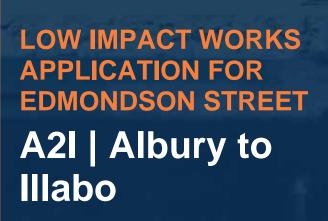
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Document Control

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SIGNATURE:	Q		DATE:	21/02/2025

Approved by

This signature acknowledges that the proposed LIW will be undertaken in accordance with this assessment and are not defined as 'Construction' in accordance with the planning approval.

NAME	TITLE	SIGNATURE	DATE
Chris Standing	Environmental and Sustainability Manager	lSy	21/02/2025

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DEFINITIONS AND ACRONYMS

Acronym	
A2I	Albury to Illabo (Inland Rail)
BARM	Biodiversity Assessment Report Memo prepared by East Coast Ecology (November 2024)
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.
Construction Ancillary Facility	A temporary facility for construction of the CSSI including an office and amenities compound, construction compound, material crushing and screening plant, concrete and asphalt batching plant, materials storage compound, maintenance workshop, testing laboratory, material stockpile area, access and car parking facilities and utility connections to the facility. Note: Where an approved CEMP contains a stockpile management protocol, a material stockpile area located within the construction boundary is not considered to be an ancillary facility.
Construction Boundary	The area physically affected by works as described in the documents listed in Condition A1.
CBMP	Construction Biodiversity Management Plan
CCHMP	Construction Cultural Heritage Management Plan
CCS	Community Communications Strategy
CNVMP	Construction Noise and Vibration Management Plan
СоА	Conditions of Approval
CSWMP	Construction Soil and Water Management Plan
CTTMP	Construction Traffic and Transport Management Plan
CWCHMMP	Construction Waste, Contamination and Hazardous Material Management Plan
EAD	 Environmental Assessment Documentation that includes: 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).



Acronym	Meaning
EIS	The Environmental Impact Statement referred to in Condition A1, submitted to the Planning Secretary seeking approval to carry out the development described in it, and including any additional information provided by the Proponent in support of the application for approval of the project.
ER	The Environmental Representative(s) for the CSSI approved by the Planning Secretary.
EPL	Environment Protection Licence under the POEO Act.
FBEMP	Flooding and Bushfire Emergency Management Plan
Highly noise affected	As defined in the Interim Construction Noise Guideline (DECC, 2009).
Heavy Vehicle	Has the same meaning as in the Heavy Vehicle National Law 2013 (NSW).
Local road	Any road that is not defined as a classified road under the Roads Act 1993 (NSW).
LIW	 Includes: a) survey work including carrying out general alignment survey, installing survey controls (including installation of global positioning systems (GPS)), installing repeater stations, carrying out surveys of existing and future utilities and building and road dilapidation surveys; b) investigations including investigative drilling, contamination investigations and excavation; c) site establishment work approved under a Site Establishment Management Plan; d) use of minor ancillary facilities if the ER has determined the operational activities will have a minor impact on the environment and the community; e) minor clearing and relocation of native vegetation, as identified in the documents listed in Condition A1; f) installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and at-property treatments; g) property acquisition adjustment work including installation of property fencing; h) relocation and connection of utilities where the relocation or connection has been determined by the ER to have a minor impact to the environment and the community; i) archaeological testing under the Code of practice for archaeological investigation of Aboriginal objects in NSW (DECCW, 2010) or archaeological monitoring undertaken in association with (a) - (h) above to ensure that there is no impact on heritage items; j) archaeological and cultural salvage undertaken in accordance with a methodology required by the ER to have minor impact on the environment and the carrying out of the CSSI; and l) other activities determined by the ER to have minor impact on the environment and the community, which may include but not be limited to construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access.



Acronym	Meaning
	 a) where heritage items, or threatened species or their habitat, or threatened ecological communities (within the meaning of the Biodiversity Conservation Act 2016) are adversely affected or potentially adversely affected by any low impact work as defined in (a) to (I) above, that work is construction, unless otherwise determined by the Planning Secretary in consultation with Heritage NSW, EHG or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation); and b) (b) any night-time work that exceeds noise management levels as defined in the ICNG. The low impact work described in this definition becomes Construction with the approval of a CEMP. Where low impact work has already commenced, this is considered to remain as low impact work and is managed in accordance with the framework under which it commenced. Notes: Early stages of work are not necessarily low impact work. Low Impact work is not construction as defined by this approval
NML	Noise Management Level
PCT	Plant Community Type
Rail Corridor	Land that is: (a) owned, leased, managed, or controlled by a public authority for the purpose of a railway or rail infrastructure facilities, or zoned under an environmental planning instrument predominantly; or (b) solely for development for the purpose of a railway or rail infrastructure facilities.
RBL	Rating Background Level
ROL	Road Occupancy Licence
SAP	Sensitive Area Plan
SAQP	Sampling, Analysis and Quality Plan
Sensitive Receivers	Includes residences, educational institutions (including preschools, schools, universities, TAFE colleges), health care facilities (including nursing homes, hospitals), religious facilities (including churches), childcare centres and passive recreation areas (including outdoor grounds used for teaching). Receivers that may be considered to be sensitive include commercial premises including film and television studios, research facilities, entertainment spaces, temporary accommodation such as caravan parks and camping grounds, restaurants, office premises, and retail spaces), and industrial premises as identified by the Planning Secretary.
SRP	Spill Response Procedure
SSI	State Significant Infrastructure
TGS	Traffic Guidance System
TEC	Threatened Ecological Communities
UMM	Updated Mitigation Measure
WWUNHA	The Wagga Wagga Utilities Non-Aboriginal Heritage Assessment undertaken by OzArk on 6 November 2024.



Acronym	Meaning
Work	Any physical activity for the purpose of the CSSI including Construction and Low Impact Work but not including operational maintenance work.



1 INTRODUCTION

1.1 Albury to Illabo

The Australian Government has committed to building a significant piece of national transport infrastructure by constructing a high-performance and direct interstate freight rail corridor between Melbourne and Brisbane, via central-west New South Wales (NSW) and Toowoomba in Queensland.

Inland Rail is a major national program that will enhance Australia's existing national rail network and serve the interstate freight market. Australian Rail Track Corporation (ARTC) manages the existing freight rail network in NSW and is responsible for the delivery of the Inland Rail program.

The Inland Rail program is about 1,700 kilometres (km) long and has been divided into 13 projects, one of which is enhancements of the existing rail corridor between Albury and Illabo ('the proposal'). Works are proposed at 24 locations along this corridor in order to accommodate the requirements of Inland Rail. This Environmental Impact Statement (EIS) addressed the potential impacts of the construction and operation of the proposal. The EIS supported an application for approval under Division 5.2 of the Environmental Planning and Assessment Act 1979 (NSW) (EP&A Act). Approval for the project under the EP&A Act was granted by the Minister for Planning on 8 October 2024. Where works are occurring within the rail corridor/premised area under EPL 3142, the works will be done in alignment with that EPL. Works outside the EPL premised area will be undertaken in accordance with the SSI approval.

The project involves enhancement works to structures and sections of track along 185 km of the existing operational rail corridor between Albury and Illabo. These enhancement works are required at 24 discrete locations (enhancement sites) to accommodate double-stacked freight trains up to 1,800 metres (m) long and 6.5 m high along the rail corridor.

1.2 Purpose of Due Diligence Assessment

The purpose of this Low Impact Works Due Diligence Assessment (LIW assessment) is to:

- Describe the proposed works relative to 'Low Impact Work' as defined by the Minister's Conditions of Approval (CoA) SSI- 10055 (Project Approval).
- Assess the environmental risks associated with undertaking the proposed works to confirm the works meet the definition of Low Impact Work (LIW), pursuant to CSSI 10055, Table 1 – Terms and Definitions.

This LIW assessment includes:

- Detailed description of the proposed works (Section 2)
- Details on the type of LIW permitted under the SSI approval (Section 3)
- Identification of mitigation measures to be implemented to address any actual or potential environmental risks and/or impacts (Section 4)
- Details on contractor management and community consultation (Section 5 and 6)
- Endorsement by the Environmental Representative as necessary in accordance with the nature of the Low Impact Works and/or the definition of 'Construction' in the CSSI planning approval (Section 8); and
- Sensitive Area Plan (Appendix A)
- Environmental Assessments (Appendices B D)
- Community Communications Strategy (Appendix E)
- Unexpected Finds Procedures (Appendices F G)
- Spill Response Procedure) Appendix H

If the proposed activities adversely affect or potentially adversely affect heritage items, threatened species, populations or threatened ecological communities, these works are defined as 'construction' unless otherwise determined by the applicable planning authority.

Where works are consistent with the definition of LIW provided in the Project Approval, additional approval is not required. Where works are permitted to be undertaken under the LIW definition sub point (I) in CoA Table A, this LIW application will be provided to the ER for approval.

Any approval to undertake LIW does not remove the obligation to comply with the applicable CoA.



2 PROPOSED WORKS DESCRIPTION

2.1 Description

Works are proposed to occur within the Edmondson Street bridge enhancement site, including the following activities:

- Establishment of site compound;
- Trimming and removal of vegetation;
- Geotechnical and contamination investigations;
- Preparation of area for auger bore works.

An amendment to the CIZ is required to enable some of the proposed activities (geotechnical and contamination investigations and preparation of area for the auger bore works). An assessment of the CIZ change and any associated potential impacts has been undertaken through a consistency assessment (document reference: (6-0052-210-EEC-W5-AS-0002) which has been developed to support the amendment and will be required to be approved prior to any works being undertaken within the expanded CIZ.

Further information on the proposed methodology, commencement date, duration, plant and equipment and local sensitivities are described in Table 1.

TABLE 1: OVERVIEW OF WORKS

Overview of LIW	
Location and setting	The LIW would be located at the Edmondson Street bridge enhancement site, west of the Wagga Wagga Railway Station on the Main Southern Railway Station Line, in Turvey Park NSW 2650.
Methodology	The proposed LIW would be carried out through four activities, which are outlined below in no particular order below:
	Establishment of site compound
	The establishment of a site compound at Railway Street and will include the preparation of the site and set up of an office/lunchroom, laydown area, storage containers, parking for heavy vehicles and light vehicles, launch pit, fuel tanks, chemical cabinets, and site access gates. Refer to Figure 1, 'blue shaded area'. To establish the compound, minor earthworks are required to ensure that the ground is at a suitable level for placing the site sheds, amenities, and parking. Minor trimming and clearing of vegetation will also be required as part of the site preparation activities.
	Once appropriately level and site preparation activities have been undertaken, a marker layer will be placed prior to a layer of road base (DGB) to stabilise the area before the site sheds and amenity structures are placed. Line marking of parking areas and installation of signage will be undertaken last. Martinus is aware that a number of historical ballast stockpiles are currently located within this area and have sought historical characterisation data from Inland Rail to inform the treatment/management of this material. Subject to the availability of these records, Martinus will seek direction from Inland Rail on the management of these stockpiles but anticipate the adoption of one or multiple of the following options:
	 i. Characterisation records available and materials satisfy criteria to be transferred by Inland Rail to another site in accordance with the ARTC resource recovery order (RRO); ii. No characterisation records available, materials are visually inspected for asbestos prior to being relocated to an adjacent area within the site to allow contamination/classification sampling to be undertaken whilst compound establishment works proceed. Materials would then be reused on site or disposed of offsite, subject to sampling results, following the commencement of construction in accordance with the requirements of the approved CEMP and sub plans.
	Trimming and removal of vegetation

Overview of LIW	
	The trimming and removal of vegetation (clearing and grubbing) would be required and would be minor as to accommodate the general proposed set up and other proposed LIW activities. Refer to Figure 1.
	Geotechnical investigations and contamination assessment
	Geotechnical investigations including potholing along Railway Street, Macleay Street and Erin Street to confirm the location and depths of underground utilities. Potholing will be undertaken through non-destructive vacuum excavation. Refer to Figure 1, for the geotechnical investigation locations and markup showing the location of contamination investigations. Additional contamination sampling will also be undertaken within the CIZ to support the Sampling Analysis Quality Plan (SAQP), sampling would be undertaken through a combination of soil surface samples or test pits using a small excavator supervised by a suitably qualified consultant. Contamination sampling will take place prior to site levelling and the installation of the marker layer and DGB associated with establishment of the site compound area.
	Preparation of area for auger bore works
	The preparation of two small sections of land at Railway Street (south of the Wagga Wagga rail line) and on Best Street (east of Edmondson Street Bridge and north of the Wagga Wagga rail line) will be undertaken to facilitate future auger bore works. This will involve excavation of the auger bore send and receival pits, including installation of geotechnical controls. Refer to Figure 1.
	Some waste, such as legacy stockpiles/signal huts and other materials may also be required to be disposed of to facilitate the works outlined above. Where offsite disposal is required, works will be planned to minimise traffic movements and all waste would be classified in accordance with the Waste Classification Guidelines and disposed of at a suitably licenced facility in accordance with legislative requirements. The maximum volume of waste that may potentially require disposal is estimated at <150m3.
Planned commencement date and duration	The LIW are proposed to commence in January 2025 and expected to be complete in February 2025. The proposed low impacts works would be carried out until construction works commence, with an anticipated start date on 12 February 2025.
Plant & Equipment	The following plant and equipment would be utilised for the proposed works (plant/equipment numbers are contained in the CNVIS in Appendix C): Franna Light vehicles EWP Chainsaws Mulcher Tipper trucks Excavators Dump trucks Vacuum trucks Road saw Plate compactor Drilling rig
Hours of Work	 The proposed LIW will be undertaken during standard hours as noted below: 7:00am to 6:00pm Mondays to Fridays, inclusive; 7:00am to 6:00pm Saturdays; and at no time on Sundays or public holidays



Overview of LIW	
	Where works are undertaken within the premised area under EPL 3142, works will be restricted to 08:00am to 13:00pm on Saturdays.
Local Sensitivities:	The local sensitivities surrounding the LIW are noted below, with proposed mitigation measures for each environmental aspect discussed in Section 3.
	Land Zones
	The proposed LIW are located within mixed land zones consisting of general residential dwellings, commercial buildings, and educational institutions.
	All works will only be undertaken within the site boundary. It should be noted that a Consistency Assessment for the expansion of the CIZ is currently under review to enable the works to occur in accordance with all of the areas identified in Figure 1.
	Traffic and Transport
	There are no proposed or expected changes to the existing road or rail line as part of these proposed LIW. There are no expected impacts to pedestrian and cyclist facilities or access to private properties.
	The average vehicle numbers for the works would be 2 Heavy Vehicles and 4 Light Vehicles per hour. Vehicles would use the routes identified in the EAD.
	Lane closures for safety requirements may be required resulting in an increased traffic for short duration periods.
	Non-Aboriginal Heritage
	The Wagga Wagga Non-Aboriginal Heritage Assessment (WWUNHA) (November 2024) the following non-Aboriginal heritage items and sites are located within or in the vicinity of the proposed LIW:
	 Wagga Wagga Heritage Conservation Area (within CIZ) Edward and Best Streets intersection, former corner store (LEP item I262) (~5 metres from CIZ) Mt Erin Convent (LEP item I260) (within CIZ) Best Street railway gatehouse (LEP item I254) (within CIZ) Wagga Wagga Railway Station and yard ground (SHR 01279) (within CIZ)
	As per the WWUNHA, no direct or indirect impacts are expected due to the location and nature of the LIW.
	Aboriginal Heritage



Overview of LIW

An AHIMS search was completed which showed that there are no known Aboriginal heritage items or sites located within or the vicinity of the proposed LIW.



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. *

Noise and Vibration

The proposed LIW would be undertaken during approved standard hours.

The CNVIS (SLR, 2025) has identified 42 receivers anticipated to experience a NML exceedance during approved standard hours, with the following noted:

Site Establishment/Demobilisation (W.001) and Compound Operation (W.002):

- 31 residential receivers 1-10 dBA exceedance of NML
- 3 residential receivers 11-20 dBA exceedance of NML
- 8 'Other Sensitive' receivers 1-10 dBA exceedance of NML

The proposed LIW would be moderately intrusive (11 to 20 dBA exceedance of NML) for 3 receivers out of 42. Any affected nearby sensitive receivers will be appropriately managed as per the proposed mitigation measures in Table 3.

The scope of vegetation clearing (W.003) and geotechnical investigation (W.004) works proposed to be undertaken as LIW under this approval is limited to the areas shown in Figure 1. Works will be of a short duration, not involve the removal of any trees and be of a mobile (not stationary) nature ensuring that impacts to any single receiver only occur for a short duration.

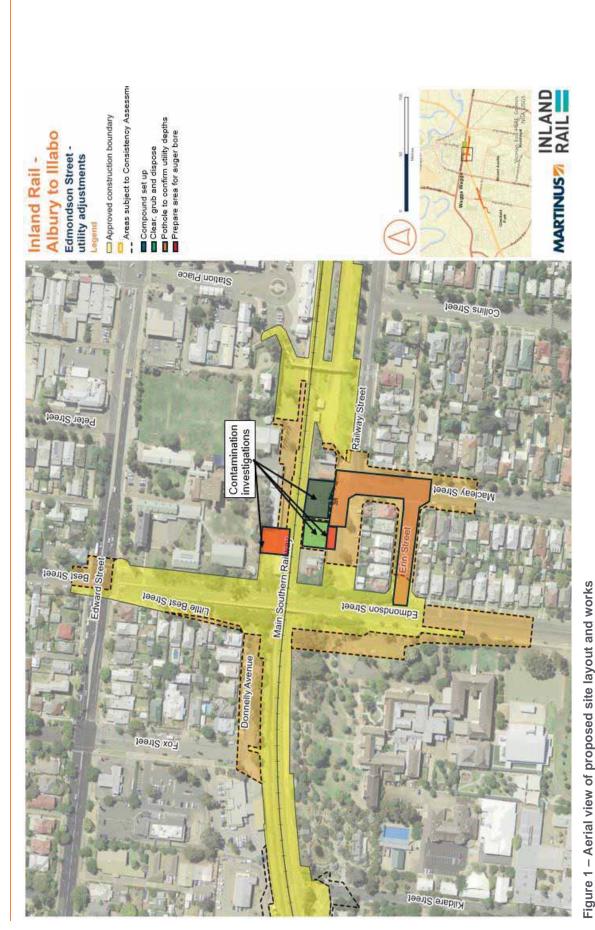
The proposed LIW would not involve any out-of-hours work (OOHW), or any ground-borne noise or vibration intensive equipment.

Biodiversity

The proposed LIW will involve trimming and removal of vegetation. Due to the historical disturbance of the identified non-native and no-to-limited native ecosystems, they were

Overview of LIW	
	determined to have limited ecological function. The BDAR and BARM list the vegetation communities identified within the LIW construction footprint as:
	 Miscellaneous Ecosystems – Ornamental Plantings; and Miscellaneous Ecosystems – Highly Disturbed areas with no or limited Native Vegetation. These vegetation communities are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits, as per Section 9.3 of the Biodiversity
	Assessment Method (BAM). The vegetation proposed for removal provides low-quality foraging habitat for threatened fauna. It is considered unlikely that any threatened species would occupy the proposed LIW area due to evidence of ongoing disturbance (railway, roads, residential housing). As noted in the BARM, no impacts to threatened species, populations or ecological communities are expected as a result of the proposed activity.
	Landscape and Visual Impact The LIW would involve the removal and trimming of vegetation. The areas which are the
	subject of this LIW have historically been cleared and used for the storage of redundant railway equipment. Considering the historic land use of these areas and that screening will be erected around the site, no adverse landscape impact is expected from the proposed LIW.
	Flooding
	The proposed LIW are located on flood prone land.
	The site compound may be impacted during a flood event, with flood emergencies possibly causing property damage, injury to construction personnel and loss of life if not managed.
	Soil
	There is a low probability of acid sulfate soils (ASS), with the local area mapped as having a 'low' land salinity hazard.
	Contamination
	Two areas of concern are located within the proposed works area, there is also a general contamination risk present within the proposed LIW area as a result of the land use of the area.
	Waste
	There is the potential to generate waste as part of the proposed LIW activities. All waste would be classified in accordance with the Waste Classification Guidelines and disposed of at a suitably licenced facility in accordance with legislative requirements.







3 ENVIRONMENTAL PLANNING AND APPROVALS

3.1 CSSI Low Impact Works

The work subject to this assessment meets the definition of Low Impact Work under SSI 10055 indicated in Table 2.

TABLE 2: LIW CATEGORY

Low Impact Works Definition (SSI 10055)	
(a) survey work including carrying out general alignment survey, installing survey controls (including installation of global positioning systems (GPS)), installing repeater stations, carrying out surveys of existing and future utilities and building and road dilapidation surveys;	
(b) investigations including investigative drilling, contamination investigations and excavation;	\boxtimes
(c) site establishment work approved under a Site Establishment Management Plan;	
(d) use of minor ancillary facilities if the ER has determined the operational activities will have a minor impact on the environment and the community;	
(e) minor clearing and relocation of native vegetation, as identified in the documents listed in Condition A1;	
(f) installation of mitigation measures including erosion and sediment controls, temporary exclusion fencing for sensitive areas and at-property treatments;	
(g) property acquisition adjustment work including installation of property fencing	
(h) relocation and connection of utilities where the relocation or connection has been determined by the ER to have a minor impact to the environment and the community;	
 (i) archaeological testing under the Code of practice for archaeological investigation of Aboriginal objects in NSW (DECCW, 2010) or archaeological monitoring undertaken in association with (a) - (h) above to ensure that there is no impact on heritage items; 	
(j) archaeological and cultural salvage undertaken in accordance with a methodology required by the conditions of this approval;	
(k) maintenance of existing buildings and structures required to facilitate the carrying out of the CSSI; and	
(I) other activities determined by the ER to have minor impact on the environment and the community, which may include but not be limited to construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access.	
Despite the above, the following works are not Low Impact Work:	
(a) where heritage items, or threatened species or their habitat, or threatened ecological communities (within the meaning of the Biodiversity Conservation Act 2016), are adversely affected or potentially adversely affected by any low impact work as defined in (a) to (n) above, that work is construction, unless otherwise determined by the Planning Secretary in consultation with Heritage NSW, EHG or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation); and	
(b) any nighttime work that exceeds noise management levels as defined in the ICNG.	
Will Low Impact Work? Yes	No



Low Impact Works Definition (SSI 10055)				
Adversely affect or potentially adversely affect Heritage Items				
Adversely affect or potentially adversely affect Threatened Species (or their Habitat)				
Adversely affect or potentially adversely affect Threatened Ecological Communities (within meaning of the Biodiversity Conservation Act 2016)				
If 'Yes' then that work is Construction, unless otherwise determined by the Planning Secretary in consultation with Heritage NSW, EHG or DPI Fisheries (in the case of impact upon fish, aquatic invertebrates or marine vegetation).				
NOTE: The low impact work described in this definition becomes Construction with the approval of a CEMP. Where Low Impact Work has already commenced, this is considered to remain as Low Impact Work and is managed in accordance with the framework under which it commenced.				
Early stages of work are not necessarily low impact work.				
Low impact work is not construction as defined by this approval.				

3.2 Assessment of Consistency with CoA

This assessment has considered the proposed activities in terms of consistency against the Minister's Conditions of Approval SSI-10055 and the definition of 'Low Impact Work' in accordance with the planning approval. The proposed activities will not adversely affect heritage items, threatened species, or threatened ecological communities and their habitat.

Further to the details provided above, the LIW are considered Consistent with SSI-10055 and the definition of 'Low Impact Work' and are not 'Construction'.



4 ENVIRONMENTAL IMPACT AND MITIGATION

A description of the anticipated environmental impacts and the proposed mitigation measures are contained in Table 3.

TABLE 3: IMPACTS AND MITIGATION MEASURES

Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
Traffic and Transport	 The proposed LIW is located adjacent to the following road types: Edmondson Street – local road Railway Street – local road Erin Street – local road Macleay Street – local road Local roads are under the authority of local council. 	There are no proposed or expected changes to the existing road or rail line as part of these proposed LIW. There are no expected impacts to pedestrian or cyclist facilities, as there are none located within the proposed LIW. There are no expected impacts to access through private properties, as there are none required for the proposed LIW. Lane closures for safety requirements may be required resulting in increased traffic for short duration periods. Construction light vehicles while not in use, will be parked within the site compound to minimise disturbance to the community.	 The proposed mitigation measures are as follows: Traffic safety controls would be implemented under approved Traffic Guidance Schemes (TGS) and where appropriate Road Occupancy Licences (ROLs) to minimise the risk of traffic conflicts. Construction vehicles not used for the proposed works are to utilise the parking within the site compounds to avoid impacts on neighbouring streets.
Aboriginal Cultural Heritage	An AHIMS search showed there are no known Aboriginal heritage items or sites located within or the vicinity of the proposed LIW.	There are no known Aboriginal heritage items or sites located within the LIW; therefore, no direct or indirect impact is expected from the proposed LIW.	 The proposed mitigation measures are as follows: If at any time during the LIW, any items of potential Aboriginal heritage significance are discovered they would be managed in accordance with the unexpected heritage finds and human remains procedure. (UMM AH4)
Non-Aboriginal Heritage	The Wagga Wagga Utilities Non- Aboriginal Heritage Assessment (WWUNHA) (OzArk, 2024) has been undertaken for the Wagga Wagga Utility Works (form part of the Inland Rail A2I works) which also included the proposed LIW. The WWUNHA can be referred to under Appendix B. As per the WWUNHA the following known non-Aboriginal heritage items and sites located	As per the WWUNHA the following non-Aboriginal heritage items are located within the proposed LIW: <u>WWHCA</u> It is not considered that the proposed LIW would negatively impact on the heritage characteristics of the WWHCA, although consultation with Wagga Wagga City Council for the proposed trimming and	 The proposed mitigation measures as per the WWUNHA and SAP (Appendix A) are as follows: Demarcation (using barricading or flagging) of the LIW boundary within listed heritage sites to be installed, to ensure there are no inadvertent impacts beyond this (UMM NAH10)

INLAND MARTINUS RAIL

Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
	in the vicinity or within the LIW are listed below:	removal of vegetation is recommended.	 If at any time during the proposed works, any items of potential
	 <u>Wagga Wagga LEP 2010 listed</u> <u>heritage</u> Wagga Wagga Heritage Conservation Area (WWHCA) Edward and Best Streets intersection, former corner store, LEP item I262 Mt Erin Convent, LEP item 	<u>Edward and Best Streets</u> intersection, former corner store (LEP item I262)	items of potential Aboriginal heritage significance are discovered works would
		The proposed LIW would have no interaction with LEP item I262, therefore no direct or indirect impact to the non- Aboriginal heritage item is expected.	 immediately be stopped and the Environmental and Sustainability Manager notified. (UMM NAH11) Heritage inductions for work crews, will also be
	I260 (noted as a locally significant historical site	Mt Erin Convent (LEP item I260)	provided.
	under the State Heritage Inventory (SHI)) Best Street railway gatehouse (LEP item I254) <u>State listed heritage</u>	The proposed LIW would have no interaction with LEP item I260, therefore no direct or indirect impact to the non- Aboriginal heritage item is expected.	
	 Wagga Wagga Railway Station and yard ground (SHR 01279) 	<u>Best Street railway gatehouse</u> (LEP item I254)	
		LEP item I254 is located near the proposed site compound location, however there is no direct or indirect impact anticipated as the location of the gatehouse is excluded from the proposed LIW.	
		<u>Wagga Wagga Railway Station</u> and yard ground (SHR 01279)	
		The proposed LIW are located within small section of the SHR 01279 on the northern and southern side of the rail line. As per the WWUNHA it is noted there are no direct or indirect impacts anticipated from the proposed LIW.	
Noise and Vibration	A Construction Noise and Vibration Impact Statement (CNVIS) (SLR, 2025) was undertaken for the Wagga Wagga Utility Works (form part of the Inland Rail A2I works), which also included the proposed LIW. The CNVIS can be referred to under Appendix C. There are residential, commercial, and educational	The proposed LIW would be undertaken during approved standard hours. The CNVIS has identified 42 receivers anticipated to experience a NML exceedance under W.001 (Site Establishment/Demobilisation) and W.002 (Compound Operation) during approved standard hours, with the following noted:	 A summary of the proposed mitigation measures as per the CNVIS and SAP (Appendix A) are as follows: Equipment that is used intermittently is to be shut down when not in use. Regularly inspect and maintain equipment to ensure it is operating correctly. Avoid the use of radios or stereos outdoors where

INLAND MARTINUS RAIL

Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
	receivers in the vicinity of the proposed LIW. The proposed LIW are located within Noise Catchment Area (NCA) 10 and NCA 11. The following Rating Background Levels (RBL) and residential Noise Management Levels (NML) have been noted for each NCA: <u>NCA 10's RBLs:</u> Daytime – 46 dBA Evening – 45 dBA Night-time - 38 dBA <u>NCA 10's NMLs:</u> Approved hours – 56 dBA Daytime – 51 dBA Evening – 50 dBA Night-time – 43 dBA <u>NCA 11's RBLs:</u> Daytime – 48 dBA Evening – 47 dBA Night-time - 37 dBA <u>NCA 11's NMLs:</u> Approved hours – 58 dBA Daytime – 53 dBA Evening – 52 dBA NMLs for 'Other Sensitive' receivers can include the following: <u>Classrooms at schools and other</u> educational institutions NML Internal – 45 dBA NML External - 55 dBA	 31 residential receivers – 1- 10 dBA exceedance of NML 3 residential receivers – 11- 20 dBA exceedance of NML 8 'Other Sensitive' receivers – 1-10 dBA exceedance of NML W.001 and W.002 were selected as the most representative scenarios for the activities included in the LIW. For the purpose of this LIW 'Other sensitive' receivers are limited to educational institutions. The proposed LIW would be moderately intrusive for 3 receivers out of 42. The proposed LIW would not involve any out-of-hours work (OOHW). The proposed LIW would not involve any ground-borne noise or vibration intensive equipment. Any affected nearby sensitive receivers will be appropriately managed as per the proposed mitigation measures. 	 neighbours can be affected. Avoid dropping materials from a height. Training and awareness programs will be delivered to project personnel, including relevant subcontractors on noise and vibration requirements (including operating hours) from this LIWA through inductions, toolboxes, and targeted training. Using portable temporary acoustic screens where effective to screen the noise emissions. Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receivers where possible. Where practical optimise vehicle routes to avoid or minimise the need for reversing of construction vehicles. 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. This will be determined via the engagement tools contained in the CCS and Section 6 of this LIW. A respite period shall be provided for receivers impacted by weekend work. The respite period



Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
			 will ensure that no single receiver is impacted for two (2) consecutive periods of weekend work. Respite will be provided every second weekend commencing at 1pm on Saturday and concluding at 7am on Monday, unless by negotiated agreement. Consultation with affected sensitive receivers will be undertaken as per the Community Communications Strategy (CCS), refer to Appendix E. Non-tonal movement alarms will be utilised where possible
Biodiversity	A Biodiversity Assessment Report Memo (BARM) (East Coast Ecology, 2024) was prepared for the Wagga Wagga Utility Work, which also included the proposed LIW. Vegetation communities as identified in the BARM and located within the proposed LIW are as follows: <u>Miscellaneous Ecosystems –</u> <u>'Ornamental Plantings' (MEOP)</u> : 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</i> <i>linariifolia</i> (Paperbark), <i>Callistemon viminalis</i> (Weeping Bottle Brush), <i>Lophostemon</i> <i>confertus</i> (Brush Box), <i>Brachychiton populneus</i> (Kurrajong), <i>Corymbia citriodora</i> (Lemon-scented Gum), the mid- story was absent, and the	Due to the historical and ongoing use of residential and community use in the location of the proposed LIW, the MEOP have been planted for aesthetic reasons and therefore were determined to have limited ecological function. The MEOP are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits. Due to the historical disturbance from agricultural, infrastructure (road and rail) and industrial use in the location of the proposed LIW, the MEHD provide limited ecological function. The MEHD are not consistent with the definition of a PCT and are not required to be assessed for ecosystem credits. The proposed LIW will include trimming and removal of vegetation, with the vegetation proposed for removal providing low-quality foraging habitat for threatened fauna. It is considered unlikely that any threatened species would occupy the proposed LIW due to evidence of	 A summary of the proposed mitigation measures are as follows: Training will be provided to all project personnel, including relevant subcontractors on biodiversity management practices and the requirements from this LIWA through inductions, toolbox talks and activity-specific training. All personnel must drive to the conditions, speed limits and road rules. Any fauna strikes must be reported to IRPL as soon as possible. A clearing and grubbing work pack, and SAP (Appendix A) will be developed for construction teams. The extent of clearing required for construction of infrastructure is to be surveyed and marked out on site. The Martinus Rail Environment, Sustainability and Approvals Manager

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lawn. Ex <u>Miscella</u> <u>'Highly I</u>	ayer was mostly exotic		
(MEHD) The veg was hea ground of <i>Plantage</i> Plantain <i>Arctothe</i> Weed). vegetative entirely of displayed disturbas such as concreted MEHD is The BAR threatend threatend or have the surrow	Attent of MEOP is 0.40 ha. <u>neous Ecosystems –</u> <u>Disturbed areas with no</u> <u>d Native Vegetation'</u> <u>:</u> etation within this zone wily comprised of exotic cover species such as to lanceolata (Ribwort), Bromus sp. and eca calendula (Cape The regions this on occurred, were almost developed, and ed a long history of nce from infrastructure roads, rail, carparks, and e footpaths. Extent of s 0.41 ha. RM has also noted 10 ed flora and 33 ed fauna likely to occur the potential to occur in punding environment of losed LIW (~radius of	ongoing disturbance (railway, roads, residential housing). As noted in the BARM, no impacts to threatened species, populations or ecological communities are expected as a result of the proposed activity.	 (ESM) or delegate will ensure delineation installed is consistent with the requirements detailed above to reduce the risk of error or misinterpretation of boundaries and that exclusion zones are consistent with those identified as no-go zones within the SAP. The project ecologist will undertake a pre-clearing survey within the proposed clearing extent prior to the commencement of clearing. (UMM BD5) If any unexpected fauna finds are identified, the Unexpected Finds Protocol will be followed. (UMM BD14) Weed, pest and pathogen management and control practices will be implemented throughout construction, including weed monitoring, to minimise the risk of spread into and out of the Project and between construction sites during construction of the project. Construction personnel and subcontractors will be inducted in the importance of preventing weeds from entering the Project and the measures that must be taken for vehicles, machinery and plant used on the project. If any threatened species or threatened ecological community are unexpectedly encountered, the Unexpected Threatened Species Finds Procedure will be implemented.



Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
			 encountered during construction and is required to be relocated or transported to a vet or wildlife carer in the case of injury. Fauna encountered will be managed in accordance with the Fauna Handling and Rescue Procedure. Consultation with Wagga Wagga City Council for the proposed trimming and removal of vegetation will occur. Any vegetation removal on third party property would only occur with their agreement.
Landscape and Visual	The existing Cassidy Parade pedestrian bridge is located adjacent to the Wagga Wagga Health and Knowledge Precinct and the existing Edmondson Street bridge is located adjacent to the Wagga Wagga CBD Precinct. These precincts are identified as 'key locations' for 'renewal and intensification.'	The LIW would not involve any works on either the Cassidy Parade pedestrian bridge or the Edmondson Street bridge, therefore no impacts are anticipated. The trimming and clearing of vegetation would be undertaken in the approved construction boundary and would have a minor, short-term visual impact. No OOHW have been proposed as part of the scope and therefore light spill impact would be avoided.	 A summary of the proposed mitigation measures as per the SAP (Appendix A) are as follows: The site compound will be designed and orientated to minimise visual impacts. This will include locating areas of low visual amenity away from sensitive receivers and erecting boundary screening around compounds. (UMM LV8)
Flooding and Bushfire Risk	There is an overland flooding risk within the rail corridor, with peak flood depth of 0.15-0.3 m noted within the rail corridor in the 1% AEP. There is a bushfire risk in Wagga Wagga between October and March (Riverina Region).	The proposed LIW are located on flood prone land. The site compound may be impacted during a flood event, with flood emergencies possibly causing property damage, injury to construction personnel and loss of life if not managed. The proposed LIW are not located within a bushfire prone land, with the closest bushfire prone land located approximately 600m away.	 A summary of the proposed mitigation measures are as follows: Training will be provided to all project personnel, including relevant subcontractors on bushfire prevention and management measures and the requirements from this LIWA through inductions, toolboxes, and targeted training. Adequate access and egress for fire-fighting vehicles and staff will be provided during construction. (UMM H2)



Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
			 Requirements for first-response capabilities, including fire extinguishers, water carts and hoses will be assessed and provided at during construction, where needed. (UMM H2) Dangerous goods and hazardous materials will be stored in accordance with supplier's instructions and relevant legislation, Australian Standards, and applicable guidelines; and may include bulk storage tanks, chemical storage cabinets/containers or impervious bunds. Emergency response and management will be undertaken in accordance with the project Emergency Management Plan.
Soil and Water	The proposed LIW are located on land noted as 190 to 200m 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. The Murrumbidgee River is located approximately 1200m northeast of the proposed LIW. Soil types within the surrounding area consist of Becks Lane and Lloyd soil landscapes. These consist of a high erosion hazard, steep slopes, localised foundation hazards and mass movement, stoney and strongly acid soils on ridges and upper slopes. There is a low probability of acid sulfate soils (ASS), along with the local area mapped as a 'low' land salinity hazard.	There are no waterways or Groundwater Dependent Systems (GDEs) located within the proposed LIW. There is a low probability of acid sulfate soils (ASS), with the local area mapped as having a 'low' land salinity hazard. There is a risk that a spill may occur as a result from a leak from construction light vehicles and/or a chemical container. There is the potential to generate waste as part of the proposed LIW. Waste generated will be minimised wherever possible and all waste would be classified in accordance with the Waste Classification Guidelines and disposed of at a suitably licenced facility in accordance with legislative requirements.	 A summary of the proposed mitigation measures are as follows: Training will be provided to all project personnel, including relevant subcontractors on soil, water and contamination management and the requirements from this LIWA through inductions, toolboxes talks and targeted training. Before undertaking any work and during maintenance or construction activities, erosion and sediment controls must be implemented and maintained to prevent water pollution consistent with Managing Urban Stormwater: Soils and Construction Vol 1 4th ed. by Landcom, 2004 (The Blue Book). If ASS are encountered, they will be managed in

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Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
	 Groundwater systems are noted as: Lachlan fractured rock groundwater system. Recharged by direct rainfall, or rainfall in areas of topographic highs to the south. Groundwater flow would be controlled by localised topography, and flow towards the north. 		 accordance with the Acid Sulfate Soils Manual (Acid Sulfate Soils Management Advisory Committee (ASSMAC), 1998b) and the Waste Classification Guidelines – Part 4: Acid Sulfate Soils (NSW EPA, 2014b). (UMM SC1) Construction materials such as fuels, chemicals, vehicles, and equipment will be appropriately stored to minimise the introduction of contaminants to the existing soil, groundwater, and surface water runoff. In the event of a spill incident of chemicals, fuels or other hazardous substances, the Spill Response Procedure will be followed. Appropriate spill containment equipment (i.e. spill kits) will be provided and placed at strategic and accessible locations within the site, such as adjacent to chemical storage areas, relevant work areas and refuelling areas.
Contamination and Hazardous Materials	The proposed LIW would be undertaken within Areas of Environmental Concern (AEC), AEC 36 and AEC 37. These areas have been noted as having potential Underground Storage Tanks (USTs), formerly storage of firefighting storage tanks and former fuel store (not part of the proposed LIW) – Former District Engineers Office, workshop, and branch depot. There has also been historical storage of gas cylinders, grease and drums, transformers, rail components and battery acid containers and potential asbestos in buildings.	There is a general contamination risk present within the proposed LIW area. Excavation works are required as part of the auger bore preparation scope and for the investigative works. Any contaminated material would be managed in accordance with measures outlined in the Waste, Air Quality and Odour section below. A site investigation for the Wagga Wagga precinct will be undertaken by a suitably qualified and experienced consultant as defined in Schedule B9 of the NEMP (2013) to inform the detailed design and subsequent	 A summary of the proposed mitigation measures are as follows: The Unexpected Finds Procedure for Contamination would be followed should any unexpected contamination or asbestos (suspected contamination) be encountered or otherwise discovered. (UMM SC6) In the absence of classification documentation, existing materials stockpiled on the site would be assessed by a suitably qualified asbestos supervisor prior to being

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Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
	 Chapter 20 of the EIS notes that potential contaminants of concern at the above AECs include the following: Total Recoverable Hydrocarbons (TRH) Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) Polycyclic Aromatic Hydrocarbons (PAH) Per- and Polyfluoroalkyl Substances (PFAS) Asbestos Lead dust and/or paint 	management and classification of waste soil.	relocated within the site boundary to a location that would allow works to continue.
Waste, Air Quality and Odour	The proposed LIW are likely to generate potential waste during construction. The waste material has been identified as excavated material waste, vegetation cleared waste, liquid waste and construction waste. As noted in Chapter 23 of the EIS, these waste types are general solid waste (non- putrescible) and will be confirmed via waste classification. As noted in the Contamination and Hazardous Materials section above, there is the potential that contaminated material such as asbestos (special waste) is discovered during soil disturbance/excavation works.	There is the potential to generate waste as part of the proposed LIW. All waste would be classified in accordance with the Waste Classification Guidelines and disposed of at a suitably licenced facility in accordance with legislative requirements. There is the potential to generate odour or dust during certain activities undertaken as part of the proposed LIW, including vegetation clearing and grubbing, excavation of auger pits and site establishment. There is the potential for waste tracking during waste collection activities. All waste generated from the proposed LIW will be tracked in accordance with the <i>Protection of the Environment Operations</i> (<i>Waste</i>) <i>Regulation 2014</i> (EPA). Construction waste management activities will not have a significant impact on the environment or community, provided the proposed mitigation measures are implemented.	 A summary of the proposed mitigation measures as per the SAP (Appendix A) are as follows, note that no waste will be disposed from site during LIW: Where visible dust is generated from onsite activities, watering (water cart or water sprays) and/or other appropriate measures will be implemented. (UMM AQ1) Waste generation is to be avoided, and where avoidance is not reasonably practicable, waste generation is to be reduced; Where avoiding or reducing waste is not possible, waste is to be reused, recycled, or recovered; Where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of at a waste management facility, premise lawfully permitted to accept the materials, in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014,



Environmental Aspect	Existing Environment	Potential Impacts	Proposed Mitigation Measures
			 or to any other place that can lawfully accept such waste. All waste generated must be classified in accordance with the Waste Classification Guidelines (EPA 2014) with appropriate records and disposal dockets retained for audit purposes.

5 CONTRACTOR MANAGEMENT

All relevant workforce members will be inducted and tool boxed on the requirements of this early works document. A register will be kept for the workers to sign that they have understood the requirements of the LIW assessment after the toolbox talk. Daily pre-starts will also cover key requirements of this document.

Any lessons learnt from environmental incidents or changes to site environmental risks and sensitivities will be communicated to the workforce through toolbox talks and/or daily pre-starts.

6 COMMUNITY CONSULTATION

Stakeholder engagement activities will be undertaken in accordance with the A2I Community Communication Strategy (CCS). The CCS has been prepared to address the requirements of the relevant CoA and all associated environmental approval documents. Table 4 below outlines the community consultation that has been, and is planned to be, undertaken for the LIW.

Community Consultation	
What community consultation has been undertaken already?	Community consultation will be undertaken in accordance with the Community Communication Strategy (CCS) (Appendix E).
	Inland Rail have notified similar activities that have been proposed within the Wagga Wagga Utilities works (ground investigations and aerial survey work) between 10 October 2024 and 20 December 2024. These works were undertaken under Exempt Development approvals, separate to the SSI project approval. Notifications available at https://inlandrail.com.au/where-we-go/projects/albury-to-illabo/works- notifications/
	The community notification is available through the below link:
	https://inlandrail.com.au/where-we-go/projects/albury-to-illabo/works- notifications/
What community consultation is planned to be undertaken?	Martinus Rail suggest undertaking notifications of works to the community, if this LIW is approved, similar to the public notice issued on Inland Rail's website (above link) in addition to direct notifications to properties in the vicinity of the proposed LIW, 14 days prior to the works being undertaken.
	Engagement activities will include, but not limited to, works notifications, advertisements in local newspapers, social media and door knocking. Consultation with community, religious, educational institutions, noise and vibration-sensitive businesses and critical working areas (such as exam halls, theatres, laboratories, and operating theatres) expected to experience noise levels above NML will occur to determine sensitive periods and implement reasonable respite arrangements. Consultation with Wagga Wagga City Council for the proposed trimming and removal of vegetation will occur. Any vegetation removal on third-party property would only occur with their agreement.

TABLE 4: COMMUNITY CONSULTATION FOR PROGRAMS OF WORKS

Martinus will implement a range of communication and engagement tools throughout the work to communicate key messages, relevant project information, potential impacts, mitigation measures and how to contact the project team. Martinus will implement effective and timely information and respond to enquiries.

Complaints will be responded to in accordance with the complaints management system developed in accordance with the CoA and CCS. Martinus will investigate each complaint received by the project team and every effort will be made to promptly resolve complaints with fairness and respect.

The table below outlines the engagement activities and tools that will be implemented during this program.

TABLE 5: ENGAGEMENT ACTIVITIES AND TOOLS FOR PROGRAM OF WORKS.

Tool	Purpose
Community hotline	A 24-hour community hotline number has been established for the community to ask questions, provide feedback or make complaints about the project. 1800 732 761
Email address	An email address (InlandRailNSW@inlandrail.com.au) has and will continue to be maintained to provide a means for the community to contact the stakeholder and project teams and ask questions or make complaints about the project.
Website	The project website (inlandrail.com.au/A2I) will provide access to digital material and provide reference point to obtain further information.
	Information about the A2I project will be uploaded to the existing project website. The website will be referenced in all communication materials as a source of information and will be updated throughout construction. All documentation required under the CoA and approvals will be uploaded to the site. Stakeholder and community members can submit enquiries, feedback, and comment via the contact us feature.
Community notifications	Community notification will be used regularly to distribute information to the surrounding residents of the upcoming works near them.
	Notification will be used advise the community of upcoming construction.
	Works notifications will be sent via mail and will appear on the Inland Rail website and, depending on impact, will be advertised in the local newspapers.
	Community notifications will include details such as works to be undertaken, what the community can expect to see, what mitigation measures are in place to reduce impacts, equipment to be used, maps of the work area and contact details.

7 DETERMINATION

These signatures represent formal endorsement/approval for the proposed LIW to commence in accordance with this assessment and the applicable planning approval requirements (subject to any determination from the applicable planning authority as may be required by the planning approval conditions).

1	Planning Authority Determination:	□ Yes
	Will the proposed works affect or have the potential to affect heritage items, threatened species or threatened ecological communities?	☑ No If 'Yes', this application must be submitted to the Planning Secretary to determine that the works are not defined as 'construction' in consultation Heritage NSW, EHG or DPI Fisheries as required.
	Identify which works included in this document that require Environmental Representative approval	In accordance with CoA A22 (h), the LIW detailed within this assessment is required to be reviewed by the ER for the appropriateness of activities against the definition of LIW.

Internal sign off			
Engineer Respons	ible		
Name:	Signature:	Date: 21/02/2025	
Area Manager			
Name:	Signature	Date: 21/02/2025	
Environment and Sustainability Manager			
Name:	Signature:	Date: 21/02/2025	
Environmental Representative sign off			
Name:	Signature: Derek Low	Date: 25/02/2025	
Additional comments / notes:			







APPENDICES





APPENDIX A

Sensitive Area Plan (SAP)

ge Utilities Rev A lopment Checklist PMA-00-PL-00004	 Associated Documents: LIW Assessment Edmondson St Rev A LIW Assessment Edmondson St Bridge Utilities Rev A Consistency Assessment Edmondson St Bridge Utilities Rev A A2I Site Investigation Works – Exempt Development Checklist 5-0052-210-EEC-04-AS-0002 EMP – Site Investigation works 5-0052-210-PMA-00-PL-00004 EPL 3142 Standard Exemption Record Keeping Form 	ility
upcoming works ior to the	 Informing Residents: All sensitive receivers have been notified of upcoming works at least 5 days and no more than 14 days prior to the commencement of activities. 	anager ded to nts: be ior to
		ely**
orks s on sensitive	 depths Preparation of area for future auger bore works Activities will be scheduled to minimise impacts on sensitive receivers. 	Mills) – obile # -
o confirm utility	 Site compound establishment Trimming and removal of vegetation Geotechnical investigations and potholing to confirm utility 	ris 11 338
ertaken under this	The following activities are proposed to be undertaken under this LIW application:	-
Figure 1 – Site Overview	Staging of Works:	err) –



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	 Regular maintenance and inspection of machinery; 	
	 No dropping materials from a height; 	
	 Utilise portable temporary acoustic screens where effective 	
	to screen noise emissions;	
	 Avoid simultaneous operation of noisy plant; 	
	 Where practical optimise vehicle routes to avoid/minimise 	
	the need for reversing of construction vehicles;	
	 Avoid the use of radios or stereos outdoors where 	
	neighbours can be affected.	
	 Avoid dropping materials from a height. 	
	 Training and awareness programs will be delivered to project 	
	personnel, including relevant sub-contractors on noise and	
	vibration requirements (including operating hours) through	
	inductions, toolboxes and targeted training.	
	 Consultation with affected sensitive receivers will be 	
	undertaken in accordance with the CCS	
	 Noise generating work in the vicinity of community, religious, 	
	educational institutions, noise/vibration sensitive businesses	
	and critical working areas resulting in noise levels above	
	NMLs will not be timetabled during sensitive receivers	
	0	
ess track and	ess track and travel at low speeds (<30km/hr)	
ated from o	ated from onsite activities, watering (water cart or water sprays) and/or other	
oe impleme	de implemented. (UMIM AQI)	
nt controls t	nt controls to be installed as required (e.g. when working in close proximity to	
vel of erosic	vel of erosion and sediment control required will be determined by the	
and may in	and may include sediment fences, contour banks, catch drains, sediment	
ss. annlied wh	ss. annlied where required during site establishment	
n site and re	site and removed at the end of the works for disposal in a general waste bin.	
assified and	assified and managed in accordance with the Waste Classification Guidelines	
ovember 2(ovember 2014 prior to transporting the waste off the premises.	
edure for C	edure for Contamination will be followed should any unexpected	
be encount	be encountered or otherwise discovered	
hild he from	uild ha from Baet Streat	 Hooding and Bushtire risk management Training will be involved to all project nerconnel including relevant sub-contractors on bushfire prevention and management measures and the raquirements from this
chidae:		han bernet for an project province in a project province of browners and considered of a first province of a considered fragment of the construction o
diddes.		 Administration set of the first of the set of the set
thern end o	thern end of Macleav Street.	Requirements for first-response capabilities, including fire extinguishers, water carts and hoses will be assessed and provided at during construction, where needed. (UMM
be impleme	be implemented under approved TGS and where appropriate ROLs to	H2)
nflicts		 Dangerous goods and hazardous materials will be stored in accordance with supplier's instructions and relevant legislation, Australian Standards, and applicable guidelines;
: used for th	used for the proposed works are to utilise the parking within the site	and may include bulk storage tanks, chemical storage cabinets/containers or impervious bunds.
acts on neig	acts on neighbouring streets.	

Other - Community

Heritage

Hazardous Substances / Spill Management

÷

	put poses.		d. ment equipment (i.e. spill kits) will be provided and placed at strategic and n the site, such as adjacent to chemical storage areas, relevant work areas
	 that can lawfully accept such waste. All waste generated must be classified in accordance with the Waste Classification Guidelines (EPA 2014) with appropriate records and disposal dockets retained for audit purposes. 	prior to being relocated within the site boundary to a location that would allow works to continue.	Sulfate Soils (NSW EPA, 2014b). (UMM SC1) ch as fuels, chemicals, vehicles and equipment will be appropriately stored to h of contaminants to the existing soil, groundwater and surface water runoff. Jent of chemicals, fuels or other hazardous substances, the Spill Response d.
	 recovered; Where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of at a waste management facility, premise lawfully permitted to accept the materials, in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accent the work accent active waste). 	 contamination) be encountered or otherwise discovered. (UMM SC6) In the absence of classification documentation, existing materials stockpiled on the site would be assessed by a suitably qualified asbestos supervisor prior to being relocated within the site boundary to 	Vork and during maintenance or construction activities, erosion and sediment ented and maintained to prevent water pollution consistent with Managing and Construction Vol 1 4th ed. by Landcom, 2004 (The Blue Book). Ney will be managed in accordance with the Acid Sulfate Soils Manual (Acid t Advisory Committee (ASSMAC), 1998b) and the Waste Classification Sulfate Soils (NSW EPA. 2014b). (UMM SC1)
	 Waste generation is to be avoided, and where avoidance is not reasonably practicable, waste generation is to be reduced; Where avoiding or reducing waste is not possible, waste is to be reused, recycled, or recovered. 	 The Unexpected Finds Procedure for Contamination would be followed should any unexpected contamination or asbestos (suspected contamination) be encountered or otherwise 	to all project personnel, including relevant subcontractors on soil, water and ent and the requirements from this plan through inductions, toolboxes talks fork and during maintenance or construction activities. erosion and sediment
	Waste	Contamination	
			or threatened ecological community are unexpectedly encountered, the species Finds Procedure will be implemented. The project may be required if fauna is encountered during construction and d or transported to a vet or wildlife carer in the case of injury. Fauna aged in accordance with the Fauna Handling and Rescue Procedure.
	 Heritage inductions for work crews, will also be provided. 		In management and control practices will be implemented throughout eed monitoring, to minimise the risk of spread into and out of the Project and so during construction of the project. Ind subcontractors will be inducted in the importance of preventing weeds and the measures that must be taken for vehicles, machinery and plant used
compounds where	stopped and the Environmental and Sustainability Manager notified. Potential discoveries would be managed in accordance with the unexpected heritage finds and human remains procedure.		undertake a pre-clearing survey within the proposed clearing extent prior to earing. (UMM BD5) inds are identified, the Unexpected Finds Protocol will be followed. (UMM
compounds to avo streets.	 If at any time during the proposed works, any items of potential Aboriginal or 	charge of the work activity must be notified immediately. The Spill Response Procedure will be	nsistent with the requirements detailed above to reduce the risk of error or idaries and that exclusion zones are consistent with those identified as no-go
Construction vehi	 Demarcation (using barricading or flagging) of the LIW boundary within listed heritage sites the installed to ensure there are no inadvertent innerts hevond 	 In the event of a spill, all necessary actions will be Event of a spill, all necessary actions will be 	ment Sustainability and Annrovals Manager (FSM) or delegate will ensure

an

monson Street – Low Impact Works 1: 17/01/2025, Revision C d in the work to sign onto SAP prior to works commencing:

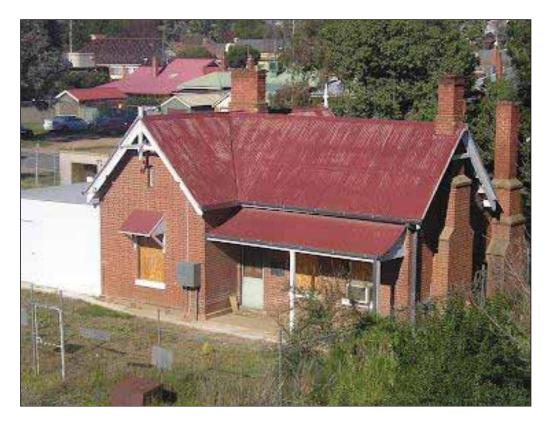
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Date	
Signature	
Worker's name	
sition	





APPENDIX B

Wagga Wagga Utilities Non-Aboriginal Heritage Assessment (WWUNHA)



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



Oz∆rk

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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. 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, meeting the requirements of Condition of Approval (CoA) A15(c).

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



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

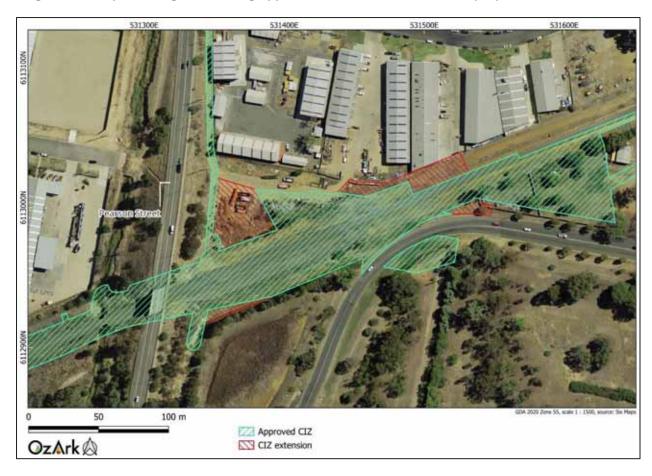


Figure 1-2. Map showing the existing approved Pearson Street CIZ and proposed CIZ extension.

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**.

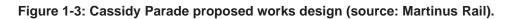
The GML study assessed both direct historic heritage impacts within the approved CIZ boundary and indirect impacts to listed historic heritage located adjacent to and within 200 metres (m) of the CIZ boundary. As the assessment beyond the approved CIZ boundary was in relation to indirect impacts (e.g. 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 CoA 15(c) could be met in relation to the proposed CIZ extension.

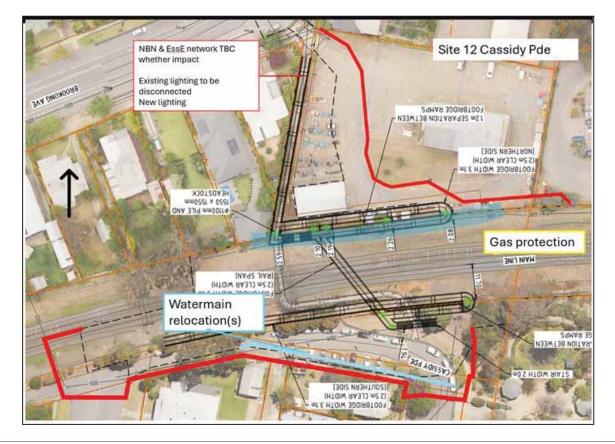
The remainder of this report provides historic heritage assessment of the three CIZ extension areas together with the management measures to be applied that will ensure compliance with CoA 15(c).

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:

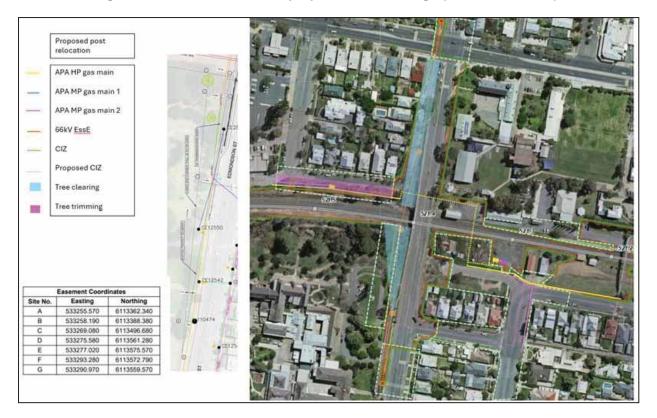
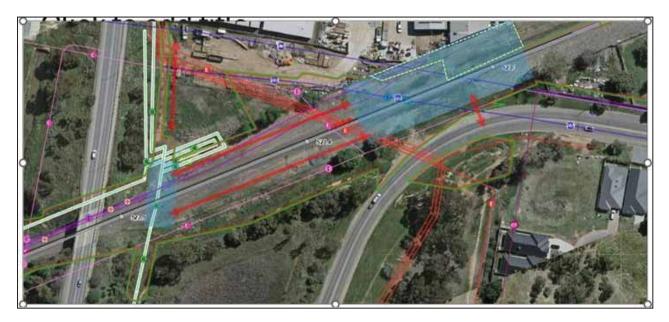


Figure 1-4: Edmondson Street proposed works design (source: Martinus).

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 will not be impacted by the proposed works. The assessment below documents these interactions by 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 Avenue and Brookong Avenue pedestrian footbridge has already been approved for removal under the A2I CoAs 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 will 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 by Inland Rail will negatively impact on the heritage characteristics of the WWHCA, although consultation with Wagga Wagga City Council (WWCC) with regards to the proposed trimming of any trees under management by the WWCC within the WWHCA is recommended.

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 a 66kV electricity transmission line. This will occur at a busy intersection with traffic lights adjacent to the LEP listed former corner store, item I262. As there are already significance above ground power provision easements through this area, the realigned 66kV easement does 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) 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 will 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 Wern 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.

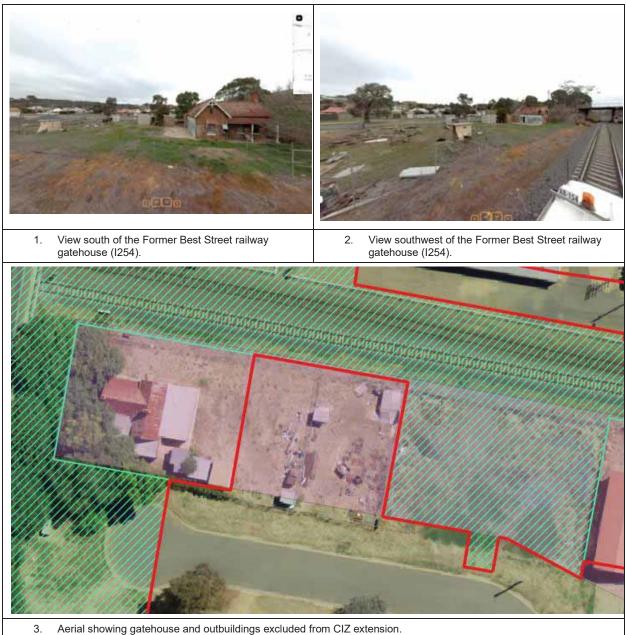


Figure 2-1: 2024 view of the cottage gatehouse (I254) (also see front cover image)

Aerial showing gatehouse and outbuildings excluded from CIZ extension.
 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 A2I Inland Rail project. The CIZ extension area is already comprised of a modern road, and there will 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 will be temporary and will 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 198), 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 will be no impacts to the heritage significance of the SHR listed Wagga Wagga Railway Station and yard group.

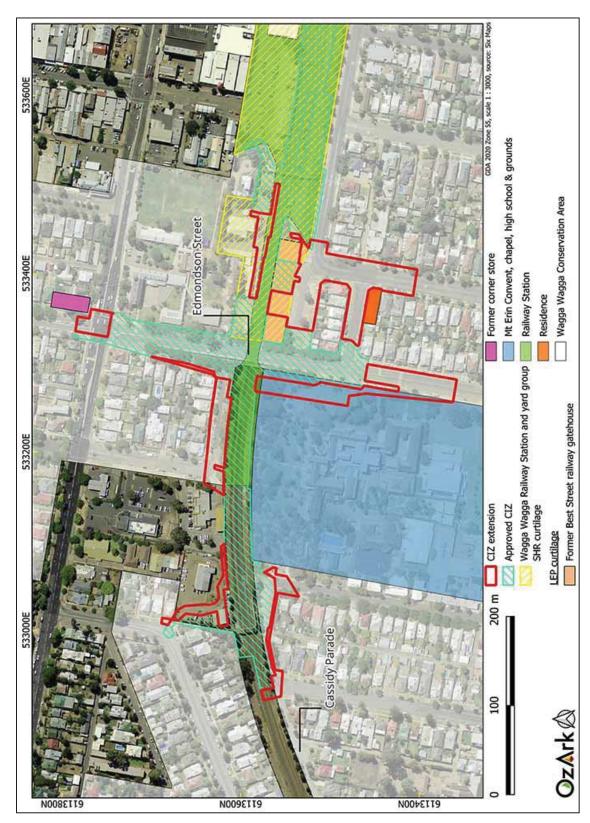


Figure 2-2. Map showing the Edmondson Street and Cassidy Parade CIZ extension in relation the heritage item curtilages.

GDA 2020 Zone 55, scale 1 : 1500, source: Six Maps 531600E Wagga Wagga Showground, Kyeamba Smith Hall & grands LEP curtilage 3.1 531500E 11 11 1 Approved CIZ CIZ extension 531400E 100 m 531300E 20)zArk 🖄 N001E119 N000EII9 N0062119

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 power provision easements 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 will have "no impacts on heritage items (including areas of archaeological sensitivity)....beyond the impacts approved under the terms of this approval" CoA 15(c).

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. <u>https://wagga.nsw.gov.au/data/assets/pdf_file/0013/112252/Wagga-</u> <u>Wagga-DCP-2010-as-amended-Section-3-Heritage-Conservation-Version-</u> 27-Final.pdf





APPENDIX C

Construction Noise and Vibration Impact Statement (CNVIS)





₩SLR

A2I | Albury to Illabo – Wagga Wagga Utility Work

Construction Noise and Vibration Impact Statement

Martinus Rail

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

Prepared by:

SLR Consulting Australia

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

SLR Project No.: 610.031317.00001

Client Reference No.: R08

6 January 2025

Revision: v1.1

Making Sustainability Happen

Revision Record

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V1.1	6 January 2025	Brandon Nguyen Khuong	Steven Luzuriaga	3-
V1.0	19 December 2024	Brandon Nguyen Khuong	Steven Luzuriaga	3-

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 daytime period of 10.00 pm to 7.00 am
LAeq(1hour)	The equivalent continuous noise for the busiest 1-hour period.



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 Areas		
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

СоА	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,	The CNVMP	
	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)		
42	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:	The CNVMP	
	 measures to reduce construction to standard ICNG hours where sensitive land uses are likely to be noise affected for more than 3 months; 		
	 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		
	 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. 		
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;	Section 2.2	
	b) 7:00am to 6:00pm Saturdays; and		
	c) at no time on Sundays or public holidays.		

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:	
	i. for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or	
	 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 <i>Assessing Vibration:</i> 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 <i>of Assessing Vibration: a technical guideline</i> (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 Out-of-Hours Work. The Protocol must be prepared in consultation with the ER, AA and EPA.	The CNVMP, Section 2.4

СоА	Requirement	Reference
	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. Iow 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; 	
	 d) 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:a) Carrying out work that if carried out during standard hours would result in	Section 2.3
	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
	 vibration criteria established using <i>the Assessing vibration: a technical guideline</i> (DEC, 2006) (for human exposure); 	
	 Australian Standard AS 2187.2 - 2006 "Explosives - Storage and Use - Use of Explosives"; 	
	 d) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and 	
	e) the vibration limits set out in the <i>German Standard DIN 4150-3:</i> <i>Structural Vibration- effects of vibration on structures</i> (for structural damage).	

СоА	Requirement	Reference		
	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.			
Ξ75	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.			
Ξ76	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.			
277	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		
278	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		
279	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		
380	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		
Ξ81	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		
	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.			
Ξ83	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		



CoA	Requirement	Reference		
	 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	Section 8.0, Section 8.2,		
	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 9.0		
E120	Before commencement of any work, a structural engineer must undertake condition surveys of all buildings, structures, utilities and the like identified in the documents listed in Condition A1 as being at risk of damage. 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 owners of the items surveyed, and no later than one (1) month before the commencement of construction.	Section 6.1		
E121	After completion of construction, condition surveys of all items for which condition surveys were undertaken in accordance with Condition E120 of this approval must be undertaken by a structural engineer. 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 three (3) months following the completion of construction.	Section 6.1		
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.			



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 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 NPfI defined time periods ¹		
Location		Daytime period	Evening period	Night-time period
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).



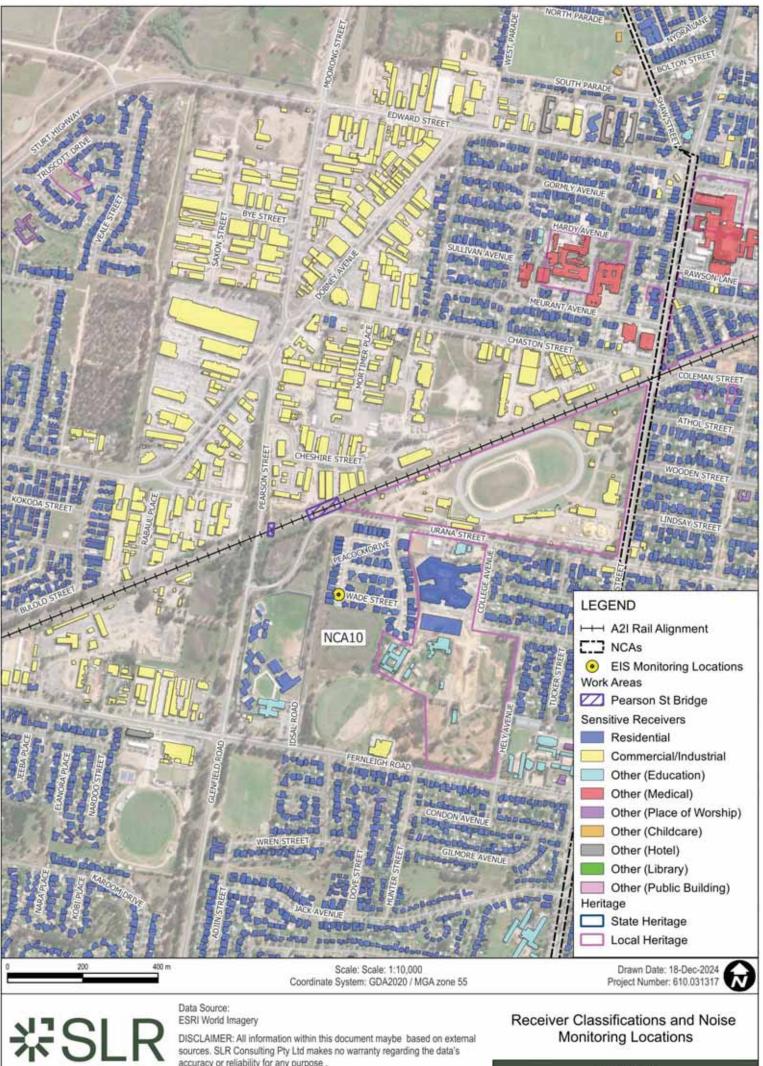
╬SLR

Data Source: ESRI World Imagery

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

FIGURE 1

VProjects-SLP0610-SV2D/610-SV2D/610-SV2D/610.031317,00001 Initiand Rail AZP Enhancement/06 SLR Data/01 CADGIS/CGIS/SLR610031317_Way



Monitoring Locations

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
Environmental Criteria for Road Traffic Noise (ECRTN) (EPA, 1999)	Contains guidance for assessing potential sleep disturbance impacts
Road Noise Policy (RNP) (DECCW, 2011)	Assessment of construction traffic impacts
BS 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**.



Sleep

NCA	NCA Noise Management Level (LAeq(15minute) - dB)				
	Approved Hours	Out of Hours ^{1,2}	disturba Screeni		

Table 3 Residential Noise Management Levels

	Approved Hours	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

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 is 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(15 (Applied whe	agement Level ^{iminute}) (dB) en the property is n 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	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-time ²
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		Dose Value ¹ s ^{1.75})
		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	Maximu	m 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 Puls	
		4 Hz to 15 Hz	15 Hz and Above
1	Reinforced or framed structures. Industrial and heavy commercial buildings	50 mm/s at 4 Hz and at	oove
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			mm/s)	
		Foundation, All Directions at a Frequency of		Topmost Floor, Horizontal	Floor Slabs, Vertical	
		1 to 10 Hz	10 to 50 Hz	50 to 100 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
2	Residential buildings and buildings of similar design and/or occupancy	5	5 to 15	15 to 20	15	20



Group	Type of Structure	Guideline Values Vibration Velocity (mm/s)				
			on, All Dire Frequency		Topmost Floor, Horizontal	Floor Slabs, Vertical
		1 to 10 Hz	10 to 50 Hz	50 to 100 Hz	All frequencies	All frequencies
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	201

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	ARTC s170 4280661	Cassidy Footbridge	This pedestrian bridge has been constructed from cast concrete with a steel pipe and wire railing fence.
footbridge			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, ARTC s170 4280250	Edmondson Street Bridge	The Wagga Wagga Railway Station is a substantial and ornate structure, built in the Victorian Free Classical style. West of the station building is the Wagga Wagga
Best Street Railway	State Heritage Register 01279, Local	Edmondson Street Bridge	footbridge ('Mothers Footbridge'), which was built in 1936. It is a simple steel girder bridge with a

Table 10 Heritage Items Nearby Construction Work Areas



Heritage Item	Listing	Nearest Work Location	Construction/Condition
Gatehouse (former)	Environment Plan I254		steel post-and-rail safety barrier and straight lateral bracing post). The footbridge is in fair condition.
Station Master's Residence (former)	State Heritage Register 01279, Local Environment	Edmondson Street Bridge	Immediately west of the station building is the Wagga Wagga Railway Museum. The museum is a single-storey brick building with a corrugated iron sheet clad roof.
	Plan 199		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, Highschool 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 in accordance with CoA E120 and E121 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

Table 11	Guideline Values for Short Term Vibration on Buried Pipewor	rk
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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 D	istance	
		Co	osmetic Damage	9	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	LAeq(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**.

ID	Scenario	Description	Total Lw
Edmond	Ison 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
W.003	Vegetation clearing	Tree clearing and trimming for works	116

Table 14 Work Scenario Descriptions



ID	Scenario	Description	Total Lw
W.004	Utility Work (Gas) - investigation and excavation	 Investigation and excavation prep fo main works 	orgas 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
Cassidy	Footbridge		·
W.010	Utility Work (Gas) protection works	 Installation of protection slab above existing gas main 	113
W.011	Utility Work (water) relocations works protection works	• Excavation and install of new waterr	main 117
Pearson	Street Bridge		·
W.012	Utility Work (gas & water) - investigation and excavation	 Investigation and excavation prep fo and watermain main works 	or gas 117
W.013	Utility Work (gas & water) - underbores	Underbore installations	111
W.014	Utility Work (gas & water) - cutovers & make good	• Works within cutover locations	112

Table 15 Scenarios and Periods of Work

ID	Scenario		Hours o	f Work		Indicative	Likely
		Approved	Out-o	of-Hours Wo	ork ⁴	Start Date	Duration
		Hours	Day OOH ¹	Evening ²	Night ³		
Edmor	ndson Street Bridge						
W.001	Site Establishment/ Demobilisation	\checkmark	-	-	-	Jan 2025	1 month
W.002	Compound Operation	✓	-	-	-	Jan 2025	7 months
W.003	Vegetation clearing	\checkmark	-	-	-	Jan 2025	1 month
W.004	Utility Work (Gas) - investigation and excavation	√	-	-	-	Feb 2025	1 month
W.005	Utility Work (Gas) - underbores	\checkmark	-	-	-	Feb 2025	1 month
W.006	Utility Work (Gas) - cutovers & make good	√	-	-	-	Feb 2025	1 week
W.007	Utility Work (66kV) (day)	\checkmark	-	-	-	Mar 2025	1 month
W.008	Utility Work (66kV) (night outage 1)	√	~	~	√	Mar 2025	1 week
W.009	Utility Work (66kV) (night outage 2)	✓	~	~	~	Jul 2025	1 week



ID	Scenario		Hours o	f Work		Indicative	Likely
		Approved	Out-o	of-Hours Wo	ork ⁴	Start Date	Duration
		Hours	Day OOH¹	Evening ²	Night ³		
Cassic	ly Footbridge						
W.010	Utility Work (Gas) protection works	\checkmark	-	-	-	Feb 2025	2 months
W.011	Utility Work (water) relocations works protection works	✓	-	-	-	Apr 2025	3 months
Pearso	on Street Bridge				•		
W.012	Utility Work (gas & water) - investigation and excavation	✓	-	-	-	Apr 2025	1 month
W.013	Utility Work (gas & water) - underbores	√	-	-	-	May 2025	2 months
W.014	Utility Work (gas & water) - cutovers & make good	✓	-	-	-	May 2025	2 months

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 N	oise Management Level	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.



Scenario										Number 4	Number of Receivers	rs					
	HNA ¹									With NN	With NML exceedance (dB) ²	ance (dB) ²	8				
		4	Approved									Out of Hours	Hours				
			Daytime			Daytime	le OOH			Eve	Evening			Night	Night-time		S Distu
		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	>Scree (NCA1 (NCA1
S																	
Establishment/Demobilisation	1	26	e	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
pound Operation	ı	5	ı		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
station clearing	8	52	6	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	e/u	n/a	n/a	n/a	n/a
y 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
y Work (Gas) - underbores	21	70	20	17 r	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
y 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	e/u	n/a	n/a	n/a	n/a
y Work (66kV) (day)	9	48	5	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	e/u	n/a	n/a	n/a	n/a
y Work (66kV) (night outage 1)	9	39	7	5 4	41	39	2	5	44	44	8	5	242	150	44	13	175
y Work (66kV) (night outage 2)	5	28	7	3	25	28	2	3	34	30	5	5	113	81	30	10	117
y Work (Gas) protection works		33	9	<u>.</u>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
y Work (water) relocations works protection s	5	58	10	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
y Work (gas & water) - investigation and vation	1	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
y Work (gas & 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
y Work (gas & water) - cutovers & make good	ı	22	ı	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		4	Approved									Out of Hours	Hours				
			Daytime			Daytime	HOO ət			Eve	Evening			Nigh	Night-time		S Distu
		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	>Scree (NCA1 (NCA1
ivers																	
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
pound Operation	n/a	~	,		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
etation 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
y Work (Gas) - investigation and excavation	n/a	6	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
y Work (Gas) - underbores	n/a	12	ω		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
y Work (Gas) - cutovers & make good	n/a	9	e		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
y Work (66kV) (day)	n/a	л О	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
y Work (66kV) (night outage 1)	n/a	e	4	-	e	4		ı	~	,	ı	1	з	~	,	ı	n/a
y Work (66kV) (night outage 2)	n/a	4	2		~	e	2	,	I	,	ı	1	7	,	1	I	n/a
y Work (Gas) protection works	n/a	17	e		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
y Work (water) relocations works protection s	n/a	17	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
y Work (gas & water) - investigation and vation	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
y Work (gas & 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
y 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

cted, based on ICNG definition (i.e. predicted LAeq(15minute) noise at residential receiver is greater than 75 dBA).

case predicted noise levels

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* and *W.0011* during approved daytime hours. A maximum of one other sensitive receivers (those closest to the works) are predicted to be affected at this level for these work scenarios. 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.
- Noise levels above the screening level for sleep disturbance and sleep awakening criteria are predicted for *W.008 and W.009*. 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**.

Cassidy Footbridge

- During approved daytime hours, 'highly intrusive' noise impacts are predicted at one residential receiver for *W.010* and four residential receivers for *W.011*. The highest noise levels and impacts would be experienced by adjacent receivers when noisy construction work is conducted nearby.
- One other sensitive receiver is predicted to experience 'highly intrusive' noise impacts during *W.011*. No 'highly intrusive' impacts are predicted for *W.010*.



• OOHW at Cassidy Footbridge are not anticipated.

Pearson Street Bridge

- No 'highly intrusive' noise impacts are predicted for residential or other sensitive receivers for all of the Pearson Street bridge work scenarios (ie *W.012*, *W.013* and *W.014*).
- OOHW at Pearson Street Bridge are not anticipated.

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 and W.009) 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/Description		Minimun	n Distance	
			Cos	metic Dan	nage	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
W.011	Cassidy Footbridge Utility Work (water) relocations works protection works	Medium Hydraulic Hammer: 900 kg (12 to 18 t excavator)	7 m	15 m	4 m	23 m
W.012	Pearson Street Bridge Utility Work (gas & water) - investigation and excavation					

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 5 Medium Hydraulic Hammer - Minimum Working Distances (Edmondson Street and Cassidy Footbridge)

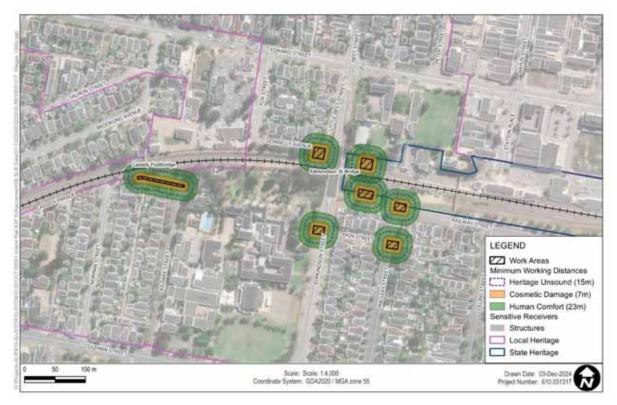


Figure 6 Medium Hydraulic Hammer - Minimum Working Distances (Pearson Street)



Figure 7 Small Hydraulic Hammer - Minimum Working Distances (Edmondson Street and Cassidy Footbridge)

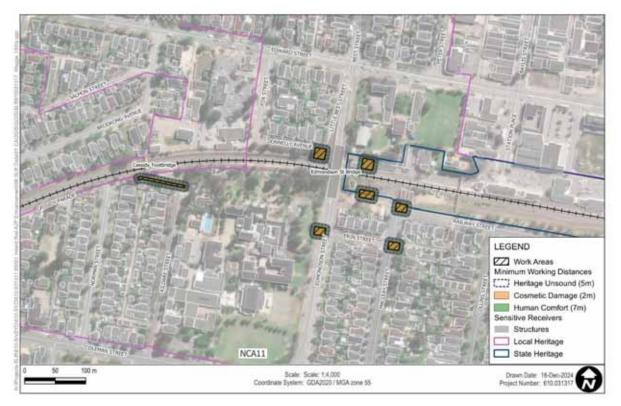
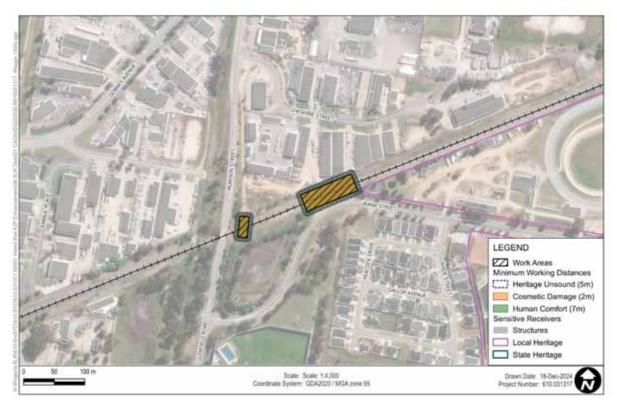


Figure 8 Small Hydraulic Hammer - Minimum Working Distances (Pearson Street)



6.1 Cosmetic Damage Assessment

Figure 5 shows that the residential building at 2 Kildare St and the garage at 1 Norman St have the potential to fall within the cosmetic damage minimum working distance for residential structures during *W.011*. **Figure 5** also 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.012*. 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.

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.

As per CoA E120, before commencement of any work, a structural engineer must undertake condition surveys of all building, structures, utilities and the like identified in the documents CoA A1 as being at risk of damage. For this CNVIS, conditions surveys (based on the medium hydraulic hammer) are required for:

- 2 Kildare St
- 10 Cheshire St
- Garage at 1 Norman St
- Four structures within the Wagga Wagga Station Yard

After completion of construction, condition surveys of all items for which condition surveys were undertaken in accordance with CoA E120 must be undertaken by a structural engineer.

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 Kildare St
- Dwelling and garage at 1 Norman St

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

As discussed in **Table 10**, Cassidy Footbridge is in good condition and 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 as per CoA E120.

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 12 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 (except 2 Kildare Street) 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? Day ¹	Potential Increase > 2dB	Potential Noise Impact	
		Existing	Existing + Proposed	(7am – 10pm)	2uB	impact	
Wagga Wagga Precir	ict						
Pearson Street bridge	e						
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/Yard, Edmondson Street bridge and Cassidy Footbridge							
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**.

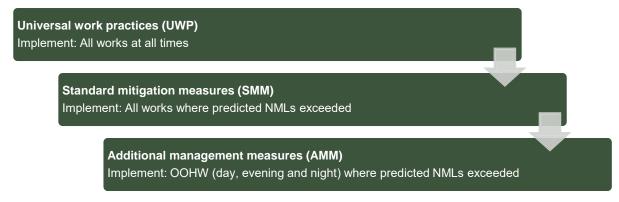
8.0 Mitigation and Management Measures

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	Best practice
possible, as outlined in Section 2.2.	CoA E69
Some unavoidable OOHW will be required due to road and rail traffic management restrictions, as outlined in Section 2.3 .	CoA E71
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
must be identified in the OOHW permit.	CoA E72
	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. Refer to Community Consultation in Section 8.5 .	Best practice CoA E76
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
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.	
Equipment that is noisy will be started away from sensitive receivers	
	I

Measure	Reference / Notes
Training	
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 mitigation measures and techniques that should be implemented.	
Training 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 measures 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.	
Tonal 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, including 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 items are operating as expected	
Dropping materials from a height will be avoided.	
Loading 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.	
Truck movements will be kept to a minimum (ie trucks are fully loaded on each trip).	
Screening	T
Install purpose-built screening or enclosures around long-term fixed plant that has the potential to impact nearby receivers	Best practice CNVF
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.	



Measure	Reference / Notes
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 hours, owners and occupiers are to be provided a schedule of potential exceedances, unless otherwise agreed by the owner and occupier.	Best practice CoA E79
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. Works will cease if the monitoring indicates vibration levels are likely to, or do, exceed the relevant cosmetic damage criteria.	
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
a) Between 08:00am – 06:00pm Monday to Friday;	
b) Between 08:00am – 01:00pm Saturday; andc) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one hour.	



Measure	Reference / Notes
Where works are required within the cosmetic damage minimum working distances, building condition surveys will be completed before and after the works to ensure no cosmetic damage has occurred.	Best practice CoA E120
Heritage status of all 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. This CNVIS should be updated prior to the commencement of works to include the location of vibration-sensitive heritage items that fall within the minimum working distance for unsound heritage structures.	CoA E121 CoA C9
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.	Best practice 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)

Cassidy Footbridge

• W.011 – Utility Work (water) relocations works protection works

Pearson Street Bridge

• W.012 Utility Work (gas & water) - investigation and excavation

In accordance with CoA E71, W.009 requires 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**.

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

Table 21 Additional Mitigation Measures

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 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.

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.

	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	5-15	Clearly audible	Any	CO1
	holidays)	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 onlog	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
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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
OOHW Evening Period	Monday – Sunday 6pm – 10pm (including public holidays)	Any	CO1, CO2	CO1, CO2, RO

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

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**.

Both work scenarios that are scheduled for OOHW for Edmondson Street Bridge, ie, *W.008* and *W.009*, 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 12 receivers with the potential to fall within the minimum working distances for Human Comfort. It is noted that one of these 12 receivers (2 Kildare St) has the potential to fall within the cosmetic damage minimum working distance for residential structures.

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**. No additional mitigation (from **Table 23**) for vibration activities is required, given the impacts will be limited to approved daytime hours only.

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**.

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 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 Bridge			
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.

8.7.1 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.

8.7.2 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.

Table 25	Indicative	Monitoring	Locations
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	Location	Туре	Monitoring	Timing		
No	ise Monitoring					
Bri • •	 ⁶ Little Best St, Wagga Wagga ⁹⁶ Railway St, Turvey Park ⁶ Kildare Catholic ⁷ Sidy Footbridge ² Kildare St, 		 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 arson Street dge 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		
	oration Monitoring	r				
Bri • •	mondson Street dge 2 Donnelly Ave, Wagga Wagga 96 Railway St, Turvey Park 23 MacLeay St, Turvey Park ssidy Footbridge 2 Kildare St, Turvey Park	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.		
	1 Norman St, Turvey Park arson Street dge 10 Cheshire St, Wagga Wagga					

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

6 January 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	Kerbside of busy street	Loud
70	Loud radio or television	
60	Department store	Moderate to
50	General Office	quiet
40	Inside private office	Quiet to
30	Inside bedroom	very quiet
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

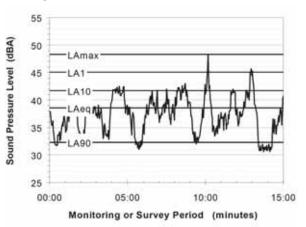
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit 10^{-12} W.

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.

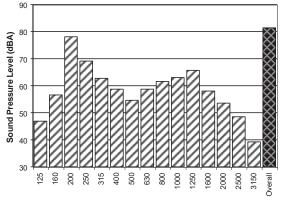
The units for frequency are Hertz (Hz), which represent the number of cycles per second.

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

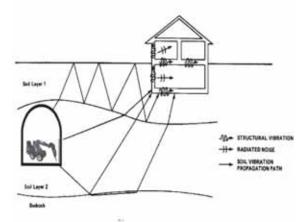
People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience 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

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Truck - Yacuum (NDD)	10	6 100%							1		1	1		1	-		1	
Truck - road truck	10	25%										1						
Truck - Medium Rigid	103	25%					-	~	-	~	-			-	-	-	-	~
Tracked Hydraulic Drilling Rig	114	100%							-									
Saw – Concrete ¹	118	25%						. 			-				-	. 		
Plate Compactor	104	100%						~		~	-			-	4	-		
loid9V tdβi	95	25%			2	2		2	2	7		3	3	-	-	. 	2	
Hand tools (electric)	102	75%								-								~
Grader	109	50%			1													
Front End Loader	113	50%			-													
Excavator 10-15T + Hammer ¹	118	30%						. 							-	.		
Excavator - Tracked (3-5 toni	06	50%							3	. 				-			~	
nnot 02) bəxərər - Tracked (20 tonn	105	50%									-							
Elevated Work Platform	97	25%					2						5					
Dynamic Track Stabiliser	113	50%																
Crane Franna	98	30%			-	1		. 		. 	-	2		-				.
Crane (mobile)		30%										2	1					
Concrete agitator truck	109	100%										-		-				
Сһеrry ріскег		30%											5					
¹ wesnied)		50%					2						1					
Backhoe (with auger)		100%							+								-	
Articulated Dump Truck		25%			-			. 	-						-	.		
Total Lw (ABb) wJ					113	104	116	117	116	112	115	113	109	113	117	117	111	112
	Sound Power Level (Lw) ²	ion (%)											(
	er Lev	utilisat			vilisatior			ation aı	Seres	s & mal		utage 1)	utage 2	n works	Iow suc	- investigation	- underbores	- cutovers &
tt.	nd Pow	Estimated utilisation (%)	ario		Demok	u		Gas) - investigation and	Gas) - underbores	cutover	day)	night or	night or	Gas) protection works	relocati	& water) -		
lipment	Sour	Esti	n Scenario	lge	hment / Demobilisation	Dperation	dearing	(Gas) - i	(Gas) - I	(Gas) - cutovers & make	(66kV) (day)	(66kV) (night outage	(66kV) (night outage 2)	(Gas) pr	(water) relocations works orks	(gas & v ion	(gas & water)	(gas & water)

ed as 'annoying' in the ICNG and requires a 5 dB correction. el data is taken from the DEFRA Noise Database, AS2436 and TfNSW Construction Noise and Vibration Guideline.



Appendix C Noise Impact Maps

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Construction Noise and Vibration Impact Statement

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accuracy or reliability for any purpose .











accuracy or reliability for any purpose .



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Enb

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

Hours Evening



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Work (66kV) (night outage 1) - Out of Hours Night-time





accuracy or reliability for any purpose .



accuracy or reliability for any purpose .



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Hours Night-time







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Work (gas & water) - investigation and excavation - Approved Daytime Hours





accuracy or reliability for any purpose .



Appendix D Receivers Triggering Additional Mitigation

A2I | Albury to Illabo – Wagga Wagga Utility Work

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w.008 - 1	Utility Work (66kV) (night outage 1)								
0.0.0		NML	NML	NML	NML	Predicted Level LAeg(15min)	Additional Mitigation	Additional Mitigation Evening	Additional Mitigation Night
	ADDRESS 9 GRANDVIEW AV, TURVEY PARK NSW 2650 16 GRANDVIEW AV, TURVEY PARK NSW 2650	Daytime 58 58	Daytime OOH 53 53	Evening 52 52	Night-time 42 42	43 43	Daytime OOH	*(>2 consecutive rest periods)	*(>2 consecutive sleep periods) CO1 CO1
212806 212810	20 GRANDVIEW AV, TURVEY PARK NSW 2650 18 GRANDVIEW AV, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 44	-	• •	CO1 CO1
212824 213044 213233	22 GRANDVIEW AV, TURVEY PARK NSW 2650 2 JARICK ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	44 43	-	•	CO1 CO1
213233 213265 213414	4 COLEMAN ST, TURVEY PARK NSW 2650 24 BEAUTY POINT AV, TURVEY PARK NSW 2650 3 COLEMAN ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 44 43	-	• •	CO1 CO1 CO1
213467 213496	9 COLEMAN ST, TURVEY PARK NSW 2650 18 BEAUTY POINT AV, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 44	-	*	CO1 CO1
213519 213533 213539	2/11 COLEMAN ST, TURVEY PARK NSW 2650 15 COLEMAN ST, TURVEY PARK NSW 2650 17 COLEMAN ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 43 43	-	= =	CO1 CO1 CO1
213609 213610	14 YOUNG ST, TURVEY PARK NSW 2650 61 FLINDERS ST, TURVEY PARK NSW 2650	58	53 53	52 52	42 42 42	43 44 44	-	* * *	CO1 CO1
213627 213634	46 COLEMAN ST, TURVEY PARK NSW 2650 2/19A COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 43	-	* *	CO1 CO1
213673 213683 213694	13 RICHARD ST, TURVEY PARK NSW 2650 63 COLLINS ST, TURVEY PARK NSW 2650 14 BEAUTY POINT AV, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	45 43 44	-	• •	C01 C01 C01
213696 213701	22 RICHARD ST, TURVEY PARK NSW 2650 57 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
213718 213735 213743	4 HILL ST, TURVEY PARK NSW 2650 42 COLEMAN ST, TURVEY PARK NSW 2650 20 RICHARD ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 52 43	-	= = =	CO1 CO1 CO1
	48 COLEMAN ST, TURVEY PARK NSW 2650 61 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42 42	43 43 45	-	* * *	C01 C01
213768 213777	44 COLEMAN ST, TURVEY PARK NSW 2650 56 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 46	-	•	CO1 CO1
213794 213800 213810	55 FLINDERS ST, TURVEY PARK NSW 2650 60 COLLINS ST, TURVEY PARK NSW 2650 23 COLEMAN ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 50 49	-	- 	CO1 CO1 CO1
213811 213821	21 COLEMAN ST, TURVEY PARK NSW 2650 59 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 45	-	•	CO1 CO1
213828 213831	29 COLEMAN ST, TURVEY PARK NSW 2650 51-53 MACLEAY ST, TURVEY PARK NSW 2650 54 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	48 49	-	* *	CO1 CO1
213841 213884 213885	34 MACLEAY ST, TURVEY PARK NSW 2650 57 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 52 45	-	• •	C01 C01 C01
213909 213918	52 FLINDERS ST, TURVEY PARK NSW 2650 49 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 49	-	•	CO1 CO1
213930 213961 213966	33 EDMONDSON ST, TURVEY PARK NSW 2650 53 FLINDERS ST, TURVEY PARK NSW 2650 28 HILL ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	56 44 43	- CO1	-	CO1 CO1 CO1
213968 213970	55 COLLINS ST, TURVEY PARK NSW 2050 32 MACLEAY ST, TURVEY PARK NSW 2650	58	53 53	52 52	42 42 42	45 54	- - CO1	- - CO1	C01 C01
213986 213994	13 YOUNG ST, TURVEY PARK NSW 2650 47 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 49	-	* *	CO1 CO1
214000 214007 214027	5 HILL ST, TURVEY PARK NSW 2650 31 EDMONDSON ST, TURVEY PARK NSW 2650 1/49 FLINDERS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 56 44	- CO1	- CO1 -	CO1 CO1 CO1
214029 214035	30 MACLEAY ST, TURVEY PARK NSW 2650 53 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	51 46	-	• •	CO1 CO1
214047 214060	47 FLINDERS ST, TURVEY PARK NSW 2650 11 YOUNG ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 43	-	*	CO1 CO1
214062 214075 214092	45 MACLEAY ST, TURVEY PARK NSW 2650 29 EDMONDSON ST, TURVEY PARK NSW 2650 54 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	50 57 49	- CO1	- CO1 -	CO1 CO1 CO1
214102 214106	51 COLLINS ST, TURVEY PARK NSW 2650 11 HILL ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 45	-	•	CO1 CO1
214111 214132	28 MACLEAY ST, TURVEY PARK NSW 2650 46 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	47 43	-	= =	CO1 CO1
214135 214146 214154	17 HILL ST, TURVEY PARK NSW 2650 15 HILL ST, TURVEY PARK NSW 2650 27 EDMONDSON ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 43 57	- - CO1	- - CO1	CO1 CO1 CO1
214156 214172	43 MACLEAY ST, TURVEY PARK NSW 2650 49 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 46	-		CO1 CO1
214173 214176 214200	52 COLLINS ST, TURVEY PARK NSW 2650 26 MACLEAY ST, TURVEY PARK NSW 2650 44 FLINDERS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 46 43	-	•	C01 C01 C01
	25 EDMONDSON ST, TURVEY PARK NSW 2650 25 HILL ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42 42	43 57 45	- CO1 -	- CO1 -	C01 C01
214255	50 COLLINS ST, TURVEY PARK NSW 2650 47 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 46	-	• •	CO1 CO1
214261	41 MACLEAY ST, TURVEY PARK NSW 2650 43 FLINDERS ST, TURVEY PARK NSW 2650 24 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	50 44 52	-	• •	CO1 CO1 CO1
214281 214307	42 FLINDERS ST, TURVEY PARK NSW 2650 23 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 58	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214324	39 MACLEAY ST, TURVEY PARK NSW 2650 48 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	51 51	-	-	CO1 CO1
	10 YOUNG ST, TURVEY PARK NSW 2650 45 COLLINS ST, TURVEY PARK NSW 2650 22 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 45 51	-	• •	CO1 CO1 CO1
214348 214361	41 FLINDERS ST, TURVEY PARK NSW 2650 40 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
214395	21 EDMONDSON ST, TURVEY PARK NSW 2650 9 RICHARD ST, TURVEY PARK NSW 2650 43 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	59 43 46	CO1 -	CO1 - -	CO1, CO2, (RO,AO)* CO1 CO1
214399 214407 214410	37 MACLEAY ST, TURVEY PARK NSW 2650 20 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53 53	52 52 52	42 42	51 50	-	•	C01 C01
214417 214427	44 COLLINS ST, TURVEY PARK NSW 2650 37-39 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 45	-	• · · · · · · · · · · · · · · · · · · ·	CO1 CO1
	10 RICHARD ST, TURVEY PARK NSW 2650 38 FLINDERS ST, TURVEY PARK NSW 2650 19 EDMONDSON ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 46 58	- - CO1	- - CO1	CO1 CO1 CO1, CO2, (RO,AO)*
214459 214479	41 COLLINS ST, TURVEY PARK NSW 2650 6 YOUNG ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 45	-		CO1 CO1
214482 214487	18 MACLEAY ST, TURVEY PARK NSW 2650 35 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 51	-	-	CO1 CO1
214488 214493 214504	3 BURWOOD ST, TURVEY PARK NSW 2650 3 YOUNG ST, TURVEY PARK NSW 2650 5 BURWOOD ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 43 43	-	= = =	CO1 CO1 CO1
214509 214512	36 FLINDERS ST, TURVEY PARK NSW 2650 42 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 48	-	-	CO1 CO1
	35 FLINDERS ST, TURVEY PARK NSW 2650 17 EDMONDSON ST, TURVEY PARK NSW 2650 16 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42 42	46 59	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214549 214551 214557	16 MACLEAY ST, TURVEY PARK NSW 2650 39 COLLINS ST, TURVEY PARK NSW 2650 33 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	52 48 52	-	-	C01 C01 C01
214567 214577	40 COLLINS ST, TURVEY PARK NSW 2650 15 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 60	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
	2 YOUNG ST, TURVEY PARK NSW 2650 33 FLINDERS ST, TURVEY PARK NSW 2650 14 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 43 52	-	=	CO1 CO1 CO1
214617 214631	37 COLLINS ST, TURVEY PARK NSW 2650 31 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53	52 52 52	42 42 42	52 48 52	-	=	C01 C01
214634 214645	38 COLLINS ST, TURVEY PARK NSW 2650 13 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 61	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
	4 RICHARD ST, TURVEY PARK NSW 2650 31 FLINDERS ST, TURVEY PARK NSW 2650 38 RAIL WAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 45 44	-	-	C01 C01 C01
214688	38 RAILWAY ST, TURVEY PARK NSW 2650 12 MACLEAY ST, TURVEY PARK NSW 2650 35 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 52 48	-	• •	C01 C01 C01
	42 RAILWAY ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	C01

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

W.008 -	Utility Work (66kV) (night outage 1)								
		NML	NML	NML	NML	Predicted Level	Additional Mitigation	Additional Mitigation Evening	Additional Mitigation Night
SLR ID 214714	ADDRESS 30 FLINDERS ST, TURVEY PARK NSW 2650	Daytime 58	Daytime OOH 53	Evening 52	Night-time 42	LAeq(15min) 46	Daytime OOH	*(>2 consecutive rest periods)	*(>2 consecutive sleep periods) CO1
214717	11 EDMONDSON ST, TURVEY PARK NSW 2650	58	53	52	42	62	C01	CO1	CO1, CO2, (RO,AO)*
214720 214727	29 MACLEAY ST, TURVEY PARK NSW 2650 3/36 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	54 50	CO1 -	CO1 -	CO1 CO1
214730 214736	50 RAILWAY ST, TURVEY PARK NSW 2650 52 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 45	-	-	CO1 CO1
214747 214748	10 MACLEAY ST, TURVEY PARK NSW 2650 29 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	52 44	-	-	CO1 CO1
214754 214768	31 COLLINS ST, TURVEY PARK NSW 2650 56 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 45	-	-	CO1 CO1
214778	9 EDMONDSON ST, TURVEY PARK NSW 2650 54 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	63 45	CO1	CO1	CO1, CO2, (RO,AO)*
214782	28 FLINDERS ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
214789 214791	58 RAILWAY ST, TURVEY PARK NSW 2650 33 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 47	-	-	CO1 CO1
214793 214794	8 MACLEAY ST, TURVEY PARK NSW 2650 27 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	49 56	- CO1		CO1 CO1
214826 214829	27 FLINDERS ST, TURVEY PARK NSW 2650 32 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 48	-	-	CO1 CO1
214831 214847	62 RAILWAY ST, TURVEY PARK NSW 2650 7 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 64	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214850 214853	29 COLLINS ST, TURVEY PARK NSW 2650 26 FLINDERS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 46	-	•	CO1 CO1
214865	6 MACLEAY ST, TURVEY PARK NSW 2650 66 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	54 46	CO1	CO1	CO1 CO1
214874 214880	68 RAILWAY ST, TURVEY PARK NSW 2650 27 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 51	-	-	CO1 CO1
214901	25 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	60	C01	CO1	CO1, CO2, (RO,AO)*
214904 214911	5 EDMONDSON ST, TURVEY PARK NSW 2650 72 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	66 47	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
214915 214920	23 FLINDERS ST, TURVEY PARK NSW 2650 30 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 54	- CO1	CO1	CO1 CO1
214921 214926	1 KINDRA LANE, TURVEY PARK NSW 2650 4 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 55	- CO1	CO1 CO1	CO1 CO1
214934 214939	25 COLLINS ST, TURVEY PARK NSW 2650 23 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	51 57	- CO1	- CO1	CO1 CO1
214959 214961	3 EDMONDSON ST, TURVEY PARK NSW 2650 74 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	69 52	CO1, CO2		CO1, CO2, RO, (AO, AltA)* CO1
214975	21 FLINDERS ST, TURVEY PARK NSW 2650 23 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	51 59	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214984	23 COLLINS ST, TURVEY PARK NSW 2650 2 MACLEAY ST, TURVEY PARK NSW 2650	58	53	52	42	50	-	-	CO1
214990 215001	76 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	65 51	CO1 -		CO1, CO2, (RO,AO)* CO1
215023 215032	1 EDMONDSON ST, TURVEY PARK NSW 2650 3/21 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	71 52	CO1, CO2 -	CO1, CO2 -	CO1, CO2, RO, (AO, AltA)* CO1
215072 215077	82 RAILWAY ST, TURVEY PARK NSW 2650 80 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	57 54	CO1 CO1	CO1 CO1	CO1 CO1
215078 215108	84 RAILWAY ST, TURVEY PARK NSW 2650 86 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	57 56	CO1 CO1	CO1 CO1	CO1 CO1
215126 215132	88 RAILWAY ST, TURVEY PARK NSW 2650 90 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	57 57	CO1 CO1	C01 C01	CO1 CO1
215147	12 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	45	-	-	CO1
215151 215160	94 RAILWAY ST, TURVEY PARK NSW 2650 92 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	59 58	CO1 CO1	C01 C01	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215161 215163	96 RAILWAY ST, TURVEY PARK NSW 2650 1 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	60 64	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215180 215190	3 ERIN ST, TURVEY PARK NSW 2650 5 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	65 66	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215201 215216	7 ERIN ST, TURVEY PARK NSW 2650 9 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	67 73	CO1 CO1, CO2	CO1 CO1, CO2	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
215217 215219	10 KILDARE ST, TURVEY PARK NSW 2650 11 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 75	- CO1, CO2	- CO1, CO2	CO1 CO1, CO2, RO, (AO, AltA)*
215283	8 KILDARE ST, TURVEY PARK NSW 2650 6 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	44 48	-	-	CO1 CO1
215356	3 NORMAN ST, TURVEY PARK NSW 2650 4 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47	-	-	CO1 CO1
215403	1 NORMAN ST, TURVEY PARK NSW 2650	58	53	52	42	44	-	-	CO1
215412 215460	2 KILDARE ST, TURVEY PARK NSW 2650 48 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 44	-	= =	C01 C01
215491 215499	46 BROOKONG AV, WAGGA WAGGA NSW 2650 44 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
215551 215570	14 STATION PL, WAGGA WAGGA NSW 2650 36 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	57 43	- CO1	CO1 -	CO1 CO1
215618 215654	32 BROOKONG AV, WAGGA WAGGA NSW 2650 30 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	C01 C01
215689	6-10 STATION PL, WAGGA WAGGA NSW 2650 2 DONNELLY AV, WAGGA WAGGA NSW 2650	45 58	45 53	- 52	- 42	57 82	CO1 CO1, CO2	- CO1, CO2, (RO)*	- CO1, CO2, RO, (AO, AltA)*
215717 215724	BUILDING 3 UNIT 105 1 FLINDERS ST, WAGGA WAG 4 DONNELLY AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	45 75	- CO1, CO2	- CO1, CO2	CO1 CO1, CO2, RO, (AO, AltA)*
215725	6 DONNELLY AV, WAGGA WAGGA NSW 2650 8 DONNELLY AV, WAGGA WAGGA NSW 2650 8 DONNELLY AV, WAGGA WAGGA NSW 2650	58	53	52 52	42 42 42	64	C01 C01	CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215731 215746	12 DONNELLY AV, WAGGA WAGGA NSW 2650	58	53 53	52	42	63 61	C01	C01	CO1, CO2, (RO,AO)*
215748 215749	104 EDWARD ST, WAGGA WAGGA NSW 2650 22 BROOKONG AV, WAGGA WAGGA NSW 2650	60 58	60 53	60 52	45 42	48 49	-	-	CO1 CO1
215750 215760	10 DONNELLY AV, WAGGA WAGGA NSW 2650 2-4 STATION PL, WAGGA WAGGA NSW 2650	58 45	53 45	52	42	63 49	CO1 CO1	CO1 -	CO1, CO2, (RO,AO)* -
215794 215799	1 FLINDERS ST, WAGGA WAGGA NSW 2650 2 LITTLE BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 83	- CO1, CO2	- CO1, CO2, (RO)*	CO1 CO1, CO2, RO, (AO, AltA)*
215807 215809	23 BROOKONG AV, WAGGA WAGGA NSW 2650 104 EDWARD ST, WAGGA WAGGA NSW 2650	58	53 60	52 60	42	44	-	-	CO1 CO1
215820 215835	21 BROOKONG AV, WAGGA WAGGA NSW 2650 1 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44 63	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215836	19 BROOKONG AV, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
215843 215846	17 BROOKONG AV, WAGGA WAGGA NSW 2650 4 LITTLE BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 83	- CO1, CO2	- CO1, CO2, (RO)*	CO1 CO1, CO2, RO, (AO, AltA)*
215849 215874		58 58	53 53	52 52	42 42	47 54	- CO1	- CO1	C01 C01
215888 215892	15 BROOKONG AV, WAGGA WAGGA NSW 2650 6 LITTLE BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 86	- CO1, CO2	- CO1, CO2, (RO)*	CO1 CO1, CO2, RO, (AO, AltA)*
215908 215924	3 FOX ST, WAGGA WAGGA NSW 2650 11 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	64 43	CO1 -	CO1	CO1, CO2, (RO,AO)* CO1
215925 215933	140 EDWARD ST, WAGGA WAGGA NSW 2650 8 LITTLE BEST ST, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	66 82	CO1 CO1, CO2	- CO1, CO2, (RO)*	- CO1, CO2, RO, (AO, AltA)*
215933 215942 215956	9 BROOKONG AV, WAGGA WAGGA NSW 2050 188 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	46	-	-	C01 C01
215984	5 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	63	- CO1	- CO1	CO1, CO2, (RO,AO)*
216006 216024	7 BROOKONG AV, WAGGA WAGGA NSW 2650 12 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 45	-	-	CO1 CO1
216026 216053	188 EDWARD ST, WAGGA WAGGA NSW 2650 6 SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 43	-	-	CO1 CO1
216060 216073	156 EDWARD ST, WAGGA WAGGA NSW 2650 3/12 SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	73 43	CO1, CO2 -	CO1, CO2 -	CO1, CO2, RO, (AO, AltA)* CO1
216085	158 EDWARD ST, WAGGA WAGGA NSW 2650 4 SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	67 43	C01	- CO1 -	CO1, CO2, (RO,AO)* CO1
216094	160 EDWARD ST, WAGGA WAGGA NSW 2650 162 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53 53	52 52 52	42 42 42	43 66 54	- CO1 CO1	- CO1 CO1	C01, C02, (R0,A0)* C01
216103	164 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	54	C01 C01	C01	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	51 45	-	• •	C01 C01
216117 216122	166 EDWARD ST, WAGGA WAGGA NSW 2650 2 SALMON ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	53 45	-	CO1 -	CO1 CO1
216127 216128	8 BROOKONG AV, WAGGA WAGGA NSW 2650 170 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 51	-	•	CO1 CO1
216165 216181	8 SALMON ST, WAGGA WAGGA NSW 2650 2 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	45	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
216186	127 EDWARD ST, WAGGA WAGGA NSW 2650	60	60	60	42	51			C01, C02, (R0,A0)
	IMER: Address data within this document is based on exte								

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

11.000 (Jtility Work (66kV) (night outage 1)		1						
01 D 10		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
	ADDRESS 21 MURRAY ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	*(>2 consecutive sleep periods)
216245	4 PETER ST, WAGGA WAGGA NSW 2650 131A EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	60 63	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
216264	196 EDWARD ST, WAGGA WAGGA NSW 2650 22 MURRAY ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 43	-	-	C01 C01
216281	198 EDWARD ST, WAGGA WAGGA NSW 2650 133 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 63	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
216292	6 PETER ST, WAGGA WAGGA NSW 2650 202 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	54 48	CO1 -	CO1 -	CO1 CO1
216298	206 EDWARD ST, WAGGA WAGGA NSW 2650 153 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 64	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
216315	23 MURRAY ST, WAGGA WAGGA NSW 2650 8 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 52	-	-	CO1 CO1
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
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	C01 -	-	CO1, CO2, (RO,AO)* CO1
	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	10 PETER ST, WAGGA WAGGA NSW 2050 10 PETER ST, WAGGA WAGGA NSW 2050 1/173 EDWARD ST, WAGGA WAGGA NSW 2050	58 58	53 53	52 52 52	42 42 42	48 52	-	-	C01 C01
	222 EDWARD ST, WAGGA WAGGA NSW 2050 WOMBOY 5/165 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53	52 52 52	42 42 42	43	- - CO1	- - CO1	CO1 CO1, CO2, (RO,AO)*
216404	8 BEST ST, WAGGA WAGGA NSW 2650 9 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42 42	63 60	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
216434	177 EDWARD ST, WAGGA WAGGA NSW 2650 12 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	49		-	CO1 CO1
216448	175 EDWARD ST, WAGGA WAGGA NSW 2650 179 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	50 48	-	-	CO1 CO1
216471 216472	181 EDWARD ST, WAGGA WAGGA NSW 2650 173 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 49	-	-	C01 C01
216480	189 EDWARD ST, WAGGA WAGGA NSW 2650 12 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48 53	-	- CO1	C01 C01
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	14 PETER ST, WAGGA WAGGA NSW 2650 7 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	51 51	-	-	CO1 CO1
216540	2/4-6 THORNE ST, WAGGA WAGGA NSW 2650 14 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 54	- CO1	- CO1	CO1 CO1
	13 BEST ST, WAGGA WAGGA NSW 2650 9 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	60 48	CO1 -	- CO1	CO1, CO2, (RO,AO)* CO1
216561 216564	20 PETER ST, WAGGA WAGGA NSW 2650 10 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	53 48	-	- CO1	CO1 CO1
216587	16 BEST ST, WAGGA WAGGA NSW 2650 4/11 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	55 48	CO1 -	CO1 -	CO1 CO1
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)*
	2/11 FOX ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 49	-	-	C01 C01
216642	22 PETER ST, WAGGA WAGGA NSW 2650 12 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	48	-	-	C01 C01
216649	18 BEST ST, WAGGA WAGGA NSW 2650 4/11 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	57 48	CO1 -	-	C01 C01
216651 216655	10 THORNE ST, WAGGA WAGGA NSW 2650 215-217 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 44	•	-	C01 C01
216657 216662 216668	1/11 FOX ST, WAGGA WAGGA NSW 2650 215A EDWARD ST, WAGGA WAGGA NSW 2650 19 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	44 44 49	-	• •	C01 C01
	11 THORNE ST, WAGGA WAGGA NSW 2050 24 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 47	-	- -	CO1 CO1 CO1
216680 216683	219 EDWARD ST, WAGGA WAGGA NSW 2050 14 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	47 43 48	-	- -	C01 C01
216694	12 THORNE ST, WAGGA WAGGA NSW 2650 221 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	45	-	-	CO1 CO1
216700	20 BEST ST, WAGGA WAGGA NSW 2650 225 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	56 43	CO1 -	CO1	CO1 CO1
216721	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
	26 PETER ST, WAGGA WAGGA NSW 2650 16 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 47	-	-	CO1 CO1
216774	14 THORNE ST, WAGGA WAGGA NSW 2650 15 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 45	-	-	CO1 CO1
216781	28 PETER ST, WAGGA WAGGA NSW 2650 24 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	49 51	-	-	CO1 CO1
216798	15 THORNE ST, WAGGA WAGGA NSW 2650 23 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 55	- CO1	- CO1	C01 C01
216839	20 FOX ST, WAGGA WAGGA NSW 2650 17 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 43	-	-	C01 C01
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 -	-	C01 C01
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 42	47 46 43	-	-	CO1 CO1 CO1
216926	28 BEST ST, WAGGA WAGGA NSW 2650 19 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 54 46	CO1	- CO1	C01 C01
216934	32 PETER ST, WAGGA WAGGA NSW 2650 28 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	48 48 46	-	-	C01 C01
216966	23 FOX ST, WAGGA WAGGA NSW 2650 30 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46	-	- - CO1	CO1 CO1
216991	22 THORNE ST, WAGGA WAGGA NSW 2650 29 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 53	-	- CO1	C01 C01
217012 217019	34 PETER ST, WAGGA WAGGA NSW 2650 30 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 46	-	-	C01 C01
217027 217038	25 FOX ST, WAGGA WAGGA NSW 2650 32 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 53	-	- CO1	CO1 CO1
217052	24 THORNE ST, WAGGA WAGGA NSW 2650 31 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 53	-	- CO1	C01 C01
217067	27 FOX ST, WAGGA WAGGA NSW 2650 36 PETER ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 43	-	-	C01 C01
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	-	-	C01 C01
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	-	-	C01 C01
217118	33 BEST ST, WAGGA WAGGA NSW 2650 40 PETER ST, WAGGA WAGGA NSW 2650 25 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	54 43	CO1 -	-	CO1 CO1
217129	25 THORNE ST, WAGGA WAGGA NSW 2650 34 FOX ST, WAGGA WAGGA NSW 2650 36 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	45 45 52	-	- - -	C01 C01
217161	36 BEST ST, WAGGA WAGGA NSW 2650 37 PETER ST, WAGGA WAGGA NSW 2650 28 THORNE ST, WAGGA WAGGA NSW 2650	58 58 58	53 53	52 52	42 42 42	52 45 43	-	-	C01 C01
217174	28 THORNE ST, WAGGA WAGGA NSW 2650 36 FOX ST, WAGGA WAGGA NSW 2650 35 BEST ST, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	43 45 53	-	- - CO1	C01 C01 C01
217184	70 MORGAN ST, WAGGA WAGGA NSW 2650 26 OATES AV, WAGGA WAGGA NSW 2650	58 60 58	60 53	60 52	42 45 42	46 43	-	-	C01 C01
217199	39 PETER ST, WAGGA WAGGA NSW 2650 40 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42 42	43 45 43	-	-	C01 C01
217223 217225	38A FOX ST, WAGGA WAGGA NSW 2650 30 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 44 43	-	-	C01 C01
217244	42 PETER ST, WAGGA WAGGA NSW 2650 41 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	44 46	-	-	C01 C01
217261	38B FOX ST, WAGGA WAGGA NSW 2650 42 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44 47	-	-	C01 C01
217279	32 THORNE ST, WAGGA WAGGA NSW 2650 42 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 47	-	-	C01 C01
	40 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	C01

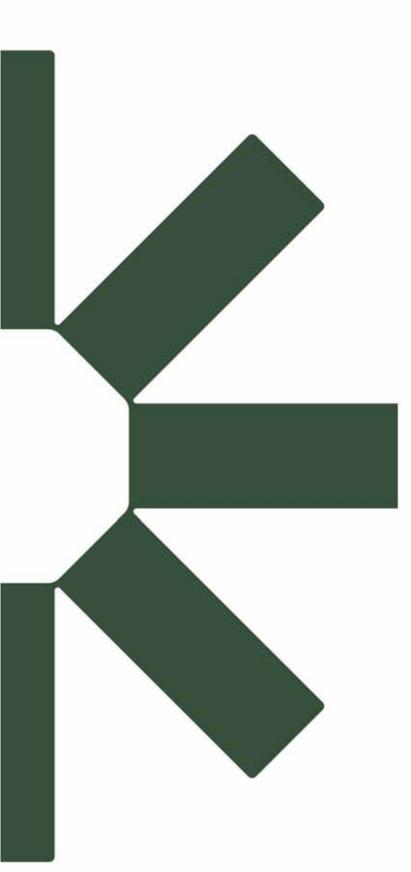
DISCLAIMER: Address data within this document is based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.

								Additional Mitigation	Additional Mitigation
LR 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 perio
	46 PETER ST, WAGGA WAGGA NSW 2650	58	53	52	42	45	-	-	CO1
7323	34 THORNE ST, WAGGA WAGGA NSW 2650 44 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	43 50	-	-	C01 C01
7357		58	53	52	42	46	-	-	C01
	41 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	52	-	-	C01
7382	42 FOX ST, WAGGA WAGGA NSW 2650 102 MORGAN ST, WAGGA WAGGA NSW 2650	58	53	52	42 42	43 44	-	-	CO1
7392	2/39 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44	-	-	CO1 CO1
	46 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	50	-	-	CO1
7424	38 THORNE ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	CO1
7432	43 BEST ST, WAGGA WAGGA NSW 2650 44 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	50 43	-	-	CO1 CO1
7445	1/48 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	50	-	-	C01
7460	120 MORGAN ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	C01
'462 '499	45 BEST ST, WAGGA WAGGA NSW 2650 50 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	49 49	-	-	CO1 CO1
600	113 MORGAN ST, WAGGA WAGGA NSW 2050	58	53	52	42	49	-	-	C01
7620	115 MORGAN ST, WAGGA WAGGA NSW 2650	58	53	52 52	42	45	-	-	CO1
7641	49 BEST ST, WAGGA WAGGA NSW 2650	58	53		42	48	-	-	CO1
7650 7660	158 MORGAN ST, WAGGA WAGGA NSW 2650 54 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42 42	43 44	-	-	C01 C01
7680	51 BEST ST, WAGGA WAGGA NSW 2050	58 58	53 53	52 52	42	49	-	-	C01
743	55 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	49	-	-	CO1
755	60 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	C01
7759	56 FOX ST, WAGGA WAGGA NSW 2650 57 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 47	-	-	CO1 CO1
792	62 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
7797	3/53 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	CO1
7808	59 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	47	-	-	CO1
7831 7833	64 BEST ST, WAGGA WAGGA NSW 2650 61 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	47	-	-	C01 C01
7859	63 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	46	-	-	C01
'863	66 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	49	-	-	CO1
866	58 THORNE ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	C01
7882	65 BEST ST, WAGGA WAGGA NSW 2650 68 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	46 46	-	-	CO1 CO1
7915	67 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	48	-	-	C01
7942	69 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	45	-	-	CO1
7966	2/74 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	46	-	-	C01
7971 7992	73 BEST ST, WAGGA WAGGA NSW 2650 75 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	45 45	-	-	CO1 CO1
3047	79 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	C01
3074	78 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	CO1
3081 3105	81 BEST ST, WAGGA WAGGA NSW 2650 80 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	44	-	-	C01 C01
3138	82 BEST ST, WAGGA WAGGA NSW 2650 82 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	45	-	-	C01
3238	84 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
3341	90 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	CO1
3375 3548	92 BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 43	-	-	CO1 CO1
8363	109 BEST ST, WAGGA WAGGA NSW 2650 244-248 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	C01
8530	10 SALMON ST, WAGGA WAGGA NSW 2650	58	53	52	42	45	-	-	CO1
8649	24-26 BROOKONG AV, WAGGA WAGGA NSW 2650	58	53	52	42	48	-	-	CO1
8869	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 26 58 BEST ST, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	67 48	CO1	-	- CO1
	27 BEST ST, WAGGA WAGGA NSW 2050 27 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	56	- CO1	- CO1	C01
8990	8 PETER ST, WAGGA WAGGA NSW 2650	58	53	52	42	57	CO1	CO1	CO1
9034	2/56 COLLINS ST. TURVEY PARK NSW 2650	58	53	52	42	50	-	-	CO1
9117	32-34 FLINDERS ST, TURVEY PARK NSW 2650 140 EDWARD ST, WAGGA WAGGA NSW 2650	58 55	53 55	52	42	43 76	- CO1, CO2	-	C01
0632	140 EDWARD ST, WAGGA WAGGA NSW 2650	55	55			69	CO1	-	-
0655	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 26	55	55 55	55	-	59	CO1	CO1	-
	4/4-6 THORNE ST, WAGGA WAGGA NSW 2650	58	53	52	42	47	-	-	C01
1562	4/4-6 THORNE ST, WAGGA WAGGA NSW 2650 4-6 THORNE ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42	48	t.	-	C01 C01
	209A EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	46	-	-	C01
1585	5/36 COLLINS ST, TURVEY PARK NSW 2650	58	53	52	42	50	-	-	CO1
1586	6/36 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52	42 42	50 50	-	-	C01
	6/36 COLLINS ST, TURVEY PARK NSW 2650 36 COLLINS ST, TURVEY PARK NSW 2650	58	53	52 52	42 42	50 47	-	-	CO1 CO1
1589	BUILDING 1 UNIT 102 1 FLINDERS ST, WAGGA WAG	58	53	52	42	47	-	-	C01
1673	2/48 BEST ST, WAGGA WAGGA NSW 2650	58	53	52 52	42	43	-	-	CO1
1674	54 BEST ST, WAGGA WAGGA NSW 2650	58	53		42	48	-	-	CO1
1750	1 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	67 43	CO1	CO1	CO1, CO2, (RO,AO)* CO1
1751	1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	43	-	-	C01
1752	1 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	73	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
1753	1 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	46	-	-	C01
1755	1 KILDARE ST, TURVEY PARK NSW 2650 1 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 44	-	-	CO1 CO1
1757	1 KILDARE ST, TURVET PARK NSW 2050	58	53	52	42	44	-	-	C01
	1 KILDARE ST, TURVEY PARK NSW 2650	58	53	52	42	68	CO1	CO1, CO2	CO1, CO2, RO, (AO, AltA)*

W.009 - l	Jtility Work (66kV) (night outage 2)								
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)
213735	46 COLEMAN ST, TURVEY PARK NSW 2650 42 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 50	-	-	C01 C01
213746 213768 213800	48 COLEMAN ST, TURVEY PARK NSW 2650 44 COLEMAN ST, TURVEY PARK NSW 2650 60 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	48 49 46	-	-	CO1 CO1 CO1
213800 213804 213810	52 COLEMAN ST, TURVEY PARK NSW 2050 23 COLEMAN ST, TURVEY PARK NSW 2650 23 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42 42	40 47 45	-	-	C01 C01
213811 213814	21 COLEMAN ST, TURVET PARK NSW 2650 54 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	43 45	-	- -	C01 C01
213818 213828	50 COLEMAN ST, TURVEY PARK NSW 2650 29 COLEMAN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	43 44	-	-	CO1 CO1
213831 213884	51-53 MACLEAY ST, TURVEY PARK NSW 2650 34 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	45 48	-	-	CO1 CO1
213918 213930	49 MACLEAY ST, TURVEY PARK NSW 2650 33 EDMONDSON ST, TURVEY PARK NSW 2650	<u>58</u> 58	53 53	52 52	42 42	45 52	-	-	CO1 CO1
213970 213994	32 MACLEAY ST, TURVEY PARK NSW 2650 47 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	50 45	-	•	CO1 CO1
214007 214029	31 EDMONDSON ST, TURVEY PARK NSW 2650 30 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 47	-	CO1 -	C01 C01
214062 214075 214092	45 MACLEAY ST, TURVEY PARK NSW 2650 29 EDMONDSON ST, TURVEY PARK NSW 2650 54 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	46 54 45	- CO1	- CO1	CO1 CO1 CO1
214092 214111 214154	28 MACLEAY ST, TURVEY PARK NSW 2650 27 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42 42	45 45 55	- - CO1	- - CO1	C01 C01
214156	43 MACLEAY ST, TURVEY PARK NSW 2650 52 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 44	-	-	CO1 CO1
214233 214254	25 EDMONDSON ST, TURVEY PARK NSW 2650 50 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	56 45	CO1	CO1	CO1 CO1
214258 214264	41 MACLEAY ST, TURVEY PARK NSW 2650 24 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 48	-	-	CO1 CO1
214307 214320	23 EDMONDSON ST, TURVEY PARK NSW 2650 39 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	57 47	- CO1	CO1 -	CO1 CO1
214324 214338	48 COLLINS ST, TURVEY PARK NSW 2650 22 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 49	-	-	CO1 CO1
214373 214407	21 EDMONDSON ST, TURVEY PARK NSW 2650 37 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	58 47	-	-	CO1, CO2, (RO,AO)* CO1
214410 214417	20 MACLEAY ST, TURVEY PARK NSW 2650 44 COLLINS ST, TURVEY PARK NSW 2650 40 FDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 44	-	-	CO1 CO1 CO1 CO2 (PO AO)*
214443 214459 214482	19 EDMONDSON ST, TURVEY PARK NSW 2650 41 COLLINS ST, TURVEY PARK NSW 2650 18 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	58 43 49	CO1 - -	- -	CO1, CO2, (RO,AO)* CO1 CO1
214482 214487 214512	35 MACLEAY ST, TURVEY PARK NSW 2650 35 MACLEAY ST, TURVEY PARK NSW 2650 42 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42 42	49 47 44	-	• •	C01 C01
214512 214519 214549	17 EDMONDSON ST, TURVET PARK NSW 2050 17 EDMONDSON ST, TURVEY PARK NSW 2050 16 MACLEAY ST, TURVEY PARK NSW 2050	58 58	53 53 53	52 52 52	42 42 42	60 48	- CO1 -	- CO1 -	C01, C02, (R0,A0)* C01
214551 214557	39 COLLINS ST, TURVEY PARK NSW 2650 33 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 48	-	-	CO1 CO1
214567 214577	40 COLLINS ST, TURVEY PARK NSW 2650 15 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 64	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214608 214612	ERIN EARTH 1 KILDARE ST, TURVEY PARK NSW 265 14 MACLEAY ST, TURVEY PARK NSW 2650	55 58	55 53	- 52	- 42	57 54	CO1 CO1	- CO1	- CO1
214617 214631	37 COLLINS ST, TURVEY PARK NSW 2650 31 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 48	-	-	CO1 CO1
214634 214645	38 COLLINS ST, TURVEY PARK NSW 2650 13 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 63	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214688 214689	12 MACLEAY ST, TURVEY PARK NSW 2650 35 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	48 44	-	-	CO1 CO1
214717 214720 214727	11 EDMONDSON ST, TURVEY PARK NSW 2650 29 MACLEAY ST, TURVEY PARK NSW 2650 3/36 COLLINS ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	66 50 46	CO1 -	-	CO1, CO2, (RO,AO)* CO1 CO1
214727 214747 214754	10 MACLEAY ST, TURVEY PARK NSW 2650 31 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42 42	40 48 44	-	- -	CO1 CO1
214778	9 EDMONDSON ST, TURVEY PARK NSW 2650 33 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	67 43	CO1	CO1	CO1, CO2, (RO,AO)* CO1
214793 214794	8 MACLEAY ST, TURVEY PARK NSW 2650 27 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	53 52	-	CO1 -	CO1 CO1
214829 214847	32 COLLINS ST, TURVEY PARK NSW 2650 7 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	44 67	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
214865 214874	6 MACLEAY ST, TURVEY PARK NSW 2650 68 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	56 43	CO1 -	CO1 -	CO1 CO1
214880 214901	27 COLLINS ST, TURVEY PARK NSW 2650 25 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 56	- CO1	- CO1	CO1 CO1
214904 214911	5 EDMONDSON ST, TURVEY PARK NSW 2650 72 RAILWAY ST, TURVEY PARK NSW 2650 30 COLLINS ST, TURVEY PARK NSW 2650	58 58	53 53 53	52 52	42 42 42	67 43 50	CO1 -	-	CO1, CO2, (RO,AO)* CO1 CO1
	1 KINDRA LANE, TURVEY PARK NSW 2650 4 MACLEAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	50 49 54	- - CO1	- - CO1	C01 C01
214934 214939	25 COLLINS ST, TURVEY PARK NSW 2650 23 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 53	-	- CO1	C01 C01
214959 214961	3 EDMONDSON ST, TURVEY PARK NSW 2650 74 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	66 48	CO1 -	CO1 -	CO1, CO2, (RO,AO)* CO1
214975 214981	21 FLINDERS ST, TURVEY PARK NSW 2650 23 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 55	- CO1	- CO1	CO1 CO1
214984 214990	23 COLLINS ST, TURVEY PARK NSW 2650 2 MACLEAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	46 61	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215001 215023	76 RAILWAY ST, TURVEY PARK NSW 2650 1 EDMONDSON ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	47 67	- CO1	- CO1	CO1 CO1, CO2, (RO,AO)*
215032 215072 215077	3/21 COLLINS ST, TURVEY PARK NSW 2650 82 RAILWAY ST, TURVEY PARK NSW 2650 80 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	48 53	-	- CO1	CO1 CO1
215077 215078 215108	80 RAILWAY ST, TURVEY PARK NSW 2650 84 RAILWAY ST, TURVEY PARK NSW 2650 86 RAILWAY ST, TURVEY PARK NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	50 53 52	-	- CO1 -	CO1 CO1 CO1
215108 215126 215132	88 RAILWAY ST, TURVEY PARK NSW 2650 88 RAILWAY ST, TURVEY PARK NSW 2650 90 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42 42	53 53	-	- CO1 CO1	C01 C01
215152 215151 215160	94 RAILWAY ST, TURVEY PARK NSW 2650 92 RAILWAY ST, TURVEY PARK NSW 2650 92 RAILWAY ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	55 54	CO1 CO1	C01 C01	C01 C01
215160 215161 215163	96 RAILWAY ST, TURVEY PARK NSW 2650 1 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52 52	42 42	56 60	CO1 CO1	C01 C01	CO1 CO1, CO2, (RO,AO)*
215180 215190	3 ERIN ST, TURVEY PARK NSW 2650 5 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	61 62	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215201 215216	7 ERIN ST, TURVEY PARK NSW 2650 9 ERIN ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42 42	63 69	CO1 CO1, CO2	CO1 CO1, CO2	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
215219 215326	11 ERIN ST, TURVEY PARK NSW 2650 6 KILDARE 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 215365	3 NORMAN ST, TURVEY PARK NSW 2650 4 KILDARE ST, TURVEY PARK NSW 2650	58 58	53 53	52 52	42	43 47	-	-	CO1 CO1
215412 215551 215689	2 KILDARE ST, TURVEY PARK NSW 2650 14 STATION PL, WAGGA WAGGA NSW 2650 6-10 STATION PL, WAGGA WAGGA NSW 2650	58 58 45	53 53 45	52 52	42	44 53 53	- - CO1	- CO1	CO1 CO1
215689 215708 215724	6-10 STATION PL, WAGGA WAGGA NSW 2650 2 DONNELLY AV, WAGGA WAGGA NSW 2650 4 DONNELLY AV, WAGGA WAGGA NSW 2650	45 58 58	45 53 53	- 52 52	- 42 42	53 78 71	CO1, CO2 CO1, CO2 CO1, CO2	- CO1, CO2, (RO)* CO1, CO2	- CO1, CO2, RO, (AO, AltA)* CO1, CO2, RO, (AO, AltA)*
215724 215725 215731	4 DONNELLY AV, WAGGA WAGGA NSW 2650 6 DONNELLY AV, WAGGA WAGGA NSW 2650 8 DONNELLY AV, WAGGA WAGGA NSW 2650	58 58 58	53 53 53	52 52 52	42 42 42	60 59	C01, C02 C01 C01	CO1 CO1	CO1, CO2, RO, (AO, AIA)* CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
215746 215749	12 DONNELLY AV, WAGGA WAGGA NSW 2650 12 DONNELLY AV, WAGGA WAGGA NSW 2650 22 BROOKONG AV, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	59 57 45	CO1 -	C01 -	CO1 CO1
215750 215799	10 DONNELLY AV, WAGGA WAGGA NSW 2650 2 LITTLE BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52 52	42 42 42	43 59 79	- CO1 CO1, CO2	- CO1 CO1, CO2, (RO)*	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
215835 215846	1 FOX ST, WAGGA WAGGA NSW 2650 4 LITTLE BEST ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	59 79	CO1 CO1, CO2	C01 C01, C02, (R0)*	CO1, CO2, (RO,AO)* CO1, CO2, RO, (AO, AltA)*
215849 215874	18 BROOKONG AV, WAGGA WAGGA NSW 2650 188 EDWARD ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	43 50	-	-	CO1 CO1
215892 215908	6 LITTLE BEST ST, WAGGA WAGGA NSW 2650 3 FOX ST, WAGGA WAGGA NSW 2650	58 58	53 53	52 52	42 42	82 60	CO1, CO2 CO1	CO1, CO2, (RO)* CO1	CO1, CO2, RO, (AO, AltA)* CO1, CO2, (RO,AO)*
215925 215933	140 EDWARD ST, WAGGA WAGGA NSW 2650 8 LITTLE BEST ST, WAGGA WAGGA NSW 2650	55 58	55 53	- 52	- 42	62 78	CO1 CO1, CO2	- CO1, CO2, (RO)*	- CO1, CO2, RO, (AO, AltA)*
215956	188 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	46	-	-	C01

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

b b	W.009 - L	Jtility Work (66kV) (night outage 2)								
Dec. Dec. <thdec.< th=""> Dec. Dec. <th< th=""><th></th><th></th><th>NML</th><th>NML</th><th>NML</th><th>NML</th><th>Predicted Level</th><th>Additional Mitigation</th><th></th><th></th></th<></thdec.<>			NML	NML	NML	NML	Predicted Level	Additional Mitigation		
Sec. Sec. <th< th=""><th></th><th></th><th></th><th>-</th><th>-</th><th>-</th><th></th><th></th><th></th><th>*(>2 consecutive sleep periods)</th></th<>				-	-	-				*(>2 consecutive sleep periods)
1.50. 0.00000000000000000000000000000000000	216060	156 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42		CO1, CO2		CO1, CO2, RO, (AO, AltA)*
	216094	160 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	62			CO1, CO2, (RO,AO)*
11.10 1000000000000000000000000000000000000	216103	164 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	50	-	-	CO1
International and antibal antitantibal antitantibal antibal antibal antibal antibal antibal ant	216117	166 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	49	-	-	C01
	216181	2 PETER ST, WAGGA WAGGA NSW 2650	58	53	52	42	56	- CO1	- CO1	C01
BANK 1 Decke 1 <thdecke 1<="" th=""> <thdecke 1<="" th=""> <thd< td=""><td></td><td></td><td></td><td>53</td><td></td><td></td><td></td><td></td><td>- CO1</td><td></td></thd<></thdecke></thdecke>				53					- CO1	
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DAD DESCOND DESCOND <thdescond< th=""> <thdescond< th=""> <thdesco< td=""><td>216281</td><td>133 EDWARD ST, WAGGA WAGGA NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>59</td><td>CO1</td><td>CO1</td><td></td></thdesco<></thdescond<></thdescond<>	216281	133 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	59	CO1	CO1	
Setter Setter<	216292	202 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
9 100 11 1 1 2000 11 1 VACUUM DATA DATA DATA DATA DATA DATA DATA DAT	216315	8 PETER ST, WAGGA WAGGA NSW 2650	58	53	52	42	48	-	-	CO1
	216333	161 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	54	CO1	C01	CO1
1910 1910 1910 0.1 0.0 0 <		163 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	50	-	CO1 -	CO1
1300 1301 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td></th<>								-	-	
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1.212 1.211 In File 11 Mode and solve from 3 3 3 4 4 1 <th1< th=""> 1</th1<>	216433	9 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	56			CO1
2 Hat 1 Elemond 1	216437	12 PETER ST, WAGGA WAGGA NSW 2650	58	53	52	42	43	-	-	CO1
	216464	179 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	C01
1948 1958 <th< td=""><td>216480</td><td>189 EDWARD ST, WAGGA WAGGA 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<>	216480	189 EDWARD ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
1948 1947 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td></th<>								-	-	
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Base Hass F Woods Not Not Note Base Base <thbase< th=""> <thbase< th=""> <thbase< td="" th<=""><td></td><td>7 FOX ST, WAGGA WAGGA NSW 2650</td><td>58</td><td>53</td><td>52</td><td>42</td><td>47</td><td>-</td><td>-</td><td>CO1</td></thbase<></thbase<></thbase<>		7 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	47	-	-	CO1
Parts Process	216540	14 BEST ST, WAGGA WAGGA NSW 2650	58	53	52	42	50	-	-	CO1
1998. 1990.1 1990.4 </td <td>216558</td> <td>9 FOX ST, WAGGA WAGGA 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>	216558	9 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
1989 101700 ST WAGA MAGA MAY 2000 10 90 90 40 44 1 1 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 10 101700 ST WAGA MAGA MAY 2000 10 10 <	216564	10 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	C01
2000 1 Part F Nuclear Mark Content 200 6.8 9.3 6.2 4.2 4.4 1 1 1 1 1000 1 Part F Nuclear Mark Mark Mark Mark Mark Mark Mark Ma								-	-	
1980. 1970.51 WGG.MAGAANSY 200 94 93 92 42 43 1 1 001 1980. 1981.51 MGG.MAGAANSY 200 94 93 94 93 1 001 001 1986.1 BISST 57, MGG.MAGGANSY 200 94 93 92 42 44 1 1 001 1986.1 BISST 57, MGG.MAGGANSY 200 94 93 82 42 44 1 1 001 1997.1 BIST 57, MGG.MAGGANSY 200 94 93 82 42 43 1 001 001 1997.1 BIST 57, MGG.MAGGANSY 200 94 93 82 42 43 1 001 001 001 1997.1 BIST 57, MGG.MAGGANSY 200 94 94 92 42 43 1 001 001 001 1997.1 BIST 57, MGGAMAGGANSY 200 94 94 42 44 1 1 001 001 001 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- CO1</td><td>- CO1</td><td></td></t<>								- CO1	- CO1	
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17860 011 FDX T, WAGA WAGAN NEW 2800 98 63 92 42 44 1 1 COI 17860 18 FDX ST, WAGA WAGAN NEW 2800 58 63 92 42 44 1 - COI 17860 18 FDX ST, WAGAN WAGAN NEW 2800 58 63 62 42 44 1 - COI 17860 18 FDX ST, WAGAN WAGAN NEW 2800 58 63 52 42 44 1 - COI 17860 18 FDX ST, WAGAN WAGAN NEW 2800 58 63 52 42 44 1 - COI 17870 18 FDX ST, WAGAN WAGAN NEW 2800 58 63 92 42 44 1 - COI 17870 18 FDX ST, WAGAN WAGAN NEW 2800 58 63 92 42 43 1 - COI 18781 18 SES TT, WAGAN WAGAN NEW 2800 58 63 92 42 43 1 - COI 18781 18	216642	12 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	C01
19707 2 PETERS 1. WOOLA WAGAA NEW 2800 60 61 62 42 43 - - CO1 21807 21 FOX 51. WAGAA WAGAA NEW 2800 50 50 52 42 44 - - CO1 21807 11 FOX 51. WAGAA WAGAA NEW 2800 50 50 52 42 44 - - CO1 21807 11 FOX 51. WAGAA WAGAA NEW 2800 50 50 52 42 45 - - CO1 21807 12 REST 51. WAGAA WAGAA NEW 2800 50 50 52 42 45 - - CO1 21807 21 REST 51. WAGAA WAGAA NEW 2800 50 50 52 42 45 - - CO1 21807 21 REST 51. WAGAA WAGAA NEW 2800 50 50 52 42 43 - - CO1 21807 31 REST 51. WAGAA WAGAA NEW 2800 50 52 42 43 - - CO1 21808 31 REST 71. WAG	216649	4/11 FOX ST, WAGGA WAGGA NSW 2650	58	53	52	42	44	-	-	CO1
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14752 2) 2) 8 52 42 53 CO1 CO1 14752 2) 10572 20 10 10572								-	-	
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PHETRS 2PTER ST. WAGGA WAGGA NEW 2800 69 53 52 62 44 - COI 21818 21818 T1 WAGGA WAGGA NEW 2800 58 53 52 42 41 - - COI 21884 21815 T1 WAGGA WAGGA NEW 2800 58 53 52 42 43 - - COI 21884 21815 T1 WAGGA WAGGA NEW 2800 58 53 52 42 43 - - COI 21895 21815 T3 WAGGA WAGGA NEW 2800 58 53 52 42 44 44 - - COI 21895 21815 T3 WAGGA WAGGA NEW 2800 58 53 52 42 46 - - COI 217973 2185 T3 WAGGA WAGGA NEW 2800 58 53 52 42 46 - - COI 217173 2185 T3 <t< td=""> WAGGA WAGGA NEW 2800 58 53 52 42 46 -</t<>	216729	26 PETER ST, WAGGA WAGGA NSW 2650		53				-	-	CO1
17179 23 BEST ST, WAGA WAGA NANY 2800 68 53 52 42 61 - - CO1 12184 JB EDX ST, WAGA WAGA NANY 2800 68 53 52 42 41 - - CO1 12184 JB EDX ST, WAGA WAGA NANY 2800 68 53 52 42 44 - - CO1 12184 JB EDX ST, WAGA WAGA NANY 2800 68 53 52 42 49 - - CO1 12184 JP ETR T, WAGA WAGA NANY 2800 68 53 52 42 49 - - CO1 121733 JB EST ST, WAGA WAGA NANY 2800 68 53 52 42 40 - - CO1 121713 JB EST ST, WAGA WAGA NANY 2800 68 53 52 42 40 - - CO1 121714 JB EST ST, WAGA WAGA NANY 2800 68 53 52 42 40 - - CO1 121714 JB E	216775	28 PETER ST, WAGGA WAGGA NSW 2650	58	53	52	42	45	-	-	CO1
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Making Sustainability Happen





APPENDIX D

Biodiversity Assessment Report Memo (BARM)

Adrian Broger Environmental Approvals Advisor Martinus Rail Pty Ltd



18th October 2024

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 conduct vegetation removal and trimming to accommodate utility relocation 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

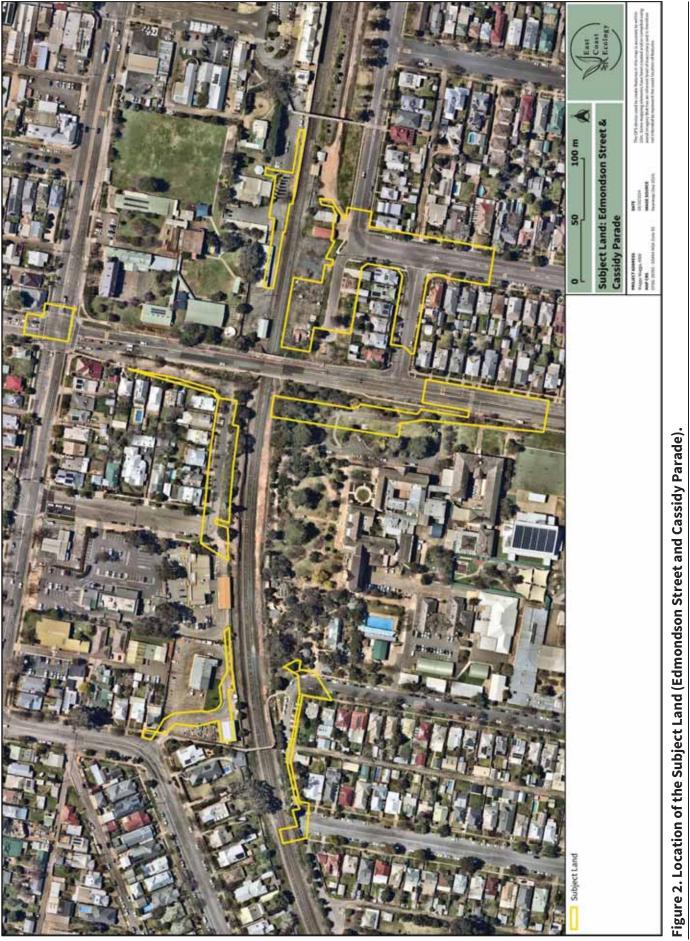
The Subject Land covers an area of approximately 2.37ha that adjoins the Main South Line in two distinct locations centred on Edmondson Street/ Cassidy Parade and Pearson Street (**Figure 1** - **Figure 3**).

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



East Coast Ecology – Biodiversity Assessment Report Memo Inland Rail (Albury to Illabo)

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East Coast Ecology – Biodiversity Assessment Report Memo Inland Rail (Albury to Illabo)

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2. METHODS

A thorough literature review of local information relevant to the Subject Land was undertaken. Searches using NSW Wildlife Atlas (BioNet) (NSW DCCEEW, 2024a), the Commonwealth Protected Matters Search Tool (PMST) (DCCEEW, 2024) and the Fisheries Spatial Data Portal (DPI, 2024) were conducted to identify all current threatened flora and fauna, as well as migratory fauna records, within a 5km radius of the Subject Land.

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

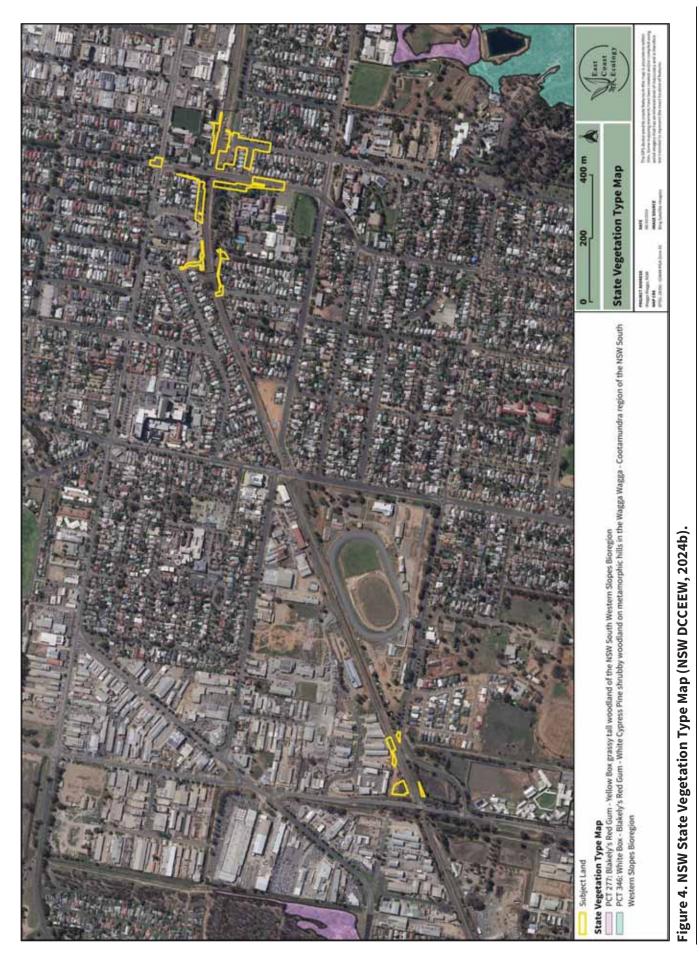
No Areas of Outstanding Biodiversity Value occur on the Subject Land or the surrounding area.

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'.



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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	0.40ha
Miscellaneous Ecosystems – Highly Disturbed areas with no or limited Native Vegetation	0.41ha
Total Area	0.81ha

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	0.40ha			
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 limited Native Vegetation			
Extent	0.41ha			
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).

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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	E	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

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.

Table 5. Threatened fauna with potential to occur within 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	Е	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:

- 0.40ha of Miscellaneous Ecosystems Ornamental Plantings, and
- 0.41ha 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:

- 0.40ha of Miscellaneous Ecosystems Ornamental Plantings, and
- 0.41ha 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**

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- 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
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- 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 E

Community Communications Strategy (CCS)



Community Communication Strategy Albury to Illabo (A2I)





DOCUMENT TITLE COMMUNITY COMMUNICATION STRATEGY - A2I DOCUMENT OWNER Casey Bootsma - Stakeholder Engagement Lead A2I PREPARED BY Olufemi Kolawole - Stakeholder Engagement Advisor A2P Jessica Jackson – Stakeholder Engagement Lead A2P **REVIEWED BY** Daniel Lumby - Principal Environment Advisor Alana Leslie - Senior Projects Communication Advisor Cameron Tomes - Communications Manager - Projects Wayne Window - Environment Manager NSW & Victoria Leanna Wrobel - Environment Advisor Dallas Nixon - Senior Environment Advisor Lisa Goodman - First Nations Engagement Advisor Joel Johnston - Social Performance Principal **OUALITY REVIEW** Alan Savage - Program Quality Advisor ENDORSED BY Naomi Tonscheck - Head of Stakeholder Relations

Document Control

Note: The Preparer, Owner, Quality Reviewer and Endorser acceptance of this document is captured electronically via the IR Controlled Document Centre.

Approved by

	NAME	TITLE	DATE	SIGNATURE
DOCUMENT APPROVER	Malcolm Clark	Area Director A2I/S2P	Dec 2, 2024	Malcolm Clark (Dec 2, 2024 16:33 GMT+11)

Revision History

REVISION	REVISION DATE	DESCRIPTION OF CHANGES
1	21/10/2024	Approved for Use
2	12/11/2024	Updates based on feedback from DPHI. Approved for Use.
3	28/11/2024	Updates based on additional feedback from DPHI. Approved for Use.
4	02/12/2024	Updates based on additional feedback from DPHI. Approved for Use.

Due for Revision: 2 years from Approved Date (or as required)

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Glossary

Specific terms and acronyms used throughout this strategy are listed and described in Table 1: Terminology below.

Table 1: Terminology

ACRONYM	DEFINITION			
A2I	Albury to Illabo			
ABS	Australian Bureau of Statistics			
ACC	Albury City Council			
ARTC	Australian Rail Track Corporation			
CALD	Culturally and Linguistically Diverse			
CCC	Community Consultative Committee			
CSEMP	Communication and Stakeholder Engagement Management Plan			
CSSI	Critical State Significant Infrastructure			
СМ	Consultation Manager –a cloud-based knowledge sharing platform used for effective stakeholder engagement. Consultation Manager allows project teams to capture interactions, tasks, and actions in a secure and readily accessible manner.			
СоА	Conditions of Approval set by the for Minister for Planning and Public Spaces			
The strategy	Community Communication Strategy			
Construction Contractor or "the contractor"	Any contractor engaged by IRPL to undertake works on the project			
DCCEEW	Department of Climate Change, Energy, the Environment and Water			
DITRDCA	The Department of Infrastructure, Transport, Regional Development, Communications, and the Arts (formerly the Department of Infrastructure, Transport, Regional Development and Communications)			
DPHI or "the Department"	NSW Department of Planning, Housing, and Infrastructure (formerly NSW Department of Planning and Environment)			
EIS	Environmental Impact Statement			
EP&A Act	Environmental Planning and Assessment Act 1979 (NSW)			
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Cth)			
EPL	Environmental Protection Licence			
ER	The Environment Representative for the project			
FAQs	Frequency asked questions			
IAP2	International Association for Public Participation			
JSC	Junee Shire Council			
IRPL	Inland Rail Proprietary Limited			
LALCs	Local Aboriginal Land Councils			
LEMC	Local Emergency Management Committees			
LGA	Local Government Area			
LOTE	Language other than English			





ACRONYM	DEFINITION	
ONVR	Operational Noise and Vibration Review	
OOHW	Out-of-hours work	
PIR	Preferred Infrastructure Report	
PLO	Public Liaison Officer	
RAPs	Registered Aboriginal Parties	
RtS	Response to Submissions	
Planning Secretary or "the Secretary"	Secretary of the Department of Planning, Housing and Infrastructure	
SEIFA	Socio-Economic Indexes for Areas	
SSI	State Significant Infrastructure	
TfNSW	Transport for NSW	
Work	Any physical activity for the purpose of the A2I project including Construction and Low Impact Work	
WWCC	Wagga Wagga City Council	



Table 2: Compliance matrix

CONDITION REFERENCE	REQUIREMENT	COMMUNICATION STRATEGY REFERENCE
B1	A Community Communication Strategy must be prepared to provide mechanisms to facilitate communication about construction and operation of the CSSI with: (a) the community (including adjoining affected landowners and businesses, LALC, RAPs, community representatives and others directly impacted by the CSSI); and (b) the relevant councils and relevant agencies.	This Strategy
B2	The Community Communication Strategy must:	
B2 (a)	 identify people, organisations, councils, and agencies to be consulted during the design and work phases of the CSSI 	Section 5.2 Table 6
B2 (b)	identify details of the community and its demographics	Section 5 and 5.1 Table 5
B2 (c)	identify timing of consultation	Section 5.2 Table 6
B2 (d)	 set out procedures and mechanisms for the regular distribution of accessible information including to CALD and vulnerable communities about or relevant to the CSSI 	Section 6 Table 7 Table 8
B2 (e)	 identify opportunities for education within the community about construction sites 	Section 7 Table 8
B2 (f)	 detail the measures for advising the community in advance of upcoming construction including upcoming track authorisations and possessions and out-of-hours work as required by Condition E73 	Section 7 and 7.1
B2 (g)	• provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the relevant community(ies) for the CSSI	Section 7 and Table 8
B2 (h)	 set out procedures and mechanisms: (i) through which the community can discuss or provide feedback to the Proponent (ii) through which the Proponent will respond to enquiries or feedback from the community 	Section 8 Table 11
B2 (i)	 to resolve any issues and mediate any disputes that may arise in relation to the environmental management and delivery of the CSSI, including timing for mediation to be undertaken once it has been escalated to the dispute resolution process 	Section 8 Table 12 Table 13
B2 (j)	address who will engage with the relevant stakeholders	Section 5.2 Table 6
B2 (k)	 detail the roles and responsibilities of the Public Liaison Officer(s) engaged under Condition B6 	Section 4 and 4.1 Table 4 Section 8.6 Table 11
B6	• A Public Liaison Officer must be appointed to assist the public with questions and complaints they may have at any time during Work. The Public Liaison Officer must be available at all times that Work is occurring.	Section 4 and 4.1 Table 4



1 Introduction

This Community Communication Strategy (the strategy) has been developed to support communication and engagement for works associated with the Inland Rail—Albury to Illabo (A2I) section (the project). This is an all-encompassing strategy that will cover all construction works including low impact works and 12 months following the completion of construction.

This strategy is informed by the definition of consultation outlined in B1 of the Conditions of Approval. The definition as per the condition is to provide information and actively engage with and obtain and consider feedback from stakeholders during development of post approval documents. How the feedback has been considered and whether any changes have been made in response to this feedback is then documented and communicated back to stakeholders. Consultation should not be limited to one-way notification about the project.

This strategy has been prepared in accordance with the NSW Minister for Planning and Public Spaces' Project Conditions of Approval (CoA) (Application Number: SSI-10055). As per Condition B2 of the CoA, this strategy seeks to:

- identify people, organisations, councils and agencies to be consulted during the design and work phases of the CSSI;
- identify details of the community and its demographics;
- identify timing of consultation;
- set out procedures and mechanisms for the regular distribution of accessible information including to CALD and vulnerable communities about or relevant to the CSSI;
- identify opportunities for education within the community about construction sites;
- detail the measures for advising the community in advance of upcoming construction including upcoming track authorisations and possessions and out-of-hours work as required by Condition E73;
- provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the relevant community(ies) for the CSSI;
- set out procedures and mechanisms:
 - through which the community can discuss or provide feedback to the Proponent;
 - through which the Proponent will respond to enquiries or feedback from the community;
- to resolve any issues and mediate any disputes that may arise in relation to the environmental management and delivery of the CSSI, including timing for mediation to be undertaken once it has been escalated to the dispute resolution process;
- address who will engage with the relevant stakeholders; and
- detail the roles and responsibilities of the Public Liaison Officer(s) engaged under Condition B6.

Table 2: Compliance matrix demonstrates compliance of this document against the CoA B2.

1.1 Approval and review of this strategy

This strategy was submitted to the Secretary of the Department of Planning, Housing and Infrastructure (Planning Secretary) and approved in mid-2024. Refer to the document revision table for further information on the review of this document.

This strategy will be reviewed every 12 months, or as required. Details of any review and/or amendments made to the strategy will be provided to the Environmental Representative (ER) for review and approval, prior to submitting to the Planning Secretary (if deemed required by the ER).



2 Inland Rail Program overview

Inland Rail is a project that will enhance national freight and supply chain capabilities, connecting existing freight routes through rail, roads, and ports, to support Australia's growth. Inland Rail will transform the way we move freight around the country, connect regional Australia to markets more efficiently, drive substantial cost savings for producers and consumers, and deliver significant economic opportunities.

Comprising 12 individual sections and spanning approximately 1,600 kilometres (km), Inland Rail is the largest freight rail infrastructure project in Australia and one of the most significant infrastructure projects in the world.

2.1 Inland Rail Program details

The objectives of the Inland Rail Program, as stated in the Service Offering, are to:

- provide a rail link between Melbourne and Brisbane to serve future rail freight demand and stimulate growth for interstate and regional/bulk rail freight
- provide an increase in productivity that will benefit consumers through lower freight transport costs
- provide a step-change improvement in rail service quality in the Melbourne–Brisbane corridor to deliver a freight rail service that is strongly competitive with road
- improve road safety, ease congestion, and reduce environmental impacts by moving freight from road to rail
- bypass bottlenecks on the congested metropolitan Sydney rail network, and free up train-path capacity for other services on the coastal route, including passenger services through the Sydney region and bulk freight through the NSW Southern Highlands
- act as an enabler for regional economic development along the Inland Rail corridor.

For more information on the Inland Rail Service Offering, please visit <u>inlandrail.artc.com.au/what-is-inland-rail/using-inland-rail/</u>.

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- Beveridge to Albury (Vic/NSW Border) Comprises 262km of existing track. This section will be enhanced to increase height and width clearances to allow for double-stacked trains.
- Albury (Vic/NSW Border) to Illabo Comprises 185km of existing track. Inland Rail will benefit from the track upgrades ARTC has already completed to this section. Enhancemen or modification works will be undertaken at locations to allow for safe clearance of double-stacked freight trains.
- Comprises 37km of new track and 2km of upgraded track. The route bypasses the winding section of track called the Bethungra Spiral.
- Comprises 170km of existing track. Inland Rail will benefit from the track upgrades ARTC has already completed to this section. Enhancement works underway will allow double-stacked trains and a new crossing loop to increase capacity on the line.
- Comprises 98km of existing track and 5km of new track. It is the first section of Inland Rail to be completed and accommodates double-

Comprises 306km of new rall corridor and track. This new section will reduce the overall journey time and complete one of the missing rail links between Melbourne, Adelaide, Perth and Erisbane.

- Comprises 184km of upgraded track and 2km of new track and is the second section of Inland Rail
- Comprises 5km of new track and 25km of existing track. This section will complete one of the key missing rail Inks between New South Wales and Queensland, using the non-operational rail corridor and new track to connect to the NSW/Qid Border to Gowrie section and the operating line running to Yelarbon.

Comprises of approximately 217km of new track. The section involves building approximately 149km of new track and upgrading approximately 88km of track from the NSW/016 border, new Yelarbon, to Gowrie Junction, north-west of Toowoomba.

Comprises 28km of new dual gauge track. This section will traverse the steep terrain of the Toowoomba Range and will include a 6.2km tunnel.

Comprises 47km of new dual gauge track, approximately half within existing rail corridor. This section will cross the Lockyer Valley floodplain and the Little Liverpool Range with a 850m tunnel.

- Comprises 53km of new dual gauge track within existing rail corridor. This section includes 39km of dual gauge track allowing single-stacked operations between a proposed terminal at Ebenezer and Kagaru. Using 1 tkm of tunnell this section will connect Inland Rall with the existing Sydney to Brisbane Coastal Line
 - 1800 732 761

Figure 1: Beveridge to Kagaru projects

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COMMUNITY COMMUNICATION STRATEGY - A2I



2.2 The Albury to Illabo project

The A2I section is one of the 12 individual projects in the Inland Rail Program and will form a vital freight rail link in southern New South Wales (NSW). The project will make enhancements and/or modifications to specific sites along the existing 185 km of rail corridor from the Victorian–NSW border at Albury to Illabo in regional NSW. The enhancement and modification works are required to create height and width (horizontal and vertical) clearances to accommodate double-stacked freight trains, and include footbridges and road bridges, overhead structures, signal structures and level crossings. The A2I project area covers the five Local government areas (LGAs) of Albury, Greater Hume, Lockhart, Wagga Wagga and Junee. It also includes interface and connections with neighbouring Inland Rail sections: Illabo to Stockinbingal (I2S) and Beveridge to Albury (B2A).

Key components of the A2I project include:

- adjustments to approximately 44 km of track across 14 enhancement sites to accommodate the vertical and horizontal clearances according to Inland Rail specifications, comprising:
 - realignment of track within the rail corridor at 14 enhancement sites
 - lowering of track up to 1.6 metres (m) at three enhancement sites
 - changes to bridges and culverts at enhancement sites to allow track realignment as follows:
 - replacement of two road bridges and adjustment to adjoining intersections
 - replacement of three pedestrian bridges
 - demolition of two redundant pedestrian bridges
 - modifications to four rail bridges
 - ancillary works, including adjustments to nine level crossings, modifications to drainage and road infrastructure, signalling infrastructure, fencing, signage, and services and utilities.

Construction of the project would require:

- construction compounds (including laydown areas) and other areas needed to facilitate construction works
- temporary changes to the road network, including roads closures to undertake works on road bridges and level crossings
- other ancillary works.





Figure 2: Albury to Illabo corridor



2.3 Project timeline

Table 3: A2I project timeline

YEAR	MILESTONE	
2015–2019	Pre EIS, preliminary engagement, and reference design was completed.	
2020	In May 2020, the project was declared State Significant Infrastructure (SSI) and, as a result, commenced the Environmental Impact Statement (EIS) approvals pathway. In June 2020, the project was classified as not a "Controlled Action" under <i>the Environment Protection and Biodiversity Conservation Act</i> 1999 (Cth) (EPBC Act).	
2021	In March 2021, the project was upgraded to Critical State Significant Infrastructure (CSSI)	
2022	From Mid-2021 to the end of 2022, reference design was completed. The A2I EIS was on public exhibition between 17 August 2022 and 28 September 2022.	
2023	In June 2023, Inland Rail appointed the main Construction Contractor to design and construct enhancement works on the Albury to Illabo (A2I) section of Inland Rail. On 2 November 2023 the Preferred Infrastructure Report (PIR) was submitted to the NSW Department of Planning, Housing, and Infrastructure (DPHI). The PIR was placed on public exhibition from 15 November 2023 to 6 December 2023.	
2024	In February 2024, a PIR Response to Submission (RtS) Report was submitted to DPHI and published for public to view. In October 2024, the CSSI approval was granted by the NSW Minister for Planning and Public Spaces.	



3 Engagement approach

3.1 Engagement approach and principles

In delivering the A2I project, Inland Rail seeks to:

- Build trust through quality engagement and open and ongoing interactions with stakeholders, including
 affected landowners, community groups, First Nations/Aboriginal and Torres Strait Islander peoples, and
 government authorities; and by providing clear and up-to-date information and accessible channels to
 provide feedback
- Build credibility by forging consistent connections with local councils, business, and industry groups, and
 affected landowners, with a focus on responsive engagement practices. Credibility is also built by
 fostering and delivering on community benefits and opportunities, including sponsorship opportunities and
 capability and skills workshops
- Build visibility by building a predominantly regionally based engagement team that is responsive to the needs of the community where they work and live; being available to the community and by playing an active role in supporting local businesses, and regional community events as well as broader industry conferences.

The engagement approach is founded on the following principles:

- Timing: ensure regular engagement and timely communication through various channels over the lifecycle of the project.
- Inclusivity: demonstrate an understanding for the regional context and ensure all stakeholders are provided with open and accessible engagement opportunities.
- Transparency: encourage a diverse range of views and opinions and ensure that this feedback is accurately captured and considered throughout the lifecycle of the project.
- Equitability: ensure relevant groups are included in the conversation with recognition of those voices that may not often be readily heard. This may include Traditional Owners, people with disabilities, youth, and the elderly.
- Accessibility: encourage engagement and participation of different socio-economic groups in the community.
- Materiality: focus on identifying and addressing the issues that matter most to stakeholders.
- Responsiveness: demonstrate how engagement has influenced project considerations or decisions.

3.2 Alignment with IAP2 public participation spectrum

Inland Rail is committed to active engagement in accordance with the International Association for Public Participation (IAP2) spectrum. Inland Rail is committed to engaging with local communities along the proposed alignment openly and in a collaborative manner and will aim to collaborate on project outcomes wherever feasible.

The IAP2 spectrum and core values helps organisations, decision makers and practitioners make better decisions that reflect the interests and concerns of potentially affected people and entities. The IAP2 notes:

⁶ Public participation means to involve those who are affected by a decision in the decision-making process. It promotes sustainable decisions by providing participants with the information they need to be involved in a meaningful way, and it communicates to participants how their input affects the decision³.

The IAP2 spectrum for public participation is an informative tool to help clarify the role of the public (or community) in planning and decision making. The IAP2 spectrum allows for the setting of appropriate goals, expectations and activities. It also assists in better understanding community and project outcomes.



For the purpose of this strategy, consultation is defined as any element of public participation, or combination of elements, as outlined in Figure 3: IAP2 Spectrum of Public Participation below.

Figure 3: IAP2 Spectrum of public participation

	INFORM	CONSULT	INVOLVE	COLLABORATE	EMPOWER
FUELO PARTICIPATION DUAL	To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.	To obtain public feedback on analysis, alternatives and/or decisions.	To work directly with the public throughout the process to ensure that public concerns and aspirations are consistently understood and considered.	To partner with the public in each aspect of the decision including the development of alternatives and the identification of the preferred solution.	To place final decision making in the hands o the public.
	We will keep you informed.	We will keep you informed, listen to and acknowledge concerns and aspirations, and provide feedback on how public input influenced the decision.	We will work with you to ensure that your concerns and aspirations are directly reflected in the alternatives developed and provide feedback on how public input influenced the decision.	We will look to you for advice and innovation in formulating solutions and incorporate your advice and recommendations into the decisions to the maximum extent possible.	We will implement what you decide.



4 Structure and accountabilities

The Inland Rail A2I Stakeholder Engagement team will have responsibility for stakeholder and community relations in partnership with the Construction Contractor's communication and stakeholder engagement team. The Public Liaison Officer will also assist the public with questions and complaints that they may have at any time during work. The Inland Rail Project Director has overarching accountability for the implementation of engagement related matters.

The delivery of engagement and communication activities will also involve contributions from broader Inland Rail teams, including Media, Social Media, Corporate Affairs, Property, Social Performance, Sustainability, Engineering, Project Delivery and Environment.

The Construction Contractor, in collaboration with Inland Rail, will develop a Communication and Stakeholder Engagement Management Plan (CSEMP), which will be updated as required.

Inland Rail will remain responsible for the implementation of the communications strategy for the duration of the work and for 12 months following the completion of construction.

The following positions hold key responsibilities for the engagement activities, within Inland Rail, the construction contractor and externally.

POSITION	RESPONSIBILITIES
Inland Rail	
Head of Stakeholder Relations	Oversees all Inland Rail engagement teams from a program level.
Engagement Manager	Accountable for managing the A2I stakeholder engagement team and activities. The Manager will act as the interface with the Construction Contractor on community engagement matters.
Stakeholder Engagement Lead	Responsible for the delivery of engagement activities associated with the A2I project and leads engagement with key stakeholders.
Stakeholder Engagement Advisor	Provides support to the Inland Rail A2I Stakeholder Engagement Lead and undertakes engagement activities, planning, review and reporting requirements associated with the project.
First Nations Engagement Advisor	Responsible for leading and will retain primary relationships with Local Aboriginal Land Councils. Will lead engagement with key First Nations stakeholders, organisations and the wider First Nations community.
Senior Communication Advisor—NSW South	Oversees all communication activities on the A2I project, including the provision of input and advice to the Inland Rail Stakeholder Engagement team relating to engagement and project material; interface with the Construction Contractor to support project delivery communication; and facilitate communication approvals.
The Construction Contr These responsibilities will	actor align with the strategy articulated in the CSEMP.
Communications and Stakeholder Engagement Manager	Co-ordinate and manage all communications and interactions with the Inland Rail communications and stakeholder engagement team, project stakeholders and the communities located in and adjacent to the project area. The Communications and Stakeholder Engagement Manager is responsible for making sure that the stakeholder engagement and communications activities meet the needs of all project stakeholders and adhere to the standards set by Inland Rail. Act as a key conduit for the flow of information to/from the Construction Contractor's project team.

Table 4: Position and responsibilities for the A2I project

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POSITION	RESPONSIBILITIES
Community and Stakeholder Leads/Advisors	The construction contractor will engage Stakeholder Engagement Leads/Advisors to be based in the regional offices in Wagga Wagga and Albury. They will be the 'on the ground' personnel. Responsible for liaising with stakeholders, landowners and the community regarding construction impacts and requirements as well as preparing community notifications, construction updates, plans and attending community events.
Indigenous Participation Manager	Responsible for implementation of social performance actions which require engagement with First Nations stakeholders. Responsible for implementation of Indigenous workforce development and industry participation actions.
Public Liaison Officer	Responsible for assisting the public with questions and complaints they may have at any time during work. This role will work collaboratively with the Community Complaints Mediator, acoustics advisor, ER and the wider engagement teams to address community concerns and will be available at all times while work is occurring.
External - Independent	
Community Complaints Mediator	As required, Independent personnel who will review unresolved disputes within the Complaints Management System to mediate and make recommendations to resolve issues and concerns when a member of the public is not satisfied by Inland Rail's handling of the complaint.
Environmental Representative	Receive and respond to communication from the Planning Secretary Report monthly to the Planning Secretary. Review documents identified by the Conditions of Approval and monitor their implementation. Other matters as requested by the Planning Secretary and as per the Conditions of Approval.

4.1 Public Liaison Officers

In accordance with CoA B6 the key roles and responsibilities of a Public Liaison Officer (PLO) include:

- Proactively communicate construction impacts with the community and engage with affected communities as required.
- Liaise with the Utility Coordination Manager and the public regarding upcoming utility works.
- Implementing the Project's complaints management system to effectively address complaints.
- Being available to receive and respond to calls while works are in progress from the Project's 1800 telephone number.
- Respond to telephone calls and written complaints and enquiries including undertaking investigations of complaints/enquiries.
- Assist community information sessions, public events and one on one stakeholder meetings as required.
- Encouraging community participation.
- Providing advice to the wider project team on matters relating to timely provision of information, engagement requirements, proactively identifying issues and promptly responding to concerns raised.
- Maintaining accurate records on community relation issues and recording all interactions with stakeholders and the community in the stakeholder management database (Consultation Manager).
- Identifying and initiating opportunities for community participation in a range of areas that have the
 potential to strengthen relationships with key project stakeholders and enhance the project's reputation.
- Implementing the project's Communications Strategy and involvement in other communication strategies and plans as required.



5 Stakeholders and community

Stakeholders of the A2I project are individuals or groups affected by, or with an interest in, Inland Rail between Albury and Illabo (see Table 6: A2I Key Stakeholders).

Inland Rail will consult with relevant stakeholders during the design and construction of the project and update/review our stakeholder list during these phases.

Inland Rail will minimise, where possible, impacts on stakeholders and the community, and ensure stakeholders and the community fully understand the activities to be undertaken, their objectives, benefits, potential impacts and expected outcomes, with consideration to other related infrastructure.

We will encourage community involvement and participation by being accessible and available to the community by maintaining a strong and visible presence within their townships and communities, and by tailoring our communication and the tools we use to the requirements of individual stakeholders and their circumstance.

5.1 Community demographics

The following Table 5: Community demographics, provides an overview of some of the key community demographics of the A2I communities. These community demographics will be considered when determining communication methods and developing communication material to ensure the methods and materials are suitable for the audiences they are being targeted to.

LOCAL GOVERNMENT AREA	POPULATION	ABORIGINAL AND/OR TORRES STRAIT ISLANDER	MEDIAN AGE	COMPLETED YEAR 12 OR EQUIVALENT	BORN IN AUSTRALIA	SEIFA
Albury	56,093	3.8%	39 years	33.1%	81.7%	968
Greater Hume	11,157	3.4%	44 years	32%	84.6%	999
Lockhart	3,119	3.4%	46 years	30.9%	85%	976
Wagga Wagga	67,609	6.6%	35 years	34.4%	83%	989
Junee	6,415	9.2%	41 years	28.8%	85%	934

Table 5: Community demographics

Source: Australian Bureau of Statistics 2021

Socio-Economic Indexes for Areas (SEIFA) are developed by the Australian Bureau of Statistics (ABS), based on data from the five-yearly Census, to rank areas according to relative socio-economic advantages and disadvantages. SEIFA scores are compared to the standardised baseline (state) score of 1,000, with a low score indicating relatively greater disadvantages.

As an example, the SEIFA score for Greater Hume in 2016 was 999. Across Australia's local government areas SEIFA scores ranged from 1,110 (least disadvantaged) to 492 (most disadvantaged).

5.2 Key stakeholders to be consulted during design and work phases

A2I Key Stakeholders below (Table 6: A2I Key Stakeholders) identifies key stakeholders that will be consulted during the project. Other identified stakeholders will be informed, and provided with objective information that will assist them in understanding the project.

The level of engagement with these key stakeholders aligns with the IAP2 public participation spectrum highlighted in Section 3.2.



Table 6: A2I Key Stakeholders

SECTOR	STAKEHOLDER	LEVEL OF ENGAGEMENT (IAP2)	ENGAGEMENT TIMING	RESPONSIBILITY
Commonwealth Government	Department of Climate Change, Energy, the Environment and Water (DCCEEW)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team
	Elected Representatives	Inform	During design, construction, and post construction	Inland Rail Project Delivery Team
NSW Government	Department of Planning, Housing, and Infrastructure (DPHI)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team
	Environmental Protection Authority NSW (NSW EPA)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team
	Transport for NSW	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	Crown lands	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	Biodiversity, Conservation and Science Division of the Environment and Heritage Group of the NSW Department of Climate Change, Energy, the Environment and Water (BCS)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	Heritage NSW	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	DPI Fisheries	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW - Water)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	Elected Representatives	Inform	During design, construction, and post construction	Inland Rail Project Delivery Team
Local government	Wagga Wagga City Council (WWCC)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team



SECTOR	STAKEHOLDER	LEVEL OF ENGAGEMENT (IAP2)	ENGAGEMENT TIMING	RESPONSIBILITY
				Construction Contractor
	Albury City Council (ACC)	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction
	Junee Shire Council (JSC)	Consult/Involve	During design, construction, and post construction	Contractor Inland Rail Project Delivery Team Construction Contractor
	Greater Hume Shire Council	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	Lockhart Shire Council	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
	Mayors and Councillors (of above Councils)	Consult	During design, construction, and post construction	Inland Rail Project Delivery Team
First Nations/Aboriginal and Torres Strait Islander peoples	Registered Aboriginal Parties (RAPs) Local Aboriginal Land Councils (LALCs)	Consult/Involve	During design and construction	Inland Rail Project Delivery Team Construction Contractor
Affected landowners	Directly impacted stakeholders including landowners, business operators and residents along the alignment	Consult/Involve	During design, construction, and post construction	Inland Rail Project Delivery Team Construction Contractor
Broader community	Community members residing in the Albury, Wagga Wagga, Junee, Lockhart and Greater Hume local government areas	Involve and Consult (as required)	During design and construction	Construction Contractor
Emergency services	NSW Police	Consult	During design and construction	Construction Contractor
	NSW Ambulance, stations located Wagga Wagga, Junee, Albury and Henty	Consult	During design and construction	Construction Contractor
	Fire and Rescue NSW	Consult	During design and construction	Construction Contractor
	Rural Fire Service	Consult	During design and construction	Construction Contractor
	State Emergency Services	Consult	During design and construction	Construction Contractor



SECTOR	STAKEHOLDER	LEVEL OF ENGAGEMENT (IAP2)	ENGAGEMENT TIMING	RESPONSIBILITY
	Local emergency management committees (LEMC)	Consult	During design and construction	Construction Contractor
Utilities	Essential Energy	Consult	During design, construction, and post construction	Construction Contractor
	NBN	Consult	During design, construction, and post construction	Construction Contractor
	Telstra	Consult	During design, construction, and post construction	Construction Contractor
	Australian Pipeline Authority (APA)	Consult	During design, construction, and post construction	Construction Contractor
	Goldenfields Water County Council	Consult	During design, construction, and post construction	Construction Contractor
	Riverina Water	Consult	During design, construction, and post construction	Construction Contractor
Educational Institutions	Kildare Catholic College	Consult	During design and construction	Construction Contractor
	South Wagga Public School	Consult	During design and construction	Construction Contractor
	Wagga Wagga High School	Consult	During design and construction	Construction Contractor
Hospitals	Wagga Wagga Base Hospital	Consult	During design and construction	Construction Contractor
	Calvary Riverina Hospital	Consult	During design and construction	Construction Contractor



6 Accessibility mechanisms and procedures

The table below identifies practices for achieving accessibility in the regular distribution of information, which will be delivered through the mechanisms listed in Table 7. The vulnerable community include people on low incomes, people living with disabilities, chronic medical conditions or in poor health requiring access to services, culturally and linguistically diverse (CALD) communities, people who are homeless or in insecure housing, people who are unable to represent themselves, or other vulnerable people such as elderly people, children or single-parent.

Table 7 Accessibility	mechanisms and procedures
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MECHANISM	PROCEDURE
English as a Second Language (ESL) disclaimer /footer	Inland Rail will include the following disclaimer on all works notifications provided to stakeholders and communities: <i>Please call our free translation and interpreter service on 131 450 (24 hours a day) if English is your second language and you need help reading this document.</i>
Website	Inland Rail is committed to providing a website that is easily accessible to the widest possible audience, regardless of ability or technology. The Inland Rail website will meet the Australian Government's web accessibility requirements, including the World Wide Web Consortium's Web Content Accessibility Guidelines version 2.1 (WCAG 2.1) (available at <u>w3.org/TR/WCAG21/</u>) at level A and AA.
Engagement	First Nations Community and stakeholders Engagement is undertaken with an understanding of historical, cultural and social complexity of specific local or regional First Nations contexts via First Nations Engagement Advisors in alignment with best practice Free, Prior and Informed consent framework.
	Vulnerable community For these stakeholders' engagement will be via community noticeboards and other network groups. The preferred method of continuing engagement will be determined on a case-by-case basis.

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Communication tools and engagement methods

communication tools and engagement methods outlined in Table 8: Communication tools and engagement methods. These tools present an opportunity to Inland Rail and the Construction Contractor will keep stakeholders and the community up to date about the progress of the A2I project through a range of educate the community about construction sites and will be used to inform the community about upcoming construction, impacts, milestones, and project achievements.

Table 8: Communication tools and engagement methods

TOOL/ACTIVITY	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	SPECIFICATIONS
Planning our engagement	gement				
Communication Action Plan (CAPs)	These plans will be developed for specific packages or work, activities, and issues management	Internal	Preconstruction & construction Developed and endorsed for use prior to the start of contractor works.	As required.	Detailed communication action plans will be developed to guide the communications and stakeholder engagement to be undertaken for specific packages of work, activities, and issues management. These plans will be developed to be consistent with this communication strategy and will include, but not be limited to stakeholder to be engaged, engagement tools and activities to be utilised, roles and responsibilities.
Crisis communication plan	Crisis communication plan will be developed to clearly outline the process and procedures for communication which will be followed in the event of an emergency or crisis.	Internal	Preconstruction Developed and endorsed for used prior to the start of contractor works.	One month before start of contractor works. Updated as required.	The crisis communication plan will detail the method of managing communication response to an emergency or crisis. The strategy of the plan is to communicate the response promptly to mitigate or reduce the adverse impacts to stakeholder.
Keeping the comm	Keeping the community up to date – notifications and communication	and communicati	on		
Community notifications	Community notification will be used regularly to distribute information to the surrounding residents of the upcoming works near them.	Impacted community as identified in the construction noise and vibration impact statement for the proposed works.	Construction Notification to impacted stakeholders will be sent out a minimum of 7 days before works commence or change comes into effect.	As required.	Notification will be used advise the community of upcoming construction, traffic changes, track possessions and out-of-hours work. Works notifications will be sent via mail and will appear on the Inland Rail website and, depending on impact, will be advertised in the local newspapers.
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RAIL

Doorknocks will be carried out as required and Factsheets will be used to provide an overview approvals/construction process and to support description of activities specifically undertaken engagement on specific issues such as noise mitigation, managing dust during construction will focus on directly impacted residents and Information sheets provide a more technical These FAQs will be available on the Inland by the Construction Contractor (e.g. track Doorknocks will be carried out in pairs. aying and environmental monitoring). of the project. its environment **SPECIFICATIONS** Rail website. businesses. etc. FREQUENCY As required. As required. of emergency situation For the duration of the Unless otherwise stipulated by the EPL. stipulated by the EPL. out a minimum 5 to 7 Doorknocks to notify Preconstruction and Doorknocks to notify and discuss general works will be carried carried as soon as or works are to be Unless otherwise days prior to the activity starting. Construction construction practical. TIMING project. Community and stakeholders, any interested residents and impacted by AUDIENCE construction businesses. Community works e.g. diversions. member affected Directly parties. traffic questions frequently asked by parts of the project or specific contact details such as phone Factsheets will be developed or email are available, or the as their preferred method of Updates on site construction (FAQs) will be developed to resident has nominated this activities, schedule and key Frequently asked questions capture and respond to the Doorknocks will be used to businesses where no other milestones will be provided issues or concerns raised. as needed to explain key during this engagement. interactions with directly impacted residents and facilitate face-to-face the community and DESCRIPTION stakeholders. contact. questions (FAQs) factsheets/inform Frequently asked TOOL/ACTIVITY Door knocking ation sheets and

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Both fact sheets and information sheets will be

displayed on the Inland Rail website and will

COMMUNITY COMMUN	COMMUNITY COMMUNICATION STRATEGY – A2I				RAIL
TOOL/ACTIVITY	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	SPECIFICATIONS
					include the projects 24/7 1800 number, email address, postal address and website address.
Advertising	Press, social media and radio advertisements will be used to: raise awareness and understanding of the project provide information and promote channels through which stakeholders can communicate their views, issues and concerns raise awareness of project milestones, upcoming construction activity and timeframes support the Construction Contractor's recruitment and supplier engagement efforts	Local community, community and stakeholder groups, residents and any interested parties	Preconstruction and construction Between 5 and 14 days before works. Project milestones. As required for recruitment and supplier engagement.	As required.	Written advertisements will be placed in local papers relevant to the proposed works. Social media posts will be distributed via Inland Rail's existing channels Radio advertisements to be agreed based on impacts and specific activities.
Media releases	To inform and raise awareness about the project among the project's Australian Government shareholders, government agency stakeholders, local communities and businesses, and broader industry, potentially leading to coverage in news and media channels.	Local community and businesses, government agencies, broader industries, stakeholder and community groups and any interested parties.	Preconstruction and construction Project milestones, quarterly project updates. Issues of importance to Shareholding Ministers and the Department.	As required.	Inland Rail is a highly visible and important project to the Government and to ARTC and comes with a high level of reputational and political risk. By working together, Inland Rail and the Construction Contractor will reduce the reputational risks to the Australian Government and ARTC associated with the project that may attract media attention.
Out-of-hours work (OOHW) notifications and notices	Community notifications will adhere to the requirements of the project specific Construction Noise and	Local community, directly impacted	Construction Between 7 to 14 days prior to	As required.	Consultation will be consistent with the CoA and any OOHW will identify a range of reasonable and feasible mitigation measures and respite options. These options will be

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COMMUNITY COMMUNICATION STRATEGY - A2I

TOOL/ACTIVITY	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	SPECIFICATIONS
	Vibration Impact Statements (CNVIS), Environmental Protection Licence (EPL) and Out of Hours Work (OOHW) protocol. These protocols will be developed in compliance with the CoA and appropriate levels of consultation carried out for all OOHW activities.	residents and businesses, emergency services.	commencement of the OOHW works. Unless otherwise stipulated by the EPL.		consulted with affected community members at each location.
Photographs, videography, timelapse and visualisations	Photos, video, drone and timelapse footage will be taken during construction to visually demonstrate progress. Visualisations will be used to demonstrate construction progress and design elements of key infrastructure assets throughout the delivery cycle to raise community awareness of what has changed.	Community and stakeholder groups, any interest parties.	Construction As required throughout the duration of the project.	As required.	Timelapse opportunities will be explored at all major construction sites, subject to site access and length of construction activity. Updated visualisations will be uploaded to the project website prior to and during construction.
Project signage and hoarding	Signage to include contact details and information about the project, gives the public easy access to the project team. Part of site signage and site protection. Hoarding and fencing wrap will identify the project, provide contact information and offer the opportunity to promote key project messages. Hoarding and site signage will be used in publicly visible areas such as roads and towns.	Community and stakeholder groups, any interested parties.	Preconstruction and construction Before the commencement of construction and for the duration of the project.	Reviewed and updated as required.	Signposts notifying of changed conditions will be installed before changes are implemented. Wayfinding and directional signage will be installed to support any temporary detours.

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STRATEGY – A2I

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The A2I Online Interactive Map will continue to The website is the single source of truth for all required under the CoA and approvals will be submit enquiries, feedback and comment via project communication material. Records of project communication material. Records of received emails and their responses will be throughout construction. All documentation Enquiries, Information & Feedback - Inland Stakeholder and community members can the contact us feature (Contact Inland Rail: The hotline number will be included on all calls received and their responses will be The email address will be included on all updated information such as detours and be updated throughout construction with nformation about the A2I project will be uploaded to the existing project website. project information and will be updated captured in Consultation Manager. captured in Consultation Manager. construction timeframes. uploaded to the site. **SPECIFICATIONS** Rail) Content reviewed Content reviewed FREQUENCY Ongoing. Ongoing. quarterly. quarterly. Ongoing. Ongoing. construction and post construction and post construction and post Preconstruction and Preconstruction, Preconstruction, Preconstruction, construction construction construction construction TIMING Community and Community and Community and Community and AUDIENCE groups, any groups, any stakeholder groups, any stakeholder stakeholder groups, any stakeholder interested interested interested interested parties. parties. parties. parties. Getting in touch with the team – communications tools (InlandRailNSW@inlandrail.co m.au) has and will continue to questions or make complaints A 24-hour community hotline stakeholders with an avenue complaints about the project. Map (Albury to Illabo | Social community to ask questions, contact the stakeholder and Pinpoint (inlandrail.com.au)) number (1800732 761) has means for the community to to engage with project in an be maintained to provide a The A2I Online Interactive provide feedback or make (inlandrail.com.au/A2I) will interactive map. The map been established for the reference point to obtain provides community and online forum through an provide access to digital shows the project and project teams and ask material and provide The project website further information. An email address about the project. DESCRIPTION **Online Interactive** TOOL/ACTIVITY Project website Email address Community hotline Map

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includes updated designs and

Where a condition(s) of this approval requires document(s) will be published on the website information on the current implementation a copy of the EIS CoA, in its original form, a copy of all required documents and any Licence, EPBC approval (if relevant), any before the work, construction or operational granted to a modification of the terms of licenses and approvals under the Water Management Act 2000 (NSW), and any commences, a current copy of the relevant all community newsletters, notifications, a document(s) to be prepared before work, activity-these will be uploaded before copies of documents that are prepared a copy of the Environment Protection approval, and copies of any approval before construction or on operational associated documentation related to Information about the A2I project will be uploaded to the existing project website. status of the CSSI and updates on a current consolidated copy of the approvals to close level crossings modifications made to the CCSI construction or operational activity proposed upcoming works The website will include: activity is undertaken. work commences **SPECIFICATIONS** the CoA Content reviewed FREQUENCY Ongoing. quarterly. construction and post Preconstruction, construction TIMING Community and AUDIENCE groups, any stakeholder interested parties. How the community can learn more – digital tools tools are designed to increase materials and to facilitate twovisualisations. The public can to provide feedback or ask a drop a comment on the map website has been developed Interactive Map will continue Updated on site construction activities, schedules and key understanding of the project community and stakeholder way communication. These milestones will be provided. to provide access to digital community interaction and As described above, the to be utilised throughout construction to update The projects Online DESCRIPTION question. groups. **Online Interactive** TOOL/ACTIVITY Website and Map

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and FAQs

COMMUNITY COMMUN	COMMUNITY COMMUNICATION STRATEGY – A2I				RAIL
TOOL/ACTIVITY	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	SPECIFICATIONS
					notification of upcoming events and forums copies of visualisations, videos and construction photos showing progress.
A2I e-newsletter	To provide impacted stakeholders registered for emails regular updates on site construction activities, schedules, key milestones and rail safety messages.	Local community and businesses, stakeholder and community groups and any interest parties.	Preconstruction and construction	Quarterly (with the option to move to monthly as construction activity increases).	Distributed prior to and during construction, the e-newsletter will be promoted through socials, emails, distributed at community meetings/events and displayed on the Inland Rail website. Community contact information will be provided in this communication.
Social media platforms	Various social media platforms such as Facebook, LinkedIn and Instagram assist in raising awareness and understanding of the project, support the Construction Contractor's recruitment and supplier engagement efforts and share updates and achievements of both the project and the broader Inland Rail Program.	Community and stakeholder groups, any interested parties.	Preconstruction and construction As required during project milestones and key consultation periods including public information sessions.	As required,	Engagement through social media can be targeted and designed to engage with communities according to interests and concerns. As the project moves through construction, social media will assist in providing information to targeted communities, such as road detour notifications.
Opportunities for c	Opportunities for community to get involved				
Community information sessions/forums	These sessions will provide an opportunity for community members to find out more about the work, discuss environmental issues, and ask questions about the project and construction.	Community and stakeholder groups, any interested parties.	Preconstruction and construction As required throughout the duration of the project.	As required throughout the duration of the project.	Sessions will be held in public venues such as shopping centres, libraries or local events.
Community Consultative Committee (CCC)	Continuing to engage with the CCC will assist Inland Rail to further facilitate open and inclusive engagement on all aspects of the A2I project, beyond the EIS/PIR.	CCC members	Preconstruction and construction	To be held quarterly through the duration of the project.	The CCC will be used as a communication method throughout the delivery of the A2I project, and will ensure the community and stakeholder groups are:
INLAND RAIL PTY LTD	INLAND RAIL PTY LTD ABN 73 094 819 520 5-0000-210-PCS-00-ST-0001 4	CS-00-ST-0001 4			

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SPECIFICATIONS	 kept informed of the status of the project, any new initiatives, and the performance of Inland Rail consulted on the development of, management plans and proposed changes to A2I project able to provide feedback to Inland Rail on key issues that may arise during the implementation of the project. The A2I CCC will be operated in accordance with the Department's CCC Guideline. 	Meetings may be formal or informal depending on the purpose of the meeting. Meetings minutes will be recorded in Consultation Manager.	Inland Rail and the Construction Contractor will provide update presentations to community groups. This may be at the request of community groups or at the initiative of Inland Rail and/or the Construction Contractor. Records of engagement will be captured in Consultation Manager.
FREQUENCY		The frequency will be determined by the works being completed and the preferences to meet from the stakeholders/communi ty.	As required.
TIMING		Preconstruction and construction Meeting with key stakeholders, nearby residents and businesses will proactively be offered for the duration of the project.	Preconstruction and construction Ahead of key milestones and as required. Meeting with key stakeholders and agencies will proactively be offered for the duration of the project.
AUDIENCE		Community and stakeholder groups, residents and businesses, any interested parties.	Councils and agencies, local organisations, key stakeholder, community groups and any interested parties.
IVITY DESCRIPTION		Direct interaction with community members and stakeholders will be held to obtain feedback and raise or measure awareness of the project. Meetings may also be scheduled to address specific questions and issues in person.	To provide technical or specific issue-related information for specific stakeholder groups and agencies. These forums may be targeted based on location and impacts on those communities.
TOOL/ACTIVITY		Meetings (one on one and small group forums)	Stakeholder presentations/brie fings and forums

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	de Farmers /s.	al businesse encing.	e used to es towards nc on measures.	ide a variety ity and may ige and digit		he communit munication vices. vide anding of complexity o
6	events inclu annual show	ay to build loc works comm	s may also be unity attitude oise mitigatic	ttion will inclu the commur dia, site signa dia, tr		members of t opted: Il works com erpreting ser AG accessibl Ivisors to pro th an undersi al and social
SPECIFICATIONS	Examples of local events include Farmers Markets and local annual shows.	Currently underway to build local businesses capability prior to works commencing.	Feedback surveys may also be used to understand community attitudes towards noise barriers or other noise mitigation measures.	Community education will include a variety of mediums to reach the community and may include social media, site signage and digital tools.		 To provide for all members of the community, Inland Rail has adopted: Disclaimer on all works communication materials for interpreting services. Website is WCAG accessible. First Nations Advisors to provide engagement with an understanding of historical, cultural and social complexity of
SPE	Exar Mark	Curr capa	Feed unde barri	Comr mediu includ tools.		To To To To To To To To To To
FREQUENCY	As required.	As required.	Frequency to be assessed after first survey results.	As required.		As required.
Ę	As	As				
	ed during on.	uction	ion be d six mon rruction	ion ed ut the of the proj	es	uction an on
TIMING	As required during construction.	Preconstruction	Construction Survey to be conducted six months into construction	Construction As required throughout the duration of the project.	ommuniti	Preconstruction and construction
ENCE	Community and stakeholder groups, any interested parties.	Local businesses, stakeholder groups and any interest parties.	Community and stakeholder groups, residents and businesses, any interested parties.	Community and stakeholder groups, residents and businesses, any interested parties.	/ulnerable communities	CALD nerable dised nities.
AUDIEN	Community stakeholder groups, any interested parties.	Local businesses, stakeholder groups and any interest parties.	Community an stakeholder groups, residents and businesses, any interested parties.	Community an stakeholder groups, residents and businesses, any interested parties.	e and vuli	LOTE, CALD and vulnerable and marginalised communities.
	vith the e ect ject.	ielp igage re missions, acts for ts and ts and r chains.	or on the sen, web- sedback. Il help of and project.	will be e ss around s may fe travel tours.	lly diverse	igement munity TE, erable ups or
 NO	mmunity w to provide btain proj and raise of the pro	ions will r sinesses how to er to prepa age contr ijor projec nal supply	d format for feedback udes writte lephone for iurveys wi vareness nt with the	campaign to increas awarenes a sites, thi moting sa rksites/de	nguistical	and enge ble for all f the comi ose in LO other vuln alised gro s.
DESCRIPTION	Provide community with the opportunity to provide feedback, obtain project information and raise awareness of the project.	These sessions will help regional businesses understand how to engage with buyers, to prepare compliant tender submissions, and to manage contracts for work on major projects and within regional supply chains.	A structured format for community feedback on the project includes written, web- based or telephone feedback. Feedback surveys will help measure awareness of and engagement with the project.	Education campaign will be developed to increase community awareness around construction sites, this may include promoting safe travel through worksites/detours.	Engaging with culturally and linguistically diverse and v	Information and engagement to be available for all members of the community including those in LOTE, CALD and other vulnerable and marginalised groups or communities.
	at				ith cultur	
TOOL/ACTIVITY	Attendance at markets and events	Community and business capability workshops	Feedback surveys	Education opportunities	ngaging w	LOTE, CALD and other vulnerable and marginalised groups and communities

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TOOL/ACTIVITY DESCRIPTION	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	SPECIFICATIONS
					specific local or regional First Nations contexts.



7.1 Community information for construction activities

Inland Rail will use a combination of measures, identified in Table 9: Communication tools and engagement methods, to advise the community in advance of upcoming construction activities, including track authorisations and possessions.

Key methods of communication with the community will vary depending on the work activity, duration, assessment of predicted impacts, and mitigation and management measures, including what, if any, respite requirements may need to be implemented. The main forms of communicating with the broader community of track authorisations and possessions and out-of-hours work are identified below and include:

- project e-newsletters
- project fact sheets/information sheets
- media (e.g. local newspapers advertisement)
- project website
- social media
- works notifications sent to impacted residents.

Where out-of-hours works (OOHW) are required to be completed, Inland Rail will undertake these works in accordance with the EPL and/or the approved OOHW protocol, where the works are not covered by an Environment Protection Licence (EPL), as required by Condition E73.

The Construction Contractor will undertake noise and vibration assessments to determine the impacts to affected residents and sensitive land users and will communicate and notify impacted residents where required by the assessment undertaken.

Additional communication tools will be utilised to communicate and notify impacted residents of the OOHW and respite requirements depending on predicted impacts associated with the work activities. These may include:

- works notifications sent to impacted residents
- media (e.g. local newspapers advertisements)
- letterbox drop
- website notifications displayed on the Inland Rail A2I webpage
- phone call
- door knock
- meetings with highly impacted residents
- negotiated agreements.

The Construction Contractor's Noise and Vibration Management Plan will set out the specific details relating to OOHW.

7.2 Consultation on documents and monitoring programs

The A2I Conditions of Approval specify documents and monitoring programs to be prepared or a review to be undertaken in consultation with identified parties. Table 9 below, lists the individual conditions of approval which relate to a deliverable (e.g. document, monitoring program, review with reference to the condition, the deliverable, stakeholders and level of engagement required. Some other conditions of approval also require consultation if the requirement is triggered, however, these conditions are not listed because the stakeholder (s) and level of engagement will be determined by the triggered circumstances.

Table 9:	Key docum	ents for sta	keholder	consultation
Tuble 7.	Rey abcam	01113 101 310	inconden	consultation

CONDITION	DELIVERABLE	STAKEHOLDERS	LEVEL OF ENGAGEMENT
C1, C2	Construction Environmental Management Plan (CEMP)	ERDPHI (Approve)	Review
C6, (a)	CEMP Sub Plan – Traffic, Transport and Access	 Transport for NSW Relevant Councils ER DPHI (Approver) 	Consult
C6, (c)	CEMP Sub Plan – Noise and Vibration	Relevant CouncilsERDPHI (Approver)	Consult
C6, (d)	CEMP Sub Plan – Biodiversity	 BCS DPI Fisheries Relevant Councils ER DPHI (Approver) 	Consult
C6, (e)	CEMP Sub Plan – Non-Aboriginal Heritage	 Heritage NSW Relevant Councils ER DPHI (Approver) 	Consult
C6, (f)	CEMP Sub Plan – Heritage	 Heritage NSW RAPS Relevant Councils ER DPHI (Approver) 	Consult
C6, (b), (h), (k)	CEMP Sub Plan – Soil, Salinity and Water	 BCS NSW EPA Relevant Councils DCCEEW Water Group ER DPHI (Approver) 	Consult
C6, (g)	CEMP Sub Plan – Flood and Bush Fire Emergency Management	 Hume Zone and Riverina bushfire management committees DCCEEW NSW State Emergency Services Relevant Councils ER DPHI (Approver) 	Consult
C6, (i)	CEMP Sub Plan- Contamination and	Relevant Councils	Consult





CONDITION	DELIVERABLE	STAKEHOLDERS	LEVEL OF ENGAGEMENT
	Hazardous Material plan	DPHI (Approver)	
C6, (j)	CEMP Sub Plan- Waste Management plan	Relevant CouncilsDPHI (Approver)	Consult
C6 (I)	CEMP Sub Plan- Social Impact management plan	DPHI (Approver)Relevant Councils	Consult
C18	Site Establishment Management Plan	 Relevant Councils Relevant Government Agencies ER Planning Secretary (Approver) 	Consult
C26 (a)	Construction Monitoring Programs – Traffic, Transport and Access	 Transport for NSW Relevant Councils ER DPHI (Approver) 	Consult
C26 (b)	Construction Monitoring Programs – Noise and Vibration	Relevant CouncilsERDPHI (Approver)	Consult
C26 (c)	Construction Monitoring Programs – Biodiversity	BCS (NSW DCCEEW)ERDPHI (Approver)	Consult
C26 (d)	Construction Monitoring Programs – Surface Water	 Relevant Councils DCCEEW Water Group ER DPHI (Approver) 	Consult
D5 (a)	Operational Monitoring Programs – Air Quality	NSW EPARelevant CouncilsPlanning Secretary (Approver)	Consult
D5 (b)	Operational Monitoring Programs – Operational Fauna Connectivity Monitoring, Predator Prevention and Adaptive Mitigation Program	 BCS Planning Secretary (Approver) 	Consult
E4	Background Monitoring Plan	• EPA	Consult
E6	Operational Air Quality Review Report	EPAPlanning Secretary (Approver)	Consult



CONDITION	DELIVERABLE	STAKEHOLDERS	LEVEL OF ENGAGEMENT
E26	Sloane's Froglet Management Plan	DCCEEWAffected landownersDPHI (Approver)	Consult
E32	Fauna Connectivity Strategy	BCSDPI FisheriesPlanning Secretary (Approver)	Consult
E43	Flood Design Report	Relevant CouncilsPlanning Secretary (Approver)	Consult
E52	The Albury Railway Station and Yard Group Report	Heritage NSW,Planning Secretary (Approver)	Consult
E55	Heritage Interpretation Plan	 Heritage NSW Heritage Council of NSW Relevant Councils RAP's 	Consult
E63	Aboriginal Archaeological Test Excavation Methodology	 Heritage NSW RAPs LALC Planning Secretary (Approver) 	Consult
E63	Aboriginal Archaeological Salvage Excavation Methodology	 Heritage NSW RAPs LALC Planning Secretary (Approver) 	Consult
E64	Aboriginal Cultural Heritage Excavation Report(s)	 RAPs Planning Secretary (Approver)	Consult
E66	Unexpected Heritage Finds and human Remains Procedure	Heritage NSWHeritage Council of NSWPlanning Secretary (Approver)	Consult
E72	Out-of-Hours Work Protocol	 ER EPA AA Planning Secretary (Approver) 	Consult
E78	CNVIS	Affected sensitive land users	Consult
E89	Operational Noise and Vibration Review (ONVR)	 Relevant Councils EPA Planning Secretary (approver) 	Consult
E108	UDLP	• SDRP	Consult



CONDITION	DELIVERABLE	STAKEHOLDERS	LEVEL OF ENGAGEMENT
		 Heritage NSW TfNSW Relevant Councils Community Planning Secretary (approver) 	
E137	Wagga Wagga Construction Traffic Transport and Access Mitigation Report	 Relevant Road Authority Relevant Council TfNSW Planning Secretary (Approver) 	Consult
E146	Public Level crossing Report	TfNSWRelevant CouncilsPlanning Secretary (Approver)	Consult
E150	Private Level crossing Report	Affected landownersPlanning Secretary (Approver)	Consult
E153	Operational Level Crossing Performance Report	Transport for NSWRelevant Councils	Consult
E155	Wagga Wagga Operational Road Network Performance Plan	 Transport for NSW Relevant Council Emergency Services Wagga Wagga Health Service Planning Secretary (Approver) 	Consult
E156	Wagga Wagga Operational Road Network Performance Review	 Transport for NSW Relevant Council Emergency Services Wagga Wagga Health Precinct 	Consult
E162	System for communication of train movements	LandownersStock operatorsLLS	Consult
E175	Water Pollution Impact Assessment	• EPA	Consult

The process for managing the review of documents and monitoring programs as outlined in Table 9 above is outlined in Table 10 below.



Table 10: Process for managing document review

STEP	APPROACH
1	Stakeholders will be informed prior to the sending of document(s) for review. This notice may be through ongoing engagement channels such as monthly meetings or through other means such as email or phone call.
2	The relevant document will be provided to the respective stakeholder. The document will be sent via email or Aconex with a request for comments by a specified date and requesting a response even if the stakeholder has nil comments.
3	A review period will be established unless specified otherwise in the CoA. Stakeholders will be encouraged to communicate early with any limitation to meet timeframes, and requests for additional time will be duly considered.
4	Where necessary and where requested by a stakeholder, a briefing will be held.
5	Where no response is received within the communicated review period provided, a follow up phone call and/or email will be made. If no response is received within a further five to seven (5 - 7) days outside the communicated review period, a further effort will be made to contact the stakeholder. If there is still no response, the document will be progressed, and it will be assumed that the stakeholder has no comments to provide.
6	Where a stakeholder has raised an issue, Inland Rail will work with the stakeholder to resolve and provide an overview of how the issue was considered and addressed where relevant.
7	Records of engagement (including follow-up engagement) and outcomes will be kept. An associated comments register will be kept recording issues raised, how they were addressed (with associated explanation/reasoning as applicable). These records will be provided to DPHI as required to demonstrate consultation undertaken in accordance with the Conditions of Approval. All engagement is also registered in the Consultation Manager database.



8 Feedback channels and complaints management

Responding to complaints, feedback and enquiries is essential to the successful delivery of the project and maintaining a positive reputation within the community. Complaints, feedback and enquiries may be received from a range of sources including through phone calls, emails and face-to-face interactions.

8.1 Definitions

8.1.1 Complaints

Complaints may include any interaction with a community member or stakeholder who expresses dissatisfaction with the project and/or project works, policies, activities of Inland Rail's contractor's services, or their staff, complaints handling process itself, and/or actions or proposed actions during the project.

8.1.2 Feedback

Inland Rail will classify feedback in accordance with Australian Standard AS/NZS 10002:2014 Guidelines for Complaint Management in Organisations, which defines feedback as "opinions, comments and expressions of interest or concern, made directly or indirectly, explicitly or implicitly to or about the organisation, its products, services, staff or its handling of a complaint".

8.1.3 Enquiry

An enquiry is defined as an act of a stakeholder asking for information relating to the Project.

8.2 Feedback channels

Inland Rail will use the following channels to maintain contact with the community and other stakeholders throughout the life of the A2I project.

CHANNEL	WHERE CAN IT BE FOUND
Email address: inlandrailnsw@inlandrail.com.au	All communication materials and the website display this email address.
Community information line, toll free: 1800 732 761 (24 hours, 7 days a week)	The community information line number is displayed on all communication material (signage, project updates and calling cards, etc.) and on the Inland Rail website (inlandrail.artc.com.au/A2I). The number is monitored and answered by a team member 24 hours a day and is not automatically diverted to a message bank. All calls are registered and recorded on Consultation Manager. The proponent will also run a 24/7 on-call roster to respond to complaints.
Postal address and Reply-Paid facility: Inland Rail Engagement Team GPO Box 14 Sydney NSW 2000 Reply Paid 89629 SYDNEY NSW 2001	This central postal address is displayed and included on all the communication material and the Inland Rail website. It offers another way for the community and other stakeholders to contact the project team, with the Reply-Paid facility providing further encouragement. Correspondence will be redirected to the relevant project team and contractors as required.
Project information Centres: Albury and Wagga Wagga.	The Construction Contractor will establish a physical presence in the communities and ensure all stakeholders have easy access to face-to-face engagement with representatives from the contractor.

Table 11: Feedback channels

CHANNEL	WHERE CAN IT BE FOUND
	The Construction Contractor will ensure that relevant community engagement personnel are available to assist with enquiries at project information centres during business hours. The Public Liaison Officer will also be available to assist the public with questions and complaints that they may have at any time during work. The location of these project information centres will be available on the Inland Rail website.

8.3 Responsibilities

The Inland Rail Stakeholder Engagement team and the Construction Contractor will work closely to respond to all complaints, feedback, and enquiries. Whoever receives the complaint will gather details of the complaint and the complainant's contact details and will immediately pass the details onto the Stakeholder Engagement team to resolve as per the Complaint Management System. All details of complaints will be recorded in Consultation Manager.

Complaints will be managed in accordance with the CoA and other relevant conditions or licences, such as the EPL.

A complaint is deemed to be resolved when it reaches a conclusion, not necessarily resolved to the satisfaction of the complainant.

8.4 Complaints management process

All complaints received during the A2I project will be actioned and recorded through Consultation Manager and used as an improvement opportunity for Inland Rail and the Construction Contractor.

Inland Rail has already established a Complaints Management Process in the lead-up to construction commencing on the project. The Complaints Management Process will be maintained for the duration of construction and for a minimum of 12 months following completion of construction of the CSSI.

PROCESS FOR MANAGING C	OMPLAINTS	
ACTION	TIMEFRAME	TEAM MEMBER RESPONSIBLE
Interaction acknowledged with stakeholder and recorded in Consultation Manager (CM) If received via email, file into the relevant inbox folder	akeholder and recorded in onsultation Manager (CM) If ceived via email, file into the	
Complaint assigned to responsible team member via CM	Day of receipt	Complaints to be assigned to Project Stakeholder Engagement Lead in the first instance. The lead will allocate responsibility for preparing a response as appropriate and also advise any other team members who may need to be aware of the interaction, including the Stakeholder Engagement Manager, Environment Manager, Public Liaison Officer, and relevant Project Manager.
Prepare and send simple responses (e.g. project details)	1-2 days	Team member assigned to response
Information gathered for a more complex response	1-2 days	Team member assigned to response
Draft response	1 day	Team member assigned to response
Response reviewed and approved	1-4 days	Draft to be reviewed/approved by relevant Stakeholder Engagement Lead in the first instance (content of phone call discussed, if responding to an 1800 hotline contact). Lead to secure approvals from Project Manager, Environment Manager

Table 12: Complaints Management Process



PROCESS FOR MANAGING C	OMPLAINTS	
		and Head of Stakeholder Relations as required. Head of Stakeholder Relations to advise if additional approvals are required.
Response sent	Upon approval being received	Team member assigned to response
Response recorded in CM and action closed out	Day of reply	Team member assigned to response
Document any lessons learned and issues that may need to be followed up	2–3 days after response sent	Relevant Stakeholder Engagement Lead Advisor
Assist the public with questions and complaints	As required throughout the works	Public Liaison Officer
Unresolved issue where a member of the public requests the Community Complaints Mediator to review Inland Rail's response	28 days	Community Complaints Mediator.

8.5 Response times to complaints and enquiries

Complaints and enquiries will be responded to in the following timeframes.

8.5.1 Feedback and enquiries:

- provide verbal response to telephone enquiries within two hours if received during work hours or during
 out of hours construction works; for other times, a response will be provide the next business day
- provide written response to emails and written enquires within 24 hours or on the next business day if received outside of work hours
- follow-up calls, emails and letters will be made where required to close out the enquiry.

8.5.2 Complaints and issues:

- provide verbal response to telephone enquires within two hours if received during work hours or during out of hours construction works, for other times a response will be provide the next business day
- provide written response to emails and written complaints within 24 hours or on the next business day if received outside work hours
- where possible, all complaints will be resolved within three business days. Where responses require technical assistance, responses may take up to five business days.

8.6 Complaints Register

All complaints will be tracked and recorded in Inland Rail's CM System. Upon the request of the Secretary of the Department of Planning, Housing and Infrastructure (DPHI), a Complaints Register will be provided, within the timeframe stated in the request.

At the request of the Environment Representative, the details of complaints on the A2I project will be provided in a report format within the agreed time frame. The Environment Representative will have access to Inland Rail's CM system to see all complaints related to the A2I project.

A complaint register will also be provided to the Acoustics Advisor on a weekly basis where complaints have been received, or as otherwise requested.



The Complaints Register provided to the Secretary, Environmental Representative and Acoustic Advisor will include the number of complaints received, the date and time of the complaint, the method by which the complaint was made, the nature of the complaint, any personal details of the complainant which were provided or, if no such details were provided, the number of people affected in relation to complaint, means by which the complaint was addressed and whether resolution was reached, with or without mediation and if no action was taken, the reason(s) why no action was taken.

The Complaints Register will also note whether a complaint has necessitated independent mediation services.

In addition to the information collected in the register, complainants will be advised of the following before, or as soon as practicable after, providing personal information:

- the Complaints Register may be forwarded to Government Agencies such as DPHI to allow them to undertake their regulatory duties
- by providing personal information, the complainant authorises Inland Rail to provide that information to government agencies
- the supply of personal information by the complainant is voluntary
- the complainant has the right to contact government agencies to access personal information held about them and to correct or amend that information (Collection Statement).

A Collection Statement will be included on the project website to make prospective complainants aware of their rights under the *Privacy and Personal Information Protection Act 1998* (NSW).

8.7 Mediation process

Inland Rail has engaged a Community Complaints Mediator that is independent of the design and construction and accredited under the National Mediator Accreditation System, administered by the Mediator Standards Board. The nomination of the Community Complaints Mediator is required to be submitted to the Planning Secretary for approval within one month before commencement of Work (refer to Conditions of Approval B13 – B17) The role of the Community Complaints Mediator is to address any complaint where a member of the public is not satisfied with Inland Rail's response to issues raised through the Complaints Management System. The mediation process will review unresolved disputes relating to the environmental management and delivery of the A2I project where an acceptable resolution to both parties has not been achieved.

Escalation of issues to independent mediation will be in accordance with the Complaint Escalation and Mediation Process (see Table 121: Complaints escalation and mediation process).

Any member of the public that has lodged a complaint that is registered within the Complaints Management System may ask the Community Complaints Mediator to review Inland Rail's response. The application must be submitted in writing and the Community Complaints Mediator must respond within 28 days of the request being made, or other specified timeframe, as agreed between the Community Complaints Mediator and the member of the public.

The Community Complaints Mediator will:

- review unresolved disputes where the complaints escalation procedure and mechanisms have not been able to satisfactorily address the complaint
- make recommendations to Inland Rail to address complaints, resolve disputes or mitigate against the
 occurrence of future complaints and disputes
- provide a copy of the recommendations, and Inland Rail's response to the recommendations, to the Planning Secretary within one month of the recommendations being made.



Inland Rail must implement the recommendations made by the Community Complaints Mediator outlined above, in accordance with Condition B15 and within a timeframe agreed with the Community Complaints Mediator, unless otherwise agreed with the Planning Secretary.

The Community Complaints Mediator will not act before the Complaints Management System has been executed for a complaint and will not consider issues, such as property acquisition, where other dispute processes exist to manage those issues in accordance with Condition B17.

The Environmental Representative will assist in the resolution of community complaints as may be requested by the Planning Secretary.

This mediation process will be available at the commencement of work, maintained for the duration of construction and for 12 months following the completion of construction.

Table 13: Complaints	escalation a	nd mediation	process
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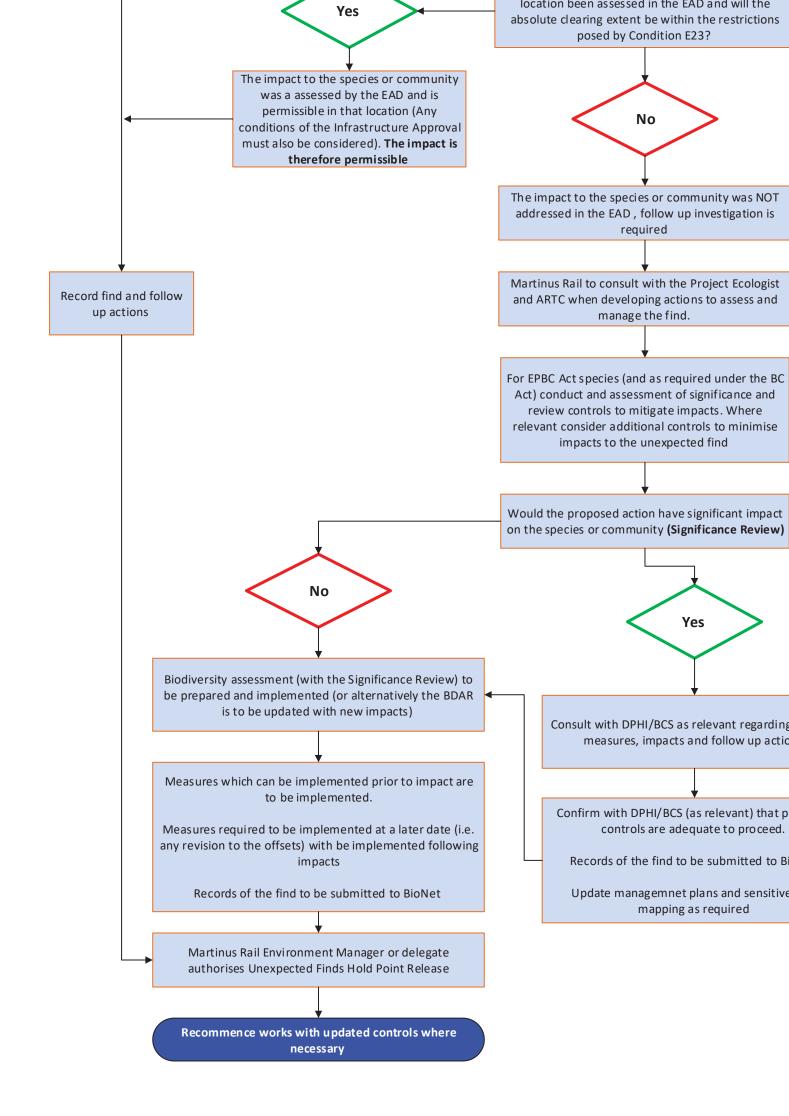
STEPS	PROCEDURE	TIMEFRAME
1	Complaint will be referred to Inland Rail A2I Stakeholder Engagement Lead and/or Project Environment Advisor for Environmental Complaints. They will complete an investigation of the complaint and advise the complainant of the outcome within three (3) business days.	Three business days
2	If not resolved at Step 1, details of the investigation and complaint will be escalated by Inland Rail A2I Stakeholder Engagement Lead to the A2I Senior Project Manager and/or HSE Manager for Environmental Complaints. The relevant level of management will subsequently complete an investigation of the complaint and advise the complainant of the outcome within three business days.	Three business days
3	If not resolved at Step 2, details of the investigation and complaint will be escalated to Inland Rail Head of Stakeholder Relations and Inland Rail A2I Area Director. The relevant level of management will subsequently complete an investigation of the complaint and advise the complainant of the outcome within five business days.	Five business days
4	If not resolved at Step 3, the complainant may request (in writing) the Community Complaints Mediator to review Inland Rail's response to the issue where they are not satisfied with the response. The Community Complaints Mediator must respond within 28 days of the request being made, or other specified timeframe, as agreed between the Community Complaints Mediator and the member of the public. Inland Rail must implement the recommendations made by the Community Complaints Mediator within a timeframe agreed with the Community Complaints Mediator, unless otherwise agreed with the Planning Secretary.	Within 28 days of receiving written application by the complainant, or as agreed by the Community Complaints Mediator





APPENDIX F

Unexpected Finds Procedure (Flora and Fauna)

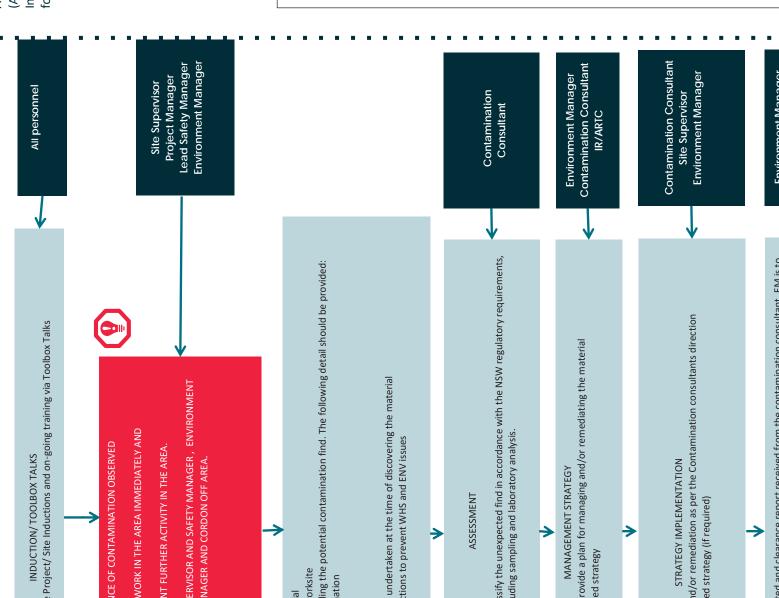






APPENDIX G

Unexpected Finds Procedure (Contamination)



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
- Notify the Site Supervisor first. Site Supervisor will then notify the Project Manager, Safety Manager and Environment Manager. 5
- Notify IR/ARTC within five (5) business days after the discovery. ŝ.
- Control dust by with dust suppression 4
- A certified occupational hygienist is to be engaged to ы.
 - Occupational hygienist arrange for testing of the provide recommendations to manage the area <u>ن</u>
- suspected ACM and monitoring of the area (if required) 7
 - The area is to be made safe as per the certified

Works undertaken in relation to assess, remediate or validate re shall be undertaken by a suitab 'Site Contamination' certificatic **Environment Practitioners Sche** Institute of Australia and New Z Soil Scientist – Contaminated Si under the Soil Science Australia With relevant qualifications and Vational Environmental Protect Contamination) Measure 1999. 2013).





Procedure 1)

- Potential contaminated soil/material encountered during construction activities. STOP / **IMMEDIATELY**
- Undertake a site/area contamination investigation. The Environment Manager (EM) is t considered necessary, commission a suitably qualified contamination specialist to unde investigation in the area of the find. 5
- The consultation specialists in consultation with the EM will determine the appropriate implemented. This may include leaving contamination undisturbed if it does not pose ur health or the environment, capping of contamination, treatment or offsite disposal. If the offsite, ensure the waste facility is appropriately licensed. Contaminated material requir classified in accordance with the Waste Classification Guidelines – Part 1: Classification (Maintain records to demonstrate waste material was appropriately managed ŝ
- lf the material is determined to be Acid Sulfate Soil (ASS) or Potential Acid Sulfate Soil (F Management Plan would be prepared and implemented in accordance with the Acid Su Soil Management Advisory Committee, August 1998). 4
- Prior to any contamination investigation, management or remediation activities approp documentation encompassing safety and environmental risk management will be prepa the EM and IR Э С
- If required a Remedial Action Plan (RAP) will be prepared in accordance with legislative If material is to be treated and reused or left in situ ensure appropriate records are main () A





APPENDIX H

Spill Response Procedure (SRP)





SPILL RESPONSE PROCEDURE A2I | Albury to

IIIabo CONTRACT NUMBER: 0052 PROJECT DOCUMENT NUMBER: 6-0052-210-PES-00-PR-0002



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В	9 October 2024	Second revision for client and ER review and consultation	9 October 2024
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1 INTRODUCTION

1.1 Scope and Purpose

This Spill Response Procedure (this Procedure) forms part of the Stage A Construction Soil and Water Management Plan for the Inland Rail – Albury to Illabo project (the project).

The purpose of this Procedure is to address Condition of Approval (CoA) C13(h), as well as to describe the emergency spill response approach that will be employed by all project site personnel and sub-contractors during construction of the project.

This Procedure is to be applied in the event of a chemical, fuel or oil spill that arises due to the project activities.

1.2 Responsibilities, Inductions and Training

The Martinus Rail Environment, Approvals and Sustainability Manager (MR ESM) is responsible for ensuring this Procedure is effectively implemented, and all site personnel are aware of the requirements of this Procedure.

All site personnel (including sub-contractors) will undertake an induction which will include details relating to this procedure.

Training will also occur through toolbox talks, pre-starts and targeted training, as required, and following any spills that occur on the project.

1.3 Environmental Requirements

This Procedure has been developed to meet the CoA identified in Table 1.

TABLE 1: APPLICABLE COA TO THIS PROCEDURE

СоА	Requirement	Where addressed
C13	The Soil and Water Management Sub-plan must include: h) a spill response procedure;	This Procedure

There applicable Updated Management Measures (UMMs) identified within the PIR RtS specific for spill response management are provided in Table 2.

TABLE 2: APPLICABLE UMMS TO THIS PROCEDURE

No.	Requirement	Where addressed
BD15	Refuelling will be conducted outside of waterfront land, so far as it practicable, with appropriate measures in place to avoid impacts to waterways, aquatic habitats and groundwater. This includes spill kits always kept with maintenance vehicles and or machinery within 100 m of a watercourse.	Section 2.1 Section 2.3



2 PROCEDURE

2.1 Preventative Spill Measures

In order to minimise the potential for environmental impacts to water and soil from spills the following will be undertaken:

- Training in use of spill containment materials, their locations and spill response will be undertaken proactively as
 required particularly for personnel who are working within or near to aquatic environments and are involved in regularly
 handling and using potentially contaminating substances (e.g. personnel who are carrying out refuelling activities);
- Unless unavoidable, washing and maintenance of vehicles and mechanical plant will occur at least 50 m from waterbodies;
- Refuelling will be conducted outside of waterfront land, so far as it practicable, with appropriate measures in place to avoid impacts to waterways, aquatic habitats and groundwater. This includes spill kits always kept with maintenance vehicles and or machinery within 100 m of a watercourse;
- Plant and equipment will undergo regular checks and subsequent repair for potential leakages or worn hydraulic hoses;
- All chemicals including fuels and oils will be stored when not in use in bunded areas;
- All chemicals and hydrocarbons will be stored and handled as per manufacturer's instructions.

Regular inspection of chemical storage areas will be undertaken to assess compliance of the above measures.

2.2 Reactive Spill Measures

All spills are to be managed in accordance with the steps detailed in Figure 1. This includes the following steps:

- 1) Assess the situation;
- 2) Cease work and if safe to do so, control the spill;
- 3) Report the incident;
- 4) Clean up the spill;
- 5) Dispose of contaminated materials;
- 6) Investigation and reporting.



IN THE EVENT OF A SPILL 1. ASSESS THE SITUATION - Is it safe to take action? - What is the source of the spill and can it be stopped, controlled or shutdown? - Consult the Safety Data Sheet - What emergency equipment and PPE is required? - Are there any other hazards that need to be controlled? - Do I need further assistance 2. CEASE WORK AND IF SAFE TO DO SO, CONTROL THE SPILL - Stop work that has resulted in the spill -Stop the flow immediately -Contain the spill -Divert the spill away from waterways if needed -Use bunds, sand etc. to limit the spread of the spill -If spill enters the drainage system stop the spill at the low point (or it's furthest extent) if possible **3. REPORT THE INCIDENT** -Report the event to the Site Supervisor - Site Supervisor to evaluate area and make area safe if possible and assess if further assistance needed - Site Supervisor to notify the environment and safety team - Environment team to notify ARTC. Environment team to determine if any further reporting is required - Safety representative on site to call emergency services if required for large spills beyond the capacity of the work crew to contain or contains hazardous substances, call 000 and request Fire and Rescue HAZMAT. 4. CLEAN UP THE SPILL - Do not hose away spills into the drains or waterways - If necessary, cover spills during rain events and divert upstream water sthrough use of a bund to avoid spread and further contamination - Clean up all contaminated material, soils and water as soon as possible. 5. DISPOSE OF CONTAMINATED MATERIALS - Contaminated materials will be disposed of offsite at a facility authorised to accept the waste. This includes absorbent materials used for clean up 6. INVESTIGATION AND REPORTING - Re-stock spill kits as soon as possible after the incident - The Environment team will investigate and report the spoll as required within the CEMP.

FIGURE 1: SPILL RESPONSE PROCEDURE FLOW CHART

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2.3 Spill Containment

Spill containment materials such as those listed in Table 3 referred to as 'spill kits' will be kept and stocked on site at any location where there is significant risk/potential impact of a spill. Examples of potential locations include refuelling areas, chemical storage or where works are within the vicinity of waterways. Spill kits could be stored in a fixed location or be mobile. Spill kits will be placed in dedicated, visible and accessible locations.

Spill kits will always be kept with maintenance vehicles and or machinery within 100 m of a watercourse.

The spill kits will be appropriately sized according to the volume of chemicals and fuels being stored or used and the activities which are being undertaken. All staff would be made aware of the location of the spill kit and trained in its use. Spill kits would be restocked as soon as possible after each use, with used material replaced.

Table 3 provides examples of appropriate application of material types. Spill kit inspections are to be undertaken on regular intervals such as during the weekly environmental site inspections detailed within the Construction Environmental Management Plan. The inspections would check that spill kits are present at the required locations, are accessible and appropriately stocked.

Product	Description/Application
Pads, pillows and socks	 Used to clean-up (absorb) small to medium liquid spills on land rather than containing; Thin absorbent mats placed over spills; Cushion shaped products containing absorbent fibres, used directly under a leak or drip; Absorbent socks placed at the low point of a spill; Consider the need to have a spill kit containing these at the source of the activity and extras in-stock on site; If these materials are not enough to clean-up the spill, consider using absorbent granular materials or equivalent.
Sorbents	 Used during clean-up, sorbents are materials that soak up the spill such as saw dust, granules or peat mixture; Spread the sorbent over the contaminant after control materials have been applied; Recover the contaminant/sorbent mixture using shovels/excavator bucket or similar; Sorbents can be used from small to large spills.
Drip trays and washout bunds	 Used to contain incidental leaks during plant and equipment maintenance; Containers should be maintained, and liquids/sludge collected; Consider if these containers are not sufficient to contain leaks/washout then construction of permanent bunding may be suitable.
Manual recovery	 Used to physically remove the contaminant either by excavating the contaminant and adjacent soil on land or pump / vacuum truck removal for contaminant and adjacent liquid/sludge in waterbodies; Control materials should be installed prior to manual recovery to prevent spread during recovery task.

TABLE 3: SPILL CONTAINMENT MATERIALS

2.4 Incident management

Environmental incidents will be managed (including notifications and investigations) in accordance with the Construction Environment Management Plan.



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