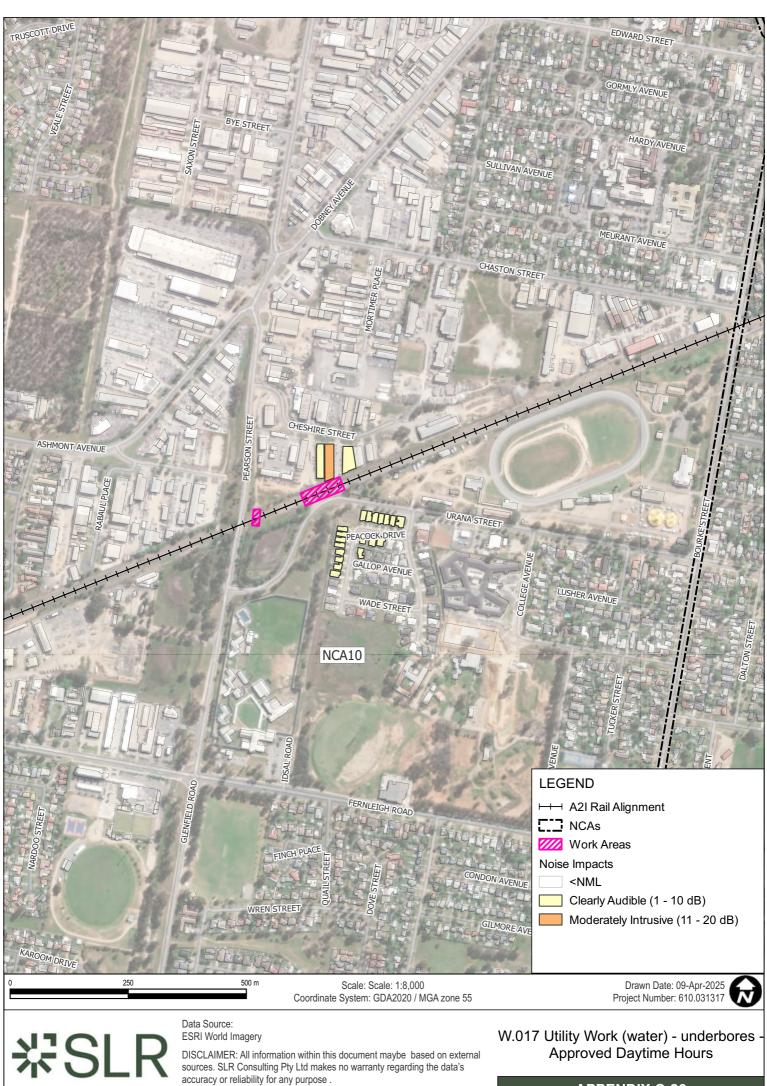


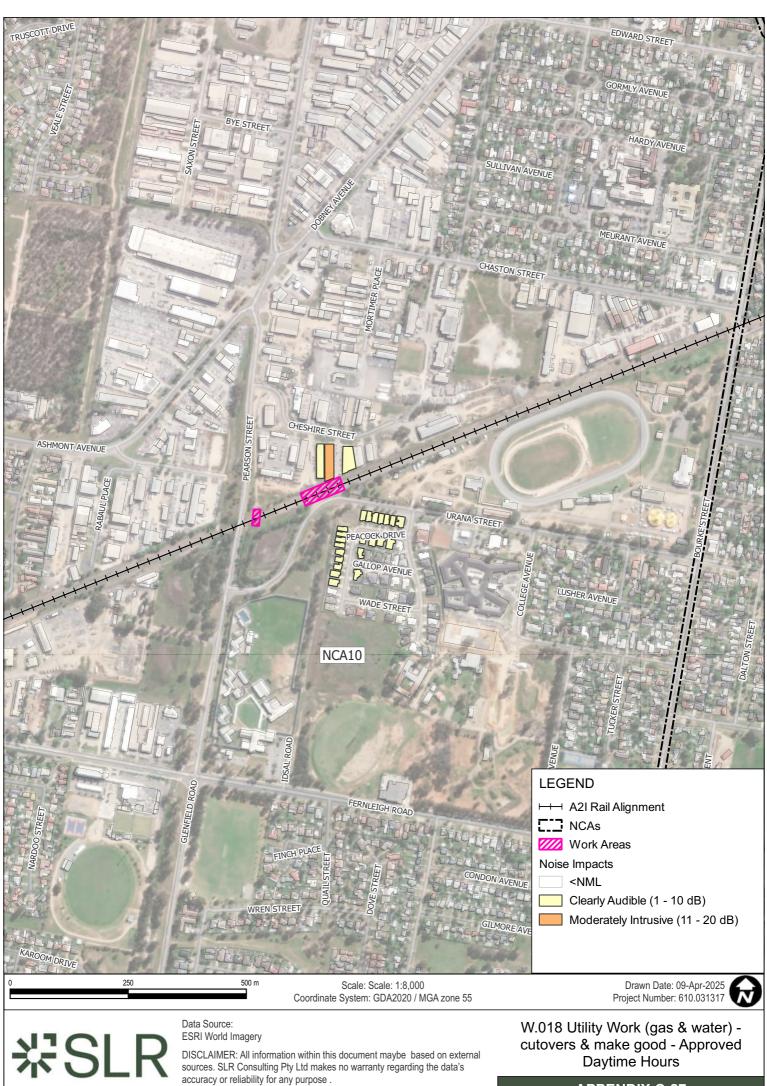
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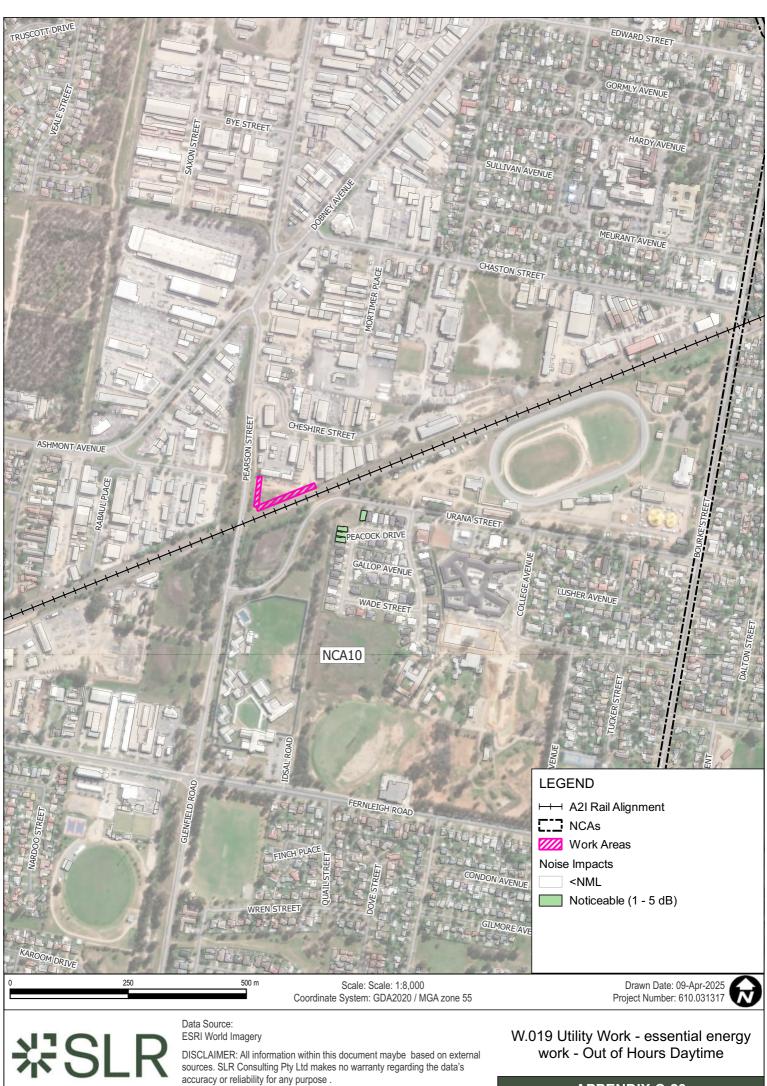


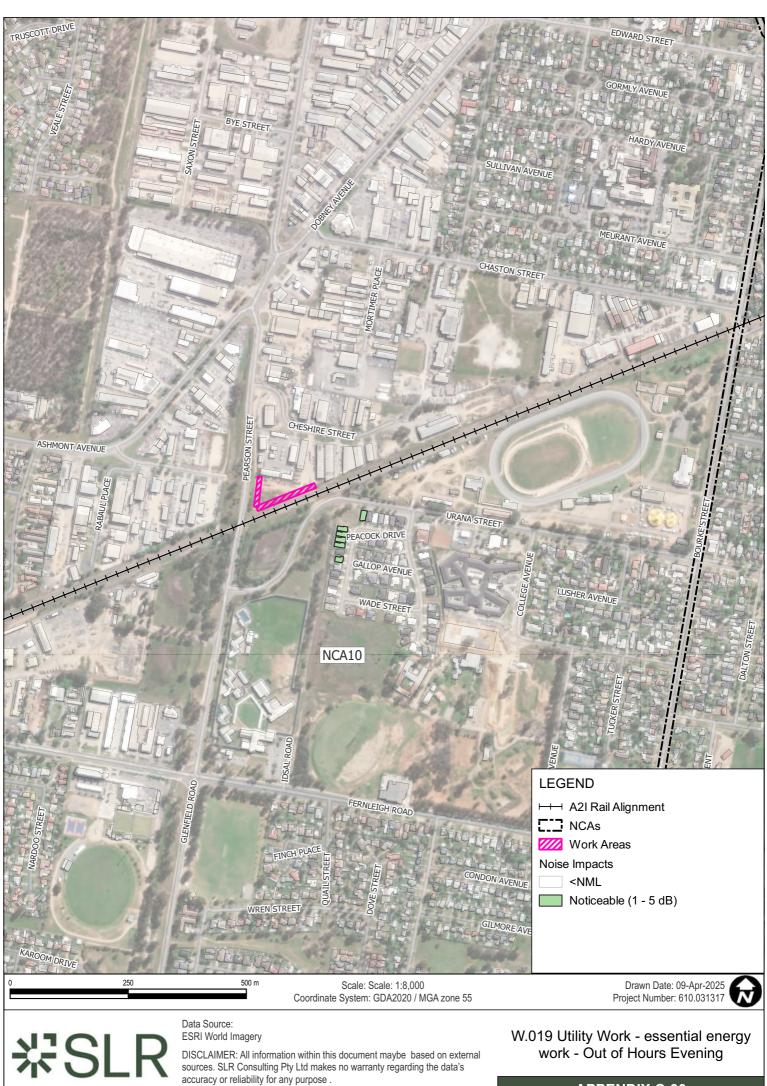


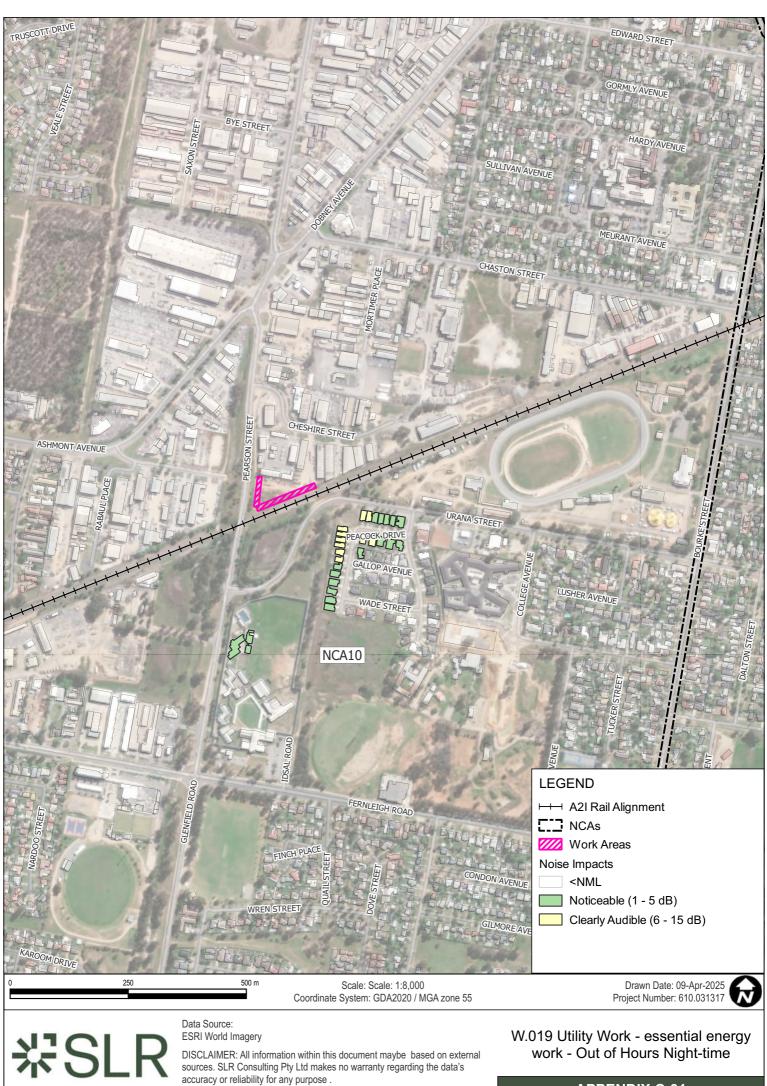


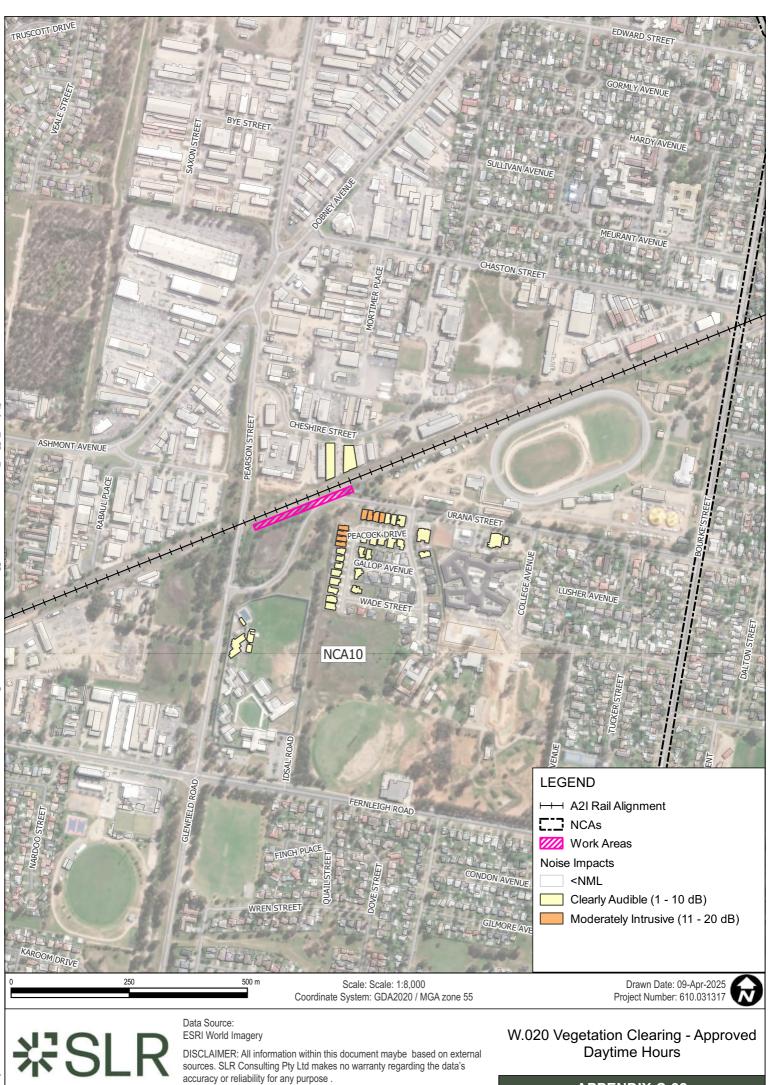
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Appendix D Receivers Triggering Additional Mitigation

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 |
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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 | NORMAN ST, TURVEY PARK NSW 2650 NORMAN ST, TURVEY PARK NSW 2650 NORMAN ST, TURVEY PARK NSW 2650 KILDARE ST, TURVEY PARK NSW 2650 BROOKONG AV, WAGGA WAGGA NSW 2650 DROOKONG AV, WAGGA WAGGA NSW 2650 DROOKONG AV, WAGGA WAGGA NSW 2650 DI STATION PL, WAGGA WAGGA NSW 2650 | 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 |
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| 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 | 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 | 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 | 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 | - - | - - - - - - - - - - - - - - - - - - - | 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 |
| 213818 60 COLEMA 213828 29 COLEMA 213828 29 COLEMA 213831 61-53 MACLEA 213834 34 MACLEA 213836 33 EDMONE 213970 32 MACLEA 213970 32 MACLEA 213970 32 MACLEA 213970 32 MACLEA 214007 31 EDMONE 214029 30 MACLEA 214077 29 EDMONE 214029 30 MACLEA 214075 29 EDMONE 214026 24 SOLULINS 214111 28 MACLEA 214056 43 MACLEA 214156 43 MACLEA 214151 43 MACLEA 214156 43 MACLEA 21425 50 COLLINS 21428 48 COLLINS 21428 48 COLLINS 21428 49 MACLEA 214373 22 EDMONE 21428 40 COLLINS 21428 41 COLLINS 214428 18 MACLEA 214471 41 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214489 17 EDMONE 21459 17 EDMONE 21459 16 MACLEA 214571 46 COLLINS 21459 16 MACLEA 214571 46 COLLINS 21459 16 MACLEA | N ST, TURVEY PARK NSW 2650 EAY ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SOON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y 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 | 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 44 45 48 45 52 50 45 53 47 46 | • • • • • • • • • • • • | - - - - - - - - - - - - - - - - - - - | C01 |
| 213831 61-53 MACL 213884 34 MACLEA 213986 33 MACLEA 213980 33 EDMONE 213970 32 MACLEA 213970 32 MACLEA 213970 32 MACLEA 213970 32 MACLEA 214007 31 EDMONE 214002 30 MACLEA 214007 5 29 EDMONE 214022 45 MACLEA 214075 29 EDMONE 214026 45 MACLEA 214075 29 EDMONE 214026 45 MACLEA 214111 28 MACLEA 214156 43 MACLEA 214156 43 MACLEA 21423 52 EDMONE 214258 450 COLLINS 214284 50 COLLINS 214284 50 COLLINS 214284 50 COLLINS 214284 50 COLLINS 214284 50 COLLINS 214284 20 MACLEA 214373 21 EDMONE 214328 22 MACLEA 214373 21 EDMONE 214328 22 MACLEA 214373 21 EDMONE 214328 48 COLLINS 214482 18 MACLEA 214417 44 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214482 18 MACLEA 214471 42 COLLINS 214489 17 EDMONE 214591 16 MACLEA 214591 16 MACLEA 214591 16 MACLEA | EAY ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SON 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 SON 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 | 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 48 45 52 50 45 53 47 46 | • • • • • • • • • • • • | - - - - - - - - - - - - - - - - - - - | C01 C01 C01 C01 C01 C01 C01 C01 |
| 213884 34 MACLEA 213918 49 MACLEA 213918 49 MACLEA 213920 33 EDMONE 213970 32 EDMONE 213970 32 MACLEA 213904 47 MACLEA 214075 30 MACLEA 214075 29 EDMONE 214075 29 EDMONE 214264 20 ALL 214171 35 EDMONE 214264 50 COLLAR 214264 30 MACLEA 214320 39 MACLEA 214373 21 EDMONE 214382 48 COLLAR 21439 48 COLLAR 214471 41 COLLINS 214448 18 MACLEA 214471 41 COLLINS 214448 18 MACLEA 214471 41 COLLINS 214448 19 EDMONE 214448 18 MACLEA 214451 42 COLLINS 214459 17 EDMONE 214591 16 MACLEA 214591 16 MACLEA 214591 16 MACLEA 214551 39 COLLINS | Y ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SION ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SION ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SION ST. TURVEY PARK NSW 2650 SI SION ST. TURVEY PARK NSW 2650 SI ST. SI ST. SI | 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 | 48 45 52 50 45 53 47 46 | - - - - - | - - - - - C01 | C01 C01 C01 C01 C01 C01 |
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| 213994 47 MACLEA 214073 15 EDMOND 214029 30 MACLEA 214075 29 EDMOND 214028 30 MACLEA 214075 29 EDMOND 214082 54 COLLA 214075 29 EDMOND 214082 54 COLLA 214112 28 MACLEA 214113 28 MACLEA 214113 28 MACLEA 214132 48 COLLA 21428 40 MACLEA 21428 40 MACLEA 21428 40 MACLEA 21430 29 MACLEA 21432 39 MACLEA 21432 39 MACLEA 21432 22 MACLEA 21432 39 MACLEA 21432 39 MACLEA 21432 39 MACLEA 21432 39 MACLEA 21432 39 MACLEA 21432 39 MACLEA 21434 48 COLLAN 21444 10 COLLAN 214449 18 MACLEA 21447 35 MACLEA 214461 20 LANCEA 214461 42 COLLINS 214462 18 MACLEA 214461 30 MACLEA 214461 30 MACLEA 214461 42 COLLINS 214463 19 COLLAN 214461 42 COLLINS 214463 19 COLLINS 214463 19 COLLINS 214463 19 COLLINS 214451 30 COLLINS | Y ST. TURVEY PARK NSW 2650 SSON ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SSON ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 SSON ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 SSON ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 SSON ST. TURVEY PARK NSW 265 | 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 | 52 52 52 52 52 52 52 52 52 52 52 | 42 42 42 42 42 42 42 42 | 45 53 47 46 | - | - - CO1 | CO1 |
| 214007 31 EDMONE 214028 30 MACLEA' 214082 45 MACLEA' 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214075 29 EDMONE 214192 54 COLLINS 214192 54 COLLINS 214193 25 EDMONE 214254 50 COLLINS 214254 50 COLLINS 214254 50 COLLINS 214254 50 COLLINS 214254 30 COLLINS 214264 20 COLLINS 214302 30 COLLINS 214302 30 COLLINS 214407 31 COLLINS 214443 19 EDMONE 214447 19 EDMONE 214447 19 EDMONE 214447 19 EDMONE 214447 19 EDMONE 214467 19 TEDMONE 214459 11 COLLINS 214519 17 EDMONE 214557 13 30 COLLINS | SON ST, TURVEY PARK NSW 2650 Y 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 ST, TURVEY PARK NSW 2650 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 SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 Y ST, TURVEY Y NSW Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 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 | 52 52 52 52 52 52 52 52 52 52 | 42 42 42 42 42 | 53 47 46 | - | CO1 | |
| 214062 45 MACLEA 214075 29 EDMOND 214092 54 COLLINS 214075 29 EDMOND 214092 54 COLLINS 214173 35 200LLINS 214154 27 EDMOND 214254 30 COLLINS 214254 50 COLLINS 214254 50 COLLINS 214254 50 COLLINS 214254 50 COLLINS 214254 21407 23 EDMOND 214254 24 AUACLEA 214307 23 EDMOND 214320 29 MACLEA 214373 21 EDMOND 214350 214451 24 COLLINS 214443 19 EDMOND 214452 14572 44 COLLINS 214443 19 EDMOND 214452 14572 44 COLLINS 214451 24 COLLINS 214451 24 COLLINS 214451 19 COLLINS 214551 91 7E DMACLEA 214571 44 COLLINS 214551 91 7E DMACLEA 214571 47 35 MACLEA 214571 47 35 MACLEA 214571 91 7E DMACLEA 214571 917 | Y ST. TURVEY PARK NSW 2650 SON ST. TURVEY PARK NSW 2650 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 SON 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 SON ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 | 58 58 58 58 58 58 58 58 58 58 58 58 58 5 | 53 53 53 53 53 53 53 53 53 53 | 52 52 52 52 52 52 52 52 | 42 42 42 | 46 | | | CO1 |
| 214092 64 COLLINS 214111 28 MACLEA 214156 43 MACLEA 214156 43 MACLEA 214156 43 MACLEA 214173 52 COLLINS 214254 50 COLLINS 214258 41 MACLEA 214307 23 EDMONE 214264 124 MACLEA 214307 23 EDMONE 214320 29 MACLEA 214307 23 EDMONE 214328 48 COLLINS 214382 48 COLLINS 214382 44 COLLINS 21439 41 COLLINS 214497 41 COLLINS 214497 41 COLLINS 214497 41 COLLINS 214497 18 MACLEA 214497 19 TEDMONE 214492 18 MACLEA 214512 142 COLLINS 214519 17 EDMONE 214591 17 EDMONE 214551 39 COLLINS 214551 39 COLLINS | ST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 ISON ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 IST, TURVEY PARK NSW 2650 IST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 IST, IST, IST, IST, IST, IST, IST, IST, | 58 58 58 58 58 58 58 58 58 58 58 58 58 5 | 53 53 53 53 53 53 53 53 | 52 52 52 52 | 42 | | - | - | CO1 CO1 |
| 214111 28 MACLEA 214156 27 EDMOND 214156 43 MACLEA 214173 52 COLLINS 214253 25 EDMOND 214254 50 COLLINS 214254 50 COLLINS 214254 50 COLLINS 214258 41 MACLEA 214264 24 MACLEA 214307 23 EDMOND 214320 39 MACLEA 214307 32 EDMOND 214320 39 MACLEA 214373 21 EDMOND 214320 39 MACLEA 214373 21 EDMOND 214324 20 MACLEA 214471 34 COLLINS 214482 18 MACLEA 214471 44 COLLINS 214482 18 MACLEA 214512 42 COLLINS 21459 17 EDMOND 21459 16 MACLEA 214519 16 MACLEA | Y ST, TURVEY PARK NSW 2650 SSON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 SSON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 | 58 58 58 58 58 58 58 58 58 58 58 58 58 5 | 53 53 53 53 53 53 53 | 52 52 52 | | 54 45 | CO1 | CO1 - | CO1 CO1 |
| 214156 43 MACLEA 21423 25 EDMONE 21423 25 EDMONE 214284 30 COLLINS 214284 41 MACLEA 214284 41 MACLEA 214284 41 MACLEA 214307 23 EDMONE 214307 23 EDMONE 214307 23 EDMONE 214324 82 COLLINS 214328 42 COLLINS 214323 21 EDMONE 214407 37 MACLEA 214407 37 MACLEA 214407 40 COLLINS 214448 19 EDMONE 214467 41 COLLINS 214482 18 MACLEA 214519 17 EDMONE 21459 16 MACLEA 214519 16 MACLEA 214551 39 COLLIS | Y ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 SON 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 Y ST, TURVEY PARK NSW 2650 | 58 58 58 58 58 58 58 58 58 58 | 53 53 53 53 | 52 | 42 42 | 45 55 | - CO1 | - CO1 | CO1 CO1 |
| 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 |
| 214258 41 MACLEA 214268 24 MACLEA 214307 23 EDMONE 214320 39 MACUEA 214320 39 MACUEA 214324 48 COLLINS 214338 22 MACLEA 214373 21 EDMONE 214407 37 MACLEA 214417 44 COLLINS 214443 19 EDMONE 214442 18 MACLEA 214512 42 COLLINS 214549 17 EDMONE 214557 13 MACLEA 214551 39 CALLEA | Y ST, TURVEY PARK NSW 2650 YST, TURVEY PARK NSW 2650 YSON 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 | | 52 52 | 42 42 | 44 56 | - CO1 | - CO1 | CO1 CO1 |
| 214264 24 MACLEA 214307 23 EDMOND 214320 39 MACLEA 214328 48 COLLINS 214338 22 MACLEA 214373 21 EDMOND 214407 37 MACLEA 214407 37 MACLEA 214417 44 COLLINS 214448 19 EDMOND 214458 14 COLLINS 214482 18 MACLEA 214512 42 COLLINS 21459 17 EDMOND 21459 16 MACLEA 21451 39 COLLINS 21459 30 MACLEA | Y ST. TURVEY PARK NSW 2650 SON ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 SON ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 Y ST. TURVEY PARK NSW 2650 | 58 58 58 | | 52 52 | 42 42 | 45 46 | - | - | CO1 CO1 |
| 214320 39 MACLEA 214324 48 COLLINS 214338 22 MACLEA 214407 37 MACLEA 214407 37 MACLEA 214410 20 MACLEA 214410 20 MACLEA 214417 44 COLLINS 214482 18 MACLEA 21459 17 EDMOND 21459 17 EDMOND 21459 16 MACLEA 21457 19 MACLEA 21457 30 MACLEA | Y ST, TURVEY PARK NSW 2650 ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 DSON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 | 58 | 53 53 | 52 | 42 | 48 | - | - | CO1 |
| 214324 48 COLLINS 214338 22 MACLEA 214373 21 EDMONDE 214407 37 MACLEA 214410 20 MACLEA 214410 20 MACLEA 2144142 18 EDMONDE 214442 18 EDMONDE 214459 41 COLLINS 214459 14 EDMONDE 214459 17 EDMONDE 214571 42 COLLINS 214579 17 EDMACLEA 214559 17 EDMACLEA 214551 39 COLLINS 214559 30 MACLEA | ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 DSON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 | 58 | 53 53 | 52 52 | 42 42 | 57 47 | - CO1 | - CO1 | CO1 CO1 |
| 214373 21 EDMONE 214407 37 MACLEA 214410 20 MACLEA 214417 44 COLLINS 214437 44 COLLINS 214459 41 COLLINS 214459 41 COLLINS 214459 41 COLLINS 214459 145 COLLINS 214567 35 MACLEA 21457 13 GOALEA 214567 33 MACLEA | DSON ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 Y ST, TURVEY PARK NSW 2650 | 58 | 53 53 | 52 52 | 42 42 | 47 49 | - | - | CO1 CO1 |
| 214410 20 MACLEA 214417 44 COLLINS 214443 19 EDMONL 214445 19 EDMONL 214489 41 COLLINS 214482 18 MACLEA 214481 35 MACLEA 214512 42 COLLINS 214519 16 MACLEA 214551 39 COLLINS 214551 33 MACLEA | Y ST, TURVEY PARK NSW 2650 | 58 | 53 | 52 | 42 | 58 | - CO1 | - CO1 | CO1, CO2, (RO,AO)* |
| 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 |
| 214549 16 MACLEA 214551 39 COLLINS 214557 33 MACLEA | ST, TURVEY PARK NSW 2650 SON ST, TURVEY PARK NSW 2650 | 58 58 | 53 53 | 52 52 | 42 42 | 44 60 | - CO1 | - CO1 | CO1 CO1, CO2, (RO,AO)* |
| 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) ² CO1 CO1, CO2, (RO,AO)* |
| 1111/58 | THEDARE ST, TURVET PARK NOW 2000 | 00 | 53 | 52 | 42 | 00 | 1001 | 1001 | 001, 002, (RU,AU) |

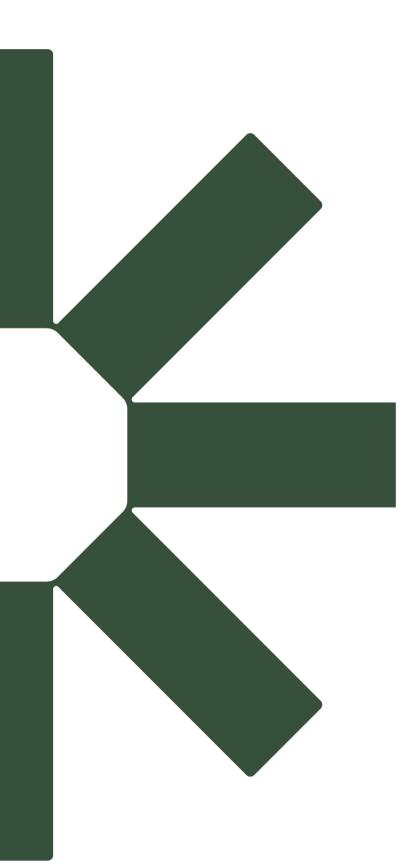
| | W.014 Ut | ility Work - essential energy work | | | | | | | | |
|--|------------------|--|----------|-------------|----------|------------|-------------|---------------|---------------------------------------|---------------------------------|
| NUM NUMB Point NUMB NUMB NUMB N | | | | | | | | | Additional 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>*(>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 ¹ | | | | | | | | | With NM | /L excee | dance (dB | 5) ² | | | | | |
| | | | | 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 ¹ | | | | | | | | | With N | ML excee | dance (dB |) ² | | | | | |
| | | | | 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 ¹ | ¹ With NML exceedance (dB) ² | | | | | | | | | | | | | | | | |
| | | | | 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 ¹ | | | | | | | | | With NM | ML excee | dance (dB | 6) ² | | | | | |
| | | | | 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

145 Wingewarra St (PO Box 2069) Dubbo NSW 2830

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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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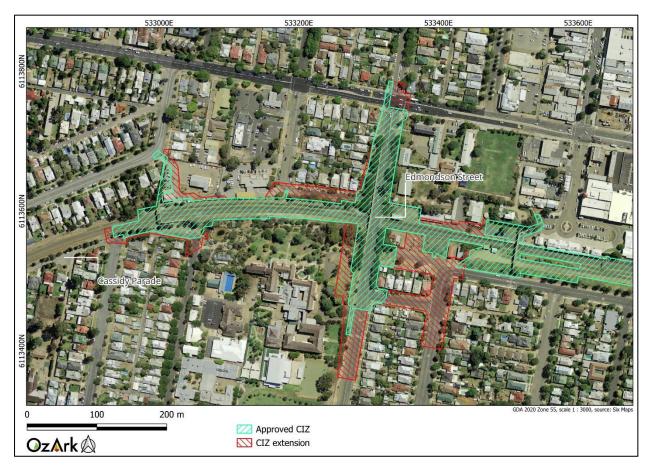
1 INTRODUCTION

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 8th 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.



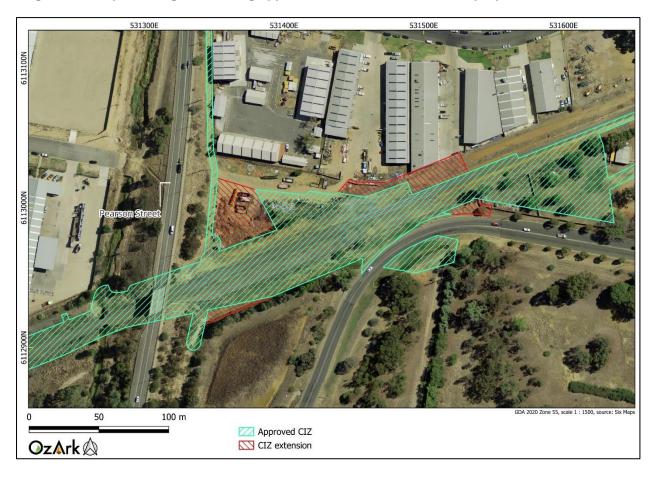


Figure 1-2. Map showing the existing approved Pearson Street CIZ and proposed CIZ extension.

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**.

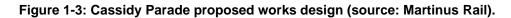
The GML study assessed both direct historic heritage impacts within the approved CIZ boundary and indirect impacts to listed historic heritage located adjacent to and within 200 metres (m) of the CIZ boundary. As the assessment beyond the approved CIZ boundary was in relation to indirect impacts (e.g. 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.

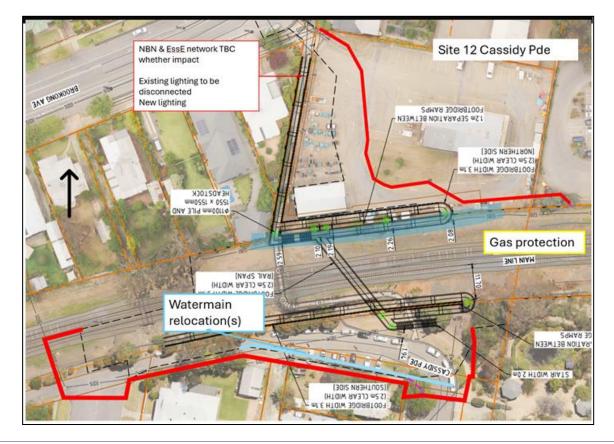
The remainder of this report provides historic heritage assessment of the three CIZ extension areas together with the management measures to be applied that will ensure compliance with the Infrastructure Approval.

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:

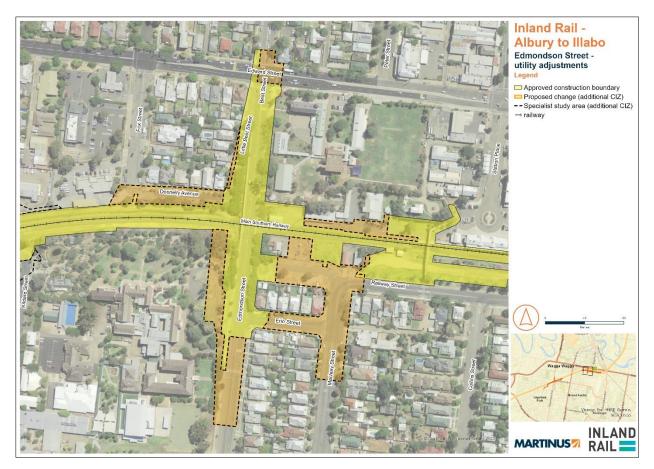
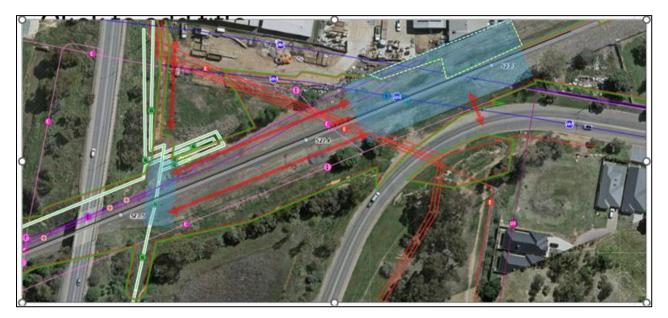


Figure 1-4: Edmondson Street proposed works design (source: Martinus).

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.

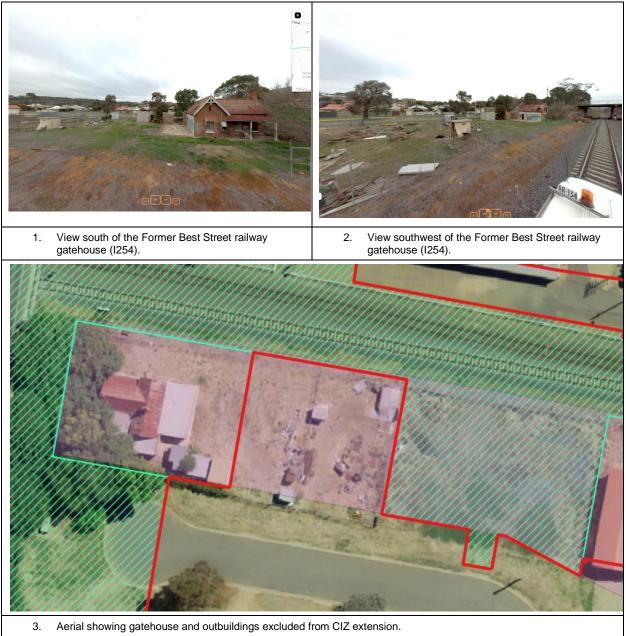


Figure 2-1: 2024 view of the cottage gatehouse (I254) (also see front cover image)

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**).

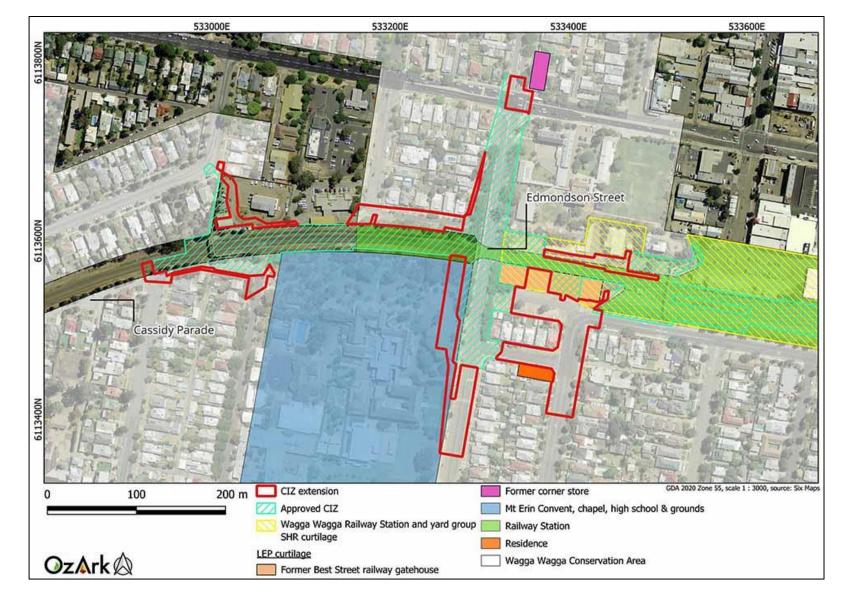
Northern side of the rail line

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.





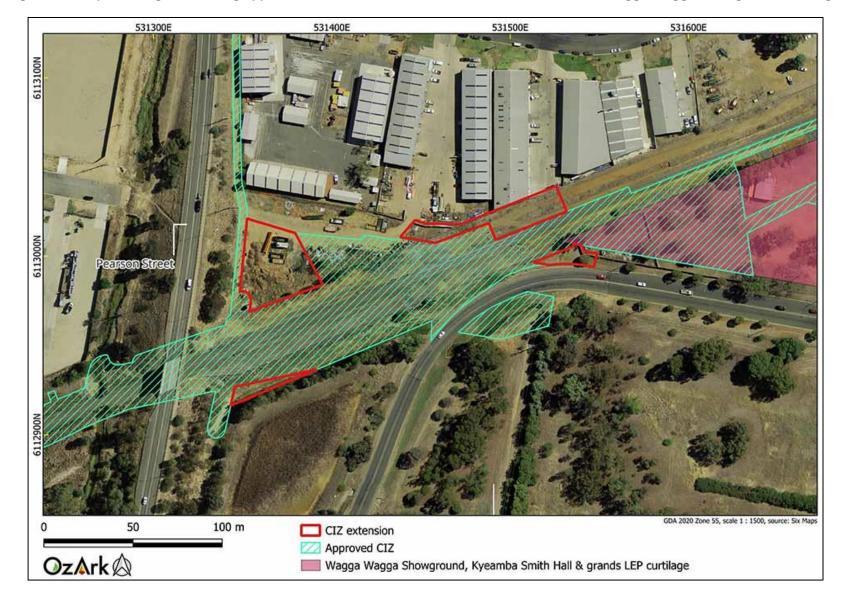


Figure 2-3. Map showing the existing approved Pearson Street CIZ extension in relation to the Wagga Wagga Showground curtilage.

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



7th 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.

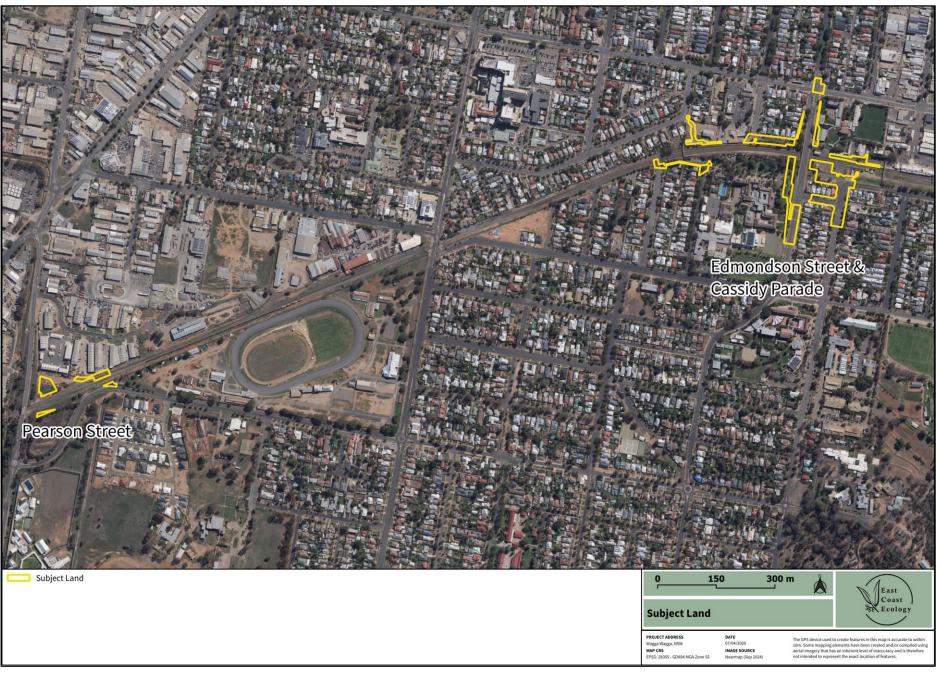


Figure 1. Location of the Subject Land.



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 1st 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 9th 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).

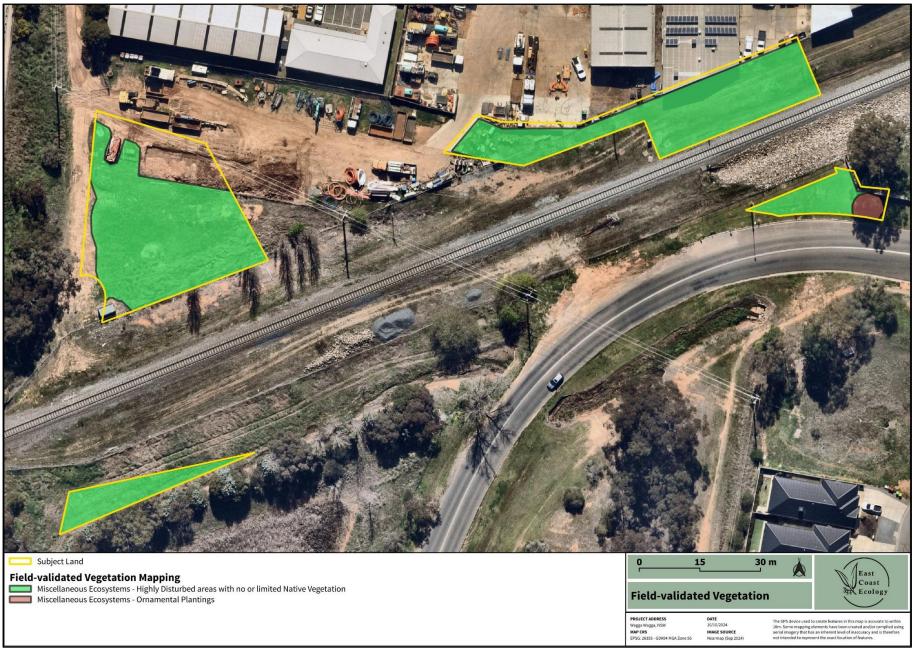


Figure 6. Field-validated vegetation communities (Pearson Street).

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

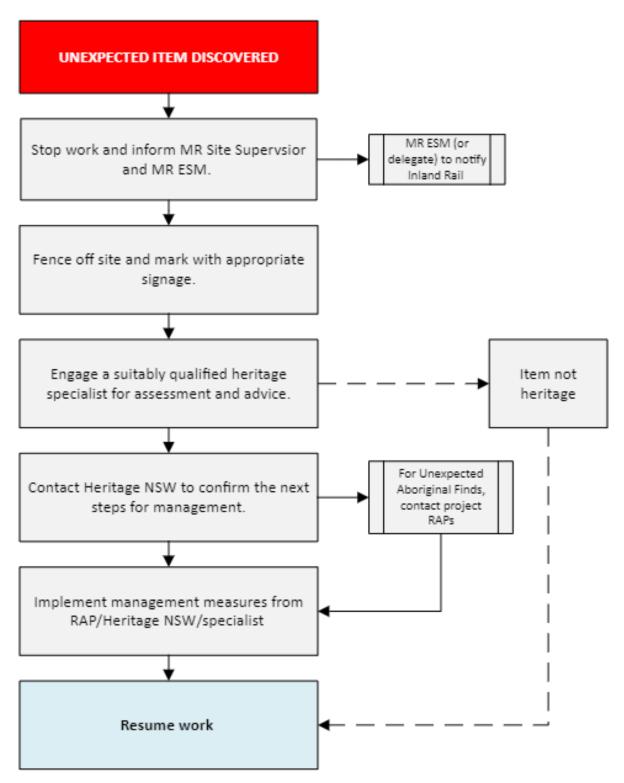
An Aboriginal artefact is anything that is the result of past Aboriginal activity. This includes stone (artefacts, rock engravings etc.), plant (culturally scarred trees) and animal bone (if showing signs of modification; i.e. smoothing, use). Human bone (skeletal remains) may also be uncovered while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

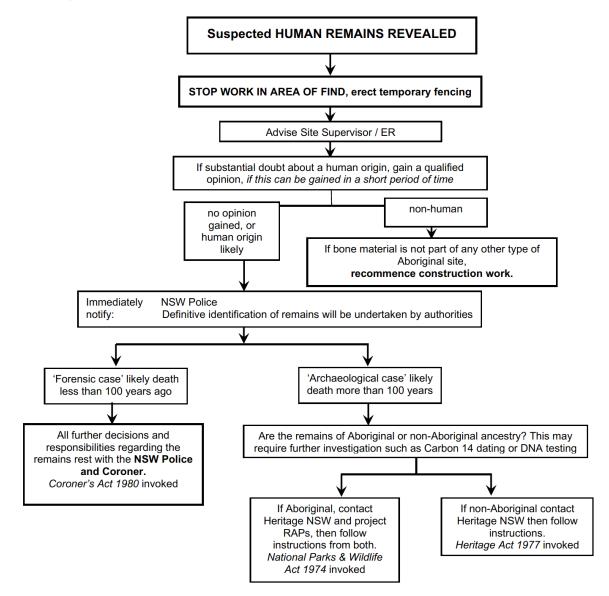
- 1. The area will be temporarily fenced immediately to ensure no damage/further damage to skeletal material. No skeletal material that remains in place should be disturbed from its location;
- 2. Works in the vicinity are to be stopped immediately;
- 3. The Site Supervisor is to be made aware of the 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

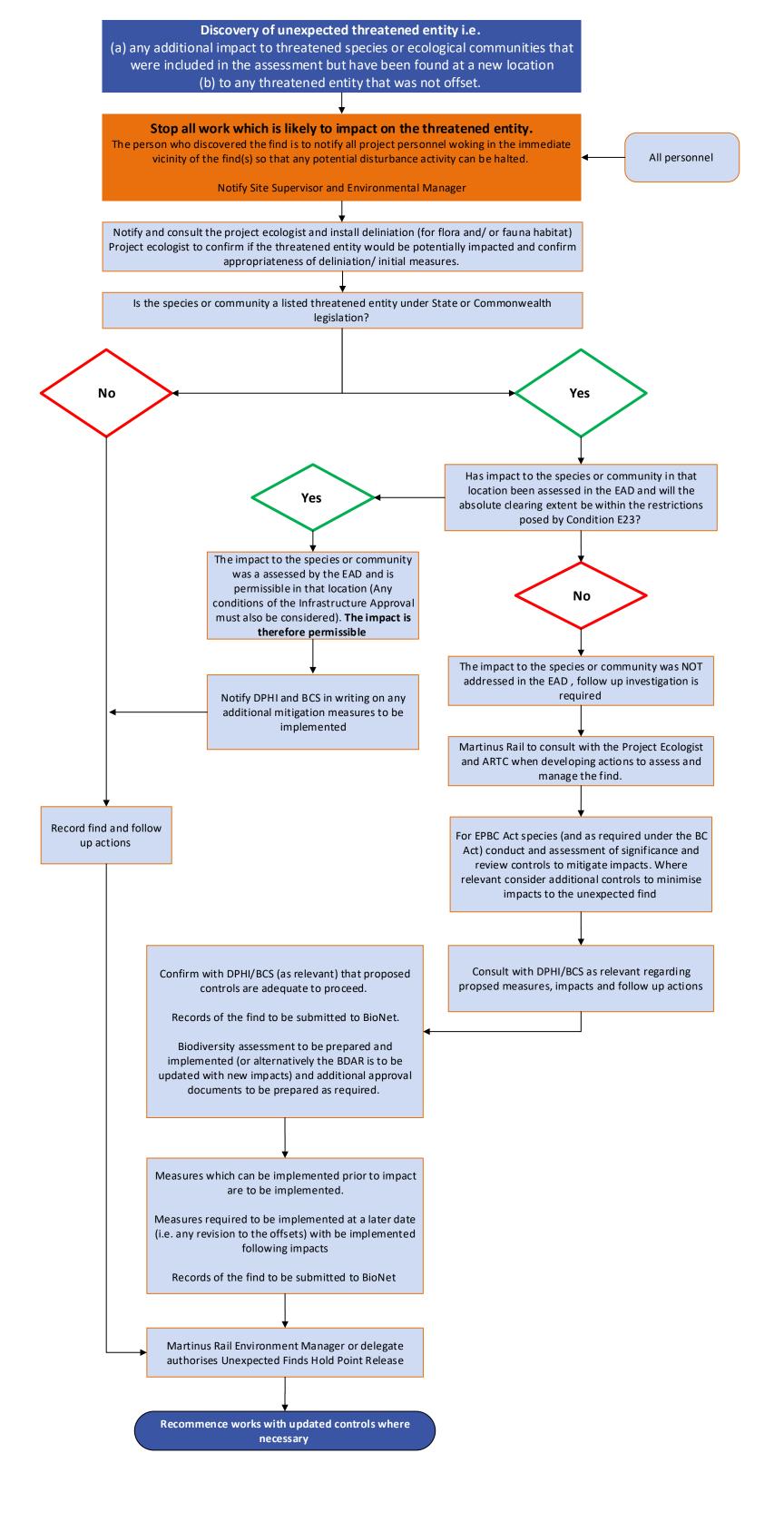




Appendix H Unexpected Finds Procedure (Flora and Fauna)

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Appendix I Unexpected Finds Procedure (Contamination)

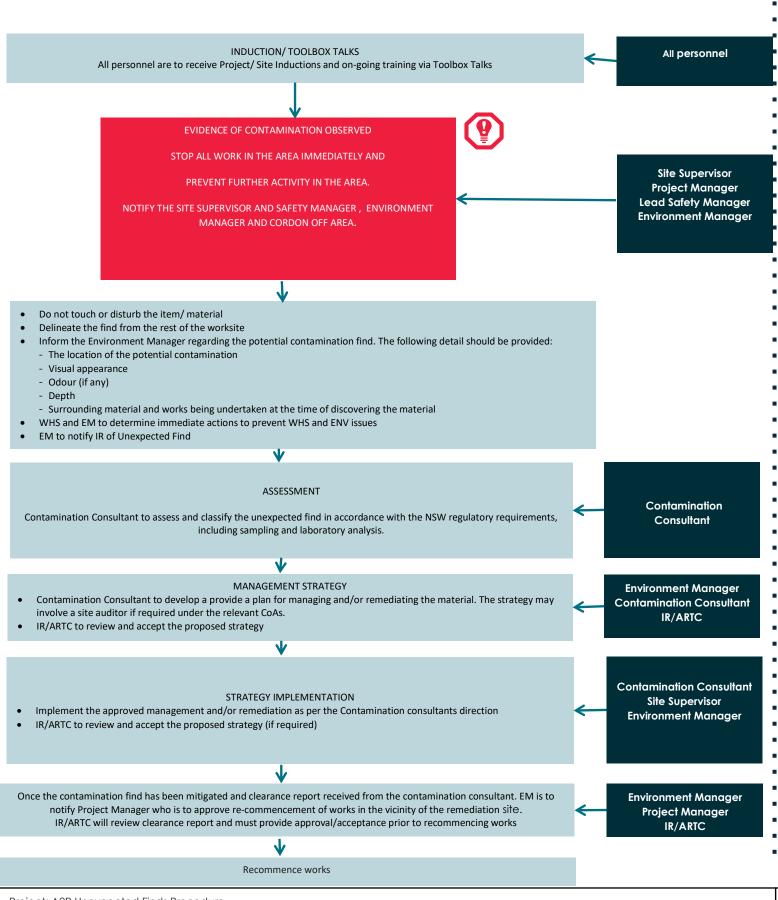
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UNEXPECTED FINDS PROCEDURE

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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| Document No: | Date: 19/09/2024 |
| Approved By: Gavin Murphy | Printed copies are uncontrolled |
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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