



MINOR ANCILLARY FACILITY ASSESSMENT – JUNEE TO ILLABO (J2I) CLEARANCES A2I | Albury to Illabo

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Definitions and Acronyms

TERM	DEFINITION	
A2I	Albury to Illabo (the Project)	
AA	Acoustic Advisor	
AEC	Area of Environmental Concern	
AF	Ancillary Facility	
Ancillary facility	A temporary facility for construction of the CSSI including an office and amenities compound, construction compound, material crushing and screening plant, materials storage compound, maintenance workshop, testing laboratory, a fixed material stockpile area and car parking facilities.	
ASS	Acid Sulfate Soils	
BTEX	Benzene, Toluene, Ethylbenzene and Xylene	
СоА	Condition(s) of Approval	
Construction	Includes work required to construct the CSSI as defined in the Project Description described in the documents listed in Condition A1 including commissioning trials of equipment and temporary use of any part of the CSSI but excluding Low Impact Work which is carried out or completed prior to approval of the CEMP.	
Construction boundary	The area physically affected by work as defined in the Project Description as described in the documents listed in Condition A1.	
CCS	Community Communication Strategy	
CEMP	Construction Environmental Management Plan	
CSSI	Critical state Significant Infrastructure	
dBA	A-weighted decibel (referenced 20 μPa)	
DPHI	Department of Planning, Housing and Infrastructure	
EAD	Environmental Assessment Documentation	
EIS	Environmental Impact Statement	
EPA	Environment Protection Authority	
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999	
EPL	Environment Protection Licence	
ER	Environmental Representative	
ESCP	Erosion and Sediment Control Plan	
GDE	Groundwater Dependant Ecosystem	



TERM	DEFINITION	
Heavy vehicle	Has the same meaning as in the Heavy Vehicle National Law 2013 (NSW).	
ICNG	Interim Construction Noise Guideline	
IRPL	Inland Rail Pty Ltd	
J2I	Junee to Illabo	
LGA	Local Government Area	
Local road	Any road that is not defined as a classified road under the Roads Act 1993 (NSW).	
MAF	Minor Ancillary Facility. MAFs are considered to be lunch sheds, office sheds and portable toilet facilities or similar.	
MEHD	Miscellaneous ecosystem – highly disturbed areas with no or limited native vegetation	
NCA	Noise Catchment Area	
NML	Noise Management Level	
PCT	Plant Community Type	
PIR	Preferred Infrastructure Report	
POEO Act	Protection of the Environment Operations Act 1997 (NSW)	
Project Approval	Approval for A2I (SSI - 10055) issued by the NSW Minister for Planning and Public Spaces	
RBL	Rating Background Level	
RFS	Rural Fire Services	
SEP	Site Environmental Plan	
SSI	State Significant Infrastructure	
TRH	Total Recoverable Hydrocarbons	
UMM	Updated Mitigation Measures described in the documents listed in CoA A1.	
Work	Any physical activity for the purpose of the CSSI including Construction and Low Impact Work but not including operational maintenance work.	



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1. INTRODUCTION

The Inland Rail (IRPL) - Albury to Illabo (A2I) Project (the Project) will see enhancement works to structures and sections of track along 185 km of the existing operational standard-gauge railway between Albury and Illabo, to accommodate double-stacked freight trains up to 1,800 m long and 6.5 m high.

Enhancement works are required to provide the increased vertical and horizontal clearances required for double-stacked freight trains. Works to facilitate the construction of the Project 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.

The land required for construction comprises the existing railway corridor at the work sites with additional areas at these locations to accommodate construction activities and ancillary facilities, which would be removed on construction completion, along with any infrastructure used to support construction. The Project's final land requirement would maintain the existing operational railway corridor with additions to accommodate any revised infrastructure and associated operational requirements. Clearing and grubbing of the Project site would occur as necessary to accommodate works and to maintain the safe operational area of the railway.

The Project is generally within the existing rail corridor (the Main South Line) extending from the town of Albury on the Victoria–NSW border to around 3 km to the north-east of Illabo. The Main South Line links Sydney with Melbourne with the A2I sections opened between 1877 and 1881.

The alignment passes through two major regional towns - Albury and Wagga Wagga in NSW - and several smaller regional towns. Works are proposed at 24 locations along the Main South Line corridor, described as 'enhancement sites'. The name and location of these enhancement sites are identified in Table 1.

Precinct	Enhancement sites	QLD Brobert
	Murray River bridge	BETHUNGRA
Albury Precinct	Albury Station pedestrian bridge	OLYMPIC HIGHWAY UNDERBRIDGE
	Albury Yard clearances	VC Understand PEDESTRIAN SRIDES JUNEE JUNEE DURAE DURAE DURAE CLEARANCES
	Riverina Highway bridge	NEW FIREFORD
	Billy Hughes bridge	
	Table Top Yard clearances	WAGGA WAGG STATION PEDETALAN BRIDE WAGGA WAGGAT, BOMEN
	Culcairn pedestrian bridge	PEARSON STREET BRIDGE WAGGA WAGGA YARD CLEARANCES
Greater Hume-Lockhart	Culcairn Yard clearances	URANQUINTY YARD CLEARANCES LOCKHART THE ROCK POSSBOR PARADE
	Henty Yard clearances	
	Yerong Creek Yard clearances	VERONG CREEK YARD CLEARANCES YERONG CREEK
	The Rock Yard clearances	VARD CLEARANCES
	Uranquinty Yard clearances	
Wagga Wagga	Pearson Street bridge	
	Cassidy Parade pedestrian bridge	
	Edmonson Street bridge	CULCARN HOLBROOK BEIDGE
	Wagga Wagga Station pedestrian bridge	
	Wagga Wagga Yard clearances	
	Bomen Yard clearances	TABLE TOP YARD
	Harefield Yard clearances	HOWLONG ALBURY ALBURY STATION RIVERINA HIGHWAY BRIDGE
Junee	Kemp Street bridge	HOWLORG
	Junee Station pedestrian bridge	MURRAY RIVER BRIDGE
	Junee Yard clearances	Legend VIC
	Olympic Highway underbridge	Proposi site National Park Herein railway State Forest
	Junee to Illabo clearances	Existing failway State Porest River 6_19_29

FIGURE 1: PROJECT ENHANCEMENT SITES



1.1 Definition of a Minor Ancillary Facility

In accordance with the definitions of an ancillary facility under SSI - 10055 (Project Approval), the following is noted for a Minor Ancillary Facility (MAF):

Minor ancillary facilities are considered to be lunch sheds, office sheds and portable toilet facilities or similar.

As per the Minister's Conditions of Approval (CoA) the approved Environmental Representative (ER) must consider or assess the impacts of MAFs as required by CoA C23.

Under CoA C23, MAFs can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria:

- a) are located within or immediately adjacent to the construction boundary; and
- b) have been assessed by the ER to have:
 - i) minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009) (ICNG), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts; and
 - *ii)* minimal environmental impact with respect to waste management and flooding; and
 - *iii)* no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval

The MAF site identified in this application is located within the approved construction boundary.



2. MINOR ANCILLARY FACILITY

2.1 Site Description

The proposed MAF is located within the Junee to Illabo enhancement site, in Illabo along Olympic Highway, as shown in Figure 2 and J2I's Site Environmental Plan (SEP) (Appendix B). The location of the proposed MAF has also been discussed and shown in the construction layout of Junee to Illabo Clearances (J2I) in the EIS Chapter 8 (Figure 8-14) (shown in Figure 3).

The closest receiver is a residential receiver approximately 70 metres from the proposed MAF, separated by the rail corridor along Wood Street off Olympic Highway. One educational institution (Illabo Public School) located at Layton Street, Illabo. There are several other sensitive receivers to the north, south and west of the proposed MAF, these include residential, commercial and recreational land uses.

The nearest waterway is Jeralgambeth Creek which is located immediately east of the proposed MAF. The proposed MAF is located alongside flood prone land.

Areas of Environmental Concern (AEC 47 Illabo RFS building and AEC 48 Ballast stockpiles) are located within the vicinity of the proposed MAF (refer to Figure 4).

Minor trimming and clearing of vegetation is proposed to prepare the area for site establishment activities.

Access and egress to and from the proposed MAF would be via Olympic Highway (as shown in Figure 2). The daily peak number of heavy vehicle movements associated with the site establishment activities will be limited to 5 in total (as presented in Table 1).

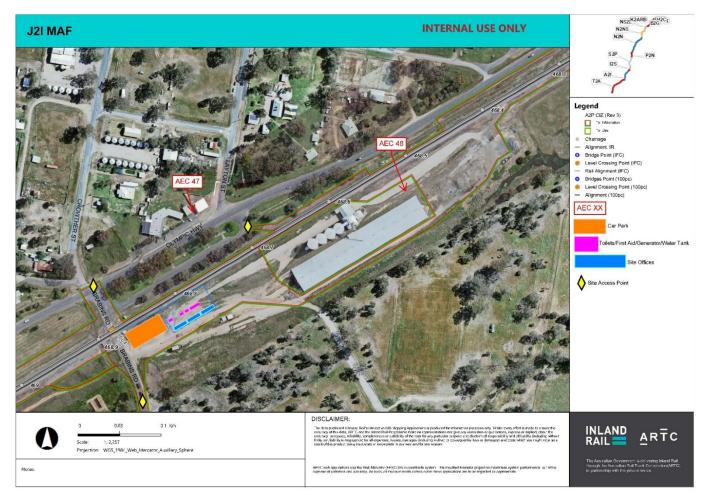


FIGURE 2: PROPOSED MAF LOCATION



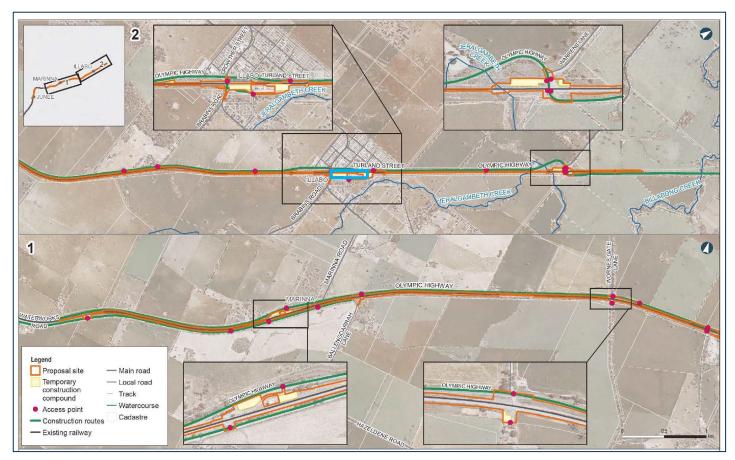
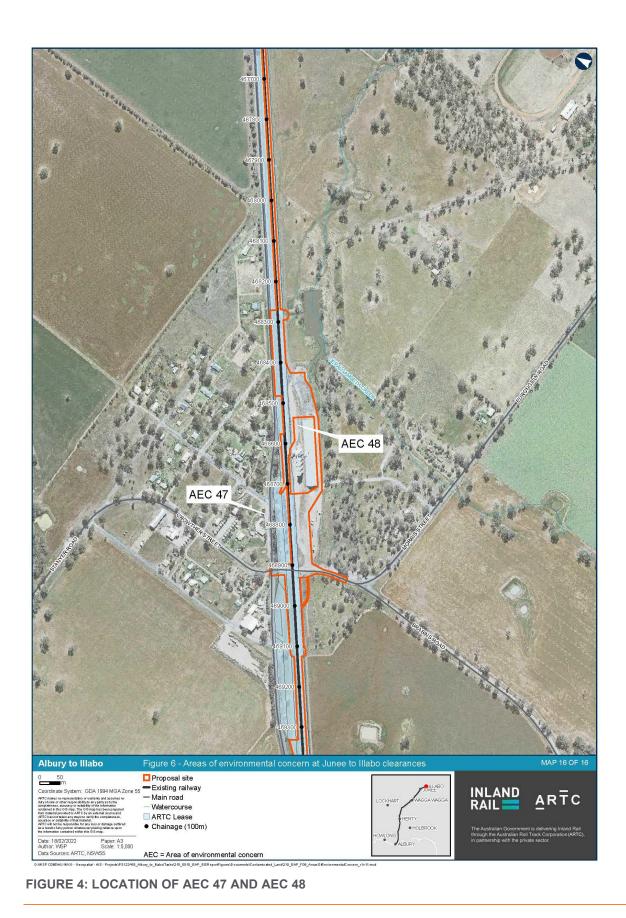


FIGURE 3: PROPOSED MAF LOCATION AS PER THE EIS (CHAPTER 8)

* Location of proposed MAF has been shown in blue as reference to the wider construction layout for J2I clearances







2.2 **Proposed Activities**

To establish the proposed MAF, the following activities are proposed:

- Ground levelling activities, involving preparation of site to ensure ground is at a suitable level for placing the crib sheds, amenities and parking;
- Once appropriate levelling activities have been undertaken, densely graded base (DGB) or equivalent material would be placed to stabilise the area before the crib shed and amenity structures are placed;
- Line marking of parking areas and installation of signage will be undertaken last.

In accordance with the definition of a MAF under the Project Approval (and as per Section 1.1), the site would be used for the following during its operation:

- Crib sheds;
- Portable toilet facilities;
- Parking areas for construction heavy and light vehicles and shuttle buses; and
- Supporting low impact works (LIW) along the Junee to Illabo enhancement site.

Site establishment and operation of the MAF would be undertaken during standard construction hours only (as per Project's Environment Protection Licence #21984 (EPL)), which are as follows:

- 7:00 am and 6:00 pm Monday to Friday;
- 8:00 am and 1:00 pm Saturday; and
- not be undertaken on Sundays or Public Holidays.

No stockpiling or storage of materials will occur at the site during the Low Impact Works (LIW) as per CoA A22(i).

It is anticipated that the MAF would be used by up to 30 workers per day at peak and would be in place from January 2025 to February 2026. A subsequent assessment will be undertaken transitioning the MAF to an Ancillary Facility (AF) which will support the Stage A works.

Table 1 below summarises the daily peak number of light vehicles (LVs) and heavy vehicles (HVs) that will be utilised during the proposed MAF establishment and operational activities.

TABLE 1: DAILY PEAK NUMBER OF VEHICLES DURING MAF ACTIVITIES

Activities	Light vehicles (LVs)	Heavy vehicles (HVs)
MAF Establishment	15	5
MAF Operation	15	5



3. ASSESSMENT

Table 2 contains the assessment of aspects and impacts associated with establishment and operation (under LIW) of the proposed MAF.

TABLE 2: ASSESSMENT OF ACTIVITIES

Aspect	Existing environment	Potential impacts	Proposed mitigation measures
Community and Stakeholders	The proposed MAF is located within the approved construction boundary, with residential, educational, commercial and recreational receivers to the north and west of the site. One educational receiver is located approximately 50m away from the proposed MAF, with an existing rail corridor located in between. The proposed MAF would require access from the existing GrainCorp facility at Illabo in order to undertake site establishment activities. Refer to Figure 2 for the site location of the proposed MAF.	Noise and vibration impacts are anticipated to be minor in nature and are discussed in greater detail in the subsection (Noise and Vibration) below. The MAF would only operate during approved standard hours and support the J2I LIW scope of work. No other potential impacts have been identified to the community in the vicinity of the proposed MAF.	The following mitigation measures have been proposed: • Community communication to be undertaken in accordance with the Project's Community Communications Strategy (CCS) (refer to Appendix C). • Community notifications to be made available through the below link: https://inlandrail.com.au/wherewe- go/Projects/albury-toillabo/works- notifications/ • Any complaints that may arise during the establishment and operation of the MAF will be managed as per the CCS.
Traffic and Transport	In accordance with the EIS (Chapter 9 and Tech Paper 1), construction vehicle volumes using construction routes and accesses on local roads are generally low. Site access for the proposed MAF would be through the existing Olympic Highway and property access at GrainCorp Illabo. However, no work will be required at the GrainCorp Illabo site. The following information has been noted for Olympic Highway: • A41 Olympic Highway (State Road): » Two-lane, two-way road. Near the enhancement sites the road generally features 3.5m wide lanes with partially sealed	As noted in Table 1, the following daily peak number of LVs and HVs are as follow: <u>MAF establishment</u> • 15 LVs • 5 HVs <u>MAF operation</u> • 15 LVs • 5 HVs Construction traffic associated with the establishment and operation of the proposed MAF is not expected to impact existing traffic volumes. Construction vehicles would be using approved access to and from site as seen in Figure 2. Construction vehicles would park within the proposed MAF while not in use and would utilise available public parking while in use.	 The following mitigation measures have been proposed: 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 compound to avoid impacts on neighbouring streets. Formal written agreement from the landowner of GrainCorp Illabo would be obtained prior to property access proceeding and to be managed as per the CCS. (CoA E157 and CoA E158).



Noise and Vibration	shoulders and a posted speed limit of 50-100km/h; » Traffic volume noted as 1,718 (counted in 2011) (16% heavy vehicle proportion). There are no existing pedestrian and cyclist provisions along the Olympic Highway. The S223 service operates along the Olympic Highway with a bus stop located at Turland Street and Layton Street. There are no existing formal parking facilities along the Olympic Highway.	There are no proposed or expected changes to the existing road or rail corridor as part of the proposed MAF. No impact upon public transport operations is expected. There will be no change to or impact to pedestrian and cyclist facilities or access during the proposed MAF. There will be no change or impact to access for businesses and/or residents during the proposed MAF. Consultation in relation to property access at GrainCorp Illabo, will be managed in accordance with the Community Communication Strategy (CCS) (refer to Appendix E).	The following mitigation measures
Noise and Vibration	A Construction Noise and Vibration Impact Statement (CNVIS) has been prepared for the Junee to Illabo clearances and included the proposed MAF location and associated activities (Appendix D). The CNVIS has been prepared with reference to the Interim Construction Noise Guideline (ICNG) (DECC, 2009), with the associated impacts discussed as per CoA C23(b)(i). The CNVIS noted the proposed MAF is located within Noise Catchment Area (NCA) 15, with the following rating background level (RBL) and noise management level (NML) (RBL+10 dBA) noted: <u>NCA 15's RBLs:</u> Daytime – 41 dBA <u>NCA 15's NMLs:</u> Daytime – 51 dBA	 The CNVIS has assessed the number of receivers that will be impacted during the proposed MAF activities which include site establishment, and operation of MAF (including deliveries at the MAF). These works have been noted as work scenarios W.001 and W.002 with the following noted: 17 residential receivers is predicted to experience a 1-10 dBA NML exceedance; 1 residential receiver is predicted to experience a 11-20 dBA NML exceedance; and 5 other sensitive receivers are predicted to experience a 1-10 dBA NML exceedance; 9 residential receivers are predicted to a to experience a 1-10 dBA NML exceedance; 1 residential receiver is predicted to experience a 11-20 dBA NML exceedance; 1 other sensitive receivers are predicted to experience a 1-10 dBA NML exceedance. 	 have been proposed as per the CNVIS (Appendix D): 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. (CoA E76) Training will be provided to all personnel on noise requirements for the proposed MAF. Inductions and toolbox talks to be used to inform personnel of the location and sensitivity of surrounding receivers.



There are approximately 154 receivers located within	a 1-10 dBA NML exceedance.		techniques that should be implemented.
NCA 15. Illabo Public School is located near the proposed MAF (educational receiver). NML for receivers other	Highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken (CoA E70):	•	Training must be conducted for appropriate community behaviours when accessing the proposed MAF. All plant and equipment must be maintained in a proper and
 than residential receivers (Illabo Public School): Internal noise level of 45 dBA External noise level of 	 Between 08:00am – 06:00pm Monday to Friday; Between 08:00am – 01:00pm Saturday; and if continuously, then not 		efficient condition, operated in a proper and efficient manner, and feature standard noise reduction measures where applicable.
55 dBA Background noise for these receivers is influenced by the existing rail corridor and the Olympic Highway.	 if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one hour. The proposed MAF activities would be carried out during standard construction hours and would not involve any OOHW. 	•	Where possible, plant and equipment must be selected that can be fitted 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.
	As noted in the EIS (Chapter 15), following the implementation of standard mitigation measures, predicted impacts show a minor reduction in potentially noise-impacted receivers during preliminary works	•	Where practicable, tonal reversing alarms (beepers) will be replaced with non-tonal alarms (squawkers) on all equipment in use (subject to occupational health and safety requirements).
	(which include the proposed MAF activities). The proposed MAF would not involve any ground-borne noise or vibration-intensive equipment.	•	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.
	The proposed MAF would involve the use of a static roller, to be used during site establishment activities.	•	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 away from noise
		-	sensitive areas, where practicable. 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.



Biodiversity	Vegetation within the proposed MAF has been historically disturbed from agricultural, industrial, infrastructure (road and rail), residential and community use. As such, limited ecological function and significance is associated with it. Vegetation that has been identified is as follows: • Miscellaneous Ecosystems – 'Highly Disturbed areas with no or limited Native Vegetation' (MEHD)	Minor trimming and clearing of vegetation is required as part of the MAF activities. No impacts to threatened species and population or ecological communities are expected during the MAF activities. The clearing of vegetation would have the potential to increase the invasion of unknown weed species. A pre-clearance survey is currently being developed. No clearing of native vegetation (PCT 277) will be undertaken prior to the retirement of biodiversity credits as required by CoA E24. No TEC will be impacted as a result of the activities associated with the proposed MAF.	 Truck movements will be kept to a minimum (i.e. trucks are fully loaded on each trip) Consultation with affected sensitive receivers will be undertaken as per the CCS (Appendix C). The following mitigation measures have been proposed: Training will be provided to all Project personnel, including relevant sub-contractors on biodiversity management practices and the requirements from this Plan 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 SEP (refer to Appendix B) will be developed for construction teams. The extent of clearing required for construction of infrastructure is to be surveyed and marked out on site. Construction workforce will be supplied with sensitive area maps (showing clearing boundaries and exclusion zones), including updates as required. (UMM BD7) Detailed design and construction planning will identify refinements that further avoid or minimise the need to further impact or disturb native vegetation, fauna habitat and riparian habitat. (UMM BD1) The Martinus Rail Environment, Sustainability and Approvals Manager (ESM) or delegate will ensure delineation installed is
			Environment, Sustainability and Approvals Manager (ESM) or delegate will ensure



	zones are consistent with those identified as no-go zones within the SEP.
	 Pre-clearance surveys will be carried out prior to construction by a suitability qualified ecologist. This would include but not be limited to:
	» Inspections of artificial and natural structures that provide potential microbat habitat. If bats are identified roosting in these structures, individuals will be excluded from this habitat (meaning bats can exit the habitat unharmed during their nocturnal activity period but not re-enter);
	 Pre-clearance disturbance survey including mapping of weeds and development of suitable controls to manage them;
	 » Verification that the area cleared is correct and within the boundary and GIS data provided to IRPL. (UMM BD5)
	 At the completion of clearing, the Project ecologist will prepare a Post-Clearing Report.
	 If any unexpected fauna finds are identified, the Unexpected Finds Procedure for Flora and Fauna (Appendix E) will be followed.
	 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 Finds Procedure for Flora and Fauna (Appendix E) will be implemented. Handling of fauna during the Project may be required if fauna is 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 in Appendix F.
Soil and Water	There are no waterways or groundwater dependent ecosystems (GDEs) located near the proposed MAF. As noted in the EIS (Chapter 20), the proposed MAF is located alongside Jeralgambeth Creek, which flows into Illabo Dam,800m east of the proposed activities. The location of the Jeralgambeth Creek in proximity to the proposed MAF location is shown in Figure 3. There is a low probability of acid sulfate soils (ASS) within the proposed MAF. The proposed MAF would be also located on land described as the 0.3m upper soil being naturally very strongly acidic to strongly acidic.	 To establish the proposed MAF, the following activities are proposed: Ground levelling activities, involving preparation of site to ensure ground is at a suitable level for placing the crib sheds, amenities and parking; Once appropriate levelling activities have been undertaken, densely graded base (DGB) would be placed to stabilise the area before the crib shed and amenity structures are placed; Line marking of parking areas and installation of signage will be undertaken last. The proposed MAF scope of works do not include any works to be undertaken within the Jeralgambeth Creek, therefore there are no expected impacts. There is a low probability of ASS within the proposed MAF location. 	 The following mitigation measures have been proposed: Training will be provided to all Project personnel, including relevant subcontractors on soil, water and contamination management and the requirements from this plan 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 accordance with the Acid Sulfate Soils Manual (Acid Sulfate Soils Manual (Acid Sulfate Soils Management Advisory Committee, 1998b) and the Waste Classification Guidelines – Part 4: Acid Sulfate Soils (NSW EPA, 2014b). Construction materials such as fuels, chemicals, vehicles and equipment will be appropriately stored to minimise the introduction of contaminants to the existing



		during site establishment activities. There is a risk that a spill may occur as a result from a leak from construction light vehicles and/or a chemical container.	 soil, groundwater and surface water runoff. In the event of a spill incident of chemicals, fuels or other hazardous substances, the Spill Response Procedure (Appendix G) will be followed. Appropriate spill containment equipment (such as 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	 As noted in the EIS (Technical Paper 13), there are two Areas of Environmental Concern (AEC) located in the vicinity of the proposed MAF. The following details have been noted for each AEC: <u>AEC 47</u> Illabo RFS: potential historical chemical storage at the Illabo RFS building; Contaminants of concern include TRH and BTEX; AEC 47 is located approximately 85m north-west of the proposed MAF. <u>AEC 48</u> Ballast stockpiles at GrainCorp Illabo; AEC 48 is located approximately 200m to the east of the proposed MAF. The locations of AEC 47 and AEC 48 are shown in Figure 2 and Figure 4. 	There is a general contamination risk present within the proposed MAF site. As part of the proposed MAF activities, there will be minor ground disturbance during the ground levelling and laying of DGB activities. As noted in the EIS (Technical Paper 13), the risk, associated with AEC 47 and AEC 48, has been assessed as low. AEC 47 and AEC 48 are located outside the CIZ and therefore would not be disturbed. Due to the nature of the works proposed as part of the MAF, no site investigation is proposed to be undertaken. In the instance that unexpected contamination or asbestos (suspected contamination) is encountered, the Unexpected Finds Procedure for Contamination (Appendix H) will be followed.	 The following mitigation measure has been proposed: The Unexpected Finds Procedure for Contamination (Appendix H) will be followed should any unexpected contamination or asbestos (suspected contamination) be encountered or otherwise discovered. (CoA E128)
Heritage	As noted in the EIS (Chapter 10 and 11), there are no known Aboriginal and non-Aboriginal heritage items that overlap within the Junee to Illabo clearances enhancement	As noted in the EIS (Chapters 10 and 11), there are no known Aboriginal and non-Aboriginal heritage items located within the proposed MAF location, therefore there	 The following mitigation measures has been proposed: If at any time during the proposed MAF activities, any items of potential Aboriginal or non-Aboriginal heritage significance are discovered



A2I | ALBURY TO ILLABO MINOR ANCILLARY FACILITY ASSESSMENT – JUNEE TO ILLABO (J2I) CLEARANCES

	site (including the proposed MAF). As noted in the EIS (Chapter 11), the nearest known heritage item is located in Junee, approximately 14km south- west of the proposed MAF.	will be no anticipated impacts. If at any time, during the proposed MAF activities, any items of potential Aboriginal or non-Aboriginal heritage significance are discovered they would be managed in accordance with the Unexpected Finds Procedure for Heritage and Human Remains (Appendix I)	they would be managed in accordance with the Unexpected Finds Procedure for Heritage and Human Remains (Appendix I). (E66)
Flooding and Bushfire Risk	In accordance with the EIS (Chapter 18), the proposed MAF site is not within a flood-prone area and is not affected by potential flood events up to the 1% AEP. However, the site is affected by overland flooding. In accordance with the EIS (Chapter 24), the proposed MAF is not located on bushfire prone land.	The proposed MAF may be impacted in a flood event. The proposed MAF has the potential to redistribute overland flows and stormwater during construction.	 The following mitigation measure have been proposed: Site personnel to monitor Bureau of Meteorology (BoM) weather forecasts on a regular (weekly) basis for significant rainfall events. In the event that a potential 5% AEP or greater flood event all feasible and reasonable fuels, chemicals, equipment and plant items to be removed from site or elevated above flood levels (0.3m). Emergency response and management will be undertaken in accordance with the Project's Flooding and Bushfire Emergency Management Plan (Appendix J).
Waste, Air Quality and Odour	The proposed MAF activities are likely to generate potential waste during construction. The waste material has been identified as construction waste and general solid waste. As noted in the EIS (Chapter 23) these waste types are general solid waste (non- putrescible) and will be confirmed via waste classification.	There is the potential of waste being improperly handled, stored and disposed of. Personnel will receive on-site training on handling, storing and disposing of waste generated on the premises. Waste bins will be made available and maintained on site. There is the potential for odour and dust generation as part of construction and operation of the proposed MAF, however this would be negligible and limited to activities involving, minor trimming/clearing of vegetation, use of generator, use of portable toilets, and laying DGB.	 The following mitigation measures have been proposed: 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 not possible, waste is not possible, or recovering waste is not possible, wa



		During waste collection, there is the potential for waste tracking onto local roads. Construction waste management activities will not have a significant impact on the environment or community, provided the appropriate mitigation measures are implemented.	 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 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. (CoA E167)
Visual and Light Spill	 The EIS (Chapter 17) identified two viewpoints relating to the proposed works with the following noted: <u>Viewpoint 29</u> View southwest from the Olympic Highway rest stop, Illabo (local sensitivity – daytime) This view would be experienced by a moderate number of people including those using the rest stop and open space, and from vehicles travelling along the adjacent highway. <u>Viewpoint 30</u> View south from Wood Street, Illabo (neighbourhood sensitivity – daytime) This view would be experienced by residents in adjoining residential properties and from vehicles, travelling along this local road. The historic character concrete silo is an important local visual feature in the view. The proposed MAF activities would involve the removal of some vegetation. The night-time visual environment within the 	The removal of vegetation would be undertaken within the approved construction boundary and would have a minor, short-term visual impact. No OOHW have been proposed as part of the MAF scope, however, some light spill may occur from construction vehicle headlights and lighting associated with site offices.	 The following mitigation measures have been proposed: The MAF will be designed and orientated to minimise visual impacts. This will include the following where appropriate: » Locating areas of low visual amenity away from sensitive receivers. » However, some light spill may occur from construction vehicle headlights and lighting associated with site offices » Erecting boundary screening around compound.



as moderate sensitivity.	(Junee to Illabo enhancement site is noted as moderate sensitivity.		
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APPENDICES





APPENDIX A

MAF Application Assessment



Martinus proposes to establish and operate a MAF to support works in Illabo associated with the wider scope of works for Junee to Illabo (J2I) clearances.

Table 3 below provides an assessment of Martinus's MAF application.

TABLE 3: MAF ASSESSMENT

Step 1 – Minor ancilla	ry facility information				
Site location (attach map for reference):	Site location for the proposed MAF is shown in Figure 2.				
Date works to commence: March 2025	Date works to finish: It is anticipated that the MAF will be in place until mid-2025, or whenever the wider Junee to Illabo clearances scope has been completed.				
Minor Construction A (select all that apply):	ncillary Facilities in ac	cord	ance with the	definition of a MAF under the Project Approval	
Lunch sheds/office sh	eds	x			
Portable toilet facilities	3	x			
Or similar					
Step 2 – Compliance v	with CoAs				
СоА	Requirement			Compliance	
CoA A18	MAFs are permissible, subject to approval by the Environmental Representative (ER) and determined to have minimal environmental impact.		ntal etermined to	The proposed MAF, as described in this MAF assessment, will have minor environmental and community impacts. Section 3 provides an assessment for all associated environmental aspects.	
	the MAFs can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria:		essed in the on A1 or	As noted below.	
	(a) are located within of adjacent to the constru- and		-	The proposed MAF is located within the approved construction boundary, part of the wider scope of works for the Junee to Illabo (J2I) Clearances.	
	(b) have been assesse have:	ed by	the ER to	As noted below.	
CoA C23	(i) minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009) (ICNG), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts; and		d ation of e with the Guideline fic and odour	The activities associated with the establishment and operation of the proposed MAF, as noted in Section 3, would have minimal environmental impact with respect to traffic and access, noise, dust and odour, and visual (including light spill). Traffic and transport, noise, dust, odour and visual (including light spill) impacts will be managed accordingly and as per the proposed mitigation measures in Section 3.	
	(ii) minimal environme respect to waste mana flooding;			The activities associated with the establishment and operation of the proposed MAF, as noted in	



Additional comments/	Mar 7, 2025, 11:58 A	M GMT+11:00
Name:	Signature: Mr Derek Low - Wol	fPeak:
Does the proposed Mind	or Ancillary Facility meet the requirements	
Step 4 – Environmenta	I Representative sign off	
Name: Chris Standing	Signature:	Date: 06/03/2025
Environment and Sust	ainability Manager	·]
Name:	Signature:	Date:
Construction Manager		
Step 3 – Internal sign of	if	
		An Erosion and Sedimentation Control Plan (ESCP) would be prepared and implemented as appropriate during MAF activities.
	terms of this approval	Minor trimming and clearing of vegetation will be required for site establishment activities, with appropriate flora and fauna mitigation measures to be followed as per the proposed mitigation measures in Section 3.
	(iii) no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other	There are no known Aboriginal or non-Aboriginal items or sites within or in the vicinity of the proposed MAF, and therefore no impacts are expected.
		Due to the location and nature of the activities associated with the establishment of the MAF, no impacts on biodiversity, soil and water, beyond those already approved under the other terms of the Project Approval, are expected.
		MAF activities. The MAF activities will result to a minor amount of waste, where material will be managed and disposed offsite accordingly and as per the proposed mitigation measures in Section 3.
		The proposed MAF is not located on flood prone land. The flooding and emergency plan will be prepared and implemented as required during the
		Section 3, would have minimal environmental impact with respect to waste management.

This sign off confirms that the ER considers the application meets the definitions of a Minor Ancillary Facility under the terms of the Approval. It does not verify that all pre-work requirements have been fulfilled.





APPENDIX B

Site Environmental Plan (SEP)

The following have been identified as the key environmental a	aspects for the site:	Site Envir	onmental Plan		
 Noise and vibration management 					
 Nearby sensitive noise receivers 		Project Na	ime: Junee to Illabo (J2I) Cle	arances Lo	ow Impact Works – Minor A
Areas of environmental concern (AEC)		Date and	Revision: 03/03/2025, Revisi	on C	
Management Contacts:		Dute and	(evision: 05/05/2025, (evisi	one	
1. Rail Superintendent (Peter Kerr) – M: 0427 635 176					
2. General Superintendent (Blair Matthews) – M: 0407 092 044					
3. Environmental Manager (Chris Standing) – M: 0431 338 578					
4. Environmental Advisor (Jack Mills) – M: 0491 638 479					
 Site CPSEC (Sarah Steel) – M: 0427 042 738 Stakeholder and Community Manager (Naomi Rowe) - M: 043 	19 6/3 625			and the second	LA BERTAN
Staging of Works:	19 043 025	and the second second			
Establishment of MAF		175 6		1	
Operation of MAF		1		18	
		T Participant and		and at	Mar 400 and a mar and
** If there is any environmental incident or event contact Martin	inus Environmental Team immediately**		A CAR AN AND AND	Cial Cial	
** All environmental complaints, queries or concerns to be notif	fied to the Environment Manaaer and Stakeholder and	A A BART	and the second s	Caroline 1	
Community Manager immediately – these shall be responded to		Ry Street	and the second	man -	
Associated Documents:	· · ·	San State	State of the barren	the second second	
MAF Assessment J2I Clearances Rev C		S Carlo a		St I A	
	Informing Residents:	1 Las Par	and the second s		A State of the state
 All onsite personnel are to be inducted and signed onto the requirements of this SEP prior to undertaking any 	 All sensitive receivers have been notified of upcoming works at least 5 days and no more than 14 days prior 	1 Belleville		TTA SIN	
the requirements of this SEP prior to undertaking any works on site.	works at least 5 days and no more than 14 days prior to the commencement of activities.	P Care R			
 A copy of this SEP to be available onsite at all times. 	to the commencement of activities.	1 march	AEC 4	7 - 21	
Inspections and Maintenance:		100mm		3	
• Environment and Sustainability routine site inspections.		and and			100
 No ongoing maintenance requirements. 					Contraction of the second seco
		the set	El a construction de la construc	State of the state	
Project's construction working hours (as per EPL)		and the second			
 7:00 am and 6:00 pm Monday to Friday; 8:00 am and 1:00 pm Saturday; and 		# 68 ····	St T T T T T T T T T T T T T T T T T T T	AF STR	GrainCorp Illabo
 not be undertaken on Sundays or Public Holidays. 		5 51	A DE CONTRACTOR	ana the second	
Traffic and Transport			ALLAND ZOFE	T. Der	
Traffic safety controls would be implemented under approv	ved Traffic Guidance Schemes (TGS) and where appropriate		the state of the s		
Road Occupancy Licences (ROLs) to minimise the risk of traf	ffic conflicts.	A AND A AND A		11	
Construction vehicles not used for the proposed works are t	to utilise the parking within the site compound to avoid	and a state		Charles and	
impacts on neighbouring streets.Formal written agreement from the landowner of GrainCorp	n Illaha would be obtained prior to property accord	1000	and the second		- yes and the
proceeding and to be managed as per the CCS (Appendix C		THE	anz		
Noise and Vibration		20	8	. al	
 Noise generating work in the vicinity of community, religiou 	us, educational institutions, noise and vibration-sensitive	20 - 10		10	
businesses and critical working areas (such as exam halls, th		and the second		10 m	at the state
noise levels above the NMLs will not be timetabled during s			468.9	State State	AND
 with the affected institutions can be made at no cost to the Training will be provided to all personnel on noise requirem 			A LA MARCAN	Contraction of the second	
to be used to inform personnel of the location and sensitivit			B. I market	a single the	Same and the second
The induction protocols must include awareness of noise get	, ,		4 8	A CAR	and the second second second
techniques that should be implemented.		659		ALL ST	
Training must be conducted for appropriate community behavior.				-	and the second
 All plant and equipment must be maintained in a proper and manner, and feature standard noise reduction measures where the standard noise red		10 10 10 10 10 10 10 10 10 10 10 10 10 1		10 an	
 Where possible, plant and equipment must be selected that 		Legend:			
covers, mufflers, shrouds and other noise suppression equip	•				
selected where available.				AEC	Areas of Environmental Concern
Where practicable, tonal reversing alarms (beepers) will be			A2P CIZ Rev3		
equipment in use (subject to occupational health and safety					
Noise generating equipment will be regularly checked and encoded and enco					Sensitive Receivers
 hatches/enclosures regularly to ensure that seals are in goo Noise monitoring spot checks of equipment will be complet 			Site Officer		
 Dropping materials from a height will be avoided. 	to ensure manual items are operating as expected.		Site Offices	_	
 Loading and unloading will be carried out away from noise s 	sensitive areas, where practicable.				Spill Kits
Alternative construction methods will be considered for wo	-		Toilots / First Aid / Congrator / Mater Tonk		
equipment, refer Section 6.0 of the CNVIS). Use of these me			Toilets/First Aid/Generator/Water Tank		
therefore the worst-case scenario is included for the purpos				0	Waste Bins
 Truck drivers will be instructed to avoid compression brakin Delivery vehicles should be fitted with strang rather than sh 			Car Park		
 Delivery vehicles should be fitted with straps rather than ch Truck movements will be kept to a minimum (i.e. trucks are 				^	
 Consultation with affected sensitive receivers will be undert 				\diamond	Access Points
				V	

Flora and Fauna
DOC NO - Site Environmental Plan – Junee to Illabo (J2I) Clearances Low Impact Works – Minor Ancillary Facility

MARTINUS

r Ancillary Facility





GrainCorp Illabo

- Training will be provided to all Project personnel, including relevant sub-contractors on biodiversity management practices and the requirements from this Plan 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 SEP (refer to Appendix B) will be developed for construction teams.
- The extent of clearing required for construction of infrastructure is to be surveyed and marked out on site.
- Construction workforce will be supplied with sensitive area maps (showing clearing boundaries and exclusion zones), including updates as required. (UMM BD7)
- Detailed design and construction planning will identify refinements that further avoid or minimise the need to further impact or disturb native vegetation, fauna habitat and riparian habitat. (UMM BD1)
- The Martinus Rail Environment, Sustainability and Approvals Manager (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 SEP
- Pre-clearance surveys will be carried out prior to construction by a suitability gualified ecologist. This would include but not be limited to:
- Inspections of artificial and natural structures that provide potential microbat habitat. If bats are identified roosting in these structures, individuals will be excluded from this habitat (meaning bats can exit the habitat unharmed during their nocturnal activity period but not re-enter);
- Pre-clearance disturbance survey including mapping of weeds and development of suitable controls to manage them:
- Verification that the area cleared is correct and within the boundary and GIS data provided to IRPL. (UMM BD5)
- At the completion of clearing, the Project ecologist will prepare a Post-Clearing Report.
- If any unexpected fauna finds are identified, the Unexpected Finds Procedure for Flora and Fauna (Appendix E) will be followed.
- 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 Finds Procedure for Flora and Fauna (Appendix E) will be implemented.
- Handling of fauna during the Project may be required if fauna is encountered during construction and is required 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 in Appendix F of the MAFA.

Soil and Water (Erosion and Sediment Controls)

- Training will be provided to all Project personnel, including relevant subcontractors on soil, water and contamination management and the requirements from this plan 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 accordance with the Acid Sulfate Soils Management Advisory Committee, 1998b) and the Waste Classification Guidelines Part 4: Acid Sulfate Soils (NSW EPA, 2014b).
- 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 (Appendix G) will be followed.
- Appropriate spill containment equipment (such as 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 Unexpected Finds Procedure for Contamination (Appendix H of the MAFA) will be followed should any unexpected contamination or asbestos (suspected contamination) be encountered or otherwise discovered.

Heritage

If at any time during the proposed MAF activities, any items of potential Aboriginal or non-Aboriginal heritage significance are discovered they would be managed in accordance with the Unexpected Finds Procedure for Heritage and Human Remains (Appendix I of the MAFA). Flooding and Bushfire

- Site personnel to monitor Bureau of Meteorology (BoM) weather forecasts on a regular (weekly) basis for significant rainfall events. In the event that a potential 5% AEP or greater flood event all feasible and reasonable fuels, chemicals, equipment and plant items to be removed from site or elevated above flood levels (0.3m)
- Emergency response and management will be undertaken in accordance with the Project's Flooding and Bushfire Emergency Management Plan (Appendix J).

Waste, Air Quality and Odour

- 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, 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.

Visual and Light Spill

- Locating areas of low visual amenity away from sensitive receivers.
- However, some light spill may occur from construction vehicle headlights and lighting associated with site offices
- Erecting boundary screening around compound.

Site Environmental Plan

Project Name: Junee to Illabo (J2I) Clearances Low Impacts Works – Minor Ancillary Facility

Date and Revision: 03/03/2025, Revision C

All personnel involved in the works to sign onto SEP prior to works commencing:

Position	Worker's name	Signature	Date









APPENDIX C

Community Communication Strategy (CCS)



Community Communication Strategy Albury to Illabo (A2I)

5-0000-210-PCS-00-ST-0001



Document Control

DOCUMENT TITLE	COMMUNITY COMMUNICATION STRATEGY – A2I
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QUALITY REVIEW	Alan Savage – Program Quality Advisor
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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	Makolm 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

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 CM 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. CAA Conditions of Approval set by the for Minister for Planning and Public Spaces The strategy Community Communication Strategy Constructor Any contractor engaged by IRPL to undertake works on the project (formerly the Department of Infrastructure, Transport, Regional Development, Communications, and the Arts (formerly the Department of Infrastructure, Transport, Regional Development, Communications) DPHI or "the DFRDCA INSW Department of Planning, Housing, and Infrastructure (formerly NSW Department of Planning and Environment and Communications is for Sympolical Development, Communications) DPHI or "the DPEAC At Environment Representative for the project FAAA At Environment Representative for the project	ACRONYM	DEFINITION
ACCAlbury City CouncilARTCAustralian Rail Track CorporationCALDCulturally and Linguistically DiverseCCCCommunication and Stakeholder Engagement Management PlanCSSICritical State Significant InfrastructureCMConsultation Manager – a cloud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Manager – alcoud-based knowledge sharing platform used for effective stakeholder engagement Consultation Knows project teams to capture interactions, tasks, and actions project contractorCoAConditions of Approval set by the for Minister for Planning and Public SpacesDTRDANp Contractor engaged by IRPL to undertake works on the project (formerfy the Department of Infrastructure, Transport, Regional D	A2I	Albury to Illabo
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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>.





- 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. Enhancements or modification works will be undertaken at locations to allow for safe clearance of doublestacked freight trains.
- Illabo to Stockinbingal Comprises 37km of new track and 2km of upgraded track. The route bypasses the winding section of track called the Bethungra Spiral.
- Stockinbingal to Parkes 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.
- Parkes to Narromine Comprises 98km of existing track and 5km of new track. It is the first section of Inland Rail to be completed and accommodates doublestacked trains.

Narromine to Narrabri Comprises 306km of new rail 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 Brisbane.

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

NSW/Qld Border to Gowrie Comprises of approximately 217km of new track. The section involves building approximately 149km of new track and upgrading approximately 68km of track from the NSW/Qld border, near Yelarbon, to Gowrie Junction, north-west of Toowoomba.

- Gowrie to Helidon 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.
- Helidon to Calvert
 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.
 - Calvert to Kagaru 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 1.1km of tunnelling, this section will connect Inland Rail with the existing Sydney to Brisbane Coastal Line.

inlandrail.com.au 1800 732 761

Figure 1: Beveridge to Kagaru projects



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.



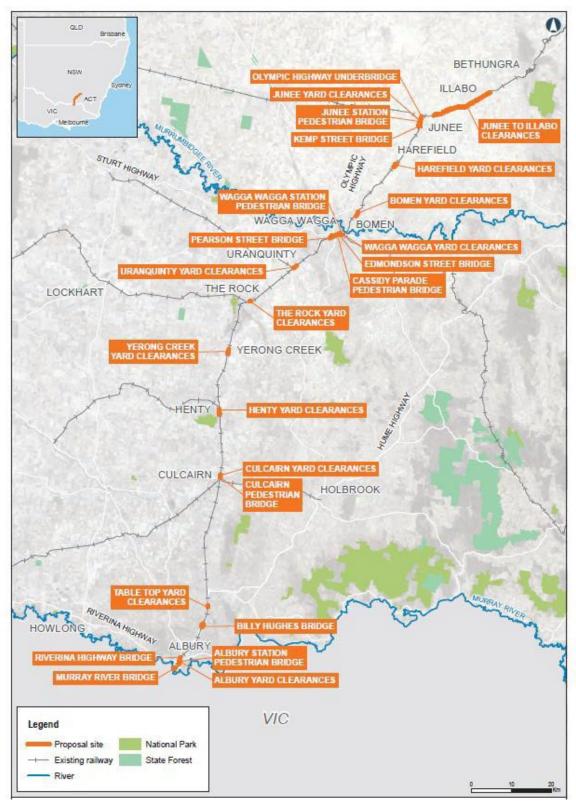


Figure 2: Albury to Illabo corridor



2.3 **Project timeline**

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:

[•]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 decision[•].

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
PUBLIC PARTICIPATION GOAL	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.
PROMISE TO 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 Contractor These responsibilities will 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



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 Contractor
	Junee Shire Council (JSC)	Consult/Involve	During design, construction, and post construction	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.

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: 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.
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.



7 Communication tools and engagement methods

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 communication tools and engagement methods outlined in Table 8: Communication tools and engagement methods. These tools present an opportunity to 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 engag	Planning our engagement							
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	unity up to date – notifications a	and communication	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.			



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



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



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.



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



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



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 o	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:



TOOL/ACTIVITY	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	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 (one on one and small group forums)	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.	Community and stakeholder groups, residents and businesses, any interested parties.	Preconstruction and construction Meeting with key stakeholders, nearby residents and businesses will proactively be offered for the duration of the project.	The frequency will be determined by the works being completed and the preferences to meet from the stakeholders/communi ty.	Meetings may be formal or informal depending on the purpose of the meeting. Meetings minutes will be recorded in Consultation Manager.
Stakeholder presentations/brie fings and forums	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.	Councils and agencies, local organisations, key stakeholder, community groups and any interested parties.	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.	As required.	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.



TOOL/ACTIVITY	DESCRIPTION	AUDIENCE	TIMING	FREQUENCY	SPECIFICATIONS		
Attendance at markets and events	Provide community with the opportunity to provide feedback, obtain project information and raise awareness of the project.	Community and stakeholder groups, any interested parties.	As required during construction.	As required.	Examples of local events include Farmers Markets and local annual shows.		
Community and business capability workshops	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.	Local businesses, stakeholder groups and any interest parties.	Preconstruction	As required.	Currently underway to build local businesses capability prior to works commencing.		
Feedback surveys	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.	Community and stakeholder groups, residents and businesses, any interested parties.	Construction Survey to be conducted six months into construction	Frequency to be assessed after first survey results.	Feedback surveys may also be used to understand community attitudes towards noise barriers or other noise mitigation measures.		
Education opportunities	Education campaign will be developed to increase community awareness around construction sites, this may include promoting safe travel through worksites/detours.	Community and stakeholder groups, residents and businesses, any interested parties.	Construction As required throughout the duration of the project.	As required.	Community education will include a variety of mediums to reach the community and may include social media, site signage and digital tools.		
Engaging with cult	Engaging with culturally and linguistically diverse and vulnerable communities						
LOTE, CALD and other vulnerable and marginalised groups and communities	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.	LOTE, CALD and vulnerable and marginalised communities.	Preconstruction and construction	As required.	 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 		



TOOL/ACTIVITY	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.

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 Councils ER DPHI (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) ER DPHI (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



E26Sloane's Froglet Management Plan DCCEEW Affected landowners DPHI (Approver)ConsultE32Fauna Connectivity Strategy BCS DPI Fisheries Planning Secretary (Approver)ConsultE43Flood Design Report RAP'sConsultE52The Albury Railway Station and Yard Group Report Heritage NSW, Planning Secretary (Approver)ConsultE53Heritage Interpretation Plan Heritage NSW Planning Secretary (Approver)ConsultE63Aboriginal Archaeological Test Slavage Excavation Methodology Heritage NSW Planning Secretary (Approver)ConsultE64Aboriginal Archaeological Cultural Planning Secretary (Approver)ConsultE64Aboriginal Cultural Report(s) RAP's Planning Secretary (Approver)Consult
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Station and Yard Group ReportPlanning Secretary (Approver)E55Heritage Interpretation Plan• Heritage NSW • Heritage Council of NSW • Relevant Councils • RAP'sConsultE63Aboriginal Archaeological Test Excavation Methodology• Heritage NSW • Relevant Councils • RAP'sConsultE63Aboriginal Archaeological Test Excavation Methodology• Heritage NSW • LALC • Planning Secretary (Approver)ConsultE63Aboriginal Archaeological Salvage Excavation Methodology• Heritage NSW • LALC • Planning Secretary (Approver)ConsultE64Aboriginal Cultural Heritage Excavation Methodology• RAPs • LALC • Planning Secretary (Approver)Consult
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Heritage Excavation
E66Unexpected Heritage Finds and human Remains Procedure• Heritage NSW • Heritage Council of NSW • Planning Secretary (Approver)Consult
E72 Out-of-Hours Work Protocol EPA • AA • Planning Secretary (Approver)
E78 CNVIS • Affected sensitive land users Consult
E89 Operational Noise and Vibration Review (ONVR) · Relevant Councils · Consult • EPA • Planning Secretary (approver)
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)	(signage, project updates and calling cards, etc.) and on the Inland Rail website	
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.	

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 COMPLAINTS		
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	Day of receipt	Receiver
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 COMPLAINTS		
		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.



COMMUNITY COMMUNICATION STRATEGY - A2I

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: C	able 13: Complaints escalation and mediation process		
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	

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APPENDIX D

Construction Noise and Vibration Statement (CNVIS)





₩SLR

A2I | Albury to Illabo – Junee to Illabo

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.: R16

5 February 2025

Revision: v1.1

Making Sustainability Happen

Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
v1.1	5 February 2025	Alex Bian	Steven Luzuriaga	A
v1.0	29 January 2025	Alex Bian	Steven Luzuriaga	A-

Basis of Report

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

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

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

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- Appendix D Receivers Triggering Additional Mitigation



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
ССНМР	Construction Cultural Heritage Management Plan
CEMP	Construction Environmental Management Plan
CNVF	Inland Rail NSW Construction Noise and Vibration Framework
CNVMP	Construction Noise and Vibration Management Plan
CSSI	Critical Stage Significant Infrastructure
DEC	Department of Environment and Conservation
DECC	Department of Environment and Climate Change (now NSW EPA)
DIN	Deutches Institut für Normung (German Institute for Standardisation)
EIS	Environmental Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	Environment Protection Authority
EPL	Environmental Protection Licence
ER	The Environmental Representative(s) for CSSI approved by the Planning Secretary.
HNA	Highly Noise Affected
Hz	Hertz
ICNG	Interim Construction Noise Guideline (DECC, 2009
IR	Inland Rail
ISO	International Standards Organisation
km	Kilometres
km/h	Kilometres per hour
LAeq	Equivalent continuous noise level, providing a representation of the cumulative level of noise exposure over a defined period.
LAeq(15hour)	The equivalent continuous noise level for the 15-hour daytime period of 7.00 am to 10.00 pm
LAeq(9hour)	The equivalent continuous noise for the 9-hour night-time period of 10.00 pm to 7.00 am

LAeq(1hour)	The equivalent continuous noise for the 1-hour daytime or night-time period that has the potential to result in the greatest noise impact to sensitive receivers.
LAmax	The maximum noise level during the measurement or assessment period. The LAFmax or Fast is averaged over 0.125 of a second and the LASmax or Slow is averaged over 1-second.
m	Metres
mm	Millimetres
mm/s	Millimetres per second
m/s	Metres per second
MR	Martinus Rail
NCA	Noise Catchment 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

 A1 The Proponent must carry out the CSSI in accordance with approval and generally in accordance with the: a) Inland Rail – Albury to Illabo Environmental Impact Sta August 2022) b) Albury to Illabo Response to Submissions (ARTC, Nov c) Albury to Illabo Preferred Infrastructure Report (ARTC, d) Albury to Illabo Preferred Infrastructure Report Respon (ARTC, February 2024) e) Inland Rail – Albury to Illabo (SSI-10055) Response to additional information – Air Quality Assessment (letter of f) Part 1 - Revised Technical Paper 8: Biodiversity Develor Assessment Report (WSP, February 2024) g) Part 2 - Revised Technical Paper 8: Biodiversity Develor Assessment Report (WSP, February 2024) A2 The CSSI must only be carried out in accordance with all provide the second second	tement (ARTC, ember 2023) November 2023) se to Submissions request for dated 1 May 2024) opment	
 a) Inland Rail – Albury to Illabo Environmental Impact Sta August 2022) b) Albury to Illabo Response to Submissions (ARTC, Nov c) Albury to Illabo Preferred Infrastructure Report (ARTC, d) Albury to Illabo Preferred Infrastructure Report Respon (ARTC, February 2024) e) Inland Rail – Albury to Illabo (SSI-10055) Response to additional information – Air Quality Assessment (letter of f) Part 1 - Revised Technical Paper 8: Biodiversity Develor Assessment Report (WSP, February 2024) g) Part 2 - Revised Technical Paper 8: Biodiversity Develor Assessment Report (WSP, February 2024) 	ember 2023) November 2023) se to Submissions request for dated 1 May 2024) opment	
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Assessment Report (WSP, February 2024) g) Part 2 - Revised Technical Paper 8: Biodiversity Develo Assessment Report (WSP, February 2024)	opment	
Assessment Report (WSP, February 2024)	-	
A2 The CSSI must only be carried out in accordance with all pr	ocedures,	
commitments, preventative actions, performance criteria an measures set out in the documents listed in Condition A1 u specified in, or required under, this approval.		The CNVMP
C9 The Construction Noise and Vibration Sub-plan must includ to:	e, but not limited	The CNVMP
 measures to reduce construction to standard ICNG houses are likely to be noise affected for m months; 		
b) an approach to assess and manage construction fatiguting impacts on sensitive receivers on an ongoing basis;	e from noise	
 c) noise sensitive periods identified by the community, rel educational institutions, noise and vibration-sensitive b critical working areas and measures to ensure noise le NMLs do not occur during sensitive periods in accorda E76; 	usinesses and vels above the	
 d) mitigation for construction traffic noise impacts from ad construction traffic and road diversions; 	ditional	
 e) the location of all heritage items, non-heritage structure infrastructure likely to be impacted by vibration and me vibration impacts at those items and structures; and 		
 f) vibration levels at a range of distances from vibration in equipment such as excavators and vibratory rollers bef works with the specific type and size of equipment. 		
E68 A detailed land use survey must be undertaken to confirm s use(s) (including critical working areas such as operating th precision laboratories) potentially exposed to construction n construction ground-borne noise and operational noise. The undertaken on a progressive basis but must be undertaken before the commencement of work which generates constru- operational noise, vibration or ground-borne noise in that ar the survey must be included in the Noise and Vibration CEN required by Condition C8.	eatres and oise and vibration, e survey may be in any one area uction or ea. The results of	The CNVMP, Section 3.0, Figure 1
 E69 Work must be undertaken during the following hours: a) 7:00am to 6:00pm Mondays to Fridays, inclusive; b) 7:00am to 6:00pm Saturdays; and 		Section 2.2
c) at no time on Sundays or public holidays.		



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



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



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



CoA	Requirement	Reference
	Note: The heritage specialist is to provide advice prior to installing equipment that may impact the heritage significance or structural integrity of the heritage listed structures.	
E83	All work undertaken for the delivery of the CSSI, including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided. This must include:	Section 8.0, Section 8.2
	a) rescheduling work to provide respite to impacted noise sensitive land use(s) so that the respite is achieved; or	
	b) the provision of alternative respite or mitigation to impacted noise sensitive land use(s); and	
	c) the provision of documentary evidence to the AA in support of any decision made in relation to respite or mitigation.	
	The consideration of respite must also include all other CSSI, SSI and SSD projects which may cause cumulative and/or consecutive impacts at receivers affected by the delivery of the CSSI.	
E119	The Proponent must coordinate Work with adjoining Inland Rail Projects, including any work to relocate or connect utilities, to minimise cumulative and consecutive noise and vibration impacts and maximise respite for affected sensitive land uses. Coordination and mitigation measures must be detailed in the Construction Noise and Vibration management Sub-plan required by Condition C9.	Section 8.0, Section 8.2, Section 9.0
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.	Section 6.1



1.0 Introduction

SLR Consulting Australia Pty Ltd (SLR) has been engaged by Martinus Rail (MR) to prepare a construction noise and vibration impact statement (CNVIS) for the work from Junee to Illabo in NSW. These sites form part of the Albury to Illabo (A2I) section of Inland Rail (the Project). The extent of the work area considered in this assessment ranges from approximately 3500m northeast of Junee township and ends approximately 3000m northeast of Illabo township, with works expected to occur through the prior mentioned township. The respective chainages (CH) are CH480 (western) and CH465 (eastern).

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 work associated with the Junee to Illabo 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 the work from Junee to Illabo enhancement sites located between CH480 (western) and CH465 (eastern) as outlined above.

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 work from Junee to Illabo. The work at these sites includes:

- Site Establishment / Demobilisation
- Compound Operation
- Track work
- Track Tamping
- Crossover Removal
- Drainage Work
- Level Crossing Work

Further details of work activities are outlined in **Section 5.1**. The work areas are surrounded by a combination of scattered rural residential receivers along Olympic Highway and various receivers within the Illabo township, ancillary buildings within the rail corridor and several



other sensitive receivers including a school and hotel. The Project location, work areas and surrounding receivers are shown in **Figure 1**, **Figure 2** and **Figure 3**.

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 Junee to Illabo utilities work.

The noise catchment areas (NCA) used are consistent with the NCAs described in the EIS and are shown in **Figure 1**, **Figure 2** and **Figure 3** with the receiver classifications and approximate noise monitoring location.

Sensitive land uses and receiver classifications within the project area were confirmed through a detailed land use survey was undertaken in August 2024. Results of the land use survey have been incorporated into the receiver classifications shown in **Figure 1**, **Figure 2** and **Figure 3**.

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 Junee to Illabo utilities work are summarised in **Table 1**.

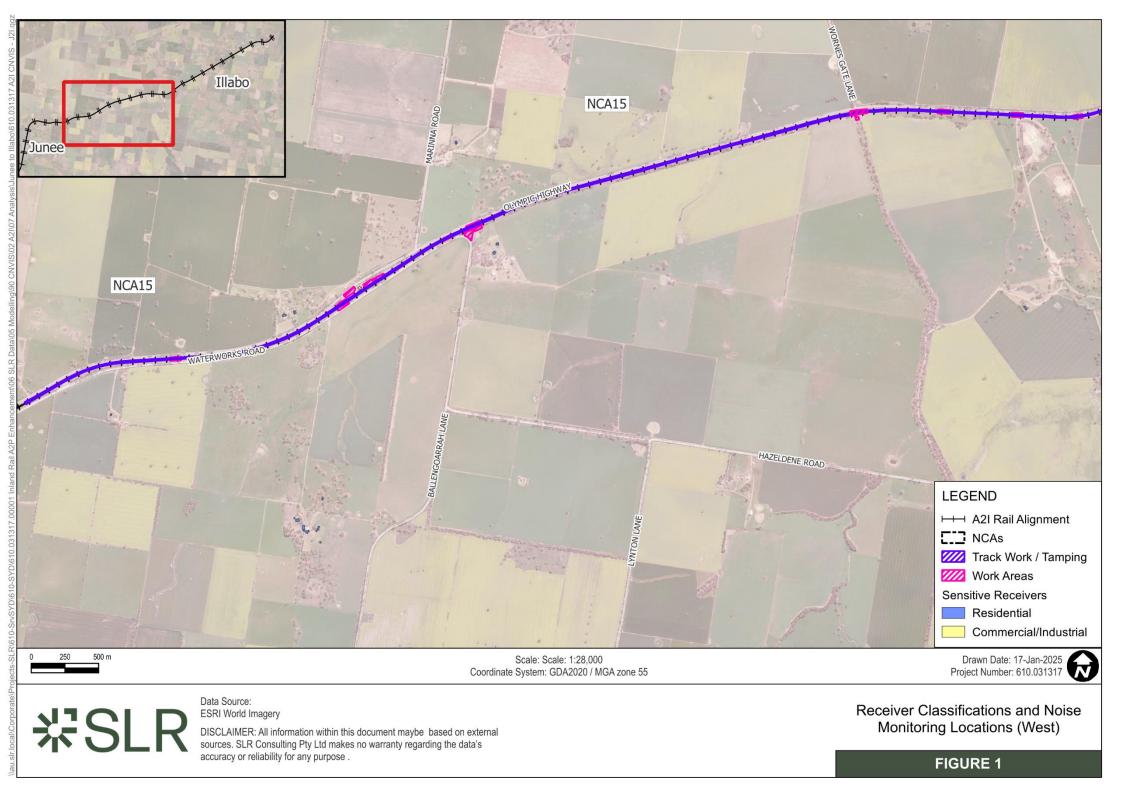
Noise Monitoring Location	NCA	Rating background Level (RBL) dBA NPfI defined time periods ¹		
Location		Daytime period	Evening period	Night-time period
15	15	41	41² (46)	33

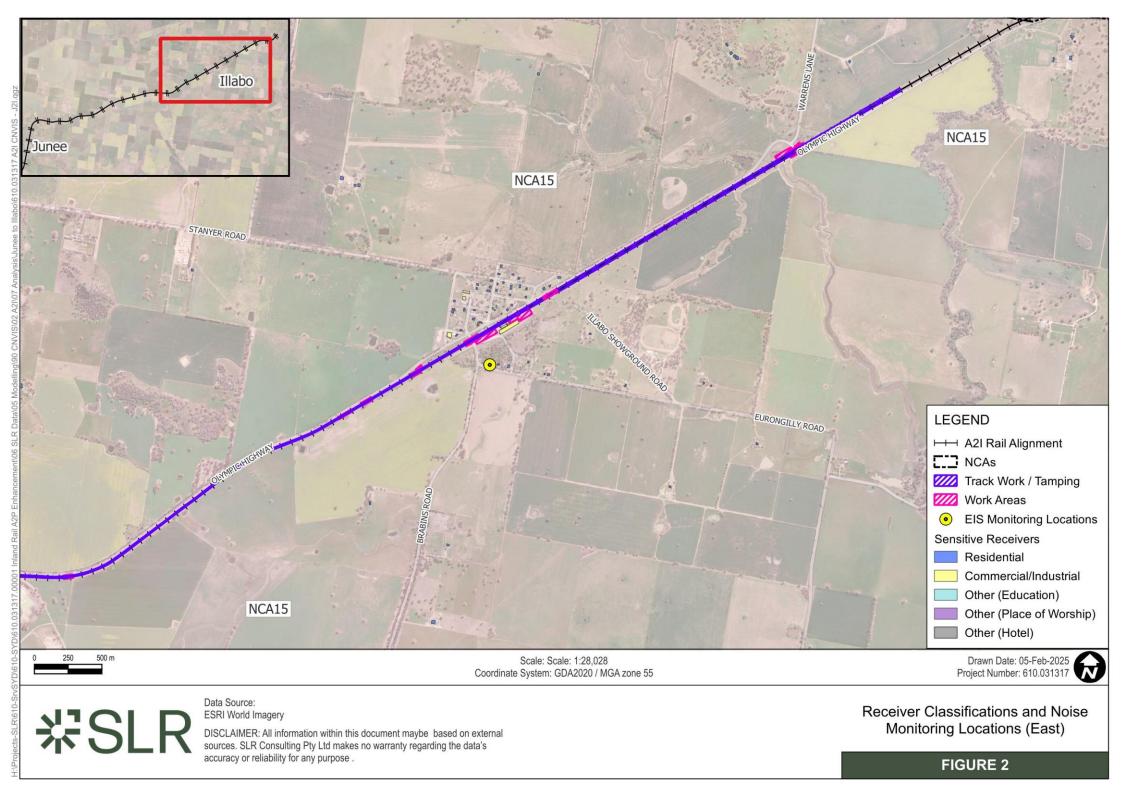
Table 1 Background Noise Levels

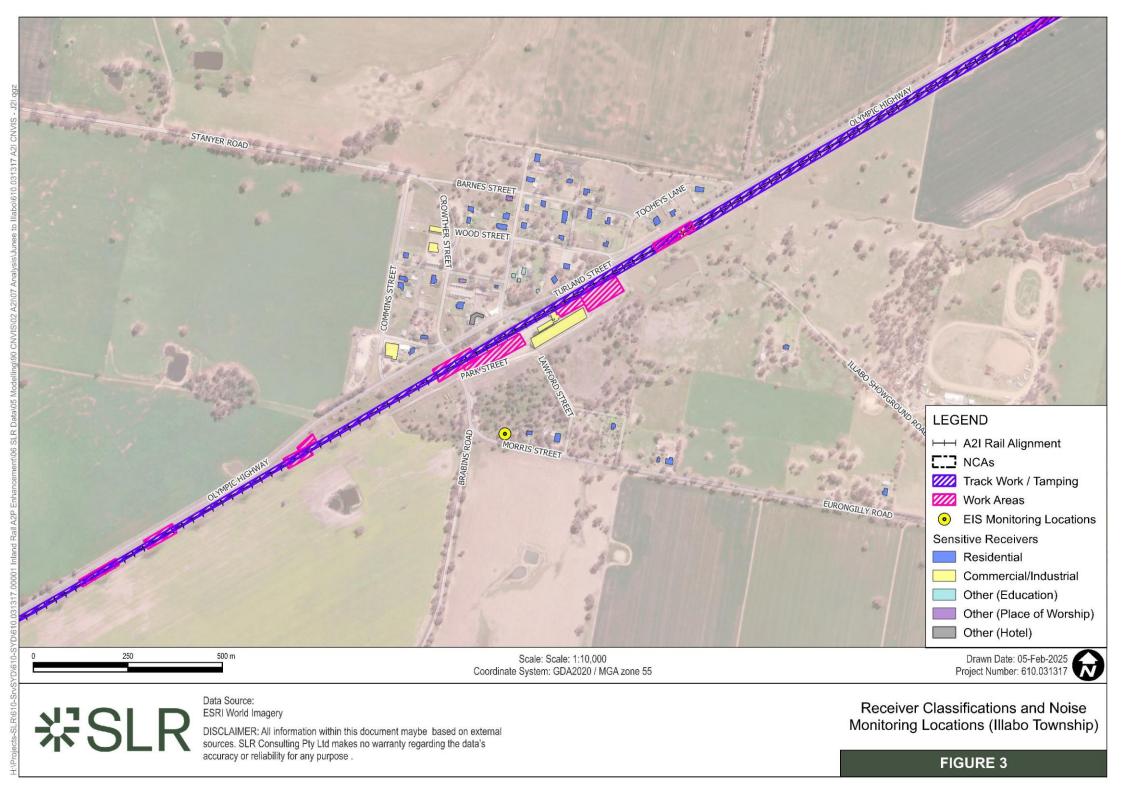
Note 1: The assessment periods are the daytime which is 7 am to 6 pm Monday to Saturday and 8 am to 6 pm on Sundays and public holidays, the evening which is 6 pm to 10 pm, and the night-time which is 10 pm to 7 am on Monday to Saturday and 10 pm to 8 am on Sunday and public holidays. See the NSW EPA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

Note 2: The evening RBL data has been reduced to the daytime period RBL in this case (bracketed figures indicates the measured value).









4.0 Assessment Criteria

4.1 Construction Noise and Vibration Guidelines

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

Table 2 Construction Noise and Vibration Standards and Guidelines

Guideline/Policy Name	Where Guideline Used
Inland Rail NSW Construction Noise and Vibration Framework (CNVF)	Assessment and management protocols for airborne noise, ground-borne noise and vibration impacts for construction of NSW Inland Rail projects
Interim Construction Noise Guideline (ICNG) (DECC, 2009)	Assessment of airborne noise impacts on sensitive receivers
<i>Environmental Criteria for Road Traffic Noise</i> (ECRTN) (EPA, 1999)	Contains guidance for assessing potential sleep disturbance impacts
Road Noise Policy (RNP) (DECCW, 2011)	Assessment of construction traffic impacts
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**, **Figure 2** and **Figure 3**.

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 NCA surrounding the work sites are shown in **Table 3**.



	NCA Noise Management Level (LAeq(15minute) - dB)					Sleep	Sleep
		Approved Hours	Out of Hours ¹			disturbance Screening	Awakening Reaction
		(RBL +10dB)	Daytime (RBL +5dB)	Evening (RBL +5dB)	Night-time (RBL +5dB)	Level (RBL +15dB or 52 dB)	Level
	NCA15	51	46	46	38	52	65

Table 3 Residential Noise Management Levels

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

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

Highly Noise Affected

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

Sleep Disturbance

Where the sleep disturbance screening level (RBL + 15 dB or 52 dB, whichever is greater, see **Table 3**) is exceeded, further assessment is required to determine whether the 'awakening reaction' level of LAmax 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 4NMLs for 'Other Sensitive' Receivers

Land Use	LAeq(15ı Applied whe)	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			
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			
Commercial	-	70			



Land Use	LAeq(Applied wl	nagement Level ^{15minute)} (dB) nen the property is in use)		
	Internal	External		
Industrial	-	75		
Non-ICNG 'Other Sensitive' Receivers				
Hotel – daytime & evening ³	50	60 ¹		
Hotel – night-time ³	35	45 ¹		
Child care centres – activity areas ⁴	40	50 ^{1,5}		
Child care centres – sleeping areas ⁴	35	45 ¹		
Library ³	45	55 ¹		
Public Building ³	50	60 ¹		
Aged Care	Considered a	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) – dB)			
	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	Maximum values	
	period	z-axis	x- and y- axis	z-axis	x- and y- axis	
Continuous vibration						
Residential	Daytime	0.010	0.0071	0.020	0.014	
	Night-time	0.007	0.005	0.014	0.010	
Offices, schools, educational institutions and places of worship	Day or night-time	0.020	0.014	0.040	0.028	
Workshops	Day or night-time	0.04	0.029	0.080	0.058	
Impulsive vibration						
Residential	Daytime	0.30	0.21	0.60	0.42	
	Night-time	0.10	0.071	0.20	0.14	
Offices, schools, educational institutions and places of worship	Day or night-time	0.64	0.46	1.28	0.92	
Workshops	Day or night-time	0.64	0.46	1.28	0.92	

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

Group	Type of Building	Peak Component Particle Velocity in Frequency Range of Predominant Pulse4 Hz to 15 Hz15 Hz and Above		
1	Reinforced or framed structures. Industrial and heavy commercial buildings	50 mm/s at 4 Hz and above		
2	Unreinforced or light framed structures. Residential or light commercial type buildings	15 mm/s at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz increasing to 50 mm/s at 40 Hz and above	

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

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

Group	Type of Structure	Guideline Values Vibration Velocity (mm/s)				
			Foundation, All Directions at a Frequency of		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



Group	Type of Structure	Guideline Values Vibration Velocity (mm/s)							
			ion, 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			
2	Residential buildings and buildings of similar design and/or occupancy	5	5 to 15	15 to 20	15	20			
3	Structures that, because of their particular sensitivity to vibration, cannot be classified as Group 1 or 2 <u>and</u> are of great intrinsic value (eg heritage listed buildings)	3	3 to 8	8 to 10	8	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

No heritage buildings or structures have been identified around the work sites associated with this CNVIS. Therefore, no additional consideration or assessment has been undertaken in relation to heritage buildings or structures.

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 10**.

Table 10	Guideline	Values for S	Short Term	Vibration or	n Buried Pipework
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Line	Pipe Material	Guideline value at the Pipe ^{1,2} (PPV mm/s)
1	Steel (including welded pipes)	100
2	Clay, concrete, reinforced concrete, pre stressed concrete, metal (with or without flange)	80
3	Masonry, plastic ³	50

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

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

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



Buried Pipework and Utilities

No buried pipework or utilities have been identified in this CNVIS at risk of impact from vibration. Therefore, no additional consideration or assessment has been undertaken in relation to buried pipework and utilities.

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 11**. 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

Plant Item	Rating/Description	Minimum Distance							
		Co	Cosmetic Damage						
		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				

Table 11 Recommended Minimum Working Distances from Vibration Intensive Equipment



Plant Item	Rating/Description							
		Co	Cosmetic Damage					
		Residential and Light Commercial (BS 7385)	and Light Items ¹ and Heavy Commercial (DIN 4150, Group Commercial					
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 12**.

Table 12	RNP/NCG Cr	iteria for Assessing	Traffic on Public Roads
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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)		

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 13**.



A summary of each construction scenario and the indicative work periods required are shown in **Table 14**, as per the working hours defined in the CNVMP.

The locations of the various work scenarios are shown in Figure 4 and Figure 5.

ID	Scenario	Description	Total Lw
W.001	Site Establishment / Demobilisation	Site Compound delivery and set up Laydown and haul road construction	112
W.002	Compound Operation	Operation of the site compound Delivery of materials/equipment	109
W.003	Track Work - Peak	Track work including highly noise intensive work	119
W.004	Track Work - Typical	Track work including highly noise intensive work	114
W.005	Track Tamping	Track tamping work following track work	116
W.006	Crossover Removal	Remove crossover	114
W.007	Drainage Work	Drainage Work	112
W.008	Signalling Work	Installation of signalling infrastructure	104
W.009	Level Crossing Work - Peak	Level crossing work including highly noise intensive work	116
W.010	Level Crossing Work - Typical	Level crossing work including highly noise intensive work	112

 Table 13
 Work Scenario Descriptions

Table 14 Scenarios and Periods of Work

ID	Scenario		Hours o	Indicative	Likely			
		Approved	Out-	of-Hours Wo	ork ⁴	Start Date	Duration	
		Hours	Day OOH¹	Evening ² Night ³				
W.001	Site Establishment / Demobilisation	✓	~	-	-	May-25	3 months	
W.002	Compound Operation	~	~	-	-	May-25	Ongoing	
W.003	Track Work - Peak	✓	✓	✓	✓	Sep-25	5 months	
W.004	Track Work - Typical	✓	✓	✓	✓	Sep-25	5 months	
W.005	Track Tamping	✓	✓	✓	✓	Sep-25	5 months	
W.006	Crossover Removal	✓	✓	✓	✓	Jul-25	12 months	
W.007	Drainage Work	✓	✓	✓	✓	Aug-25	11 months	
W.008	Signalling Work	✓	✓	✓	✓	Aug-25	6 months	
W.009	Level Crossing Work - Peak	✓	~	✓	✓	Sep-25	11 months	
W.010	Level Crossing Work - Typical	\checkmark	✓	\checkmark	✓	Sep-25	11 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 4 Construction Work Locations (West)

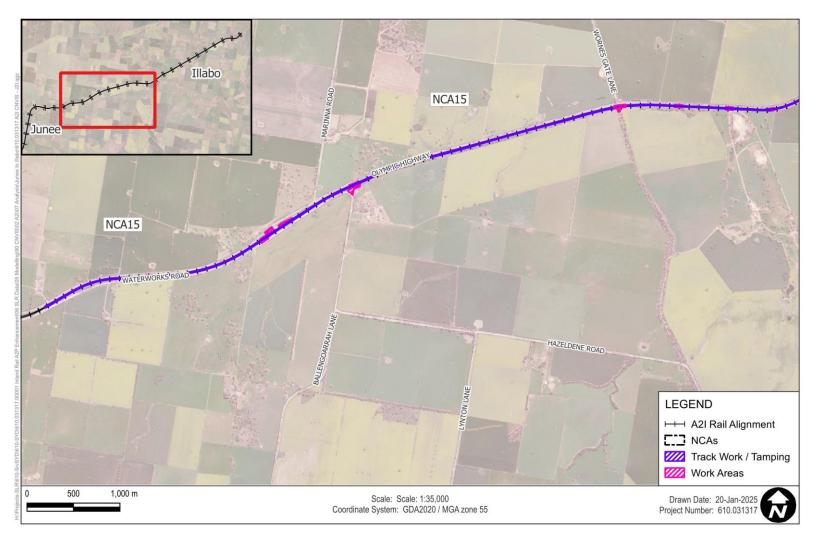
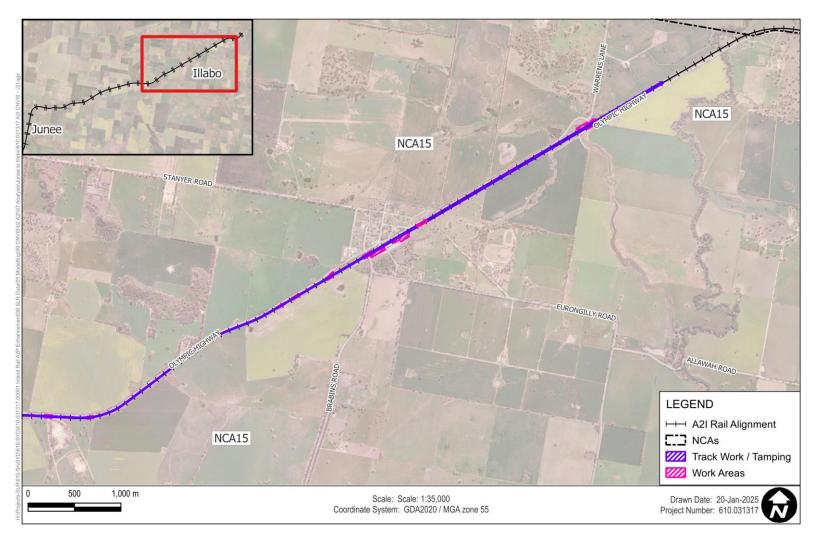


Figure 5 Construction Work Locations (East)



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 predicted noise levels are only applied to receivers while they are in use, further consultation with community maybe required in the future to confirm the non-residential receiver operation time.

The assessment shows the predicted 'mitigated' impacts based on the exceedance of the noise management levels, as per the categories in **Table 15**. The mitigation and management measures adopted for this CNVIS are provided in **Section 8.0**.

Subjective	Exceedance of Nois	Impact Colouring	
Classification	Daytime	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 15 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 16**. 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 16** 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 14** represent a window of time where the scenarios could occur, and does not represent the entire duration of the exceedances shown in **Table 16**. In reality, there would frequently be periods when construction noise levels are much lower than the worst-case levels predicted as well as times when no equipment is in use and no noise impacts occur.

Table 16 Overview of NML Exceedances

										Number o	of Receivers	s							
										With	NML excee	edance ²							
			Approved Hours Out of Hours																
ID	Scenario	HNA ¹	Daytime			Daytime OOH				Evening		Night-time				Sleep Disturbance	Sleep Awakening		
			1-10 dB	11-20 dB	>20 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	1-5 dB	6-15 dB	16-25 dB	>25 dB	>Screening Level	>65 dB
Residen	ntial Receivers																		
W.001	Site Establishment / Demobilisation	-	17	1	-	14	17	1	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	-	9	-	-	16	9	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Track Work - Peak	-	25	12	3	2	25	12	3	2	25	12	3	12	9	24	12	44	22
W.004	Track Work - Typical	-	23	7	-	10	23	7	-	10	23	7	-	3	20	15	7	40	11
W.005	Track Tamping	-	24	10	-	8	24	10	-	8	24	10	-	4	12	23	7	42	15
W.006	Crossover Removal	-	8	2	-	5	8	2	-	5	8	2	-	9	18	4	2	31	6
W.007	Drainage Work	-	2	-	-	-	2	-	-	-	2	-	-	9	2	1	-	2	-
W.008	Signalling Work	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
W.009	Level Crossing Work - Peak	-	9	3	-	11	9	3	-	11	9	3	-	6	25	6	1	34	5
W.010	Level Crossing Work - Typical	-	4	1	-	7	4	1	-	7	4	1	-	12	18	4	-	22	3
Other Se	ensitive Receivers																		
W.001	Site Establishment / Demobilisation	n/a	5	-	-	4	1	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.002	Compound Operation	n/a	1	-	-	1	-	-	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
W.003	Track Work - Peak	n/a	4	5	-	2	6	1	-	2	1	-	-	-	-	-	1	n/a	n/a
W.004	Track Work - Typical	n/a	7	1	-	3	5	-	-	1	1	-	-	-	-	1	-	n/a	n/a
W.005	Track Tamping	n/a	6	2	-	2	6	-	-	1	1	-	-	-	-	1	-	n/a	n/a
W.006	Crossover Removal	n/a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n/a	n/a
W.007	Drainage Work	n/a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n/a	n/a
W.008	Signalling Work	n/a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n/a	n/a
W.009	Level Crossing Work - Peak	n/a	1	-	-	-	1	-	-	-	1	-	-	-	-	1	-	n/a	n/a
W.010	Level Crossing Work - Typical	n/a	1	-	-	1	-	-	-	1	-	-	-	-	-	1	-	n/a	n/a

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

Note 2: Based on worst-case predicted noise levels

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

Residential Receivers

- 'Clearly Audible' noise impacts are predicted at the closest residential receivers for all scenarios (except *W.008*) during the approved daytime hours, and for all scenarios (except *W.008*) occurring during all three out-of-hours periods.
- 'Moderately intrusive' noise impacts are predicted at the closest residential receivers to the works for all scenarios (except *W.002*, *W.007*, and *W.008*) during approved daytime hours and during the daytime out-of-hours periods, and for scenarios from *W.003* to *W.006*, *W.009* and *W.010* during the evening, for all scenarios (except *W.001*, *W.002*, and *W.008*) during the night-time out-of-hours periods.
- 'Highly intrusive' noise impacts are predicted at the closest residential receivers to the works for scenario *W.003* during approved daytime approved hours, daytime out-of-hours and evening out-of-hours. 'Highly intrusive' noise impacts are also predicted for scenarios from W.003 to W.006 and W.009 during night-time out-of-hours. These activities will be conducted during track possessions and staged progressively along the alignment, rather than simultaneously. Detailed information, including the duration and specific timing of out-of-hours work (OOHW), will be provided in the corresponding OOHW permit.
- Noise levels are predicted to exceed the sleep disturbance screening level for all work scenarios (except *W.001, W.002 and W.008*) occurring during the night-time period.
- Noise levels are predicted to exceed the 'sleep awakening' criteria for for all work scenarios (except *W.001, W.*002, *W.007* and *W.008*) occurring during the night-time period.
- 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**.

Other Sensitive Receivers

- 'Clearly Audible' noise impacts are predicted at the closest 'other sensitive' receivers for all scenarios (except *W.006*, *W.007* and *W.008*) during the approved daytime hours, for scenarios *W.001*, *W.003* to *W.005* and *W.009* during daytime out-of-hours period, for scenarios *W.003* to *W.005* and *W.009* during evening out-of-hours period.
- 'Moderately intrusive' noise impacts are predicted at the closest 'other sensitive' receivers for *W.003* to *W.005* during the approved daytime hours, for *W.003* during the daytime out-of-hours period, and for *W.004*, *W.005*, *W.009* and *W.010* during the nigh-time out-of-hours period.
- 'Highly intrusive' noise impacts are predicted at the closest 'other sensitive' receiver for scenario *W.003* during the night-time out-of-hours period.
- It is noted that other sensitive receivers should only be considered impacted 'when in use'.



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. The receivers which would potentially be affected by sleep awakening impacts are generally the same receivers where 'moderately intrusive' and 'highly intrusive' nighttime 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 to **Section 8.3**. Furthermore, for scenarios where 'highly intrusive' impacts are predicted (ie *W.003*, *W.004*, *W.005*, *W.006* and *W.009*), noisy activities will be scheduled during standard daytime hours, where feasible, to minimise disruption during OOHW periods. It is noted however, that this work will occur during a rail possession and will be undertaken within the limitations of the possession. All appropriate feasible and reasonable construction noise mitigation measures will be applied to work as outlined in **Section 8.0**.

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 vibratory roller and ballast tamper. These items of equipment are required during the work as shown in **Table 17**.

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 17**.

ID	Scenario	Rating/Description	Minimum Distance							
			Cos	Cosmetic Damage						
			Residential and Light Commercia I (BS 7385)	Heritage Items (DIN 4150, Group 3)	Industrial and Heavy Commer cial (BS 7385)	Response (NSW EPA Guideline)				
W.001	Site Establishment \Demobilisation	Vibratory Roller <50 kN (1-2 tonne)	5 m	11 m	3 m	15 m to 20 m				
		Vibratory Roller >300 kN (>18 tonne)	25 m	50 m	12 m	100 m				
W.005	Track Tamping	Ballast Tamping	5 m	10 m	3 m	30 m				
W.009	Level Crossing Work - Peak	Vibratory Roller <50 kN (1-2 tonne)	5 m	11 m	3 m	15 m to 20 m				
		Vibratory Roller >300 kN (>18 tonne)	25 m	50 m	12 m	100 m				

 Table 17
 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 11** and the assessment is summarised in **Figure 6** to **Figure 15**). 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 17**, a vibration impact assessment must be conducted prior to the commencement of work.



Figure 6 Vibratory Roller <50 kN -Minimum Working Distances (W.001 West)







Figure 8 Vibratory Roller <50 kN -Minimum Working Distances (W.001 East)

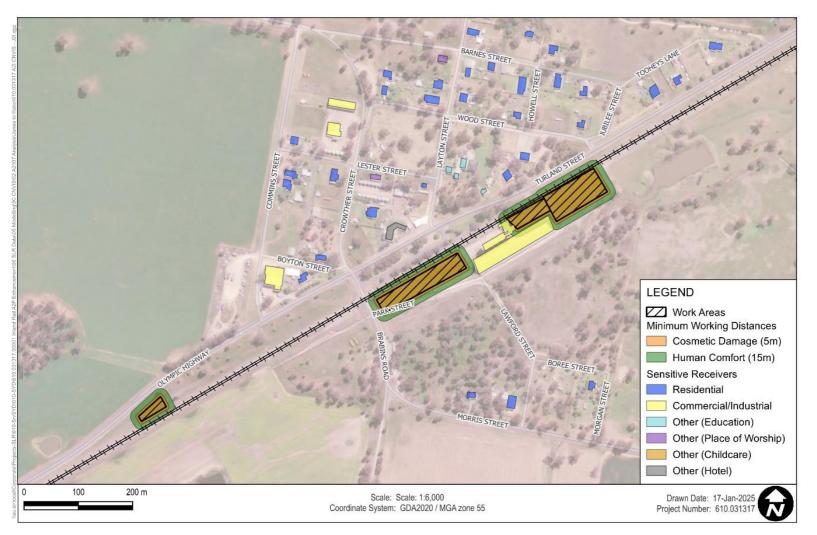
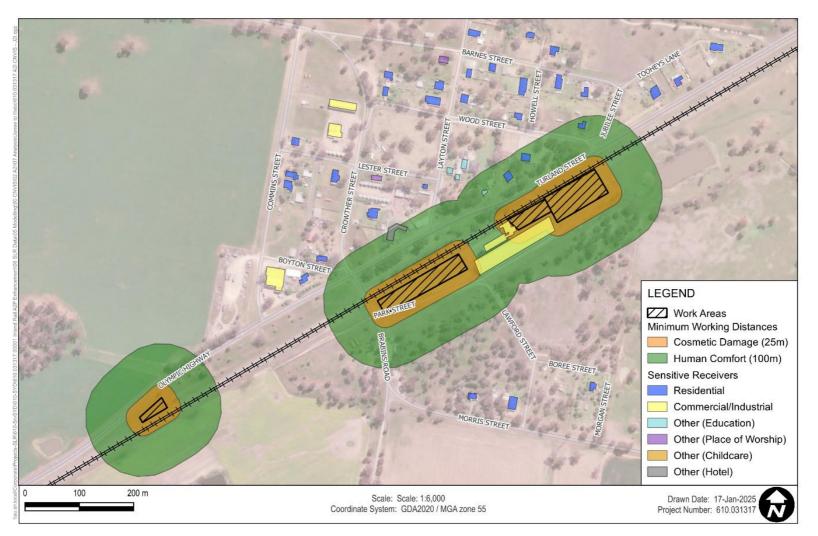


Figure 9 Vibratory Roller >300 kN -Minimum Working Distances (W.001 East)



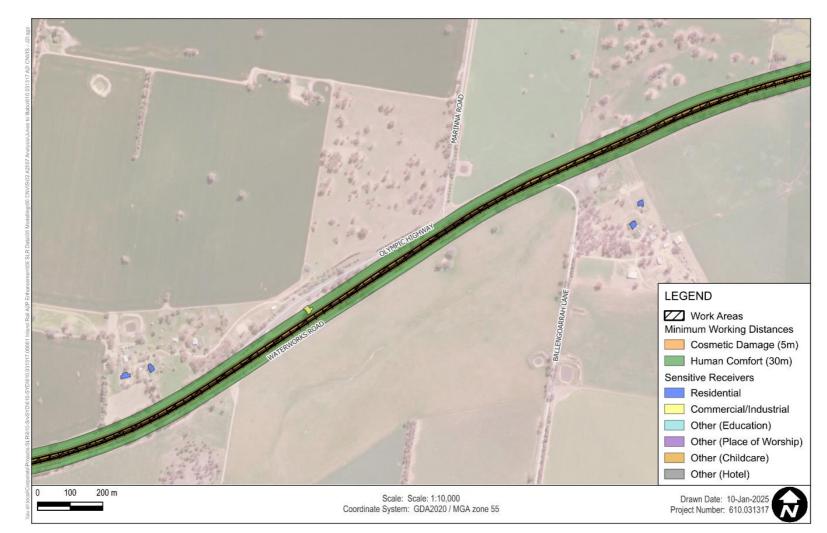


Figure 10 Ballast tamping - Minimum Working Distances W.005 (West)

Figure 11 Balllast tamping - Minimum Working Distances W.005 (East)

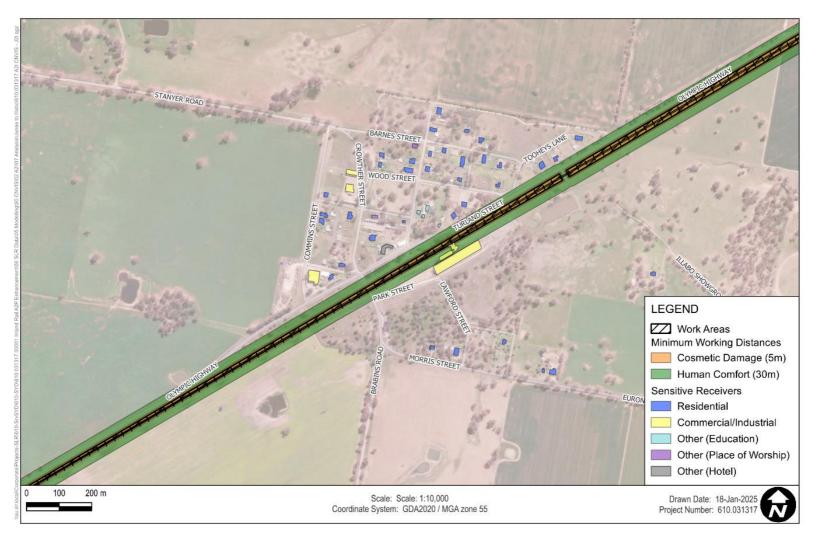
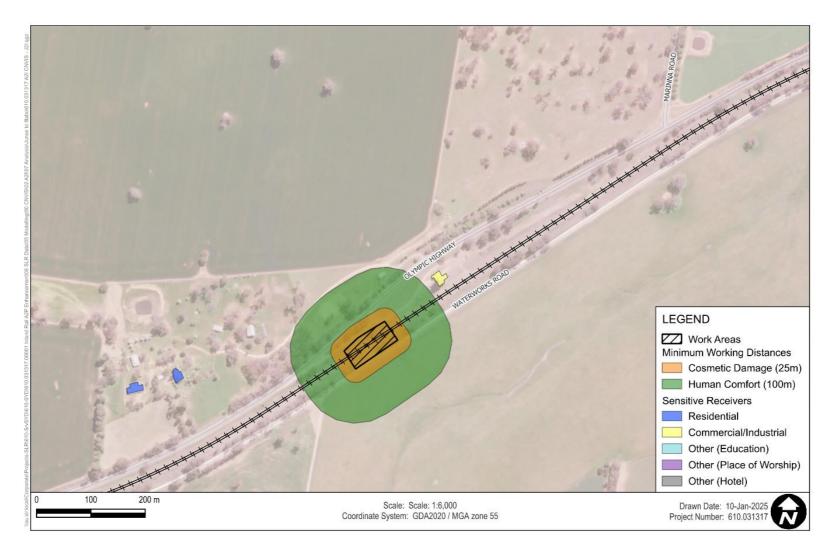


Figure 12 Vibratory Roller <50 kN -Minimum Working Distances (W.009 West)



Figure 13 Vibratory Roller >300 kN -Minimum Working Distances (W.009 West)



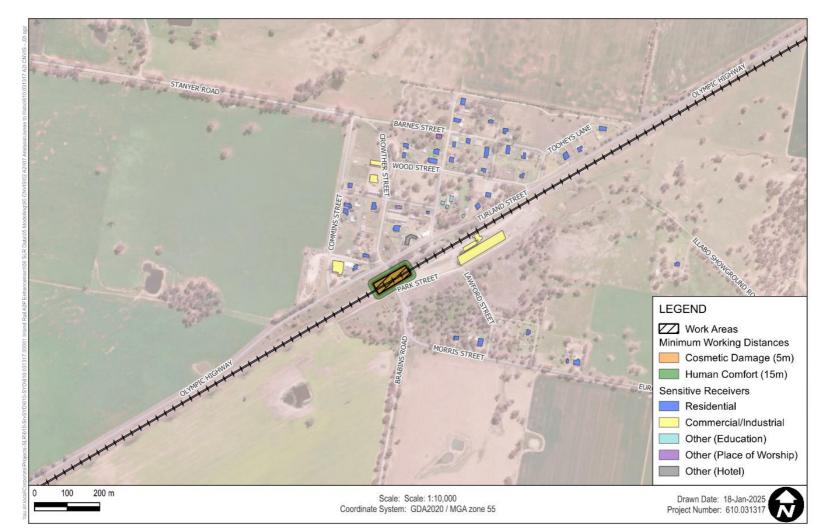
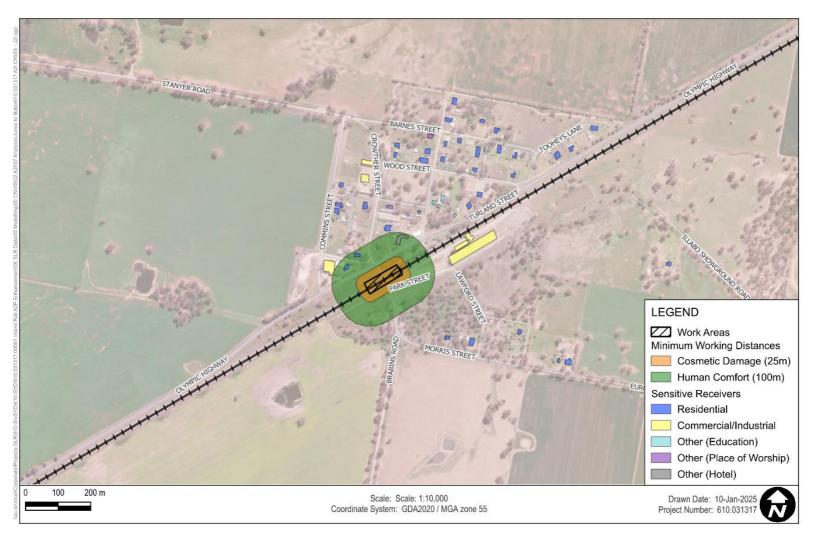


Figure 14 Vibratory Roller <50 kN -Minimum Working Distances (W.009 East)



Figure 15 Vibratory Roller >300 kN -Minimum Working Distances (W.009 East)



6.1 Cosmetic Damage Assessment

Figure 6 to **Figure 15** show that some commercial buildings within the railway corridor have the potential to fall within the cosmetic damage minimum working distance.

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 large vibratory roller) are required for:

- One structure within the Rail Corridor at Wantiool
- Two structures within the Rail Corridor at Illabo 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 8.0**.

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.

6.2 Human Comfort Assessment

It has been determined that receivers within close proximity to the work areas have the potential to fall within the human comfort minimum working distances and occupants of these buildings may be able to perceive vibration impacts at times when vibratory rollers 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.

Figure 7 (*W*.001) identifies one structure located in the Rail Corridor at Wantiool with the potential to fall within the human comfort minimum working distance, however **Figure 6** (*W*.001) shows that with the use of the small vibratory roller, all receivers are outside the human comfort minimum working distance.

Figure 9 (*W.001*) identifies the following receivers with the potential to fall within the human comfort minimum working distance:

- 36 Turland St, Illabo (residential)
- 21 Wood St, Illabo (residential)
- 81 Wood St, Illabo (residential)
- Illabo Public School (other educational)
- Illabo Hotel (other hotel)
- Two structures in the Rail Corridor at Illabo Yard

It is noted that **Figure 8** shows that with the use of the small vibratory roller, the impacts identified above in **Figure 9** would be limited to the Two structures in the Rail Corridor at Illabo Yard.

Figure 10 (*W.005*) identifies one structure located in the Rail Corridor at Wantiool with the potential to fall within the human comfort minimum working distance.

Figure 11 (*W.005*) identifies one structure located in the Rail Corridor at Illabo Yard with the potential to fall within the human comfort minimum working distance.

It is noted that for scenario *W.005*, the commercial structures and residences have been previously exposed to track tamping activities during standard periodic maintenance of the track.

Figure 12 and Figure 13 (*W.009*) do not identify any receivers within the human comfort minimum working distances.

Figure 15 (*W.009*) identifies the following receivers with the potential to fall within the human comfort minimum working distance:

- 2-4 Turland St, Illabo (residential)
- 2 Crowther St, Illabo (residential)
- Illabo Hotel (other hotel)

However, **Figure 14** (*W.009*) shows that with the use of the small vibratory roller, all receivers are outside the human comfort minimum working distance.

Based on the assessment above, the smaller, less vibration intensive vibratory roller 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 8.0**.

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 18**.



Traffic Route	Road Type	Traff (Both D	Construction ic Noise Directions) (Period)	Exceed base criterion?	Potential Increase	Potential Noise		
	Existing Existing + Proposed		Day ¹ (7am – 10pm)	> 2dB	Impact			
Junee to Illabo Clear	Junee to Illabo Clearances							
Olympic Highway	Arterial	54.3	58.1	No	Yes	No		
Brabins Road	Local	34.2	49.7	No	Yes	No		
Waterworks Road	Local	42.5	50.2	No	Yes	No		
Marinna Station Cross Road	Local	34.2	49.7	No	Yes	No		

Table 18 Construction Traffic Assessment

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

The EIS found that construction traffic associated with the Junee to Illabo work stages on public roads complies with the road traffic noise goals.

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.

Traffic diversions are not proposed for the work assessed in this CNVIS. Extended traffic diversions are not expected for these works, and any necessary diversions will be confined to daytime hours. Should night-time diversions be required for construction activities, a more detailed assessment will be undertaken and provided.

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

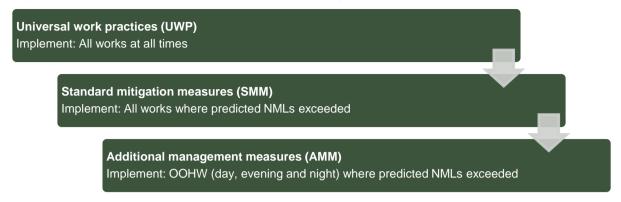
8.0 Mitigation and Management Measures

Noise from the Project may be apparent at the nearest receivers at certain times during the construction of the Project. 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 16**.

Figure 16 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 19 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 19	Site Specific Mitiga	tion Measures
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Measure	Reference / Notes
Project Planning	
Use quieter and less vibration emitting construction methods where feasible and reasonable.	Best practice
Works will be completed during the approved daytime construction hours where possible, as outlined in Section 2.2. Some unavoidable OOHW will be required due to road and rail traffic management restrictions, as outlined in Section 2.3 .	Best practice CoA E69 CoA E71
Where OOHW is required, an OOHW Permit will be prepared, as required by the OOHW Protocol or EPL. Further detail around the specific work tasks, duration and justification of OOHW must be identified in the OOHW permit.	Best practice CoA E71 CoA E72 CoA E73
Scheduling	
 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. 	Best practice CoA E70
Refer Section 8.2.	

Measure	Reference / Notes
Noise generating work in the vicinity of community, religious, educational institutions, noise and vibration-sensitive businesses and critical working areas (such as exam halls, theatres, laboratories and operating theatres) resulting in noise levels above the NMLs will not be timetabled during sensitive periods, unless other reasonable arrangements with the affected institutions can be made at no cost to the affected institution.	Best practice CoA E76
Refer to Community Consultation in Section 8.5.	-
All work undertaken for the delivery of the project including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided.	Best practice, CoA E83
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.	
Where practicable, work compounds, parking areas, and equipment and material stockpiles would be positioned away from noise-sensitive locations and take advantage of existing screening from local topography.	
Where practicable, equipment that is noisy would be started away from sensitive receivers	
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
Where possible, plant and equipment must be selected that can be fitted 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.	
These considerations have been included in noise modelling based on the equipment sound power levels, refer Appendix B.	
Where practicable, tonal reversing alarms (beepers) will be replaced with non-tonal alarms (squawkers) on all equipment in use (subject to occupational health and safety requirements).	
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	

Measure	Reference / Notes
Dropping materials from a height will be avoided.	
Loading and unloading will be carried out away from noise sensitive areas, where practicable.	
Alternative construction methods will be considered for work scenarios involving a vibratory roller (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	
Where possible, 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.	
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.	Best practice CoA E79
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.	
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



Measure	Reference / Notes
Noise and vibration monitoring will be undertaken in accordance with the CNVMP and Monitoring Program.	CoA E80 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 will be investigated and implemented, where feasible (refer Table 11). 	
• 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 vibratory rollers 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; and	
c) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one hour.	
Refer to Section 8.2.	
Where works are required within the cosmetic damage minimum working distances, building condition surveys will be completed before and after the works to ensure no cosmetic damage has occurred.	Best practice CoA E120 CoA E121
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 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:

- W.001 Site Establishment / Demobilisation
- W.003 Track Work Peak
- W.005 Track Tamping
- W.006 Crossover Removal
- W.009 Level Crossing Work Peak

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

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

8.3 Additional Mitigation and Management Measures for Out of Hours Work

Where the 'mitigated' construction noise levels remain above the NMLs, the Additional Mitigation Measures Matrix (AMMM) adapted from in the CNVF and CNVMP is to be

implemented. The approach, guided by the AMMM, is primarily aimed at pro-active engagement with affected sensitive receptors rather than additional noise reducing mitigation. OOHW has been divided into three periods (Day, Evening and Night) as adapted from the CNVF around the approved project hours (CoA E69).

Additional mitigation measures described in the CNVF and CNVMP are listed in **Table 20**. The additional mitigation measures for airborne noise are shown in **Table 21**. The additional mitigation measures for construction vibration are shown in **Table 22**.

Table 20	Additional Mitigation Measures
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Mitigation/Management Measure	Abbreviation
Communication (Category 1)	CO1
Communication (Category 2)	CO2
Respite Offer ¹	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

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

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

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



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

Table 21 Airborne Noise – Additional Mitigation Measures Matrix

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

Table 22 Vibration – Additional Mitigation Measures Matrix

Time 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

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

8.3.1 Receivers Eligible for Additional Mitigation Measures - Noise

The receivers eligible for additional mitigation and management measures due to construction noise from the project work are presented in **Appendix C** and **Appendix D**. Where work occurs for greater than two consecutive evening or nights, receivers may be eligible for respite offers (RO), agreements with owners (AO) or alternative accommodation (AltA) depending on the exceedance level and works period as detailed in **Table 21**.

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**.

OOHW scenarios *W.003, W.004, W.005, W.006* 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 must be provided to affected sensitive receivers as detailed in **Table 21**. 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

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 22**) 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. 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 96 of which were located around the Junee to Illabo work sites. 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.

For the Junee to Illabo area, no additional management measures relating to construction noise were identified during this consultation; 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.

- Minimise works between the period of 10pm 7am. Currently, this period is outside of the standard work hours defined in the CoA. Any out of hours work will need to be assessed in accordance with Section 2.4.
- Illabo Public School has identified their noise sensitive periods as weekdays 9:15am

 3:05pm. Construction noise and vibration during this period will be managed in
 accordance with the mitigation measures detailed in Section 8.0.

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 **Table 23** below.

Precinct Area	Receiver Type	Level of Engagement	Distance from Work Site (m)			
Junee to Illabo Clearances						
Illabo Public School	Educational	Consult	50			
Olympic Highway	Residential	Consult	30			

Table 23 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 24**, 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 24** (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 24**, however, these will be subject to provision of safe access and the specific location of work being undertaken at the time of monitoring. Vibration monitoring data will be made available to the AA and ER for information, upon request.

Location	Туре	Monitoring	Timing
Noise Monitoring			
Western Work Areas 701 Olympic Hwy, Marinna	Activities based noise monitoring	 Confirming that actual noise levels are consistent with predicted noise impacts and that the effectiveness of actions and 	At the commencement of the activities being
731 Ballengorrah Ln, Wantiool		mitigation measures implemented are satisfactory,	undertaken
Eastern Work Areas 2-4 Turland St, Illabo 7 Tohheys Ln, Illabo 26 Morris St, Illabo		 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 	
Illabo Public School	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.

Table 24 Indicative Monitoring Locations



Location	Туре	Type Monitoring							
	Plant / Equipment Checks	Spot checks would be carried out as required on a case-by-case basis, such as	case-by-case basis						
	CHECKS	 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.							
Vibration Monitoring									
Western Work Areas Structure within the Rail Corridor at Wantiool	Activities based vibration monitoring	• Confirming that vibration levels are below criteria and that the effectiveness of actions and mitigation measures implemented are satisfactory	At the commencement of the activities being undertaken						
 Eastern Work Areas 36 Turland St, Illabo OR Illabo Public School 2 Crowther St, 	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 	Throughout vibration generating activities being undertaken within minimum working distances to nearby						
Illabo OR Illabo Hotel		complaint(s) (determined on a case-by- case basis)	receivers.						
Structures within the Rail Corridor at Illabo Yard									

Cumulative Impacts 9.0

Martinus Rail

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.

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 – Junee to Illabo

Construction Noise and Vibration Impact Statement

Martinus Rail

SLR Project No.: 610.031317.00001

5 February 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

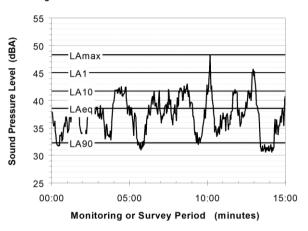
The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit 10⁻¹² W.

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.

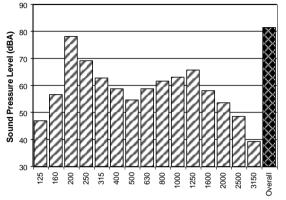
The units for frequency are Hertz (Hz), which represent the number of cycles per second.

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

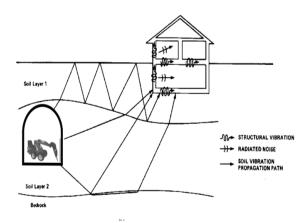
People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience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

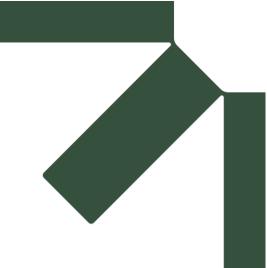
Typical sources of ground-borne or structure-borne noise include tunnelling works, underground railways, excavation plant (eg rockbreakers), and building services plant (eg fans, compressors and generators).

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

A2I | Albury to Illabo – Junee to Illabo

Construction Noise and Vibration Impact Statement

Martinus Rail

SLR Project No.: 610.031317.00001

5 February 2025



Martinus Rail A2I | Albury to Illabo – Junee to Illabo

	Equipment	Total Lw (dBA)	Articulated Dump Truck	Ballast Regulator ¹	Ballast Tamper ¹	Centrifugal fan	Compressor	Crane (mobile)	Crane Franna (20 tonne)	Dynamic Track Stabiliser	Elevated Work Platform	Excavator - Tracked (20T)	Front End Loader	6 Generator	Grinder	Hand tools (electric)	Hi-Rail Crane	Hi-Rail Excavator	Hi-Rail Truck/Trolley	Hydraulic / Pneumatic Tools	Hydrema / Moxy	Light Vehicle	Lighting Tower	PEM-LEM	Plate Compactor	Rail saw ¹	B Roller – Vibratory ¹	Saw - Concrete ¹	Telescopic Handler	Truck - Medium Rigid (20T)	Truck - Vacuum (NDD)	Watercart
	Sound Power Level (Lw) ²		109	114	115	90	109	104	98	113	97	105	113	92	105	102	104	105	103	116	107	95	80	100	104	118	109	118	99	103	109	105
	Estimated utilisation (%)		25	75	75	100	50	30	30	50	25	50	50	100	30	75	30	50	25	75	25	25	100	50	100	25	100	25	50	25	100	75
ID	Construction Scenario																															
W.001	Site Establishment / Demobilisation	112	1					1			1			1		2						2					1			2		1
W.002	Compound Operation	109				1	1		1					1		1						2								2		1
W.003	Track Work - Peak	119				1	1	1			1	1	1	1	1	2	1	1	1	1		2	1	1		1			1	2		1
W.004	Track Work - Typical	114				1	1	1			1		1	1		1	1	1	1			2		1					1	2		1
W.005	Track Tamping	116		1	1																											
W.006	Crossover Removal	114	1											1	1	1	1	1			1	2	1			1				2		
W.007	Drainage Work	112						1				1		1		1						2			1					2	1	
W.008	Signalling Work	104						1			1			1		1						2										
W.009	Level Crossing Work - Peak	116						1				1	1			1						2	2				1	1	1	2		
W.010	Level Crossing Work - Typical	112	1					1				1	1			2						2	2						1	2		

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

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

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Appendix C Noise Impact Maps

A2I | Albury to Illabo – Junee to Illabo

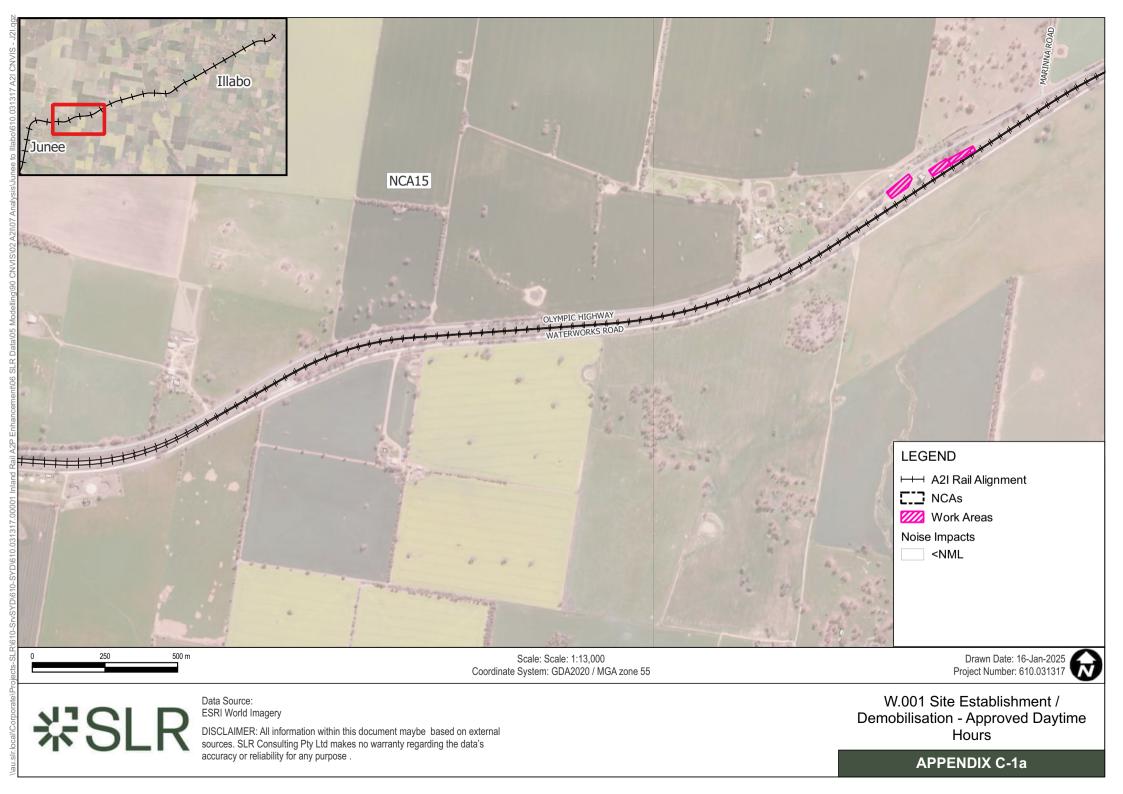
Construction Noise and Vibration Impact Statement

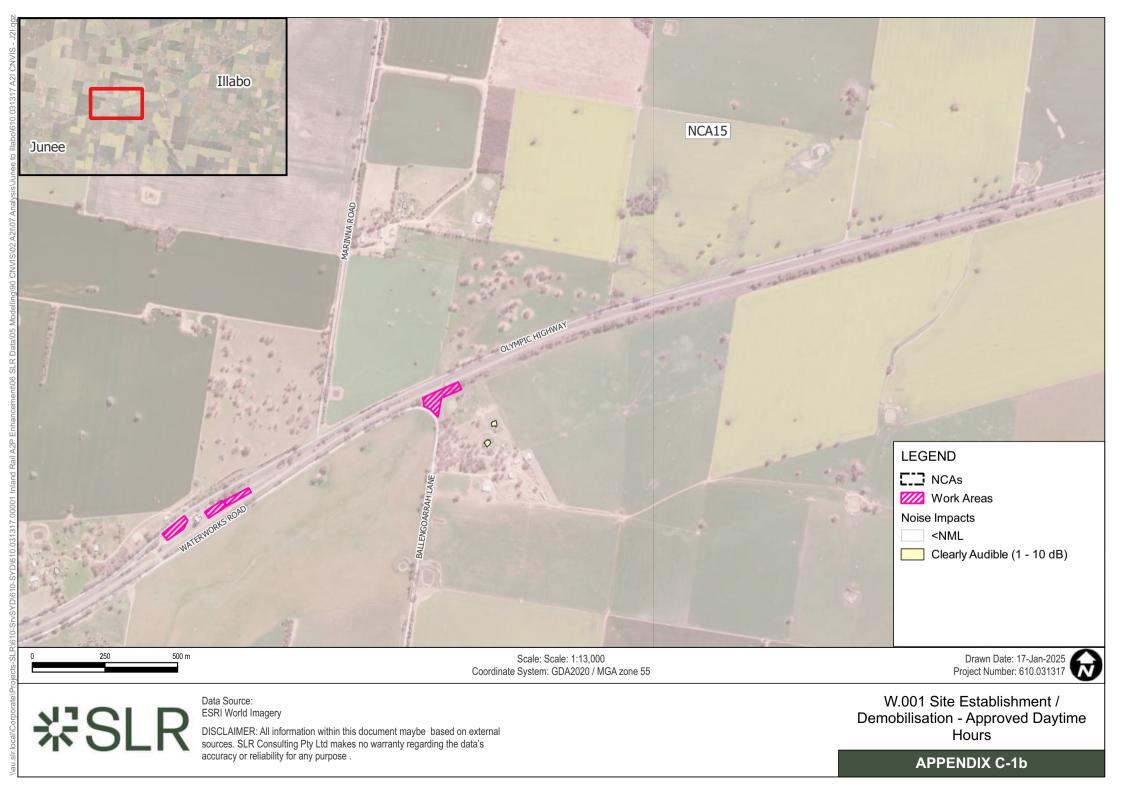
Martinus Rail

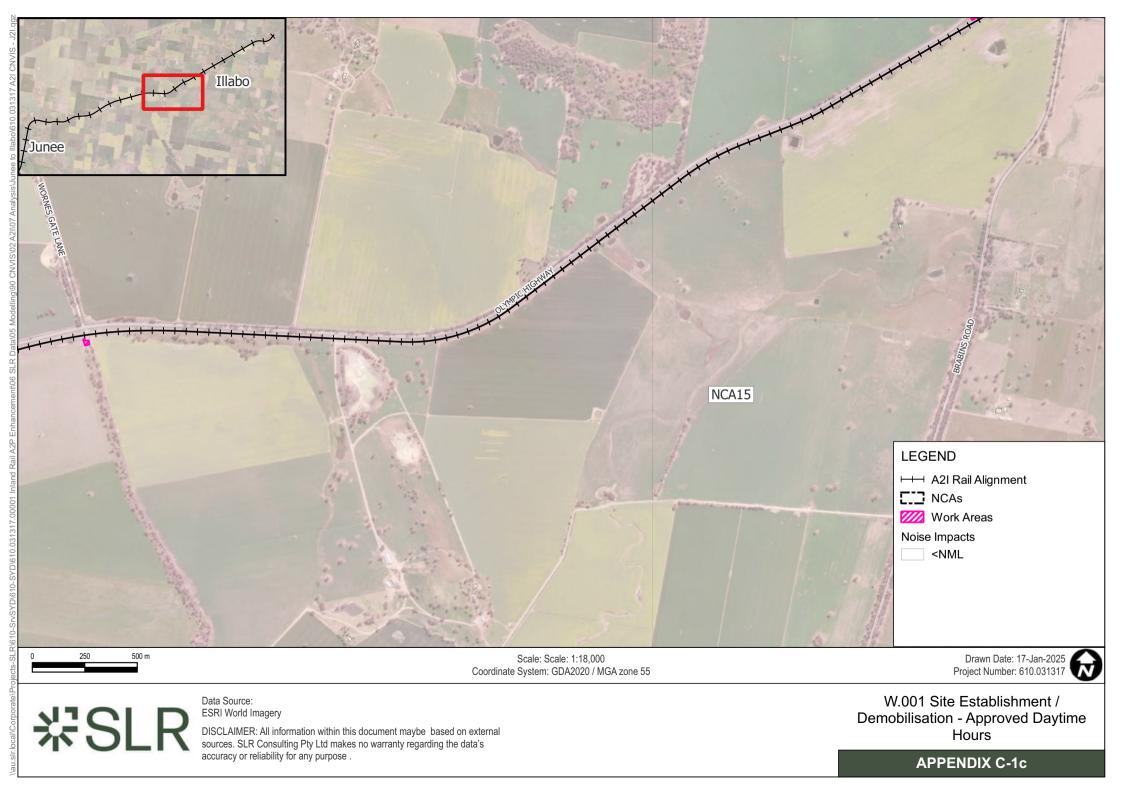
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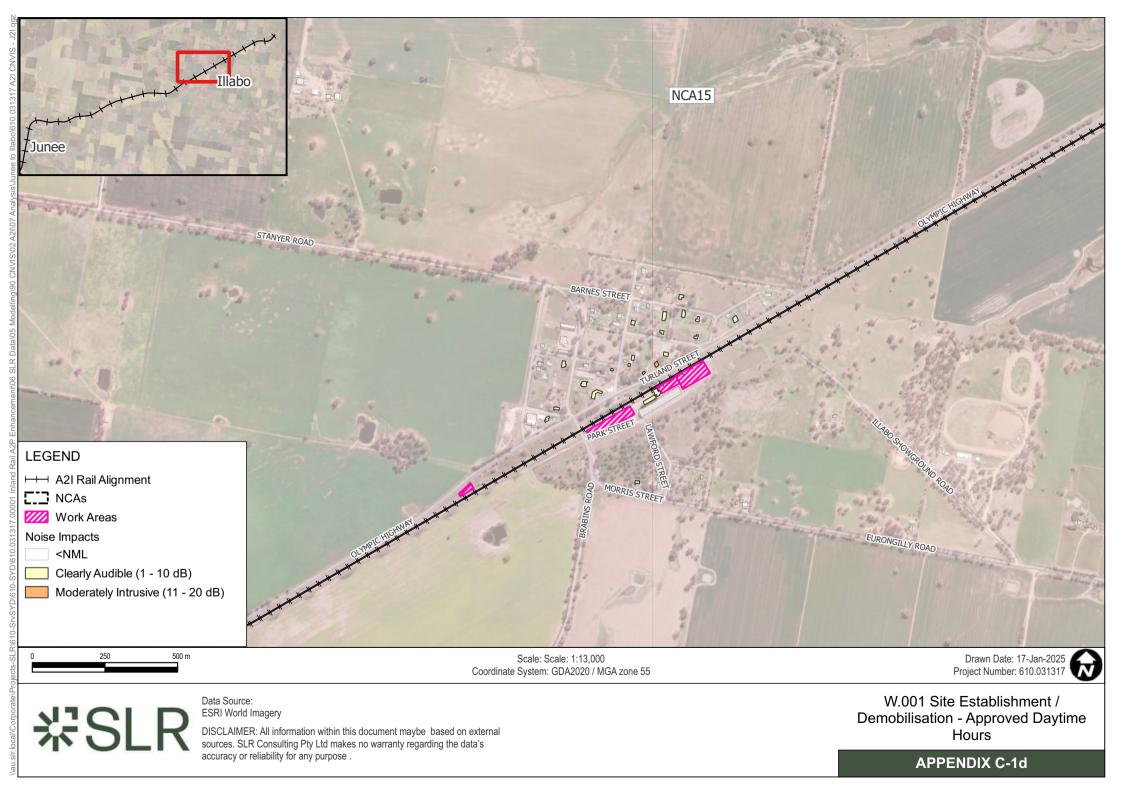
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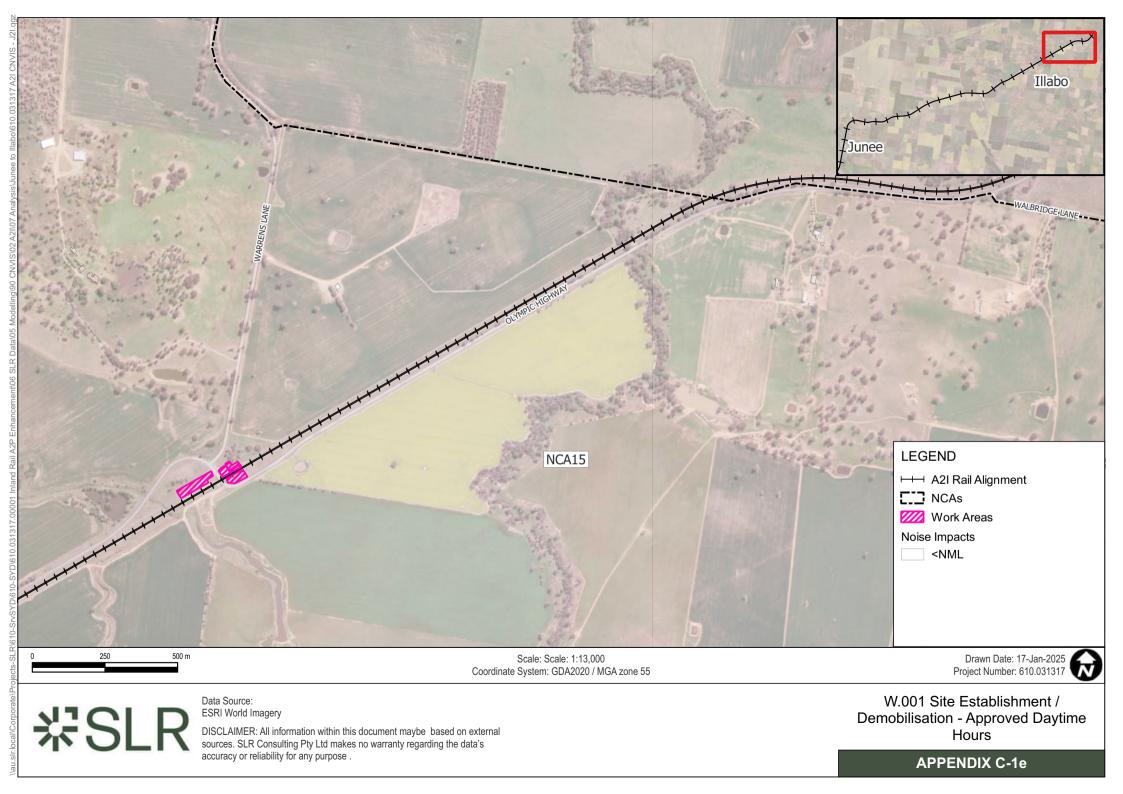


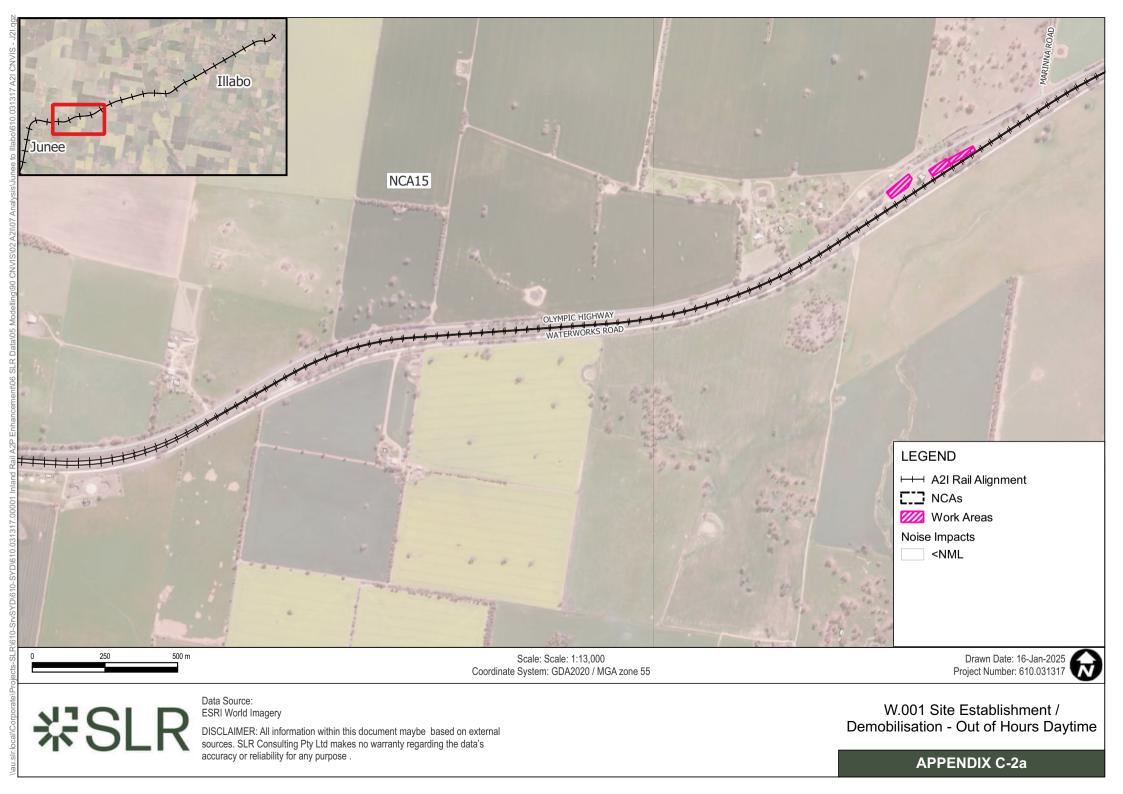


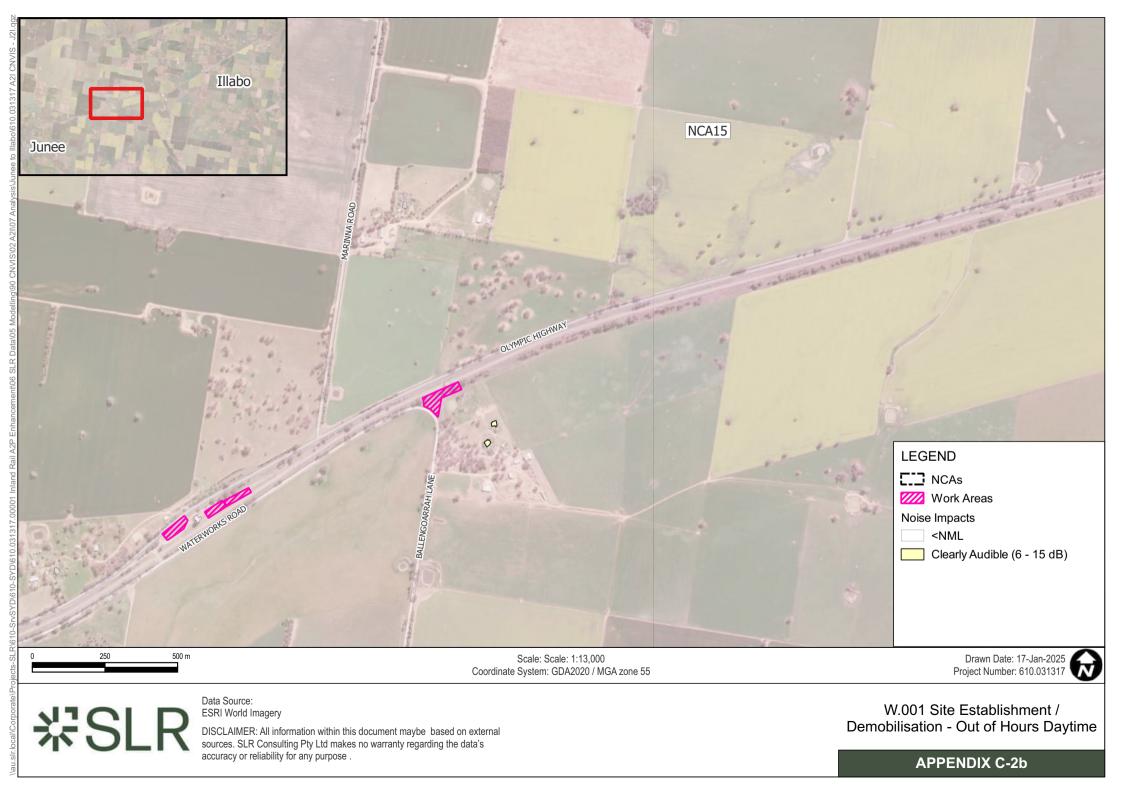


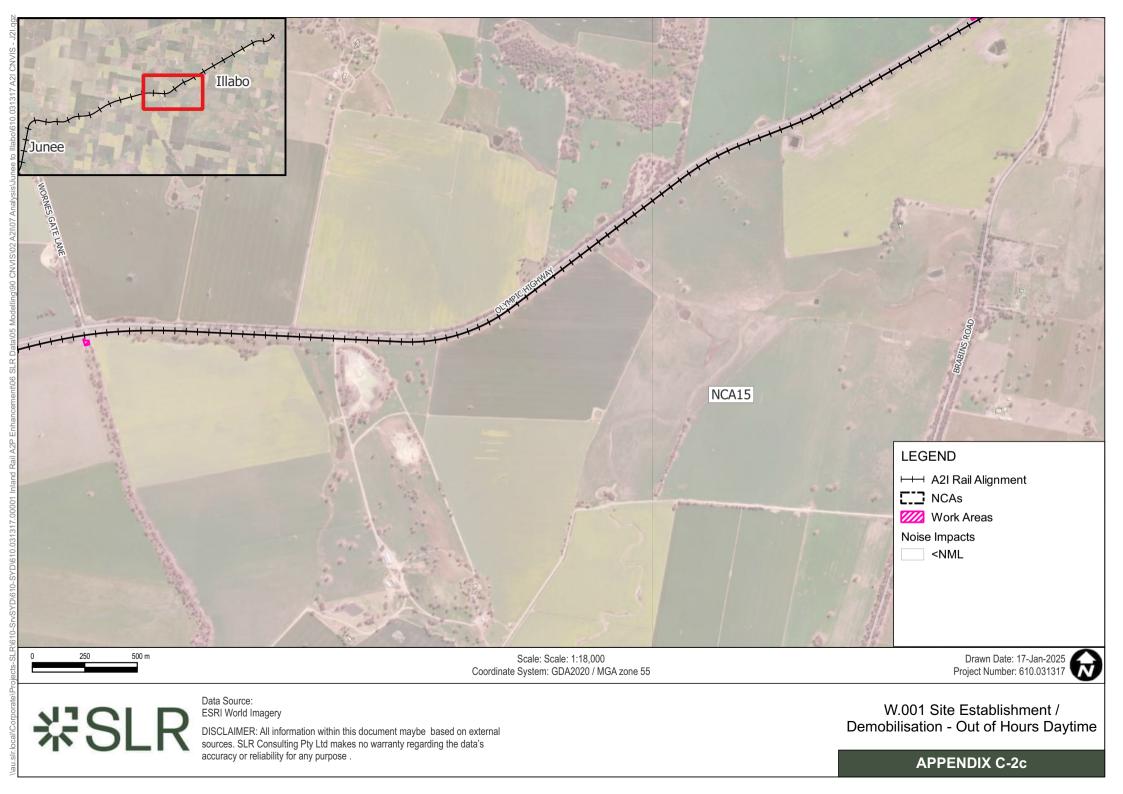


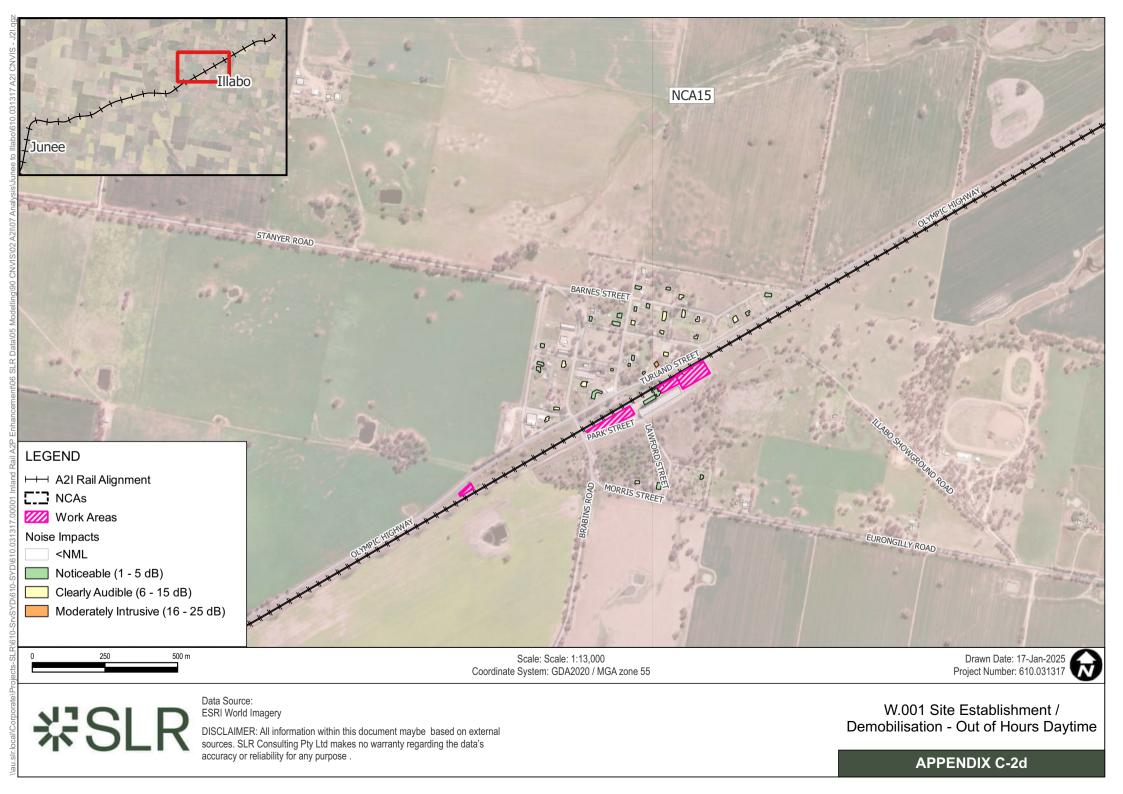


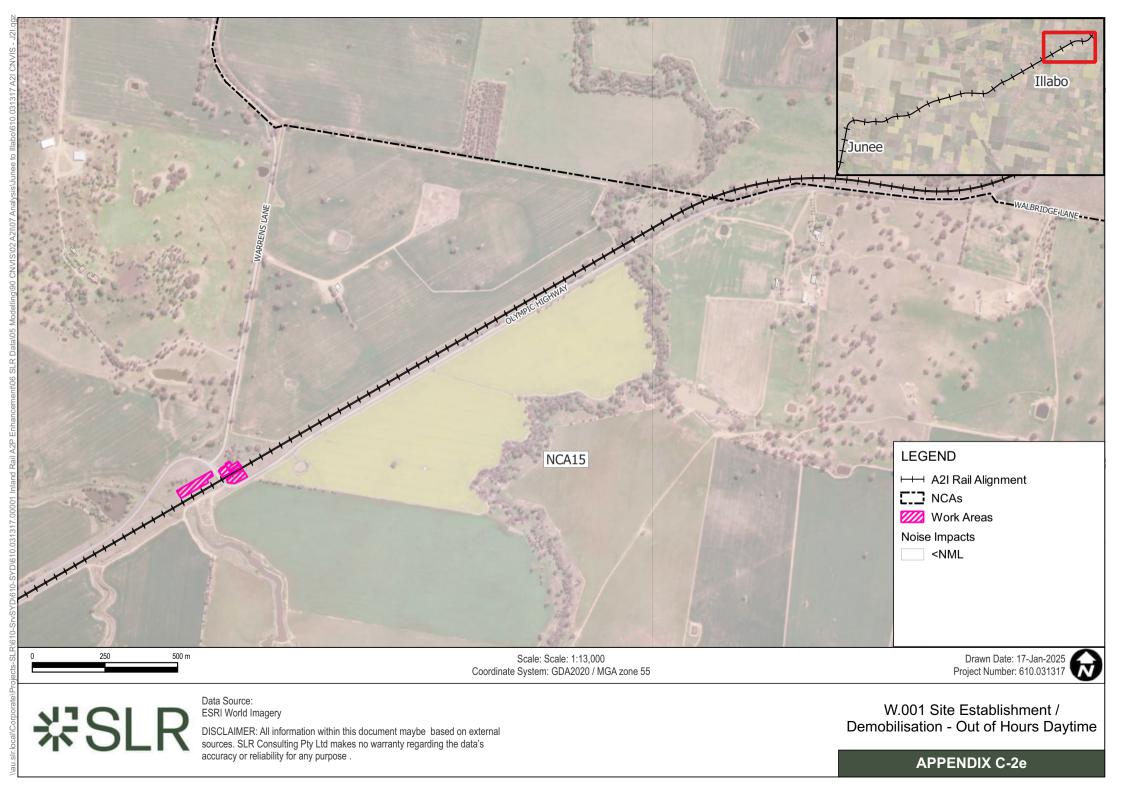


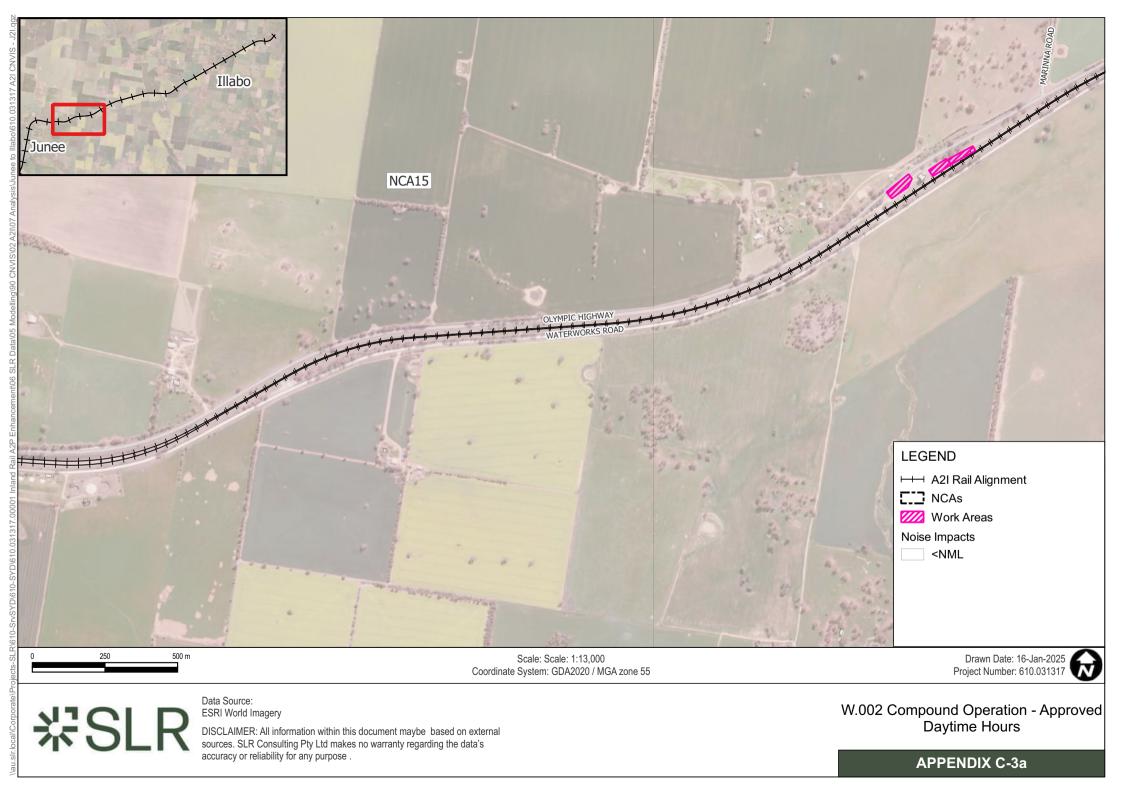


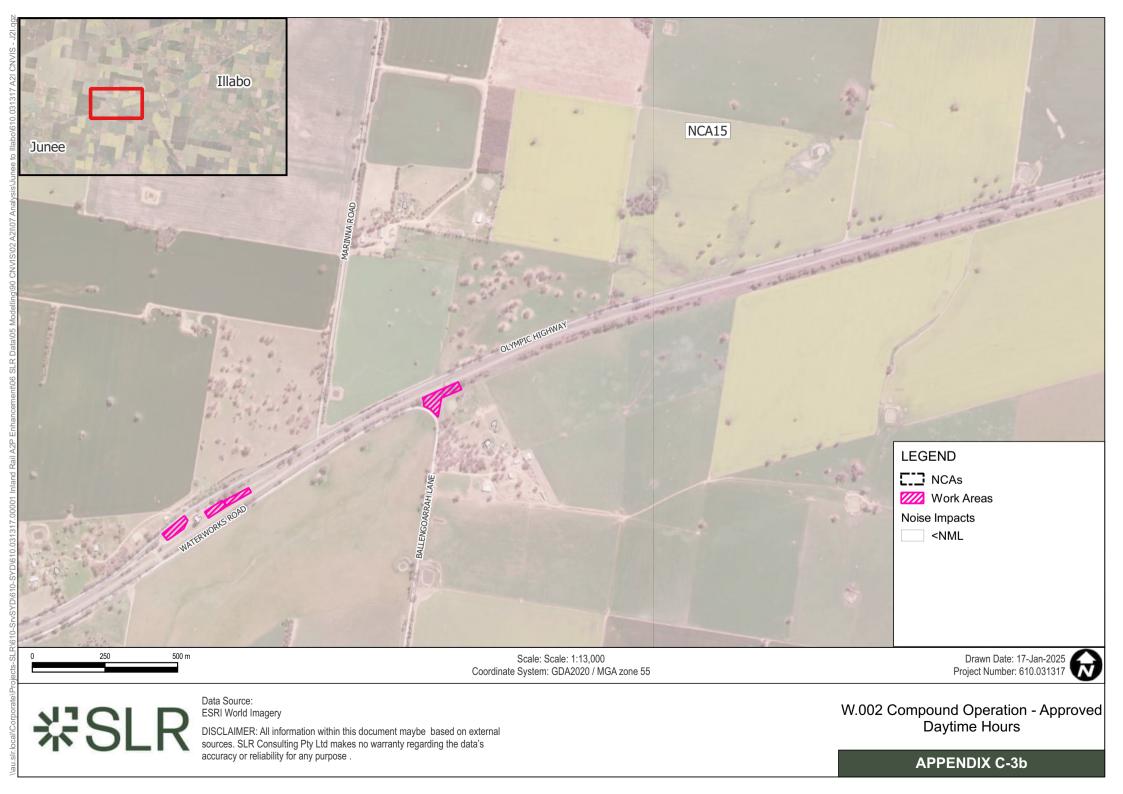


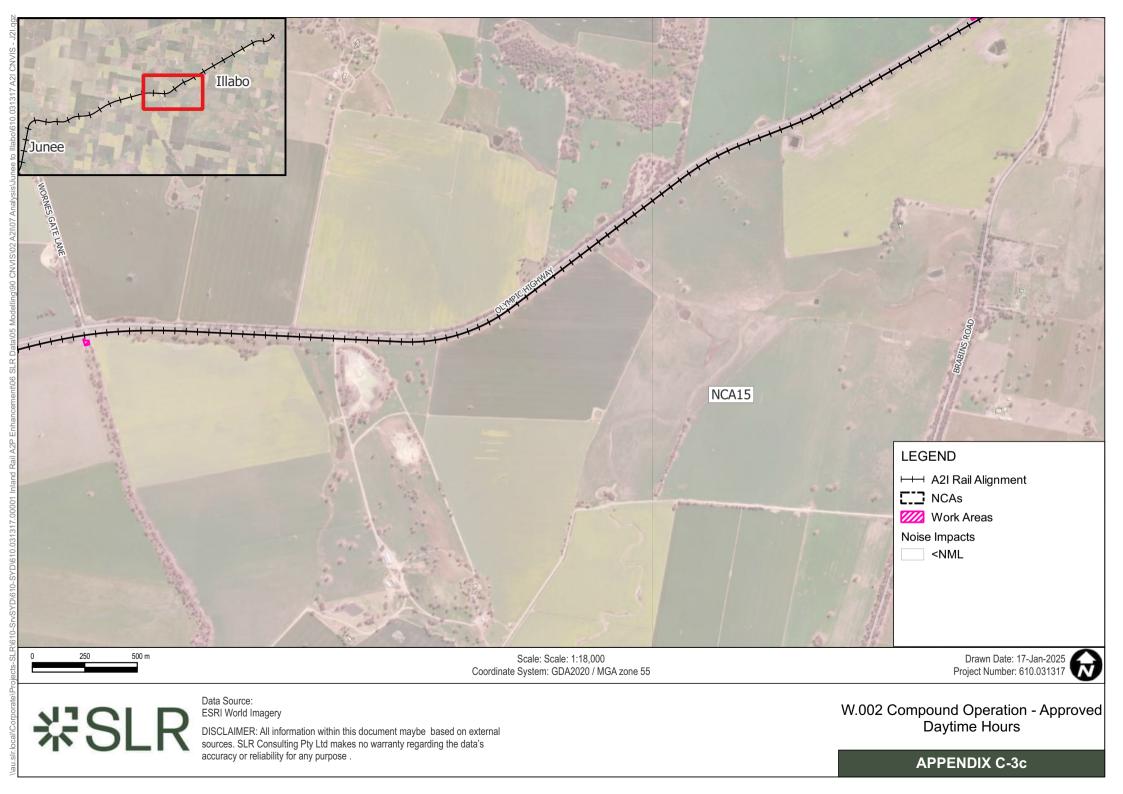


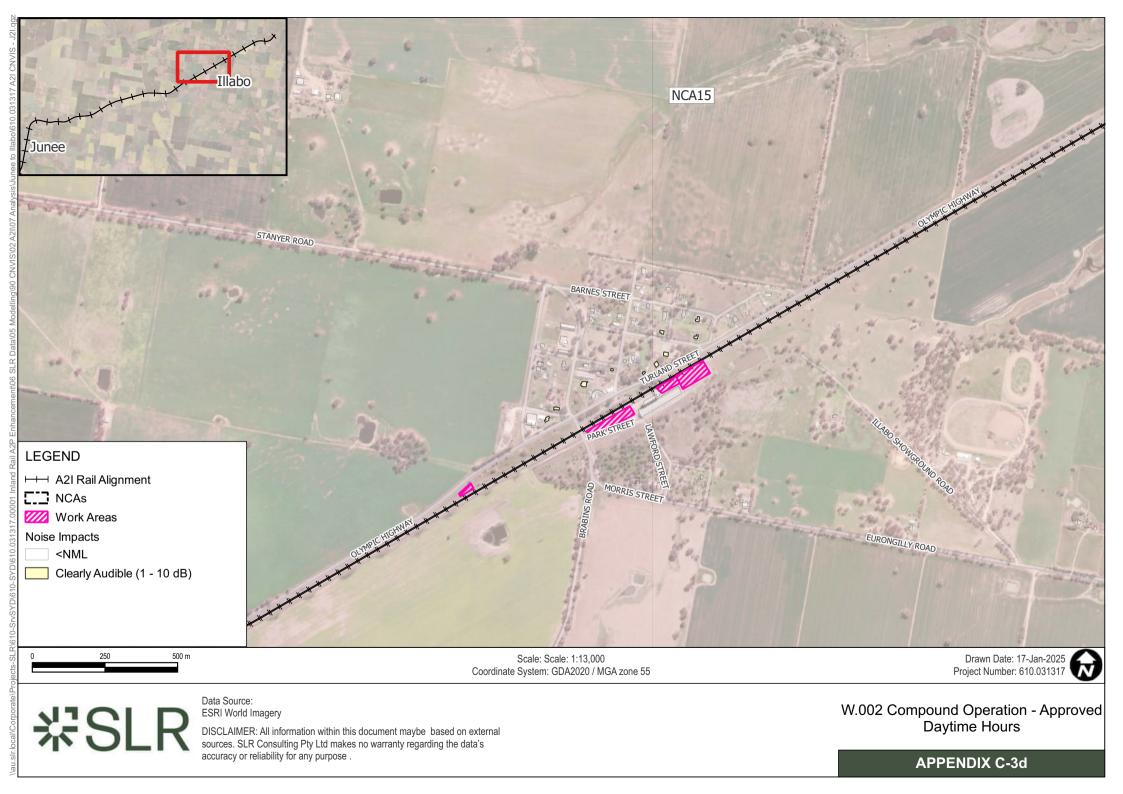


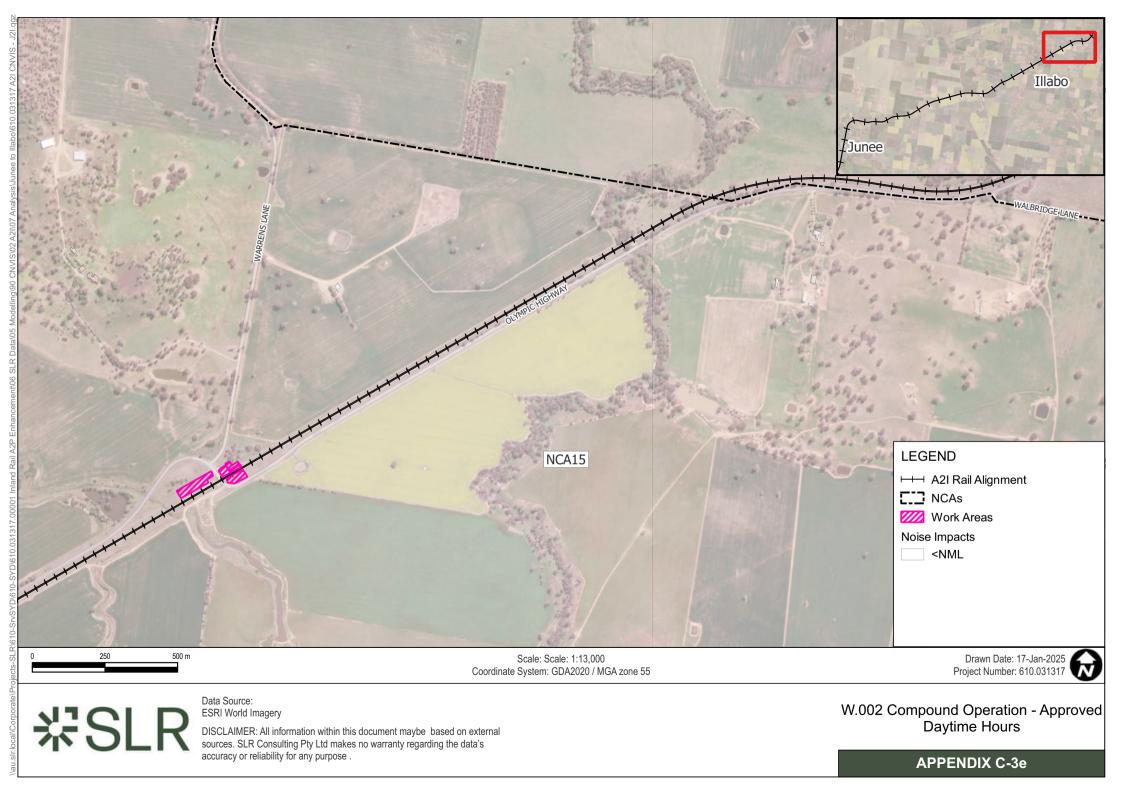


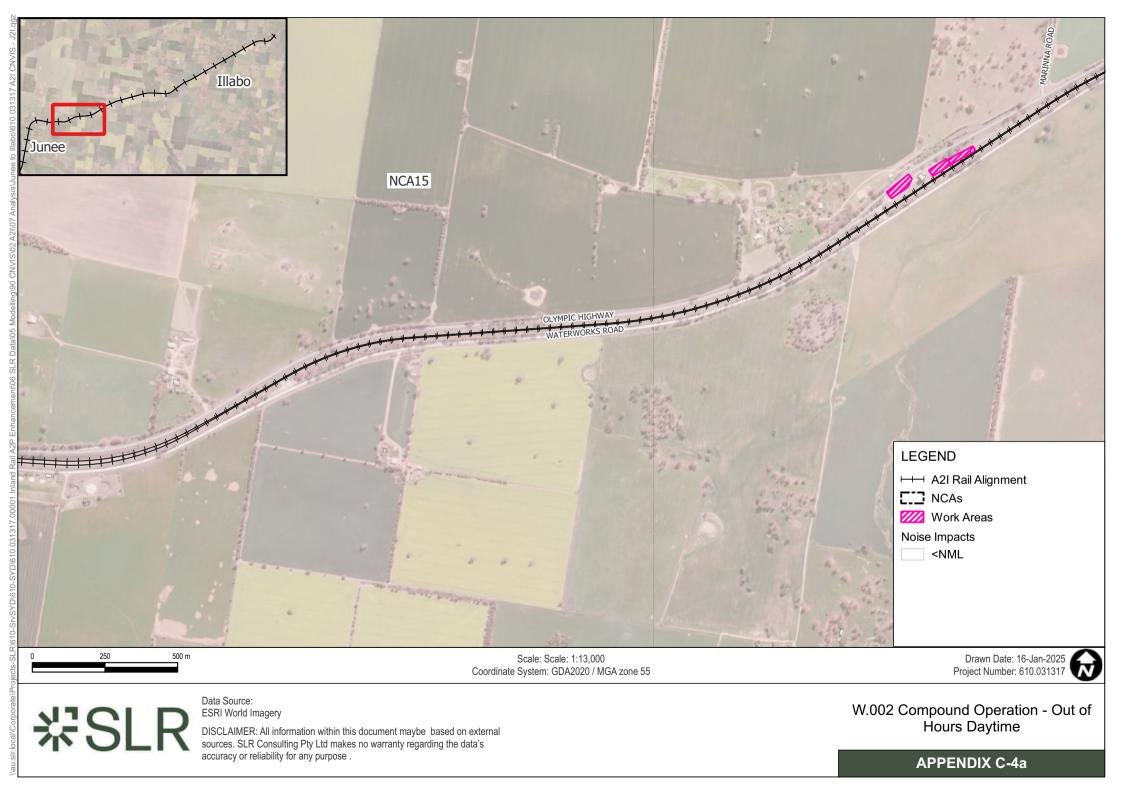


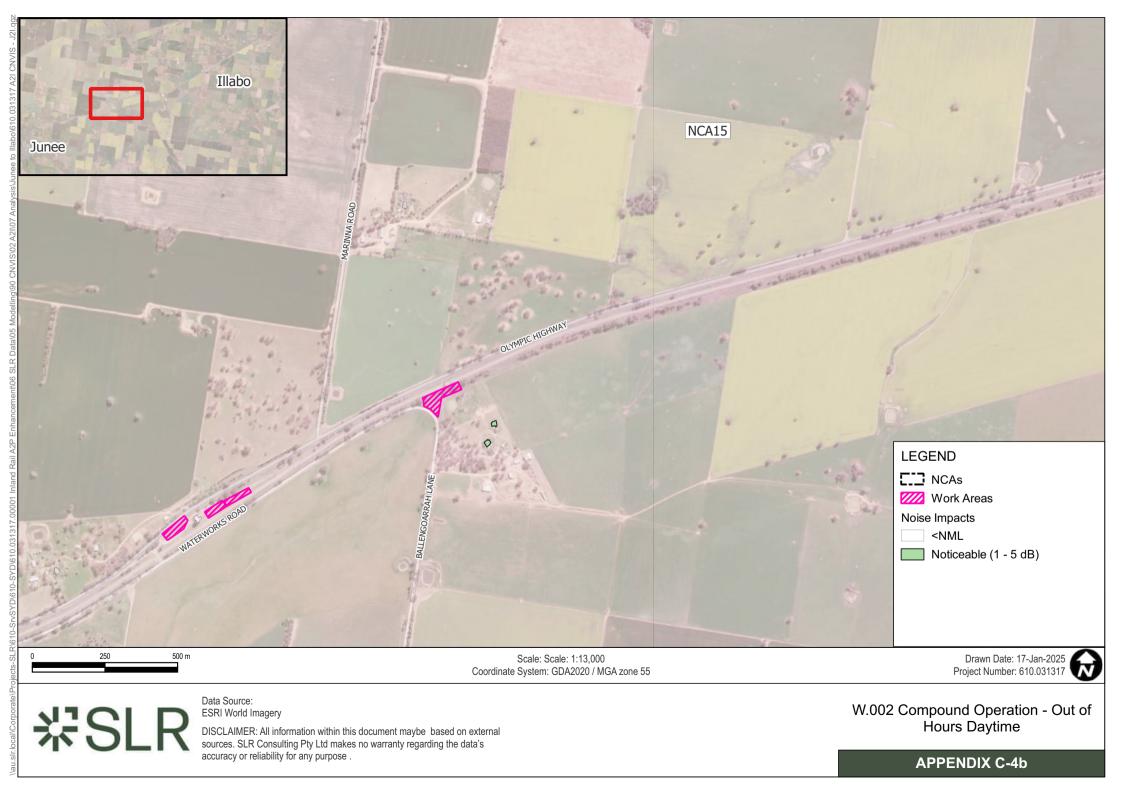


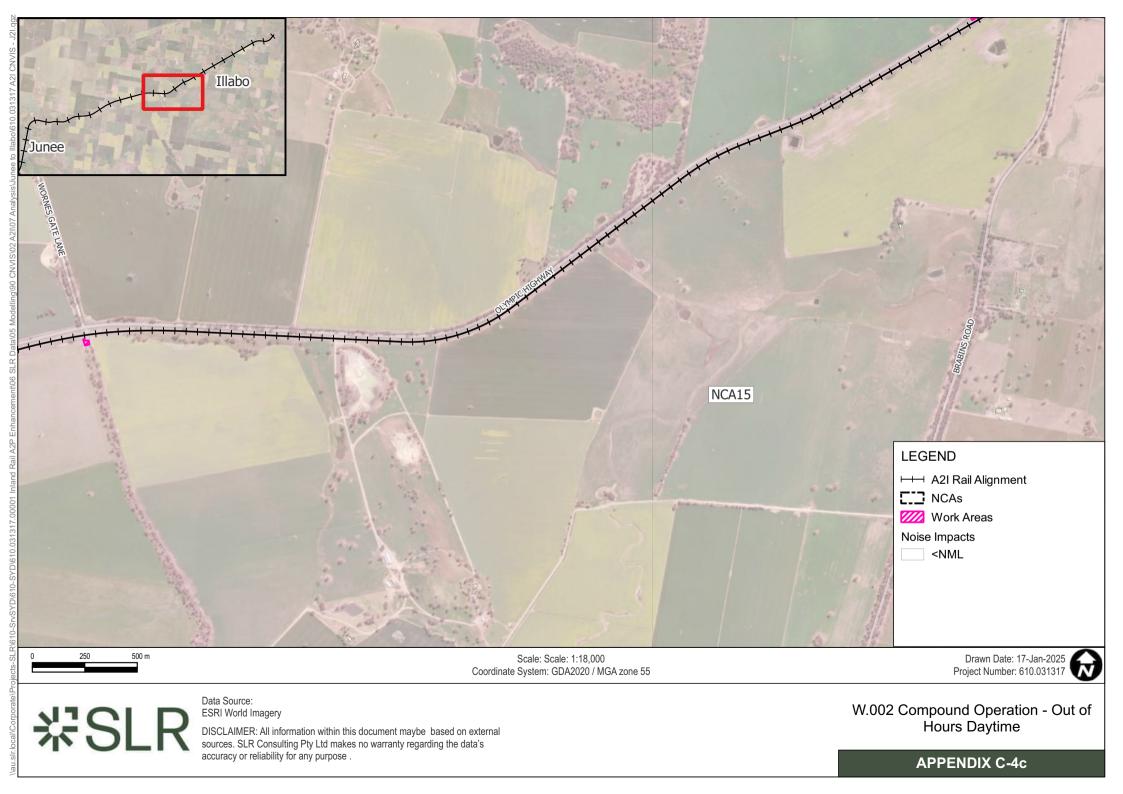


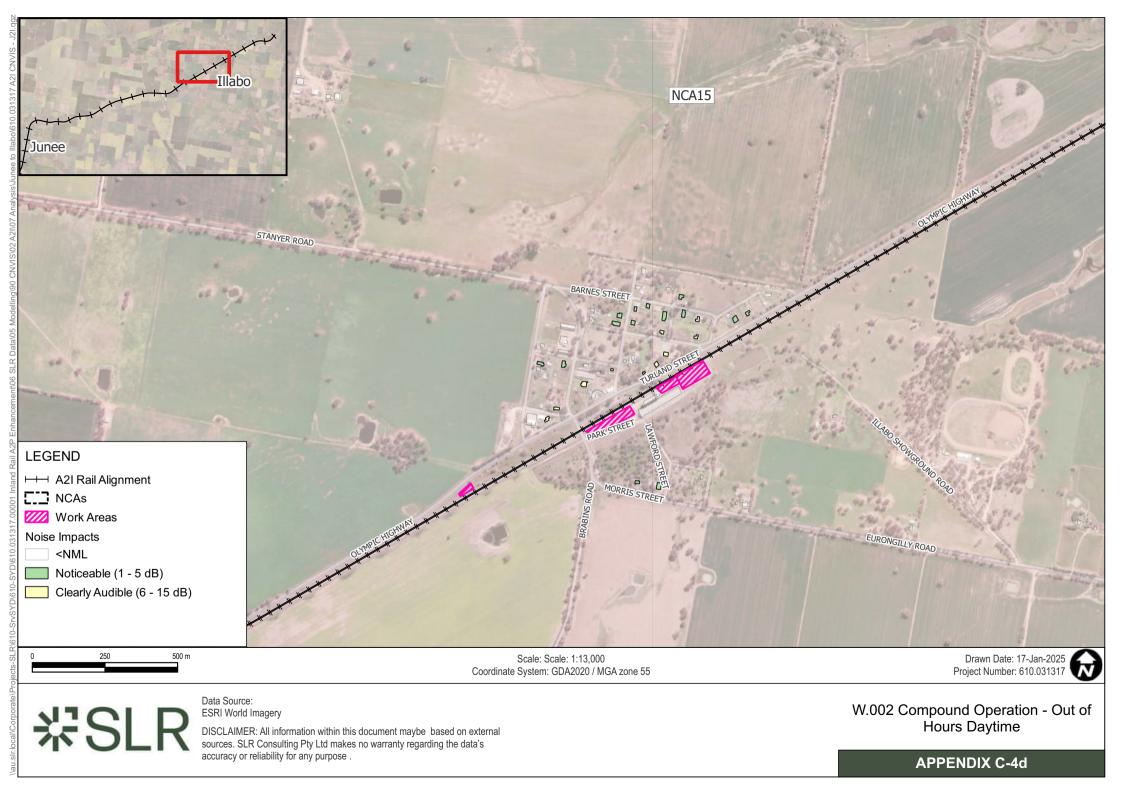


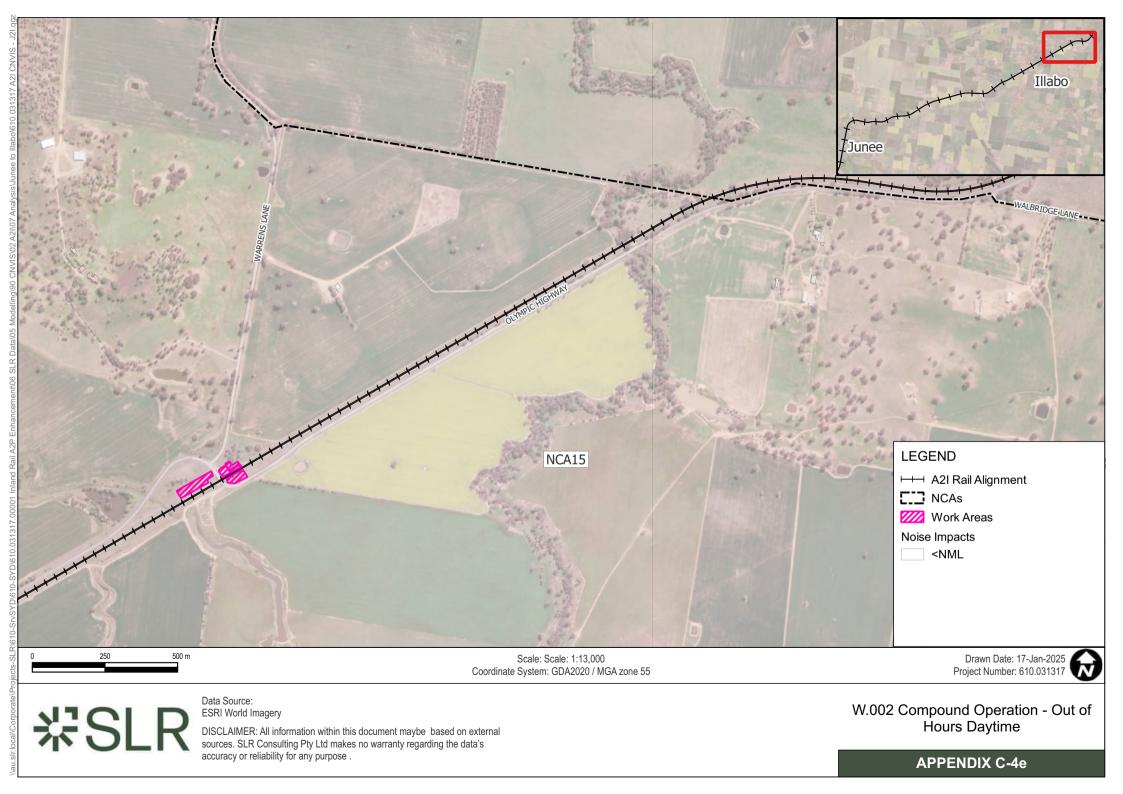


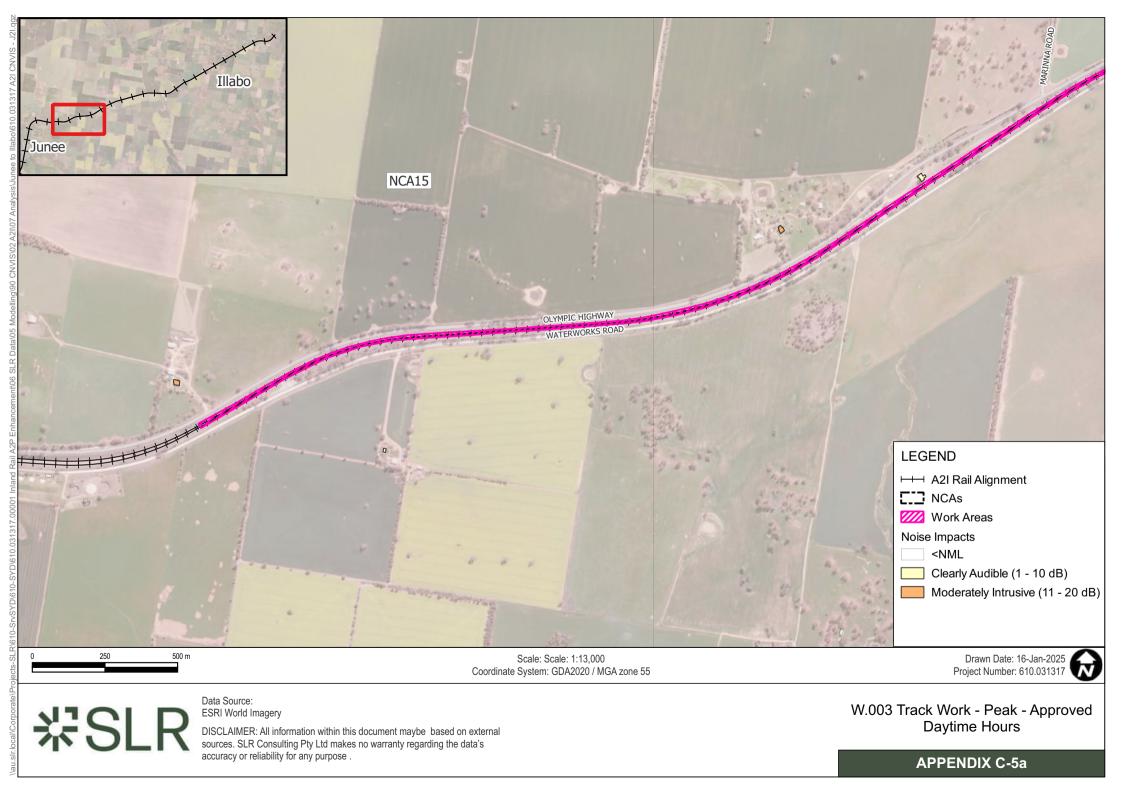


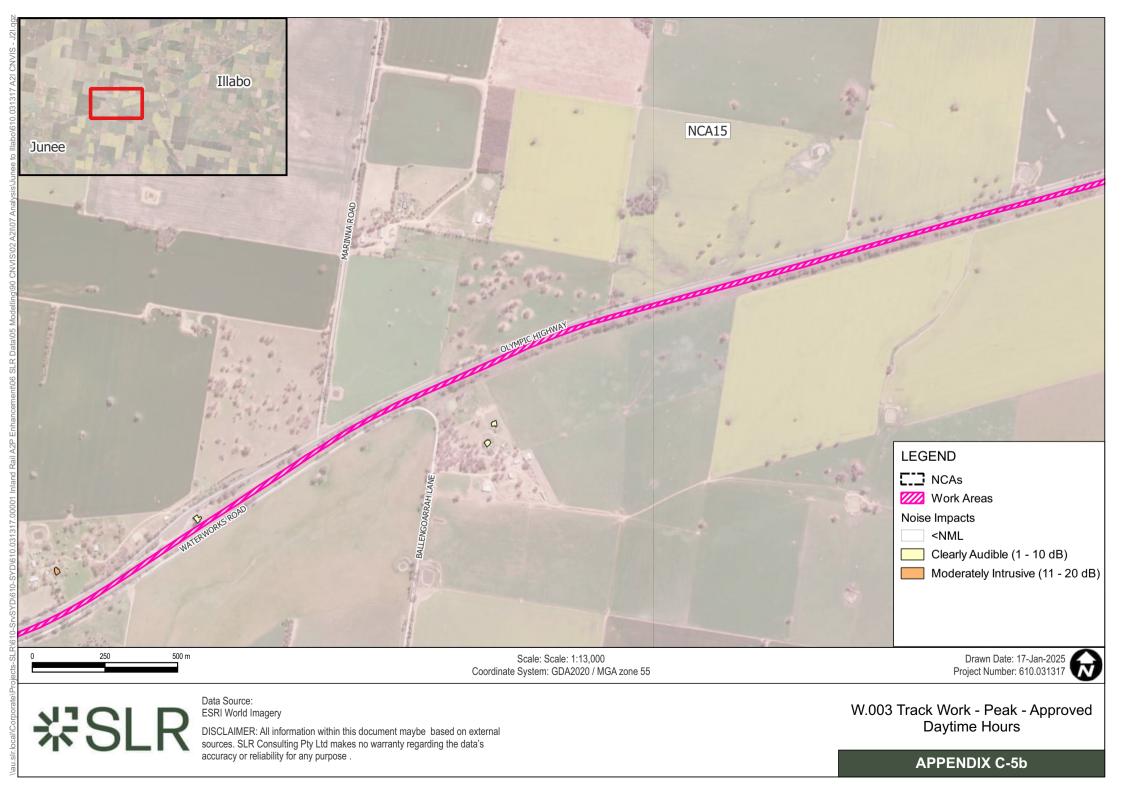


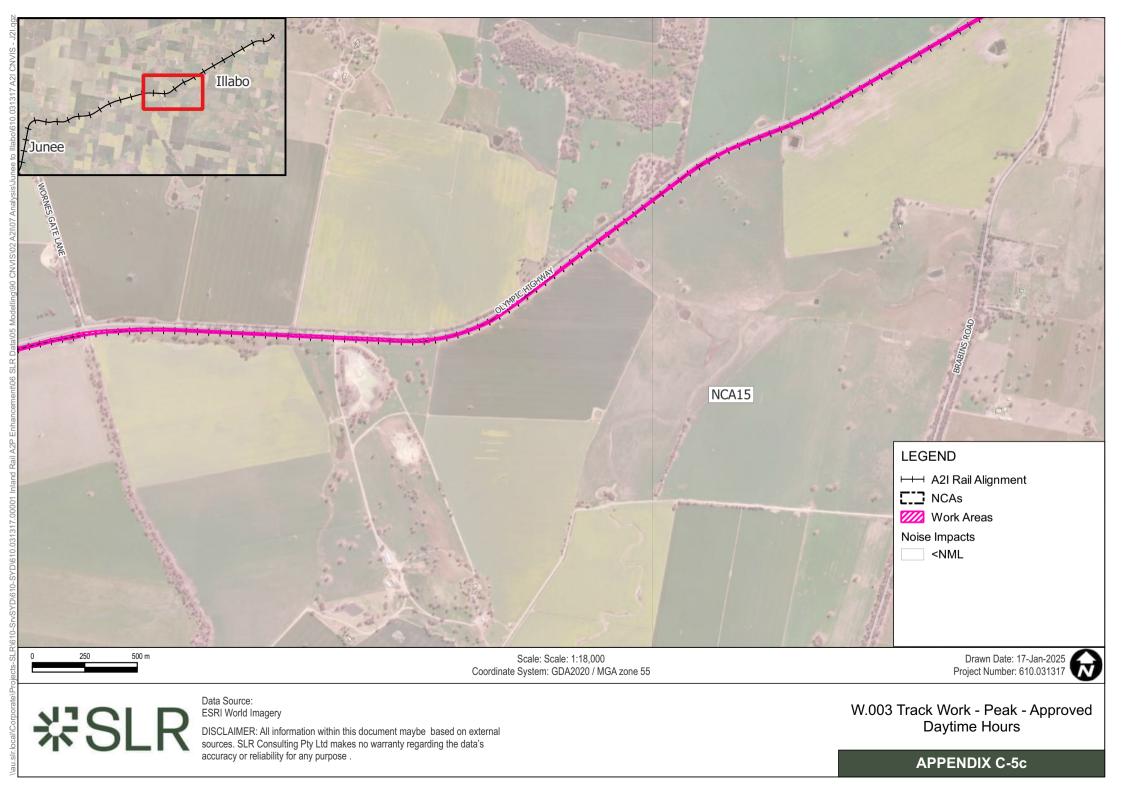


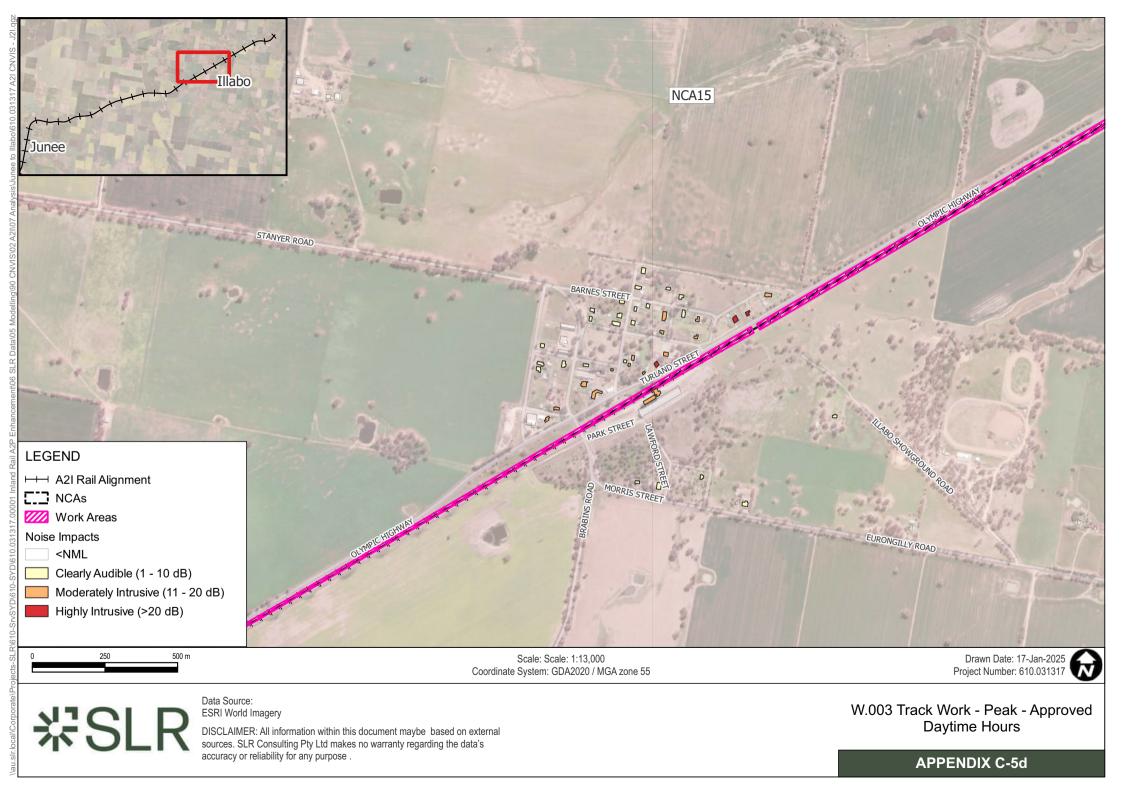


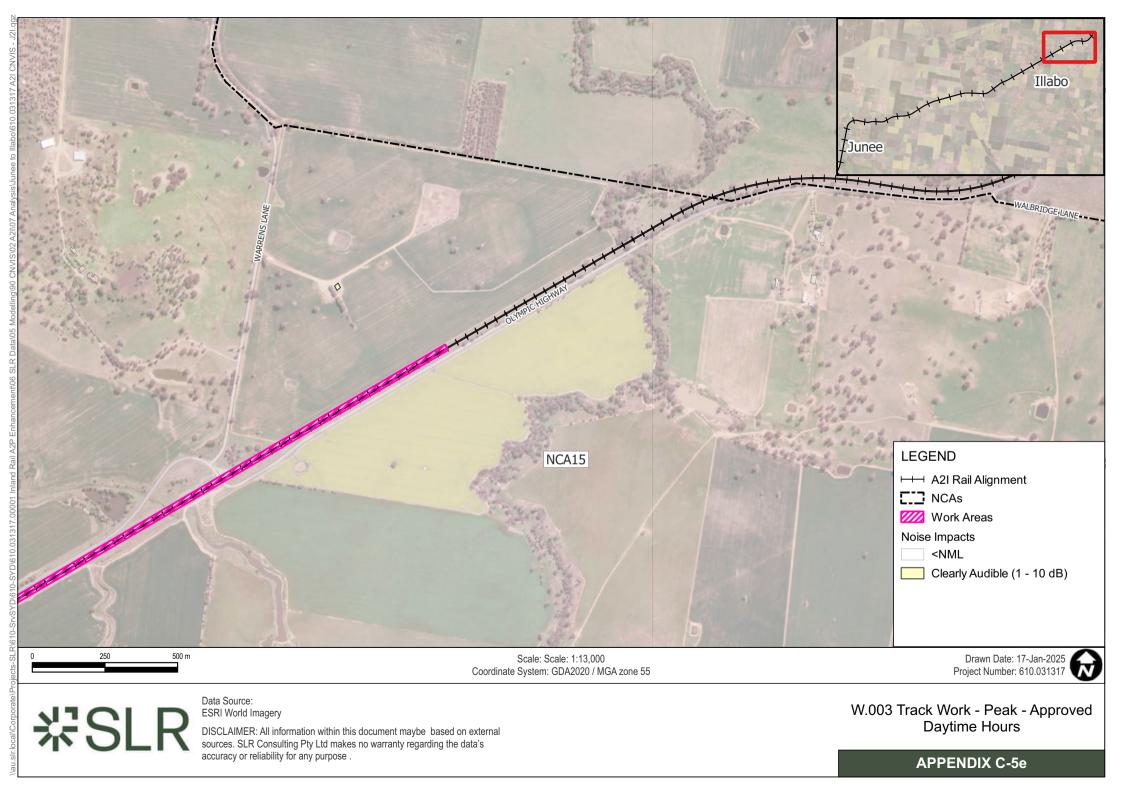


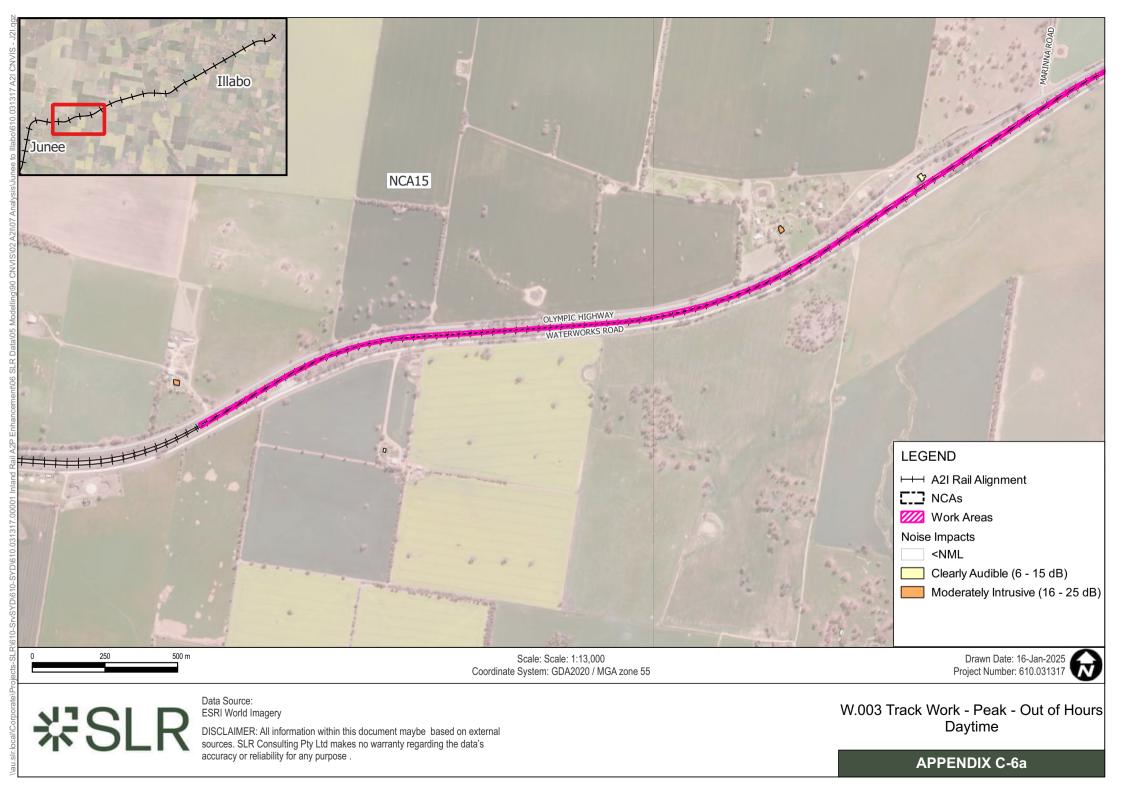


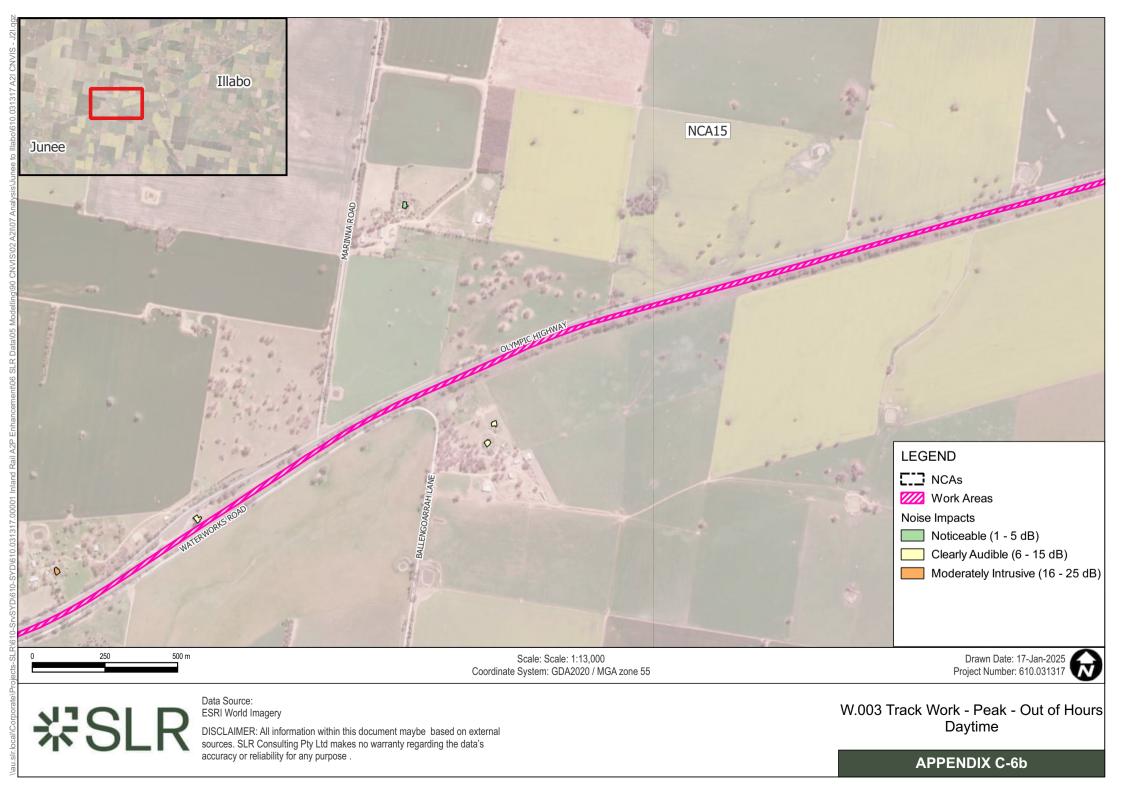


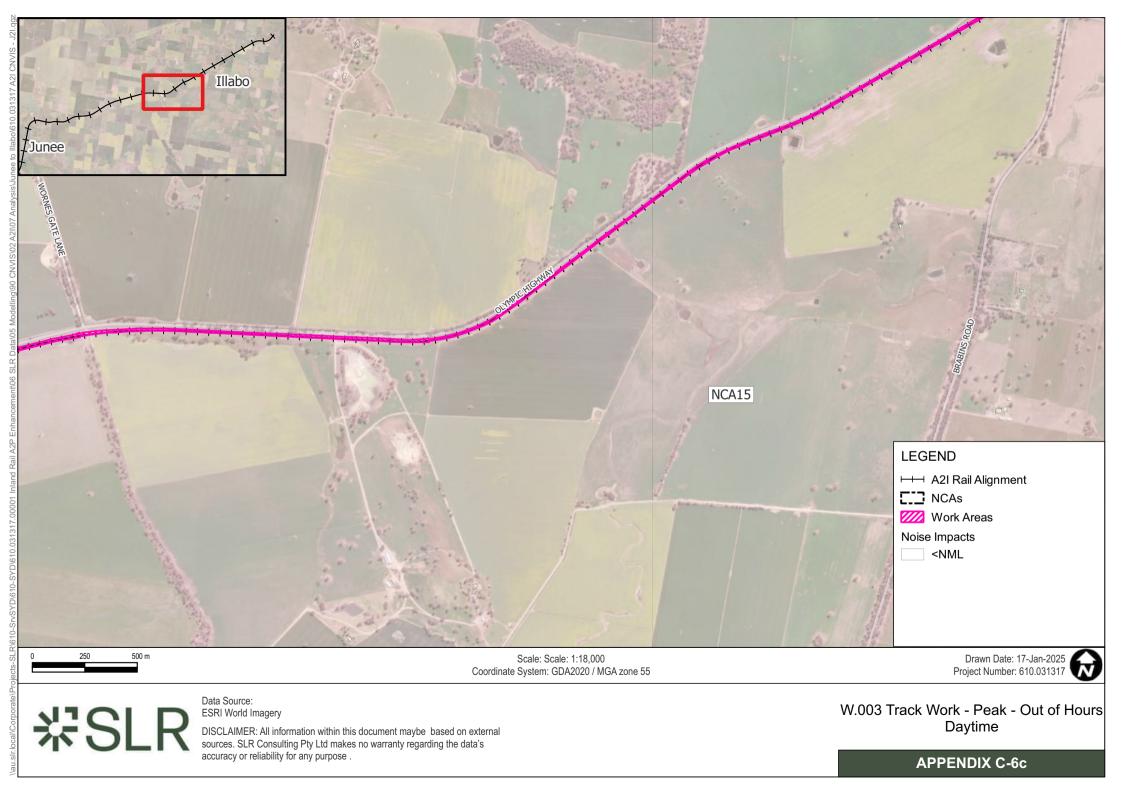


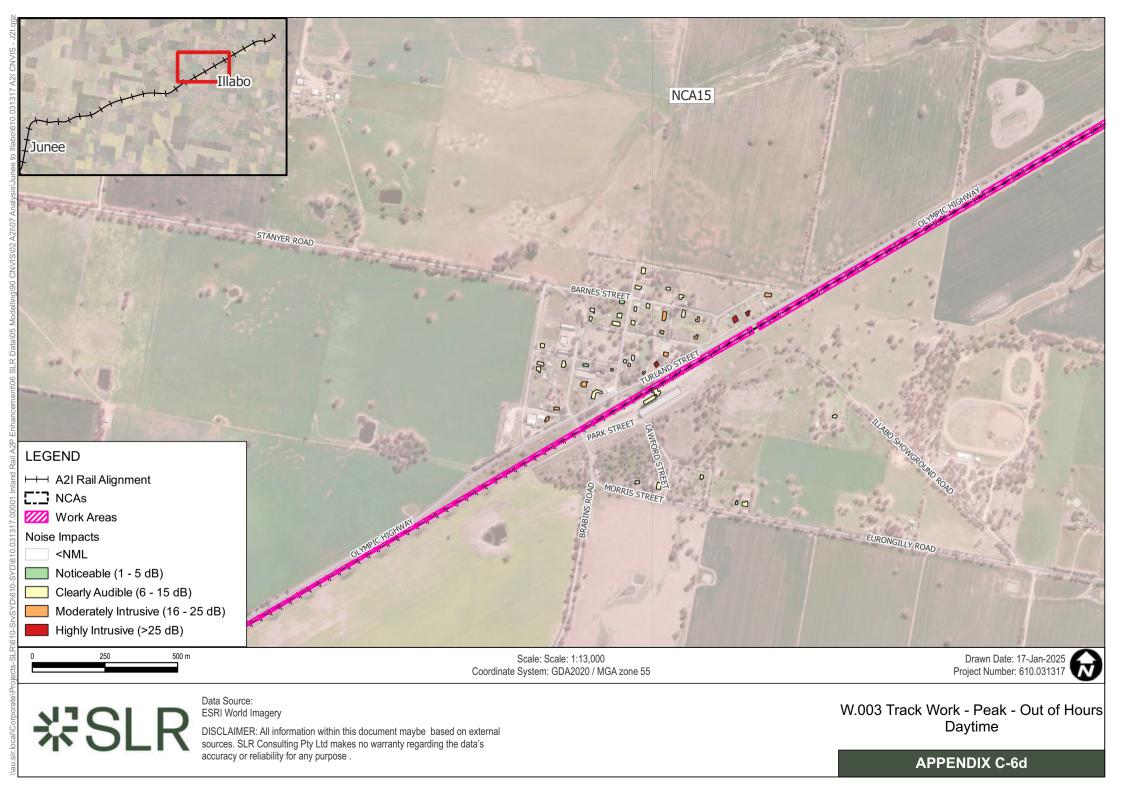


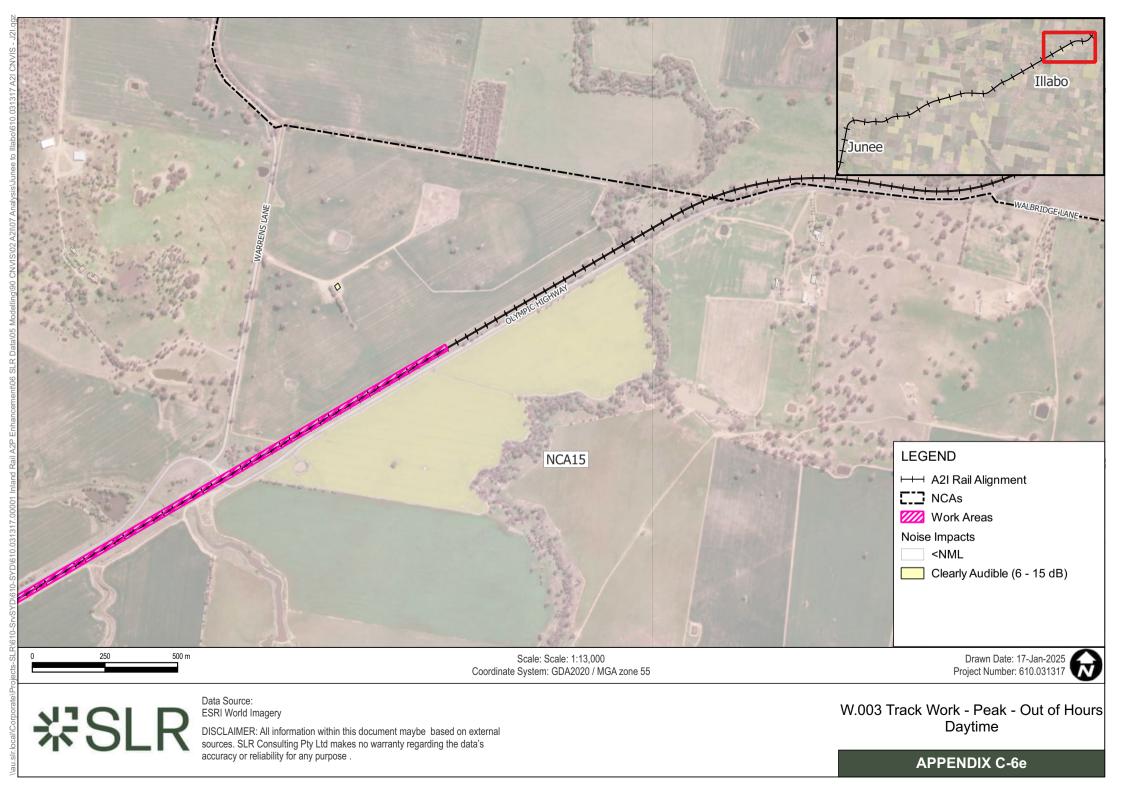


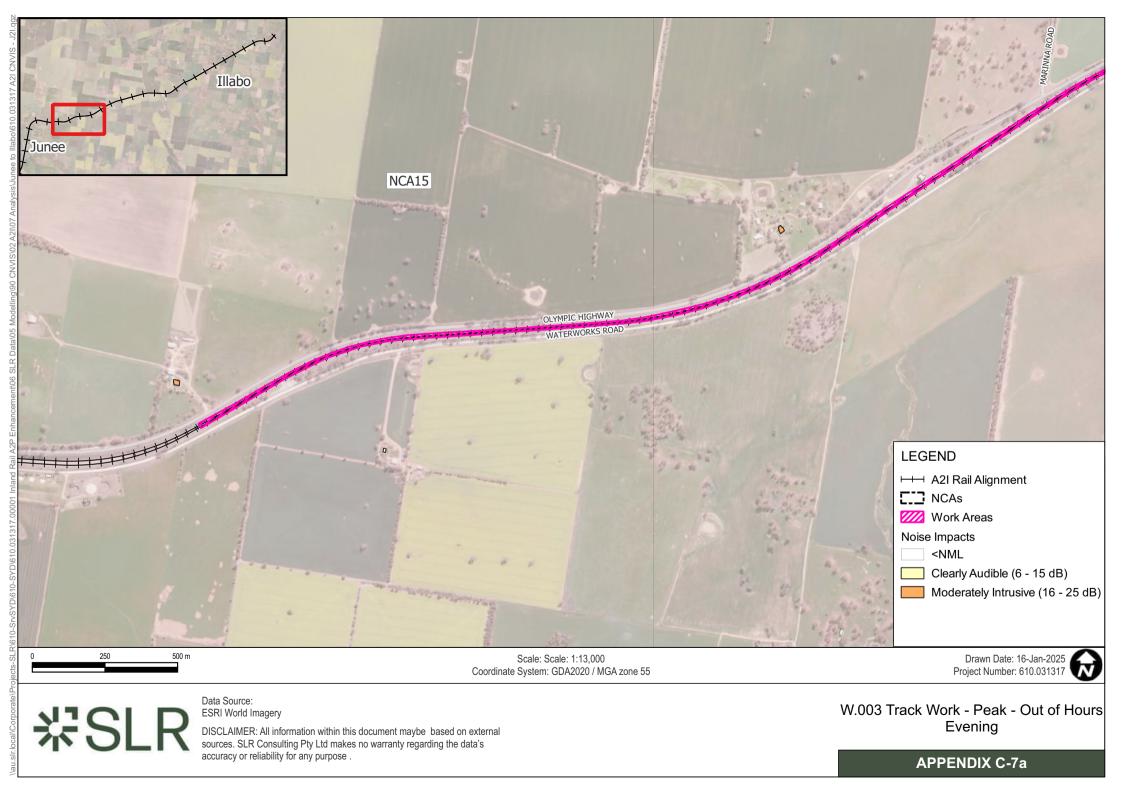


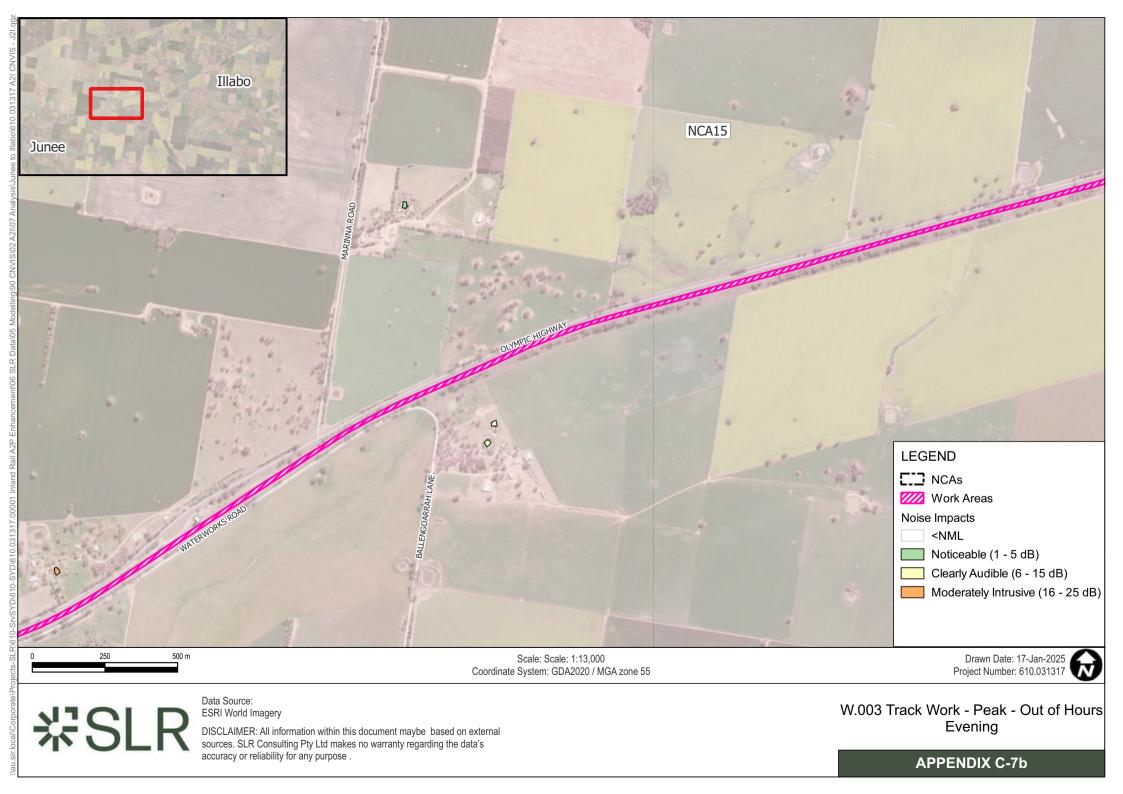


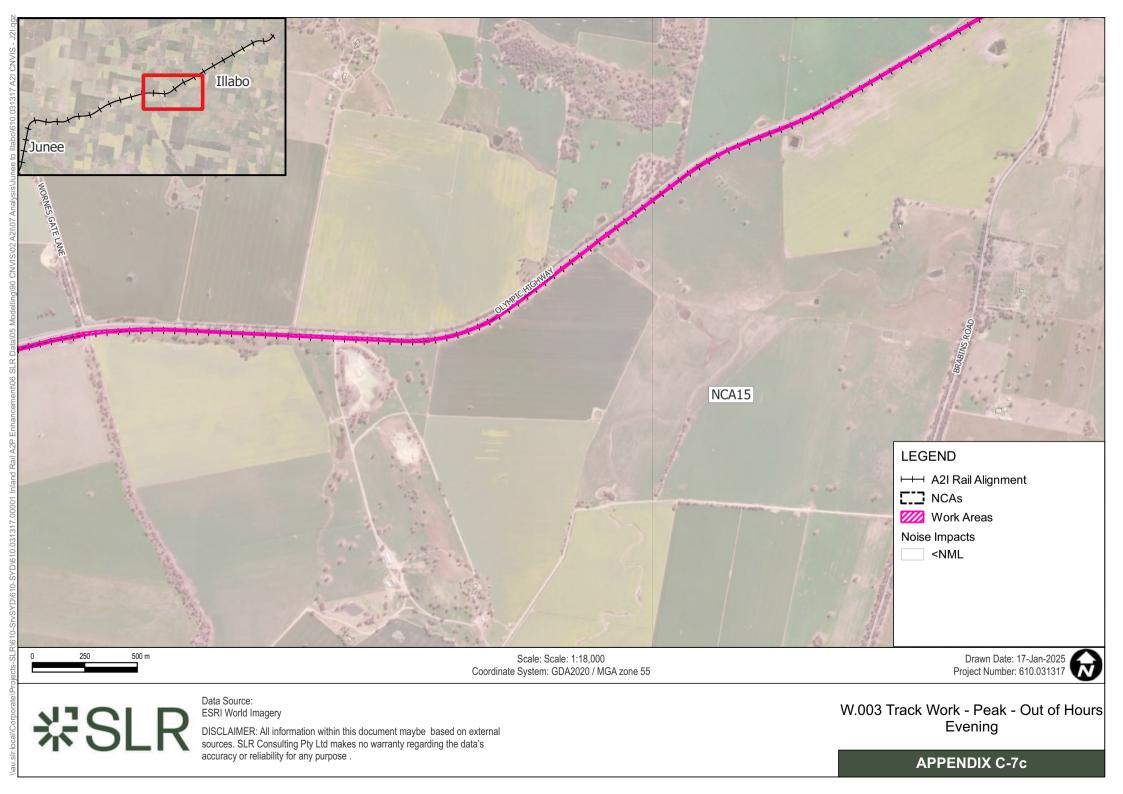


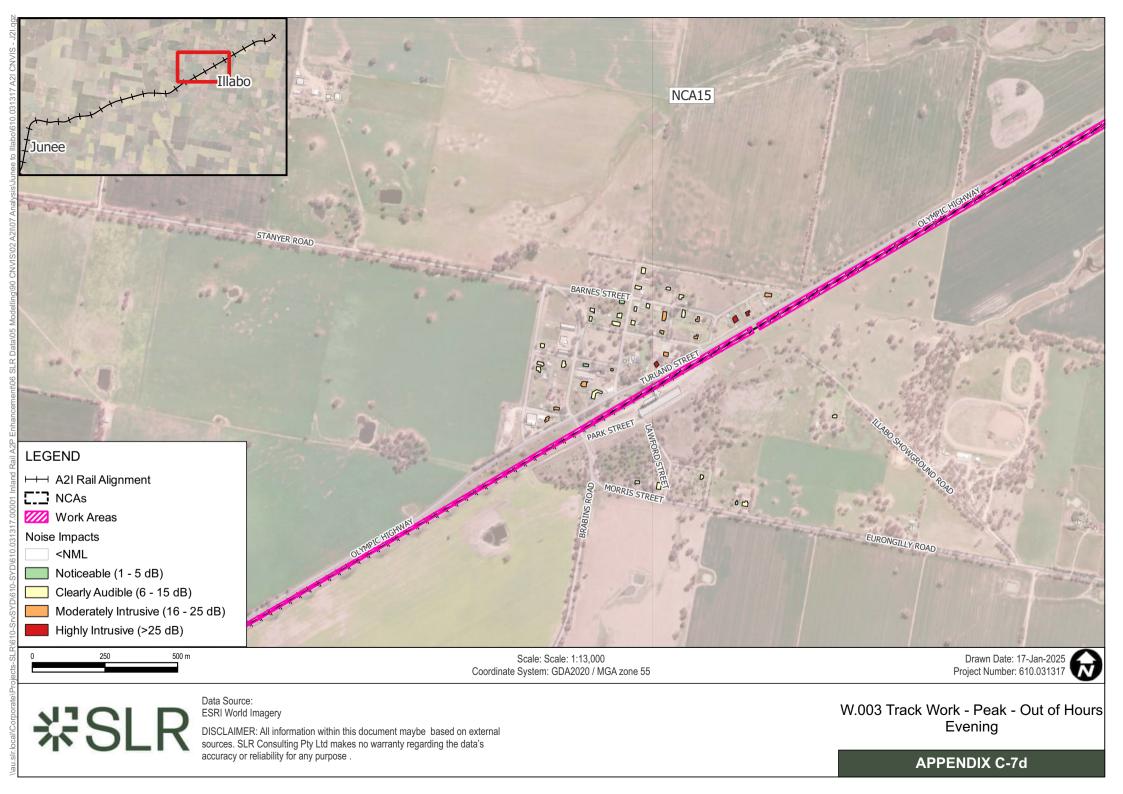


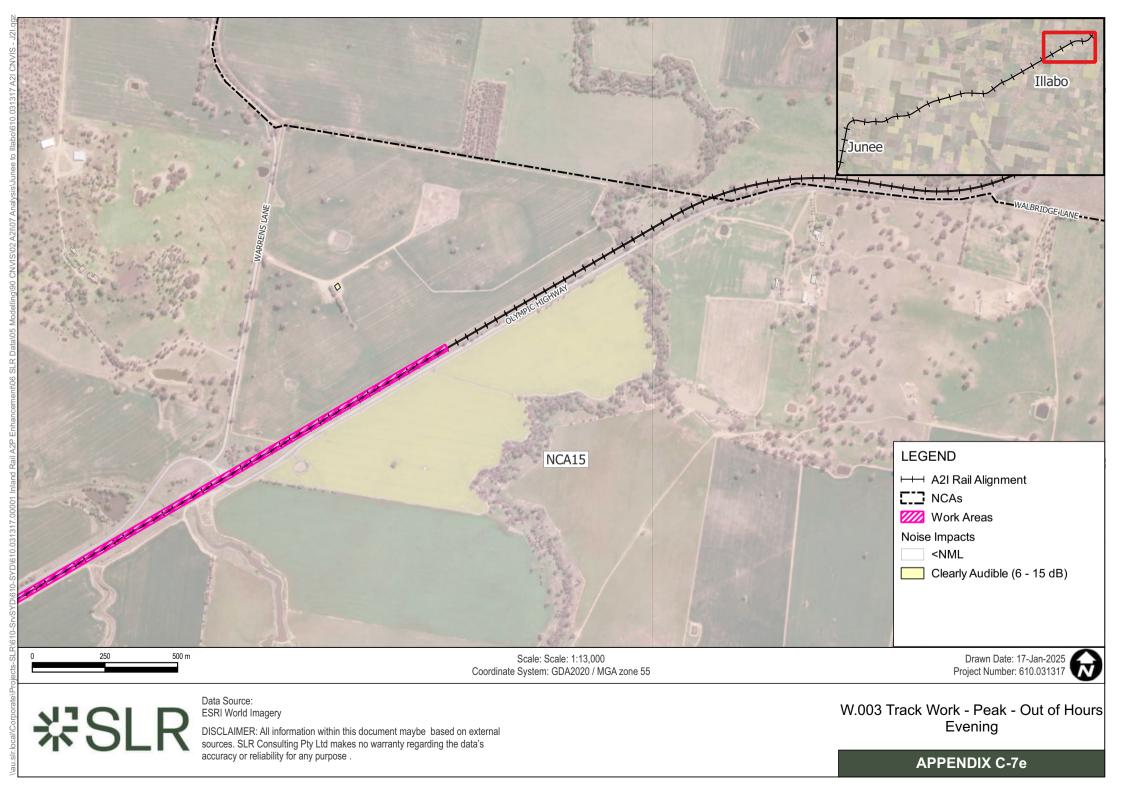


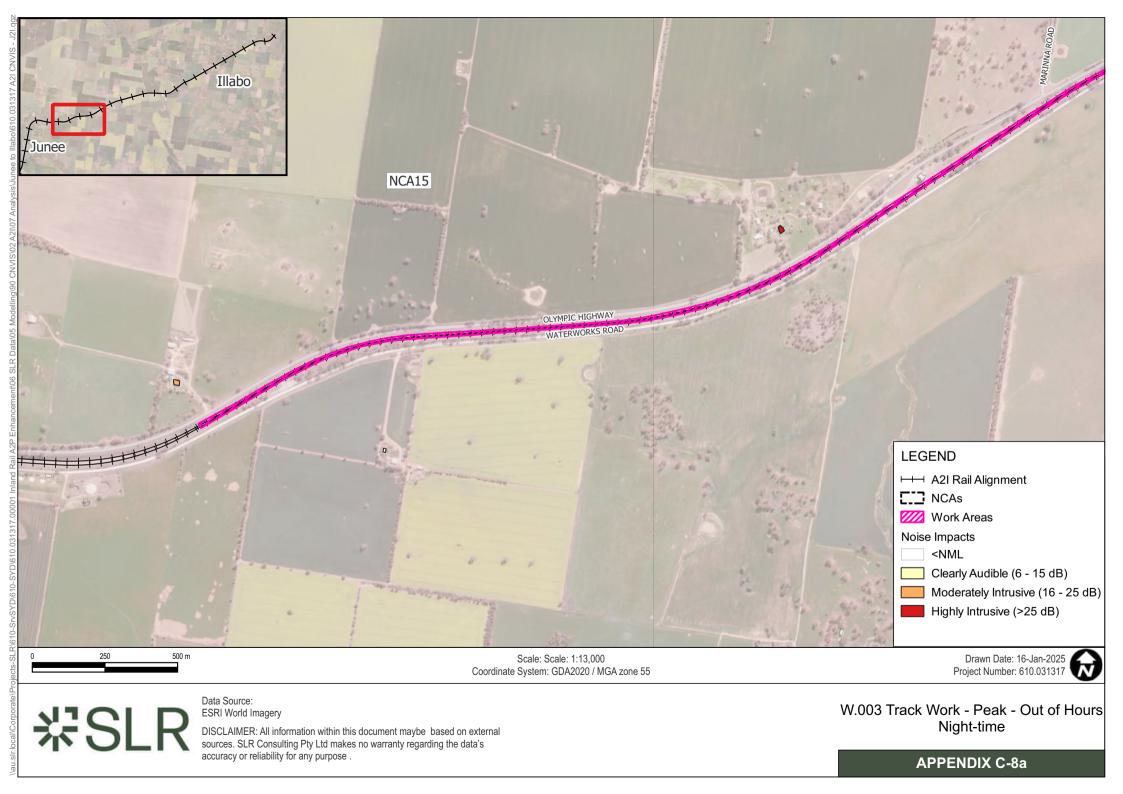


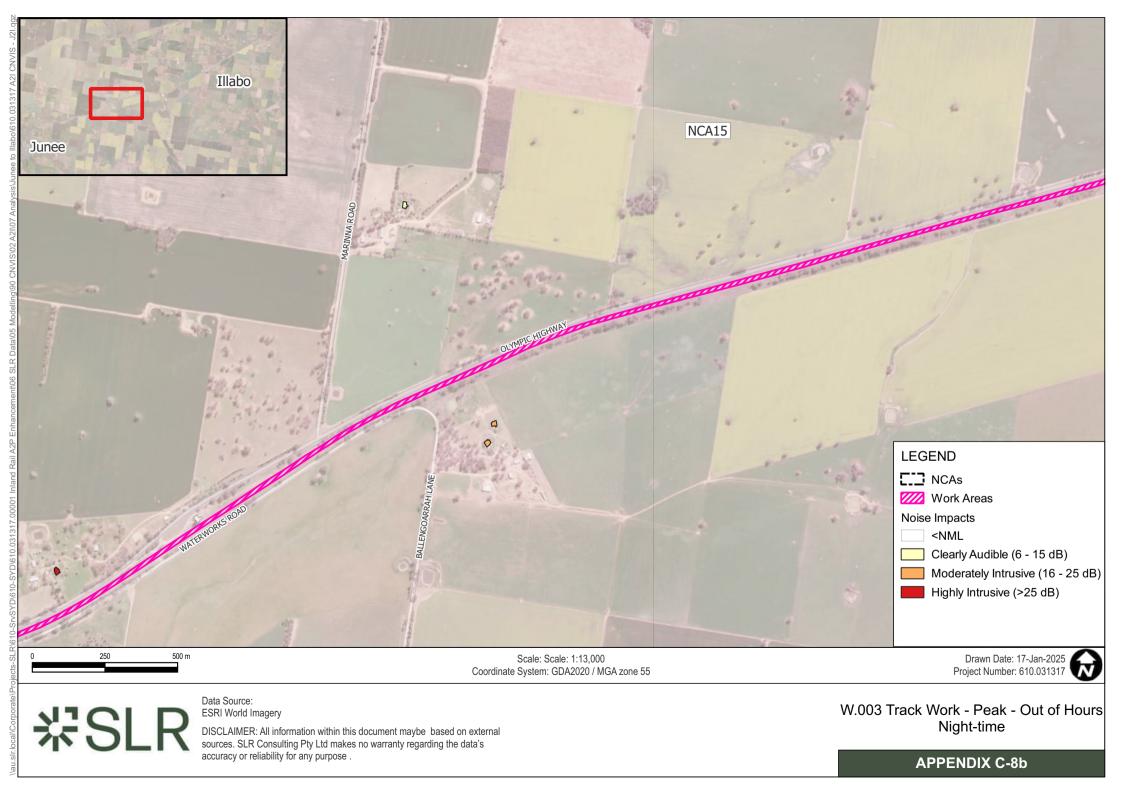


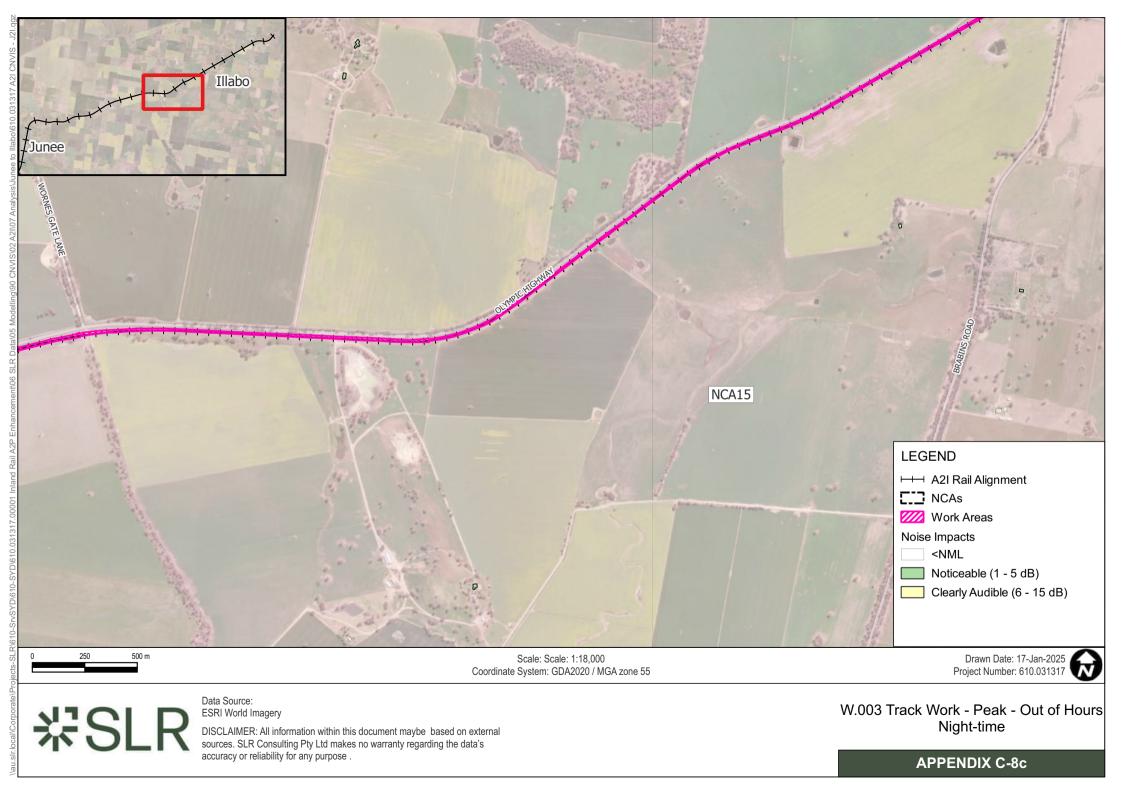


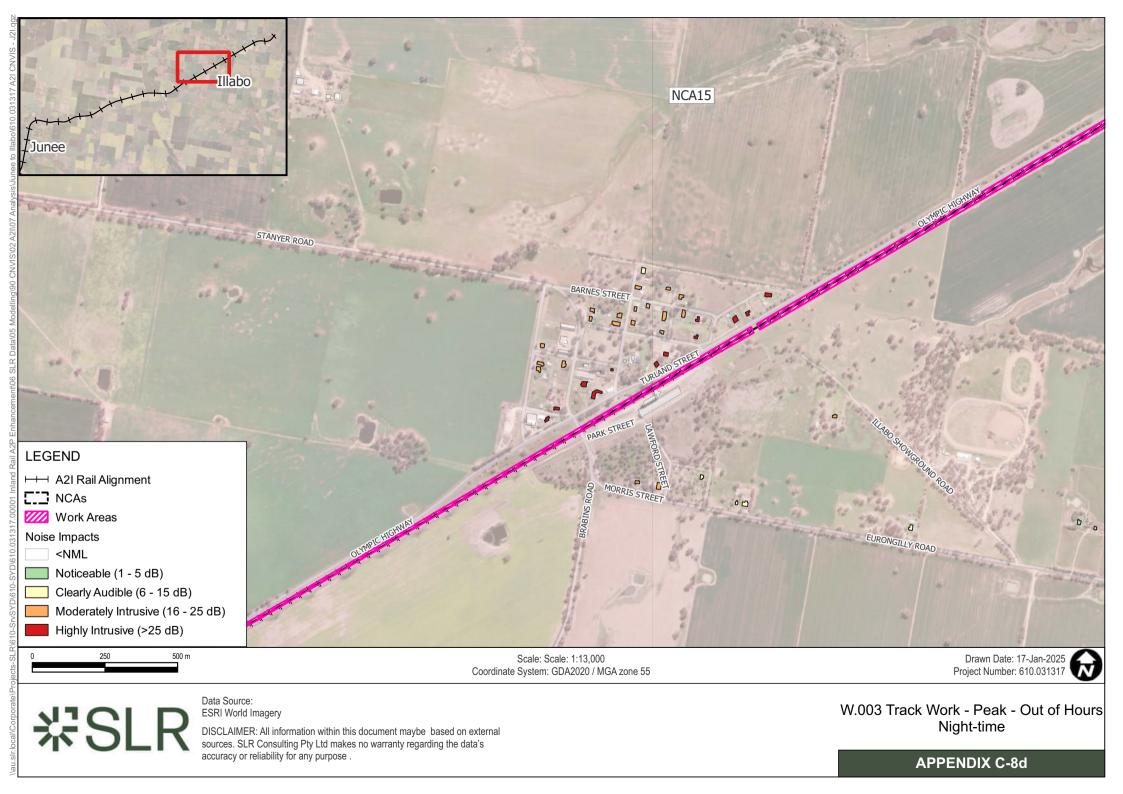


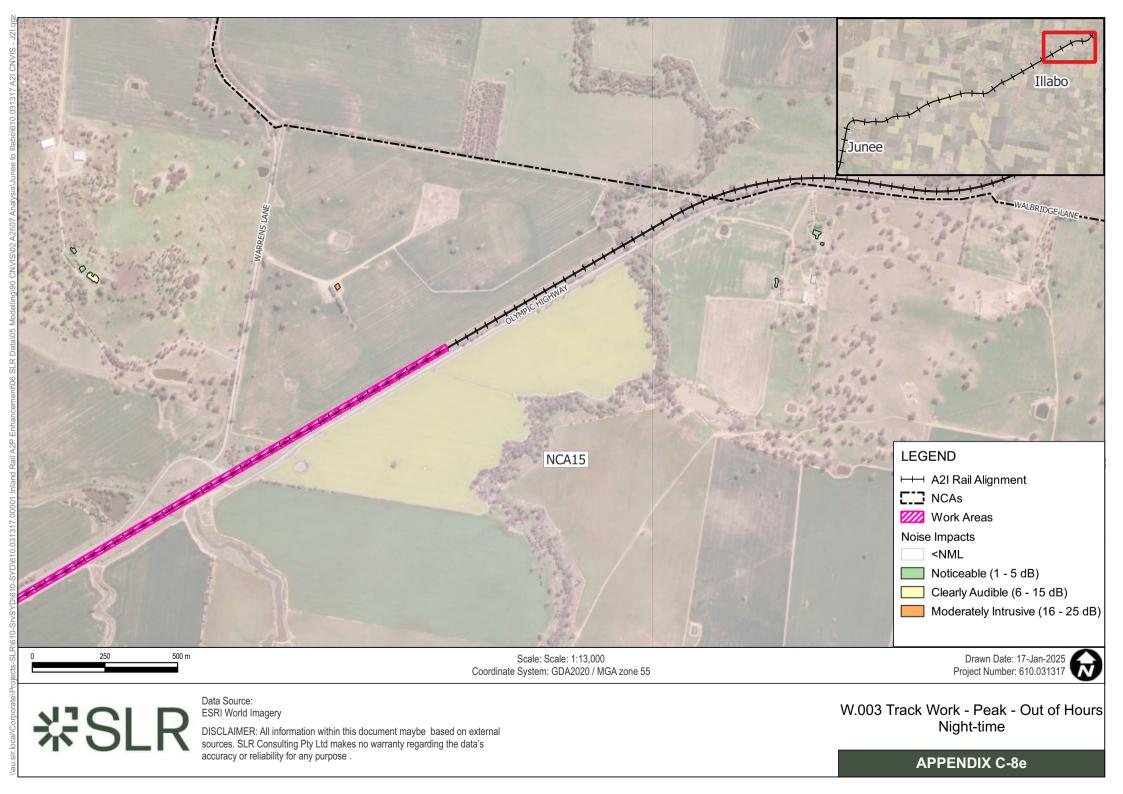


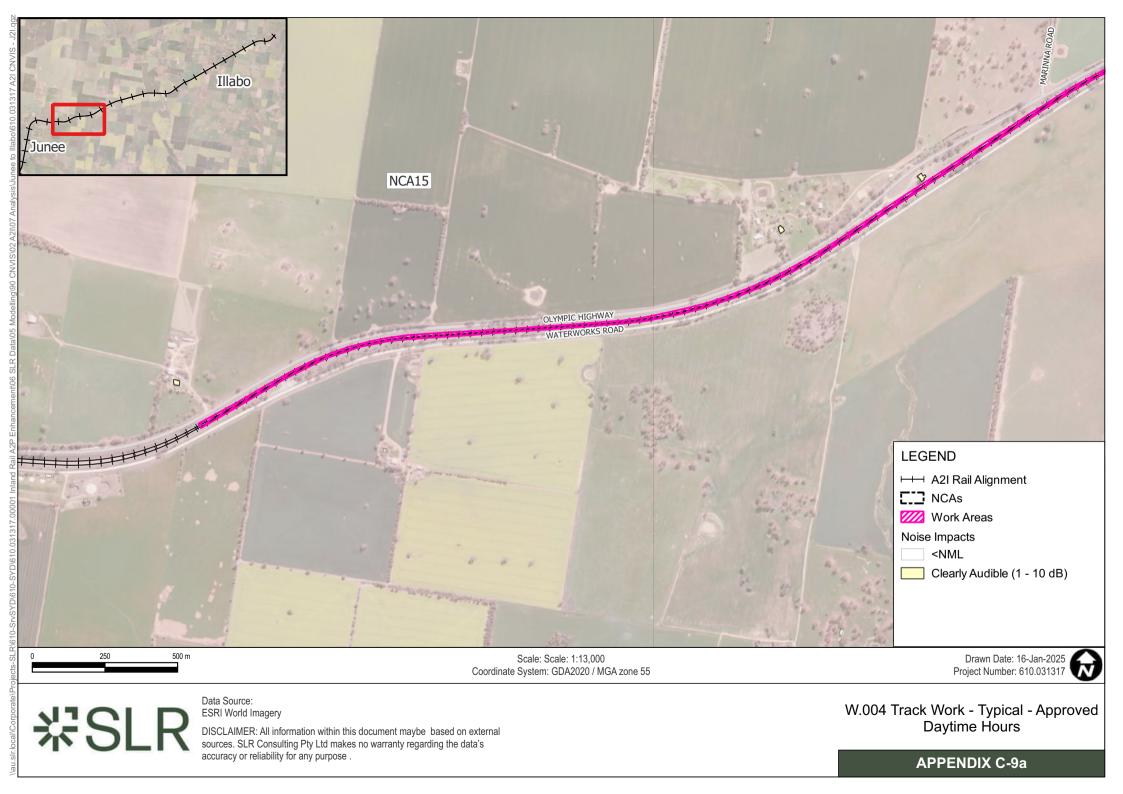


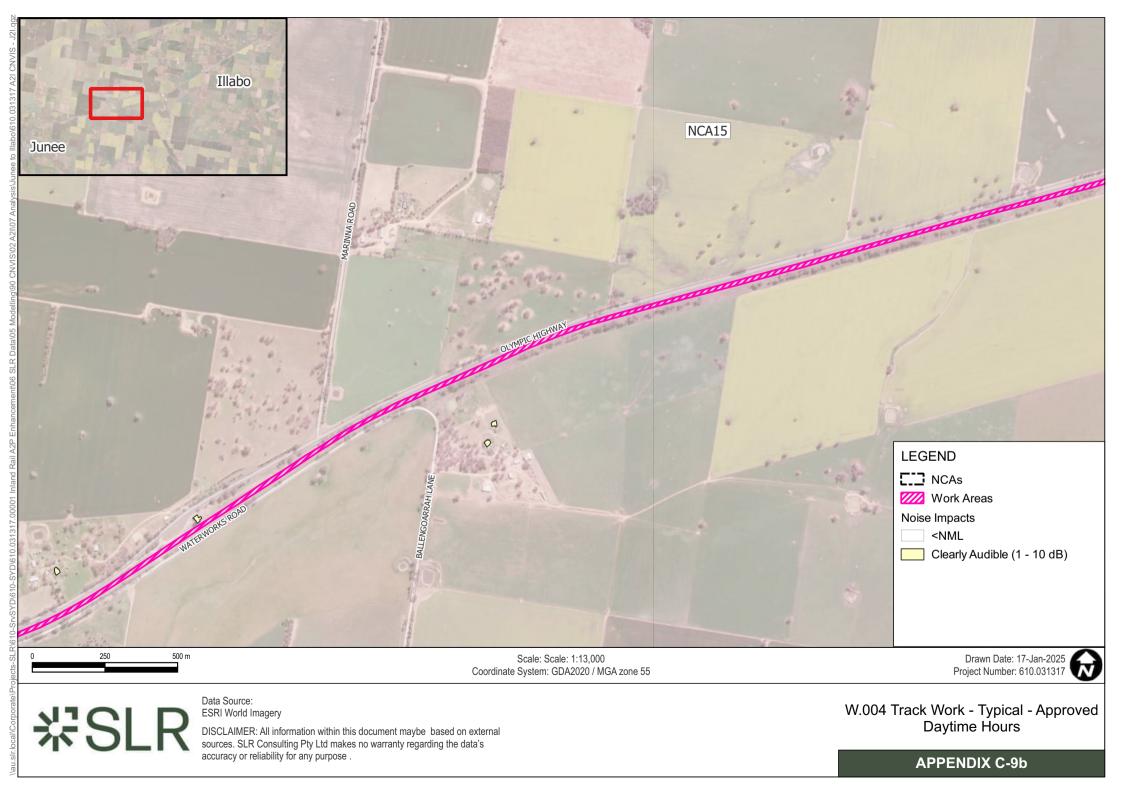


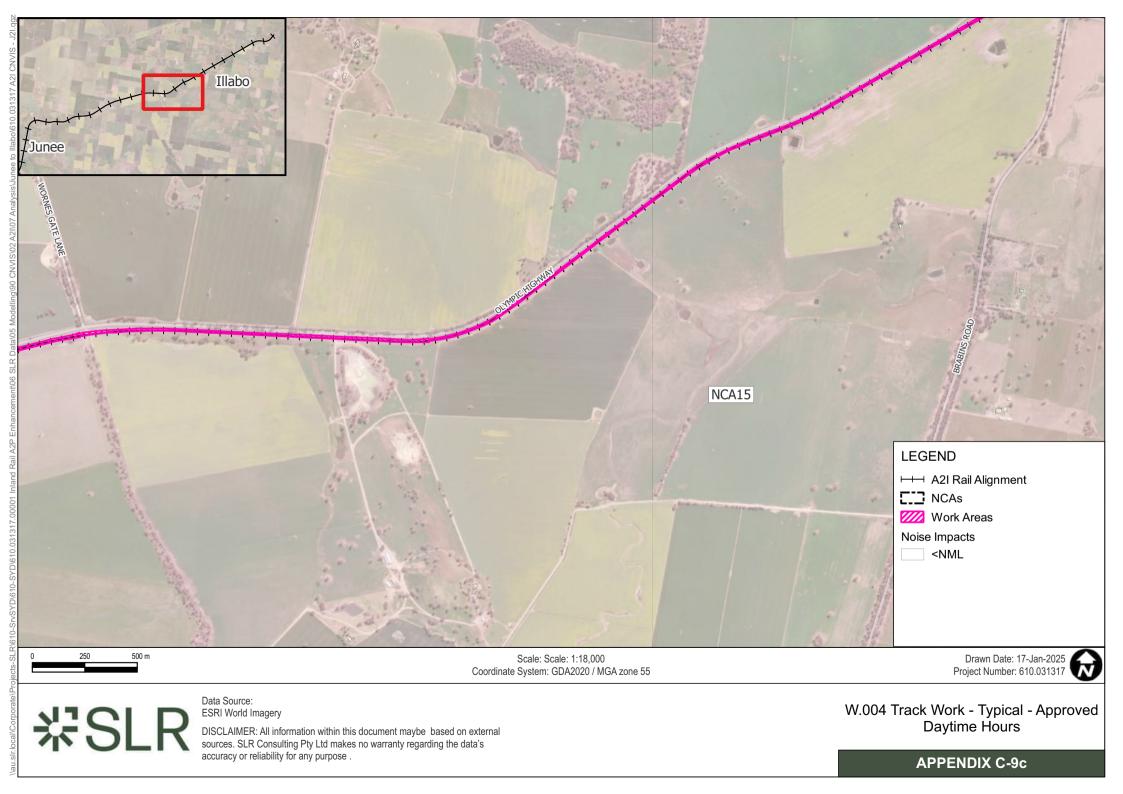


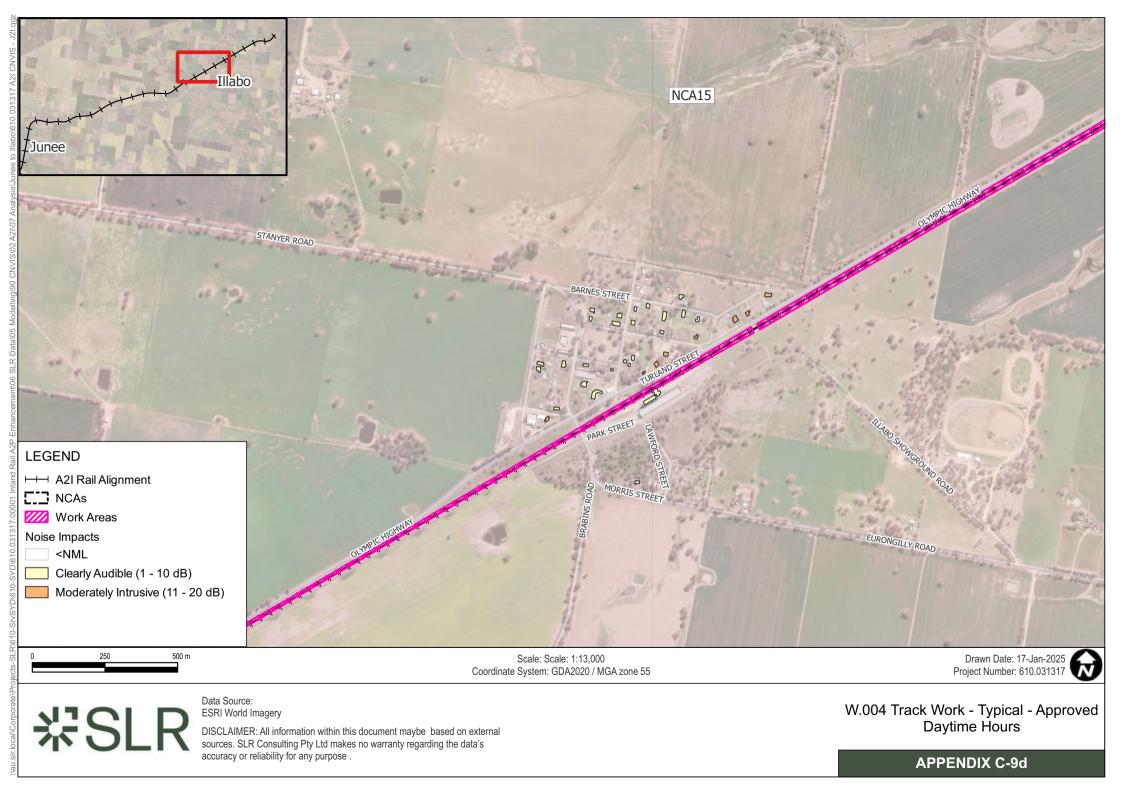


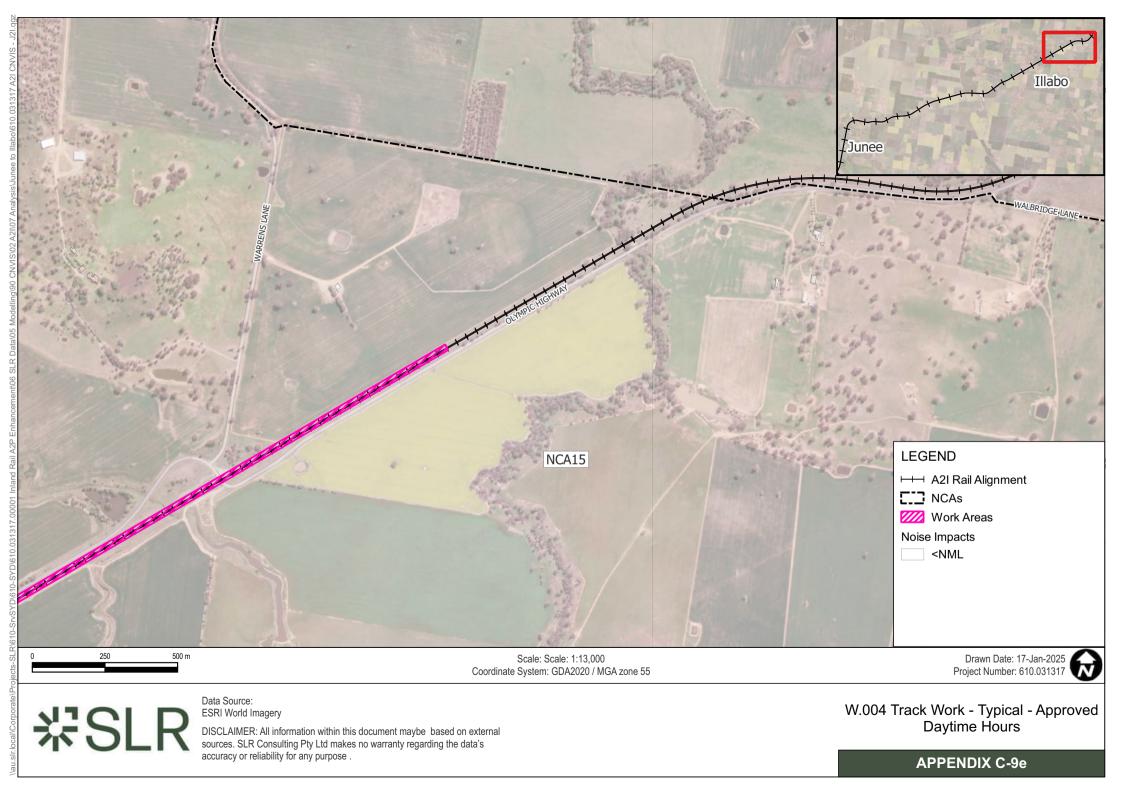


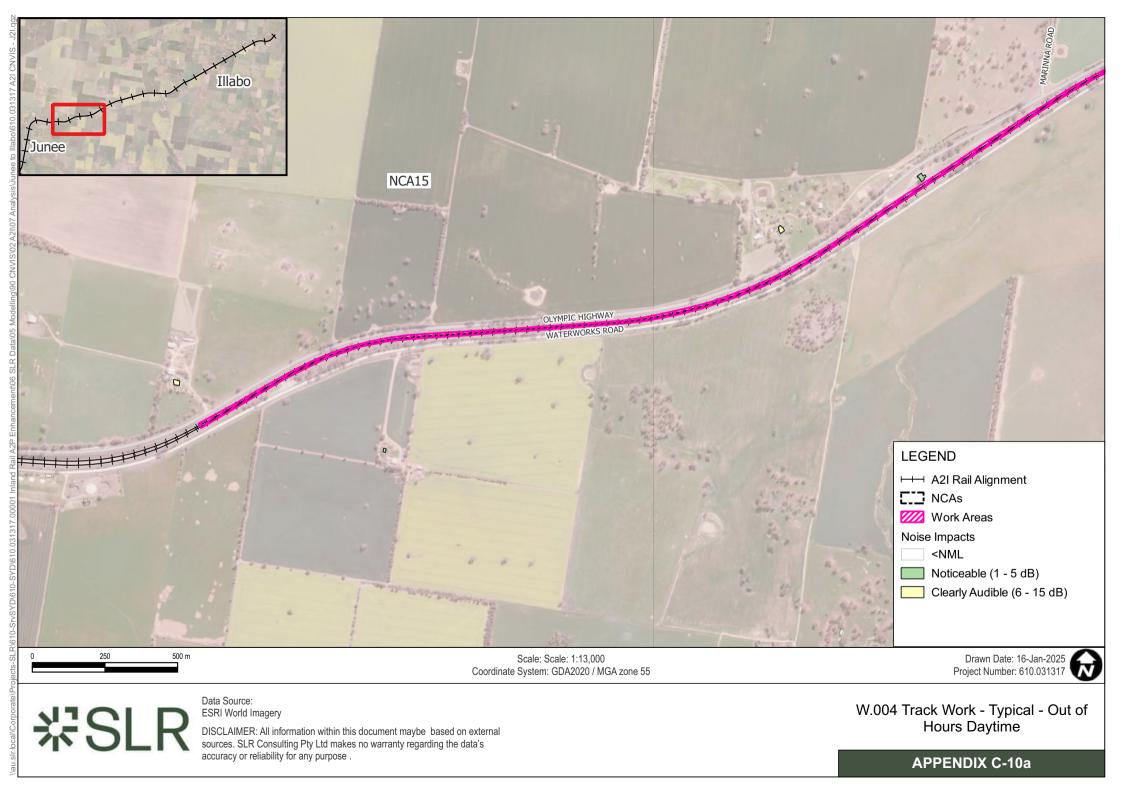


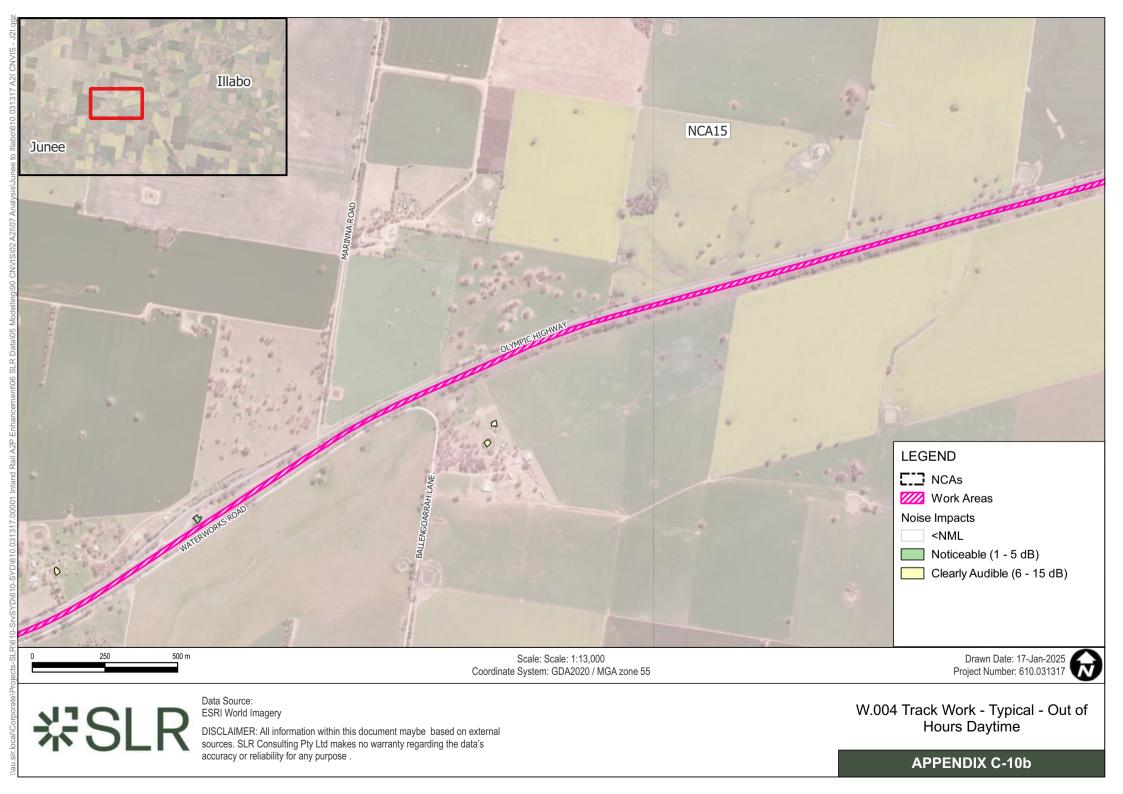


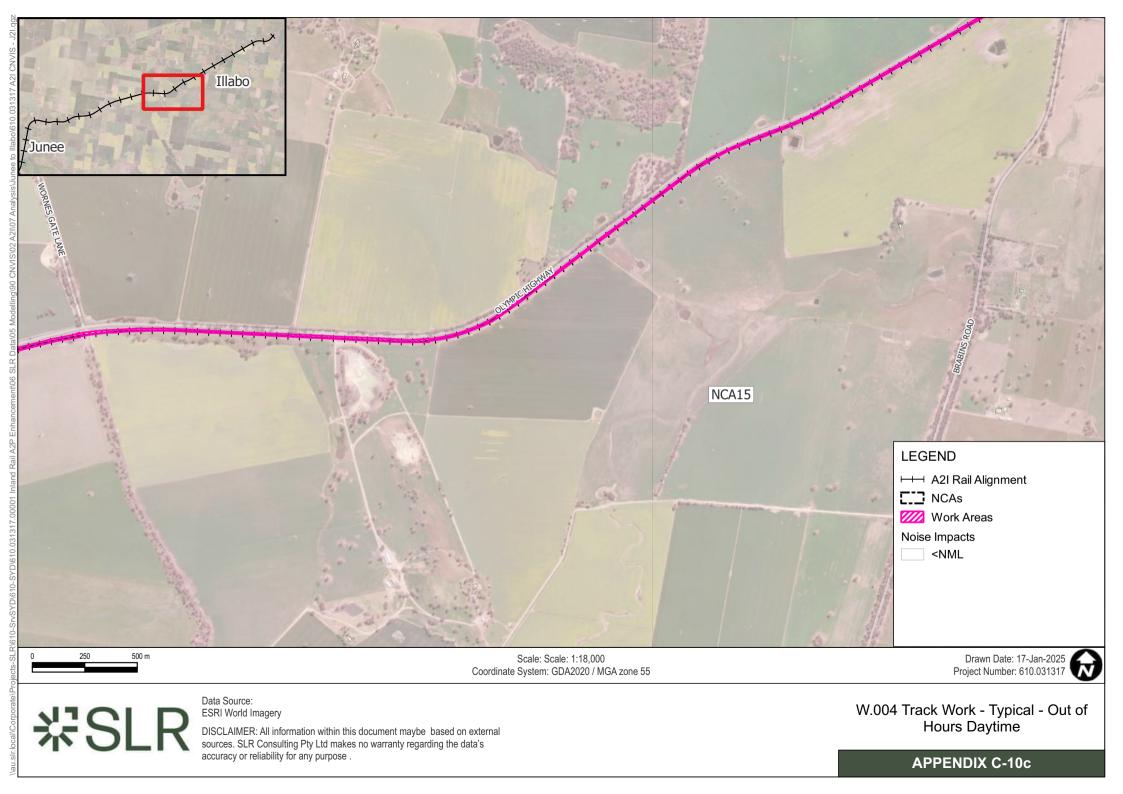


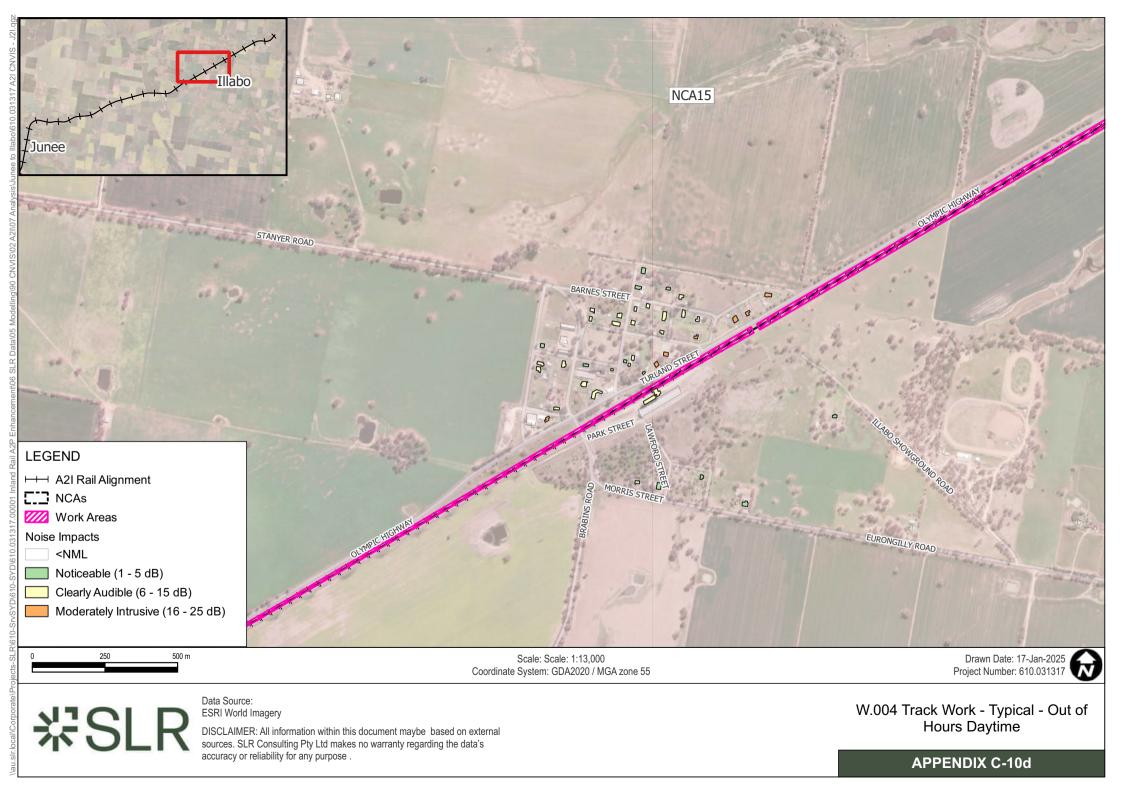


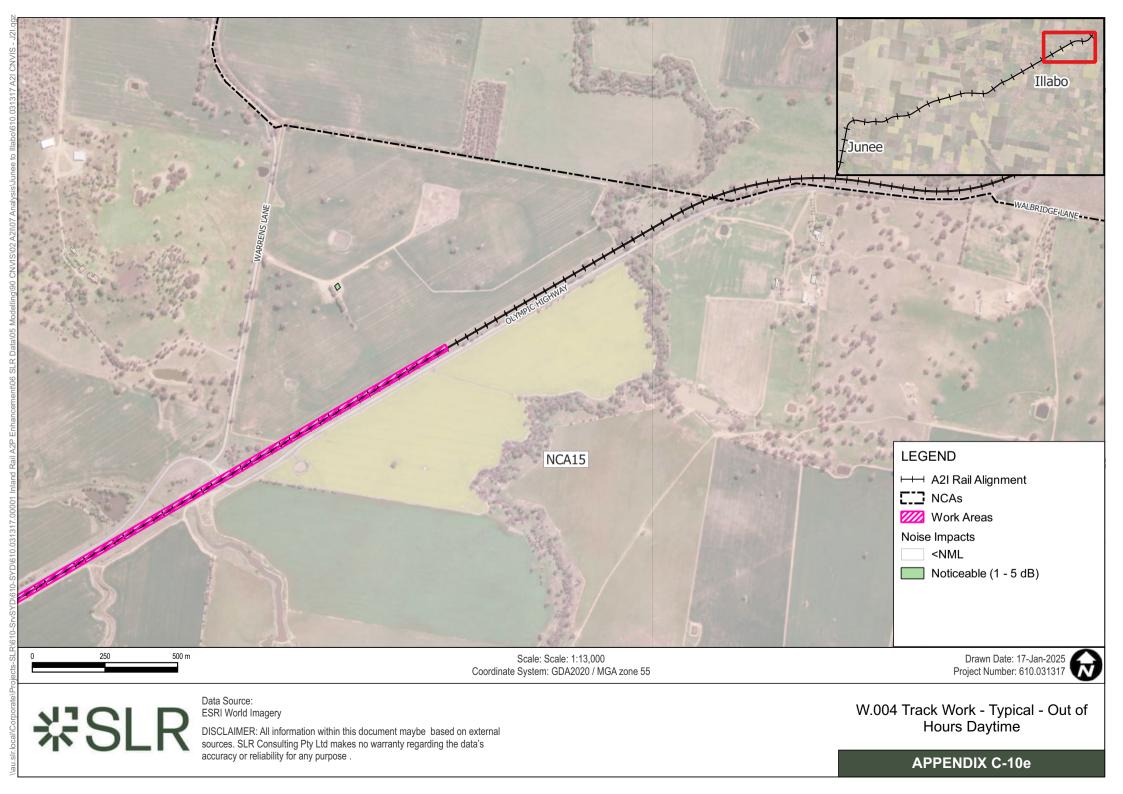


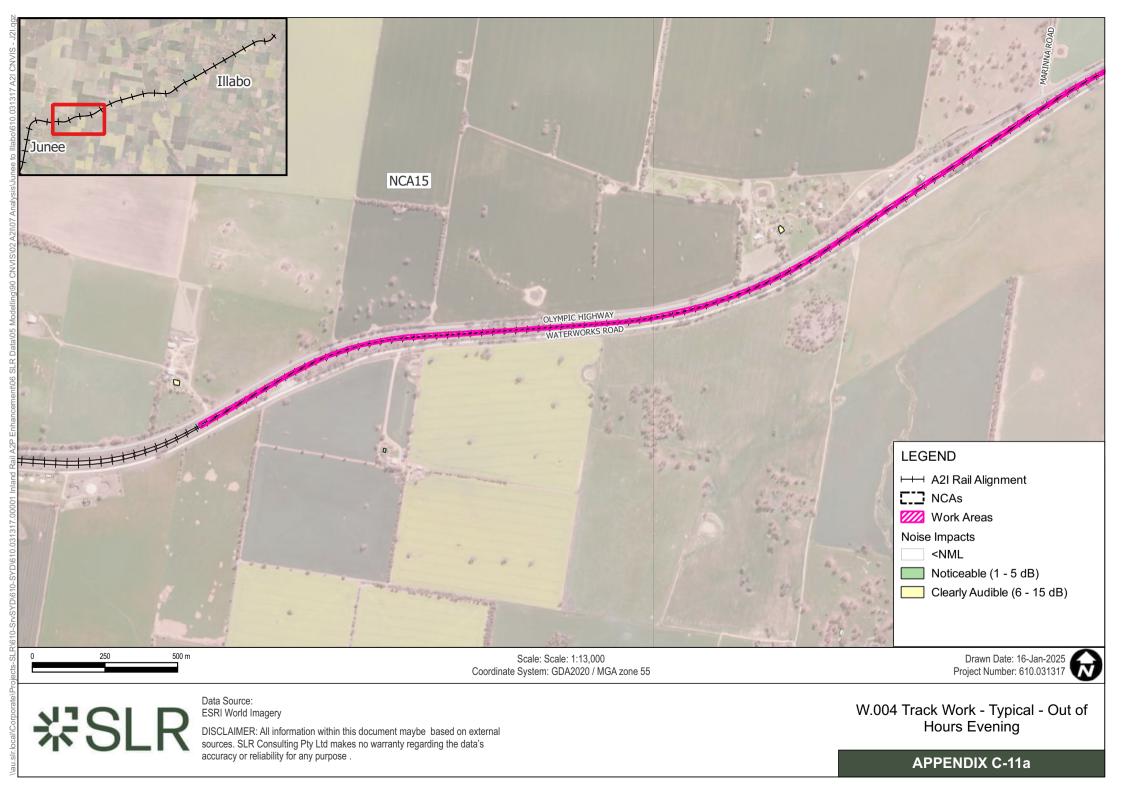


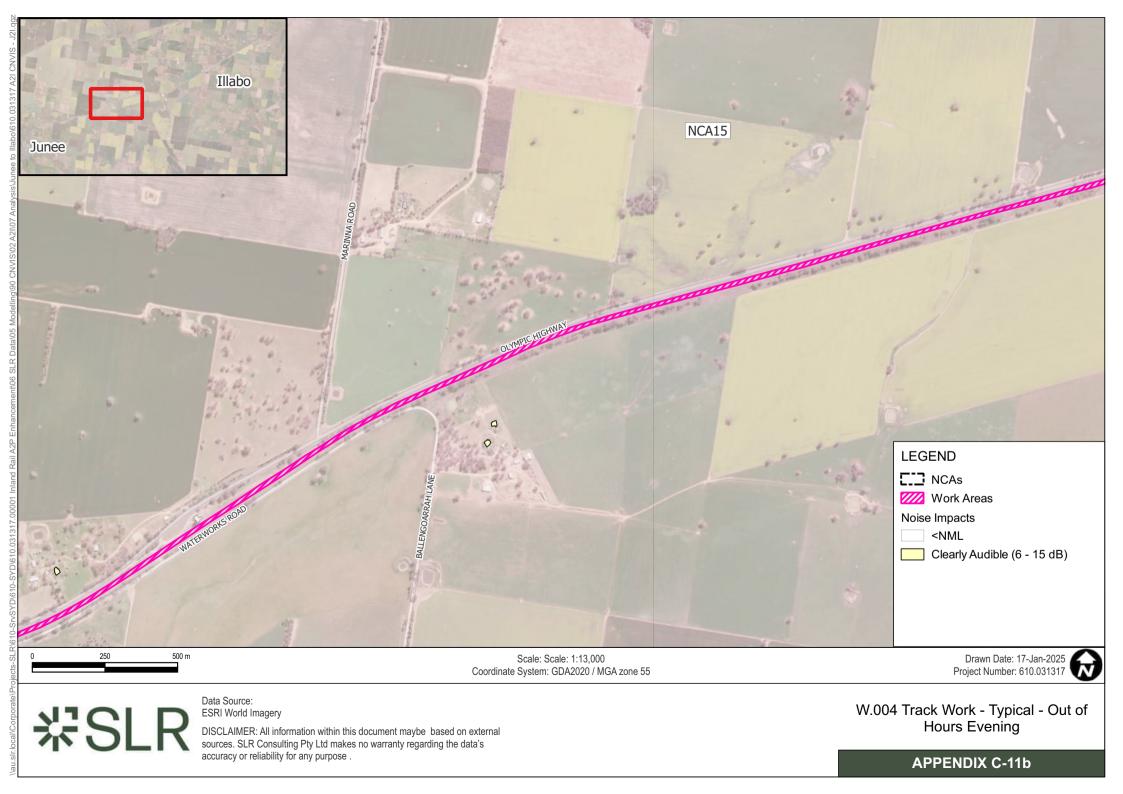


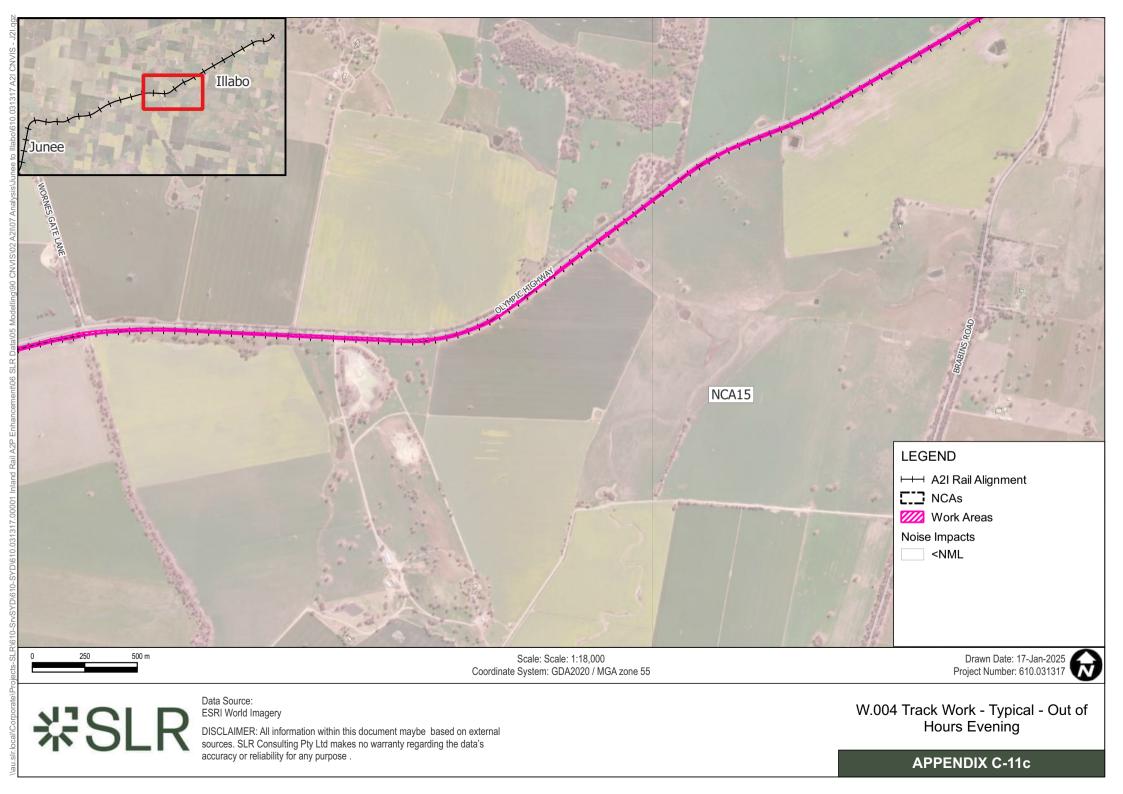


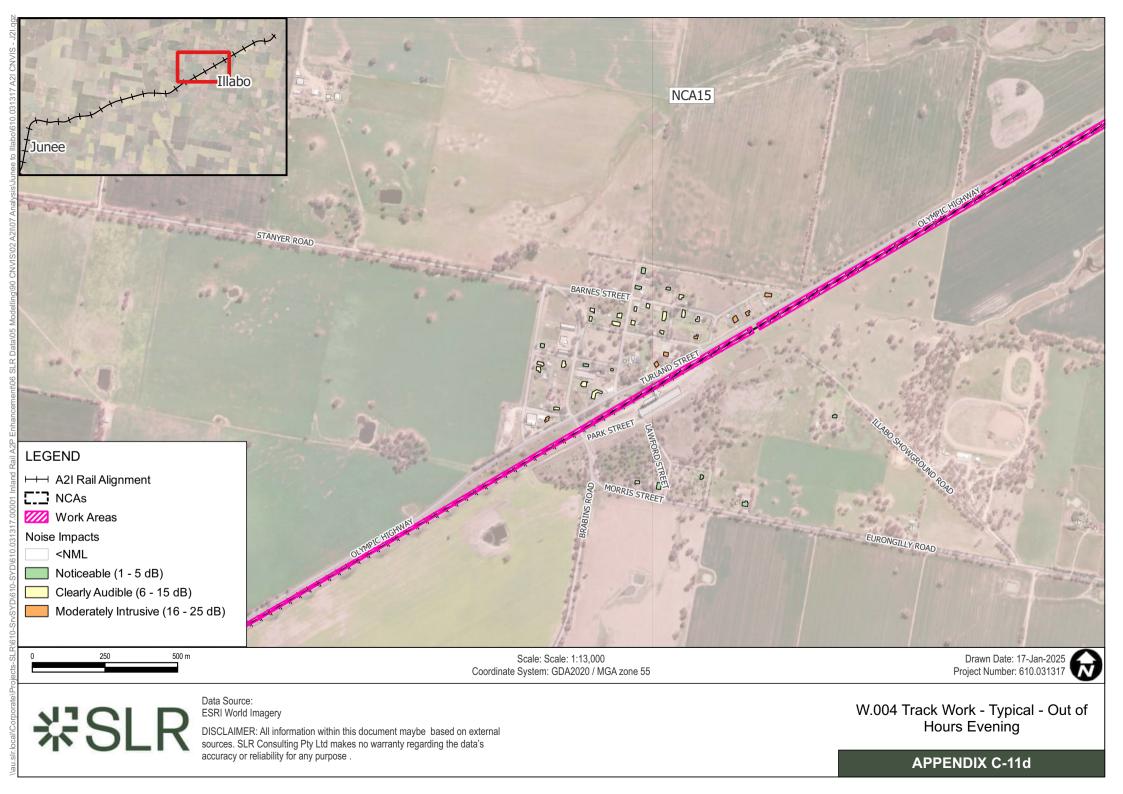


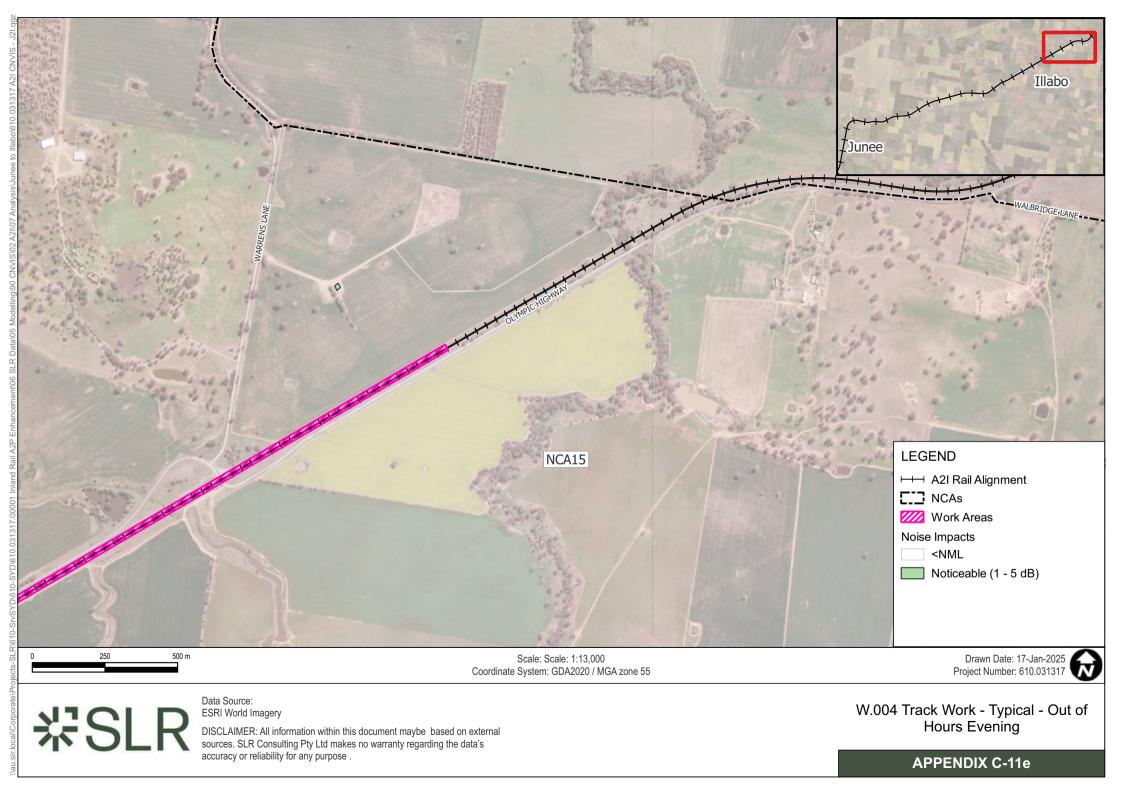


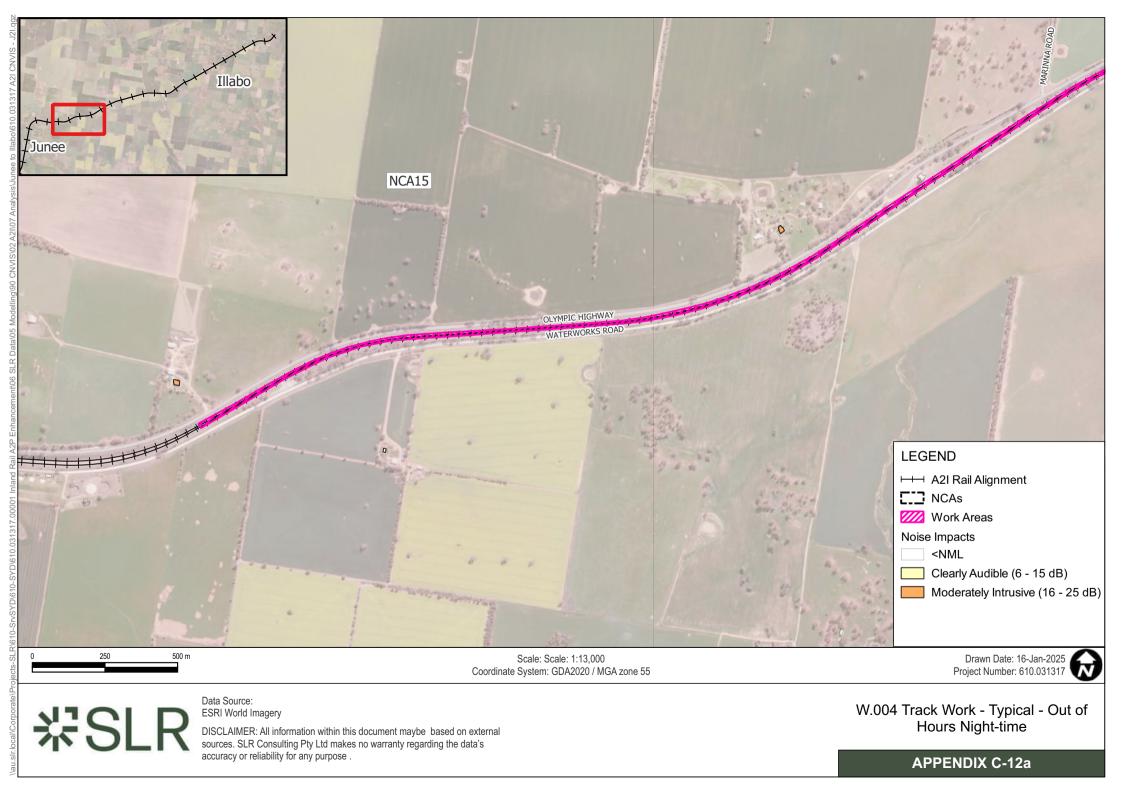


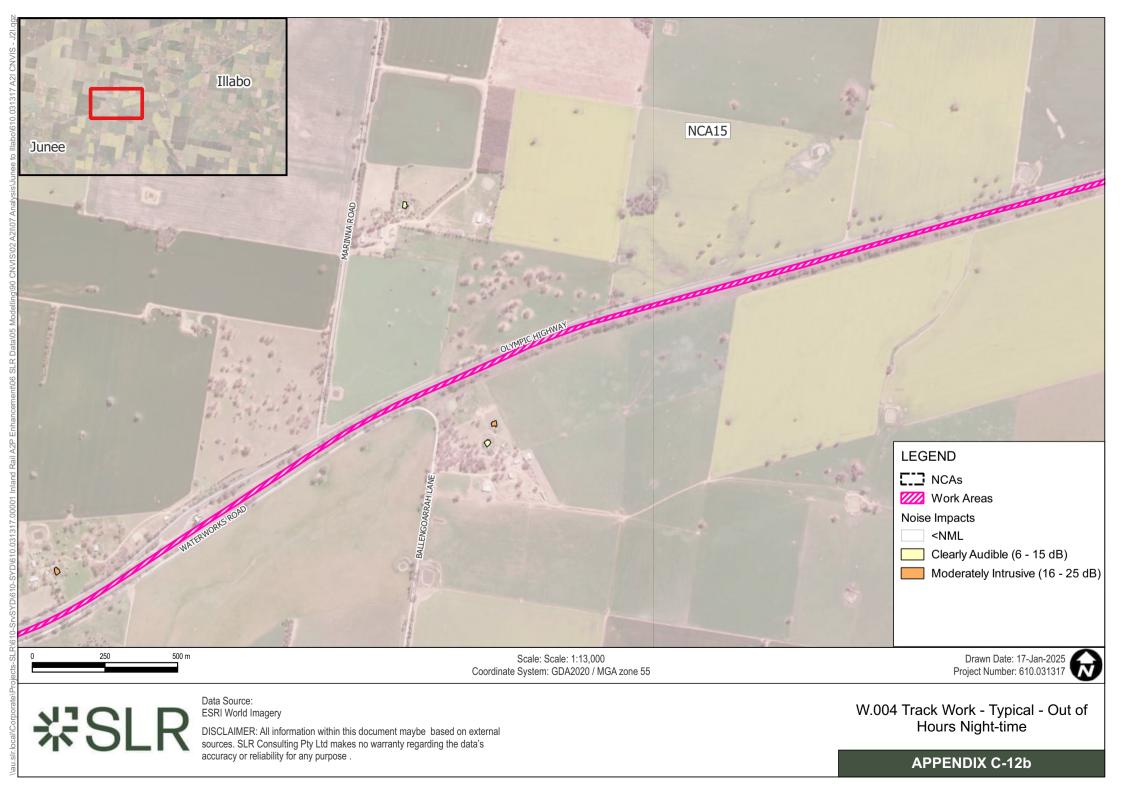


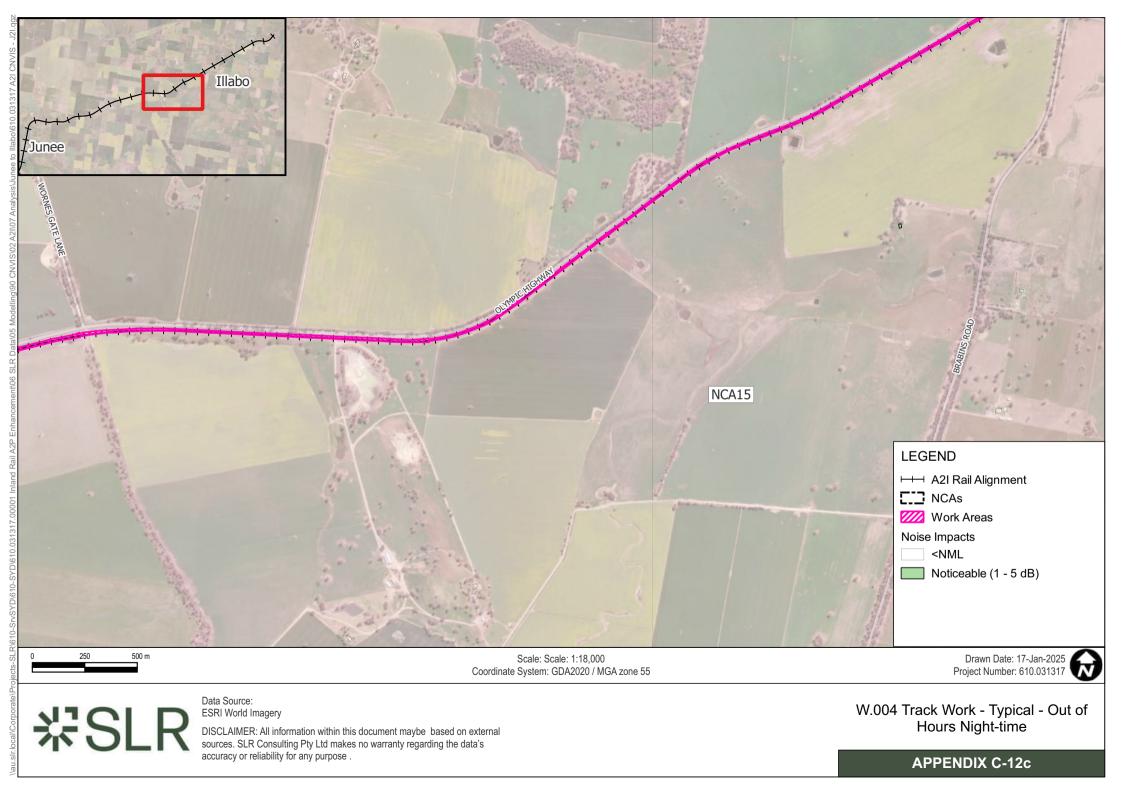


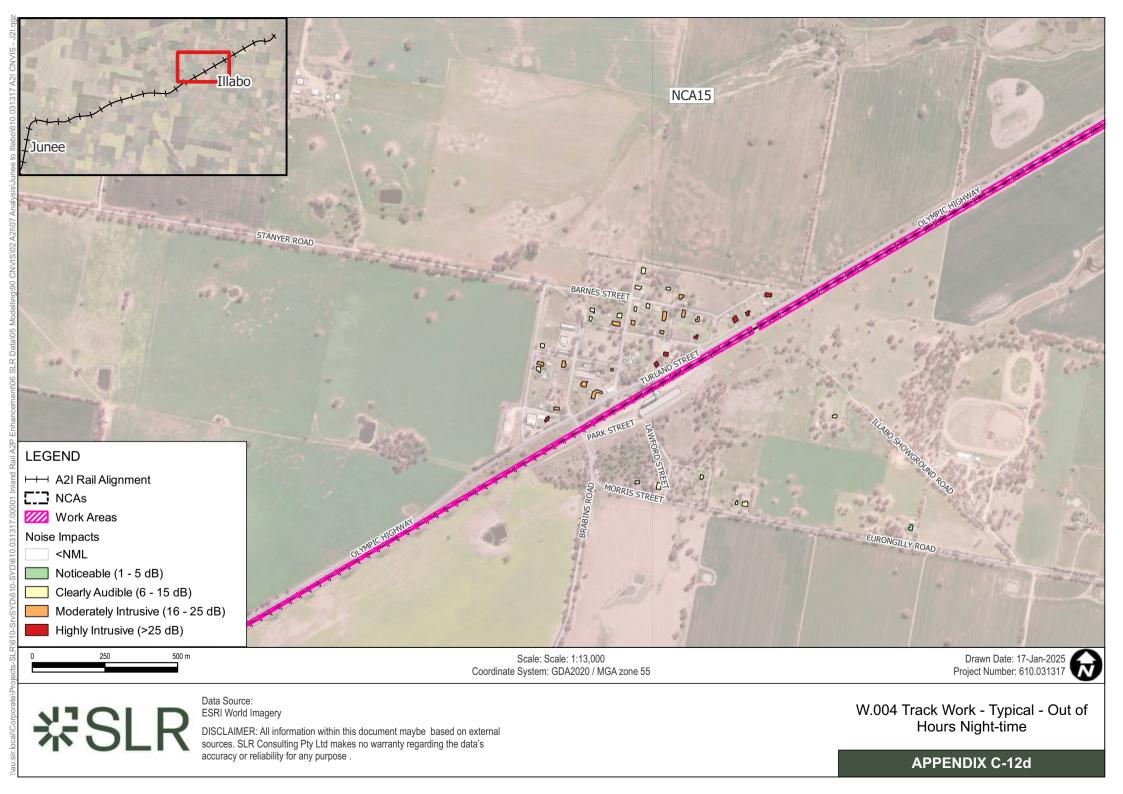


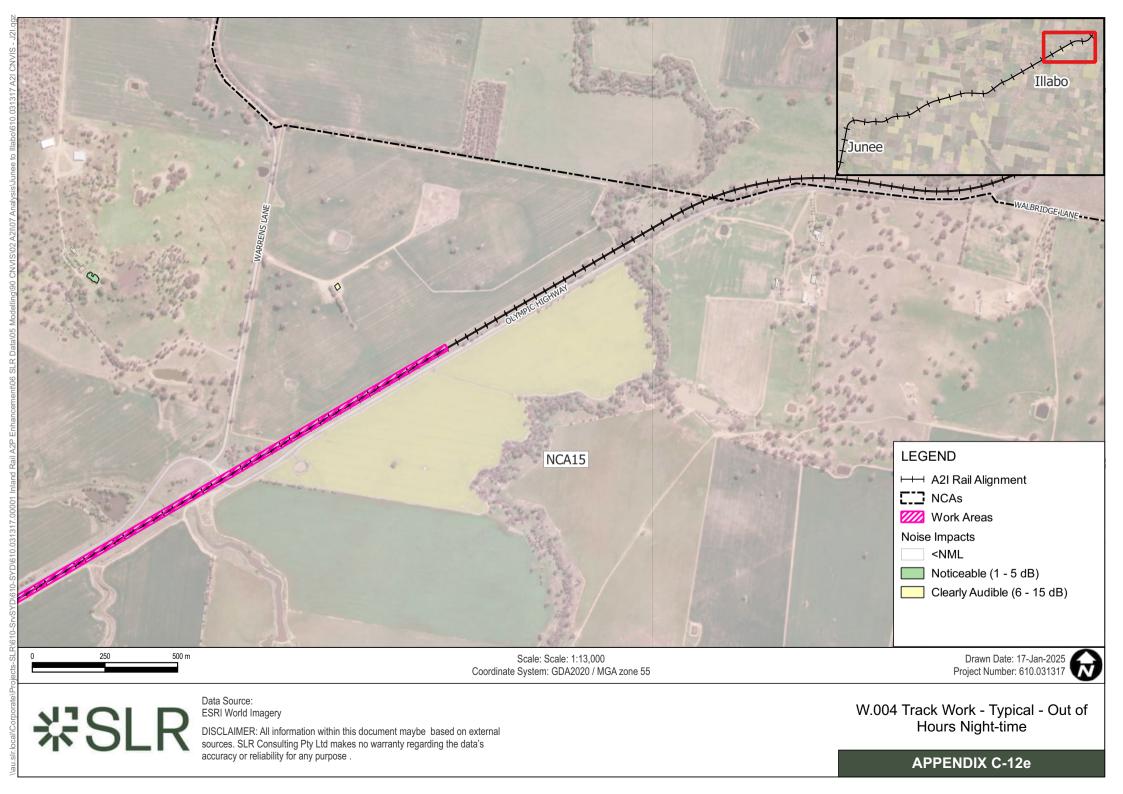


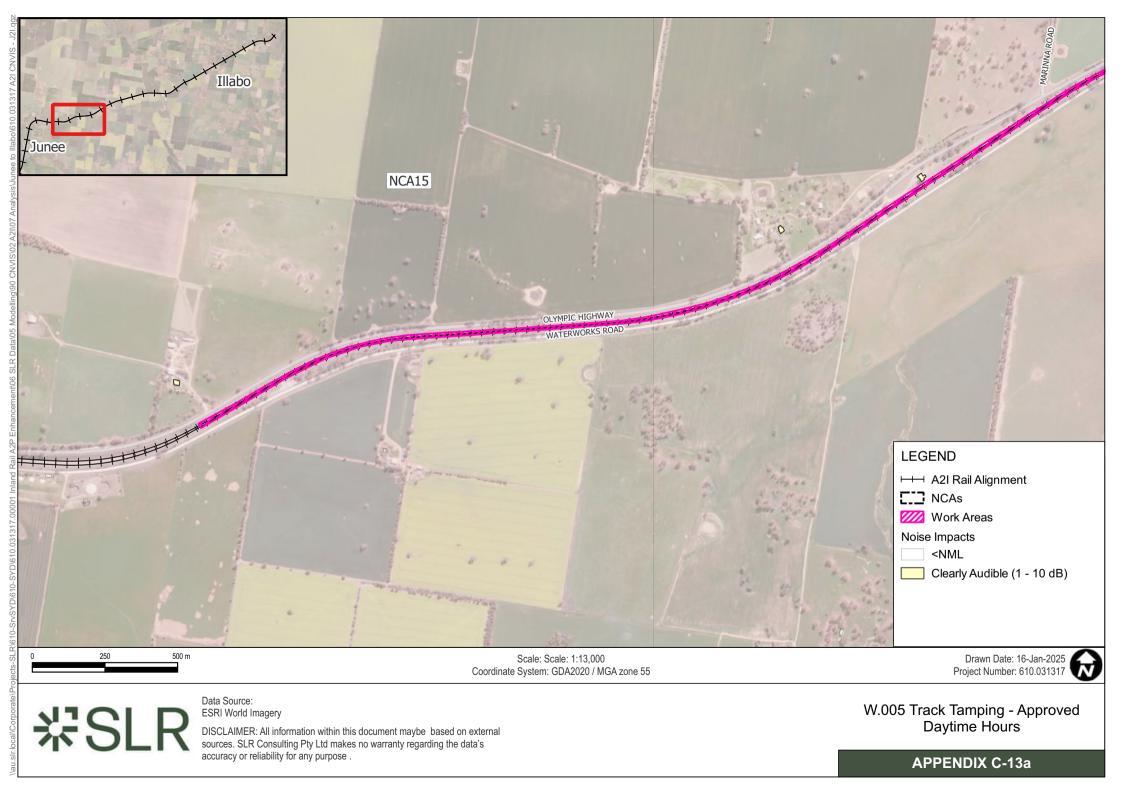


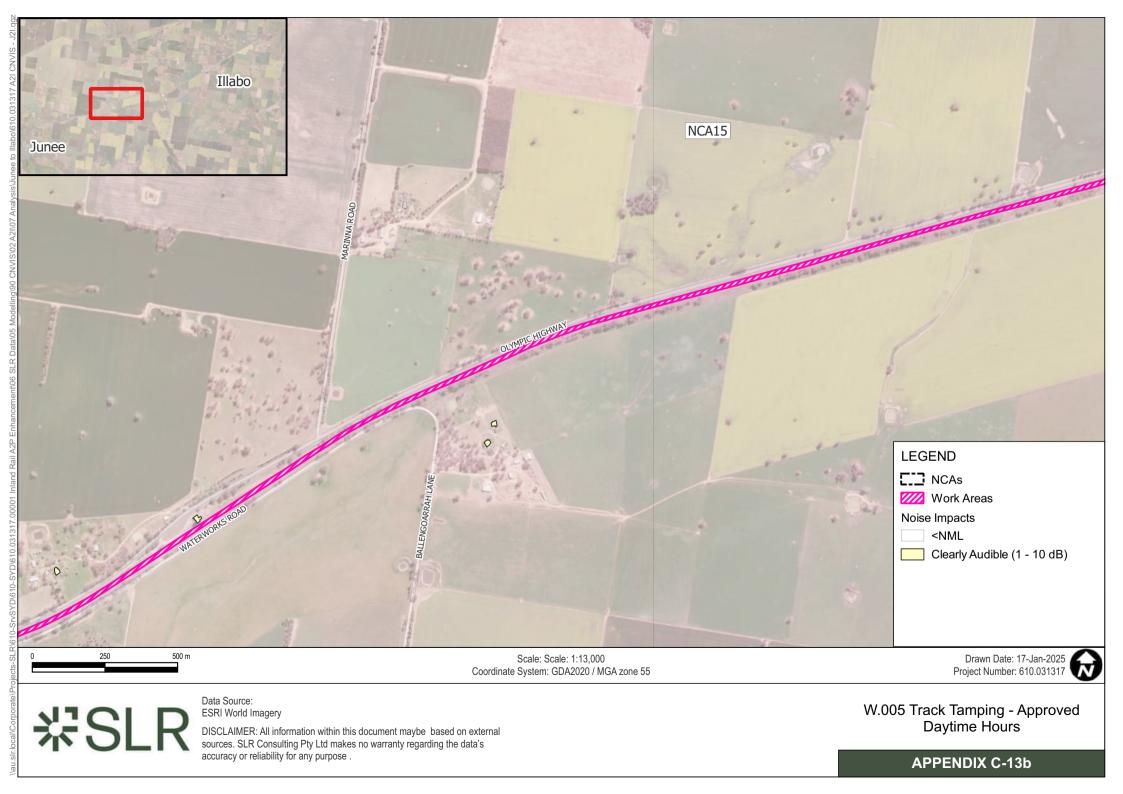


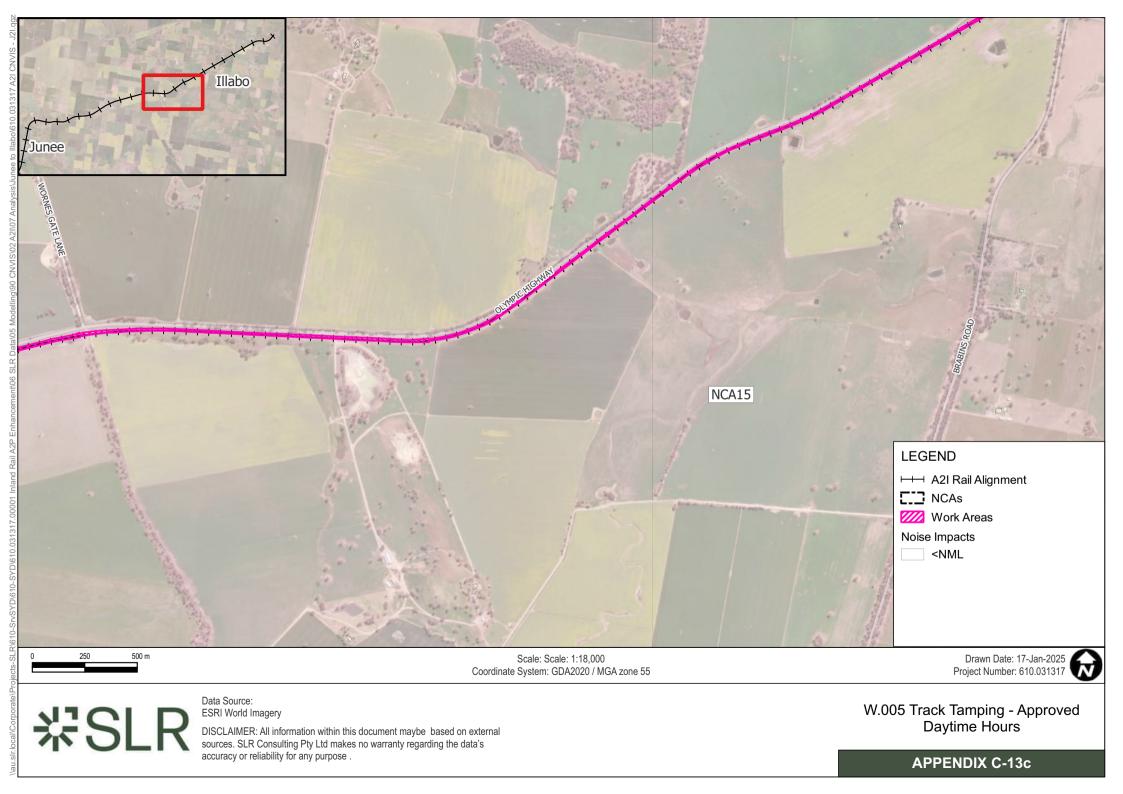


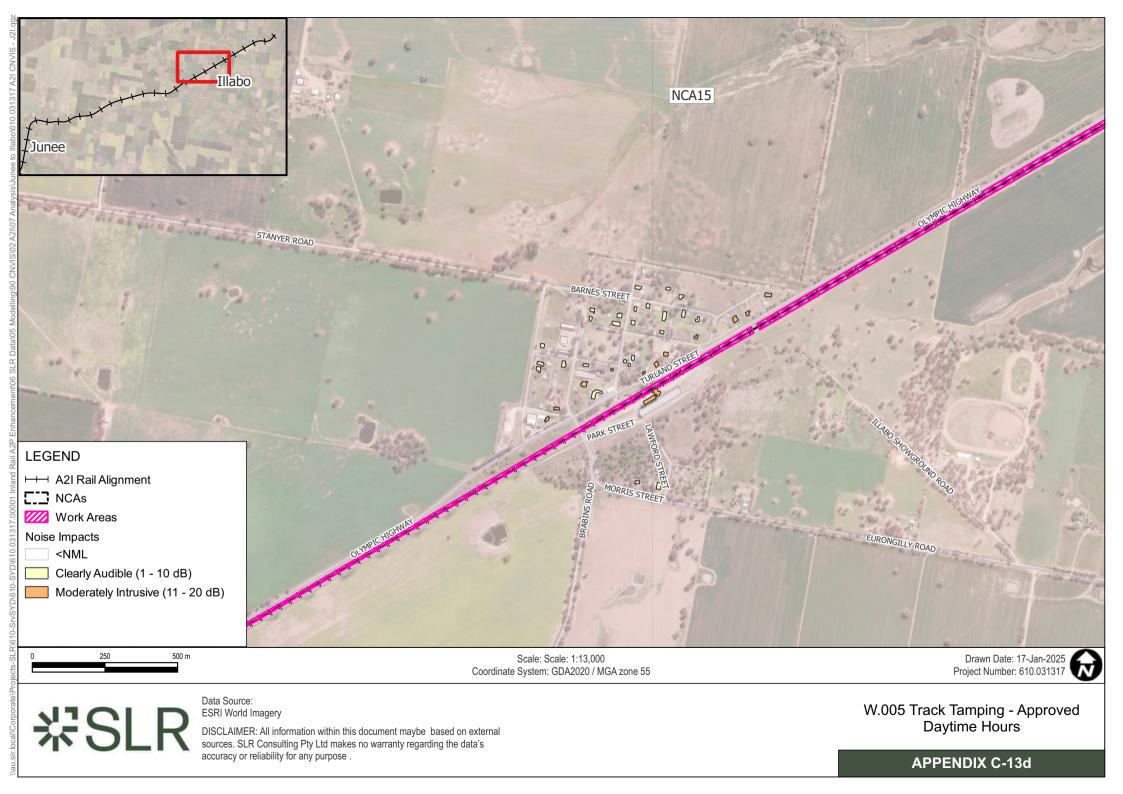


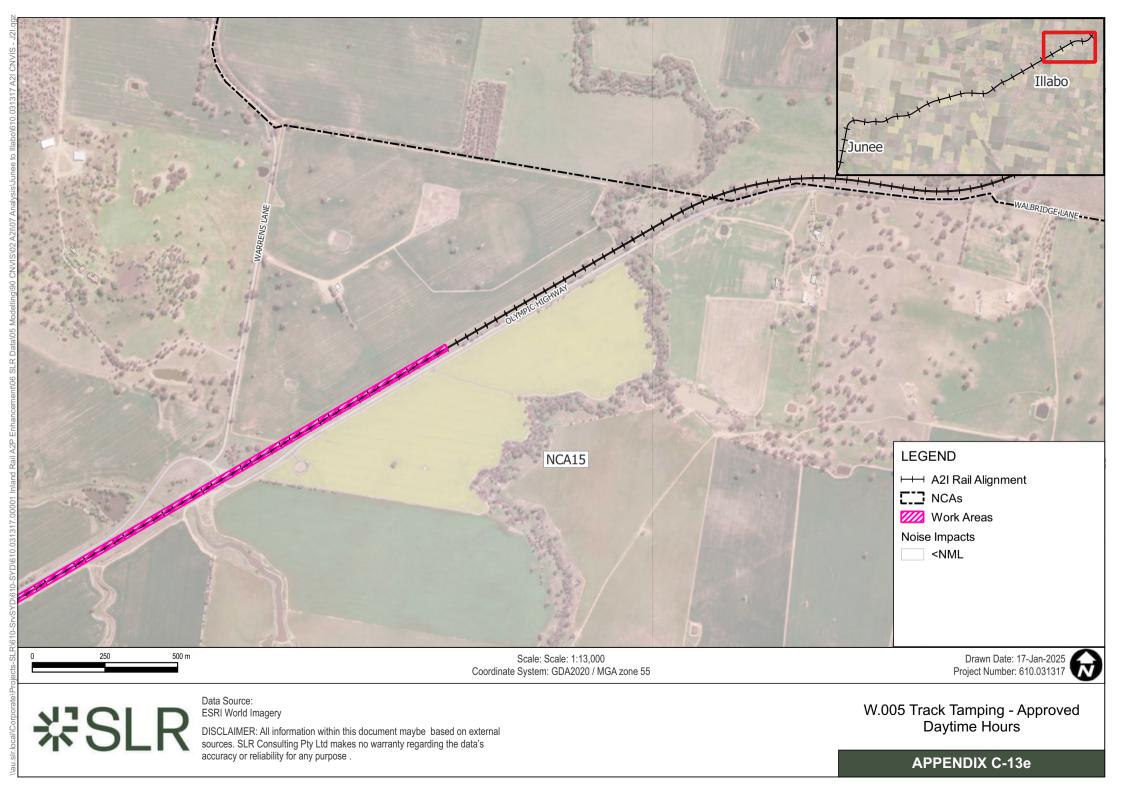


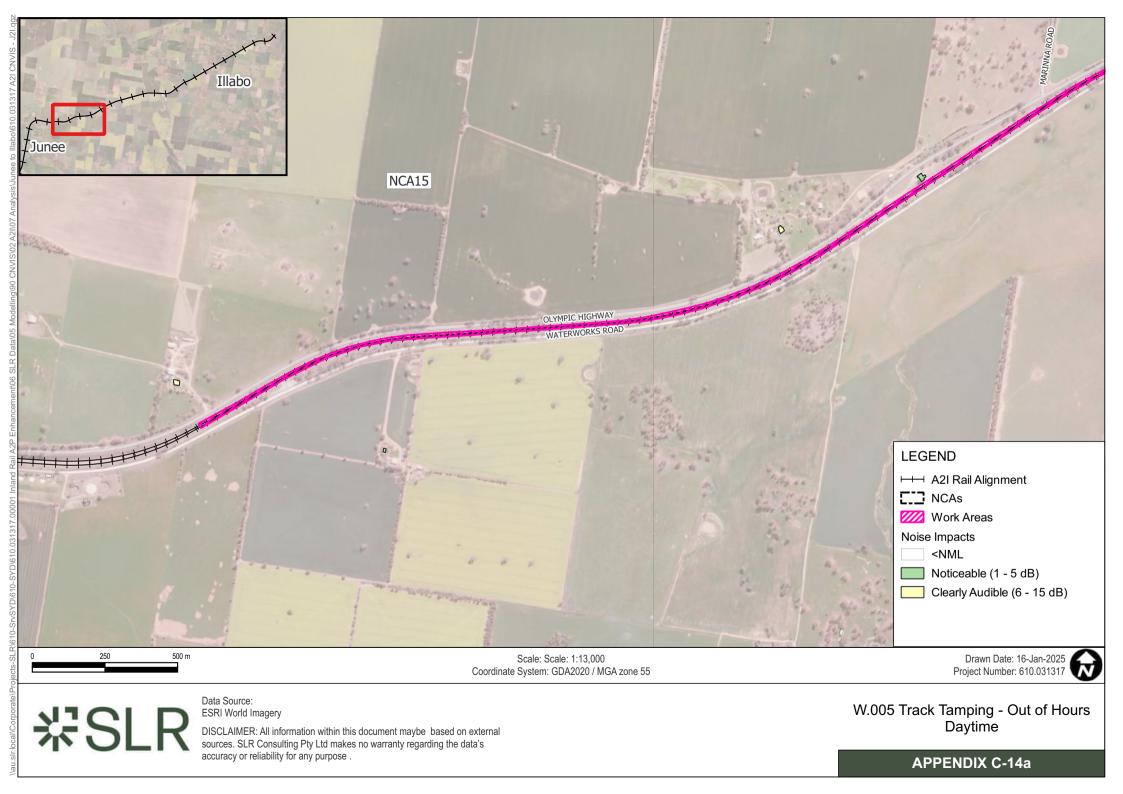


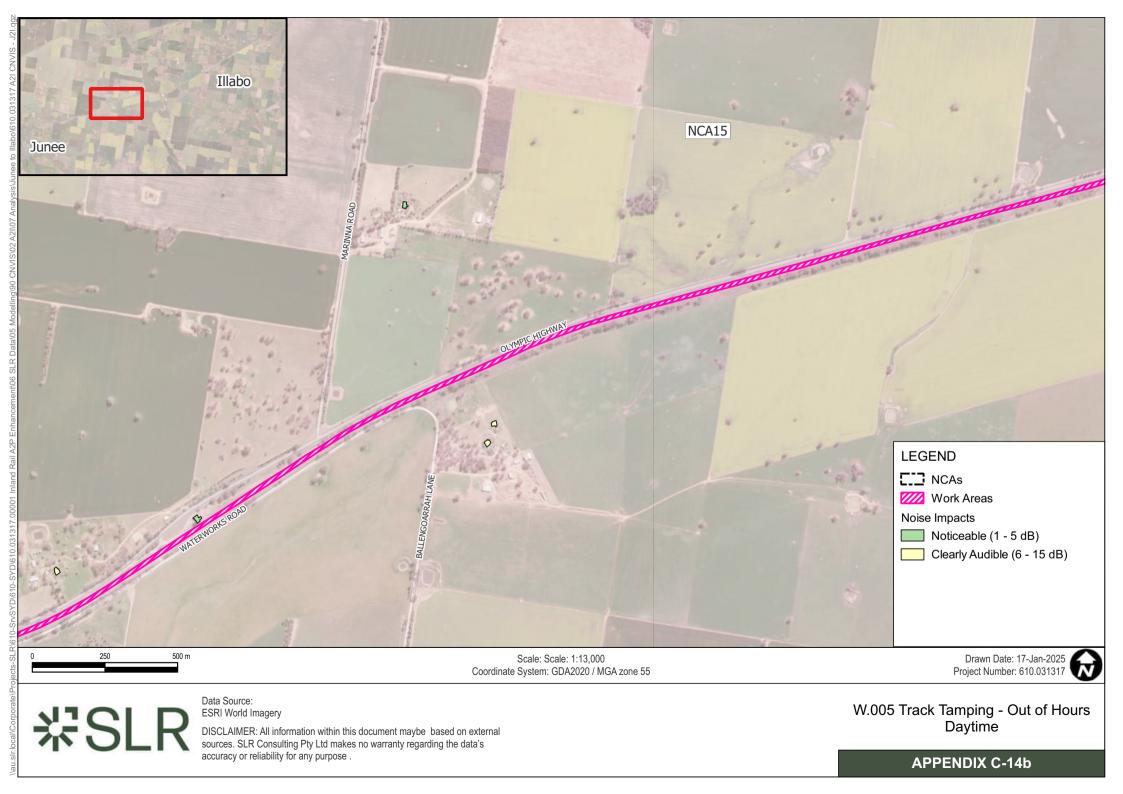


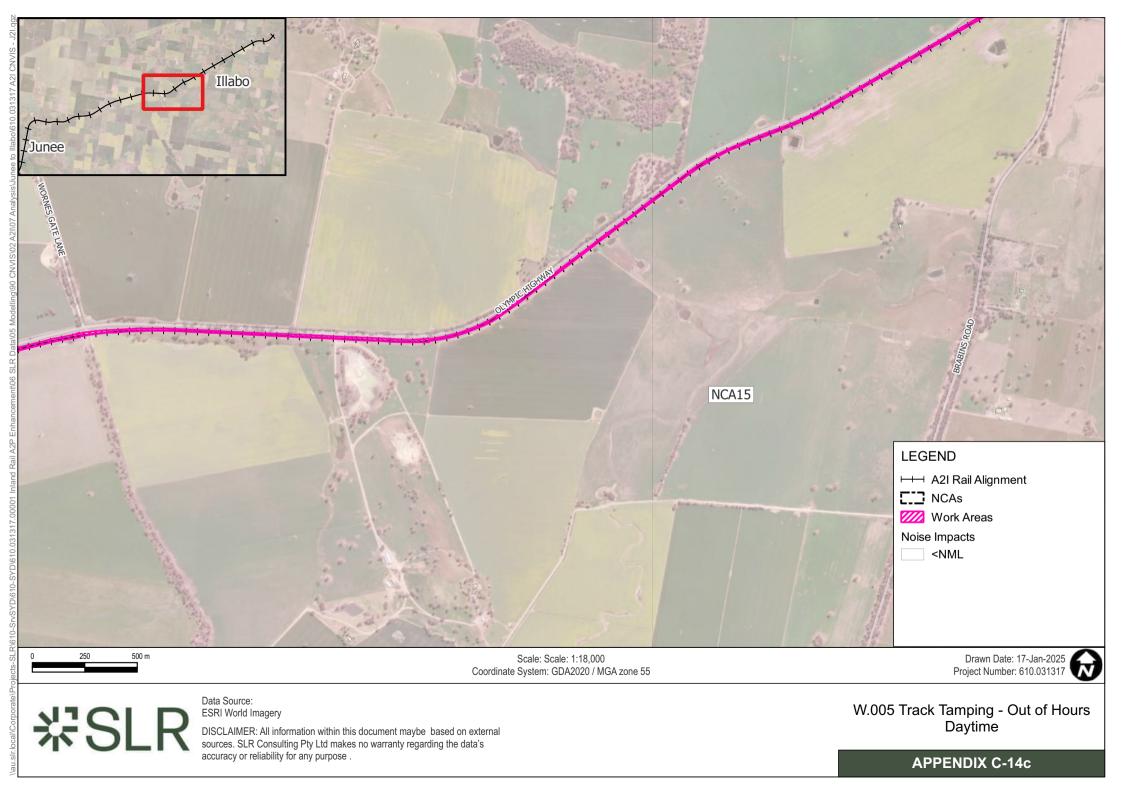


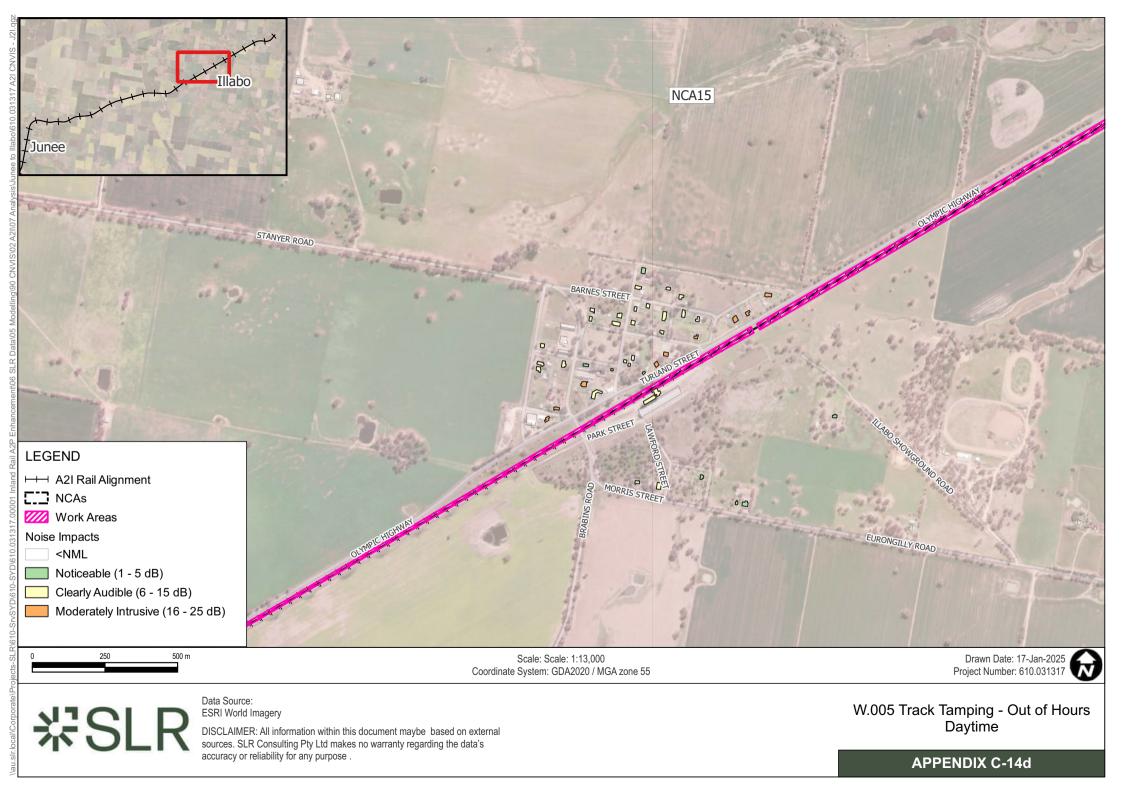


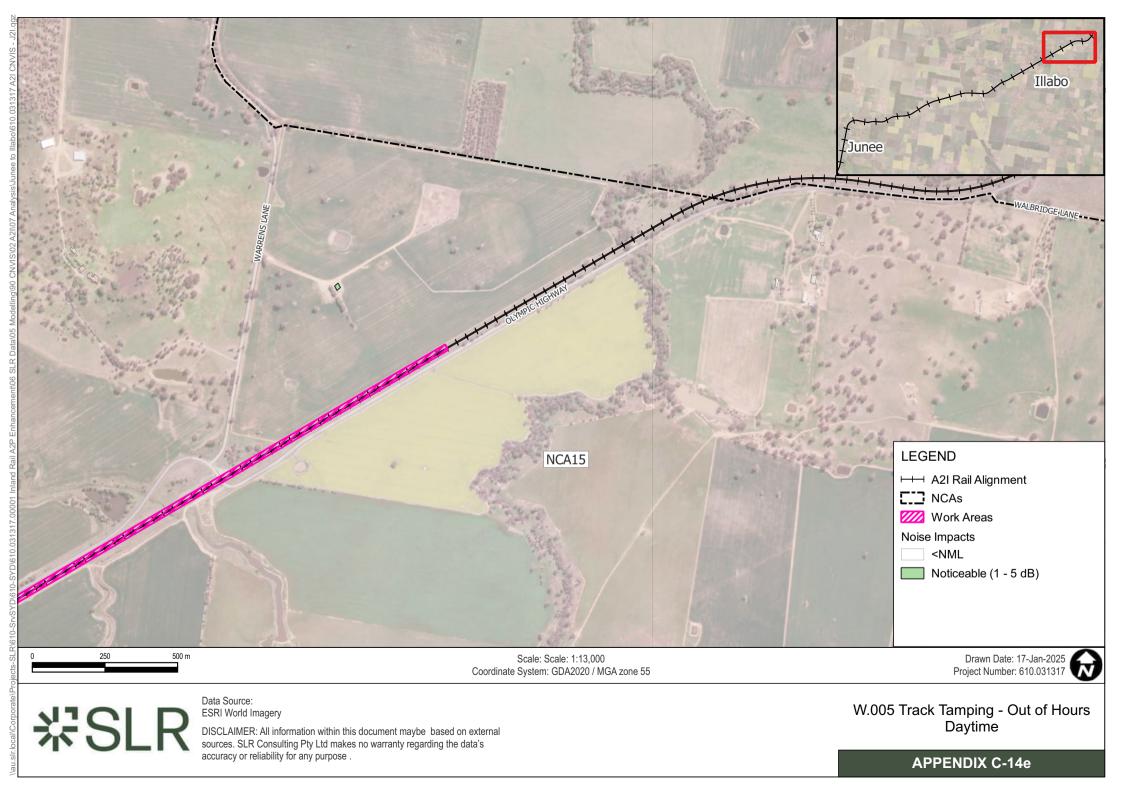


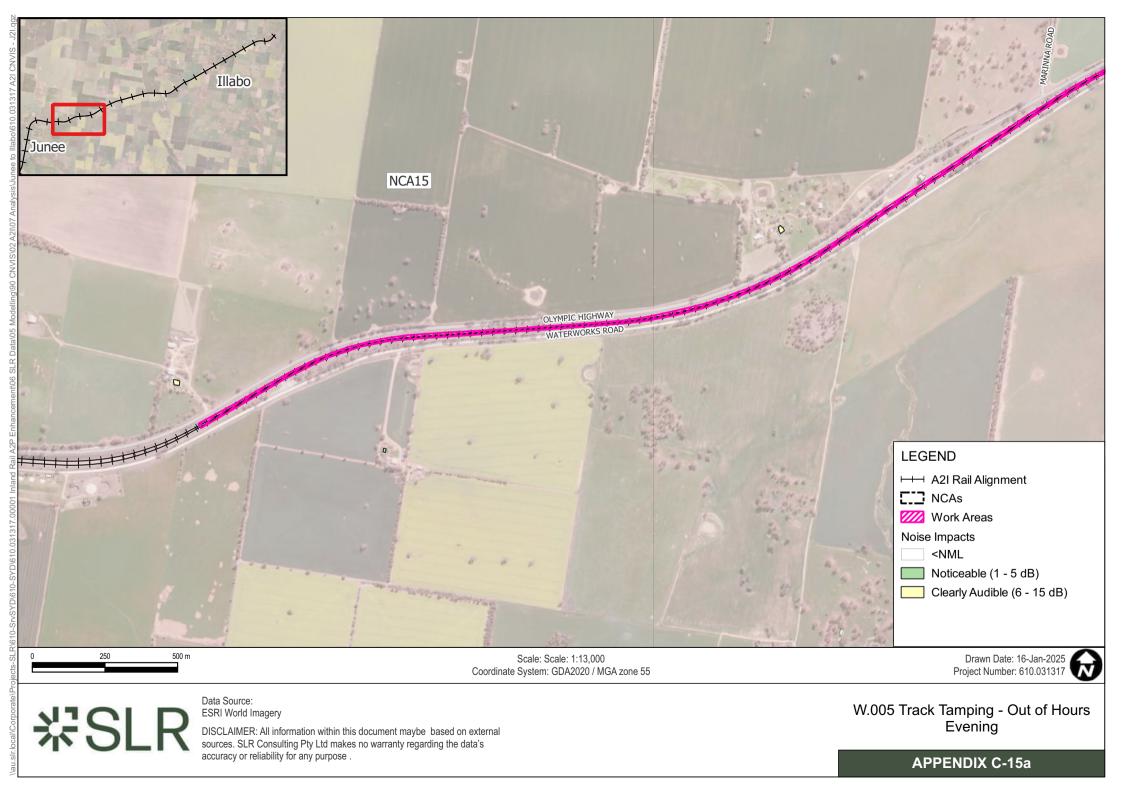


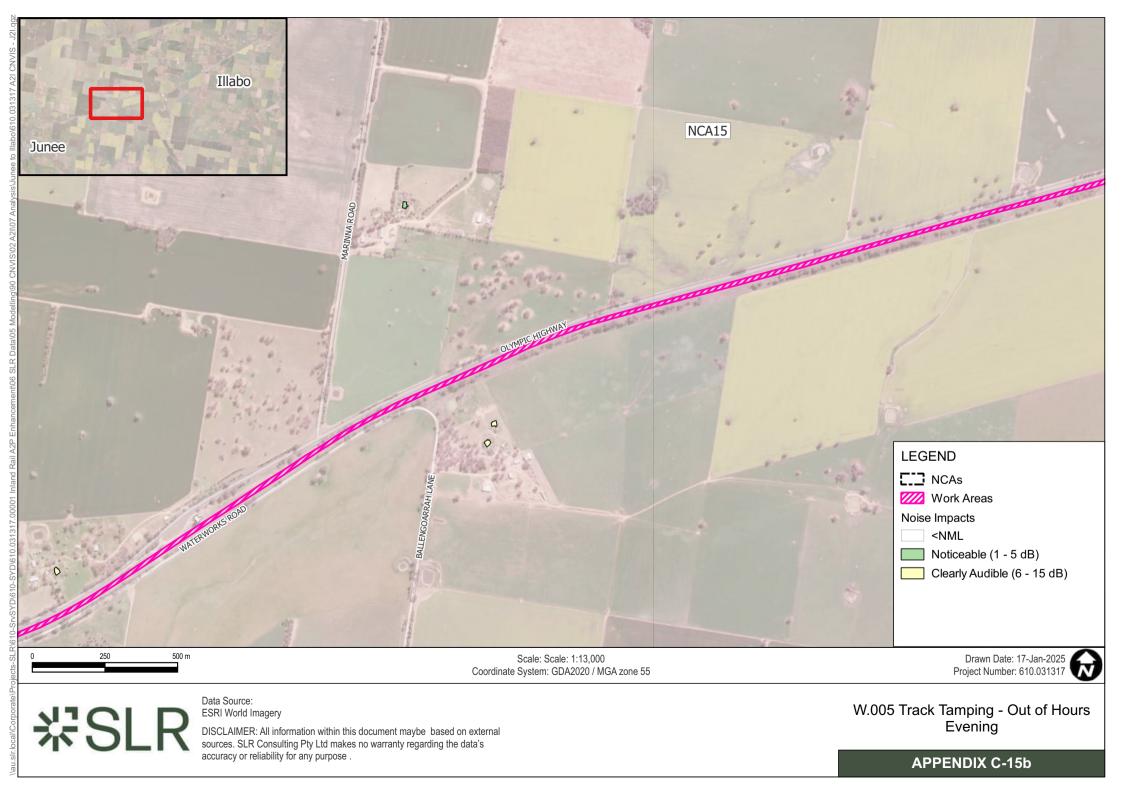


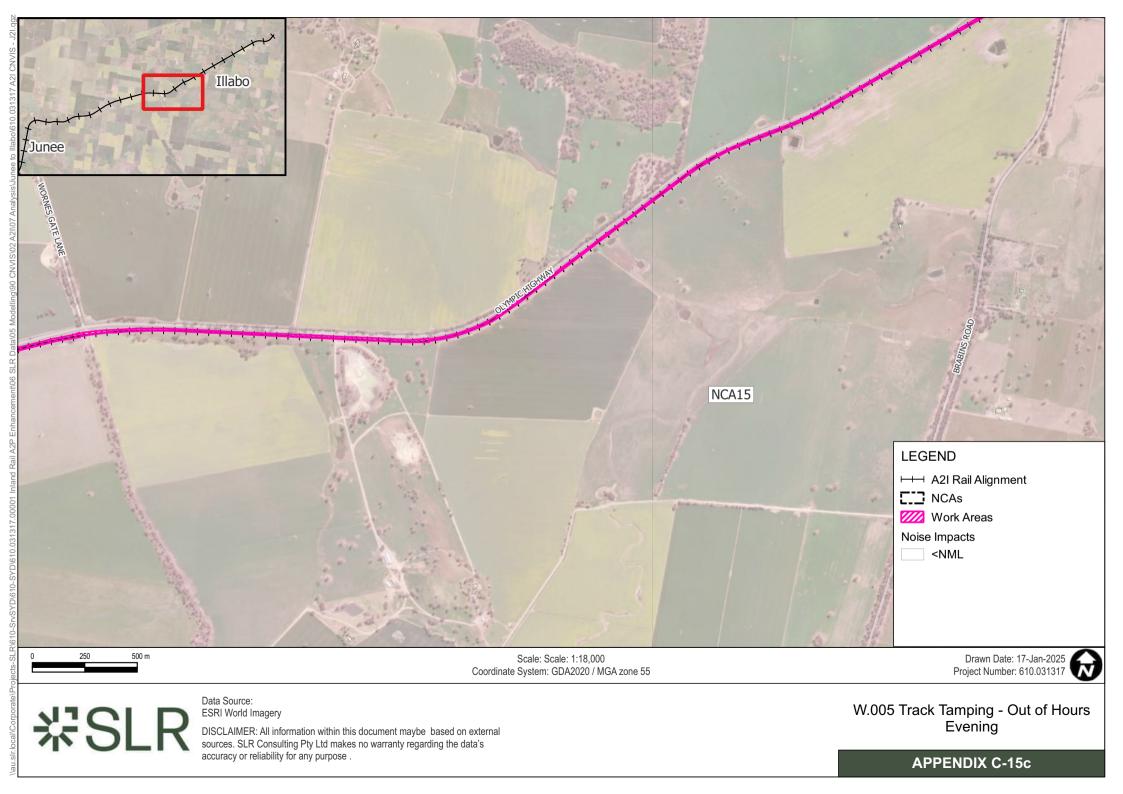


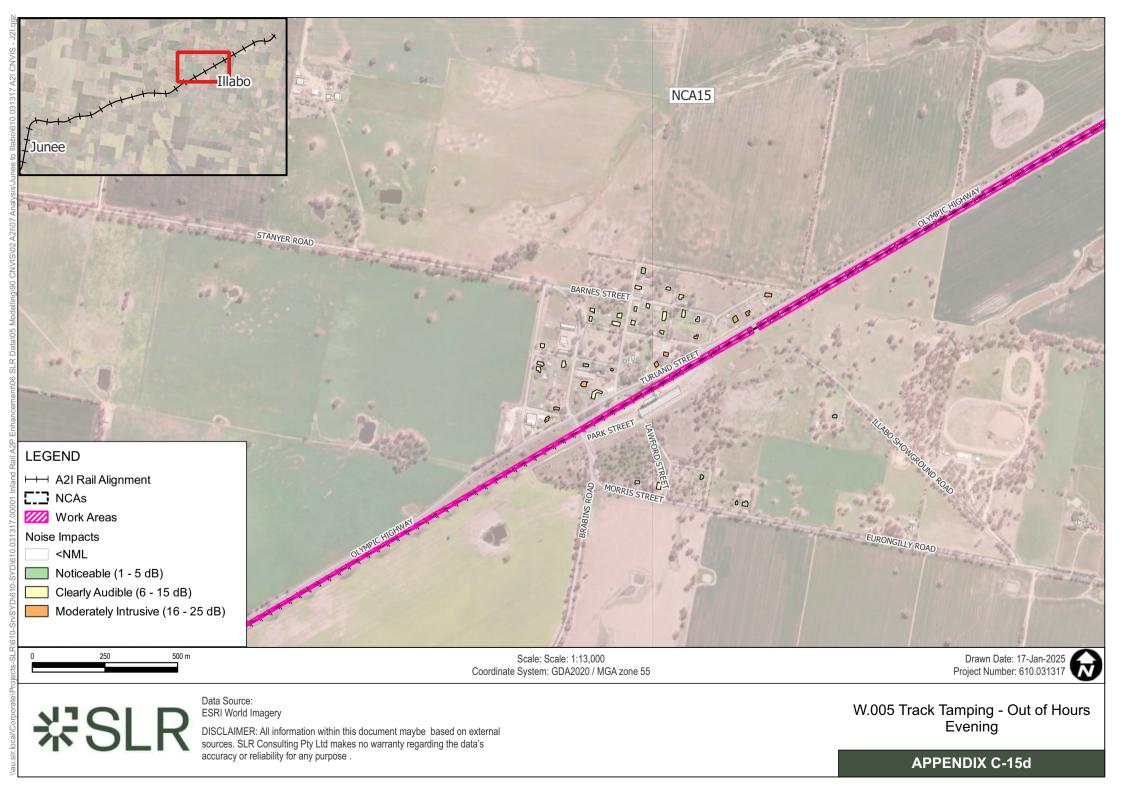


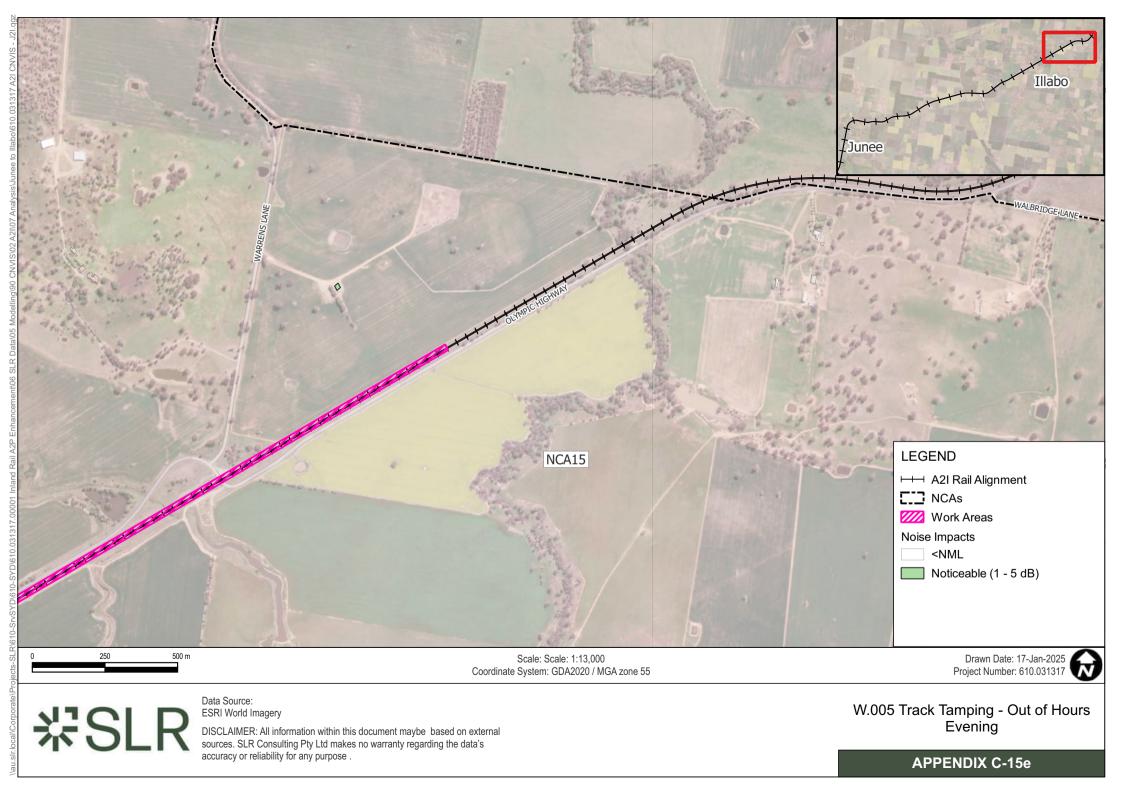


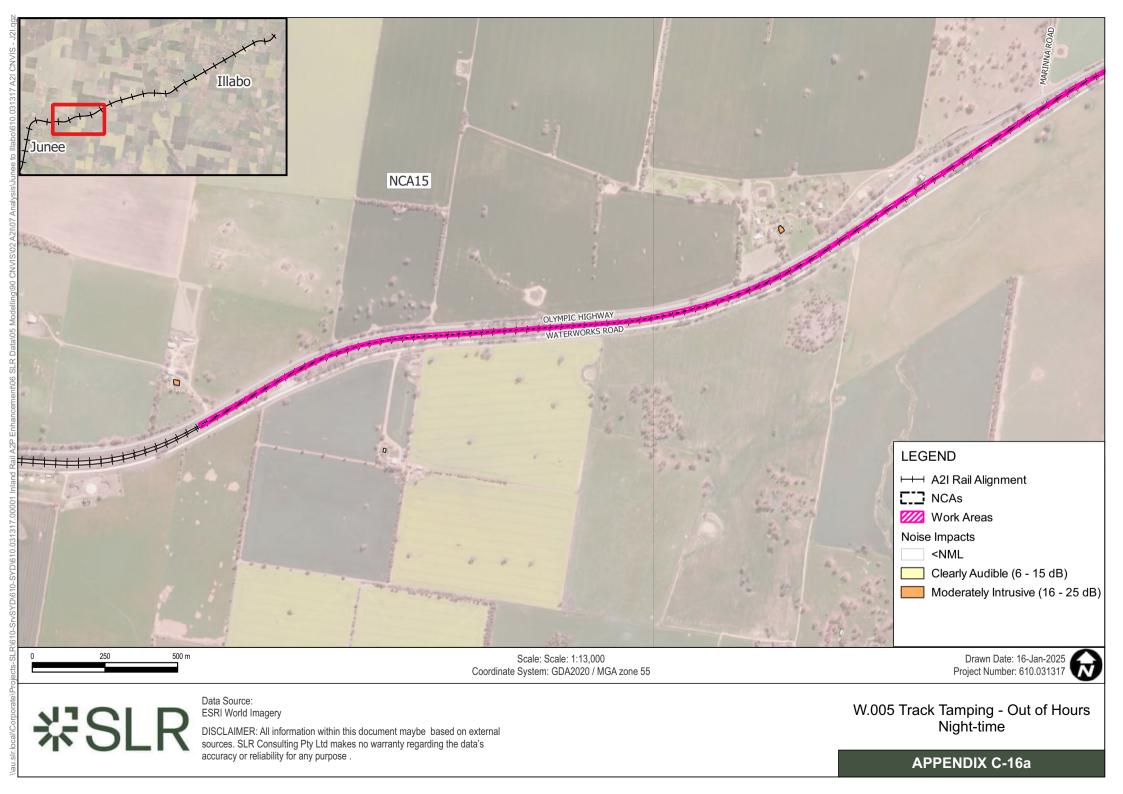


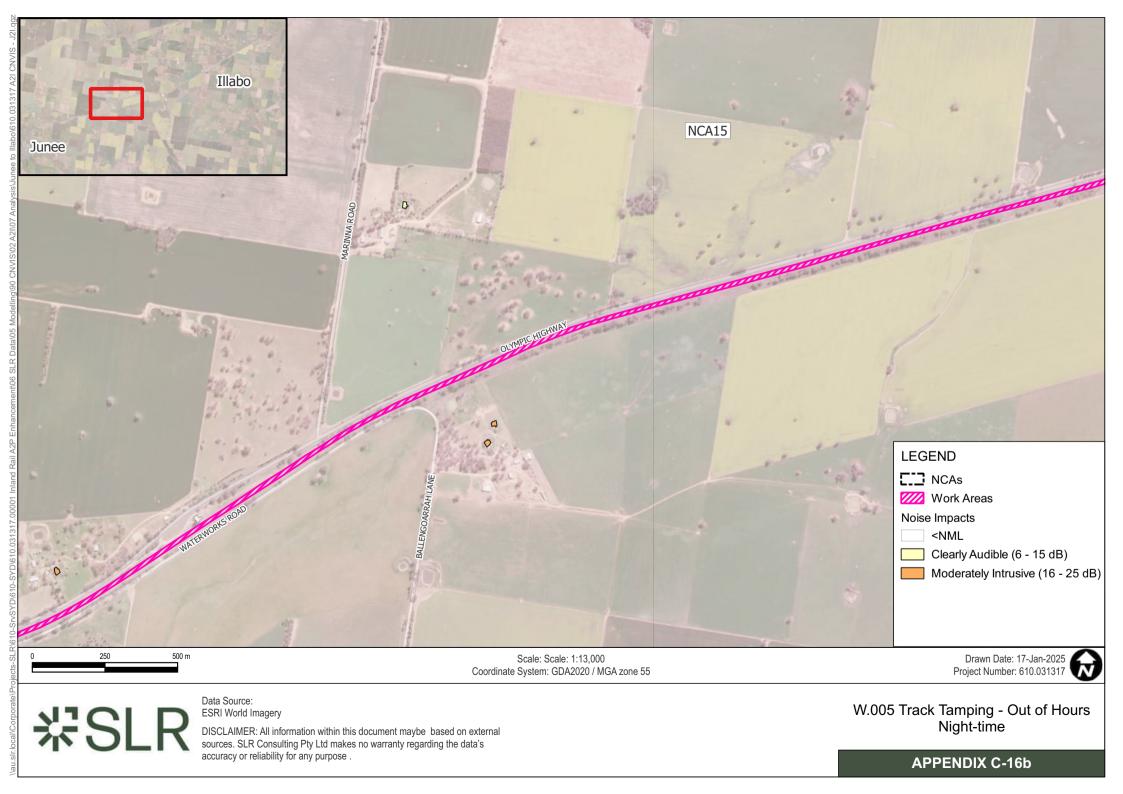


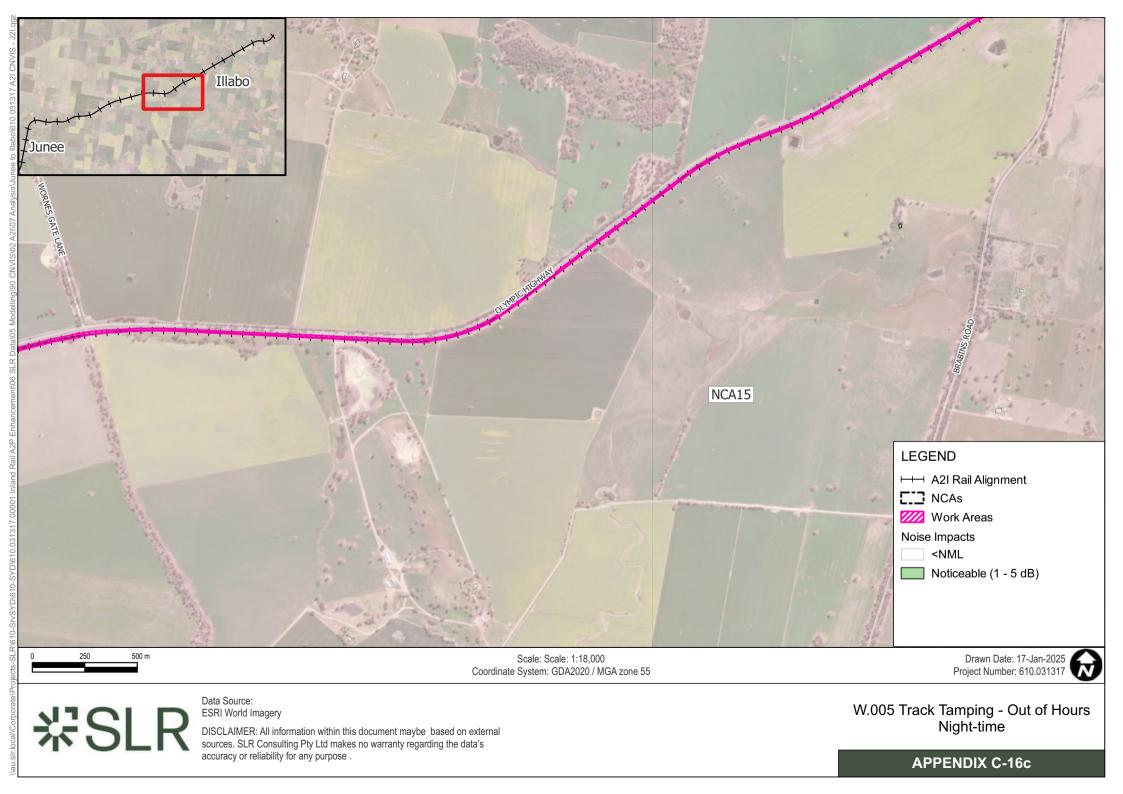


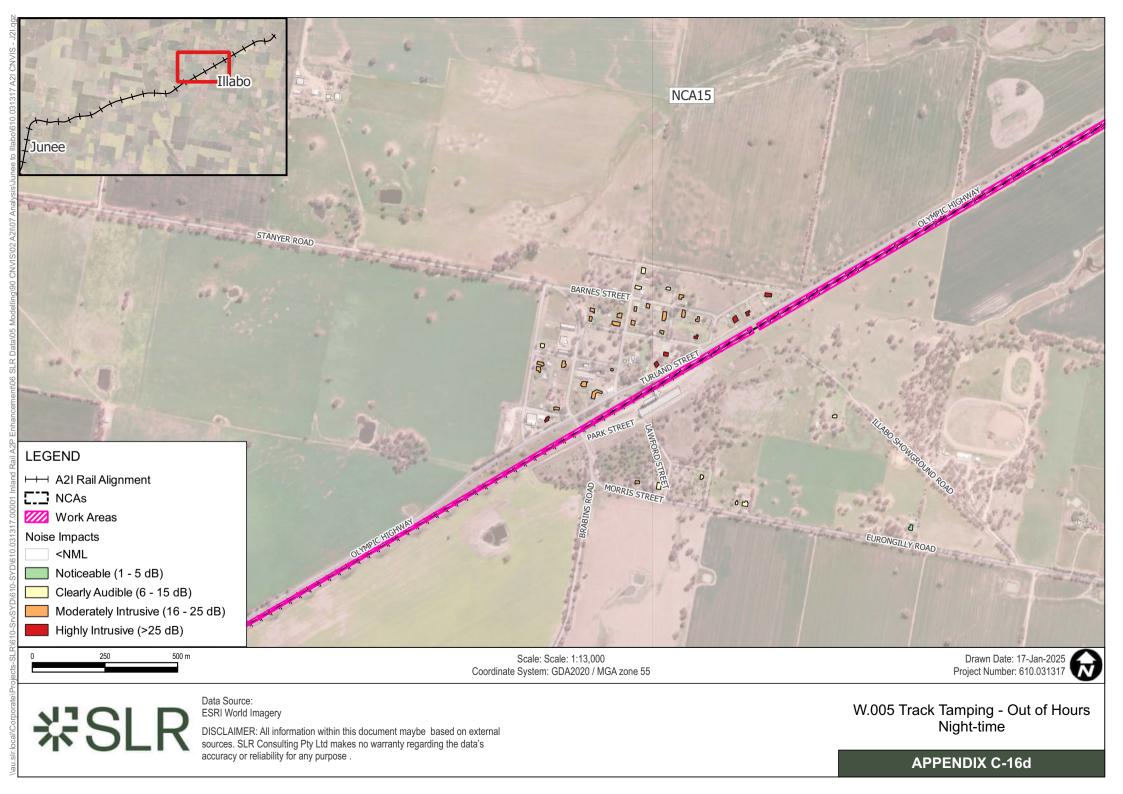


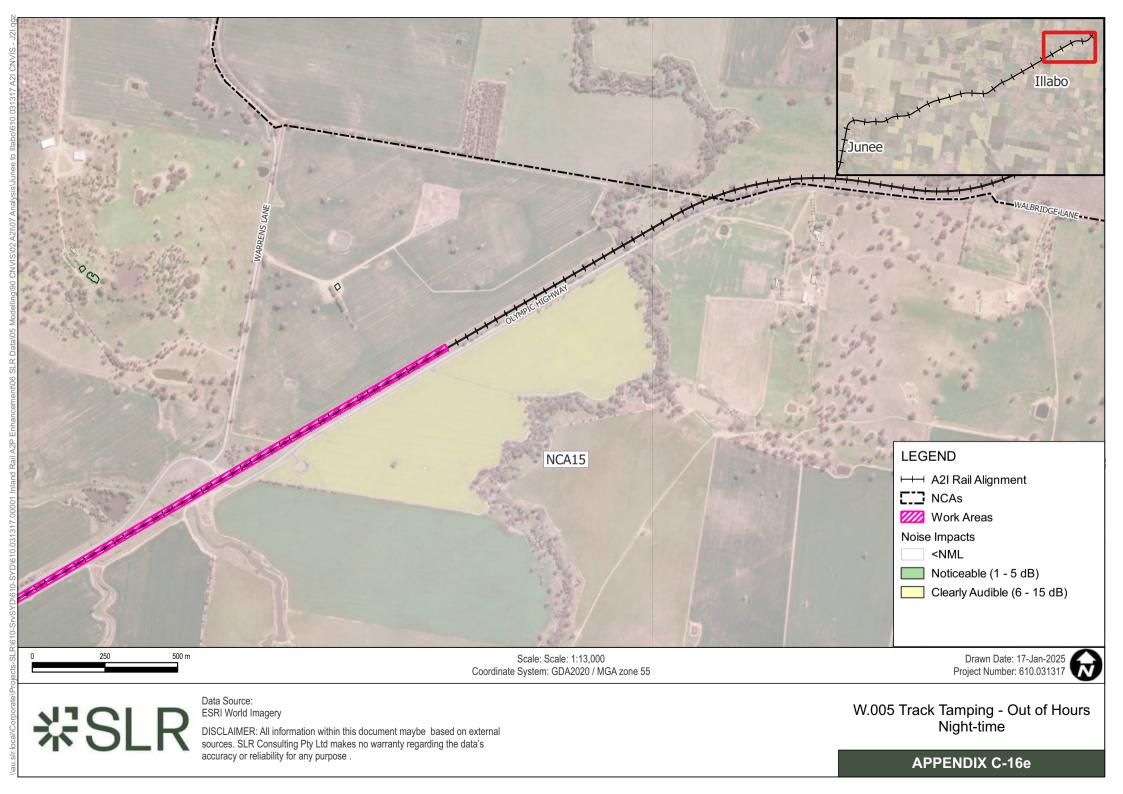


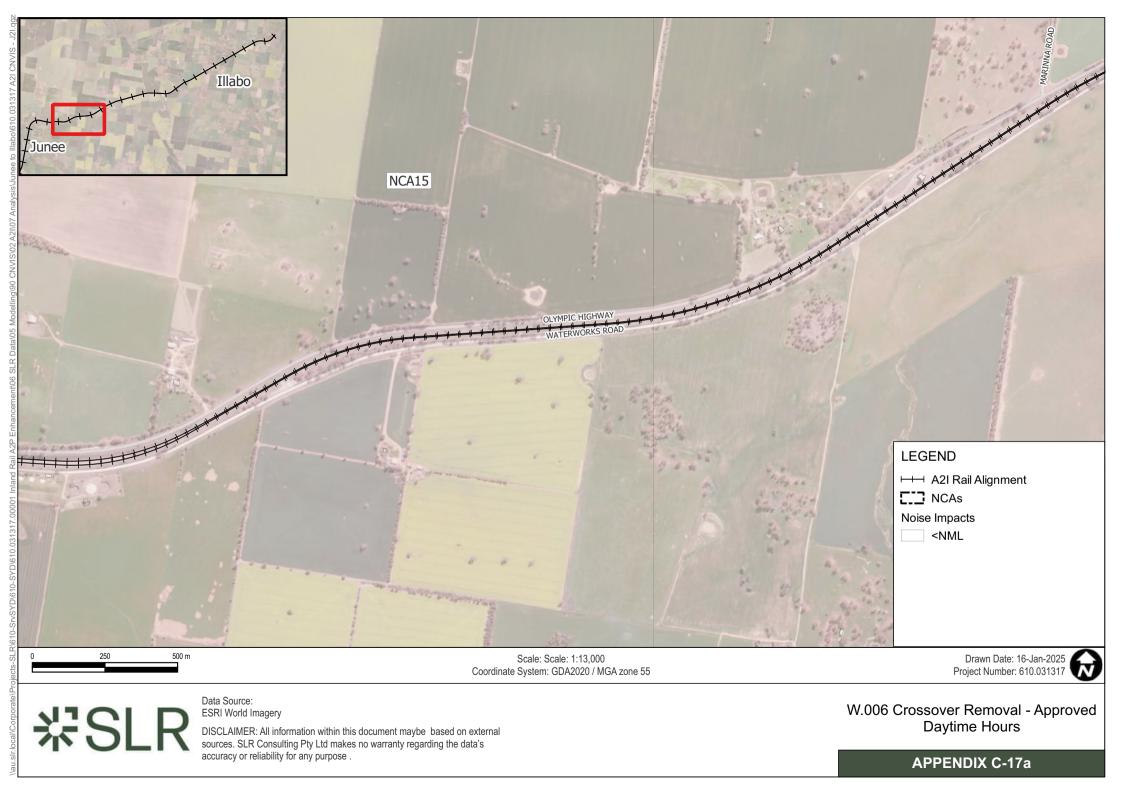


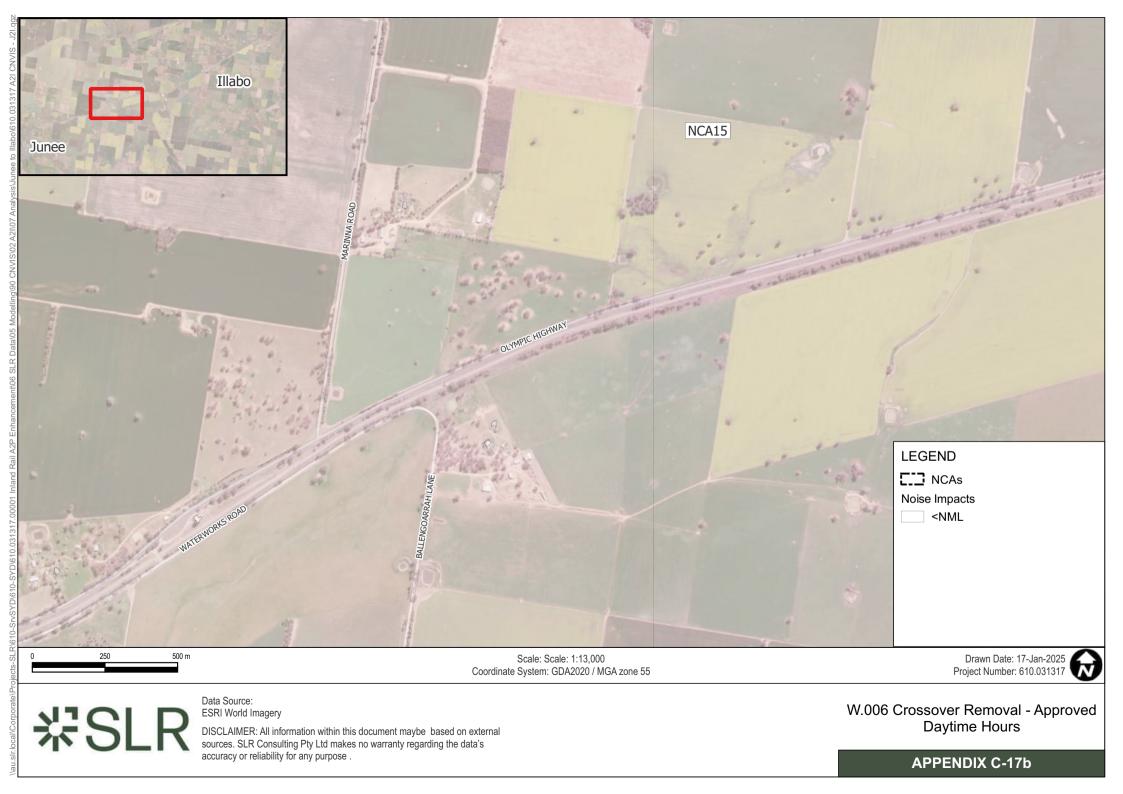


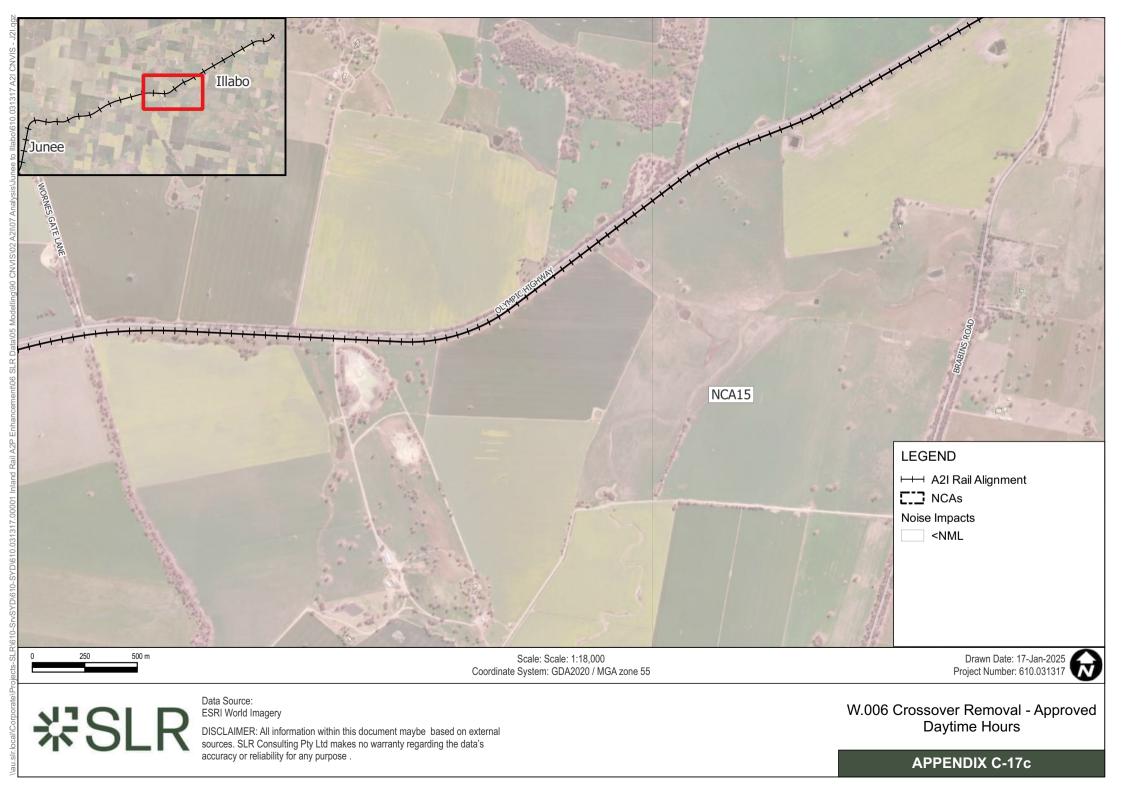


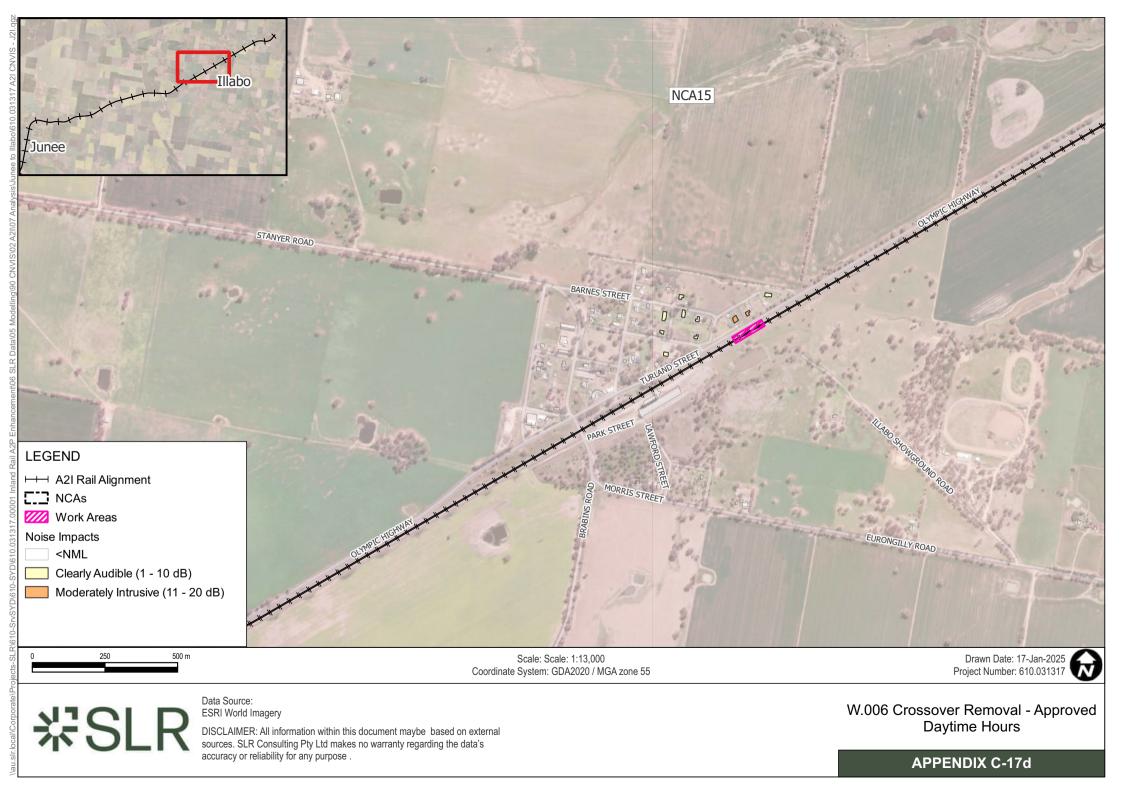


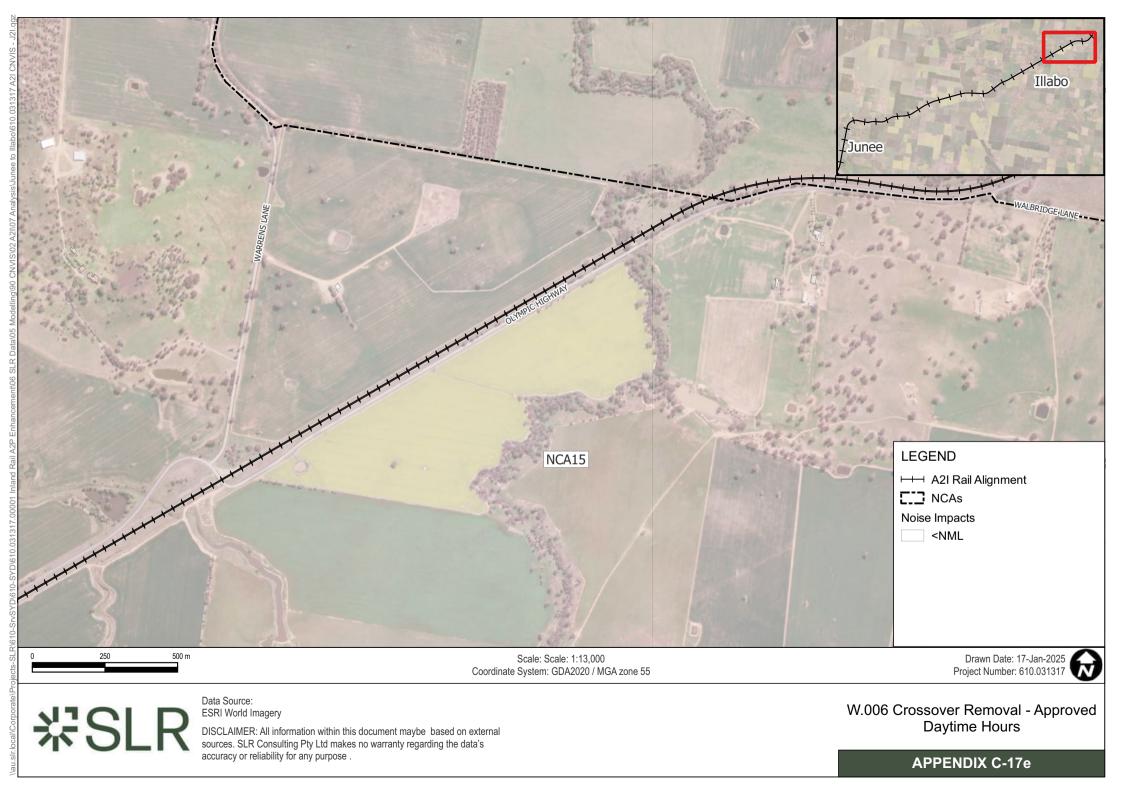


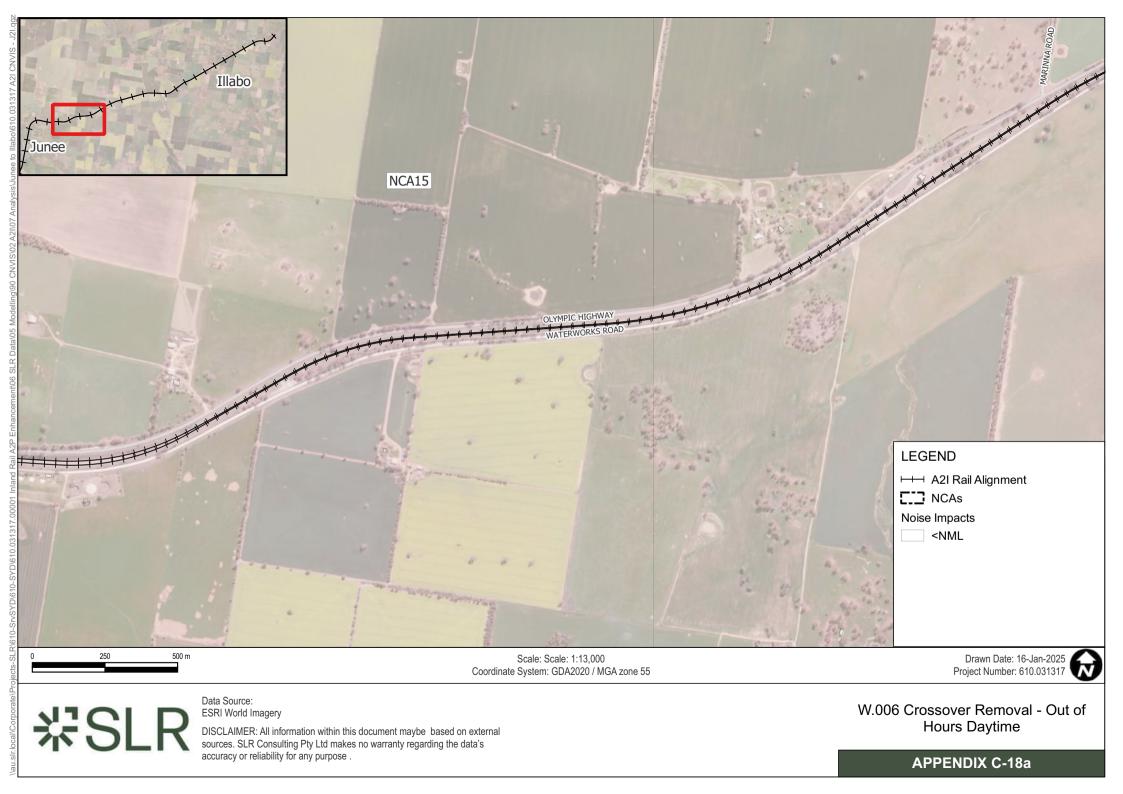


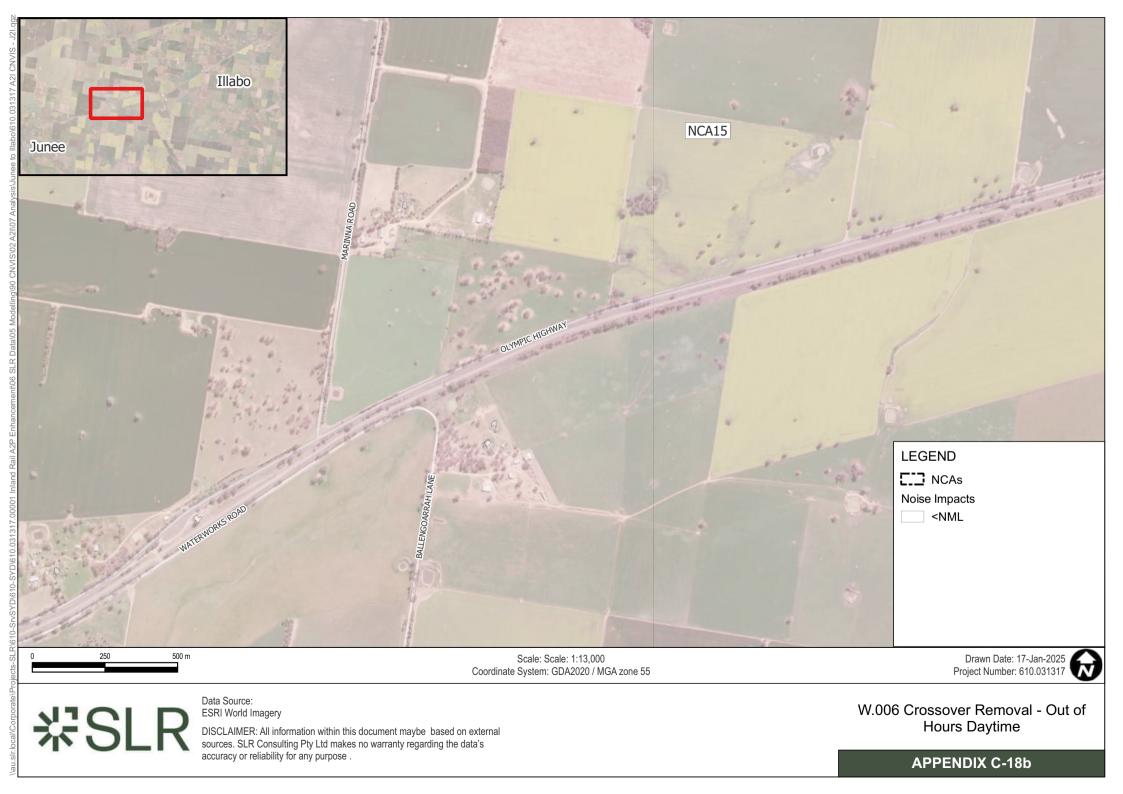


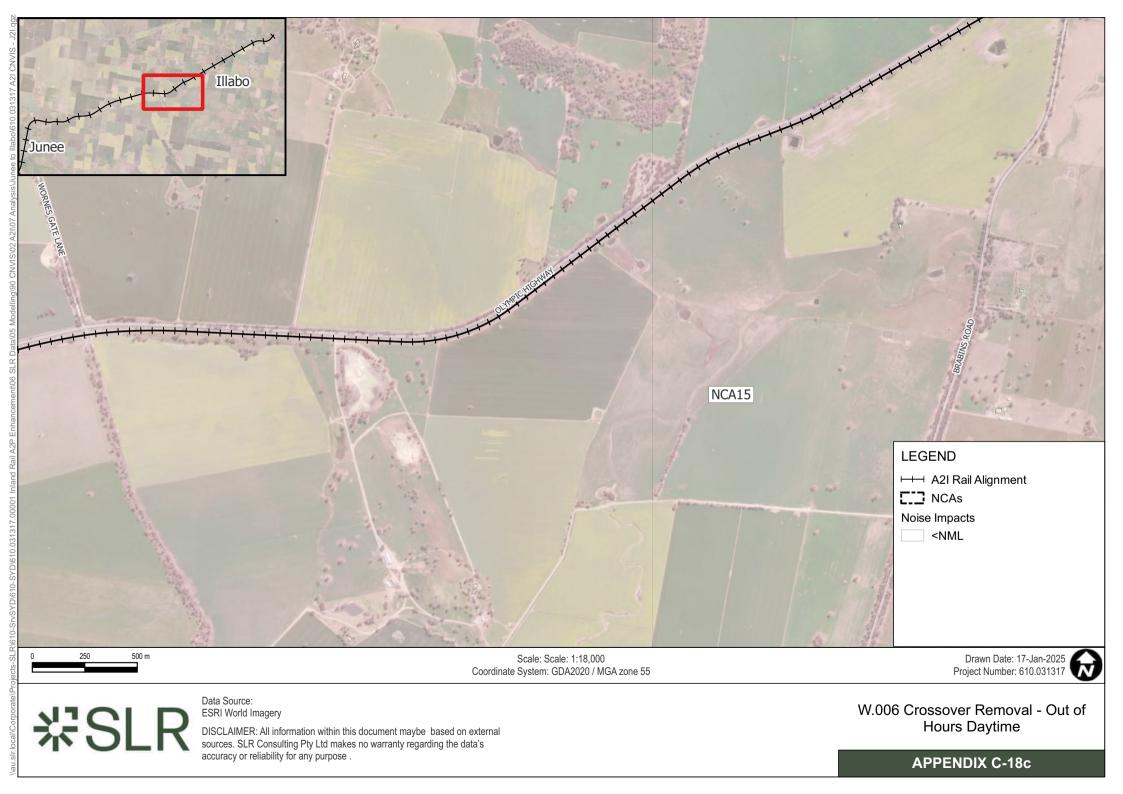


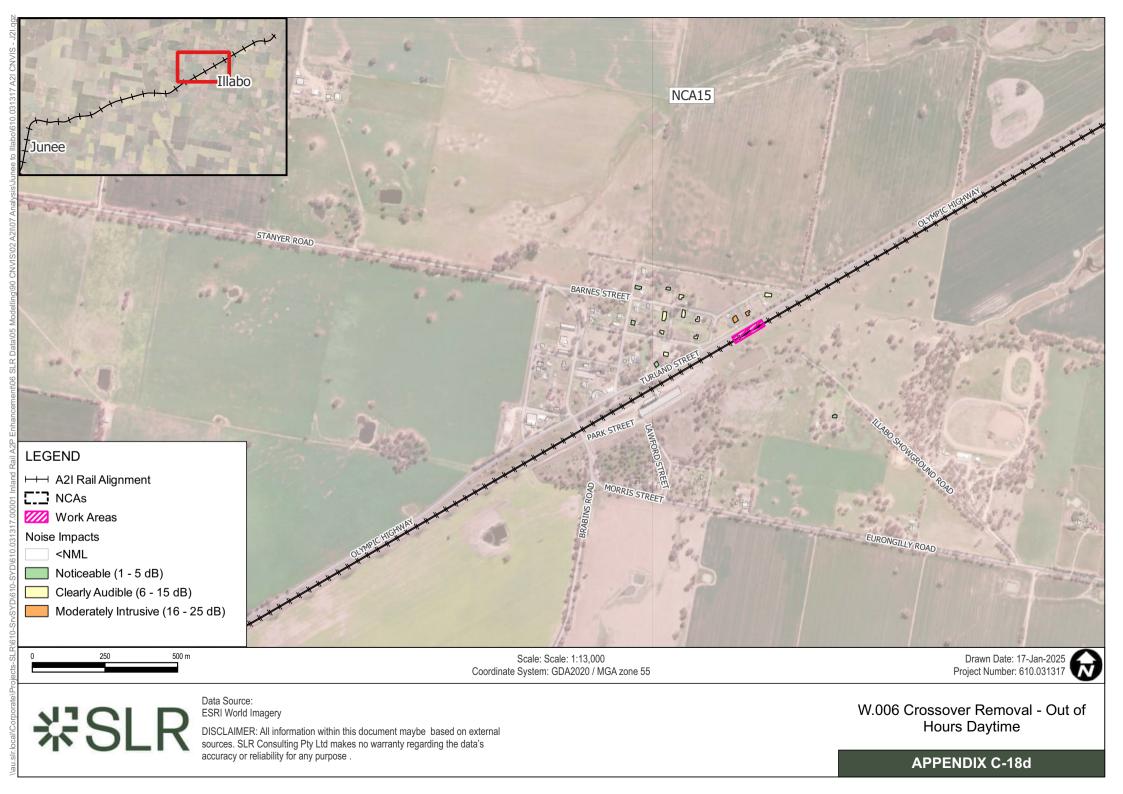


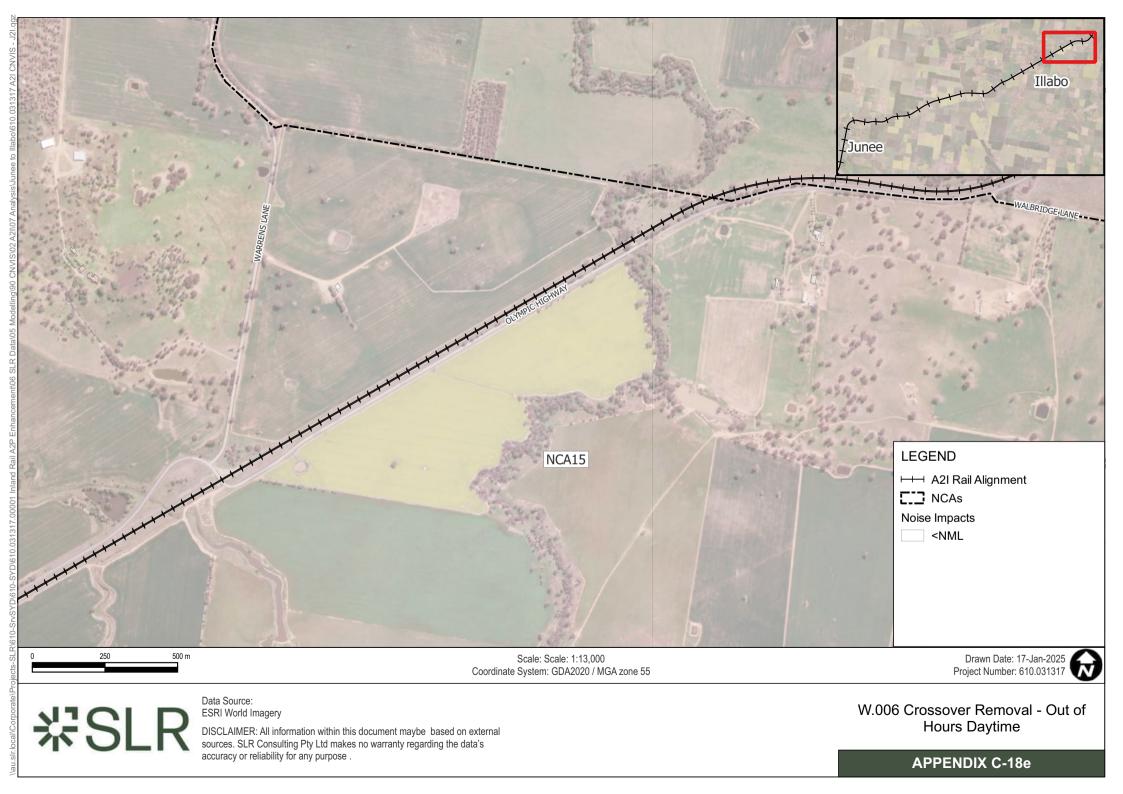


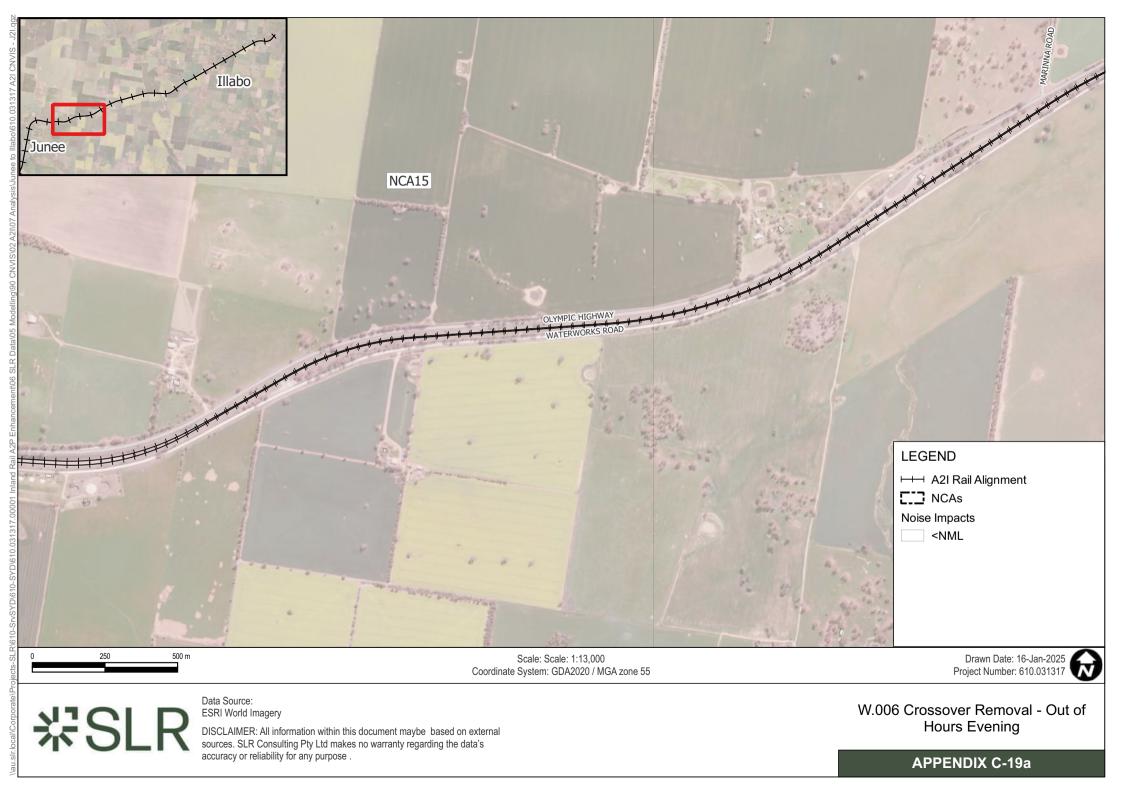


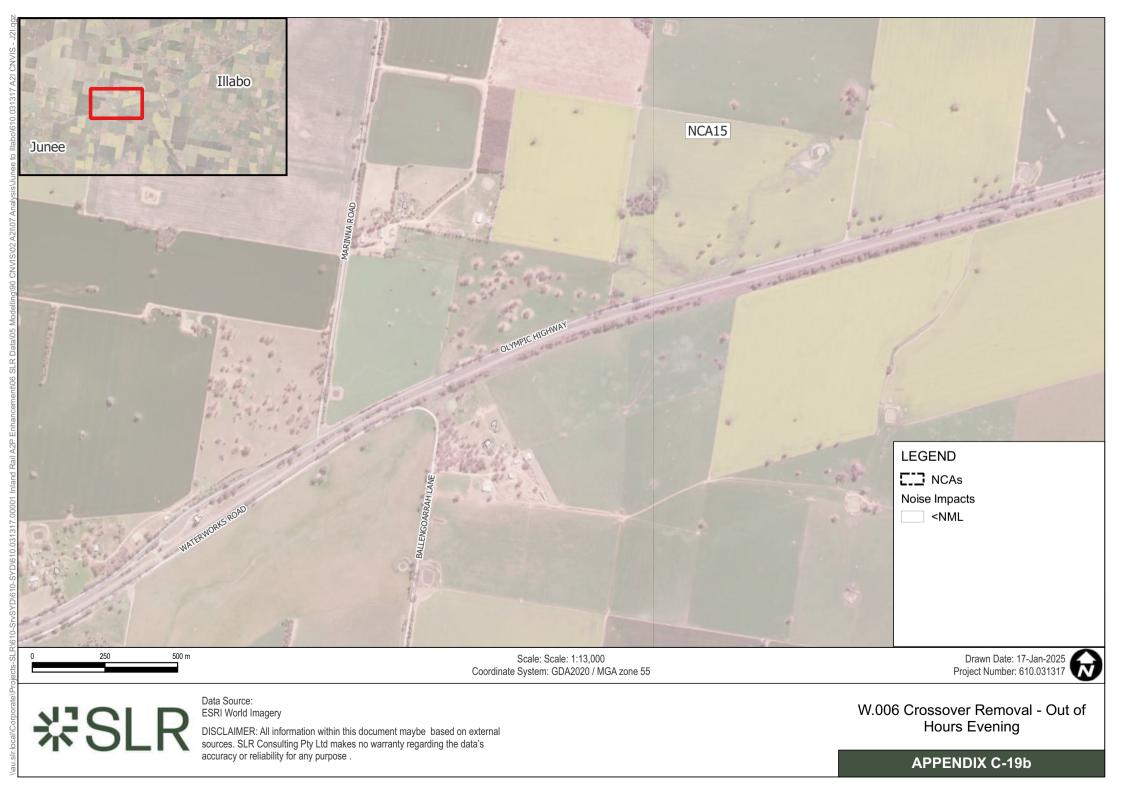


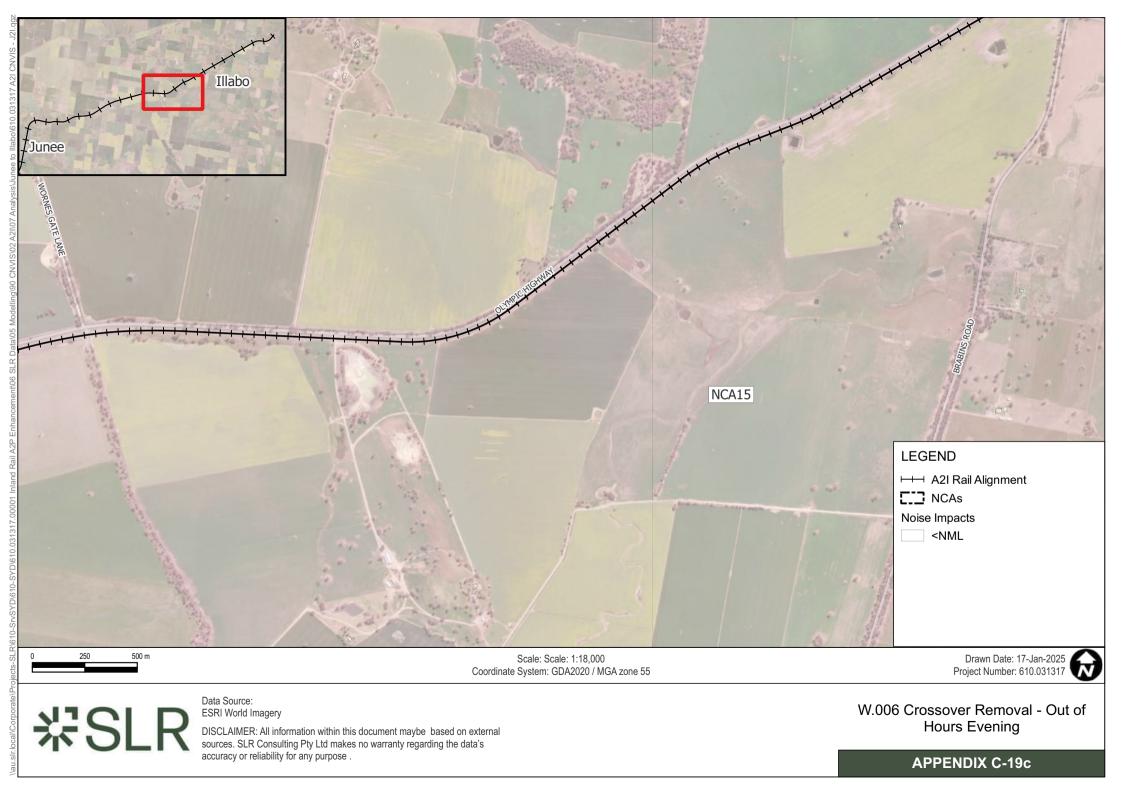


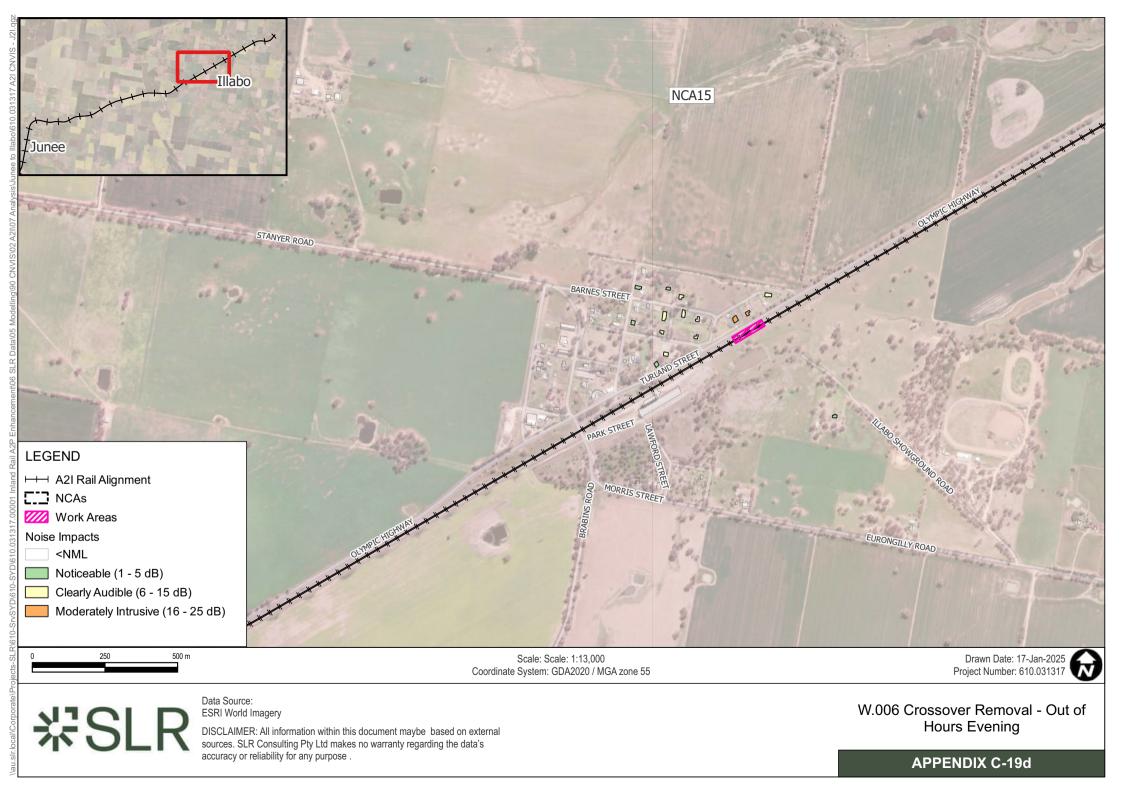


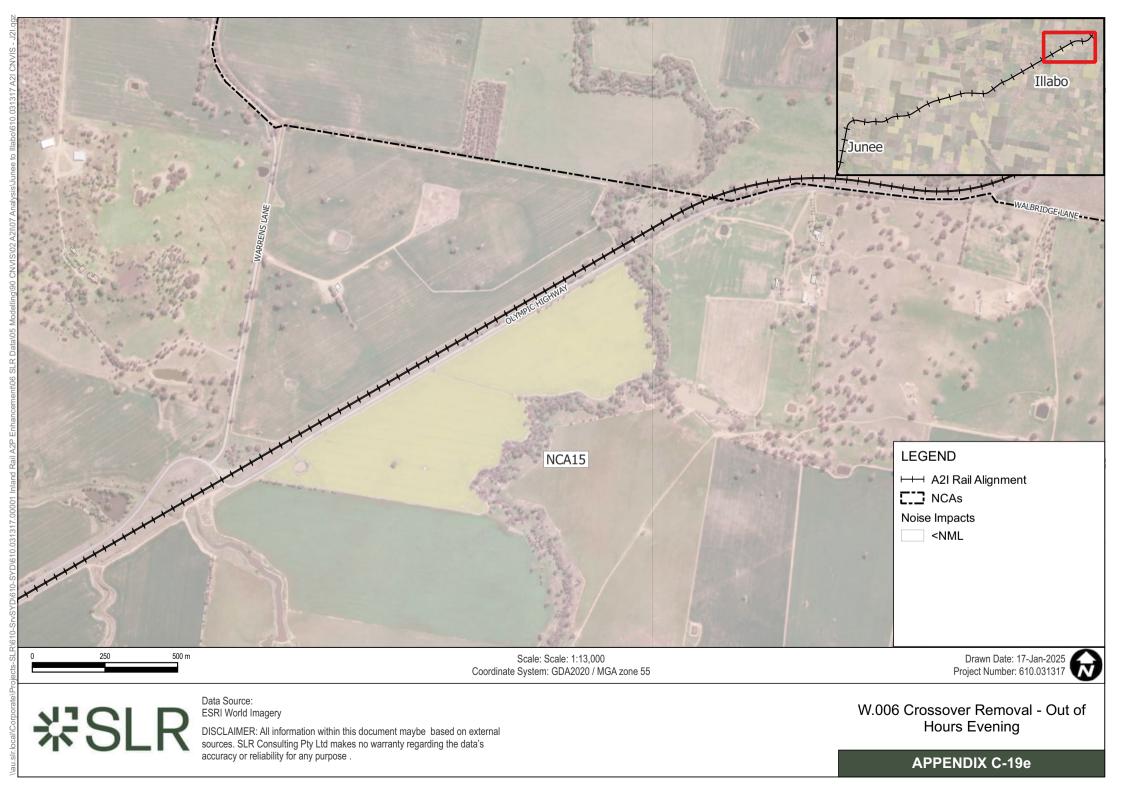


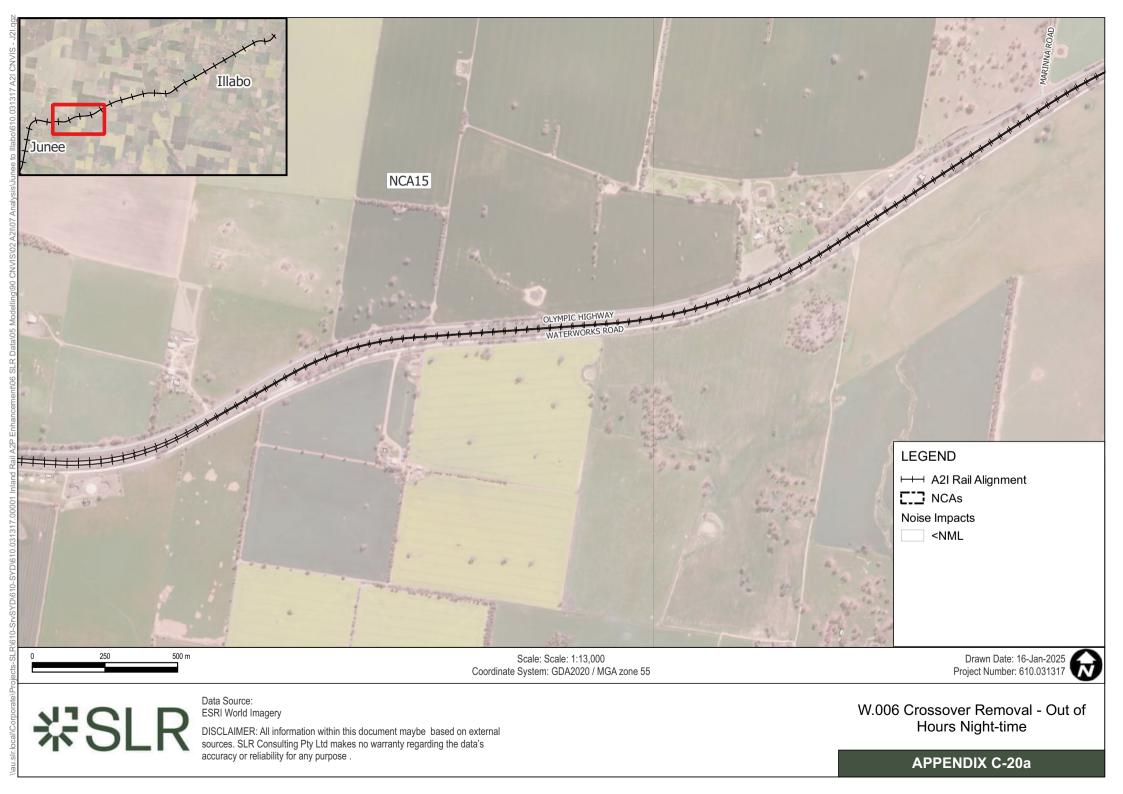


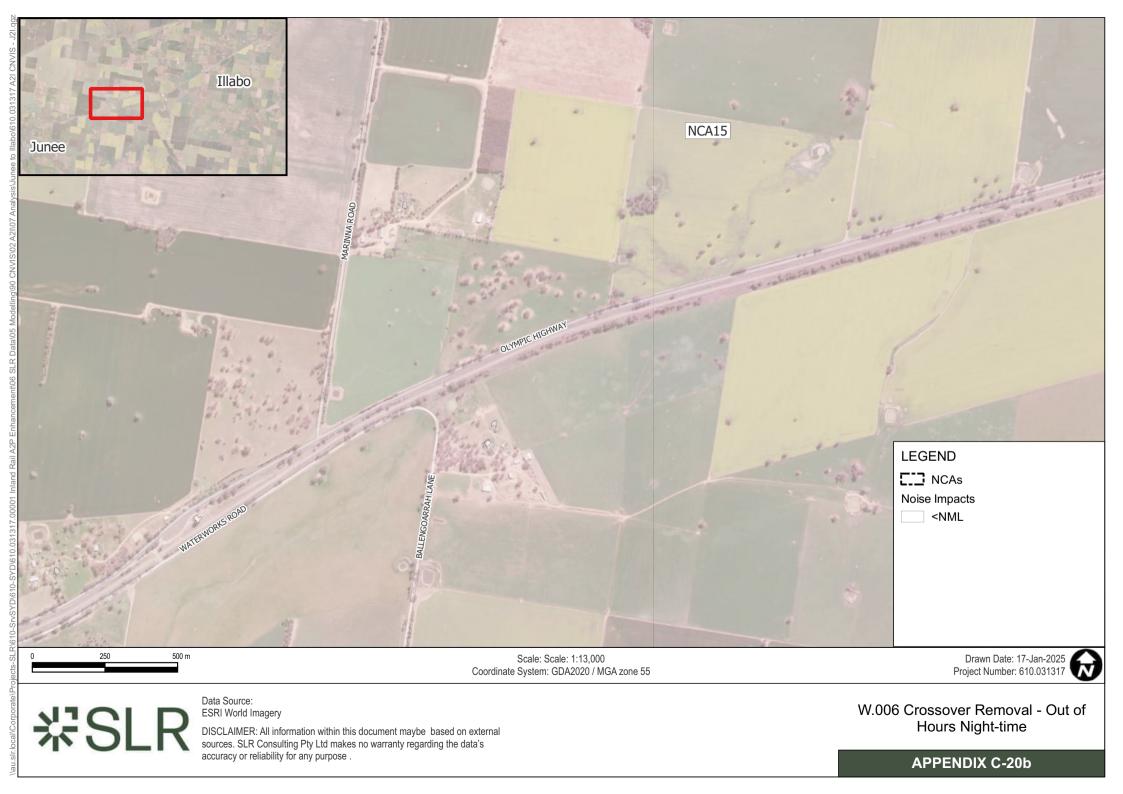


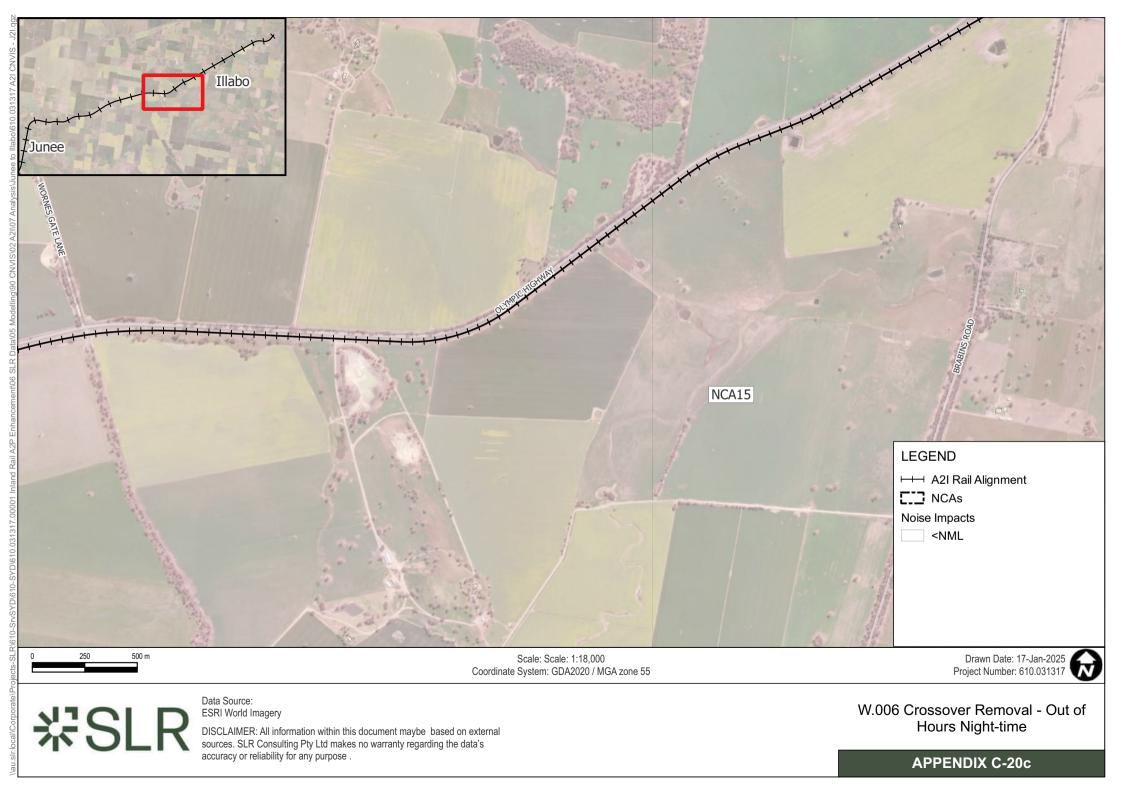


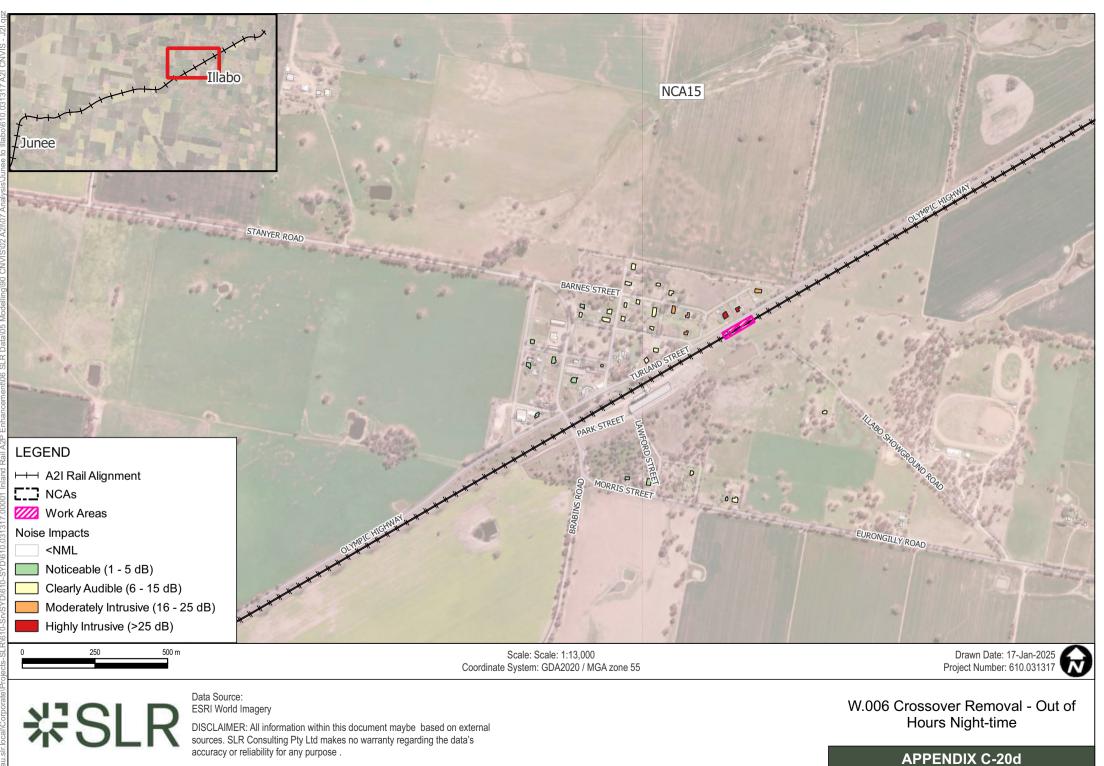


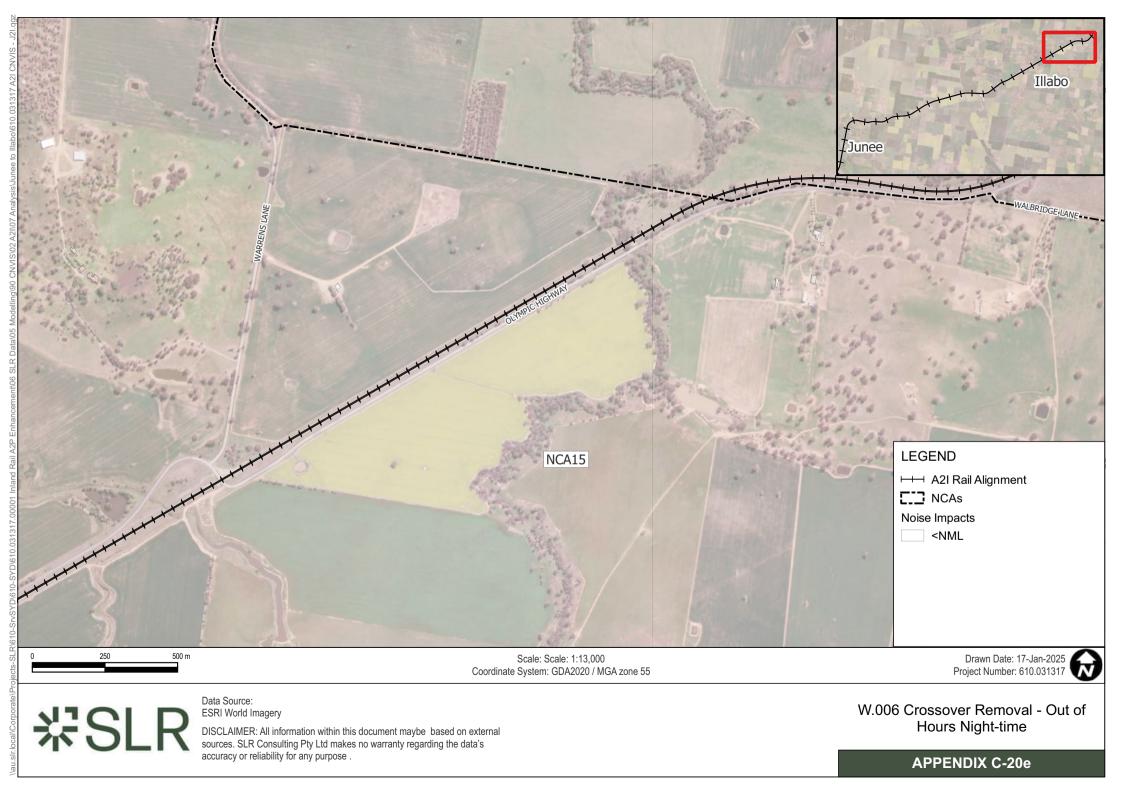


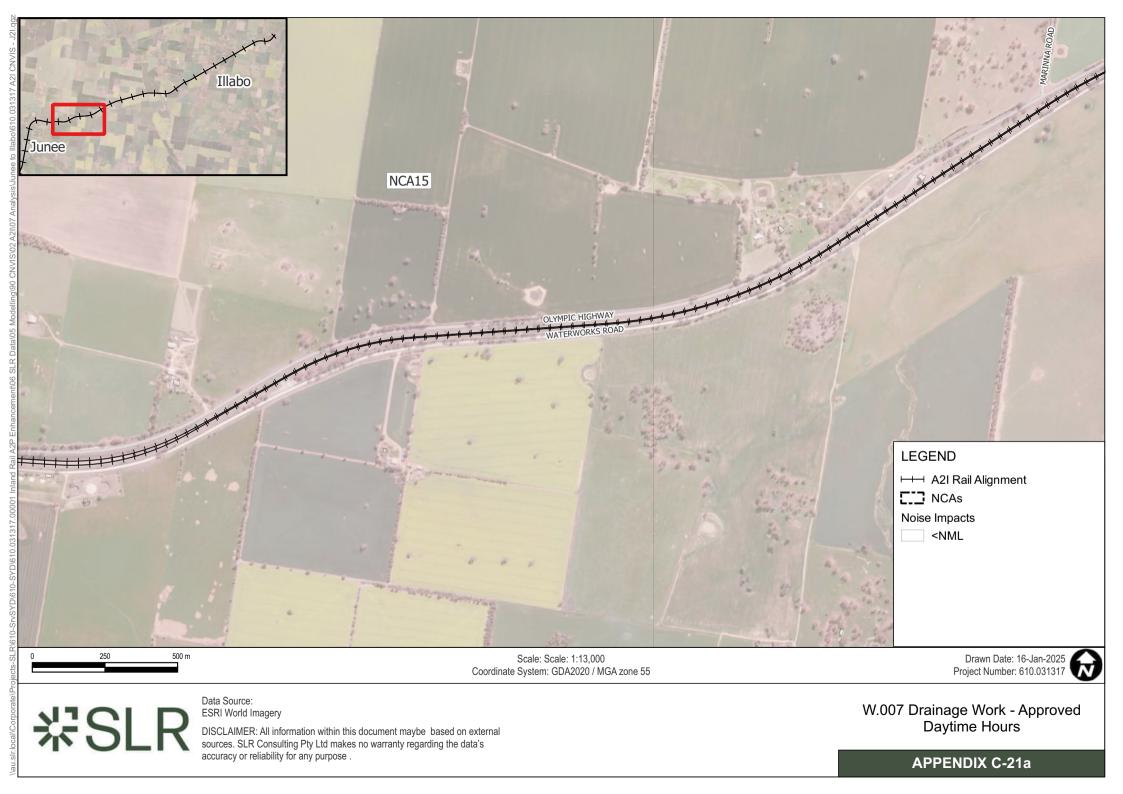


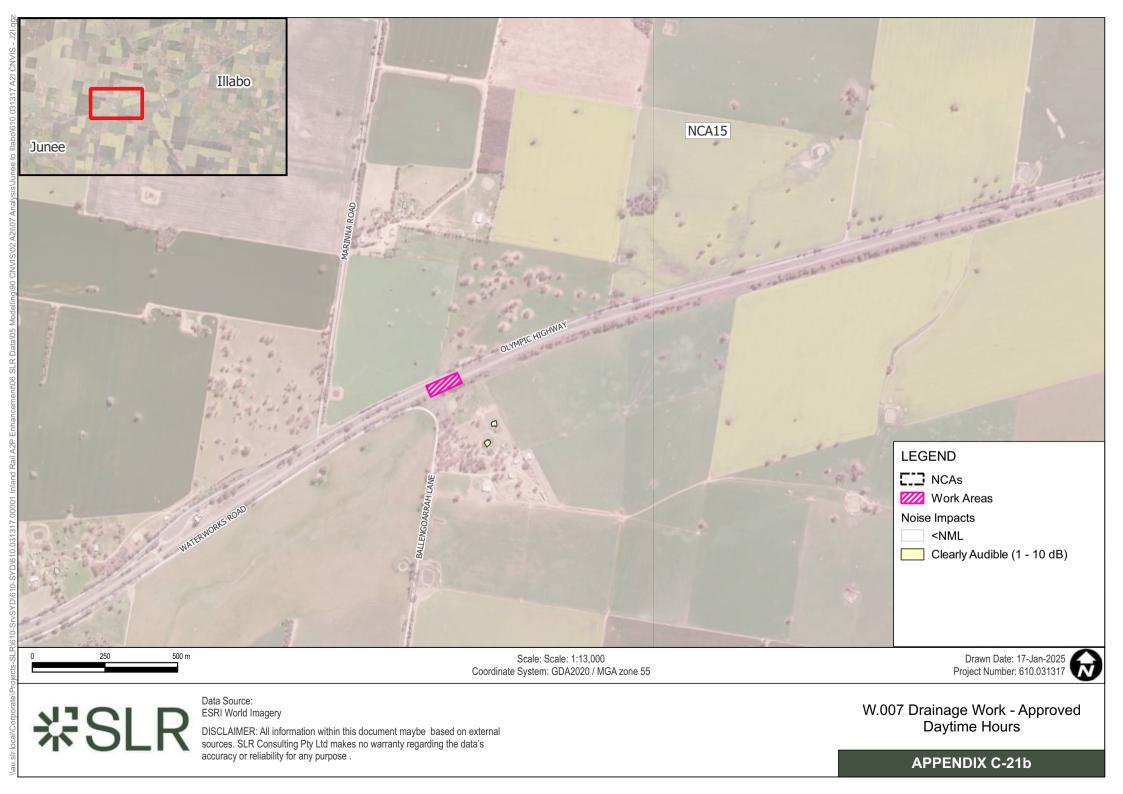


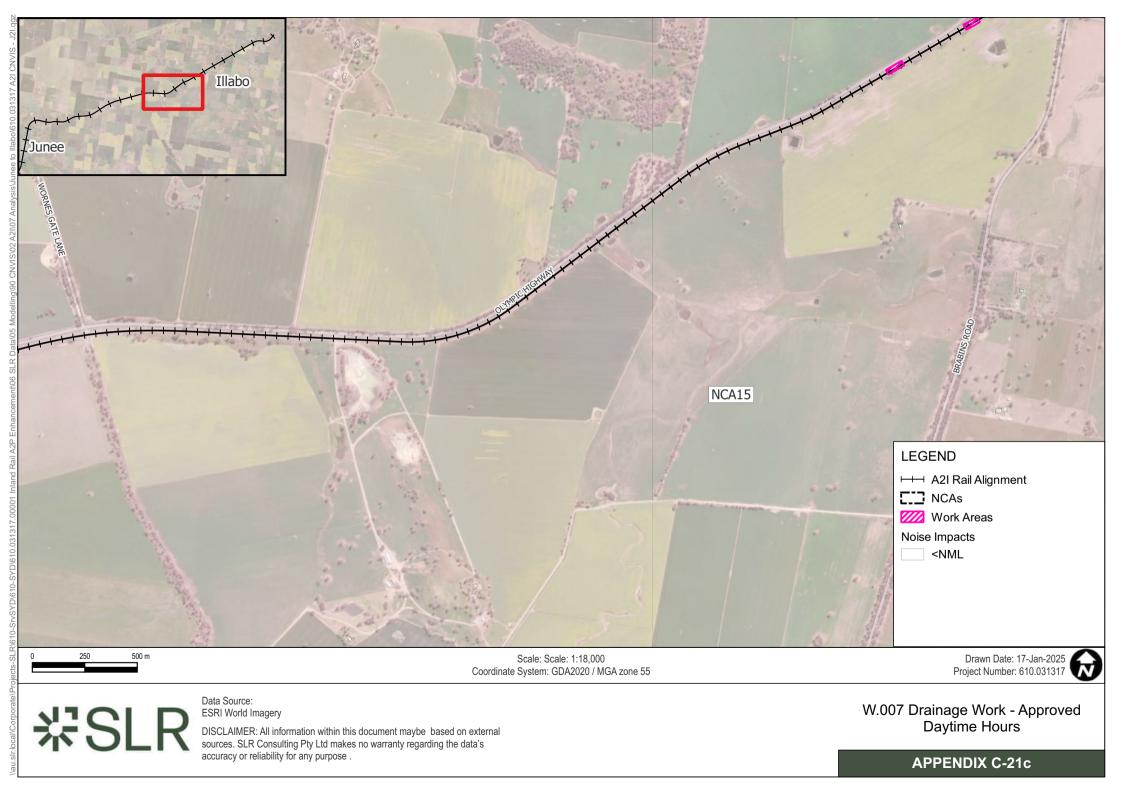


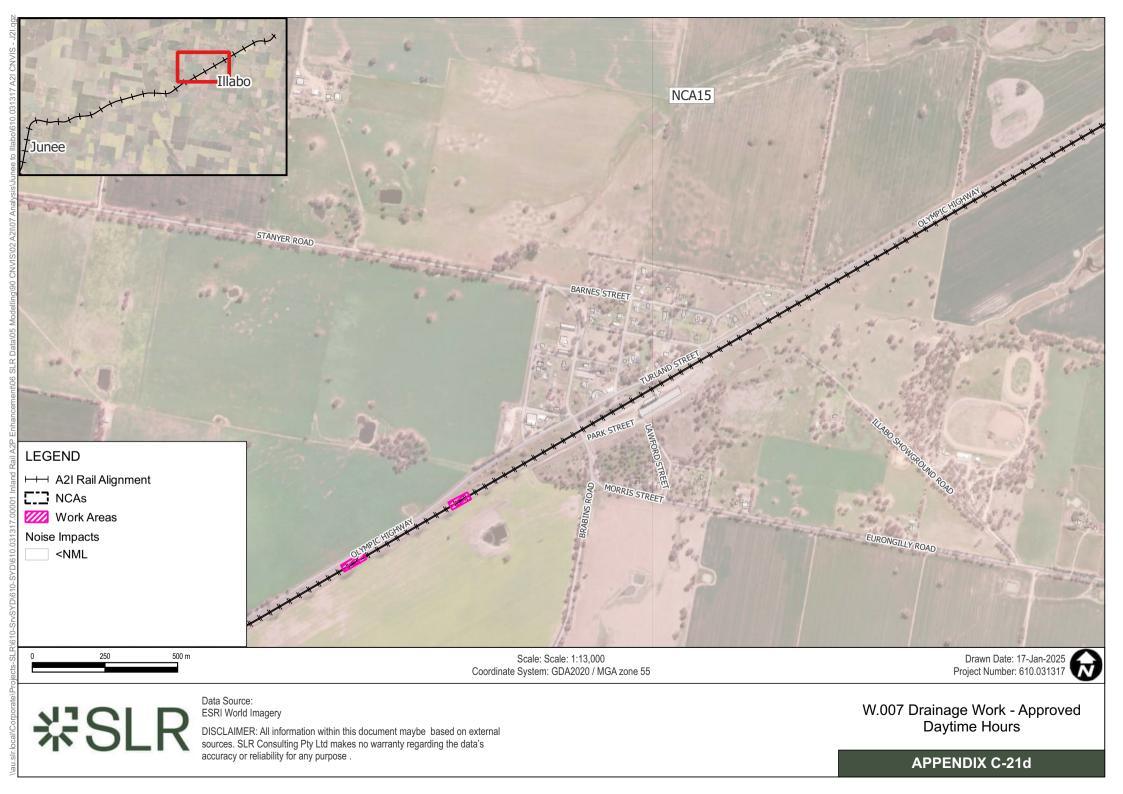


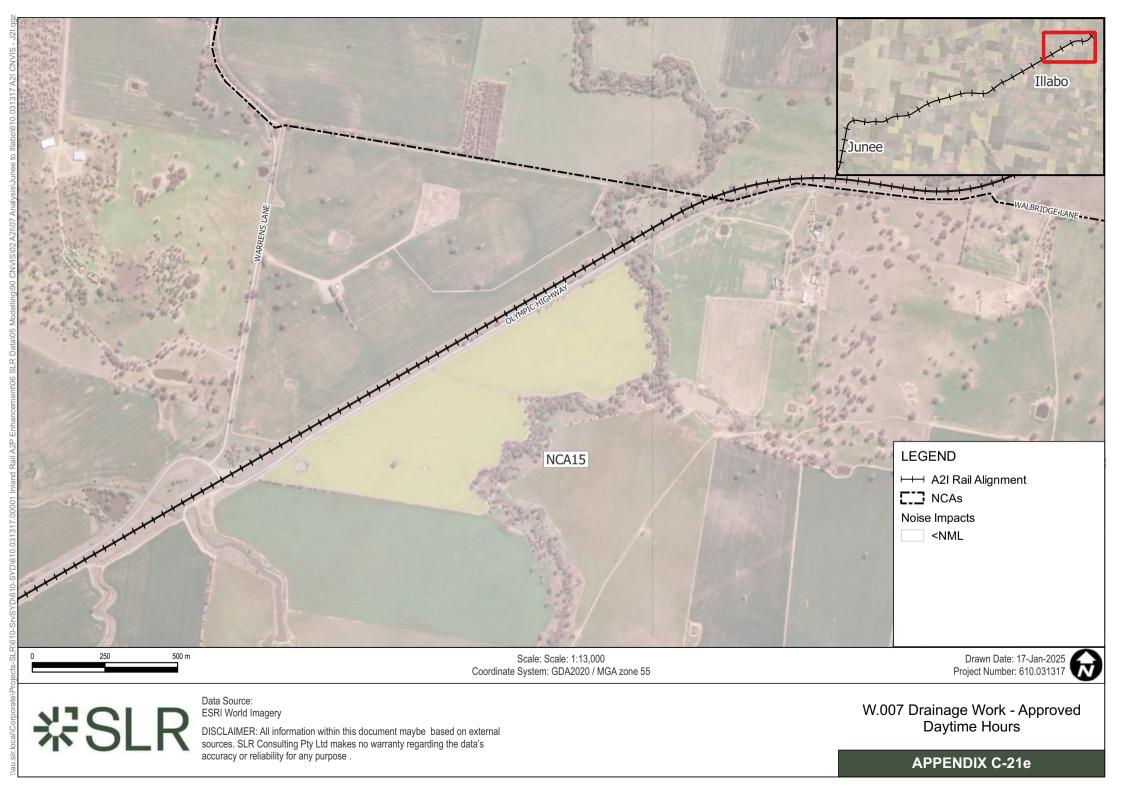


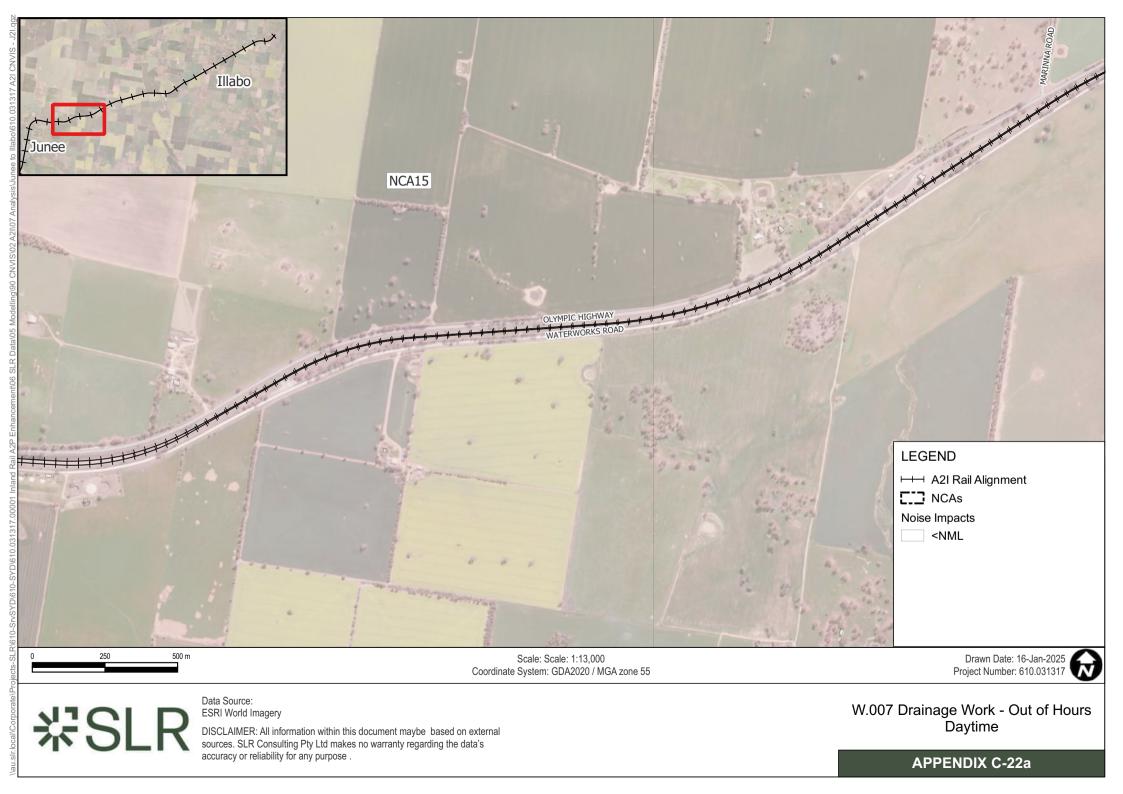


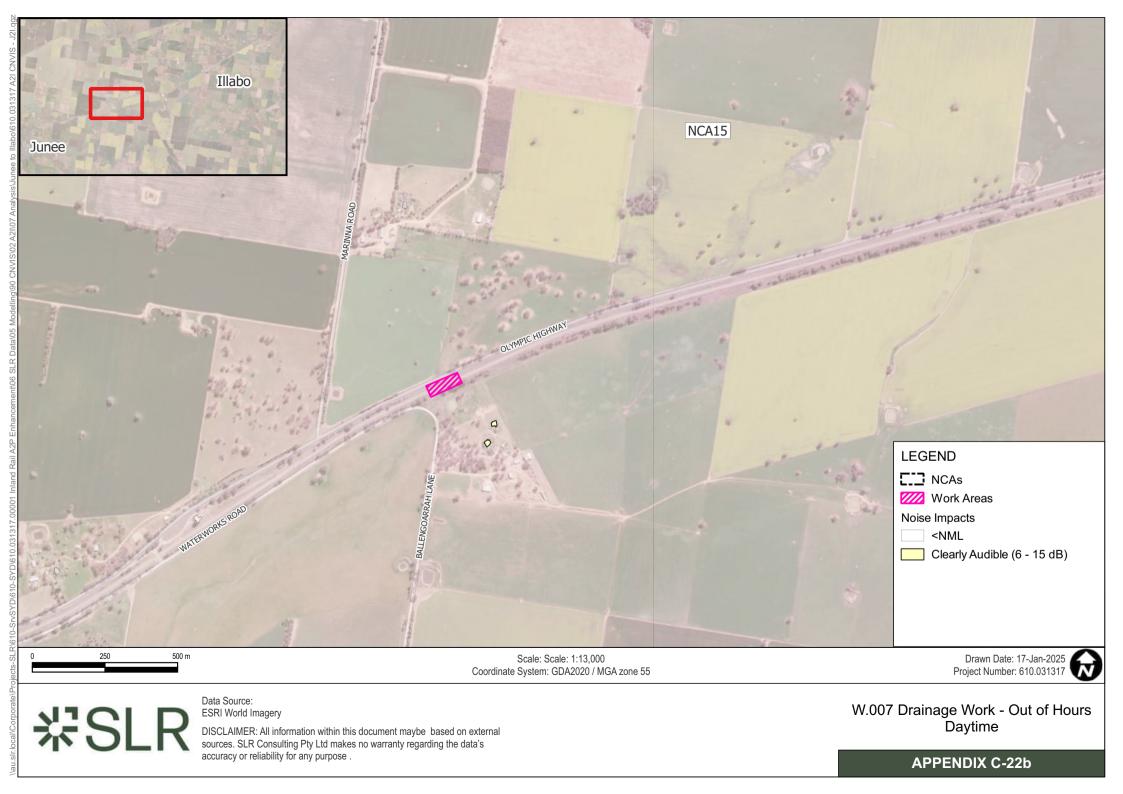


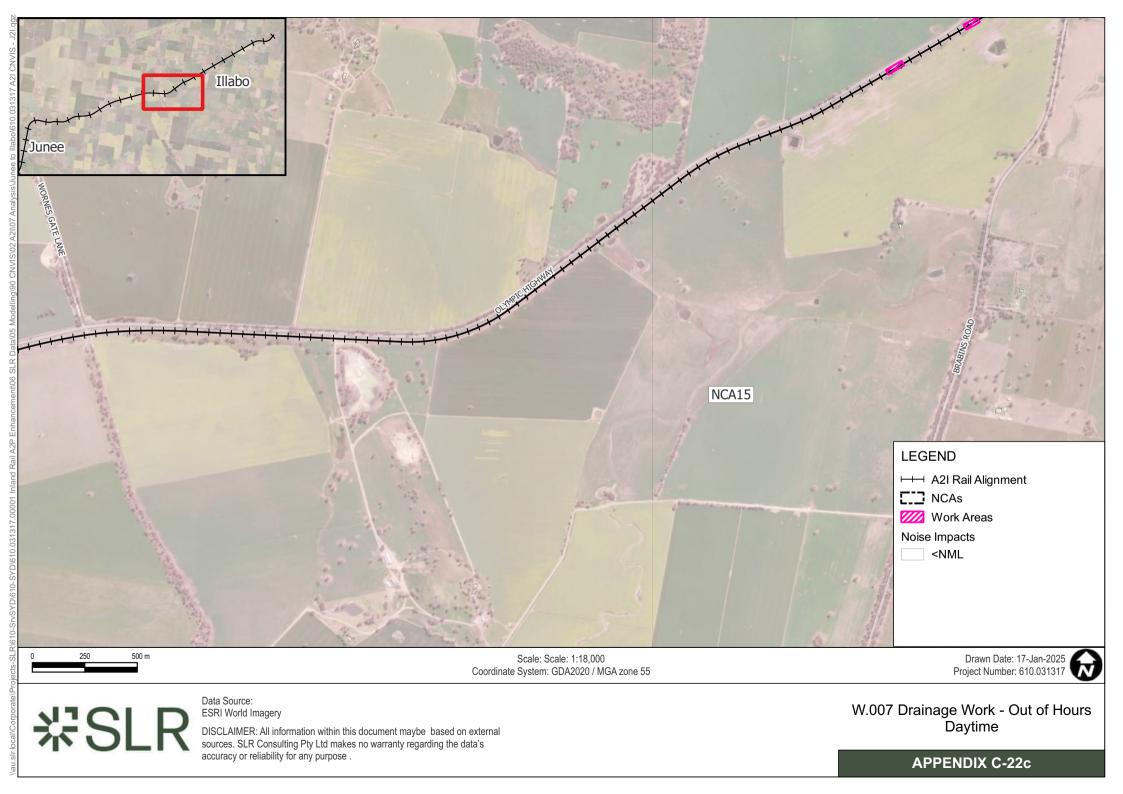


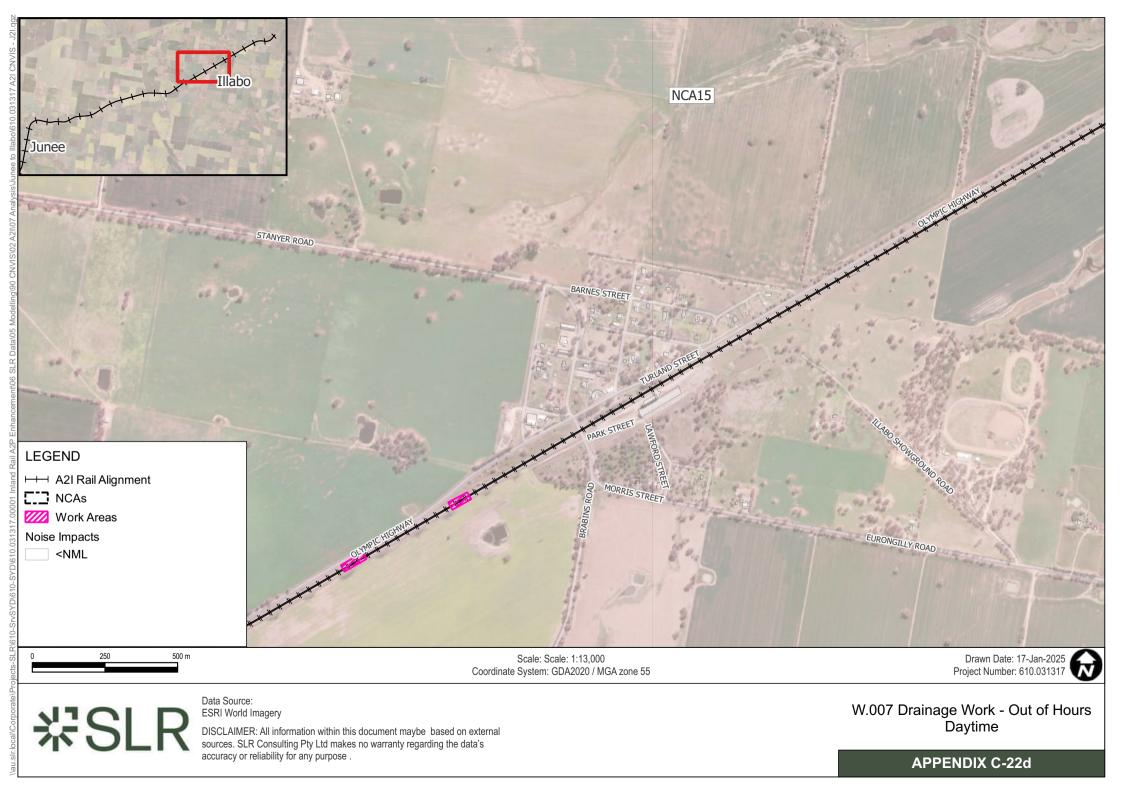


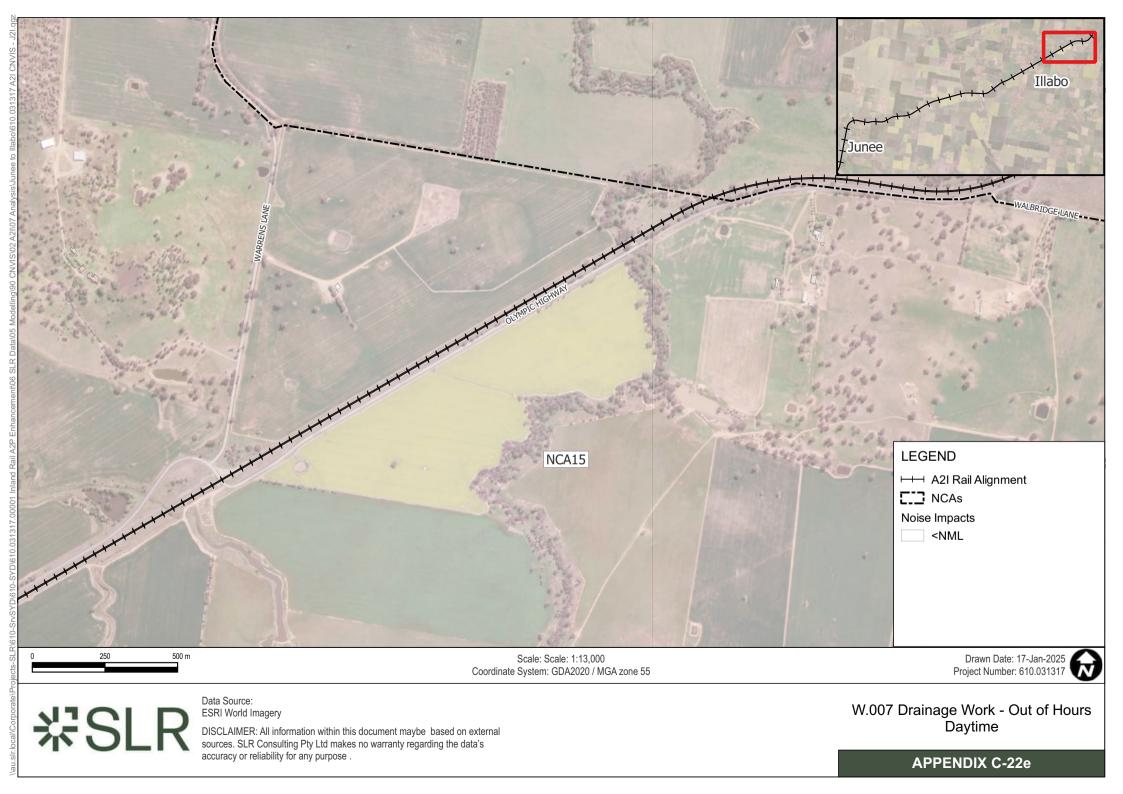


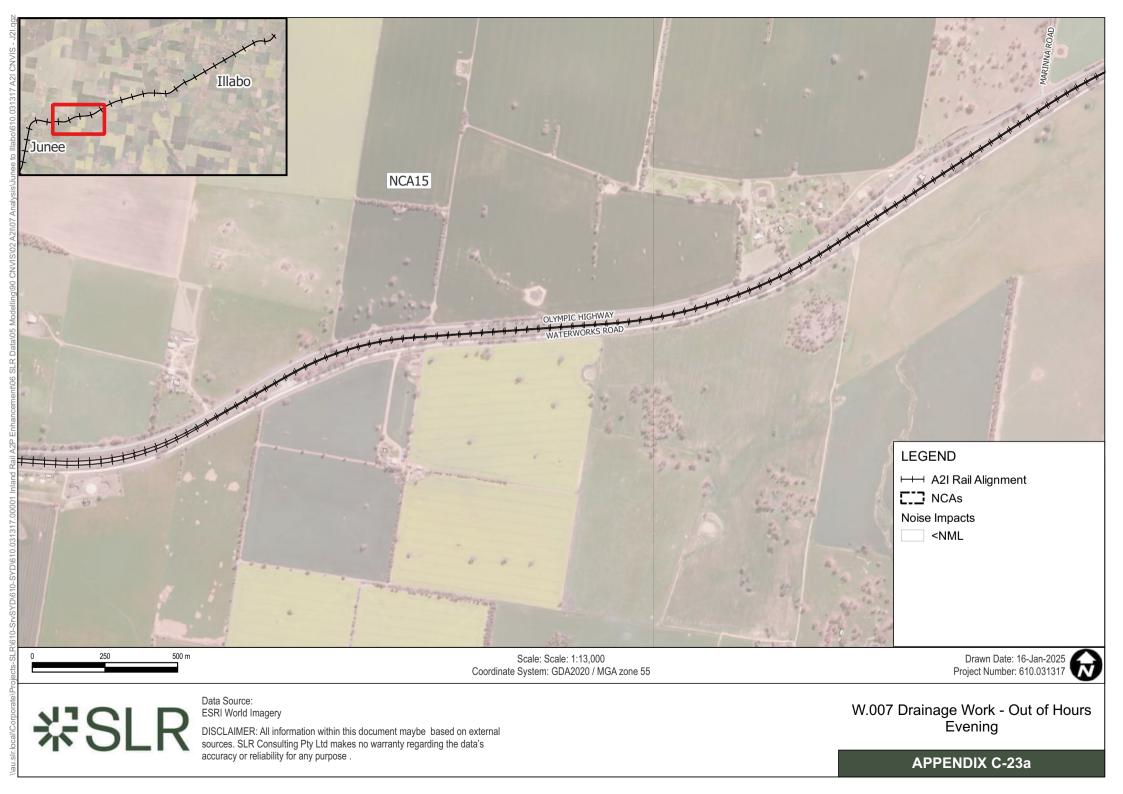


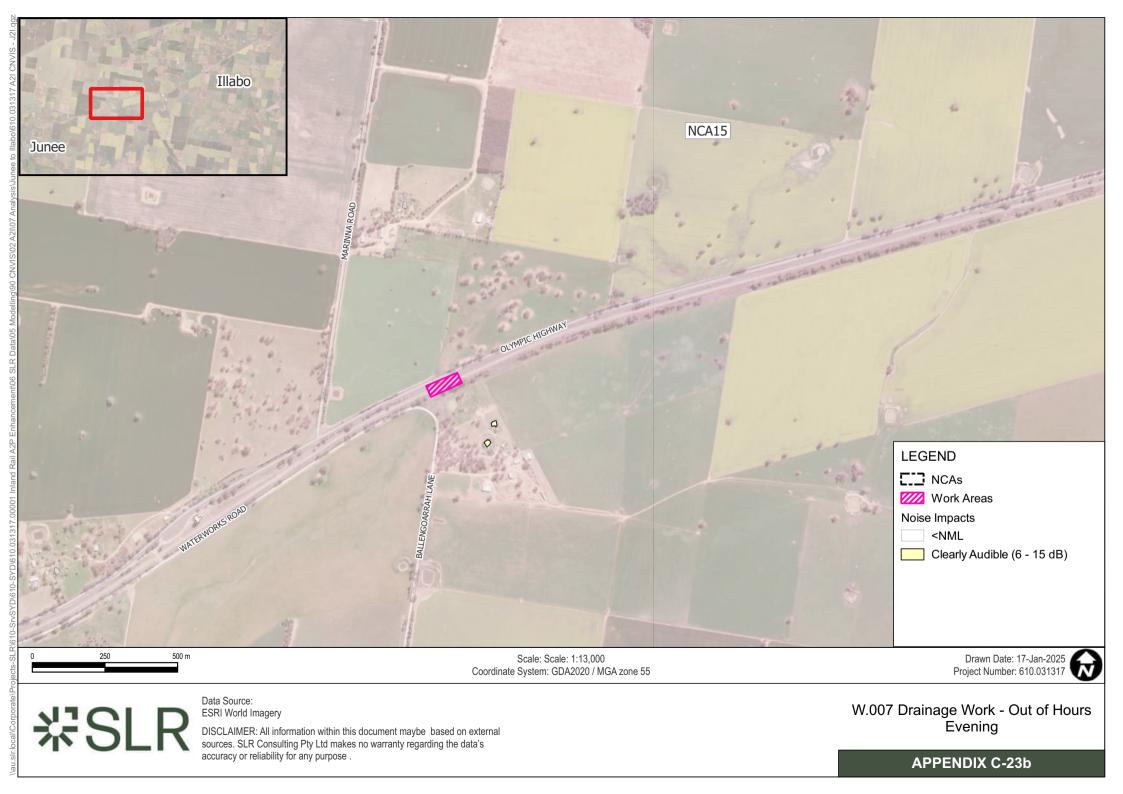


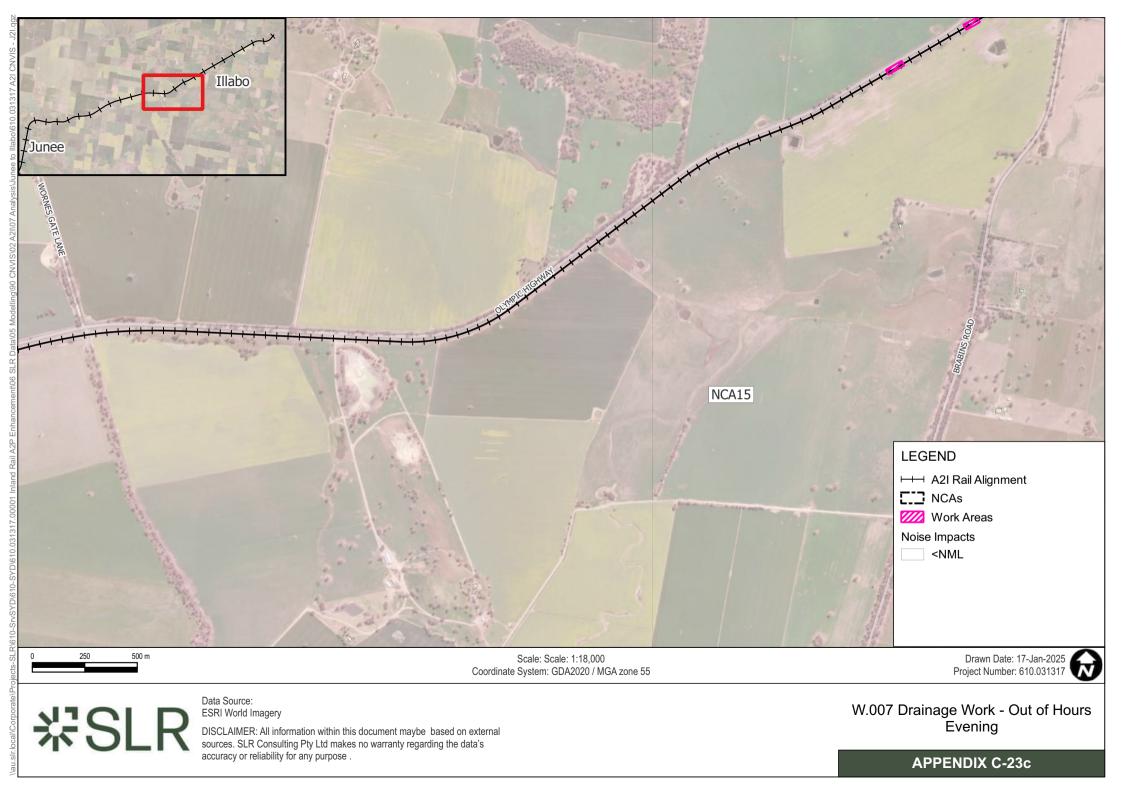


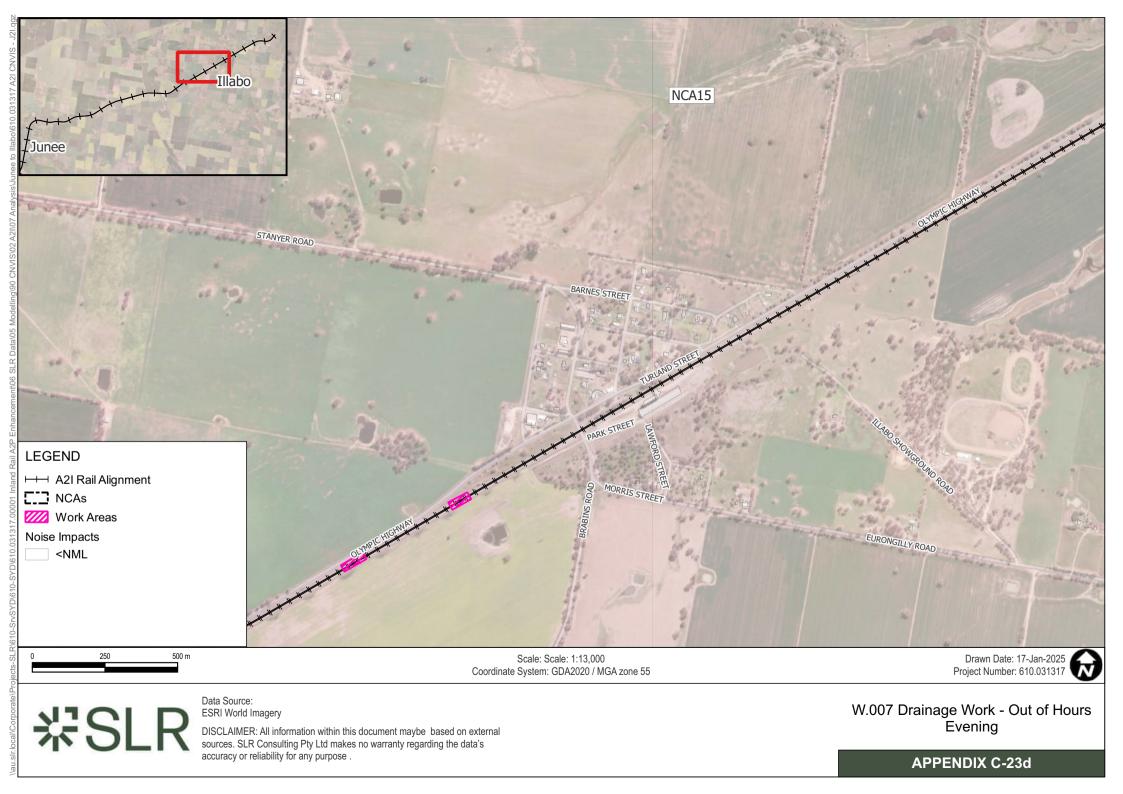


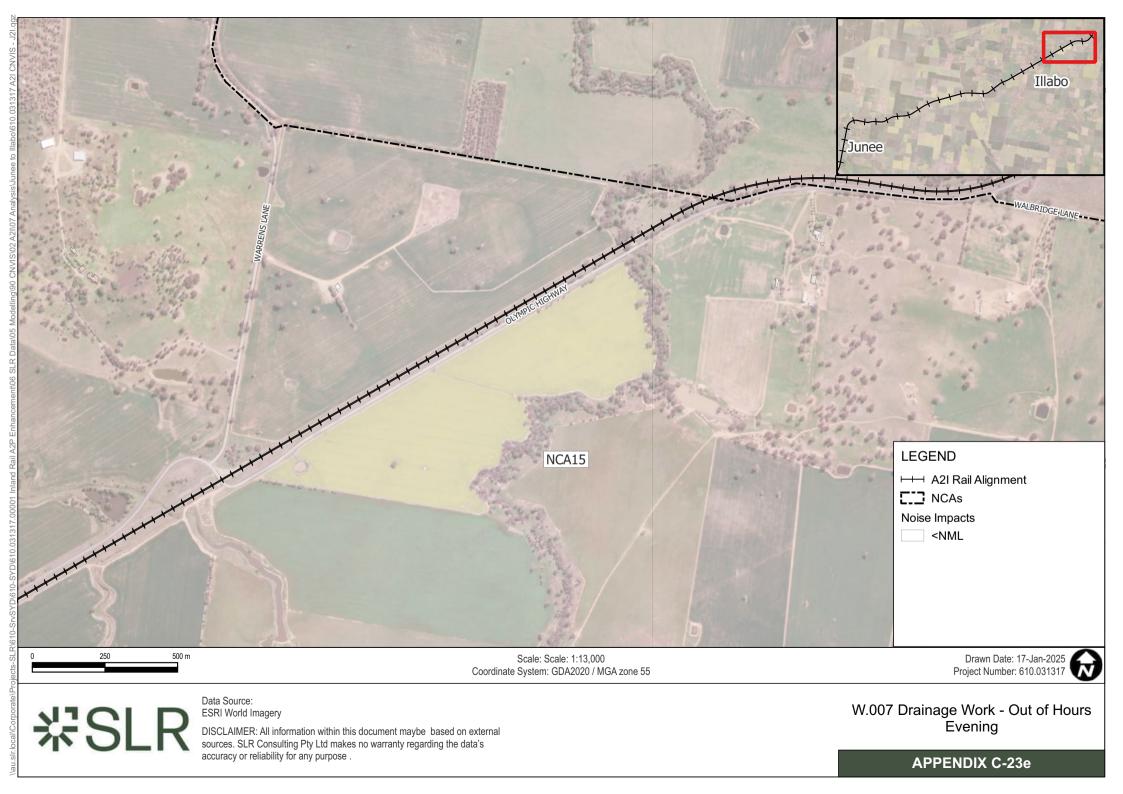


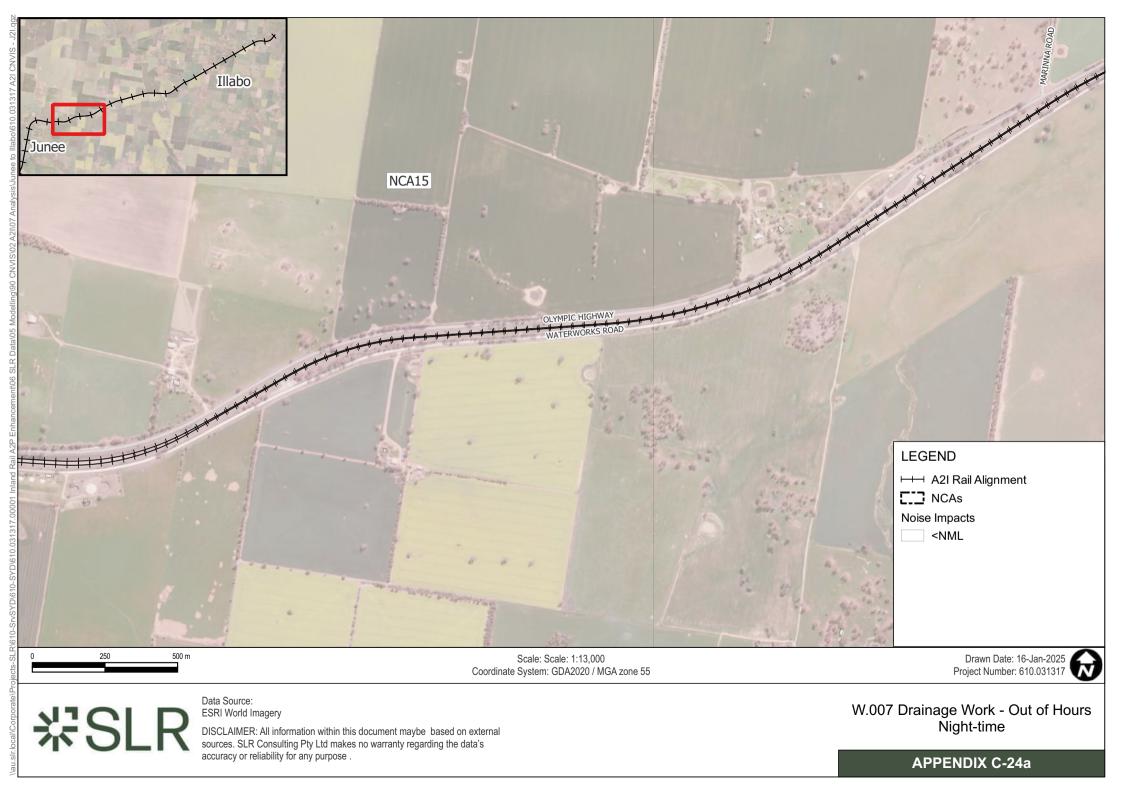


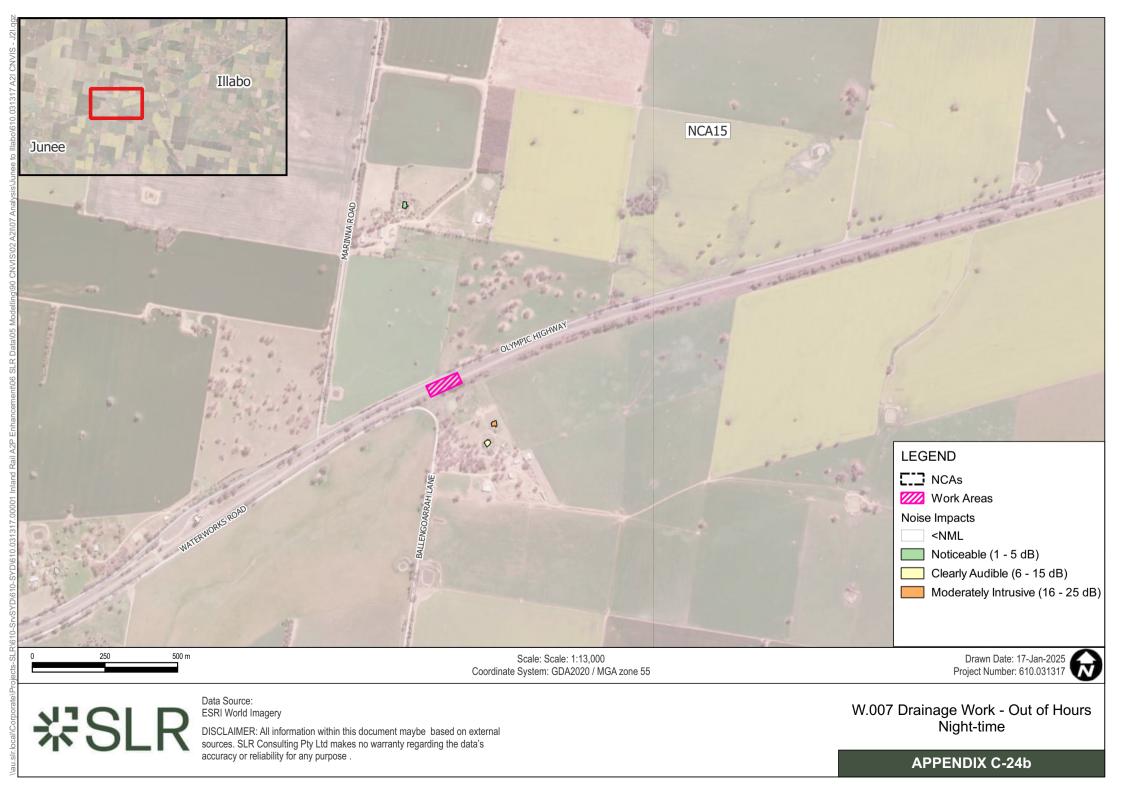


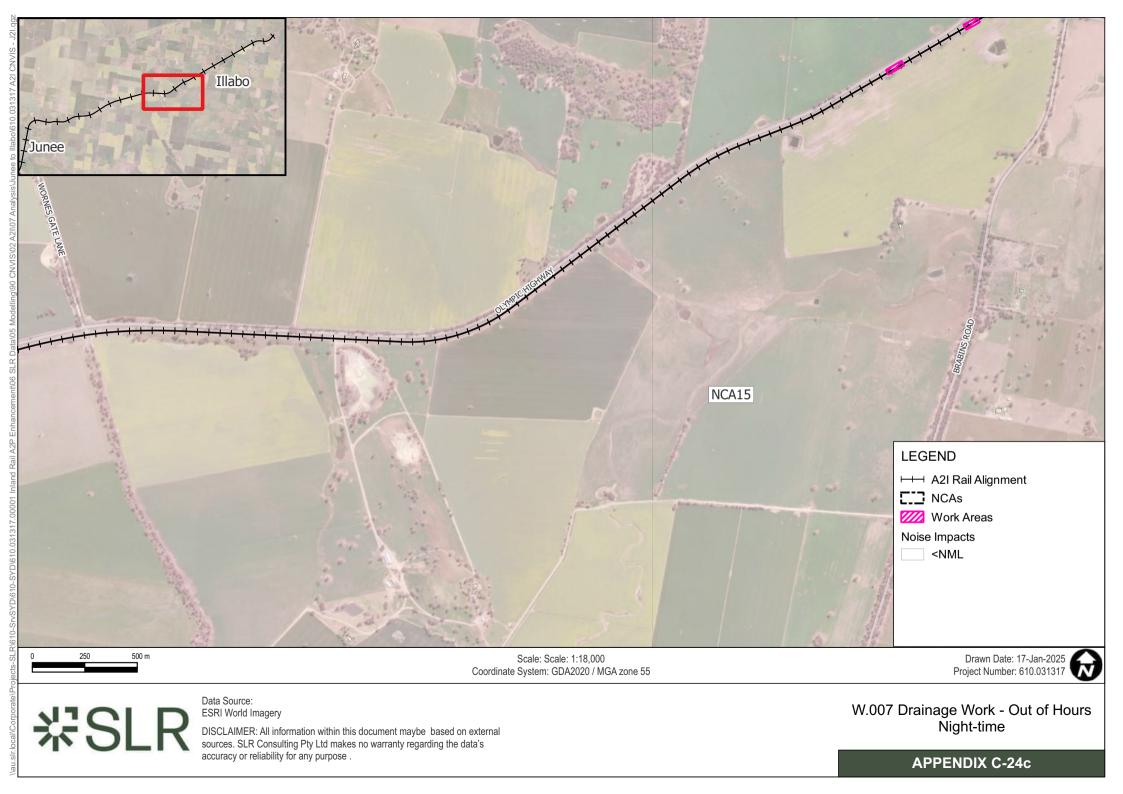


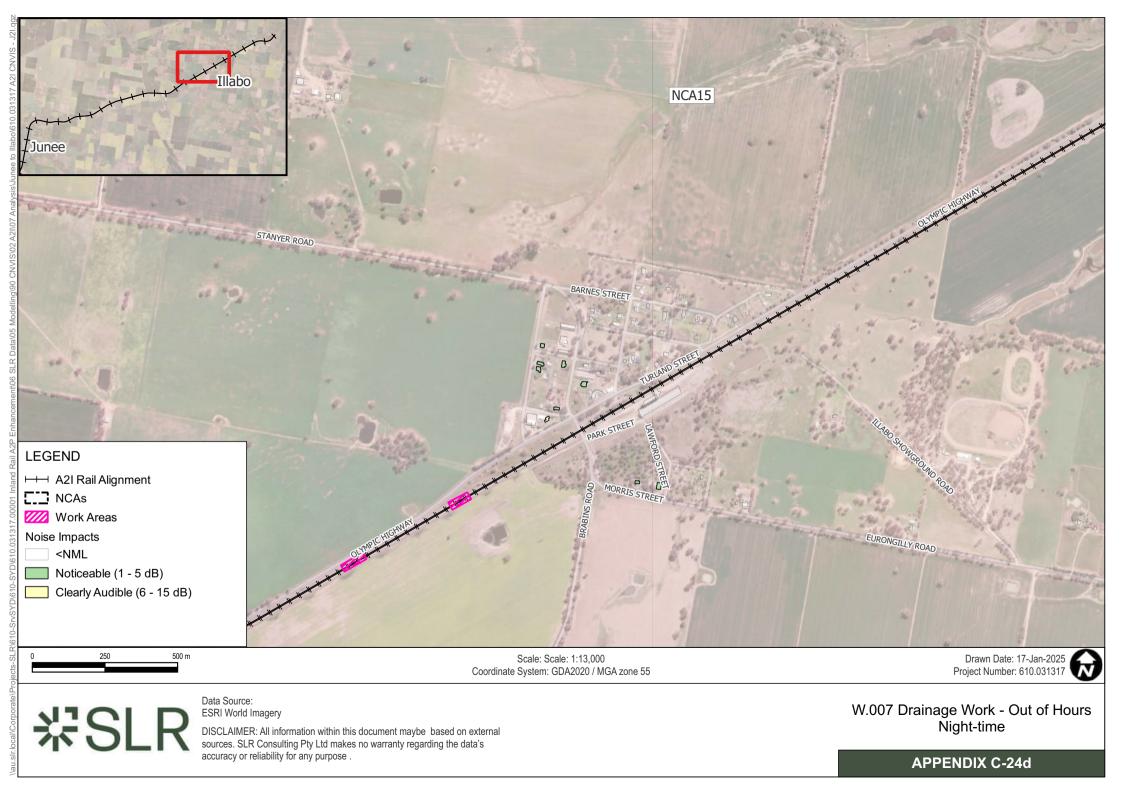


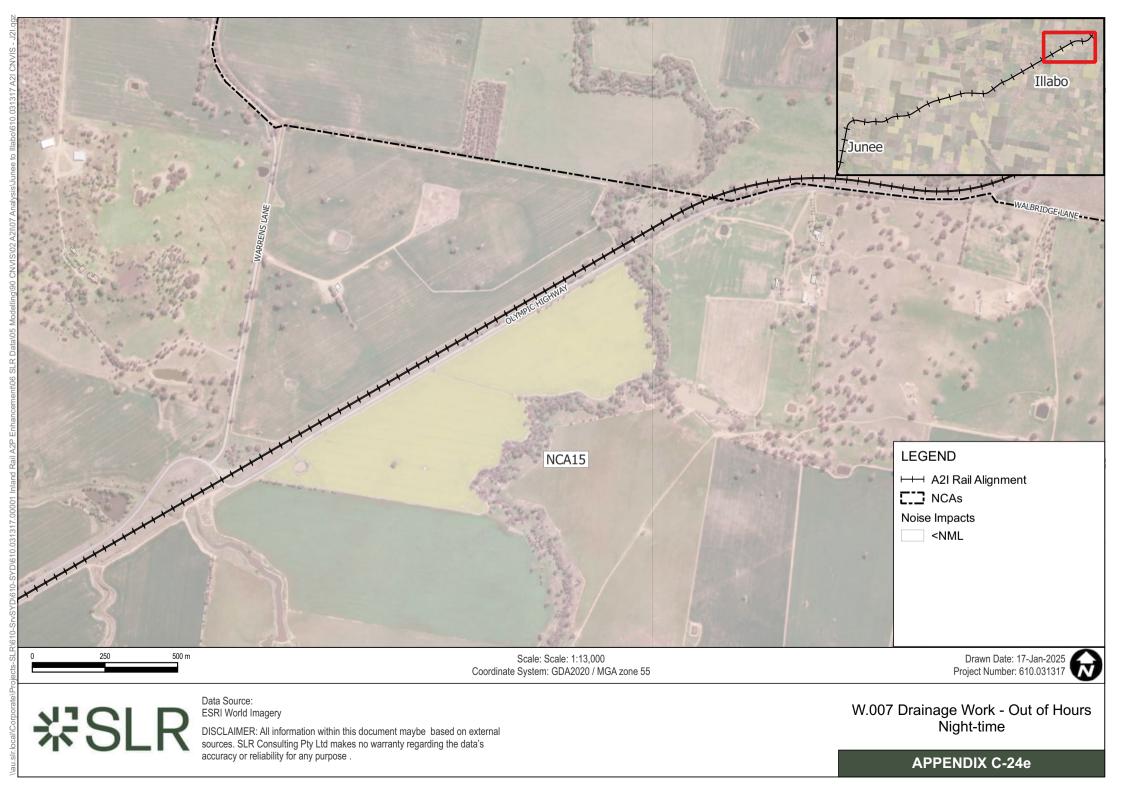


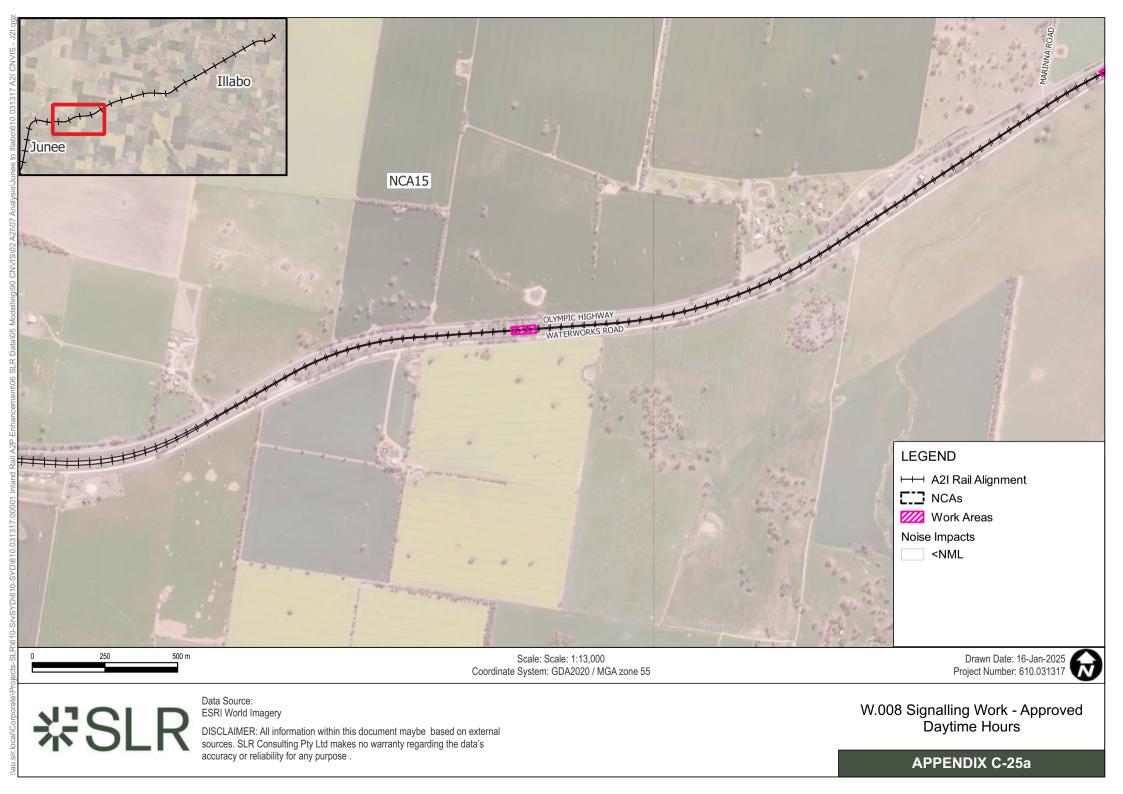


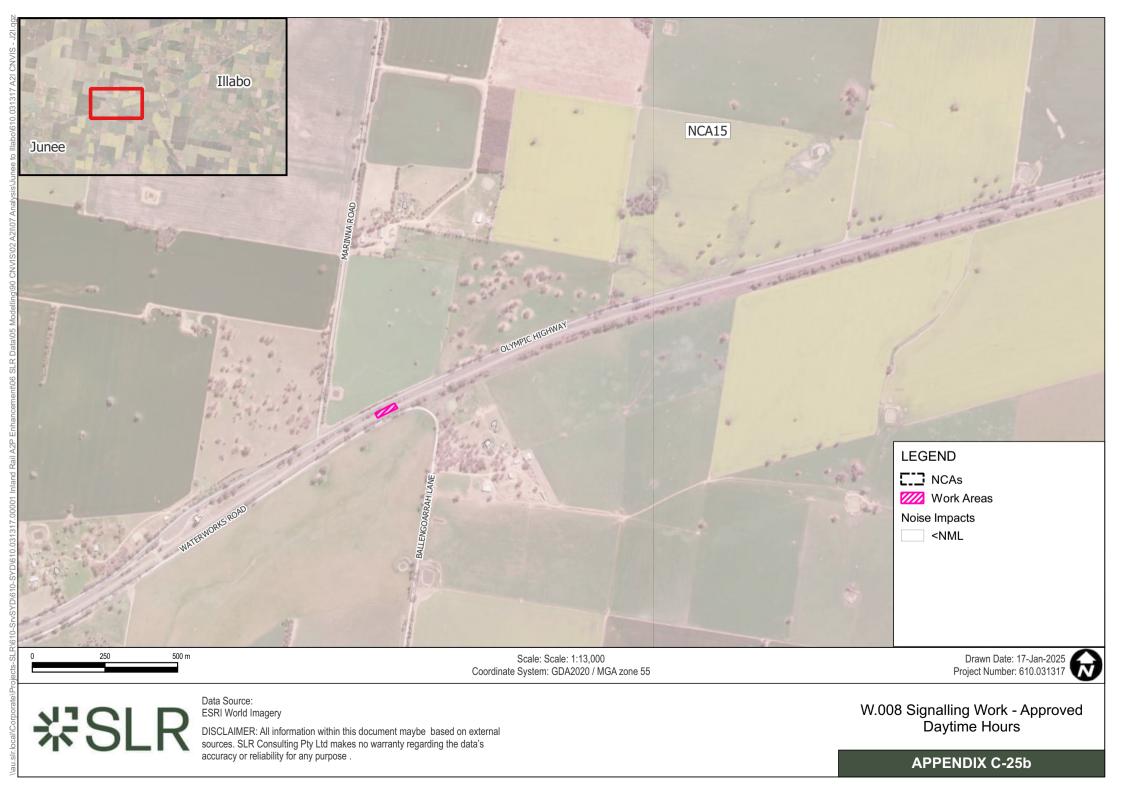


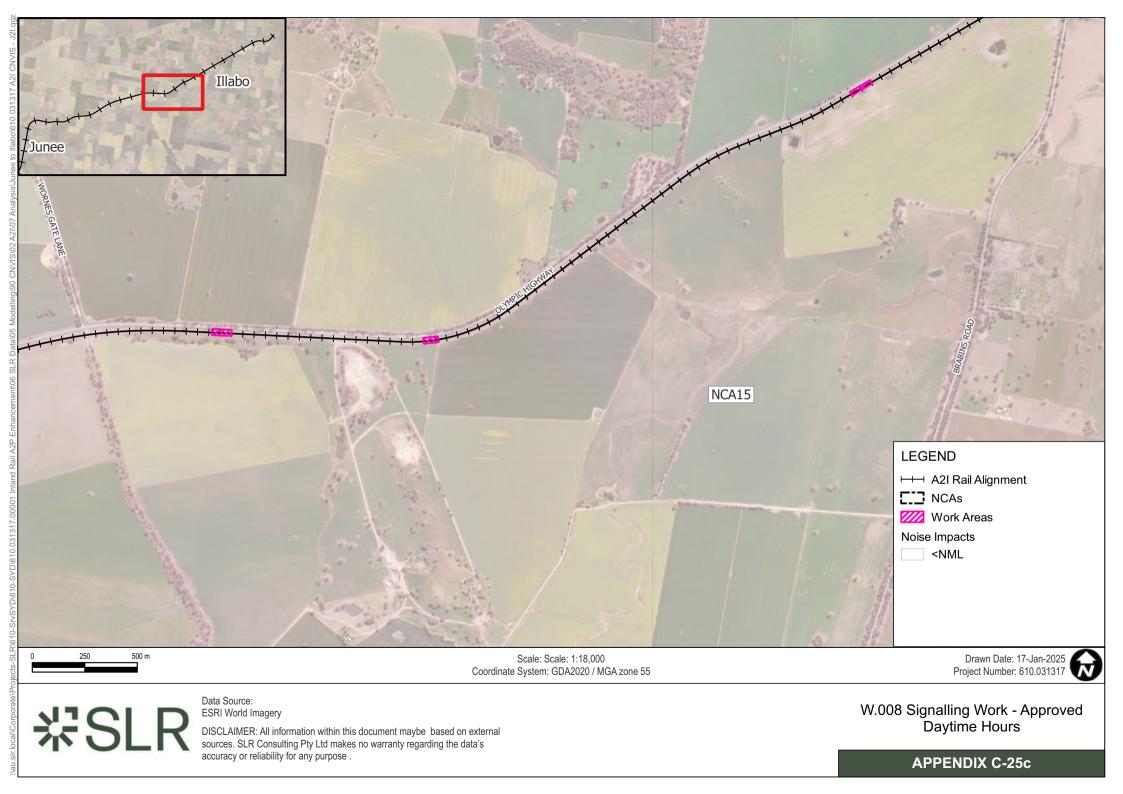


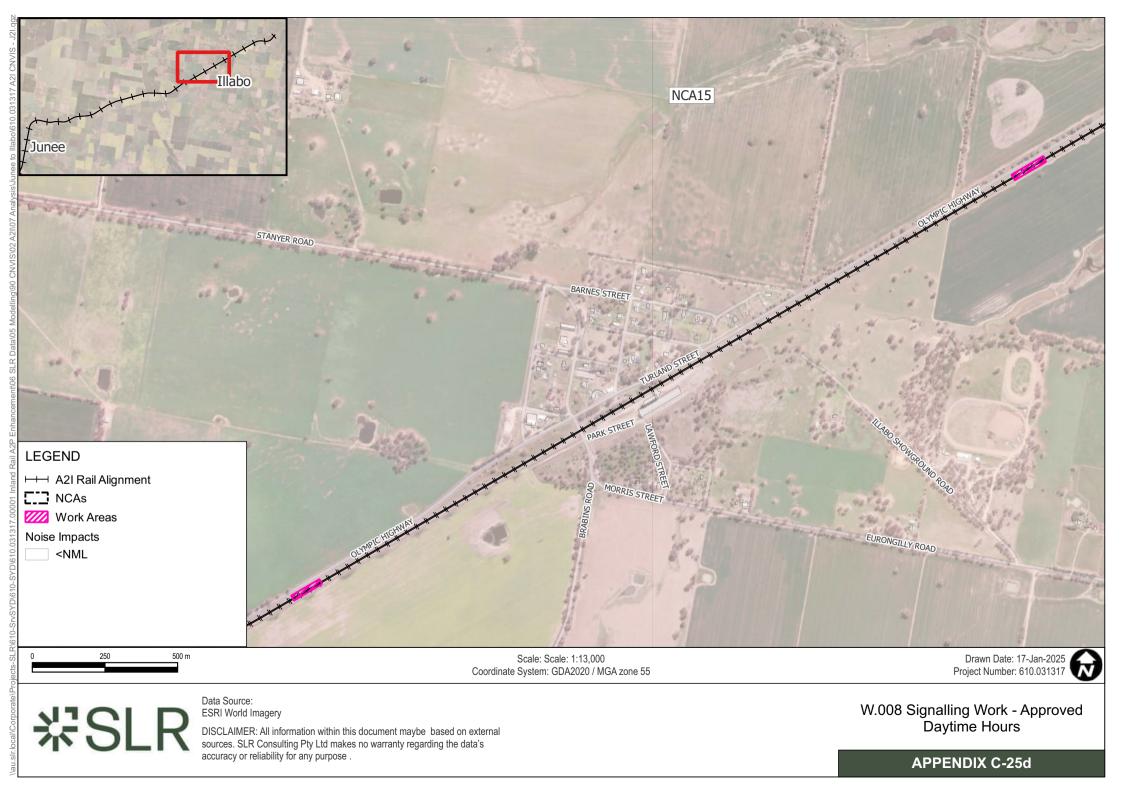


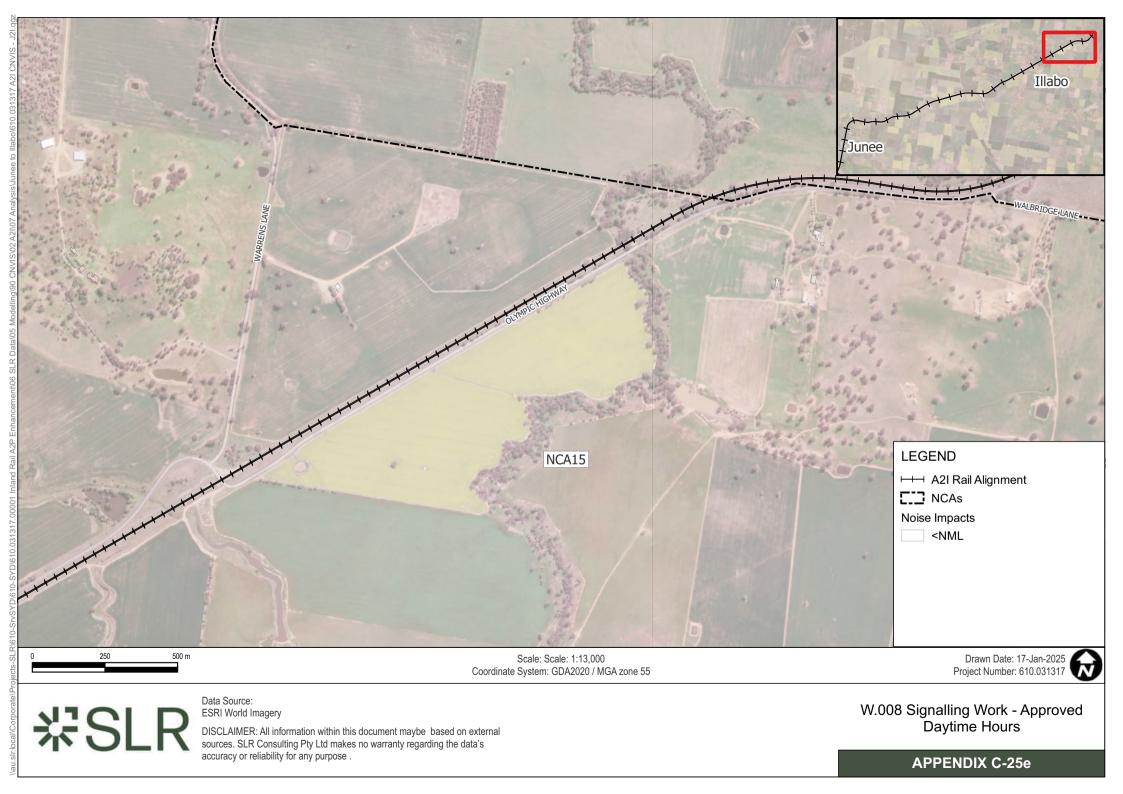


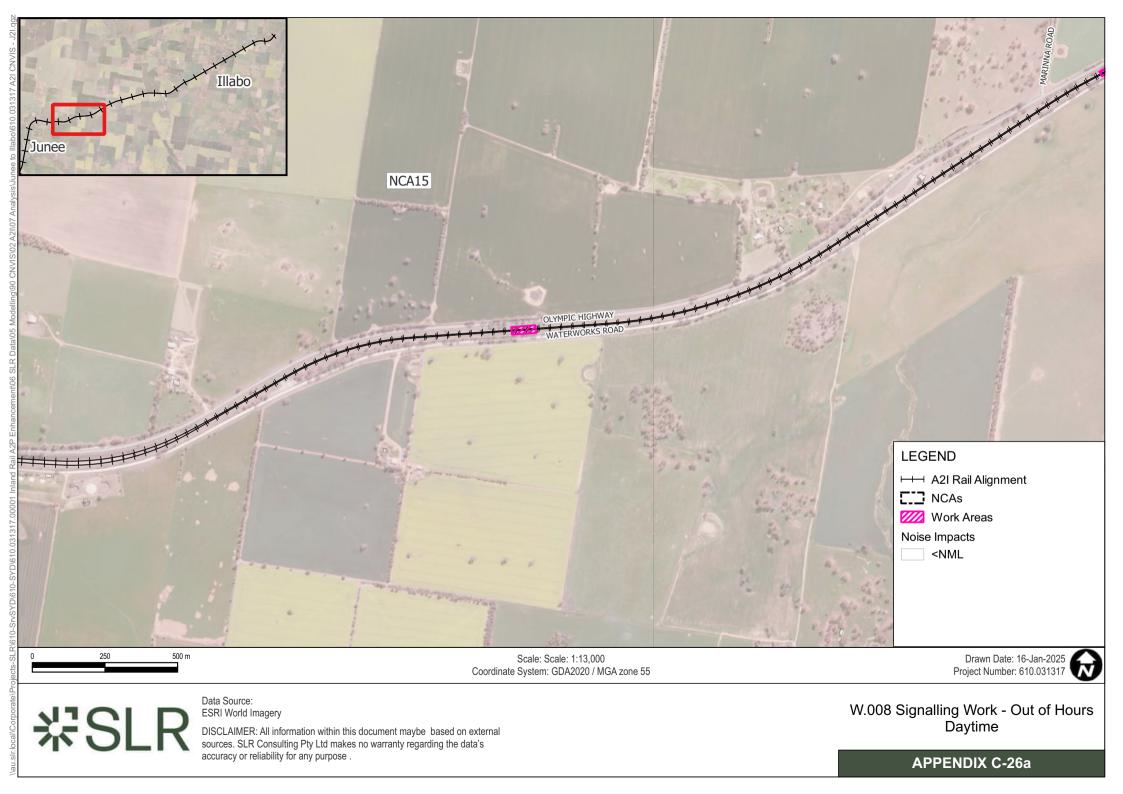


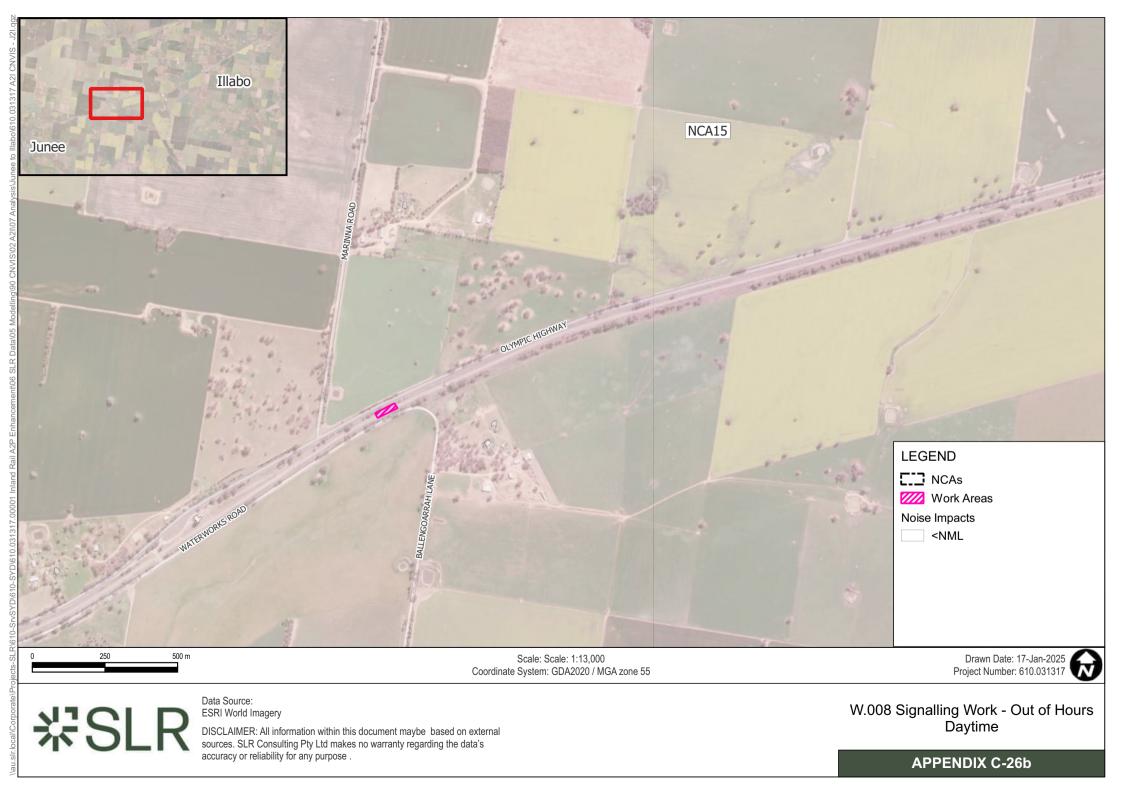


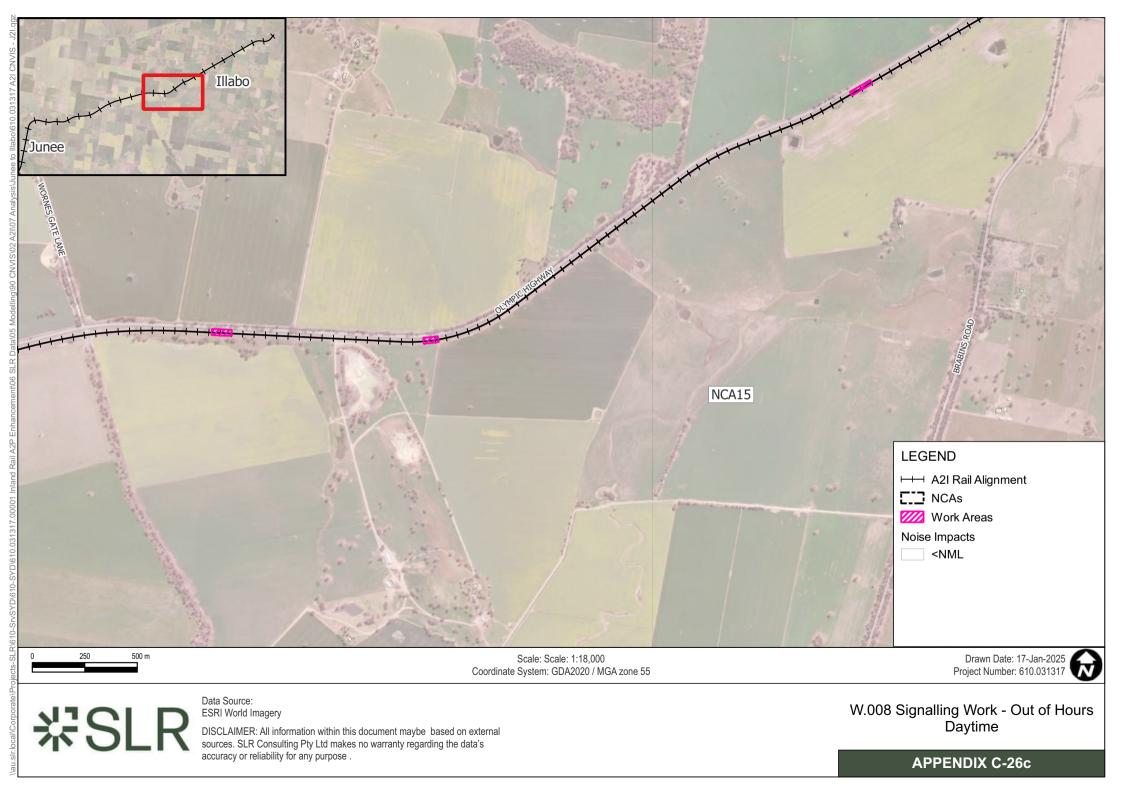


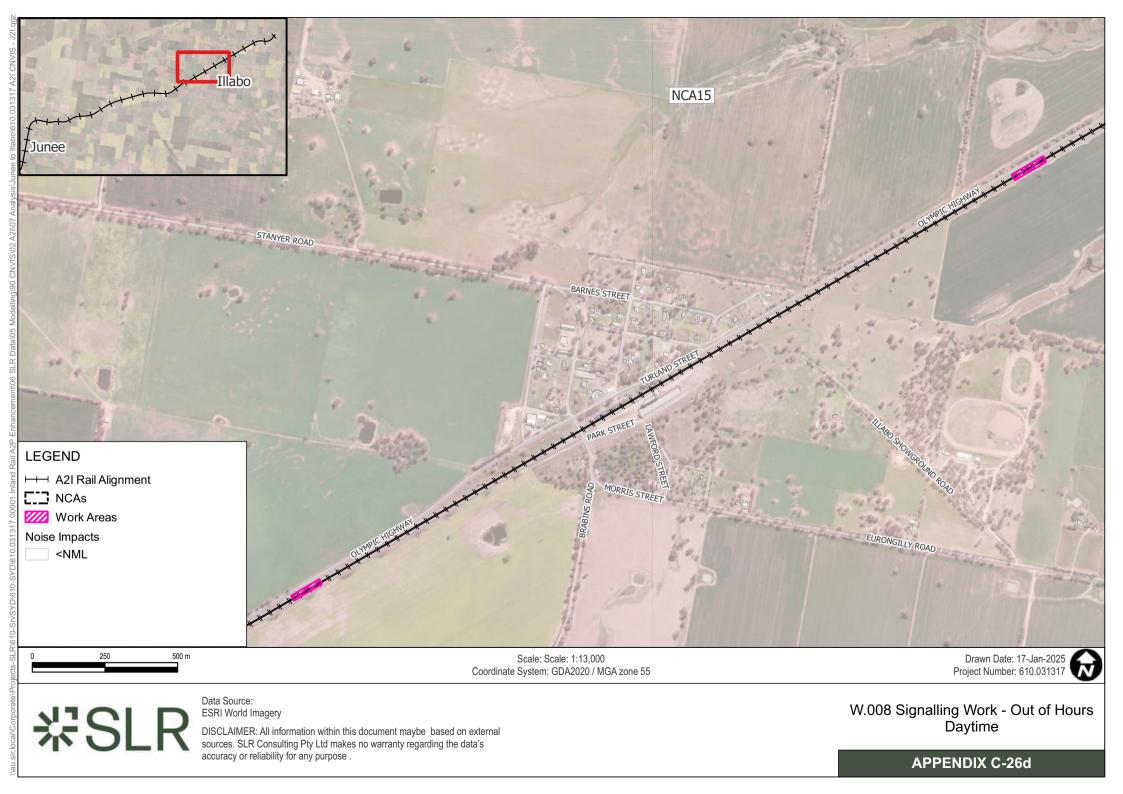


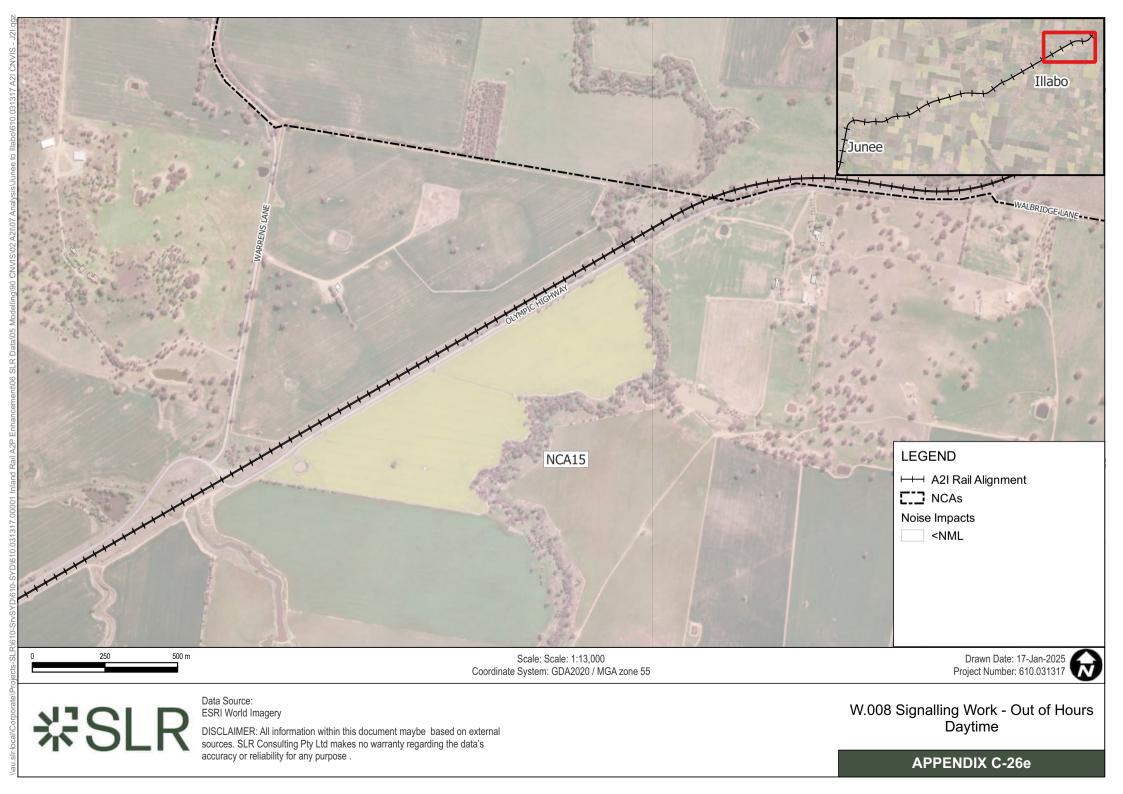


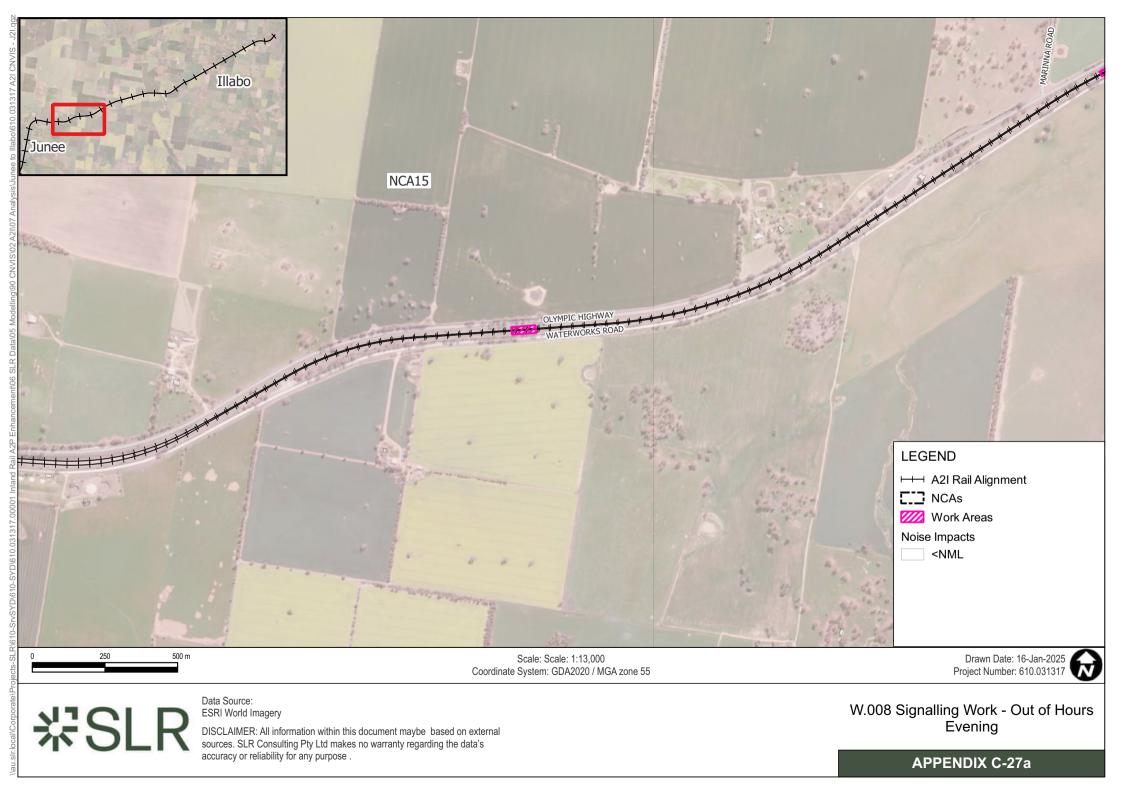


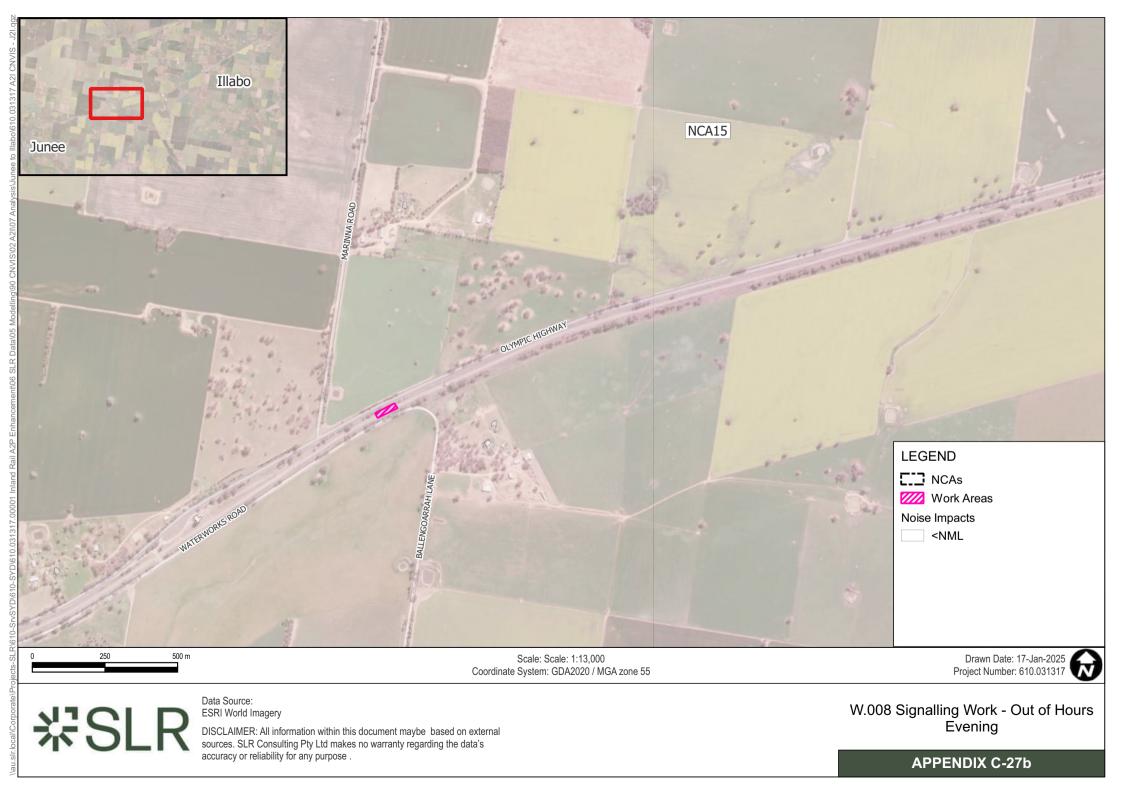


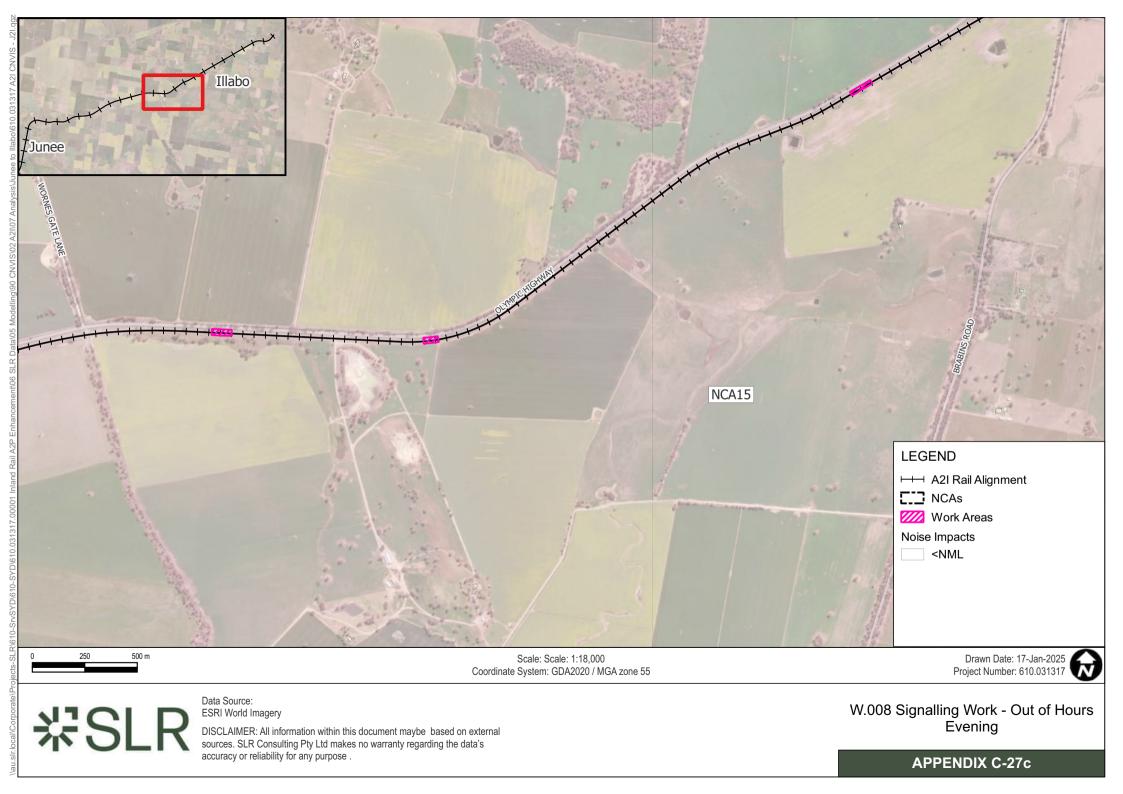


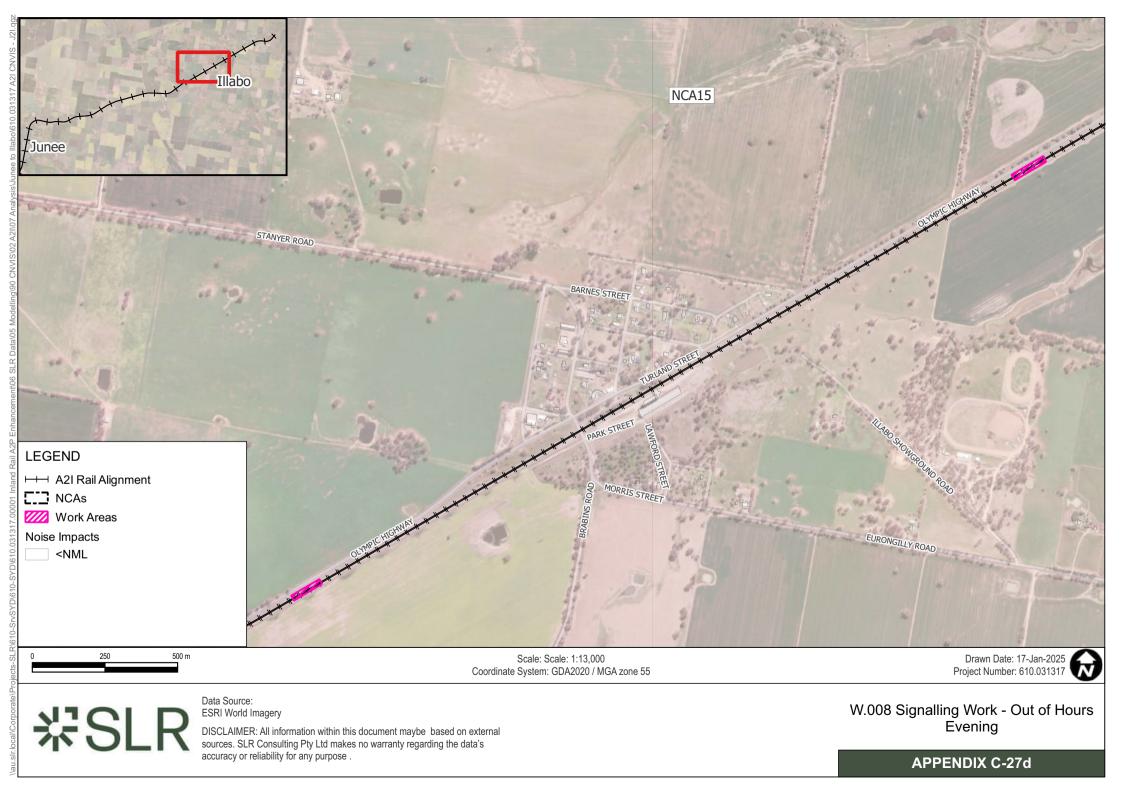


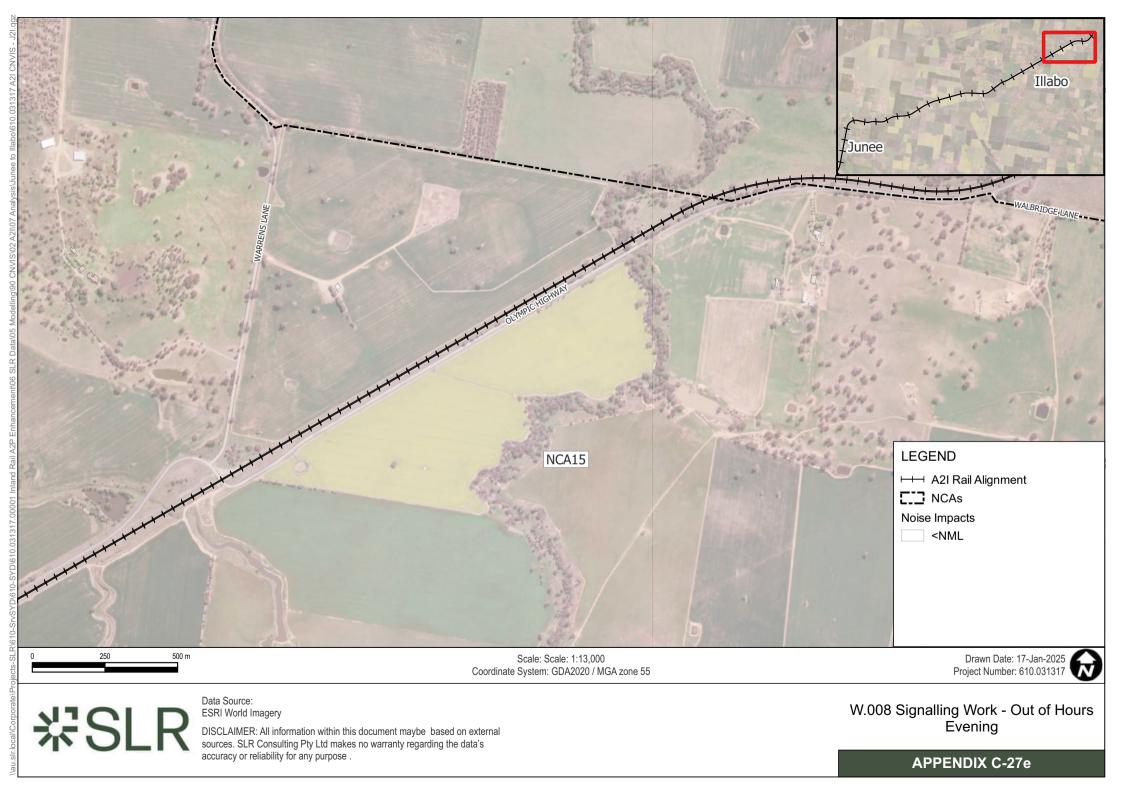


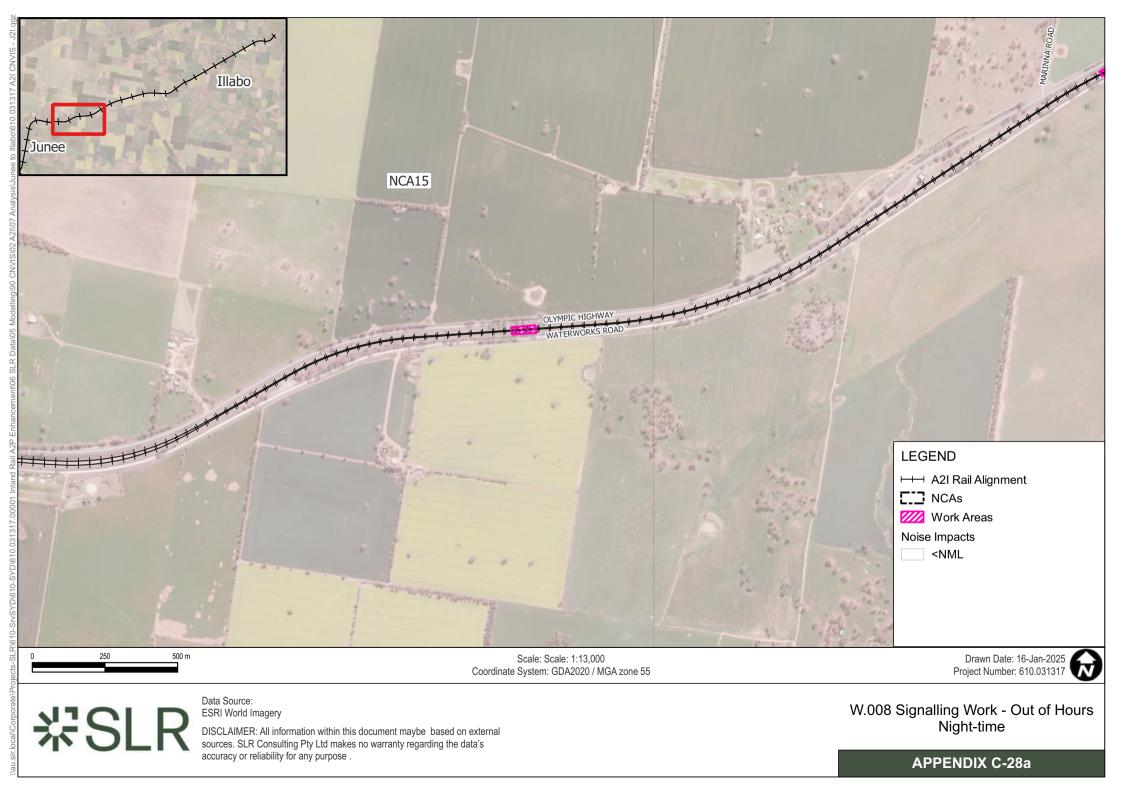




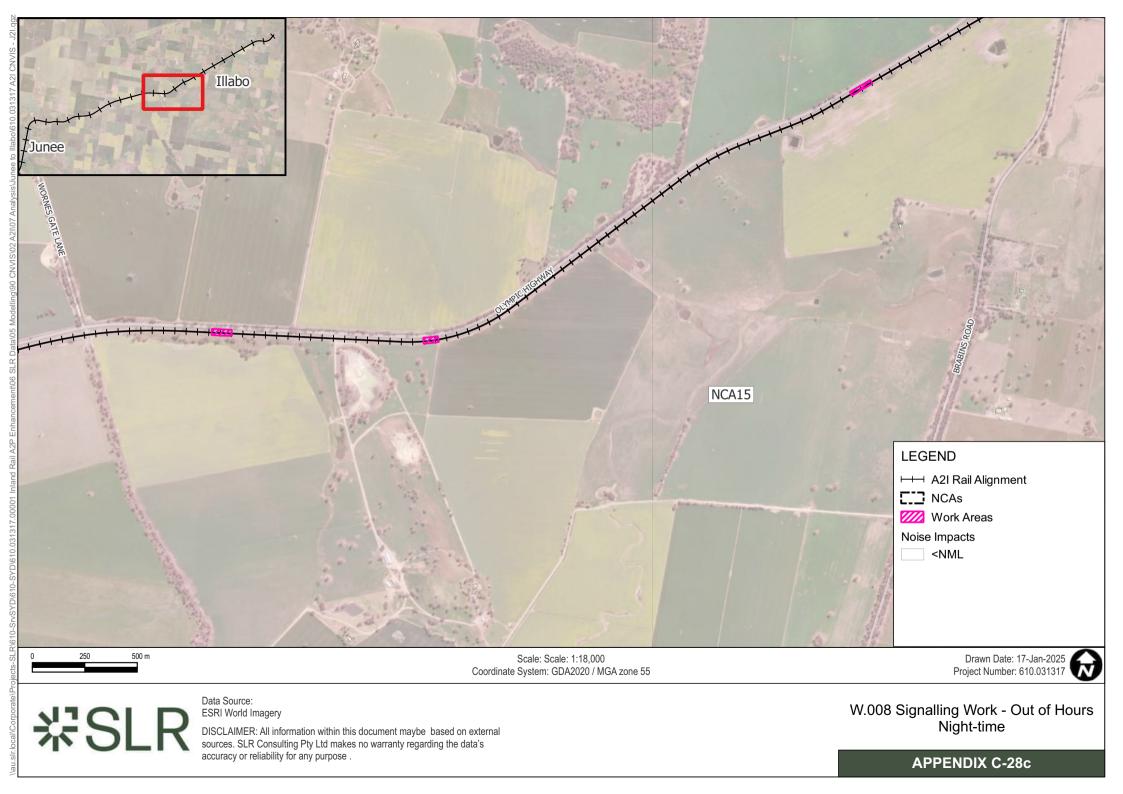


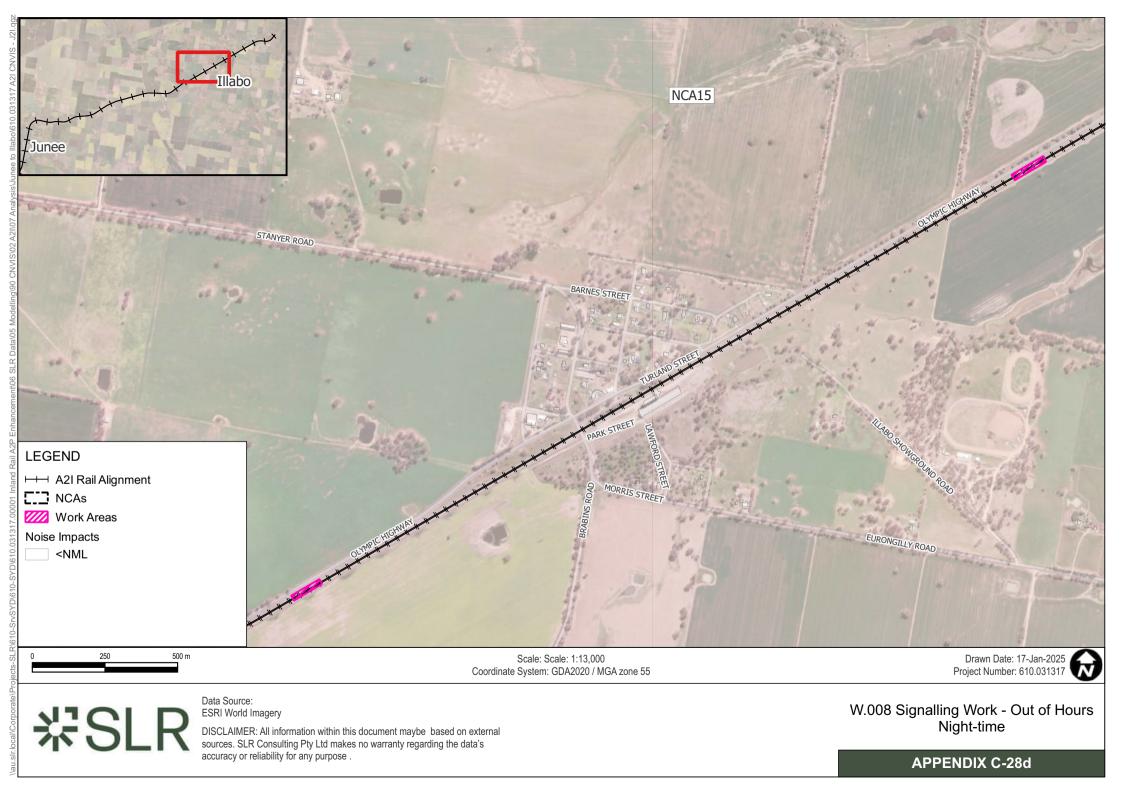


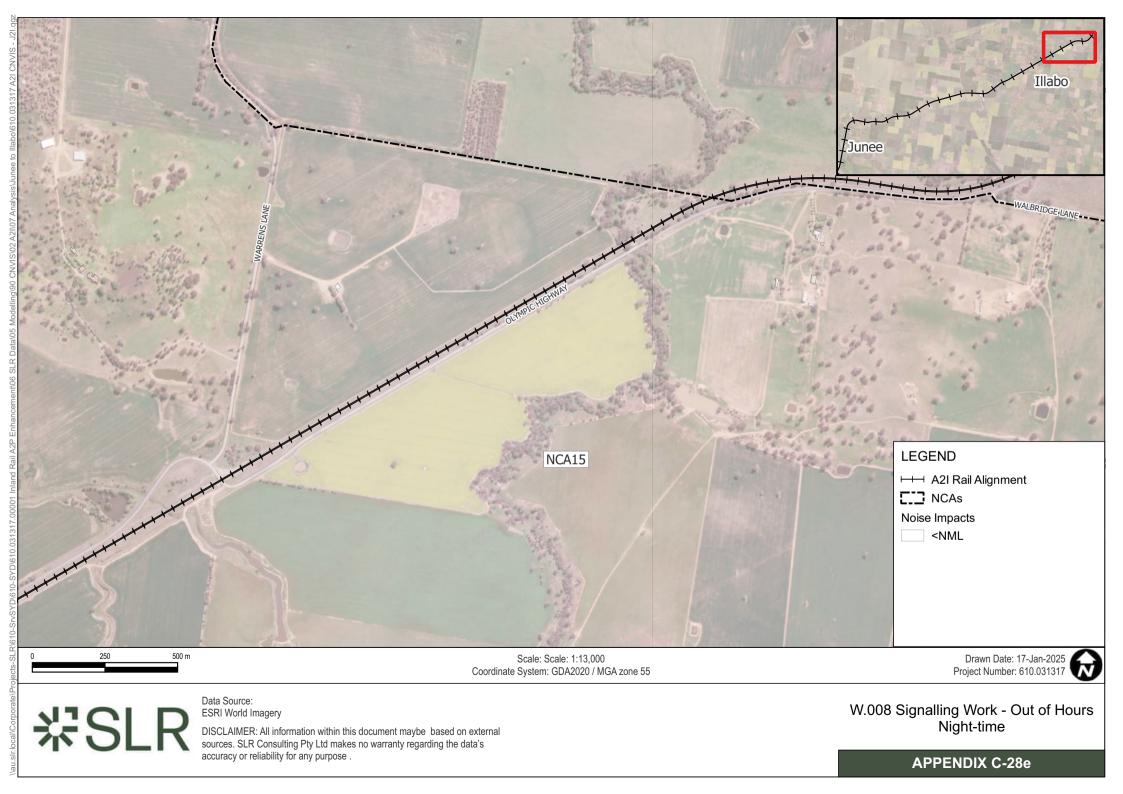


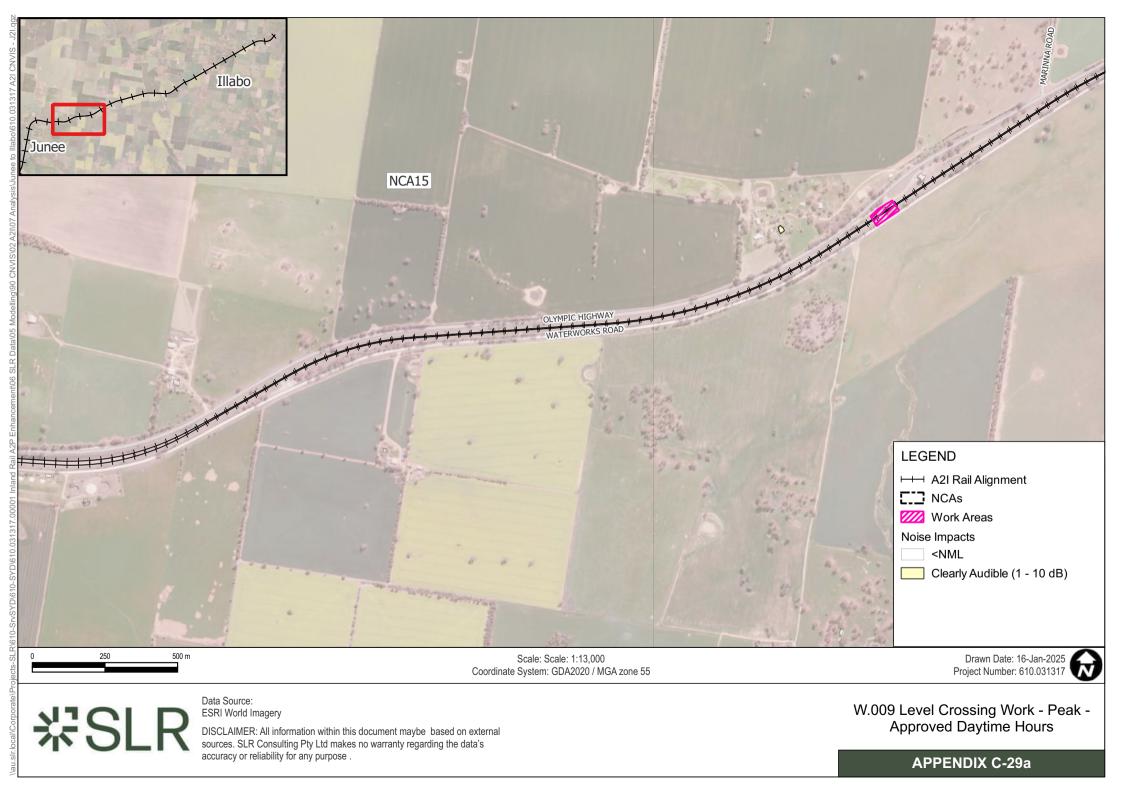


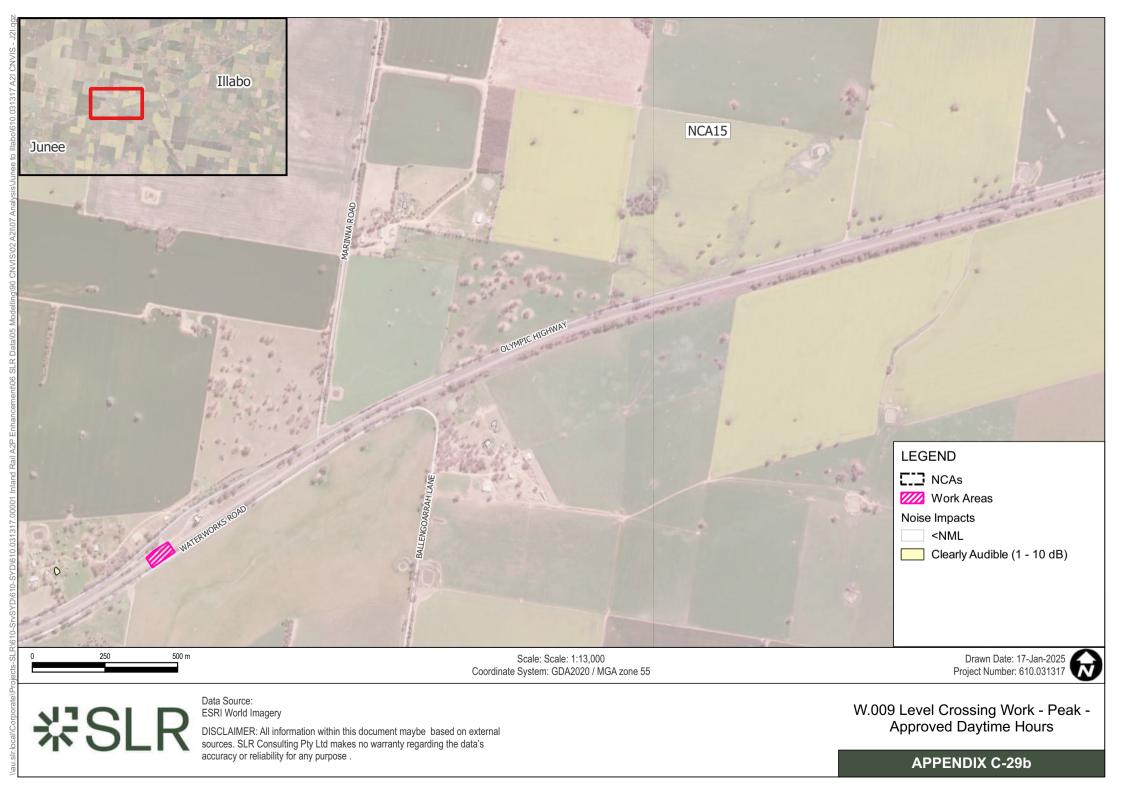


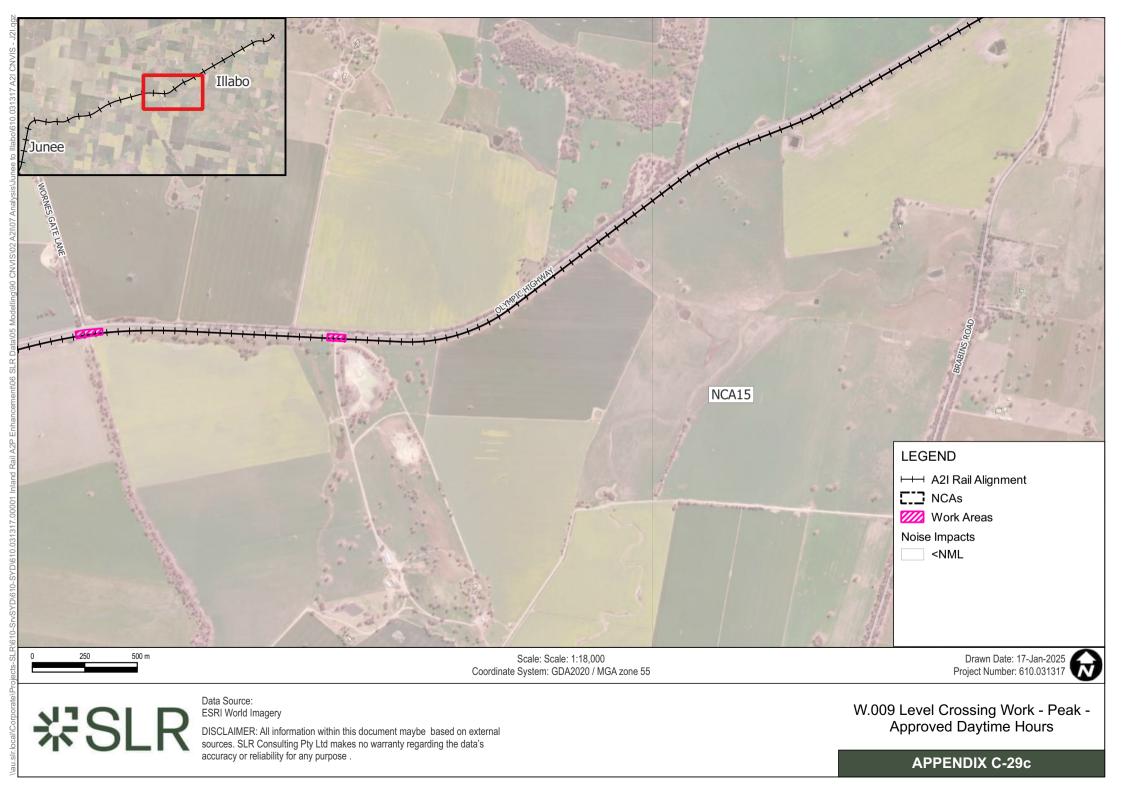


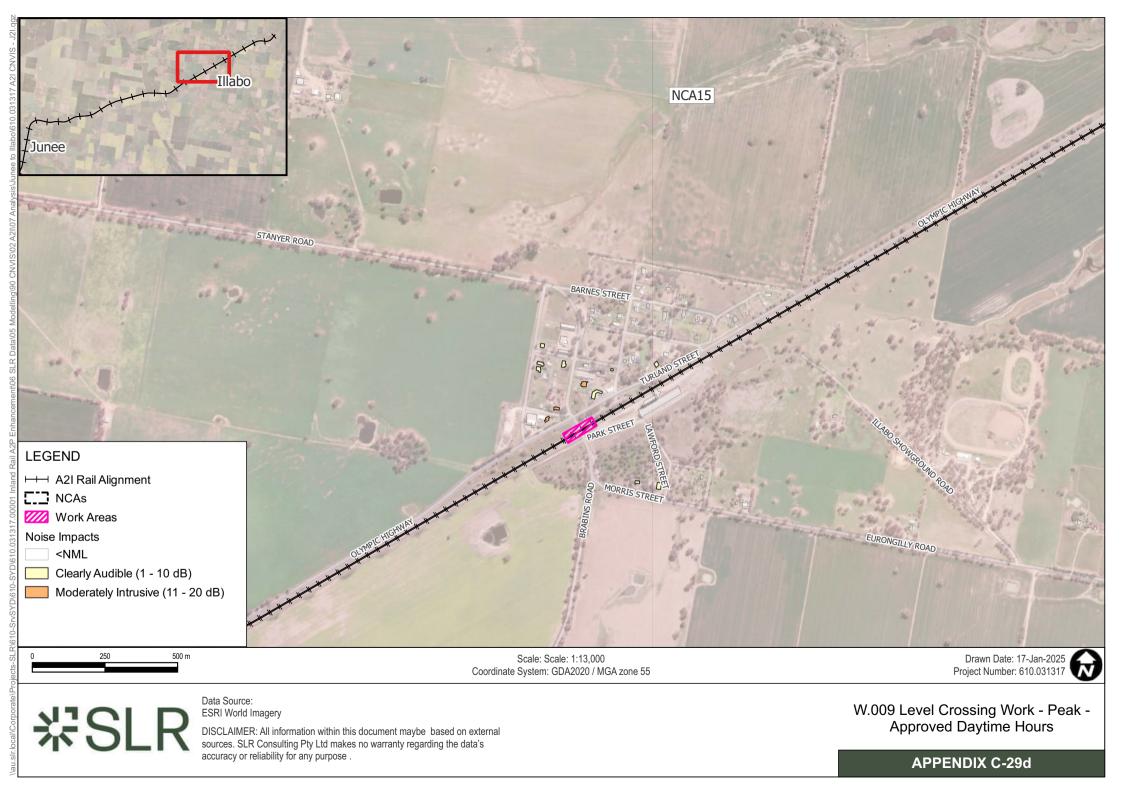


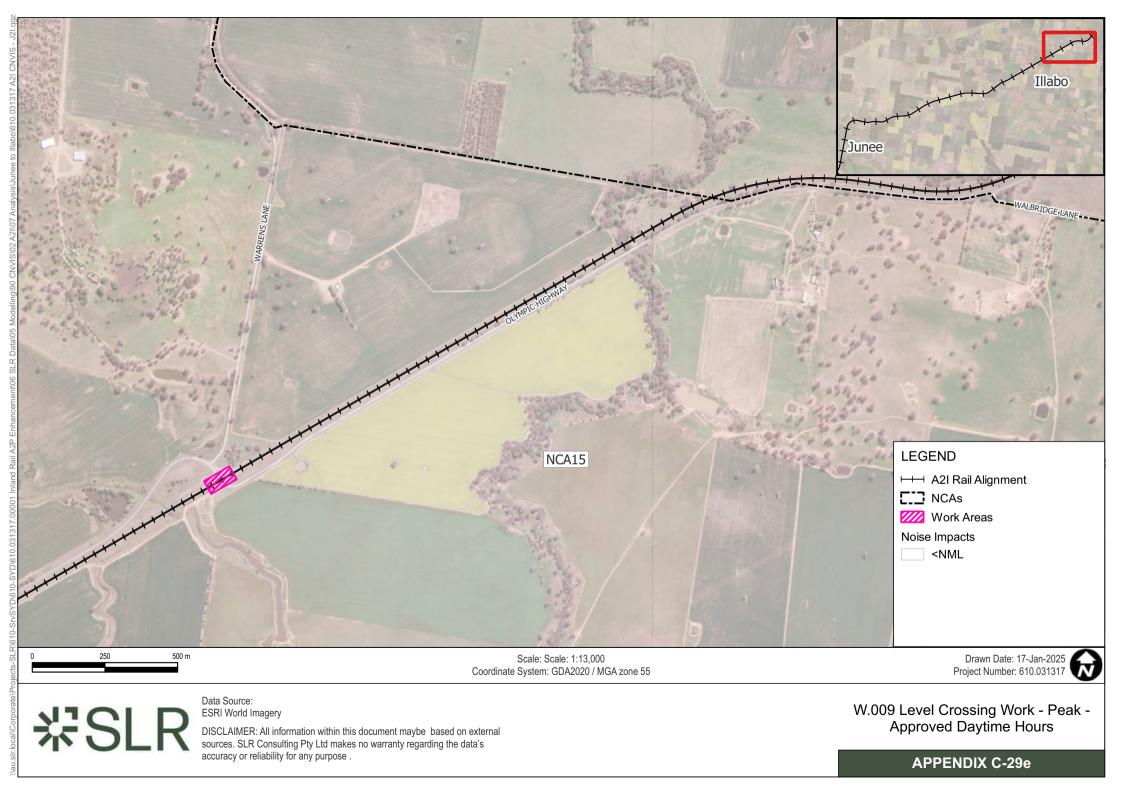


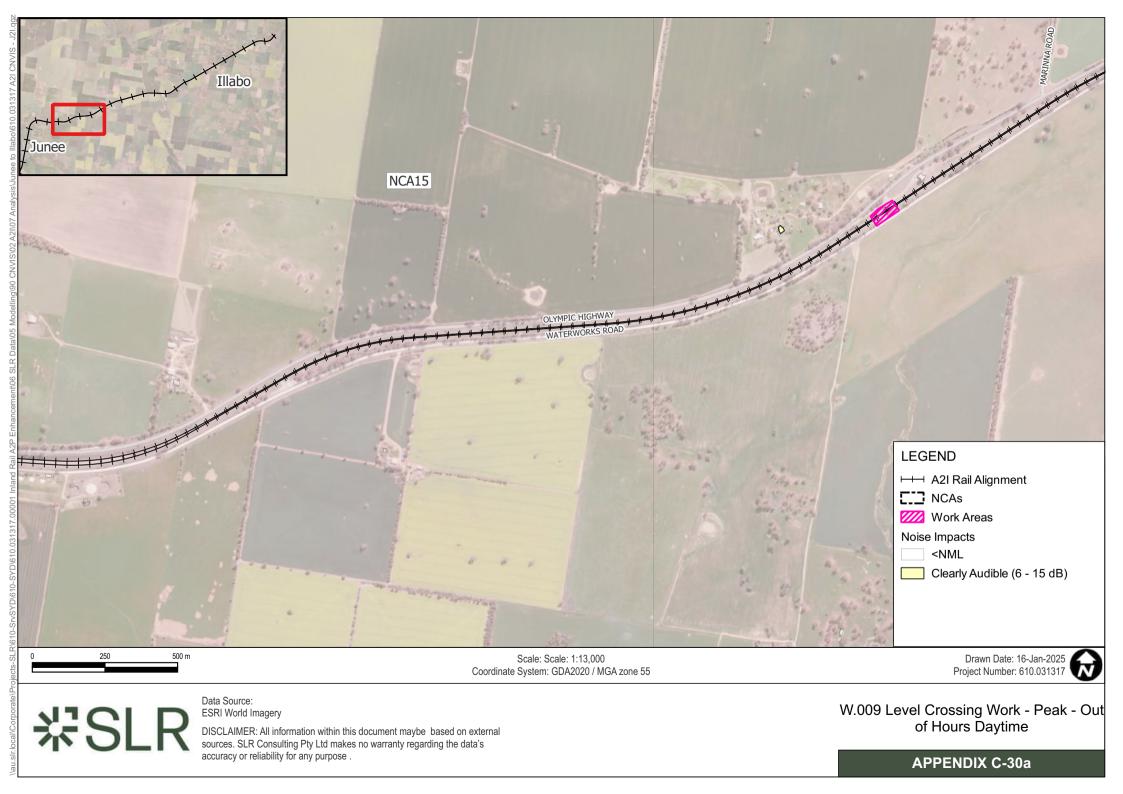


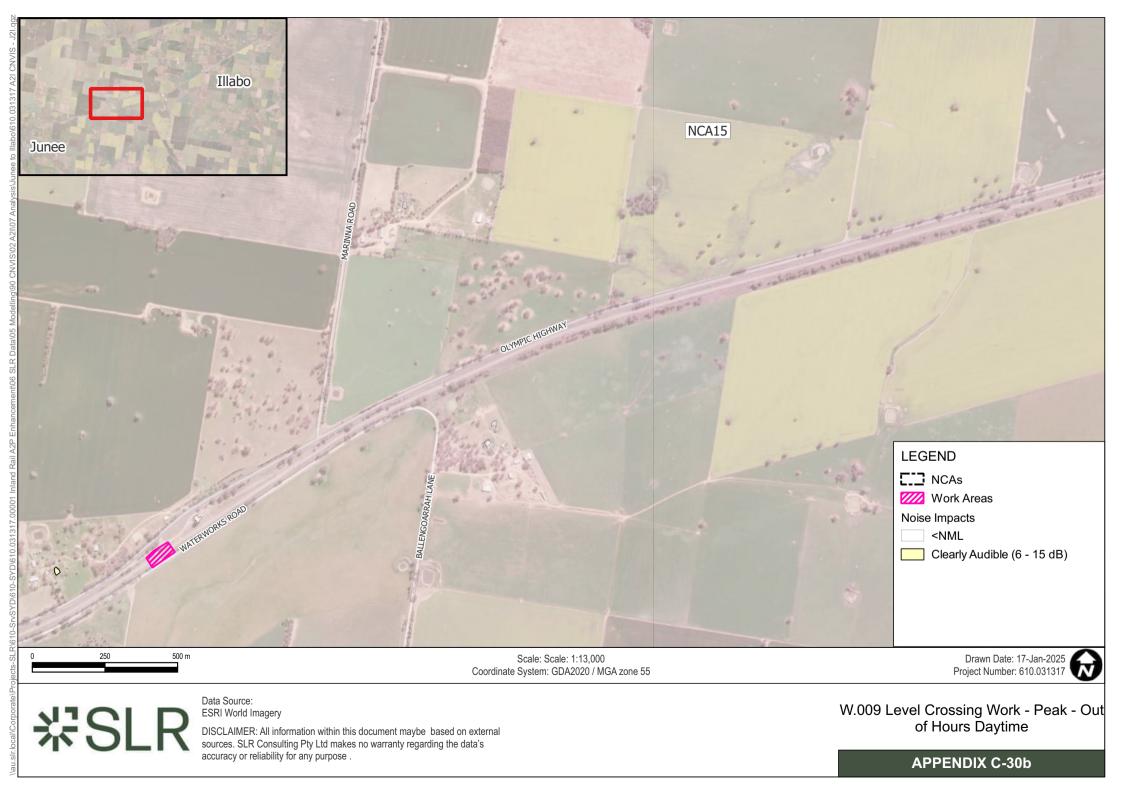


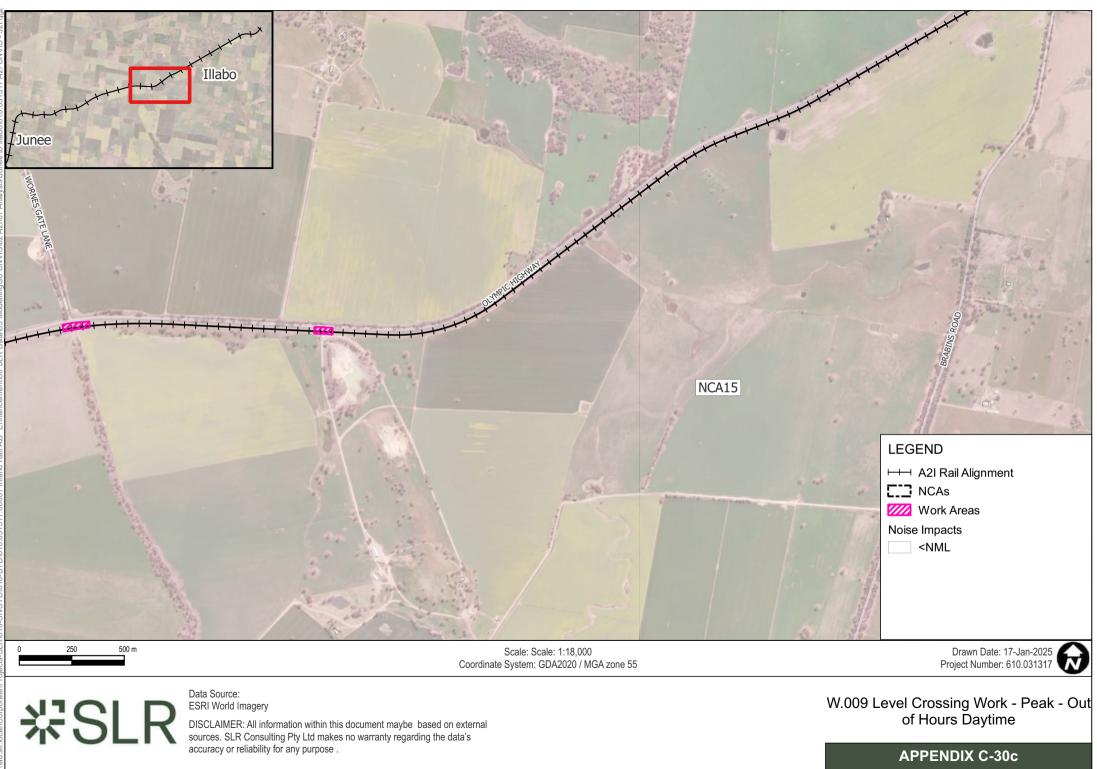




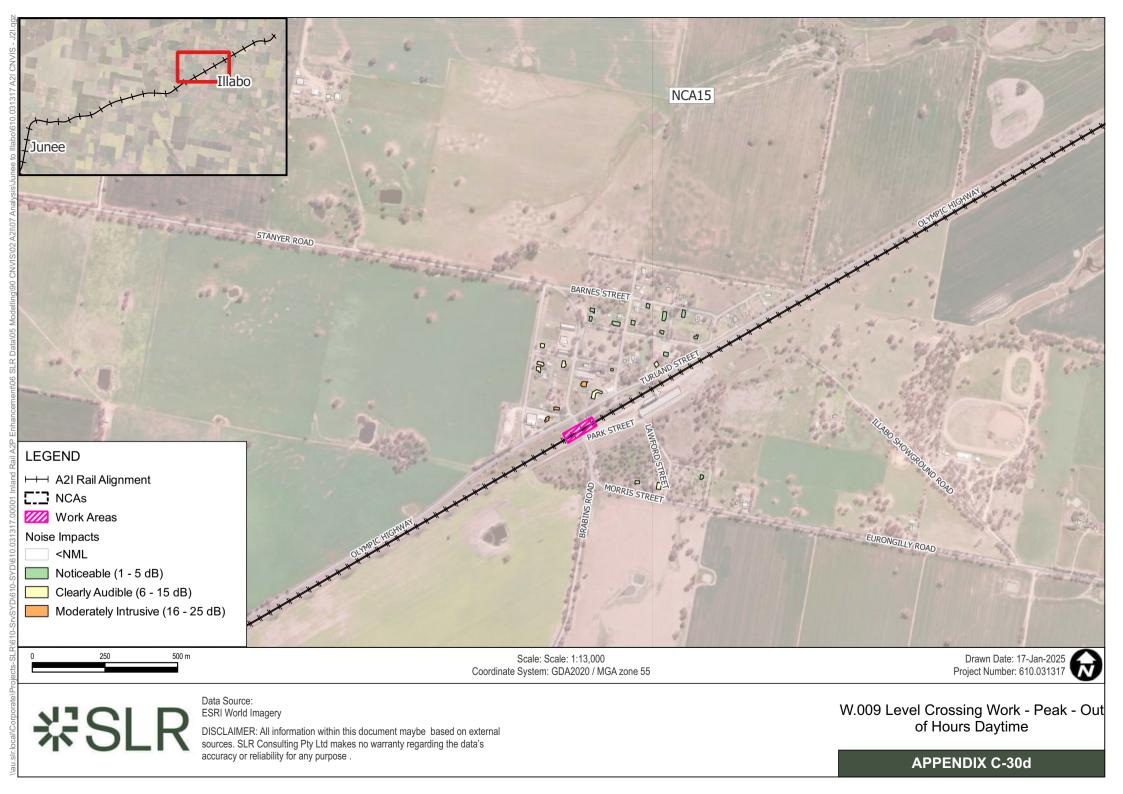


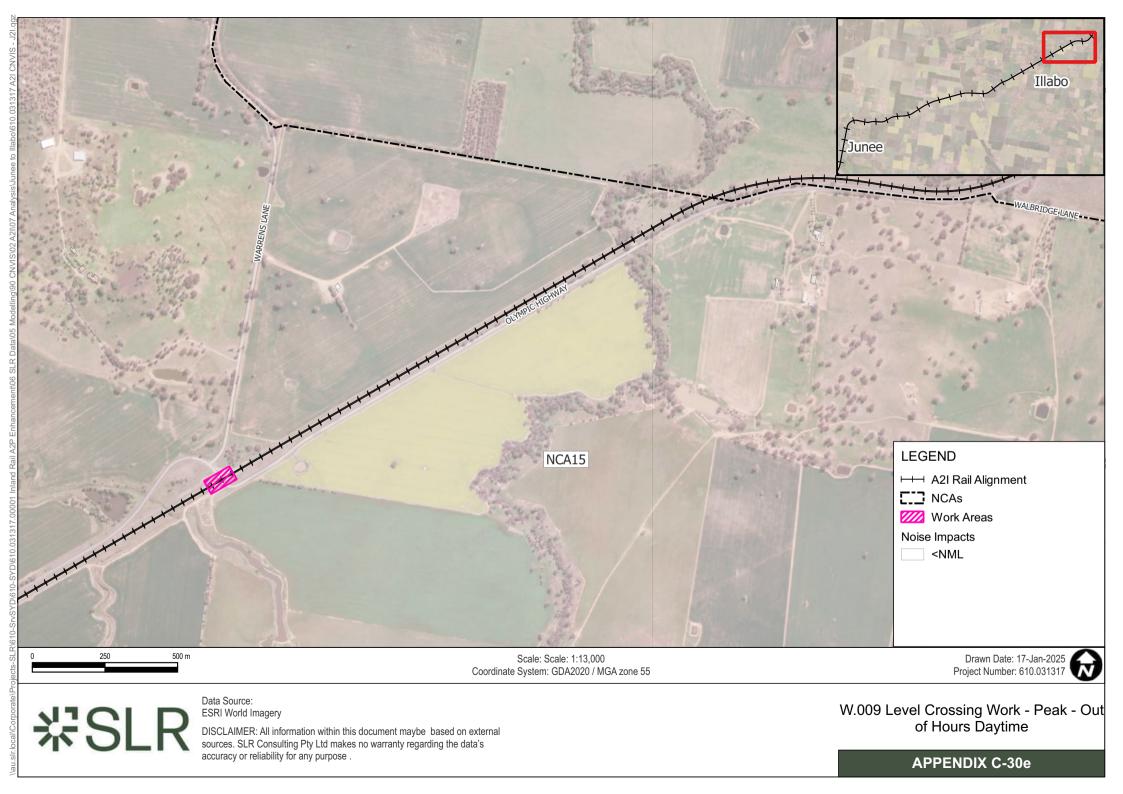


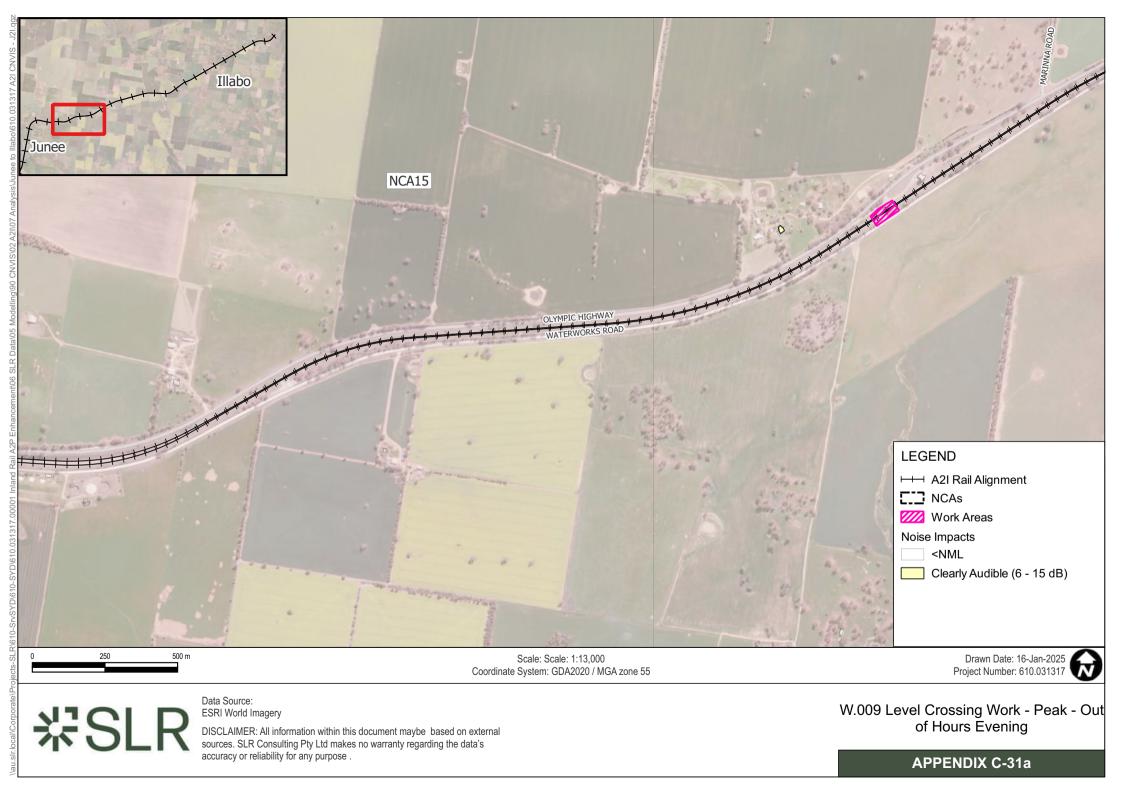


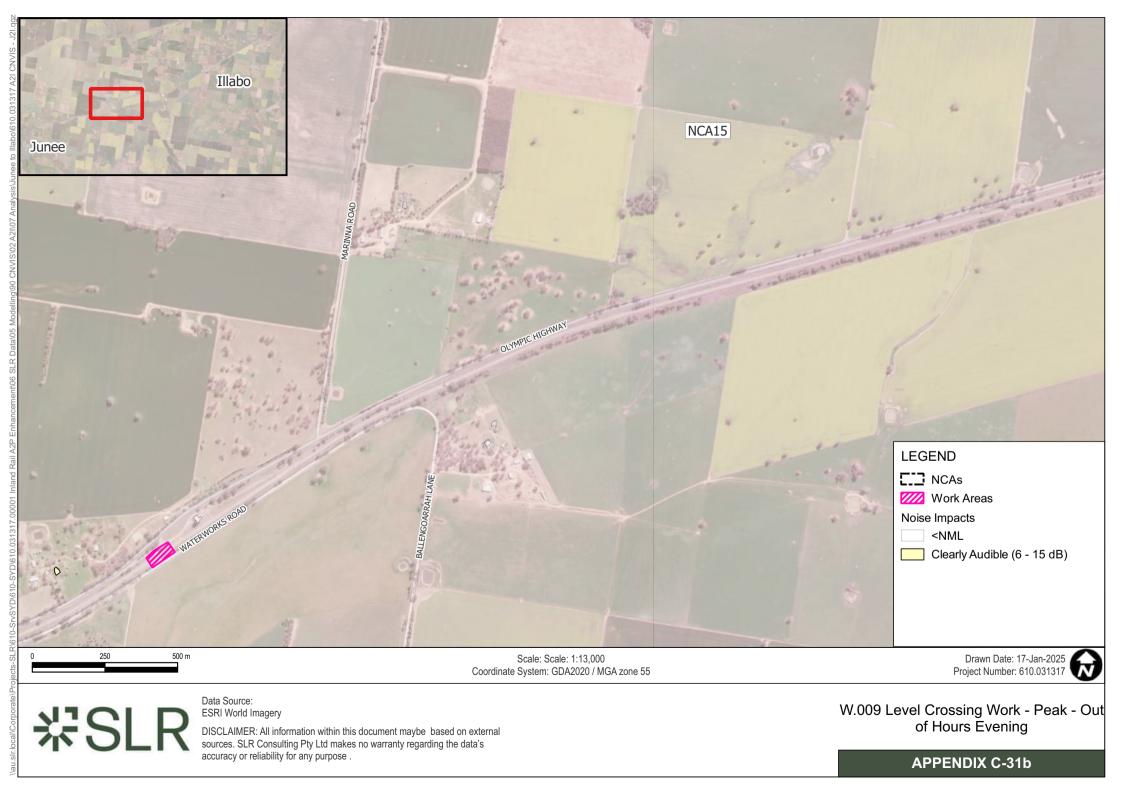


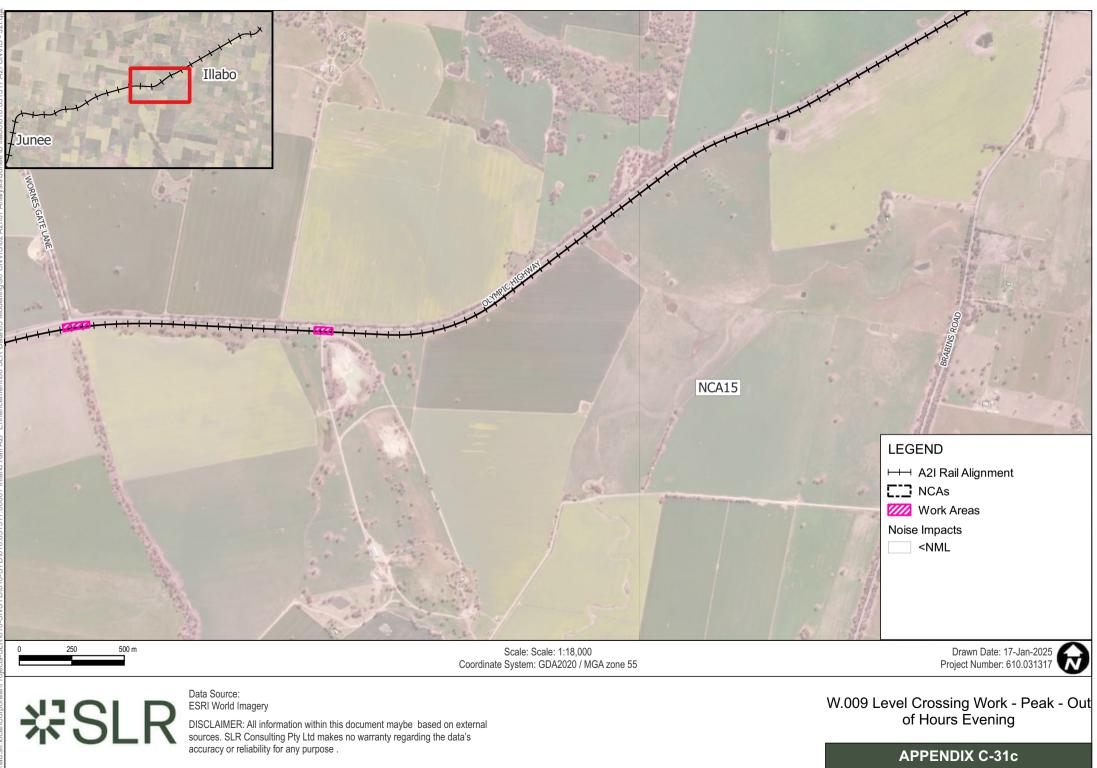
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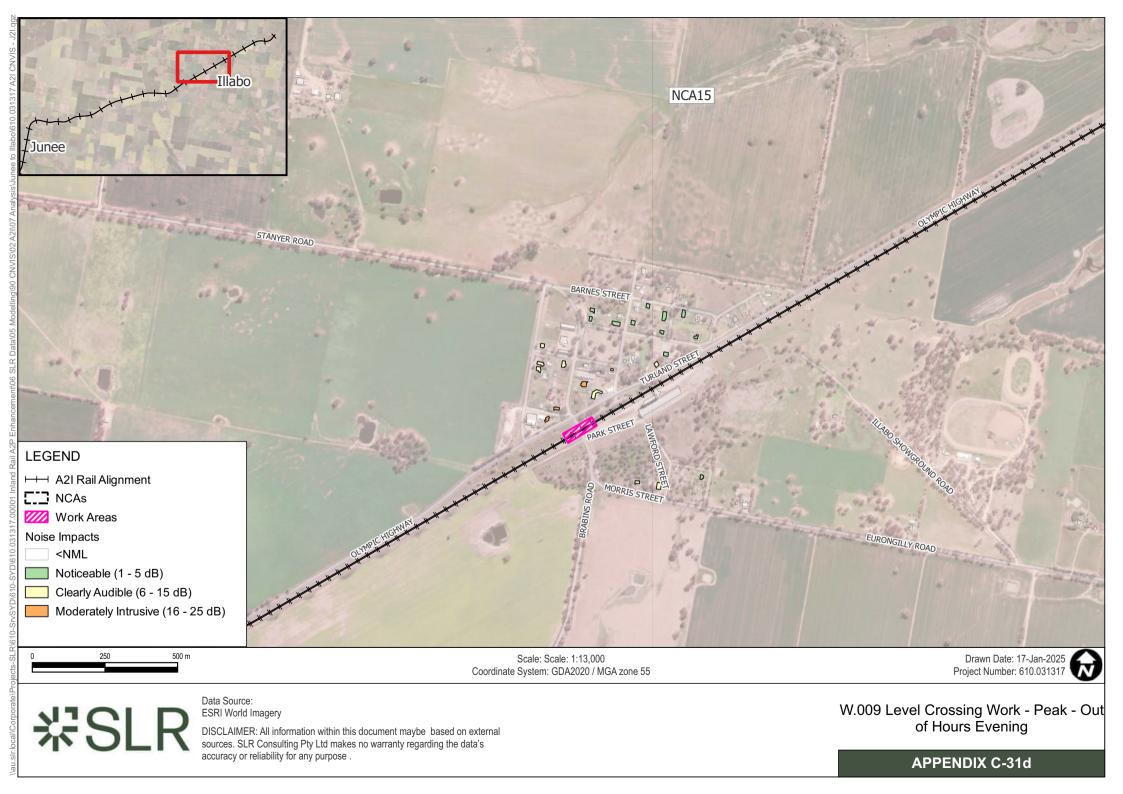


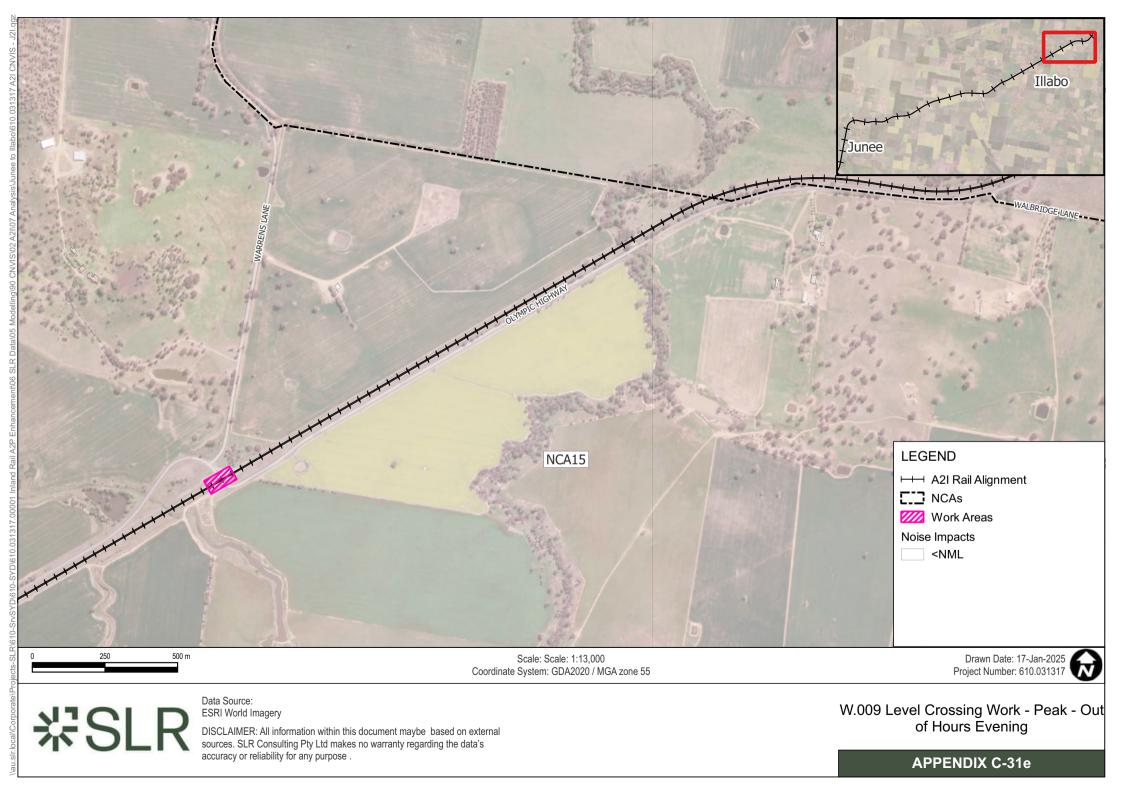


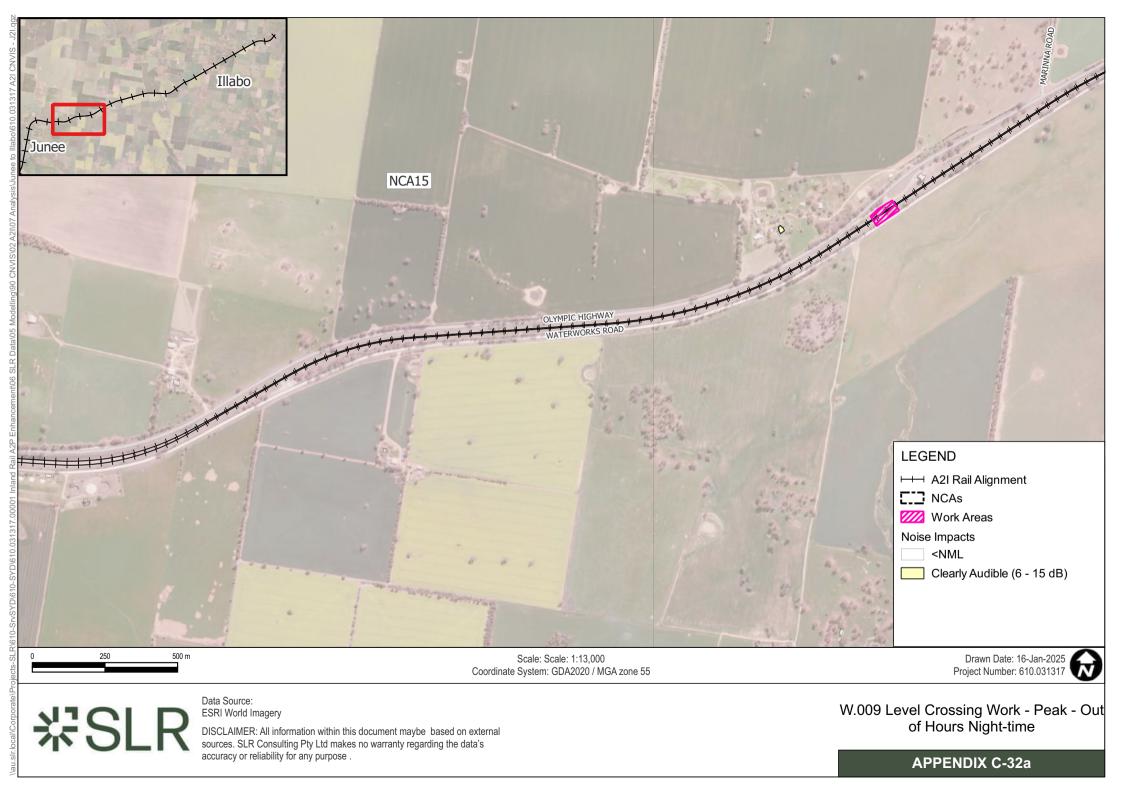


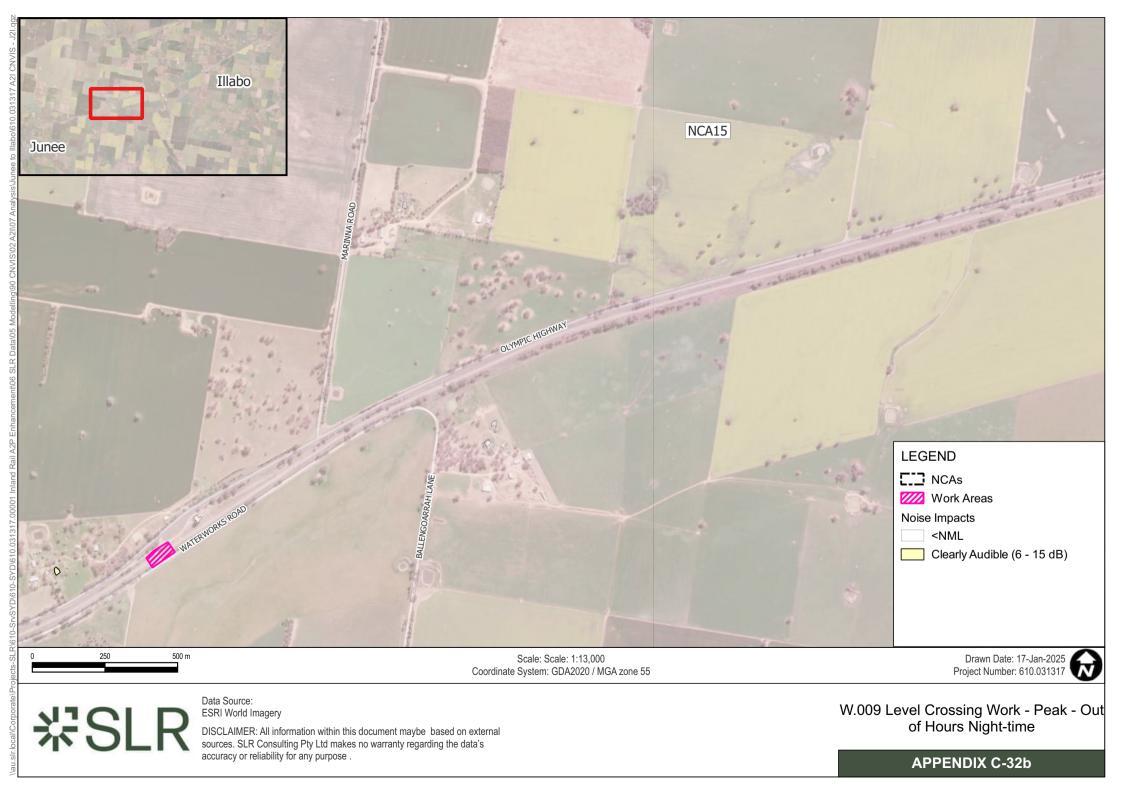


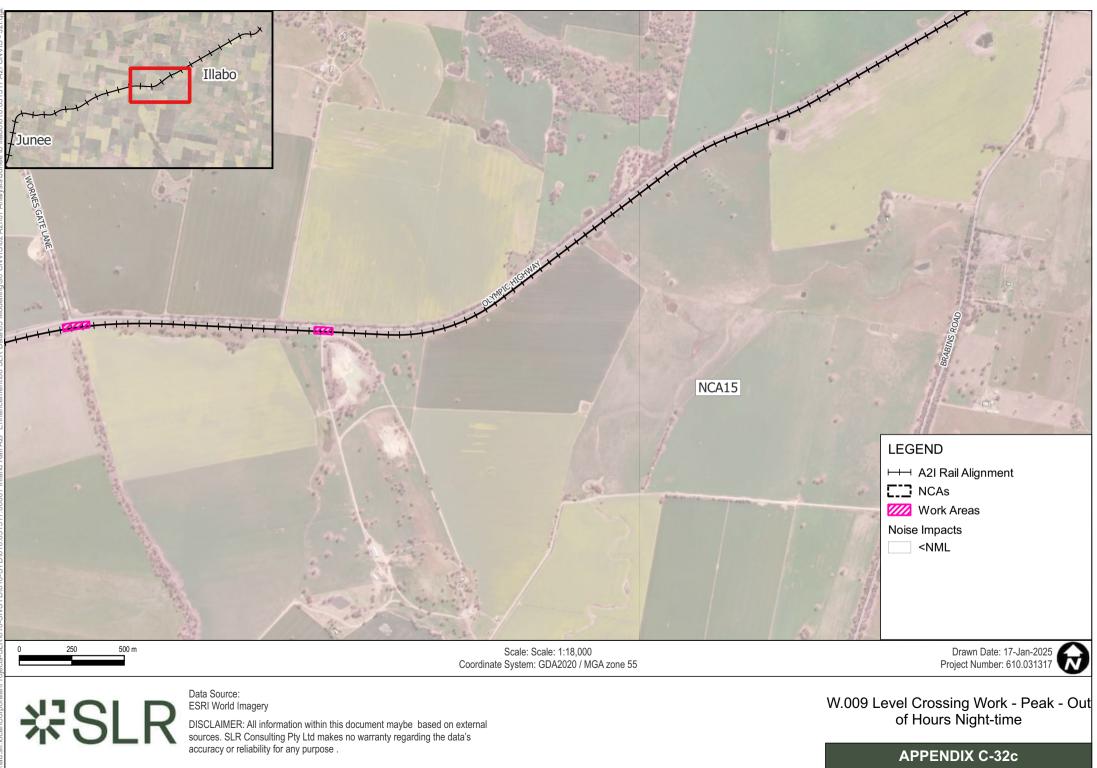
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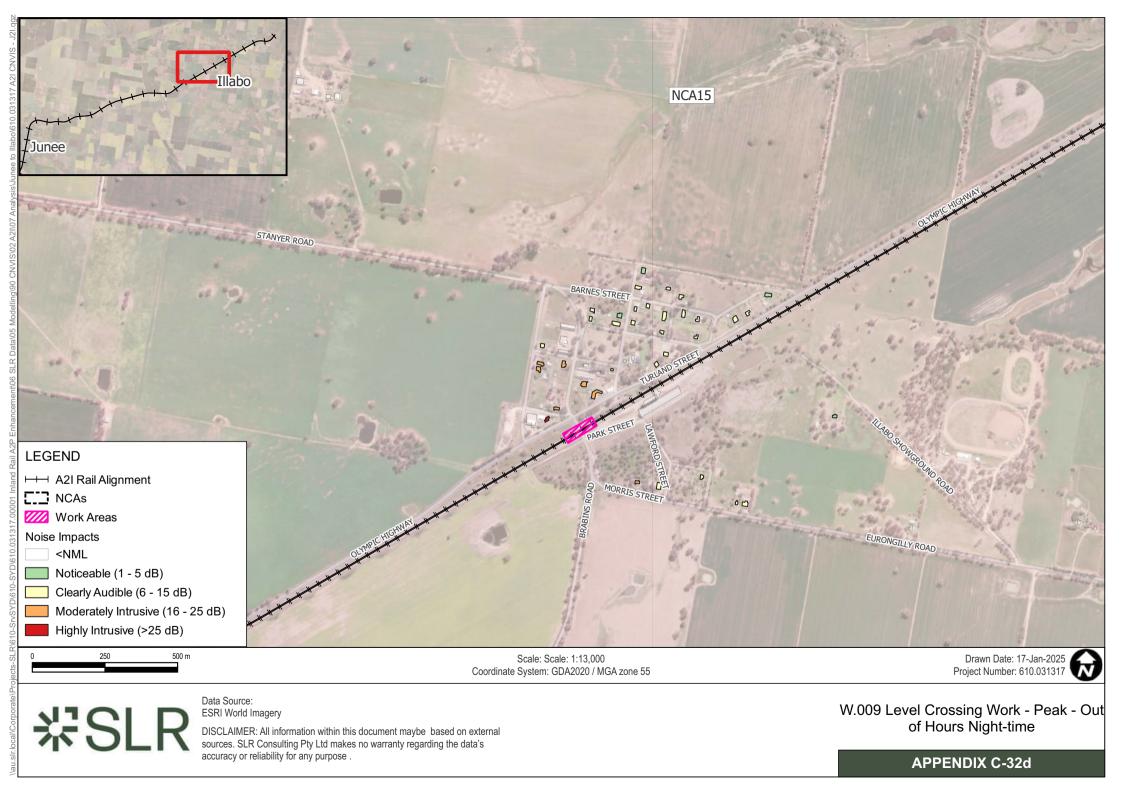


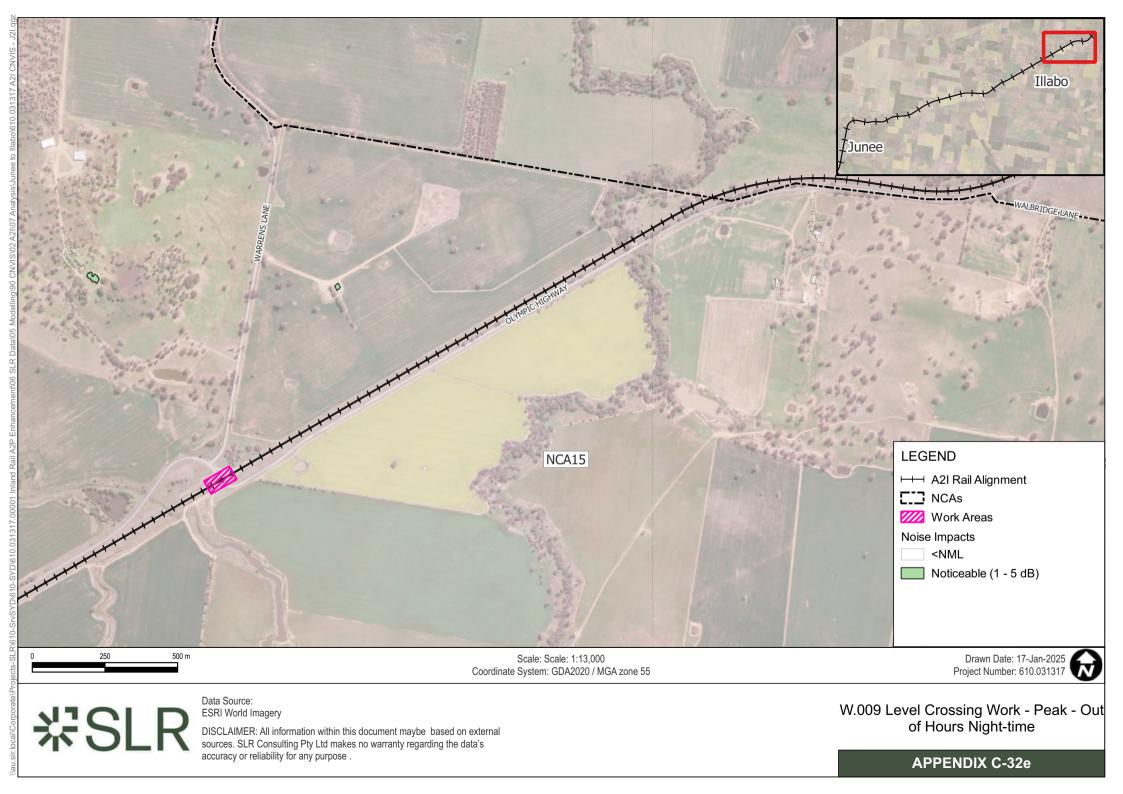


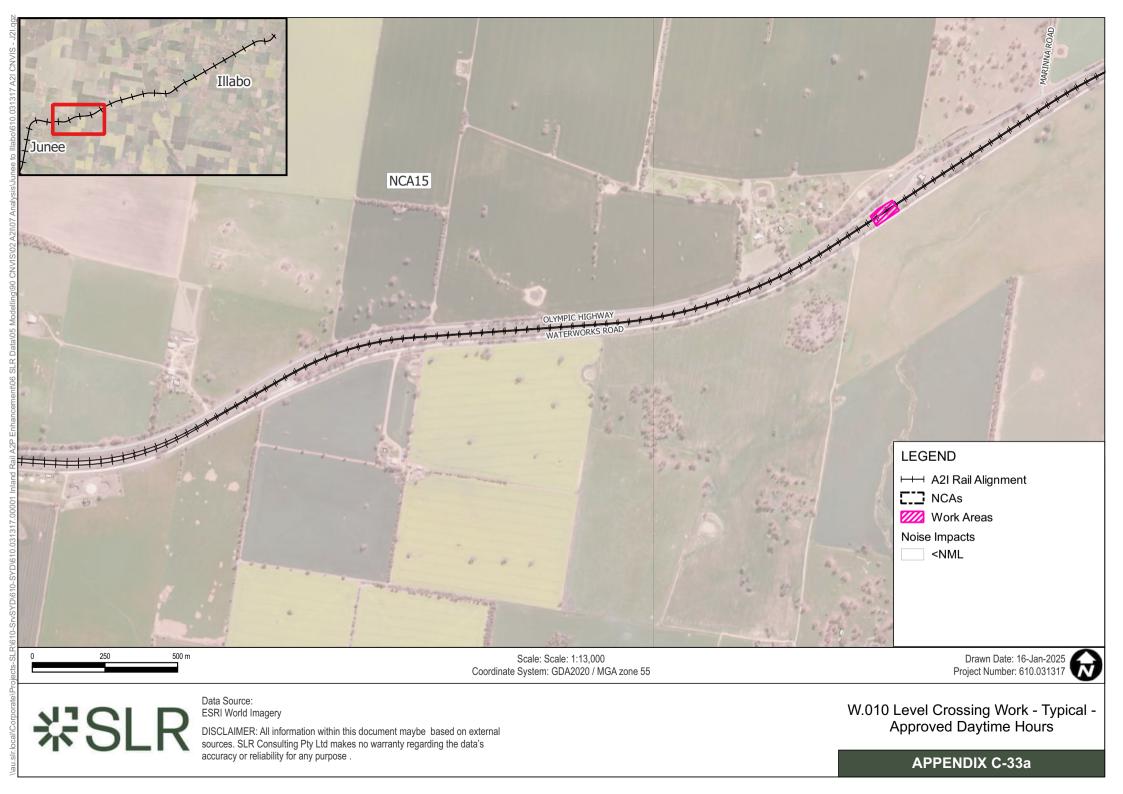


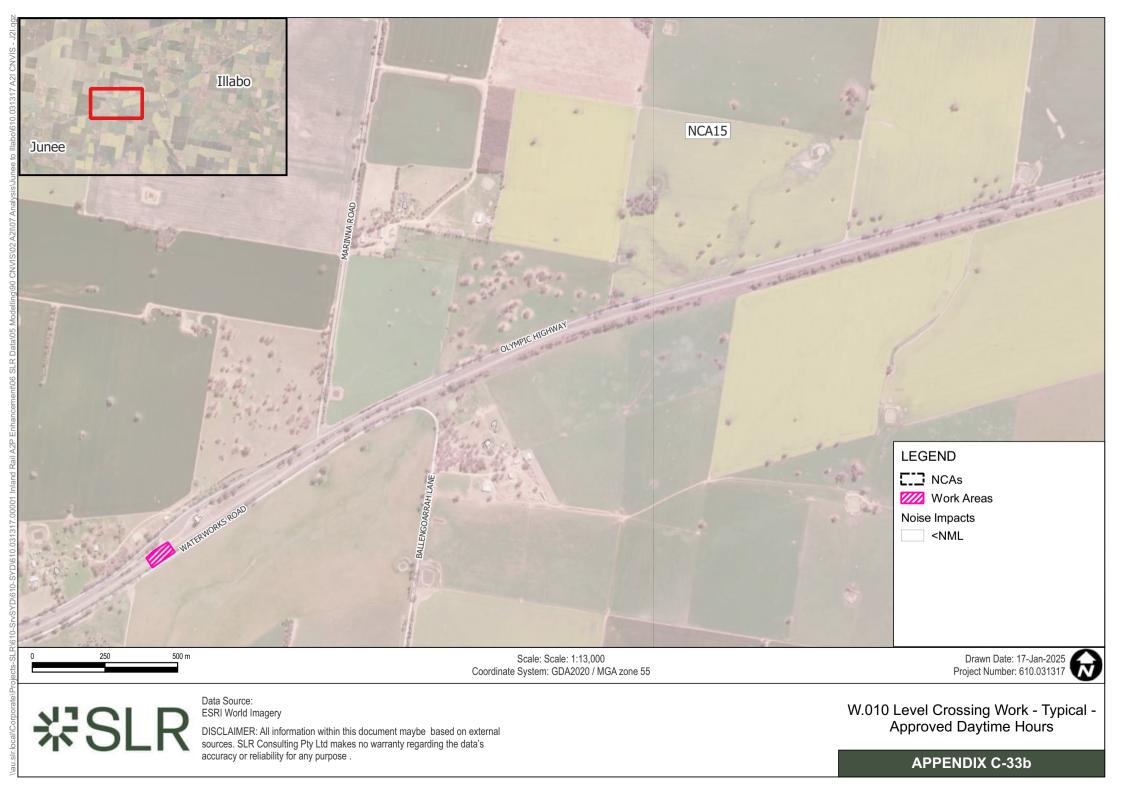


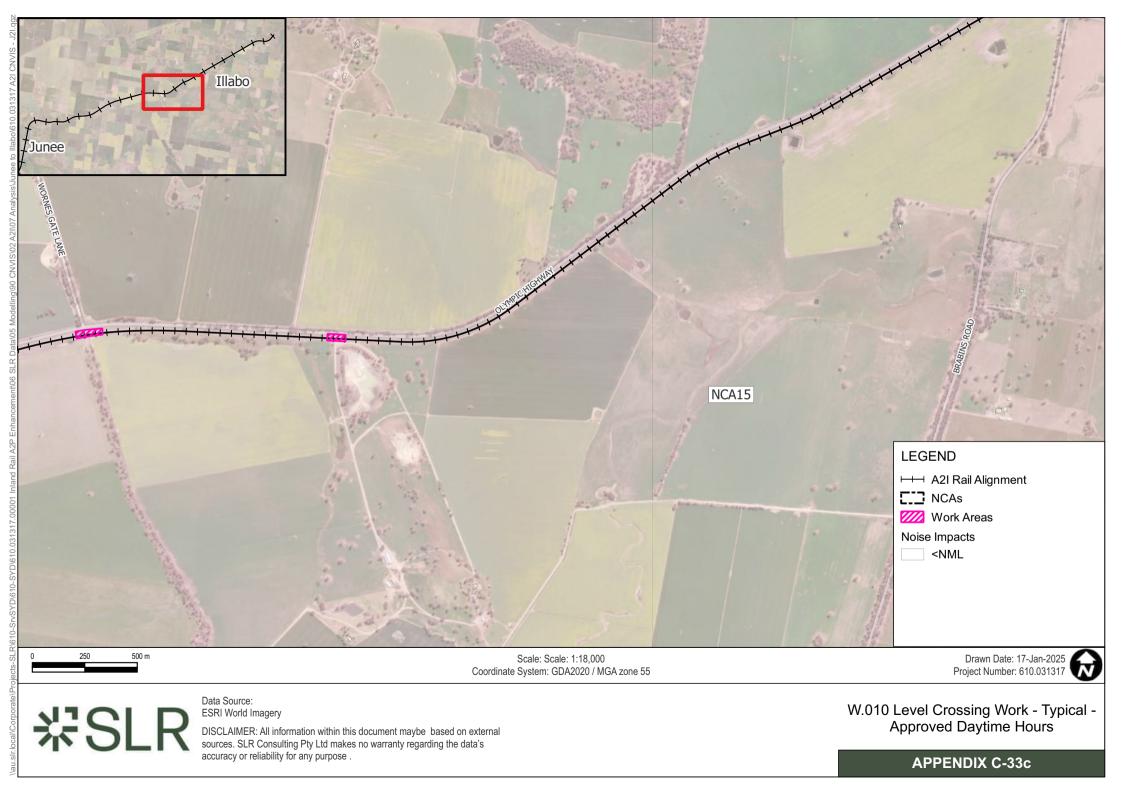
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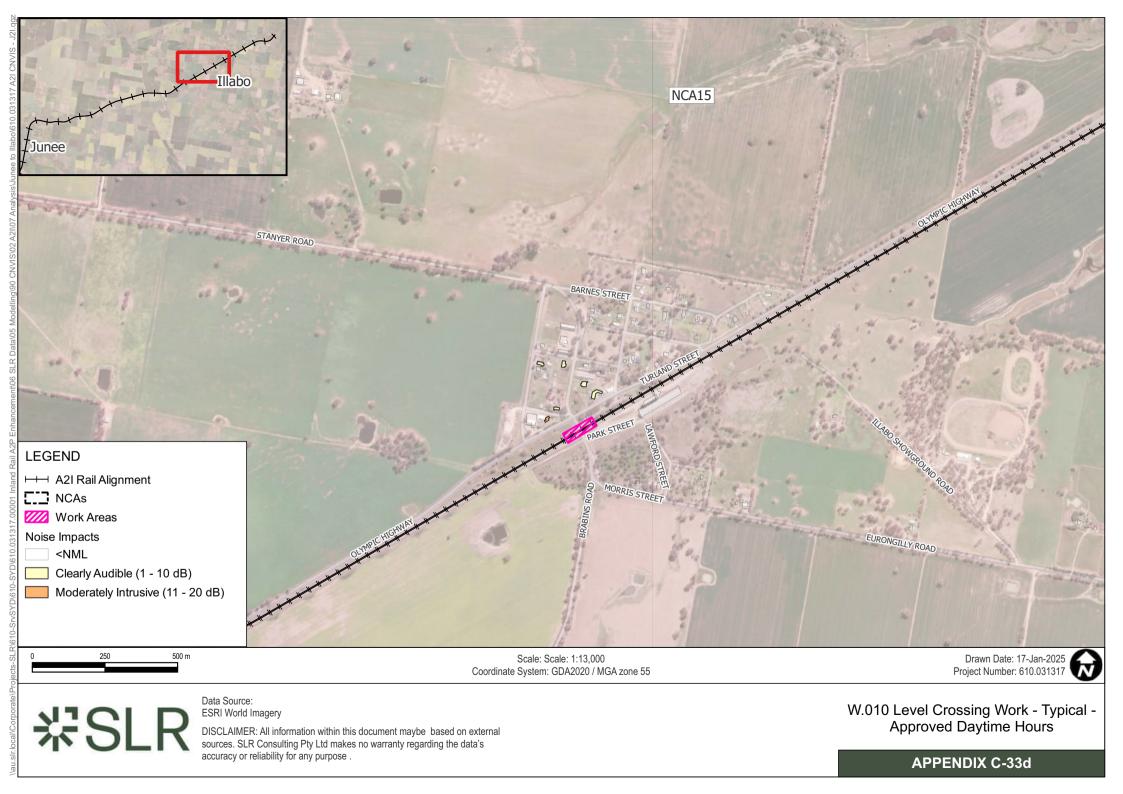


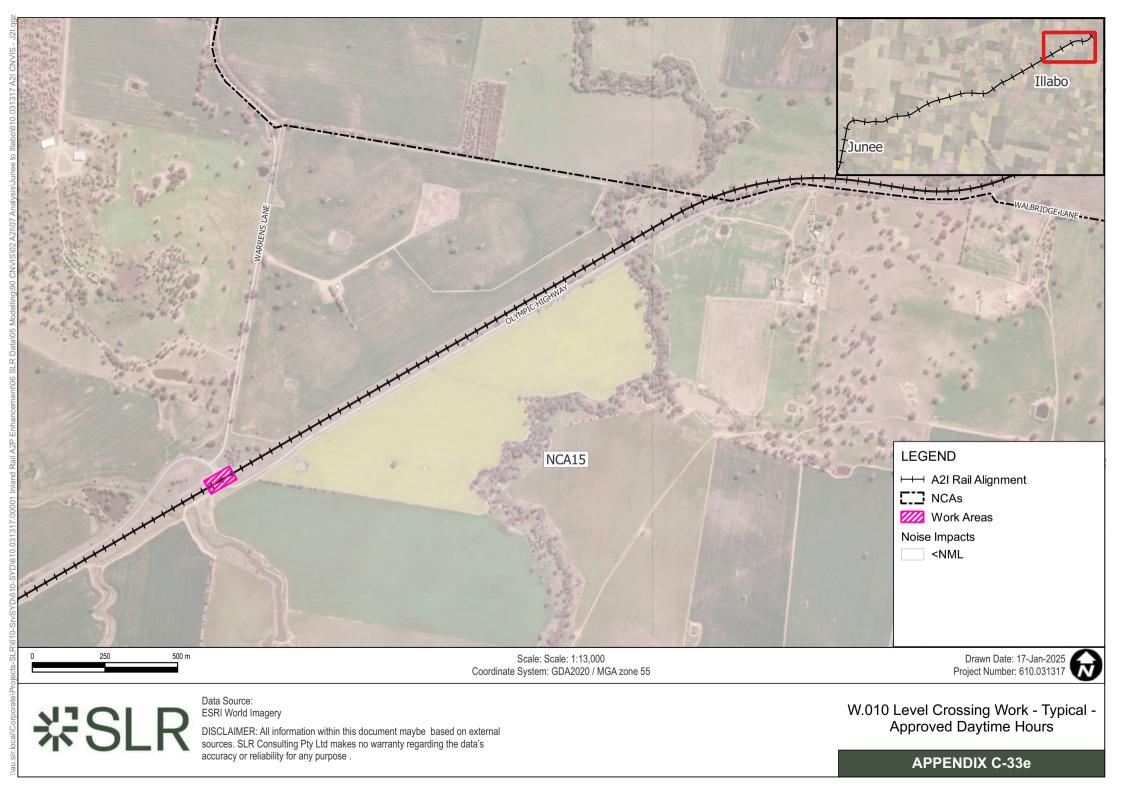


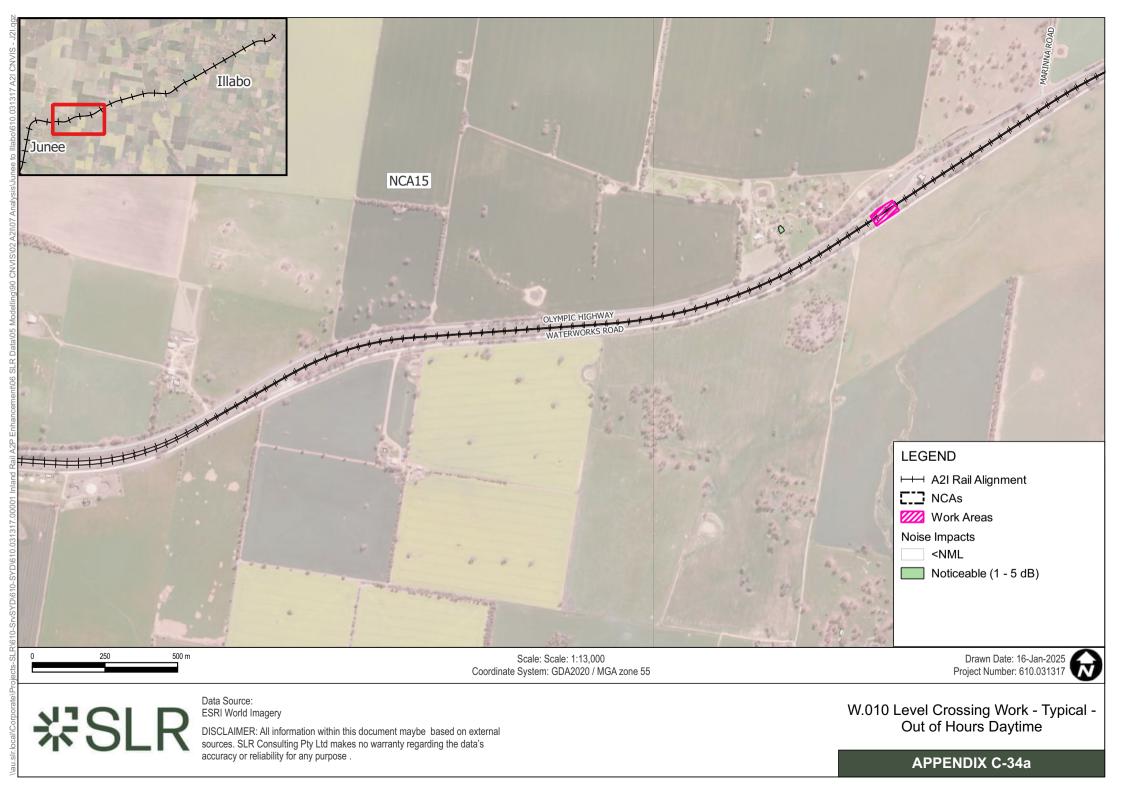


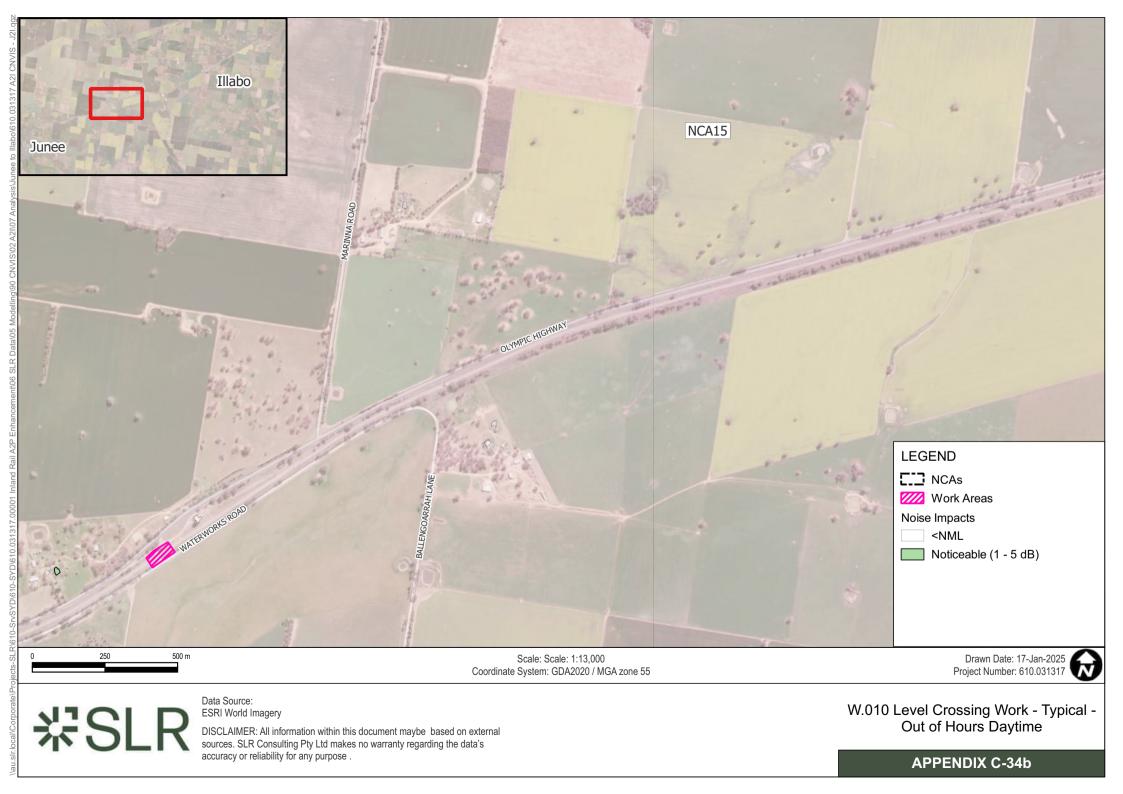


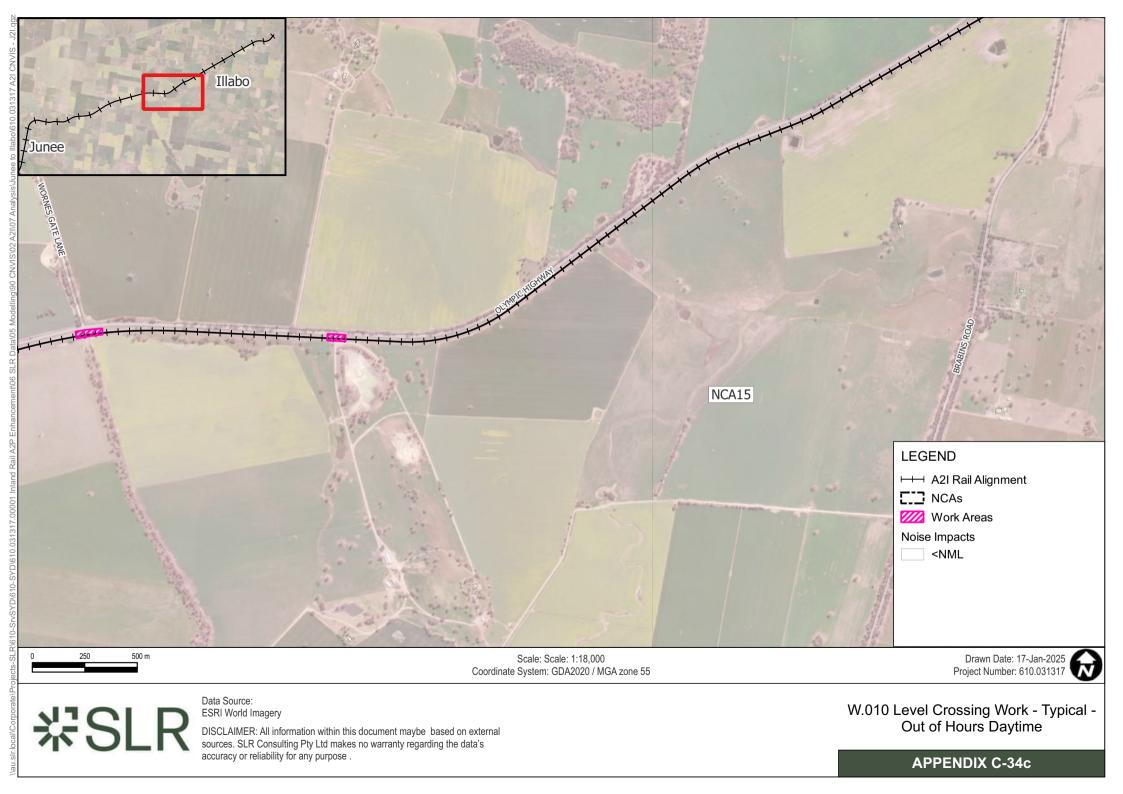


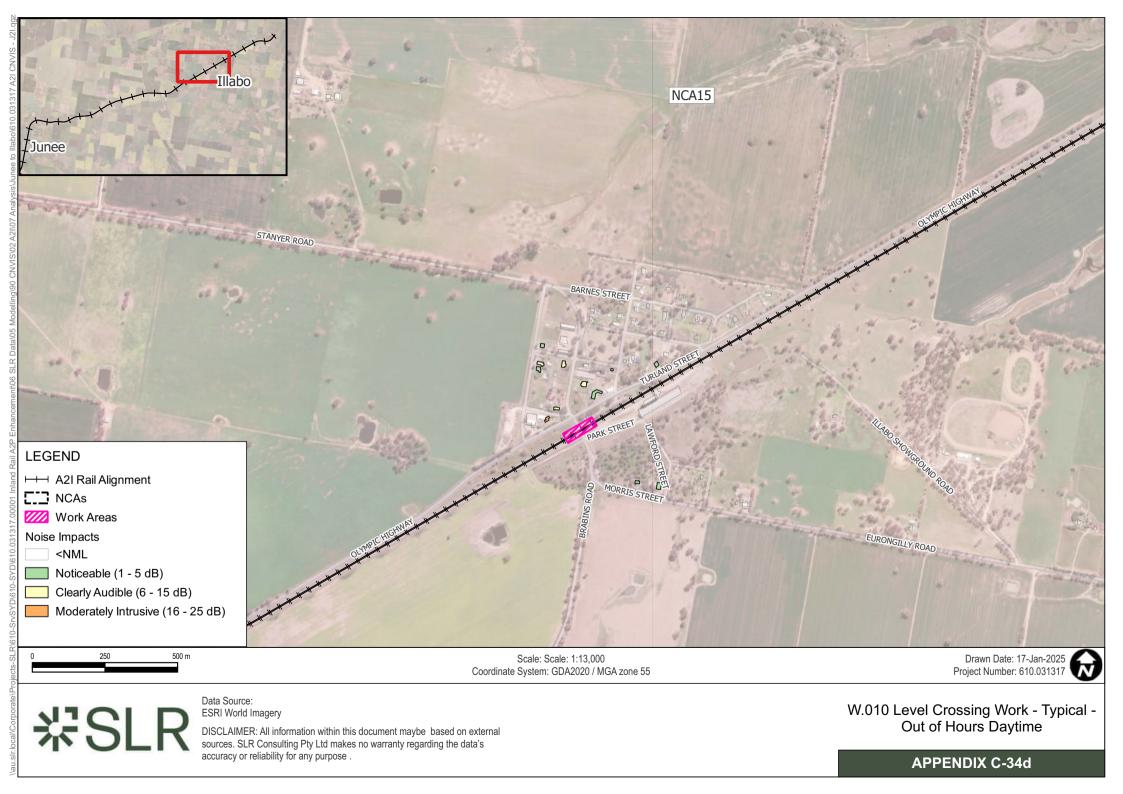


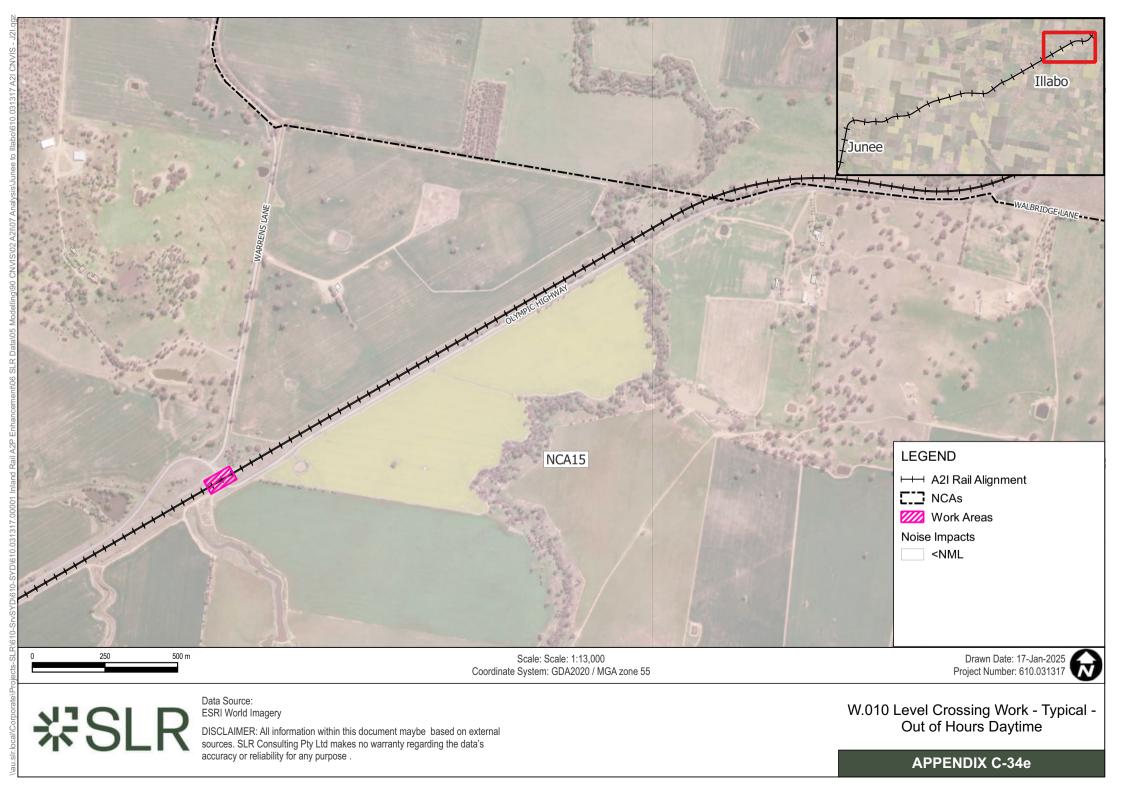


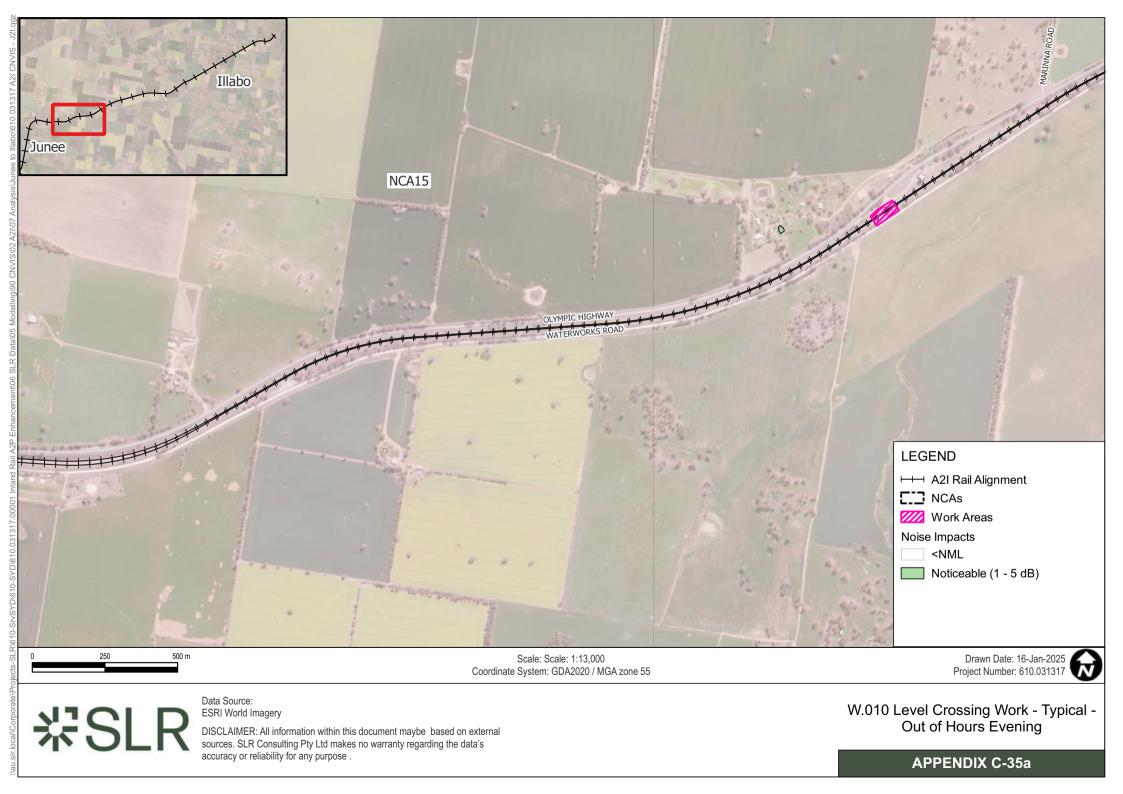


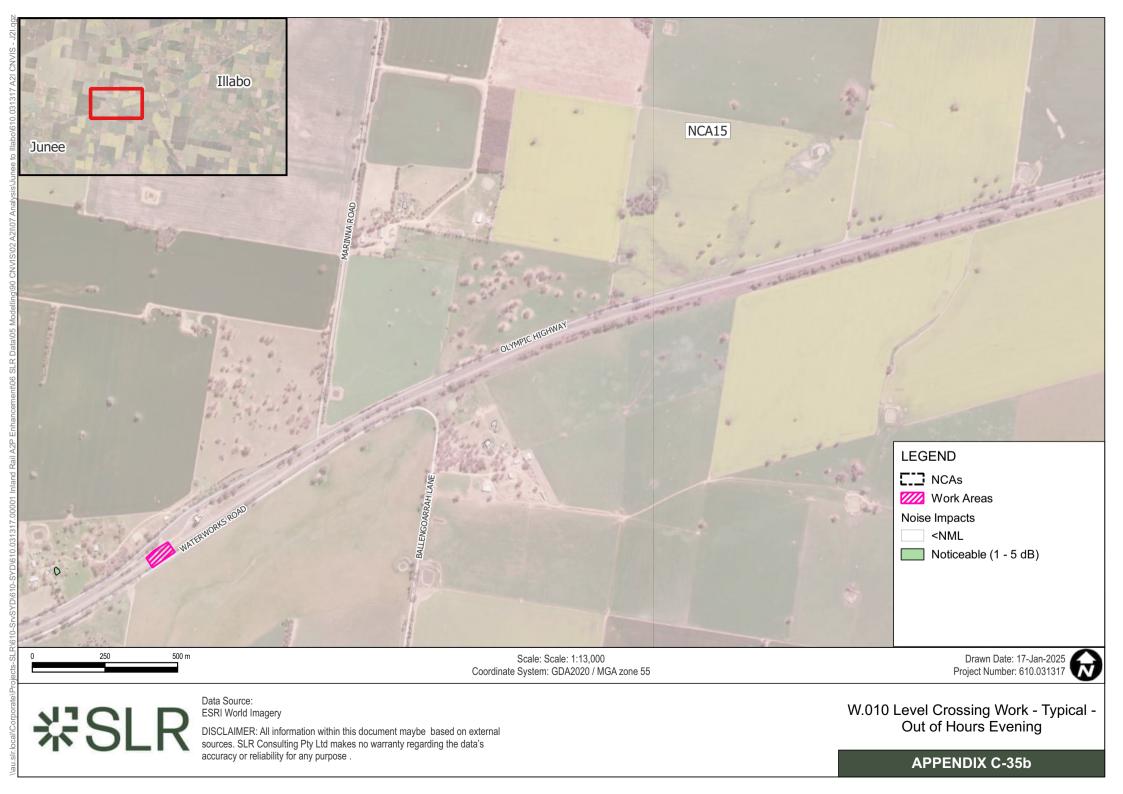


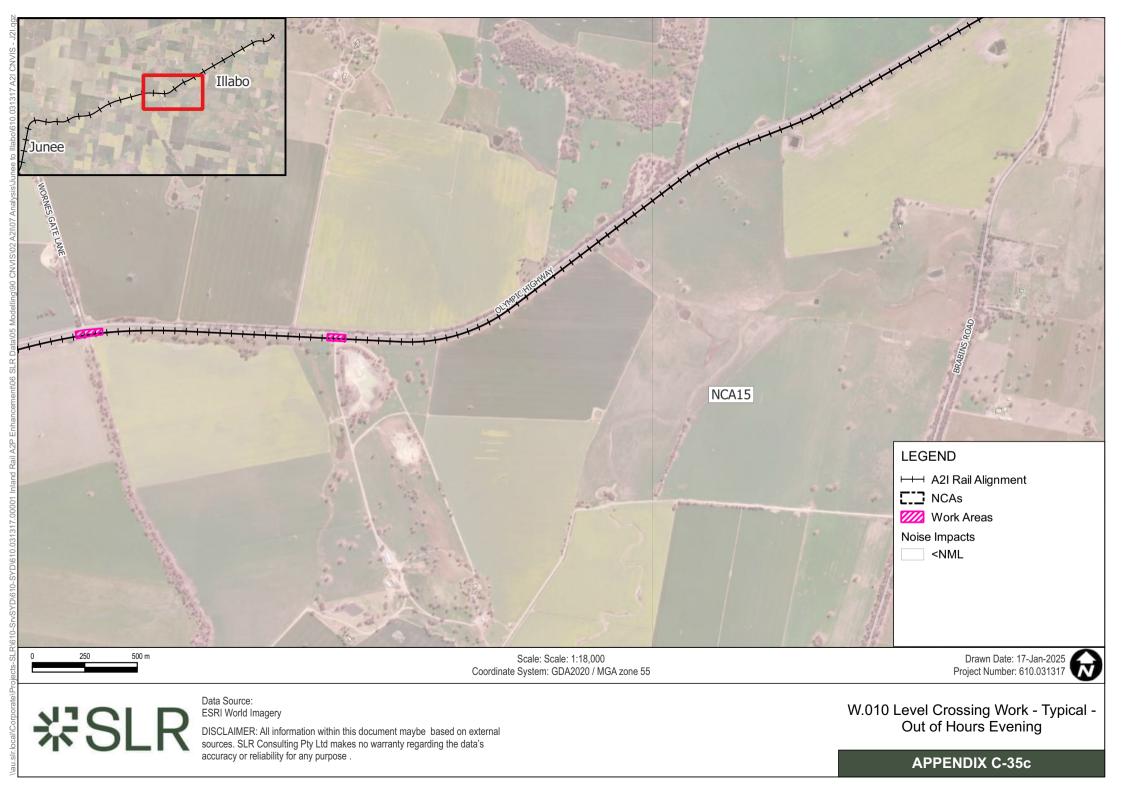


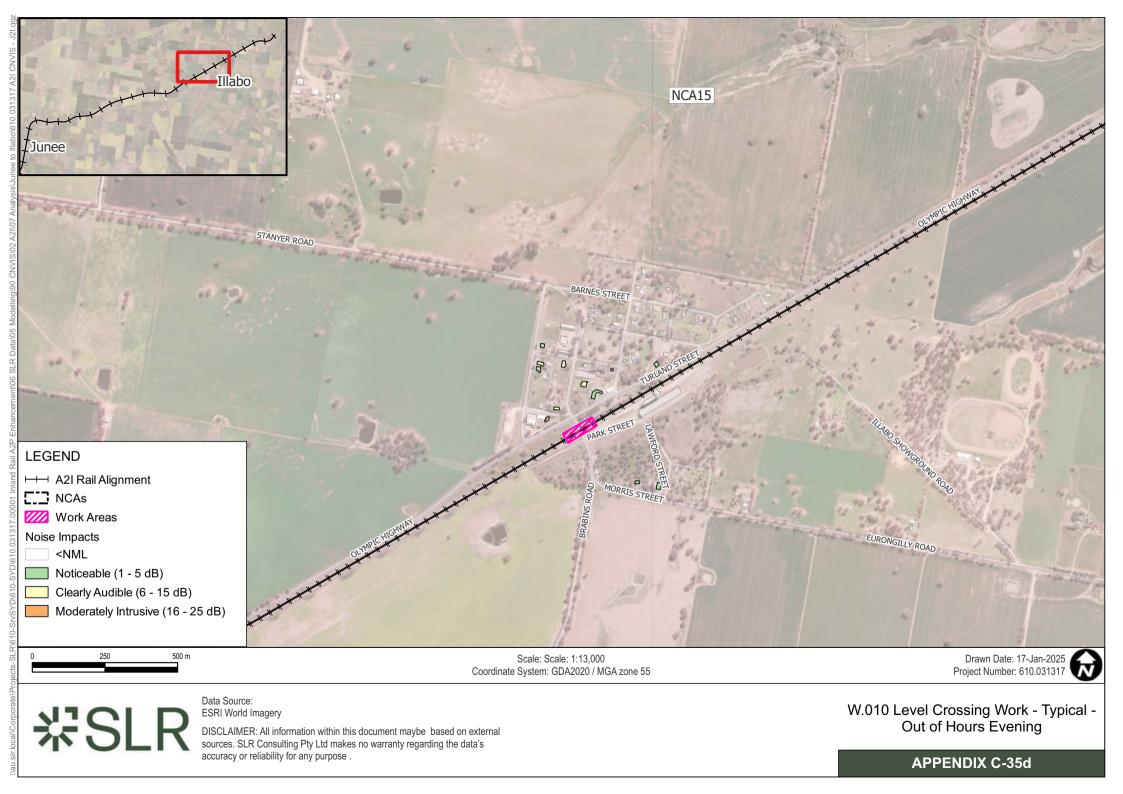


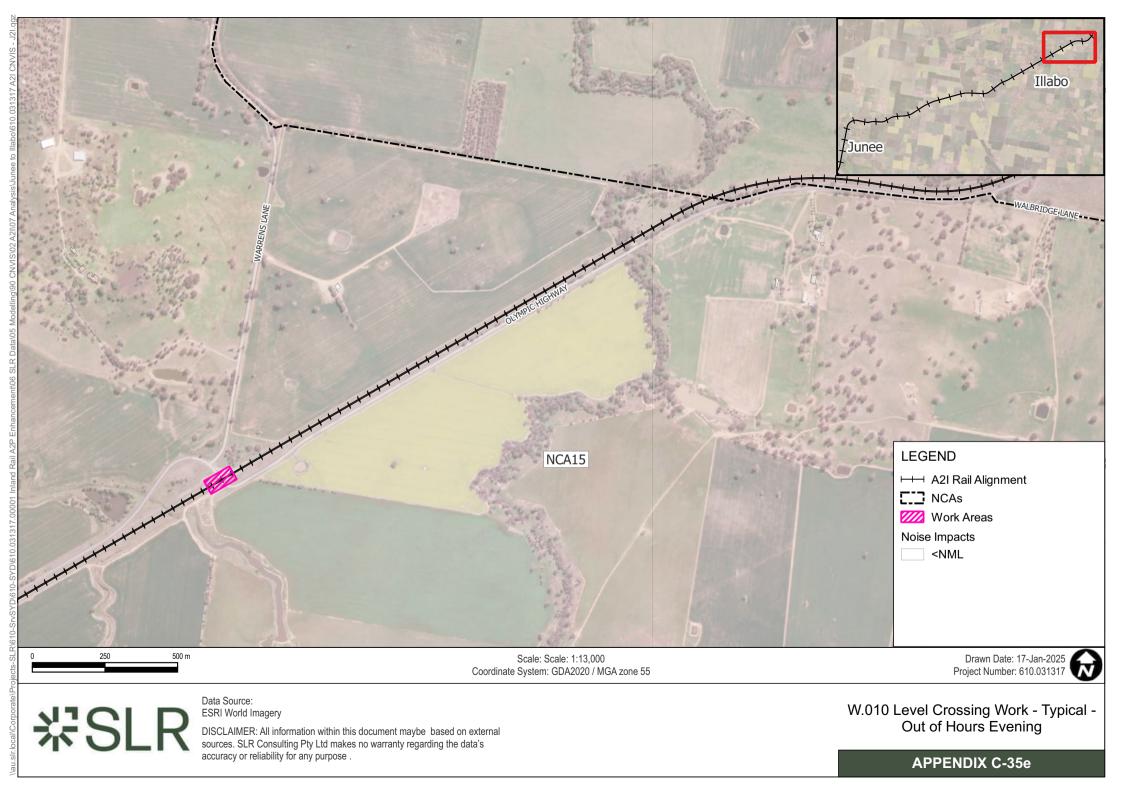


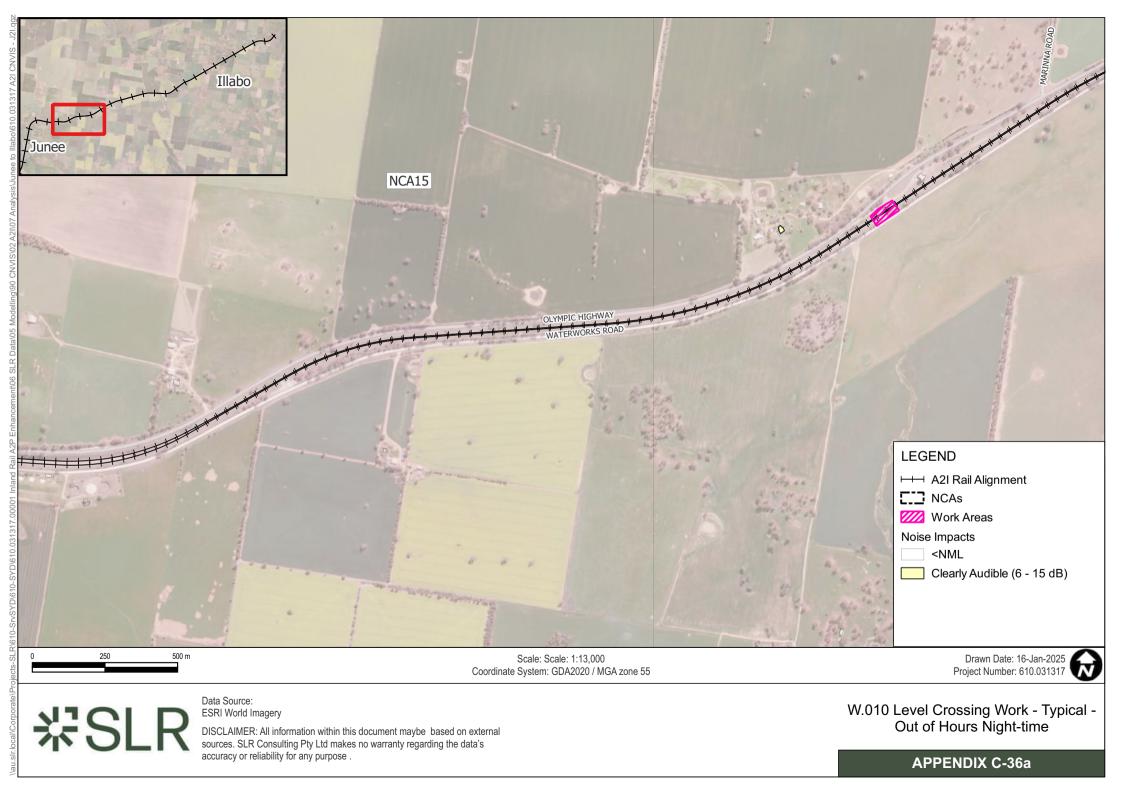


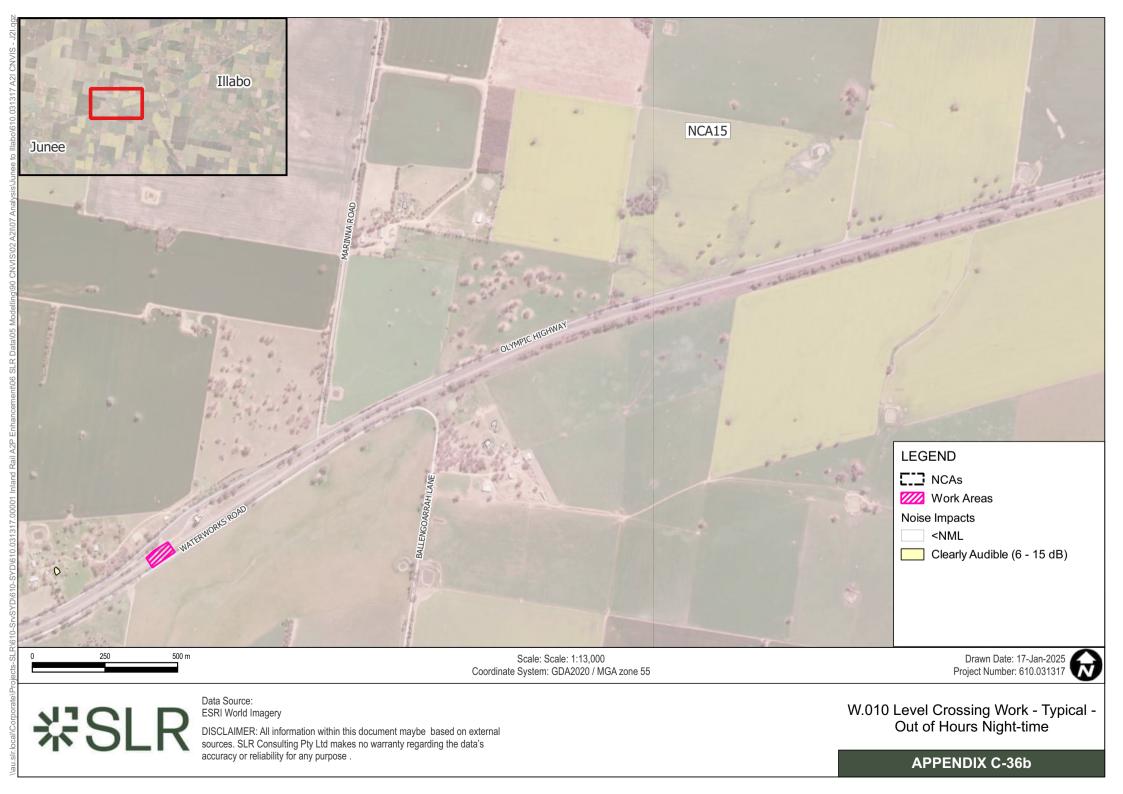


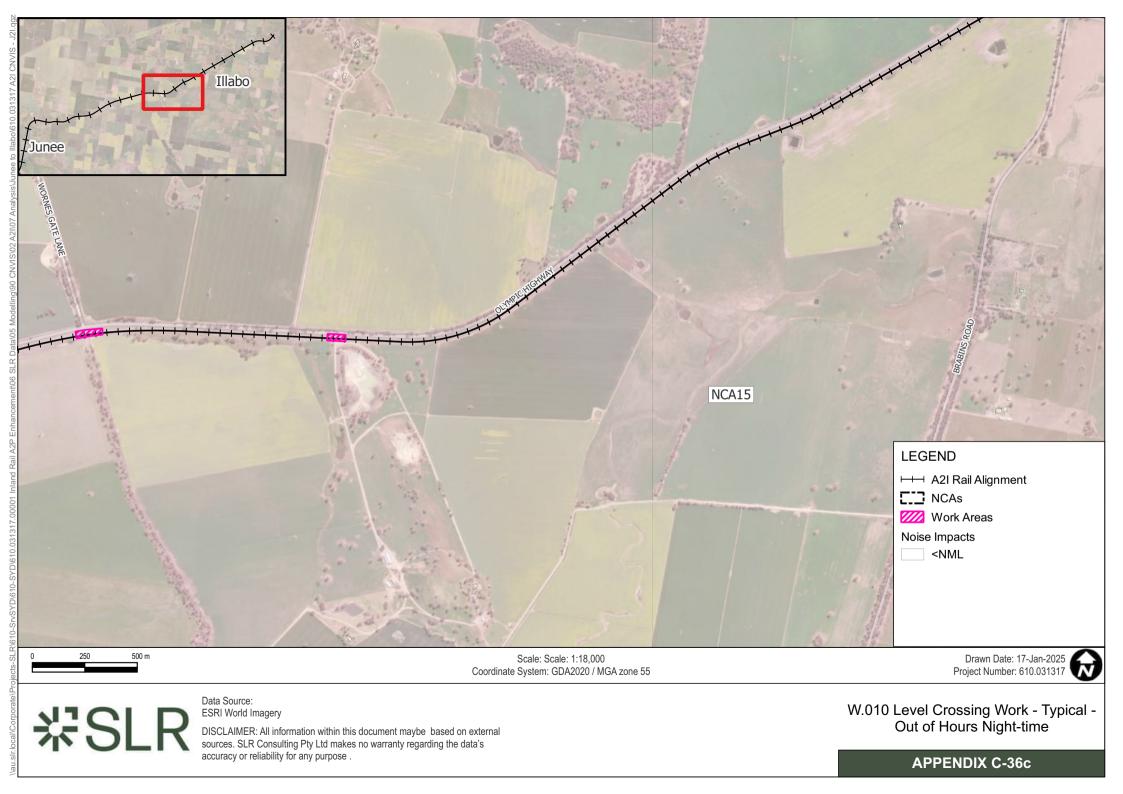


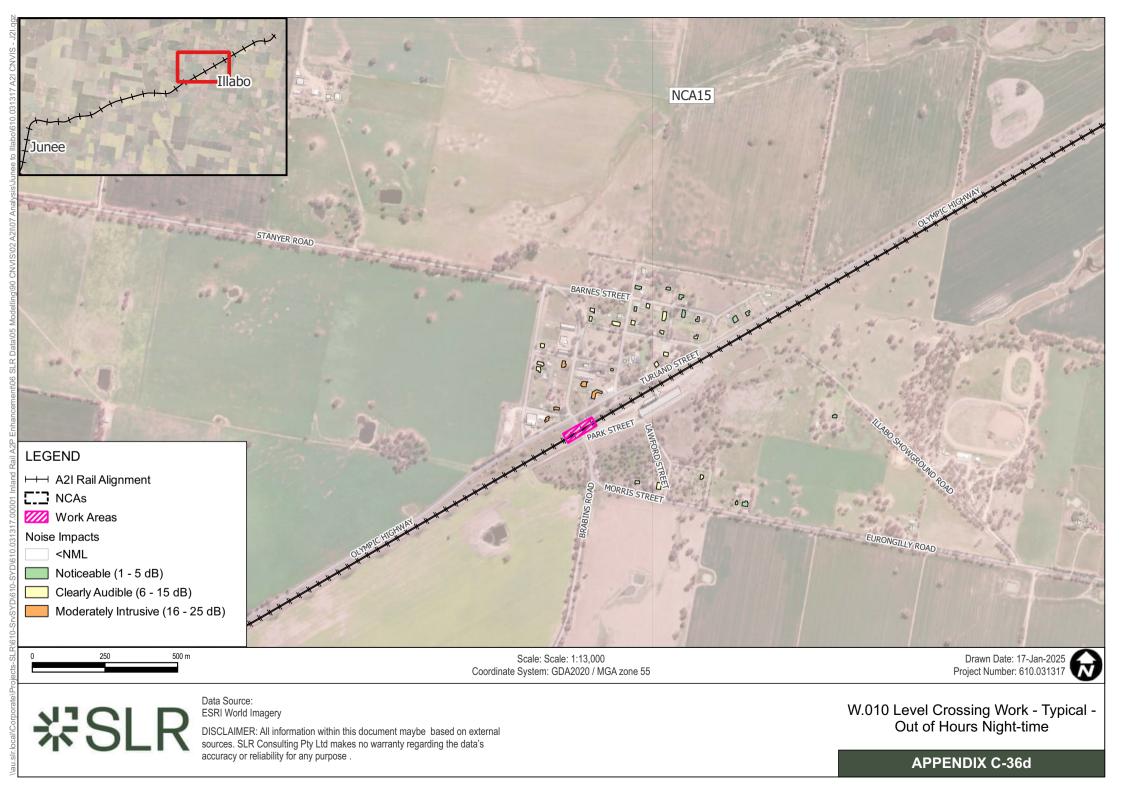


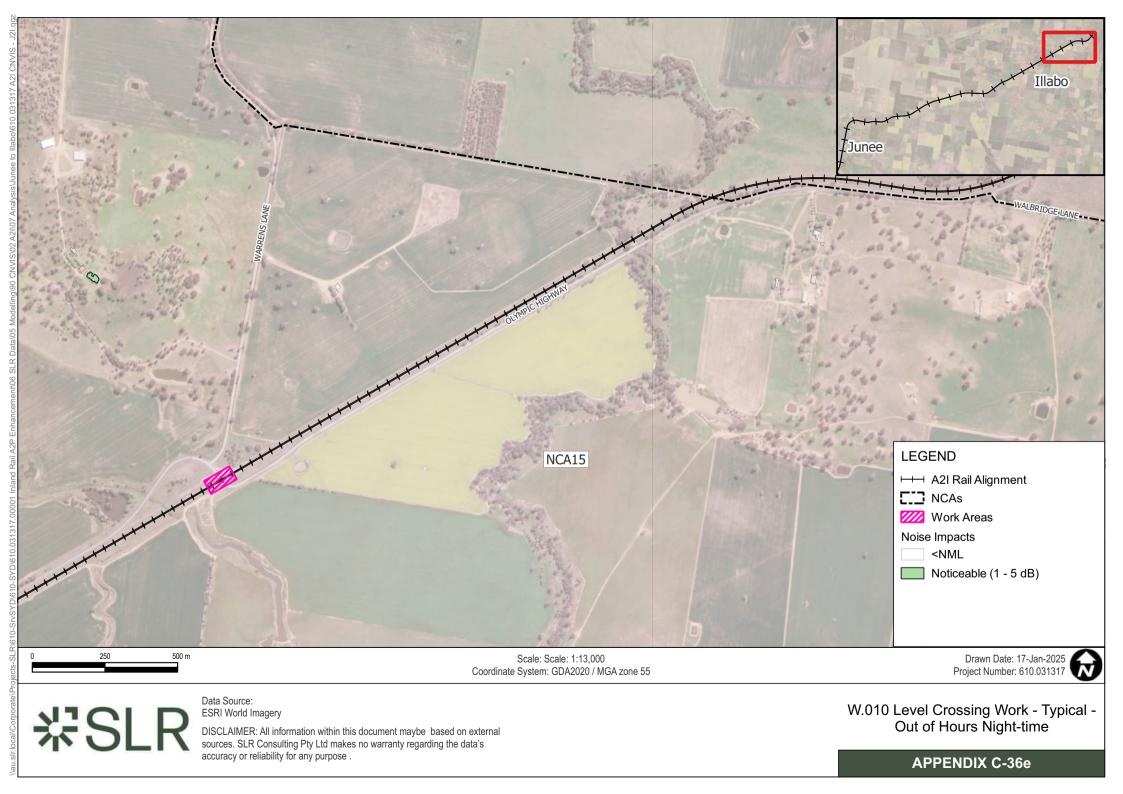


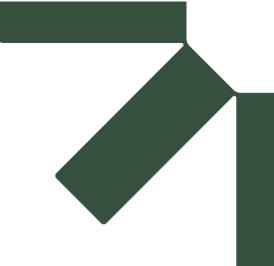












Appendix D Receivers Triggering Additional Mitigation

A2I | Albury to Illabo – Junee to Illabo

Construction Noise and Vibration Impact Statement

Martinus Rail

SLR Project No.: 610.031317.00001

5 February 2025



W.003 Track Work - Peak

W.003 II	ack work - Peak								
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)
	278 WATERWORKS RD, JUNEE NSW 2663		46	46		40	Daytime CON	(>2 consecutive rest periods)	CO1
225697	426 WATERWORKS RD, JUNEE NSW 2003	51 51	46	46	38 38	53	- CO1	- CO1	C01
226197	MT PLEASANT 493 OLYMPIC HWY, MARINNA NSW	51	46	46	38	62	CO1. CO2	C01. C02	CO1. CO2. (RO.AO)*
			46	46					
226255	701 OLYMPIC HWY, MARINNA NSW 2663	51	46	46 999	38 999	64 82	CO1, CO2 CO1	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226281	744 OLYMPIC HWY, WANTIOOL NSW 2663	75					CO1	-	- CO1
226296	1272 OLYMPIC HWY, ILLABO NSW 2590	51	46	46	38	40	-	-	
226317	731 BALLENGOARRAH LANE, WANTIOOL NSW 266	51	46	46	38	58	CO1	C01	CO1, CO2, (RO,AO)*
226318	731 BALLENGOARRAH LANE, WANTIOOL NSW 266	51 51	46	46	38 38	60 50	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)*
226341	120 MARINNA RD, MARINNA NSW 2663		46 46	46			CO1	C01	C01
226353	139 BRABINS RD, ILLABO NSW 2590	51		46	38	39	-	-	C01
226355	128 BRABINS RD, ILLABO NSW 2590	51	46 46	46	38	46 39	-	-	CO1
226375	TIBOROO 1 STANYER RD, ILLABO NSW 2590	51		46	38		-	-	C01
226380	TIBOROO 1 STANYER RD, ILLABO NSW 2590	51	46	46	38	39	-	-	C01
226383	109 EURONGILLY RD, ILLABO NSW 2590	51 51	46 46	46	38 38	44	-	-	C01 C01
226384	167 EURONGILLY RD, ILLABO NSW 2590			46			-	-	
226386	167 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	40	-	-	CO1
226393	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226394	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
226399	24 MORRIS ST, ILLABO NSW 2590	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*
226402	LOT 4 (DP758533) BOREE ST, ILLABO NSW 2590	51	46	46	38	53	CO1	C01	CO1
226426	2-4 TURLAND ST, ILLABO NSW 2590	51	46	46	38	69	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226432	81 ILLABO SHOWGROUND RD, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
226433	2 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	66	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226442	7 BRABINS RD, ILLABO NSW 2590	75	75	999	999	89	CO1	-	-
226453	26 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	65	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	73	CO1, CO2	-	-
	6-8 LAYTON ST, ILLABO NSW 2590	51	46	46	38	65	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*
226472	LESTER ST, ILLABO NSW 2590	55	55	55	999	60	CO1	CO1	-
	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	67	CO1	-	-
226474	29 COMMINS ST, ILLABO NSW 2590	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*
226475	36 TURLAND ST, ILLABO NSW 2590	51	46	46	38	72	CO1, CO2	CO1, CO2, (RO)*	CO1, CO2, RO, (AO, AltA)*
226479	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	65	CO1	-	-
226480	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	66	CO1	-	-
226481	21 WOOD ST, ILLABO NSW 2590	51	46	46	38	69	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226489	33 COMMINS ST, ILLABO NSW 2590	51	46	46	38	55	CO1	CO1	CO1, CO2, (RO,AO)*
226495	81 WOOD ST, ILLABO NSW 2590	51	46	46	38	70	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	2 HOWELL ST, ILLABO NSW 2590	51	46	46	38	63	CO1, CO2	CO1, CO2	CO1, CO2, (RO,AO)*
226502	24-26 LAYTON ST, ILLABO NSW 2590	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*
226504	25 LAYTON ST, ILLABO NSW 2590	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*
	31 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*
226507	7 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	73	CO1, CO2	CO1, CO2, (RO)*	CO1, CO2, RO, (AO, AltA)*
226509	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	62	CO1, CO2	CO1, CO2	CO1, CO2, (RO,AO)*
226510	LOT 4 (DP758533) LAYTON ST, ILLABO NSW 2590	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*
226513	6 TURLAND ST, ILLABO NSW 2590	51	46	46	38	74	CO1, CO2	CO1, CO2, (RO)*	CO1, CO2, RO, (AO, AltA)*
226515	11 HOWELL ST, ILLABO NSW 2590	51	46	46	38	61	CO1	CO1	CO1, CO2, (RO,AO)*
226519	37 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*
226521	33 LAYTON ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*
226525	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*
226526	36 LAYTON ST, ILLABO NSW 2590	55	55	55	999	56	CO1	CO1	-
226529	13 HOWELL ST, ILLABO NSW 2590	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*
226531	17 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	70	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226536	16 HOWELL ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*
226537	35 LAYTON ST, ILLABO NSW 2590	51	46	46	38	55	CO1	CO1	CO1, CO2, (RO,AO)*
226547	41-45 LAYTON ST, ILLABO NSW 2590	51	46	46	38	53	CO1	CO1	C01
226598	72 WARRENS LANE, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
226601	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO N	51	46	46	38	46	-	-	CO1
226603	2184 OLYMPIC HWY, ILLABO NSW 2590	51	46	46	38	40	-	-	CO1
	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO NS	51	46	46	38	43	-	-	C01
	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO N	51	46	46	38	40	-	-	C01
	2184 OLYMPIC HWY, ILLABO NSW 2590	51	46	46	38	39	-	-	C01
	2184 OLYMPIC HWY, ILLABO NSW 2590	51	46	46	38	40	-	-	CO1
	6 JUBILEE ST, ILLABO NSW 2590	51	46	40	38	64	- CO1, CO2	- CO1, CO2	CO1, CO2, RO, (AO, AltA)*
		60	60	60	45	72	CO1, CO2	C01	CO1, CO2, RO, (AO, AltA)*
1000015					40	14	001	001	001, 002, NO, (AO, AIA)
	14 TURLAND ST, ILLABO NSW 2590			46	38	61	CO1	CO1	CO1 CO2 (RO AO)*
1110615	14 TORLAND ST, ILLABO NSW 2590 18 CROWTHER ST, ILLABO NSW 2590 26 MORRIS ST, ILLABO NSW 2590	51 51	46 46	46 46	38 38	61 55	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*

W.004 Tr	ack Work - Typical								
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)
226197	426 WATERWORKS RD, WANTIOOL NSW 2663	51	46	46	38	48	CO1	CO1	CO1
226212	MT PLEASANT 493 OLYMPIC HWY, MARINNA NSW 20	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*
226255	701 OLYMPIC HWY, MARINNA NSW 2663	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*
	744 OLYMPIC HWY, WANTIOOL NSW 2663	75	75	999	999	78	CO1	-	-
	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	53	CO1	CO1	CO1
	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	55	CO1	CO1	CO1, CO2, (RO,AO)*
	120 MARINNA RD, MARINNA NSW 2663	51	46	46	38	45	-	-	CO1
	128 BRABINS RD, ILLABO NSW 2590	51	46	46	38	41	-	•	C01
	109 EURONGILLY RD, ILLABO NSW 2590	51 51	46 46	46 46	38 38	39 47	- CO1	- CO1	CO1 CO1
	47 EURONGILLY RD, ILLABO NSW 2590 47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	47	C01	001	C01
	24 MORRIS ST, ILLABO NSW 2590	51	40	40	38	45	- CO1	- CO1	C01
	LOT 4 (DP758533) BOREE ST, ILLABO NSW 2590	51	40	40	38	48	CO1	C01	C01
	2-4 TURLAND ST, ILLABO NSW 2590	51	40	40	38	64	CO1. CO2	C01. C02	CO1. CO2. RO. (AO. AltA)*
	81 ILLABO SHOWGROUND RD, ILLABO NSW 2590	51	40	40	38	49	CO1	C01	CO1, CO2, RO, (AO, AIA)
	2 CROWTHER ST. ILLABO NSW 2590	51	46	46	38	61	CO1	C01	CO1. CO2. (RO.AO)*
	7 BRABINS RD. ILLABO NSW 2590	75	75	999	999	84	CO1	-	-
226453	26 CROWTHER ST. ILLABO NSW 2590	51	46	46	38	60	CO1	CO1	CO1, CO2, (RO,AO)*
	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	68	CO1	-	-
226467	6-8 LAYTON ST, ILLABO NSW 2590	51	46	46	38	60	CO1	CO1	CO1, CO2, (RO,AO)*
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226472	LESTER ST, ILLABO NSW 2590	55	55	55	999	56	CO1	CO1	-
	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	62	CO1	-	-
	29 COMMINS ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
226475	36 TURLAND ST, ILLABO NSW 2590	51	46	46	38	67	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	60	CO1	-	-
	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	62	CO1	-	-
	21 WOOD ST, ILLABO NSW 2590	51	46	46	38	64	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	33 COMMINS ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
	81 WOOD ST, ILLABO NSW 2590	51	46	46	38	64	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	2 HOWELL ST, ILLABO NSW 2590 24-26 LAYTON ST, ILLABO NSW 2590	51	46 46	46 46	38 38	58 54	CO1 CO1	CO1 CO1	CO1, CO2, (RO,AO)* CO1, CO2, (RO,AO)*
	24-26 LAYTON ST, ILLABO NSW 2590 25 LAYTON ST, ILLABO NSW 2590	51 51	46	46	38	54	CO1	C01	CO1, CO2, (RO,AO)*
	31 CROWTHER ST, ILLABO NSW 2590	51	40	40	38	52	CO1	C01	CO1, CO2, (KO,AO)
	7 TOOHEYS LANE, ILLABO NSW 2590	51	40	40	38	68	CO1. CO2	C01. C02	CO1, CO2, RO, (AO, AltA)*
	10 HOWELL ST, ILLABO NSW 2590	51	40	40	38	57	CO1	C01	CO1, CO2, (RO, AO)*
	LOT 4 (DP758533) LAYTON ST. ILLABO NSW 2590	51	46	46	38	52	CO1	C01	CO1
	6 TURLAND ST, ILLABO NSW 2590	51	46	46	38	68	CO1. CO2	CO1. CO2	CO1, CO2, RO, (AO, AltA)*
	11 HOWELL ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*
226519	37 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226521	33 LAYTON ST, ILLABO NSW 2590	51	46	46	38	53	CO1	CO1	CO1
226525	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	53	CO1	CO1	CO1
	13 HOWELL ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
	17 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	65	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	16 HOWELL ST, ILLABO NSW 2590	51	46	46	38	51	CO1	CO1	CO1
	35 LAYTON ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
	41-45 LAYTON ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
	72 WARRENS LANE, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1
	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO NSV	51	46	46	38	41	-	-	CO1
	6 JUBILEE ST, ILLABO NSW 2590	51	46	46	38	59	CO1	C01	CO1, CO2, (RO,AO)*
	14 TURLAND ST, ILLABO NSW 2590	60	60	60	45	66	CO1	CO1	CO1, CO2, (RO,AO)*
	18 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	56	CO1	C01	CO1, CO2, (RO,AO)*
1110660	26 MORRIS ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1

W.005 Track Tamping										
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)	
226197	426 WATERWORKS RD, WANTIOOL NSW 2663	51	46	46	38	50	CO1	CO1	CO1	
226212	MT PLEASANT 493 OLYMPIC HWY, MARINNA NSW 26	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*	
226255	701 OLYMPIC HWY, MARINNA NSW 2663	51	46	46	38	60	CO1	CO1	CO1, CO2, (RO,AO)*	
226281	744 OLYMPIC HWY, WANTIOOL NSW 2663	75	75	999	999	80	CO1	-	-	
226317	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	55	CO1	CO1	CO1, CO2, (RO,AO)*	
226318	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*	
226341	120 MARINNA RD, MARINNA NSW 2663	51	46	46	38	47	CO1	CO1	CO1	
226355	128 BRABINS RD, ILLABO NSW 2590	51	46	46	38	43	-	-	CO1	
226383	109 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1	
226393	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1	
226394	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	47	CO1	CO1	CO1	
226399	24 MORRIS ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*	
	LOT 4 (DP758533) BOREE ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1	
226426	2-4 TURLAND ST. ILLABO NSW 2590	51	46	46	38	66	CO1, CO2	CO1. CO2	CO1, CO2, RO, (AO, AltA)*	
	81 ILLABO SHOWGROUND RD, ILLABO NSW 2590	51	46	46	38	51	CO1	CO1	CO1	
	2 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	63	CO1, CO2	CO1. CO2	CO1, CO2, (RO,AO)*	
	7 BRABINS RD, ILLABO NSW 2590	75	75	999	999	86	CO1	-	-	
	26 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	62	CO1. CO2	CO1. CO2	CO1, CO2, (RO,AO)*	
226465	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	70	CO1	-	-	
226467	6-8 LAYTON ST, ILLABO NSW 2590	51	46	46	38	62	CO1, CO2	CO1. CO2	CO1, CO2, (RO,AO)*	
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*	
226472	LESTER ST, ILLABO NSW 2590	55	55	55	999	58	CO1	CO1	-	
226473	11 LAYTON ST. ILLABO NSW 2590	55	55	999	999	64	CO1	-	-	
226474	29 COMMINS ST. ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*	
226475	36 TURLAND ST, ILLABO NSW 2590	51	46	46	38	69	CO1, CO2	CO1. CO2	CO1, CO2, RO, (AO, AltA)*	
226479	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	62	CO1	-	-	
226480	11 LAYTON ST, ILLABO NSW 2590	55	55	999	999	64	CO1	-	-	
226481	21 WOOD ST, ILLABO NSW 2590	51	46	46	38	66	CO1, CO2	CO1. CO2	CO1, CO2, RO, (AO, AltA)*	
226489	33 COMMINS ST. ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1	
226495	81 WOOD ST, ILLABO NSW 2590	51	46	46	38	66	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*	
226496	2 HOWELL ST, ILLABO NSW 2590	51	46	46	38	60	CO1	CO1	CO1, CO2, (RO,AO)*	
226502	24-26 LAYTON ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*	
226504	25 LAYTON ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*	
226506	31 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*	
226507	7 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	70	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*	
226509	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*	
226510	LOT 4 (DP758533) LAYTON ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*	
226513	6 TURLAND ST, ILLABO NSW 2590	51	46	46	38	70	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*	
226515	11 HOWELL ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*	
226519	37 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*	
226521	33 LAYTON ST, ILLABO NSW 2590	51	46	46	38	55	CO1	CO1	CO1, CO2, (RO,AO)*	
226525	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	55	CO1	CO1	CO1, CO2, (RO,AO)*	
226529	13 HOWELL ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*	
226531	17 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	67	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*	
226536	16 HOWELL ST, ILLABO NSW 2590	51	46	46	38	53	CO1	CO1	C01	
226537	35 LAYTON ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	C01	
226547	41-45 LAYTON ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1	
226598	72 WARRENS LANE, ILLABO NSW 2590	51	46	46	38	51	CO1	CO1	C01	
226601	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO NSV	51	46	46	38	43	-	-	C01	
226607	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO NSV	51	46	46	38	40	-	-	C01	
	6 JUBILEE ST, ILLABO NSW 2590	51	46	46	38	61	CO1	CO1	CO1, CO2, (RO,AO)*	
1000915	14 TURLAND ST, ILLABO NSW 2590	60	60	60	45	68	CO1	CO1	CO1, CO2, (RO,AO)*	
		54							00.000 (00.00)	
1110615	18 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*	

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)
226393	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
226394	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	43	-	-	C01
226399	24 MORRIS ST, ILLABO NSW 2590	51	46	46	38	42	-	-	CO1
226402	LOT 4 (DP758533) BOREE ST, ILLABO NSW 2590	51	46	46	38	45	-	-	CO1
226426	2-4 TURLAND ST, ILLABO NSW 2590	51	46	46	38	40	-	-	CO1
226432	81 ILLABO SHOWGROUND RD, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	C01
226453	26 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	42	-	-	CO1
226467	6-8 LAYTON ST, ILLABO NSW 2590	51	46	46	38	44	-	-	CO1
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	39	-	-	CO1
226475	36 TURLAND ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
226481	21 WOOD ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226489	33 COMMINS ST, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1
226495	81 WOOD ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*
	2 HOWELL ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226502	24-26 LAYTON ST, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
226504	25 LAYTON ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
226506	31 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	44		-	CO1
226507	7 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	68	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226509	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226510	LOT 4 (DP758533) LAYTON ST, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
	6 TURLAND ST, ILLABO NSW 2590	51	46	46	38	69	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
	11 HOWELL ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
226519	37 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1
226521	33 LAYTON ST, ILLABO NSW 2590	51	46	46	38	45		-	CO1
226525	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
226529	13 HOWELL ST, ILLABO NSW 2590	51	46	46	38	53	CO1	CO1	CO1
226531	17 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	61	CO1	CO1	CO1, CO2, (RO,AO)*
226536	16 HOWELL ST, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1
	35 LAYTON ST, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1
	41-45 LAYTON ST, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
000429	6 JUBILEE ST, ILLABO NSW 2590	51	46	46	38	57	CO1	CO1	CO1, CO2, (RO,AO)*
1110615	18 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	42		-	CO1
110660	26 MORRIS ST, ILLABO NSW 2590	51	46	46	38	43	-	-	CO1

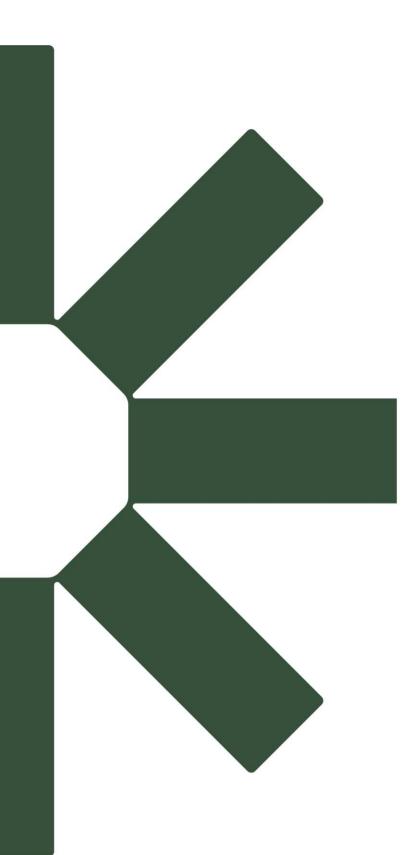
W.007 D	rainage Work								
SLR ID	ADDRESS	NML Daytime	NML Daytime OOH	NML Evening	NML Night-time	Predicted Level LAeq(15min)	Additional Mitigation Daytime OOH	Additional Mitigation Evening *(>2 consecutive rest periods)	Additional Mitigation Night *(>2 consecutive sleep periods)
226317	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	52	CO1	CO1	CO1
226318	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
226341	120 MARINNA RD, MARINNA NSW 2663	51	46	46	38	42		-	CO1
	24 MORRIS ST, ILLABO NSW 2590	51	46	46	38	40		-	CO1
226426	2-4 TURLAND ST, ILLABO NSW 2590	51	46	46	38	46		-	CO1
226433	2 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	41		-	CO1
226453	26 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	43		-	CO1
226474	29 COMMINS ST, ILLABO NSW 2590	51	46	46	38	42		-	CO1
	33 COMMINS ST, ILLABO NSW 2590	51	46	46	38	41			CO1
	18 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	40	-		CO1
1110660	26 MORRIS ST, ILLABO NSW 2590	51	46	46	38	39		-	CO1

W.008 S	V.008 Signalling Work								
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)
226317	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	39	-	-	CO1
226318	731 BALLENGOARRAH LANE, WANTIOOL NSW 2663	51	46	46	38	39	-	-	CO1

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)
226255	701 OLYMPIC HWY, MARINNA NSW 2663	51	46	46	38	52	CO1	CO1	CO1
226393	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
226394	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	45		-	CO1
226399	24 MORRIS ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
226402	LOT 4 (DP758533) BOREE ST, ILLABO NSW 2590	51	46	46	38	48		CO1	CO1
226426	2-4 TURLAND ST, ILLABO NSW 2590	51	46	46	38	66	CO1, CO2	CO1, CO2	CO1, CO2, RO, (AO, AltA)*
226432	81 ILLABO SHOWGROUND RD, ILLABO NSW 2590	51	46	46	38	43		-	CO1
226433	2 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	63	CO1, CO2	CO1, CO2	CO1, CO2, (RO,AO)*
226453	26 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	62	CO1, CO2	CO1, CO2	CO1, CO2, (RO,AO)*
226467	6-8 LAYTON ST, ILLABO NSW 2590	51	46	46	38	53		CO1	CO1
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	54		CO1	CO1, CO2, (RO,AO)*
226474	29 COMMINS ST, ILLABO NSW 2590	51	46	46	38	56	CO1	CO1	CO1, CO2, (RO,AO)*
226475	36 TURLAND ST, ILLABO NSW 2590	51	46	46	38	52		CO1	CO1
226481	21 WOOD ST, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1
226489	33 COMMINS ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226495	81 WOOD ST, ILLABO NSW 2590	51	46	46	38	48		CO1	CO1
226496	2 HOWELL ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
226502	24-26 LAYTON ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
226504	25 LAYTON ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
226506	31 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
226507	7 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	44	-	-	CO1
226509	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
226510	LOT 4 (DP758533) LAYTON ST, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1
226513	6 TURLAND ST, ILLABO NSW 2590	51	46	46	38	44		-	C01
226515	11 HOWELL ST, ILLABO NSW 2590	51	46	46	38	47	CO1	CO1	C01
226519	37 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1
226521	33 LAYTON ST, ILLABO NSW 2590	51	46	46	38	46	-	-	CO1
226525	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	C01
226529	13 HOWELL ST, ILLABO NSW 2590	51	46	46	38	45		-	C01
226531	17 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	40	-	-	C01
226536	16 HOWELL ST, ILLABO NSW 2590	51	46	46	38	45	-	-	CO1
226537	35 LAYTON ST, ILLABO NSW 2590	51	46	46	38	44		-	CO1
226547	41-45 LAYTON ST, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1
226598	72 WARRENS LANE, ILLABO NSW 2590	51	46	46	38	39	-	-	CO1
226601	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO NSV	51	46	46	38	43	-	-	CO1
1000429	6 JUBILEE ST, ILLABO NSW 2590	51	46	46	38	44	-	-	C01
1000915	14 TURLAND ST, ILLABO NSW 2590	60	60	60	45	66	CO1	CO1	CO1, CO2, (RO,AO)*
1110615	18 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*
1110660	26 MORRIS ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1

W.010 Level Crossing Work - Typical

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)
226255	701 OLYMPIC HWY, MARINNA NSW 2663	51	46	46	38	48	CO1		CO1
226393	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	42			CO1
226394	47 EURONGILLY RD, ILLABO NSW 2590	51	46	46	38	41		-	CO1
226399	24 MORRIS ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
226402	LOT 4 (DP758533) BOREE ST, ILLABO NSW 2590	51	46	46	38	44		-	CO1
226426	2-4 TURLAND ST, ILLABO NSW 2590	51	46	46	38	62	CO1, CO2	CO1, CO2	CO1, CO2, (RO,AO)*
226432	81 ILLABO SHOWGROUND RD, ILLABO NSW 2590	51	46	46	38	39			CO1
226433	2 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	59	CO1	CO1	CO1, CO2, (RO,AO)*
226453	26 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	58	CO1	CO1	CO1, CO2, (RO,AO)*
226467	6-8 LAYTON ST, ILLABO NSW 2590	51	46	46	38	49	CO1	CO1	CO1
226468	23 COMMINS ST, ILLABO NSW 2590	51	46	46	38	50	CO1	CO1	CO1
226474	29 COMMINS ST, ILLABO NSW 2590	51	46	46	38	52	CO1	CO1	CO1
226475	36 TURLAND ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
226481	21 WOOD ST, ILLABO NSW 2590	51	46	46	38	45	-	-	CO1
226489	33 COMMINS ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1
226495	81 WOOD ST, ILLABO NSW 2590	51	46	46	38	44		-	CO1
226496	2 HOWELL ST, ILLABO NSW 2590	51	46	46	38	46		-	CO1
226502	24-26 LAYTON ST, ILLABO NSW 2590	51	46	46	38	44	-	-	CO1
226504	25 LAYTON ST, ILLABO NSW 2590	51	46	46	38	44		-	CO1
	31 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	46		-	CO1
226507	7 TOOHEYS LANE, ILLABO NSW 2590	51	46	46	38	40		-	CO1
226509	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	44	-	-	CO1
226513	6 TURLAND ST, ILLABO NSW 2590	51	46	46	38	40		-	CO1
226515	11 HOWELL ST, ILLABO NSW 2590	51	46	46	38	43		-	CO1
226519	37 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	45		-	CO1
226521	33 LAYTON ST, ILLABO NSW 2590	51	46	46	38	42	-	-	CO1
226525	10 HOWELL ST, ILLABO NSW 2590	51	46	46	38	44		-	CO1
226529	13 HOWELL ST, ILLABO NSW 2590	51	46	46	38	41		-	CO1
226536	16 HOWELL ST, ILLABO NSW 2590	51	46	46	38	41	-	-	CO1
226537	35 LAYTON ST, ILLABO NSW 2590	51	46	46	38	40	-	-	CO1
226601	BEHTUNGRA PARK 37 WARRENS LANE, ILLABO NSV	51	46	46	38	39	-	-	CO1
	6 JUBILEE ST, ILLABO NSW 2590	51	46	46	38	40			CO1
1000915	14 TURLAND ST, ILLABO NSW 2590	60	60	60	45	62	CO1		CO1, CO2, (RO,AO)*
1110615	18 CROWTHER ST, ILLABO NSW 2590	51	46	46	38	54	CO1	CO1	CO1, CO2, (RO,AO)*
1110660	26 MORRIS ST, ILLABO NSW 2590	51	46	46	38	48	CO1	CO1	CO1



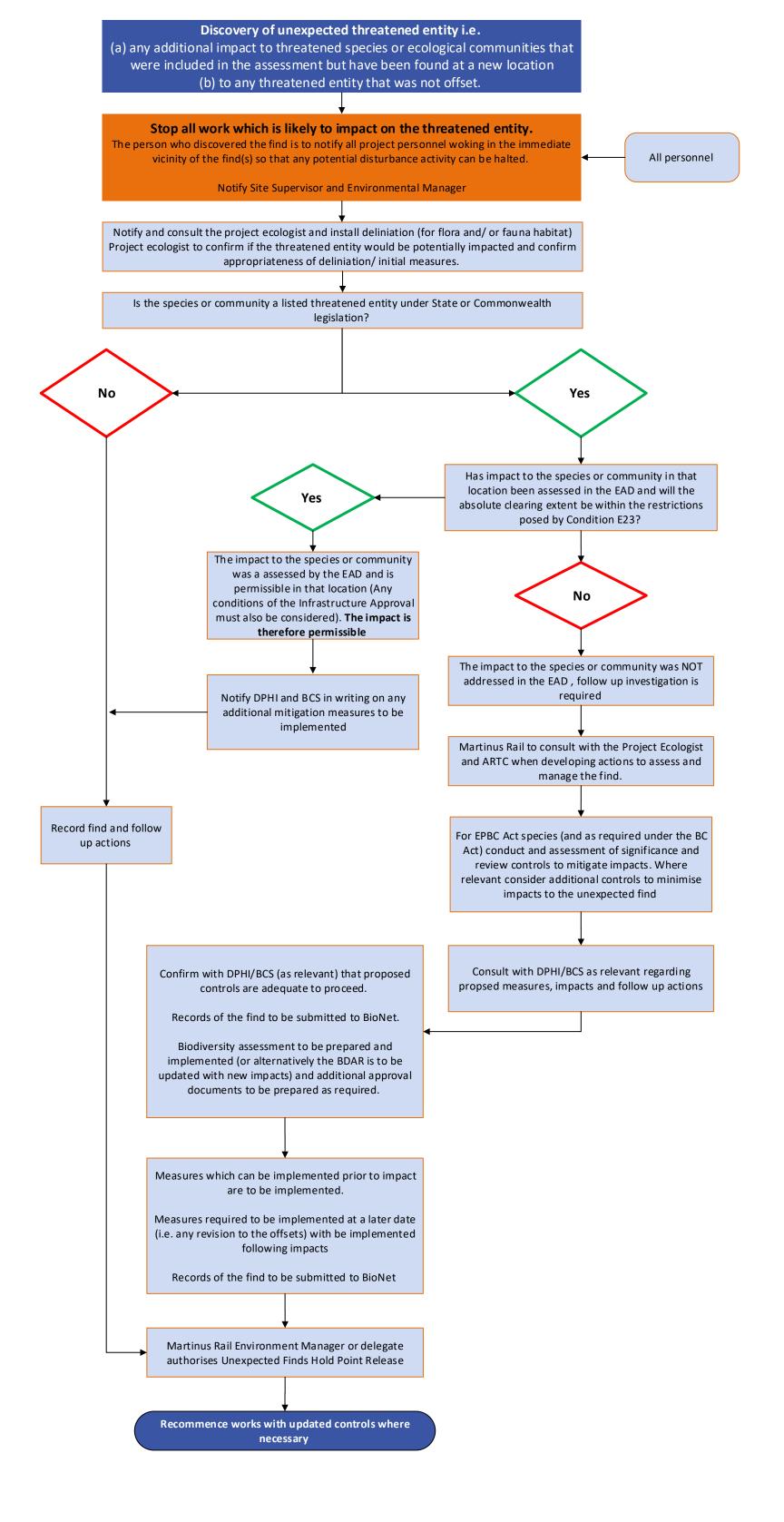
Making Sustainability Happen





APPENDIX E

Unexpected Finds Procedure (Flora and Fauna)

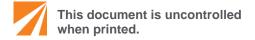


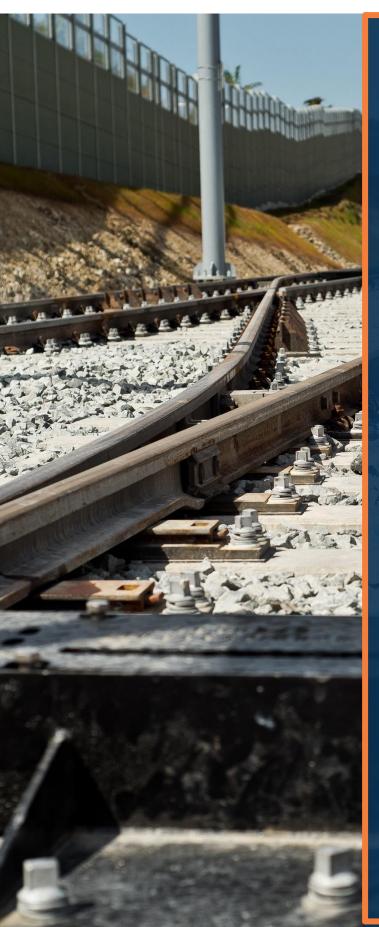




APPENDIX F

Fauna Handling and Rescue Procedure







FAUNA HANDLING AND RESCUE PROCEDURE – BIODIVERSITY Albury to Illabo

CONTRACT NUMBER: 0052 PROJECT DOCUMENT NUMBER: 6-0052-210-PES-00-PR-0001



ALBURY TO ILLABO | A2I CONSTRUCTION BIODIVERSITY MANAGEMENT PLAN - STAGE A

Document Control

DOCUMENT TITLE:	Fauna Handling and Rescue Procedure – Biodiversity					
DOCUMENT OWNER:	Chris Standing – Environment, Approvals and Sustainability Manager					
PREPARED BY:	Katie Baxter TITLE: Environmental Approvals Lead – A2I					
SIGNATURE:			DATE:	13 August 2024		
REVIEWED BY:	Alex Graham	TITLE:	Principal	Ecologist – East Coast Ecology		
SIGNATURE:		DATE: 13 August 2024				

Approved by

NAME	TITLE	SIGNATURE	DATE

Revision History

REVISION	REVISION DATE	AMENDMENT	DATE TO CLIENT
А	13 August 2024	First revision for client and ER review	13 August 2024
В	10 October 2024	Second revision for client and ER review and consultation	10 October 2024
0	10 December 2024	Third revision in response to BCS comments	10 December 2024

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1 INTRODUCTION

This Fauna Handling and Rescue Procedure (this Procedure) forms part of the Construction Biodiversity Management Plan (CBMP) prepared for the Albury to Illabo Inland Rail project and forms part of the overall environmental management framework for the project.

This Procedure applies to the handling of any fauna encountered during construction if required.

1.1 Induction and training

All Project personnel are to be inducted on the existence of this Procedure during the Project Induction and in more detail as required in Site Inductions and regular Toolbox Talks. Records of all training, including inductions, will be maintained. Records will include the name and role of the attendee, the date of training/induction as well as the name of the course.

1.2 Scope

This procedure is applicable for the following:

- All activities conducted by site personnel (including sub-contractors) that have the potential to encounter fauna that will need to be relocated or removed from site and;
- Vegetation clearing and land disturbance.

Handling of fauna may be necessary for fauna to be relocated or, if injured, taken to a vet or wildlife carer. A wildlife licence and/or scientific licence must be held by any staff handling fauna and should be undertaken either by the project ecologist or a person skilled in handling the species of fauna encountered.

Should any threatened species be identified, the Unexpected Threatened Species Finds Procedure (Appendix A of the CBMP) will be implemented.

1.3 Permits and Licenses

A Scientific Licence under Part 2 of the *Biodiversity Conservation Act 2016* (BC Act) (including Animal Ethics Approval under the Animal Research Act 1985) is required for fauna handling/rescue and survey work. Where rescued fauna requires rehabilitation and care, only wildlife rehabilitation organisations authorised under Part 2 of the BC Act may be used. A wildlife licence and/or scientific licence must be held by any staff handling fauna.



2 GENERAL FAUNA HANDLING AND RESCUE PROCEDURE

This Procedure will be implemented only if intervention is necessary (i.e. where fauna is injured or otherwise unable to leave the site without intervention), or to minimise stress to native fauna and/ or remove the risk of further injury.

Fauna may be encountered in a variety of situations during delivery of the project. During staged clearing activities, any fauna handling will be carried out by the Project Ecologist or a trained fauna handler. During other construction activities or non-staged clearing (when the Project Ecologist or fauna handler may not be present on site), fauna may require handling by other Project personnel. Wherever possible, the Project Ecologist or trained fauna handler will be used.

Due to the remoteness and large distances between work sites, there may be times when the Project Ecologist or fauna handler is not present on-site, and it is more important to move the fauna from danger or harm. In these circumstances, Martinus Rail personnel may be required to handle the fauna (i.e. where that movement removes the fauna from danger or harm). Appropriate animal handling gear, as described below and in Section 3, should be kept at the site offices and in site vehicles where possible.

The Project must contact local veterinary clinics and/or wildlife carers at least seven days in advance of clearing works commencement to confirm their willingness to treat injured wildlife and advise them of the upcoming clearing schedule.

If wildlife (including aquatic) is discovered on the project site during construction activities that may harm the animal or pose a risk to site personnel, the following steps will be taken:

- 1. Stop all work in the vicinity of the fauna, turn off all machinery, and immediately notify the Foreman who is then to notify the Environment Manager. The Environment Manager is then to immediately notify the Project Ecologist to discuss the best course of action, e.g. if the animal is injured then take it to a wildlife rescue organisation or the closest Veterinary clinic;
- 2. Preferably allow fauna to leave the area without intervention if it is not injured or in shock and if safe to do so (i.e. no machinery in the immediate vicinity). In the event the Project Ecologist or local wildlife rescue cannot be contacted, the injured animal will be delivered to the closest vet as soon as possible. The contact details for available vets and WIRES are provided in Table 1;
- 3. Where necessary, to minimise stress to native fauna and/ or remove the risk of further injury before the appropriate rescue agency arrives onsite, Martinus Environmental Personnel shall cover the animal with a towel or blanket and place it in a cardboard box and/or hessian bag. Appropriate temporary housing for fauna is species-dependent. Gliders, possums, bats, snakes and lizards can be held individually in a calico bag until released in adjacent habitat. Healthy frogs are to be placed in separate, partially inflated single-use plastic bags and include a small amount of leaf litter or clean (i.e. washed in a 0.1 per cent concentration of a benzalkonium chloride-based disinfectant solution such as F10SC at 1:250 dilution and not re-used) damp cloth bag containing a small amount of leaf litter. Nesting birds and eggs are best placed in a covered cardboard box equipped with soft cloth.
 - a. Place small animals in a cotton bag, tied at the top;
 - b. Rescued fauna must be protected from exposure to heat and removed from the areas undergoing clearing activities to minimise noise exposure. Keep the animal in a quiet, cool, ventilated and dark place. A designated site would be decided upon in advance of any construction work;
 - c. Aquatic fauna to be placed in a plastic aquarium or plastic bag with a sufficient amount of water sourced from the point of collection. Frogs would be transported without water or debris in recognition of the risk of transporting disease and the minimal transport time. Any frog handling would be undertaken in accordance with the Hygiene Guidelines (DPIE, 2020) (see Section 3.6);
 - d. Some animals require particular handling (e.g. venomous reptiles, raptors) and should only be handled by appropriately qualified personnel;
 - e. If handling bats, the handler must be vaccinated against the Australian Bat Lyssavirus (ABLV), which is a form of rabies and have appropriate licences to handle;
 - f. Equipment for fauna rescue (including but not limited to a hessian sack, calico bags, cloths/ towels, single-use, non-latex, non-powdered (i.e. nitrile) disposable gloves, suitable animal handling gloves and transport boxes) will be kept in designated locations for emergency use by site staff if required. The fauna specialist will carry a fauna rescue kit in a site vehicle, and an additional kit will be located in the site office;
 - g. Ensure a fully equipped standard first aid kit is on their person at all times, which should include a minimum of two snake bandages. Any animal handling must be undertaken by, or under the supervision of, a person with first-aid training;
- 4. If the animal cannot be handled but appears to be injured or in shock and has not moved on of its own accord, exclude personnel from the vicinity, record the exact location of the animal and contact the Project Ecologist and/ or rescue agency who will advise on a case-by-case basis;
- 5. If the fauna species is identified as a threatened species that is not a species identified in the CBMP, the Environment Manager must:

ALBURY TO ILLABO | A2I CONSTRUCTION BIODIVERSITY MANAGEMENT PLAN - STAGE A



- a. Immediately cease all work likely to affect the threatened species;
- b. If the fauna is injured, call the rescue agency and notify the Project Ecologist; and
- c. Implement the Unexpected Threatened Species Find procedure in Appendix A of the CBMP.
- 6. If the fauna is to be released, the Project Ecologist must identify suitable fauna release locations within or near the project site.

All relevant project documentation would be updated to display the new findings and subsequent management measures where required. This would include such documents as CBMP (and associated documents) and Sensitive Area Plans (SAPs).

If fauna is handled or moved during clearing activities, this will be recorded in post-clearing reports. Due to the linear nature of the Project, there will be a range of different roads and access tracks in which Project personnel or subcontractors may encounter fauna. The likelihood of encountering fauna during dawn and dusk is increased. If fauna is struck by a vehicle, the general fauna handling and rescue procedure is to be followed and the incident is to be recorded by the MR Environment team in the Incident Reporting Protocol (Table 2) and requires reporting via the incident management database per the Safety Management Plan.

3 SPECIFIC HANDLING REQUIREMENTS

3.1 Birds

General rescue approach for birds:

- If habitat trees are found to contain nestlings or juveniles prior to felling, then it would be preferable to leave trees intact until such a time that juveniles have vacated the nest or den. However, if construction timing does not permit this then attempts should be made to rescue juveniles for possible captive rearing and subsequent release into relocation sites;
- Where possible and safe to do so, gain access to nests/hollows and relocate to nearby safe areas avoiding the direct handling of eggs and chicks where possible. Nest platforms/poles and nest boxes will be considered on a case-by-case basis where they provide benefit to a threatened species and as advised by the project ecologist;
- Capture and remove any nestlings;
- Place nestlings in cotton capture bags and assess for injuries. Store bags containing nestlings in a pet-carrying
 cage or ventilated cardboard box. The animal container will be covered to reduce stress on the bird. Deliver to
 specialist wildlife carer;
- If adult birds are captured, they will be released away from construction activities; and
- Raptors should only be handled by experienced fauna handlers and with welders' gloves for the talons.

3.2 Small ground-dwelling mammals

General rescue approach for ground-dwelling mammals:

- If a small mammal is within the construction zone, activities in the area that may impact the animal may need to cease;
- Small mammals should be calmly encouraged or left to leave the work area;
- If small mammals are found during habitat removal, they will need to be captured and relocated;
- If an echidna is found, dig it out by hand or carefully by shovel to the side of the echidna. The aim is to get a hand(s) beneath the animal and to lift it from the soil. Ensure thick gloves are used if handling;
- If native rodents or bandicoots are found, capture them using your gloved hands or with a net and place them in a cloth bag;
- Handling of small mammals will be undertaken by suitably trained and qualified animal handlers; and
- Place small mammals in a larger container, such as a pet carry case. Captive mammals will be kept in a cool, well-ventilated location, out of direct sun. Uninjured small mammals will be translocated to adjacent un-impacted bushland and released as soon as possible.

3.3 Large ground-dwelling mammals

General rescue approach for kangaroos, wallabies, wombats and introduced pests:

- If a large mammal is within the construction zone, activities in the area that may impact the animal may need to cease;
- Large mammals should be calmly encouraged, or left, to leave the work area;
- In the event that a juvenile is displaced (thrown from a pouch) and cannot be reunited with its parent, it will be taken to a vet or wildlife carer;
- Gloves should be worn at all times when handling mammals to mitigate risks from kicking and scratching; and
- Introduced pests such as goats, deer and pigs should not be handled. All pest species should be corralled/ directed out of the project.

3.4 Arboreal mammals

General rescue approach for arboreal mammals:

- If arboreal mammals are found during vegetation clearing, the Project Ecologist/ fauna handler will determine if capture and relocation are warranted;
- Animals will be captured either by hand or net and placed into a suitable cage;
- If uninjured, captured animals will be released at a location deemed suitable by the Project Ecologist, and;

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In the event that juvenile possums/ gliders are displaced and cannot be reunited with their mother, they will be
managed in accordance with the recommendations of the Project Ecologist or fauna handler. As required, the
juvenile will be taken to a vet or wildlife carer.

3.5 Reptiles

General rescue approach for reptiles:

- Snakes will only be captured and relocated if they present a potential threat to construction personnel or are likely to be harmed by the works. In most cases, snakes will attempt to move away from a disturbed area;
- Reptiles will be captured by the Project Ecologist (when they are available) or by a person who is licensed under the Biodiversity Conservation Act 2016 to catch and release reptiles;
- Snakes will only be handled by approved personnel who are qualified and trained to do so;
- No contact handling techniques (i.e. use a snake hook and bag as opposed to manually handing the snake) are
 recommended for all snakes, and;
- Lizards will be released as soon as possible after capture into suitable habitats outside of the construction zone;

3.6 Amphibians

The Hygiene Guidelines (DPIE, 2020) must be followed for all frog handling to prevent pathogen spread amongst individuals and between catchments. General rescue approach for frogs:

- If there is no option other than to handle amphibians, single-use, non-latex, non-powdered (i.e. nitrile) disposable gloves must be worn when handling individuals. If gloves are not available, then avoid touching the frog with bare hands by using implements to transfer to a container;
- Healthy frogs are to be placed in separate single-use plastic bags which should be partially inflated or clean (i.e. washed in a 0.1 per cent concentration of a benzalkonium chloride-based disinfectant solution such as F10SC at 1:250 dilution and not re-used) damp cloth bag;
- Sick or injured individuals would be euthanised immediately unless there is a high probability of recovery, in which case treatment would be as for healthy frogs;
- Handling equipment, hands and boots to be cleaned of all soil and sprayed with a 0.1 per cent concentration of a benzalkonium chloride-based disinfectant solution (i.e. F10SC at 1:250 dilution) or a Chlorhexidine-based product (e.g. Halamid©) and rinsed when moving between water bodies. Hands may be disinfected using 70 per cent methylated spirits in water;
- Frogs and tadpoles are not to be moved between catchments;
- Dead frogs would be handled only using single-use gloves and buried in situ to avoid movement of pathogens.

3.7 Other mammals: Bats

General rescue approach for bats:

- Bats must only be handled by a qualified ecologist or wildlife carer experienced in bat handling and vaccinated against the Australian Bat Lyssavirus (ABLV);
- Gloves must be worn when handling bats;
- As soon as possible, captured microbats will be placed into a cloth/calico bag hung vertically in a quiet, cool, dark place until released at night;
- Larger bats would be handled by wearing elbow length puncture proof gloves, wrapped in a large towel and placed in a large cloth/calico bag;
- All bats will be relocated into adjacent suitable habitat at night;
- In the event that a juvenile bat is displaced and cannot be reunited with its parent, orphaned animals will be managed in accordance with the recommendations of the Project Ecologist or fauna handler. As required the juvenile will be taken to a vet or wildlife carer.

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4 EUTHANASIA

4.1 When to euthanise

In some cases, rehabilitation and/ or relocation of fauna will not be possible. When it is not possible to transport an injured animal to a wildlife carer or veterinarian (e.g. when injuries are so extreme that survival is not possible), injured fauna must be assessed by the Project Ecologist or Martinus ER and a decision made regarding euthanasia. In keeping with the NSW Code of Practice for Injured, Sick and Orphaned Protected Fauna (Office of Environment and Heritage, 2011), fauna must be euthanised without exception when:

- Death is imminent or highly likely regardless of the treatment provided;
- The animal is suffering from chronic, un-relievable pain or distress;
- The animal is carrying (or suspected to be carrying) an incurable disease that may pose a health risk to wild animals;
- Its ability to consume food unaided is permanently impaired due to a missing or injured jaw, teeth or beak.

Fauna must be euthanised when one or more of the following circumstances apply:

- Its ability to locomote normally (i.e. run, climb, crawl, hop, fly or swim) is permanently impaired due to a missing or injured limb, wing, foot, backbone or tail;
- Its ability to sense its environment (i.e. see, hear, smell, taste or feel) is permanently impaired due to a missing or injured organ (e.g. eye, ear or nose);
- Its ability to catch or handle food is permanently impaired due to missing or injured digits (e.g. missing rear toe in raptors);
- Its advanced age renders it unable to survive in its natural habitat.

4.2 Euthanasia methods

A method appropriate for the species and circumstances should be utilised to ensure minimal pain and suffering. These methods could include:

- Stunning followed by decapitation and/or destruction of the brain for reptiles and amphibians;
- Stunning followed by cervical dislocation for small birds and mammals (less than 0.5 kg)
- Euthanasia carried out by a veterinarian for any other animal.

Any euthanasia methods utilised will be in accordance with those identified in the NSW Code of Practice for Injured, Sick and Orphaned Protected Fauna (Office of Environment and Heritage, 2011).

Fauna that requires euthanasia should not be exposed to additional stressors such as large numbers of onlookers, people touching it, loud noises or extreme temperatures.

Death must be confirmed prior to disposal of the carcass. The absence of a heartbeat and the loss of corneal reflexes indicate death has occurred.

The decision to euthanise an animal can only be made by the Project Ecologist and/or fauna handler. Euthanasia should be carried out by a licenced wildlife carer, veterinarian or the Project Ecologist.

5 CONTACT DETAILS

The contact details for the Project Ecologist and WIRES are provided within Table 1.

TABLE 1: CONTACT DETAILS

Role	Organisation	Location	Contact details
Project Ecologist	East Coast Ecology	Sydney, NSW	The contact details for the Project Ecologist will be retained by the MR project staff and available to personnel upon request
Wildlife Carers	WIRES	National service utilising local volunteers	1300 094 734
Veterinarian	Albury Animal Hospital	323 Wagga Rd, Lavington NSW 2641	(02) 6040 6995
Veterinarian	Wagga Wagga Veterinary Hospital	132 Urana St, Turvey Park NSW 2650	(02) 6926 0900
Veterinarian	Lake Road Vet on Broadway	113 Broadway, Junee NSW 2663	(02) 6926 2289

6 INCIDENT REPORTING PROTOCOL

For any incidents involving fauna, this form (Table 2) is to be completed and provided to the Environment Manager and filed appropriately.

TABLE 2: FAUNA RESCUE RECORDING SHEET.

Item	Detail
Date fauna located	
Time fauna located	
Weather (temperature, wind, cloud cover, precipitation)	
Location (Coordinates and description i.e. in tree hollow; under stockpile, open area etc)	
Fauna type (Mammal, bird, reptile etc)	
Species (if known)	
Visual signs of behaviour	
Condition, general health signs, description of injuries, note if a dead specimen	
Is the fauna injured (YES / NO)	
If YES, please complete Section A; If NO p	lease complete Section B
A – Injured Fauna Reporting	
What time was a fauna specialist (qualified ecologist or wildlife handler) called	
What time did the fauna specialist arrive?	
Fauna specialist name and contact	
What was the outcome? (e.g. Animal euthanized; animal in care; animal taken to vet; treated and relocated)	
B – Non-injured Fauna Reporting	
Where was the fauna relocated? (Coordinates and description) NB Only a qualified fauna ecologist or wildlife handler is to relocate fauna	
Time the fauna relocated?	
Name and qualification of fauna handler	
Visual signs of behaviour on release	
Condition – general health signs – on release	
General	
Other comments	
Completed by	
Signed	





Head Office | 1/23-27 Waratah Street | KIRRAWEE NSW 2232





APPENDIX G

Spill Response Procedure





SPILL RESPONSE PROCEDURE A2I | Albury to Illabo

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



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Approved by

NAME	TITLE	SIGNATURE	DATE
Chris Standing	Environment, Approvals and Sustainability Manager	lSy	14 January 2025

Revision History

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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.





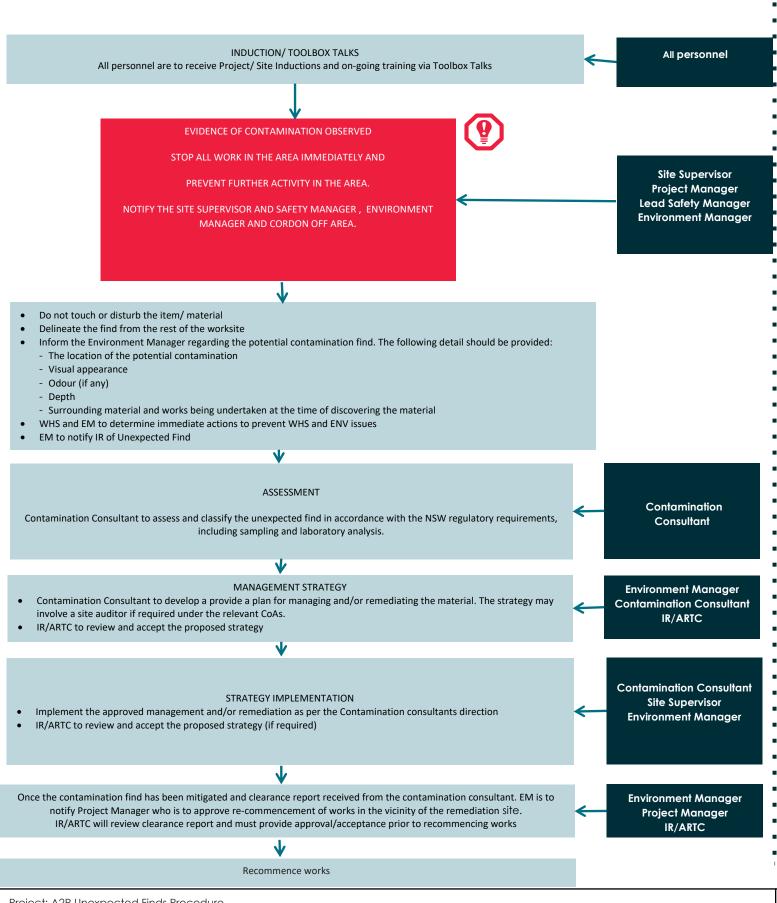


APPENDIX H

Unexpected Finds Procedure (Contamination)

UNEXPECTED FINDS PROCEDURE

MANAGEMENT AND RESPONSIBILITY



Asbestos

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

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



Procedure

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

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Contamination Consultant

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

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

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





APPENDIX I

Unexpected Finds Procedure (Heritage and Human Remains)

ABORIGINAL AND NON-ABORIGINAL HERITAGE: UNEXPECTED FINDS PROCEDURE

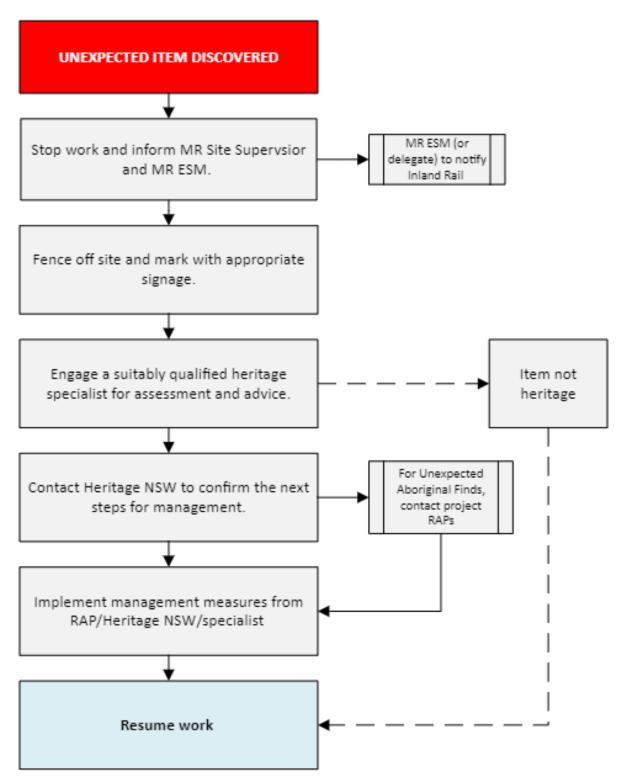
An Aboriginal artefact is anything that is the result of past Aboriginal activity. This includes stone (artefacts, rock engravings etc.), plant (culturally scarred trees) and animal bone (if showing signs of modification; i.e. smoothing, use). Human bone (skeletal remains) may also be uncovered while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

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

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

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





Flow Chart: Unexpected heritage finds

UNEXPECTED HUMAN REMAINS PROCEDURE

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

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

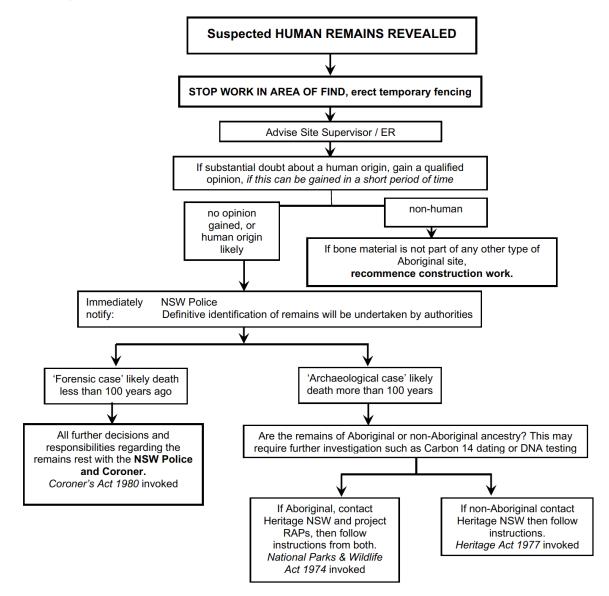
- 1. The area will be temporarily fenced immediately to ensure no damage/further damage to skeletal material. No skeletal material that remains in place should be disturbed from its location;
- 2. Works in the vicinity are to be stopped immediately;
- 3. The Site Supervisor is to be made aware of the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

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Flow Chart: Suspected Human remains

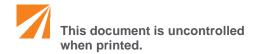






APPENDIX J

Flooding and Bushfire Emergency Management Plan





FLOODING AND BUSHFIRE EMERGENCY MANAGEMENT PLAN -STAGE A

Albury to Illabo | A2I

CONTRACT NUMBER: 0052 PROJECT DOCUMENT NUMBER: 6-0052-210-PMA-00-PL-0008



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Approved by

NAME	TITLE	SIGNATURE	DATE
Andy Williams	Project Director	DATES	22 January 2025

Revision History

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А	15 August 2024	First draft for client and ER review	15 August 2024
В	30 September 2024	Second draft for client and ER review and consultation with SES, Hume Zone and Riverina Zone Bush Fire Management Committees, DCCEEW and relevant councils	30 September 2024
0	13 December 2024	For ER endorsement	23 January 2025

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GLOSSARY

TERM	DEFINITION	
AEP	Annual Exceedance Probability	
APZ	Asset protection zone	
ARTC	Australian Rail Track Corporation	
BFMCMPs	Hume Zone Bush Fire Risk Management Plan (Hume Zone Bush Fire Management Committee, 2016) and the Riverina Bush Fire Risk Management Plan (Riverina Bush Fire Management Committee, 2015)	
CCS	Community Communication Strategy	
CEMF	Construction Environmental Management Framework	
CEMP	Construction Environmental Management Plan – Stage A	
CFBEMP	Construction Flood and Bushfire Emergency Management Plan – Stage A (this Plan)	
CSWMP	Construction Soil and Water Management Plan – Stage A	
СоА	Conditions of Approval	
Construction	Includes work required to construct the CSSI as defined in the Project Description described in the documents listed in Condition A1 including commissioning trials of equipment and temporary use of any part of the CSSI but excluding Low Impact Work which is carried out or completed prior to approval of the CEMP	
CSSI	Critical State Significant Infrastructure	
DCCEEW	Department of Climate Change, Energy, the Environment and Water	
DPE	NSW Department of Planning and Environment	
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). 	
EIS	Environmental Impact Statement	
EMP	Emergency Management Plan	
Environmental Representative (ER)	The Environmental Representative(s) for the CSSI approved by the Planning Secretary	
EMP	Emergency Management Plan	
ERG	Emergency Response Guide	
Fire Authority	A generic term to describe the government fire prevention and control agencies that exist in the various Australian States.	
Fire Danger Period	A calendar period which may be declared by individual states during which restrictions on fires may be imposed. Typically between October/December and April/June. TFB days will typically occur during this period.	
Fire Spotter/Watch	A person directed by the Nominated Site Representative to lookout for fire indications before, during, and after completion of the hot work. The person shall carry out no other tasks associated with performing the hot work.	



A2I | ALBURY TO ILLABO CONSTRUCTION FLOOD AND BUSHFIRE EMERGENCY MANAGEMENT PLAN – STAGE A

TERM	DEFINITION	
Hot Work	Work that has the potential to cause a fire. This includes structural welding, rail welding, oxy gas cutting or heating, rail grinding, cable joining, and any other heat or spark producing operation. (this definition of Hot Work is not to be confused with other uses of the term, such as "Work in High Temperatures" for which there are regulatory requirements regarding prolonged heat exposure etc.)	
MR	Martinus Rail	
MR ESM	Martinus Rail Environment, Approvals and Sustainability Manager	
Nominated Site Representative	A person, normally an Martinus employee or a contractor to Martinus, who is nominated to control the hot work on the worksite. This person may nominate themselves or be nominated by others but shall be on site for the hot work.	
NSW	New South Wales	
PIR	Preferred Infrastructure Report	
Planning Secretary	Secretary of the NSW Department of Infrastructure, Housing and Infrastructure, or delegate	
PMF	Probable Maximum Flood	
Primary CoA/UMM	CoA and/or UMMs that are specific to the development of this Plan	
POEO Act	NSW Protection of Environment Operations Act 1997	
RFS	NSW Rural Fire Service	
SES	State Emergency Services	
TOBAN	Total Fire Ban Day(s)	
Total Fire Ban (TFB)	A ban on the lighting of fires or the conduct of fire-inducing activities which is imposed by a State Government in accordance with that state's legislation for a defined period (often a 24-hour day period)	
UMM	Updated Environmental Management Measures	
VMS	Variable messaging sign(s)	

1 INTRODUCTION

1.1 Project Overview

Inland Rail is an approximate 1,600 kilometres (km) freight rail network that will connect Melbourne and Brisbane via regional Victoria, New South Wales (NSW) 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 (LGAs). Inland Rail will accommodate double-stacked freight trains up to 1,800 metres (m) long and 6.5 m high.

The Australian Government has confirmed that Inland Rail is an important project to meet Australia's growing freight task, improve road safety and help decarbonise the economy. Inland Rail will enhance our national freight and supply chain capabilities, connecting existing freight routes through rail, roads and ports, and supporting Australian's growth. Inland Rail is being delivered by Australian Rail Track Corporation (ARTC).

Comprising 12 sections, a staged approach is being undertaken to deliver Inland Rail. Each of these projects can be delivered and operated independently with tie-in points to the existing railway. Work south of Parkes has been prioritised, which will enable Inland Rail to initially connect to existing rail networks between Melbourne, Sydney, Perth and Adelaide via Parkes and Narromine. The Parkes to Narromine (P2N) and Narrabri to North Star Phase 1 (N2NS P1) sections are complete.

The project will enable enhancement works to structures and sections of track along 185 km of the existing operational standard-gauge railway in the Albury to Illabo (A2I) section of the Inland Rail program. Enhancement works are required to provide the increased vertical and horizontal clearances required for double-stacked freight trains. 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.

A detailed project description is provided in Section 4 of the Construction Environmental Management Plan (CEMP).

1.2 Planning Context

The Inland Rail – Albury to Illabo project (the project) is declared State significant infrastructure (SSI) and critical State significant infrastructure (CSSI) under Division 5.2 of the *Environmental Planning and Assessment Act 1979* (NSW) (EP&A Act). The project is permissible without development consent and is subject to assessment and approval by the NSW Minister for Planning and Public Spaces.

An environmental impact statement (EIS) was prepared to support ARTC's application for approval of the proposal in accordance with the requirements of the EP&A Act and the environmental assessment requirements of the Secretary of the (then) NSW Department of Planning, Industry and Environment (the SEARs) (now the Department of Planning, Housing and Infrastructure (DPHI)).

The EIS was placed on public exhibition from 17 August 2022 to 28 September 2022. During the exhibition period, interested stakeholders and members of the community were able to review the EIS online, participate in consultation and engagement activities held by ARTC, and make a written submission to the DPE for consideration in its assessment of the proposal.

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

1.3 Statutory Context and Approval

The project was assessed as part of the following documents:

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

Part 2 - Revised Technical Paper 8: Biodiversity Development Assessment Report (WSP, February 2024).

Together these documents are referred to as the Environmental Approvals Documentation (EAD).

Approval for the project under the EP&A Act was granted by the Minister for Planning on 8 October 2024.

1.4 Scope of this Stage A Plan

The scope of this Construction Flooding and Bushfire Emergency Management Plan (CFBEMP or this Plan) is to describe how the project will manage potential flood and bushfire emergency impacts during Stage A construction of the project (refer Section 1.4.1).

This Plan addresses the requirements of the EAD including incorporating the relevant updated management measures (UMMs), and CoAs. SMART (Specific, Measurable, Achievable, Realistic and Timely) principles have been considered and applied during the preparation of this Plan which will be implemented for the duration of construction.

This Plan is applicable to all activities during construction of the project, including all areas where physical works will occur or areas that may otherwise be impacted by the construction works, and under the control of Martinus Rail. All Martinus Rail staff and sub-contractors are required to comply with and operate fully under the requirements of this Plan and related environmental management plans, over the full duration of the construction program.

A copy of this Plan will be kept on the premises for the duration of construction.

1.4.1 Staging

The Staging Report describes how the construction and operation of the project will be staged in accordance with CoA A9, A10 and A11. A staged approach has been primarily adopted for the project to prioritise critical activities that are reliant upon infrequent and fixed rail possessions. It overall de-risks the construction program for the project, ensuring that the project is operational within the timeframe committed to by the NSW Government.

As required by CoA A14 and C16, a Construction Environmental Management Framework (CEMF) has been prepared to be consistent with the Staging Report. The CEMF has been prepared to facilitate the preparation and approval of CEMPs, Sub-plans, and construction monitoring plans (CMPs) during the construction phase of the project. It includes a guide to the general environmental, stakeholder and community management requirements which will be implemented during construction and provides a road map for environmental management documentation.

In accordance with CoA C16, the CEMF must be endorsed by the Environmental Representative (ER) and then submitted to the Planning Secretary (for approval) no later than one (1) month before the lodgement of any CEMP, CEMP Sub-plan, or Construction Monitoring Program.

This Plan has been prepared to be consistent with the Staging Report and the CEMF, as required by CoA A11 and A12, as well as C16. This Plan has therefore been prepared to address how Martinus Rail will manage potential flood and bushfire emergency impacts during construction of the first stage of the project – Stage A.

Stage A, as described in Section 2.1.2 of the Staging Report will comprise preparation activities for the March 2025 rail possession (Substage A1), the rail possession activities themselves (Substage A2), and post-possession activities (Substage A3). No construction works will occur at the follow enhancement sites as part of Stage A:

- Murray River Bridge;
- Albury Station pedestrian bridge;
- Albury Yard clearances;
- Riverina Highway bridge;
- Billy Hughes bridge;
- Culcairn pedestrian bridge;
- Culcairn Yard clearances;
- Uranquinty Yard clearances;
- Pearson Street bridge (with exception of short-term utility works);
- Cassidy Parade pedestrian bridge (with exception of short-term utility works);
- Edmondson Street bridge (with exception of short-term utility works);
- Wagga Wagga Station pedestrian bridge;
- Wagga Wagga Yard clearances;
- Bomen Yard clearances;
- Kemp Street bridge;

Junee pedestrian bridge.

This plan applies to the entirety of Stage A.

Based on the approved CEMF approach, this Plan will be endorsed for use by the ER.

Construction work during Stage A will generally include:

- Utility works, including drainage;
- Site establishment and operation;
- Traffic management and access, including material haulage;
- Minor clearing, grubbing and topsoil strip;
- Earthworks including preparation of pads and stockpiling;
- Track work including realignment and lowering;
- Gantry and signalling work.

1.5 Interactions With Other Managements Plans and Strategies

This Plan has the following interrelationships with other management plans and documents:

- Community Communication Strategy (CCS) which details procedures and processes for community notification, consultation and complaints management;
- The Stage A Construction Contamination and Hazardous Materials Management Sub-plan addresses the management of contaminated land, hazardous materials, and unexpected contaminated finds;
- The Stage A Construction Biodiversity Management Sub-plan addresses the management of flora and fauna;
- The Stage A Construction Soil and Water Management Sub-plan (CSWMP) addresses the management of soil and water including erosion and sediment control and potential impacts on surface and groundwater.

1.6 Consultation

1.6.1 Consultation For This Plan

In accordance with CoA C6(e), this Plan has been prepared in consultation with:

- SES;
- Hume Zone and Riverina Zone Bushfire Management Committees;
- DCCEEW;
- Wagga Wagga City Council;
- Albury City Council;
- Greater Hume Council;
- Junee Shire Council;
- Lockhart Shite Council.

The consultation report prepared for this Plan in accordance with CoA A8 outlines what feedback was provided (if any), and how stakeholders' responses have been addressed. A summary of consultation has been provided in Table 1.

TABLE 1: CONSULTATION SUMMARY - STAGE A

Stakeholder	Dates	Feedback provided	How addressed
SES	06/11/2024 – response from SES	No feedback on the plan.	NA
Hume Zone Bushfire Management	24/10/2024 – response received from Hume Zone	 Additional controls needed during hot works. 	 Section 6.1.4 updated to include additional controls and reference the risk
Committees	and Riverina Bush	 The project should make use of the Hazards Near Me app. 	assessment/permitting process.
Riverina Zone	Fire Management Committee.	 There are no APZs referenced in the plan. 	 The project will use the Hazards Near Me app.
Management Committees		 Grasslands are BFPL and need to be accounted for in the plan. 	 A section on APZs has been added to the plan.
		 The rail corridor requires a vegetation management program created in perpetuity. 	 The BFPL areas are taken from the EIS and have been checked against the latest publicly available BFPL maps.
		 Suggestions provided for the management of hot works. 	 A vegetation management program is outside the scope of
		 The project should use the Harvest 	the project.
		Safety Alerts to trigger a review of safety systems.	 The section on hot works has been updated.
		 A flood study referenced in the EIS was not included in Section 3.1 of the plan. 	 The harvest safety alert system will be used to inform construction planning.



Stakeholder	Dates	Feedback provided	How addressed
Stakeholder	Dates	 Feedback provided Questions raised over the validity of existing environment information for bushfire and flooding. Query over the indicative construction timeframes presented in Table 7. Issues raised regarding hot works and Total Fire Ban days. The UMM H2 should be reworded. 	 How addressed The flood study has been added into Section 3.1.2. The existing environment section is taken from the EIS/PIR/RTS and will continue to be reviewed for accuracy as flood modelling is finalised. The timeframes in Table 7 are consistent with the approved project. The section on hot works and TFB days has been updated. UMM H2 can not be reworded without modifying the planning approval.
	DCCEEW for comment. 04/11/2024 – follow up attempt made seeking feedback from DCCEEW		
Wagga Wagga City Council	04/11/2024 – response received from Wagga Wagga Council	Wagga council has no comments on the plan.	NA
Albury City Council	11/10/2024 – FBFEMP issued to Council. 14/10/2024 – briefing held with Albury Council. 22/10/2024 to 12/11/2024 – 9 follow up attempts made to Council to provide comment on the Plan.	No comments received on the plan.	NA
Greater Hume Shire Council	12/11/2024 response received from Greater Hume Shite Council	Council confirmed they had no comments on the plan.	NA
Junee Shire Council	12/11/2024 – response received from Junee Council	 When does Stage B start? The consultation summary section has not been completed. Add reference to the BFMCMPs and bushfire danger periods for Junee. 	 Stage B is currently due to commence in mid-2025. The consultation section has now been updated following the completion of consultation.



Stakeholder	Dates	Feedback provided	How addressed
		 Please review flood studies for Junee. 	 References to these BFMCMPs and bushfire danger periods
		 Consideration should be included for 	have been added into the plan.
		upstream damage to land or property that results from creek impact or creek diversion.	 Impacts as result of the project will continue to be reviewed as flood modelling
		 A review of fire extinguishing controls is required. 	 The fire extinguishing controls have been reviewed and
		 Consideration to be given to sandbagging, ERSED controls, 	updated based on feedback from the consultation period.
		diversion etc as pre-flood mitigations.	 Pre-flood mitigation measures are captured in Section 6.2.2.
Lockhart Shire Council	04/11/2024 – response received from Lockhart Shire Council	Council had no comments on the FBEMP.	NA

1.6.2 Ongoing Consultation During Construction

Ongoing consultation between Martinus Rail, Inland Rail, ARTC, other construction projects, stakeholders, the community and relevant agencies regarding the management of flood and bushfire emergency risks on the environment will be undertaken during the construction of the project as required. The process for consultation is described in the CCS.

1.7 Endorsement and Approval

In accordance with CoA C3, CEMP(s) (and relevant CEMP sub-plans) not requiring the Planning Secretary's approval, but requiring ER endorsement, must be submitted to the ER no later than one (1) month before the commencement of construction or where construction is staged no later than one (1) month before the commencement of that stage. The CEMPs (and relevant CEMP sub-plans) must be endorsed by the ER as being consistent with the conditions of this approval and all undertakings made in the documents listed in CoA A1.

Construction will not commence until the relevant CEMP(s) and Sub-plans have been endorsed by the ER (as applicable and as identified in the CEMF approved under CoA C16), in accordance with CoA C15, and approved by the Planning Secretary in accordance with CoA C3 and C4.

Additionally, the CEMP and CEMP Sub-plans, as endorsed by the ER or approved by the Planning Secretary, including any minor amendments approved by the ER, must be implemented for the duration of Stage A of construction.

2 PURPOSE

2.1 Purpose

The purpose of this Plan is to describe how potential flood and bushfire emergency impacts will be managed during Stage A construction of the project.

2.2 **Objectives**

The key objective of this Plan is to ensure that impacts to the local community and environment from flood and bushfire emergency risks associated with the project are minimised. To aid in achieving this objective, this Plan incorporates the relevant flood and bushfire management measures from the following sources:

- The project EAD;
- Inland Rail Albury to Illabo Infrastructure Approval CoA (SSI-10055);
- All relevant legislation and other requirements described in Section 3.1.1 of this Plan.

2.3 Targets

Targets for the management of flood and bushfire emergency risks during the project include:

- Full compliance with the relevant legislative requirements including CoA and UMMs;
- Follow correct procedures for monitoring, preparation and evacuation of construction areas prior to a flood or bushfire event and post event;
- Ensure training is provided in the form of inductions and toolboxes to all construction personnel on flood and bushfire risks, protection measures and evacuation procedures before they begin work on site.

2.4 Performance Outcomes

Performance outcomes identified in Chapter 27 of the EIS (Approach to mitigation and management) that are relevant to the management of flood and bushfire emergency management during Stage A construction of the project are identified in Table 2.

TABLE 2: PERFORMANCE OUTCOMES (CONSTRUCTION FLOOD AND BUSHFIRE EMERGENCY)

Performance outcomes	How performance outcome will be achieved
Impacts on dedicated evacuation routes are minimised, as far as practicable, in flood events up to and including the probable maximum flood.	Implement this Plan, particularly the management measures in Section 6, which have been developed to consider the requirements in Section 3.

2.5 SMART Principles

This Plan has been developed with the consideration of SMART principles. This was achieved as follows:

- Specific: The measures listed this Plan are specific to bushfire and flood emergency management during construction. They include the development and implementation of procedures tailored to address bushfire and flood risks;
- **Measurable**: The document provides specific measures, requirements, and references that enable the evaluation and measurement of the effectiveness of each control measure;
- Achievable: The control measures outlined in the document are practical and achievable within the construction context. They involve the implementation of plans, investigations, and management strategies that can be feasibly executed during the construction phase;
- Relevant: The measures are directly relevant to flood and bushfire management during construction. They
 address potential impacts, such as those associated with works in flood or bushfire prone land. These measures
 are designed to mitigate or prevent bushfire or flood impacts;
- **Time-bound**: The document specifies when each measure should be implemented, such as prior to and during construction. It also assigns responsibilities to specific roles, indicating the timeline and accountability associated with each measure.



3 ENVIRONMENTAL REQUIREMENTS – STAGE A

3.1.1 Legislation

Legislation and regulations relevant to flood and bushfire emergency management includes:

- Environmental Planning and Assessment Act 1979 (EP&A Act);
- Protection of the Environment Operations Act 1997 (POEO Act);
- Rural Fire Act 1997;
- Fire and Rescue NSW Act 1989;
- Work Health and Safety Act 2011;
- State Emergency Service Act 1989;
- Water Act 2007 (Cth);
- Water Amendment Act 2008 (Cth);
- Water Act 1912 (NSW);
- Water Management Act 2000 (NSW).

A register of legal requirements for the project is contained in Appendix A1 of the CEMP.

3.1.2 Guidelines and Standards

The main guidelines, specifications, and policy documents relevant to this Plan include:

- Environmental Management Plan Guideline Guideline for Infrastructure Projects (DPIE, April 2020);
- Department of Infrastructure, Planning and Natural Resources Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004);
- Floodplain Development Manual: The Management of Flood Liable Land (Department of Infrastructure, Planning and Natural Resources (DIPNR), 2005);
- Australian Rainfall and Runoff: A Guide to Flood Estimation (ARR, 2019, prepared by Ball et al., 2019);
- Flood Risk Management Manual (DPE 2023);
- Floodplain Risk Management Guide—Incorporating 2016 ARR in studies (Office of Environment and Heritage (OEH), 2019a)
- Guidelines for controlled activities on waterfront land (Department of Primary Industries (DPI), 2012b);
- Guidelines for developments adjoining land and water (OEH, 2013b);
- Murray–Darling Basin Plan 2012 (including water resource plans and water quality management plans) (Murray– Darling Basin Authority, 2012) (the Basin Plan 2012);
- The flood-related planning controls contained in local planning instruments relevant to the Stage A area -
 - Albury Local Environmental Plan 2010;
 - Greater Hume Local Environmental Plan 2012;
 - Lockhart Local Environmental Plan 2012;
 - Wagga Wagga Local Environmental Plan 2010;
 - Junee Local Environmental Plan 2012.
- Relevant local flood studies and plans;
 - Albury Floodplain Risk Management Study and Plan (WMAWater, 2016);
 - Culcairn Floodplain Risk Management Study and Plan (WMAWater, 2017a);
 - Henty Floodplain Risk Management Study and Plan (WMAWater, 2017b);
 - Jeralgambeth Creek at Illabo Floodplain Risk Management Study and Plan ((Lyall & Associates, 2012);
 - The Rock Flood Study (WMAWater, 2014);
 - o NSW Murray and Lower Darling Water Quality Management Plan (NSW DPI, 2019a);
 - Murrumbidgee Water Quality Management Plan (NSW DPI, 2019b);
 - Tarcutta, Ladysmith and Uranquinty Floodplain Risk Management Studies and Plans (GRC Hydro, 2021);

- Draft Wagga Wagga Major Overland Flow Floodplain Risk Management Study and Plan (WMAWater, 2021);
- Wagga Wagga Major Overland Flow Flood Study (WMAWater, 2011);
- The Lower Butlers Gully Flood Study (Lyall & Associates, 2009);
- Bungambrawatha Creek, Lavington, South Albury and West Albury flood study (Lyall & Associates, 2011);
- Eight Mile Creek Flood Study (URS, 2012).
- Australian Disaster Resilience Handbook 7, Managing the Floodplain: A Guide to Best Practice in Flood Risk Management in Australia (Australian Institute for Disaster Resilience, 2017);
- National Water Quality Management Strategy (Australian and New Zealand Environment and Conservation Council (ANZECC), 2018);
- AS 1940-2017 The storage and handling of flammable and combustible liquids;
- AS 3959-2018 Construction of buildings in bushfire-prone areas Standards Australia, Sydney;
- Safe Work Australia, Managing risks of storing chemicals in the workplace: Guidance material;
- NSW Rural Fire Service, 2019, Planning for Bushfire Protection A guide for councils, planners, fire authorities and developers;
- Riverina Zone Bush Fire Management Committee (BFMC), 2008, Bush Fire Risk Management Plan;
- Hume Zone Bush Fire Management Committee (BFMC), Bish Fire Risk Management Plan;
- AS/NZS 3100:2018 Risk Management—Principles and Guidelines.

3.1.3 Minister's Conditions of Approval

The requirements of the CoA relevant to the development of this Plan are shown in Table 3. A cross reference is also included to indicate where the CoA is addressed in this Plan or other project management document. CoAs E39 to E46 relating to flooding are dealt with outside this plan.

TABLE 3: COA RELEVANT TO THIS PLAN

No.	Requi	rement		Where addressed
C5	CEMP approv (1) mo later th releva conditi Conditi	Section 1.7		
C6	in cons plan. E provid	the following CEMP Sub-plans must be prepared nment agencies identified for each CEMP Sub- ed by an agency during consultation must be part of any submission of the relevant CEMP Sub- dence from those agencies as required by	This Plan Section 1.6.1	
		Required CEMP Sub-plan	Relevant government agencies to be consulted for each CEMP Sub-plan	
	(g)			
C7	The C	-		
		environmental performance out ion A1 will be achieved;	comes identified in the documents listed in	Section 2.4



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No.	Requirement	Where addressed
	b) the mitigation measures identified in the documents listed in Condition A1 will be implemented;	Section 6.4
	c) the relevant terms of this approval will be complied with; and	Section 3.1.3
		Section 3.1.4
	d) issues requiring management during construction (including cumulative impacts), as	Section 2.5
	identified through ongoing environmental risk analysis, will be managed through SMART principles	Section 5
		Section 6
		Section 7
		Section 8
C14	The Flood and Bush Fire Emergency Management Sub-plan must include:	-
	a) Measures for managing flood and bush fire risks including access and egress for emergency vehicles and subsequent recovery;	Section 6
	b) consideration of flood and bush fire risks associated with construction works;	Section 5
	c) details of the management and maintenance of flood and bush fire mitigation measures including first-response capabilities, any temporary and permanent fencing and drainage structures.	Section 6.4
C15	Construction must not commence until the relevant CEMP(s) and CEMP Sub-plans have been approved by the Planning Secretary or endorsed by the ER, (as applicable and as identified in the CEMF approved under Condition C16). The CEMP and CEMP Sub-plans, as approved by the Planning Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction. Where the CSSI is being staged, construction of that stage is not to commence until the relevant CEMP and sub-plans have been endorsed by the ER and approved by the Planning Secretary or ER.	Section 1.7
E38	All practicable measures must be implemented to ensure the design, construction and operation of the CSSI will not adversely affect flood behaviour, or adversely affect the environment or cause avoidable erosion, siltation, destruction of riparian vegetation or a reduction in the stability of river banks or watercourses.	Section 5.2.2

3.1.4 Updated Management Measures

The primary UMM presented in the EAD relevant to the development of this Plan are shown in Table 4. There are no secondary UMMs relevant to this plan. A cross reference is also included to indicate where the UMM is addressed in this Plan for other project management documents.

TABLE 4: PRIMARY UMMS RELEVANT TO THIS PLAN

No.	Requirement	Where addressed
HFWQ6	Construction planning and the layout of construction work sites and compounds will be carried out with consideration of overland flow paths and flood risk, avoiding flood-liable land and flood events, where practicable.	This Plan Section 6.2.1
	For the sites located in flood-prone land, and where temporary obstruction of overland flows or drainage systems cannot be avoided, further consideration of flood risk will be carried out to develop the staging of works to minimise impacts of the proposal and	



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No.	Requirement	Where addressed
	ensure proper management of a flood event at all stages of construction. A flood and emergency response plan will be prepared for the sites located within a flood-prone area.	
H2	Adequate access and egress for fire-fighting vehicles and staff will be provided at all enhancement sites during construction.	
	Protocols for the management of bushfire risk will be implemented during construction.	Section 6.1
	Requirements for first-response capabilities, including fire extinguishers, water carts and hoses, will be assessed and provided at enhancement sites during construction, where needed.	

4 EXISTING ENVIRONMENT – STAGE A

4.1 Bushfire Prone Land

Bushfire-prone lands are identified areas that can support a bushfire or are likely to be subject to a bushfire. Bushfireprone land maps have been prepared by Rural Fire Services NSW. Table 5 shows the proximity of the Stage A enhancement sites to bushfire-prone land (NSW Rural Fire Service, 2021).

Two (2) areas associated with the project are identified in the *Hume Zone Bush Fire Risk Management Plan* (Hume Zone Bush Fire Management Committee, 2016) and the *Riverina Bush Fire Risk Management Plan* (Riverina Bush Fire Management Committee, 2015) as being subject to bushfire planning measures. Together these two management plans are referred to as BFMCMPs.

TABLE 5: PROXIMITY OF	ENHANCEMENT	SITES TO	BUSHFIRE	PRONE LAND) - STAGE A
				I NORE LARE	

Precinct	Enhancement Site	Indicative Proximity to bushfire prone land	BFMCMPs	Bush Fire Danger Period (per BFMCMPs)
	Pearson Street bridge	1.5 km	Riverina	October to March
Wagga Wagga	Cassidy Parade pedestrian bridge	800 m	Riverina	October to March
	Edmondson Street bridge	600 m	Riverina	October to March
Albury	Table Top Yard clearances 1.0 km		Riverina	October to March
	Henty Yard clearances	Within the proposal site	Hume Zone	November to March
Greater- Hume Lockhart	Yerong Creek Yard clearances	450 m	Riverina	October to March
	The Rock Yard clearances	Within the proposal site	Riverina	October to March
	Harefield Yard clearances	1.0 km	Riverina	October to March
	Junee Yard clearances	1.0 km	Riverina	October to March
Junee	Olympic Highway underbridge	1.5 km	Riverina	October to March
	Junee to Illabo clearances	2.8 km	Riverina	October to March

4.2 Flood-prone Land

Chapter 18 of the EIS (Hydrology flooding and water quality) presented a summary of the project areas which are situated on flood-prone land. The existing flood conditions for each precinct relevant for Stage A is provided in Table 6. The information within Table 6 will be reviewed and updated (where relevant) as modelling under CoA E40 is undertaken.



TABLE 6: EXISTING FLOODING CONDITIONS PER THE EAD - STAGE A

Enhancement site	Key features – Stage A	Existing flood conditions	Flood risk within and around the enhancement site for events up to the 1% AEP	PMF flood depth
Albury Precinct				
Table Top Yard clearances	Gantry removal	Not located on flood- prone land	Not affected	Not affected
Wagga Wagga Pr	ecinct		-	
Pearson Street bridge	N/A – not relevant to utilities scope	Overland flooding within the rail corridor. Peak flood depth of 0.15- 0.3 m within the rail corridor in the 1% AEP.	Not affected	Up to 0.7m in overland flooding events. Not affected by Murrumbigdee River flooding
Cassidy Parade pedestrian bridge	N/A – not relevant to utilities scope	Rail corridor within the study area categorise as 'flood storage' and 'floodway' in the 1% AEP.	5% AEP and greater events	Greater than 0.75 m in overland flooding events
Edmondson Street bridge	N/A – not relevant to utilities scope			
Greater Hume-Lo	ckhart precinct			
Henty Yard clearances	Track realignment	No flood impacts within the rail corridor	Not affected	Up to 0.75 metres
Yerong Creek Yard clearances	Track realignment	No information available	No information available	No information available
The Rock Yard clearances	Gantry modification	No flood impacts within the rail corridor	Not affected	0.5 metres to 1 metre
Junee precinct				
Harefield Yard clearances	Track realignment	No flood impacts within the rail corridor	Not affected	No information available
Junee Yard clearances	Track realignment	Not located on flood- prone land	Not affected	No information available
Olympic Highway underbridge	Track realignment	Not located on flood- prone land	Not affected	No information available



Enhancement site	Key features – Stage A	Existing flood conditions	Flood risk within and around the enhancement site for events up to the 1% AEP	PMF flood depth
Junee to Illabo clearances	Track realignment	Not located on flood- prone land	Not affected	No information available

5 ASPECTS AND IMPACTS – STAGE A

5.1 Bushfires

5.1.1 Construction Activities

During Stage A of the project, there is a risk of fire ignition. Ignition of bushfires may result from:

- Electrical sparks and sparks from vehicles;
- Hot parts of vehicles coming into contact with dry/combustible vegetation;
- Electrical faults during testing;
- Chemical fires;
- Use of diesel powered equipment;
- Sparks from activities such as hot works, vegetation slashing and use of grinders;
- Inappropriate storage of fuels and chemicals;
- Inappropriate discarding of lit cigarettes;
- Use of open flames;
- Arson.

5.1.2 Potential Impacts

A majority of the enhancement sites are located at least 250 m from the nearest bushfire-prone land, including the associated buffer zones. Only two (2) Stage A enhancement sites are partially located on bushfire-prone land and are in areas covered by Bush Fire Risk Management Plans:

- Henty Yard clearances (Hume Zone BFRMP);
- The Rock Yard clearances (Riverina BFRMP).

These sites would have an increased risk of being impacted by bushfire during construction. Bushfires can cause property damage, injury to people and animals, and loss of life.

5.2 Flooding

5.2.1 Construction Activities

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

- Cause damage to construction sites, machinery, plant and equipment;
- Detrimentally impact downstream watercourses through increased flow rates in drainage lines, changes in scour, bank erosion and transport of sediments;
- Obstruct the passage of floodwater and overland flow, which could exacerbate existing flooding conditions and pose a safety risk to the public.

Construction activities at each enhancement site for Stage A would be short term and be prepared with consideration of flooding behaviour. For enhancement sites located in flood prone land and where temporary obstruction of overland flows or drainage systems cannot be avoided, further consideration of flood risk would be undertaken to develop the staging of works to ensure proper management of a flood event at all stages of construction.

5.2.2 Potential Impacts

Flood emergencies can cause property damage, injury to people and animals, and loss of life.

Overall, the Stage A enhancement sites represent a small area of the total catchments in which they are located, and any impacts of the project on drainage and flooding would be minor to negligible. Stage A works comprise of preparation activities for the March 2025 rail possession and involve negligible permanent design works that may influence on flood behaviour. There would be limited stockpiling of materials and laydown associated with Stage A, however, the small scale nature of these activities is unlikely to influence flood behaviour. Furthermore, there are no temporary creek crossings included as part of the Stage A scope. A summary of the key results of the flood modelling undertaken in the EAD is provided for context when considering overall risks to flood emergencies in Table 7 below.



TABLE 7: POTENTIAL FLOODING IMPACTS DURING CONSTRUCTION - STAGE A

flood prone land	of construction works – Stage A	Potential impacts			
No	2 months	No impacts, as the enhancement site is not affected by flooding.			
inct					
		Construction stocknillog and materials for utility works at			
Yes	2 months	Construction stockpiles and materials for utility works at this enhancement site may be impacted in a flood event. Flood emergencies can cause property damage, injury to people and animals, and loss of life if not managed.			
Greater Hume-Lockhart precinct					
Yes	3 months	-			
No	3 months	Temporary redistribution of overland flows and stormwater due to construction infrastructure. Flood emergencies can cause property damage, injury to people and animals, and loss of life if not managed.			
Yes	2 months				
I					
No	3 months	No impacts, as the enhancement site is not affected by flooding.			
No	4 months	No impacts, as the enhancement site is not affected by flooding.			
No	5 months	No impacts, as the enhancement site is not affected by flooding.			
7 es 5 months Temporary redistribution of overland flows an stormwater due to construction infrastructure		enhancement site may be impacted in a flood event. Temporary redistribution of overland flows and stormwater due to construction infrastructure. Flood emergencies can cause property damage, injury to			
	nct Yes hart precinct Yes No Yes No No	Inct Yes 2 months Yes 2 months hart precinct Yes 3 months No 3 months Yes 2 months			

6 MANAGEMENT AND MITIGATION

6.1 Bushfire Emergency Management

The following sections addresses the relevant CoAs and UMMs and have been developed in accordance with the SW RFS *Planning for Bushfire Protection – A guide for councils, planners, fire authorities and developers* (PBP).

6.1.1 Access Arrangements

In bushfire prone areas it is an essential to provide appropriate access for emergency services in the event of an emergency as well as appropriate exit routes in the event that an evacuation is necessary. Appendix 3 of the NSW RFS 2019 *Planning for Bushfire Protection – A guide for councils, planners, fire authorities and developers* provides design principles and specifications for emergency service vehicle access. These principles and specifications will be applied during the detailed design phase and would include the following:

- Turning requirements such as minimum curve radius and sweep path width;
- Turning requirements for dead end roads to avoid multipoint turns;
- Passing bays and parking spots to avoid pinch points that impede access;
- Width of property access roads.

The above principles will be incorporated into the planning and design of any ancillary facilities situated on bush fire prone land.

6.1.2 Asset Protection Zone

An asset protection zone (APZ) provides a low fuel hazard buffer between buildings or other assets and a bushfire hazard (e.g. patches of native vegetation). APZs create a defendable space to manage the flame, radiant heat and ember exposure of the asset and emergency service personnel.

An APZ will be developed during the establishment of areas which accommodate workers, near laydown areas, and in location where frequent hot works are occurring. The APZ will remain in place until demobilisation of each area. From the commencement of the works and for every bushfire season throughout the project duration, the APZ must be established and maintained in the following manner:

- An APZ around fixed construction equipment and occupied buildings such as the site office unless an alternative fire protection approach that achieves the same level of bushfire risk management is identified by a suitably qualified bushfire specialist;
- The APZs will be regularly maintained to a maximum grass height of up to 100mm; and
- Vegetation inside the main construction compounds and accommodation camp sites will be regularly maintained to a maximum height of 75mm, where environmental approvals allow.

The respective site supervisor is responsible for the management and maintenance of the APZ for their area. This will also be supported through visual inspections undertaken by the Environment Manager or delegate.

6.1.3 Planning for works

Ongoing reviews of site conditions will guide the site team on when it is safe to conduct hot works. These reviews will be used to plan works and will be completed using a combination of the resources and tools outlined below.

Hazards Near Me

Martinus shall promote and recommend that all staff and contractors download the 'Hazards Near Me' app and establish a 'Watch Zone' account onto their mobile device during the induction program. The Hazards Near Me app will then push notifications to project personnel alerting them to fires within the area and other safety messaging such as Total Fire Ban declarations.

Harvest Safety Alerts and Grain Harvesting Guide

The NSW Rural Fire Service Harvest Safety Alert and Grain Harvesting Guide will be incorporated into work planning process. Harvest Safety Alerts provide a signal to farmers that they should be taking extra precautions during harvesting operations to prevent the ignition and spread of fire due to the prevailing weather conditions. On days when the NSW Rural Fire Service (RFS) issue a Harvest Safety Alert, farmers are encouraged to review the harvest safety guide and determine whether it is safe to continue harvesting operations, due to the elevated fire weather conditions. The issuing of Harvest Safety Alerts by the NSW RFS will be used as a trigger for the review of construction activities and safety systems.

6.1.4 Management Of Onsite Activities Including Hot Works

Martinus Rail has a number of internal management plans and procedures that govern how hot work is managed. These include the Martinus Rail Hot Work Procedure, the Martinus Rail Emergency Management Plan, and the Martinus Rail Safety Management Plan.

Hot Works

Hot works is defined as any action that involves high temperatures, which includes but is not limited to the following activities:

- Grinding;
- Welding;
- Thermal or oxygen cutting or heating.

A Hot Work Permit will be required prior to commencing hot works in accordance with the Martinus Rail Hot Works Procedure. The permit will include:

- Details of the proposed work, including date, location and work type
- Firefighting equipment to be identified based on a risk assessment which takes into account:
 - The activities to be undertaken at the site
 - The vegetation, geography and topography of the site and surrounding area,
 - The prevailing and forecast weather conditions
- Any other conditions that apply to undertaking the works.

Example controls that would be implemented during or prior to Hot Works include the following:

- Firefighting equipment (fire hose, watertrucks, fire extinguisher) or similar must be present at the location of the hot works.
 - Water trucks will be fitted with hoses and rural fire grade service nozzles.
 - Water trucks will be positioned or equipped to enable access to both sides of the rail line.
 - Water trucks will have a capacity suitable for the type of works. This is generally approximately 2000 litres and will be determined via the risk assessment mentioned above.
- The work area must be cleared of combustible materials prior to commencing the hot works activity and any nonremovable combustible materials covered or controlled to prevent ignition.
- Any personnel undertaking hot works will be provided with the appropriate level of training on how to operate fire
 extinguishing equipment in a safe and effective manner to provide a rapid response to extinguish minor fires that
 may occur.

Fire Watch Observer

Fire watching is a continuous inspection/observation of the work site and its vicinity by nominated personnel. The decision to appoint a fire watch observer is made based on the risks on the particular day. The fire watch observer will be trained in their roles and responsibilities prior to undertaking the works.

The fire watch observer should:

- Be alert for any fire outbreak or hazards. On days above the moderate Fire Danger Rating (refer Figure 1), monitoring for fire outbreaks should occur up to one (1) hour after the cessation of hot works activities;
- Take immediate action to combat any outbreak of fire that may occur;
- Not allow hot work to proceed outside the specified area; and
- Immediately review the work if a hazardous condition is observed.

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Total Fire Ban – There is total fire ban in place

Figure 1: Fire danger ratings (Source: NSW Rural Fire Service)

6.1.5 Total Fire Ban Days

For high fire risk activities (e.g. welding, grinding or any activity likely to cause sparks) ARTC procedure **ETM-13-01** - **Total Fire Bans** outlines a comprehensive process detailing restrictions to activities during the Fire Danger Period and on Total Fire Ban days, including, but not limited to, required liaison with the local Fire Authority.

This procedure describes the actions required by Australian Rail Track Corporation (ARTC) employees, and contractors, to facilitate hot works during Total Fire Bans (TFB).

The arrangements within this procedure facilitate the capability for IRPL/Martinus to perform hot work in a TFB and include:

- State specific legislation for the issuing of exemptions and work permits for hot works in a TFB which is managed by the relevant state fire authorities in each state jurisdiction.
- ARTC acquisition of general exemptions or permits covering TFB hot work activities through the annual fire danger period (as declared by each state) or date and work specific permits to cover hot work activities on declared TFB days.
- A standard ARTC form *ETM1301F-01 Total Fire Ban Hot Works Checklist* for the recording of exemption or permit details, compliance to fire prevention and control requirements, and satisfactory completion of work.

In NSW each time a TFB is declared under Section 99 of the Rural Fires Act 1997 it must be published in the Government Gazette. Each notification in the Gazette includes a number of standing exemptions in the form of schedules.

Schedule 6 is the exemption for Construction and Essential Repairs or Maintenance of Services and Utilities.

In addition, Martinus shall also deploy its own procedures to support construction activities using MR-WP-023 - Hot work and MR-WF-030 – Hot Work Permit for all other project related scopes that may occur outside the rail corridor envelope or project boundary.

6.1.6 Management Of Flammable Chemicals

The inappropriate storage of incompatible or flammable chemicals has the potential to cause a chemical fire or explosion. Storage and maintenance of flammable material will be in accordance with the safety data sheet given by the manufacturers or importers and generally in accordance with AS 1940-2017. Hazards and risk will be identified through a risk assessment form and where hazards are identified, the risk shall be reduced as far as practicable by through the preferred order of control methods (hierarchy of controls).

All chemicals, fuels or other hazardous substances will be stored in accordance with the supplier's instructions, any relevant legislations or Australian Standards or the applicable guidelines.

6.1.7 Fire-Fighting Supplies and Equipment

The fire-fighting equipment, including fire extinguishers, water carts and hoses, will be provided on site and in vehicles to ensure the safety of public and property in compliance with the *Rural Fires Act 1997* and the *Local Government Act 1993*. Plant and equipment used regularly on site will be checked. The relevant site supervisory personnel will have the appropriate level of training on how to operate fire extinguishing equipment in a safe and effective manner.

6.2 Flood Emergency Management

The design of the proposal has been developed in accordance with existing hydrological conditions in order to avoid flooding, drainage and water quality impacts. Mitigation measures discussed in the sections below will be implemented to mitigate the potential residual flood impacts of the enhancement works.

6.2.1 Construction Planning

Construction planning and the layout of construction work sites and ancillary facilities will be carried out with consideration of overland flow paths and flood risk, avoiding flood-liable land and flood events, where practicable.

For the sites located in flood-prone land, and where temporary obstruction of overland flows or drainage systems cannot be avoided, further consideration of flood risk will be carried out to develop the staging of works to minimise impacts of the proposal and ensure proper management of a flood event at all stages of construction.

6.2.2 Pre-Flood Actions

The following actions will be undertaken as preventative measures to prepare for flooding on site:

- Daily monitoring of weather forecasts and flood alerts, using the BoM (http://www.bom.gov.au/australia/warnings/). A "Flood Watch" is typically issued several days before rainfall events which may cause flooding at the site (Flooding Rain);
- Training in flood preventative measures and emergency response will be provided to key personnel including the Martinus Rail Construction Manager and Foreman / Site Supervisor(s);
- Activities that may affect existing drainage systems during construction will be planned and carried out so that existing hydraulic capacity of these systems is maintained where practicable. These activities will include:
 - Temporary waterway crossings and instream work platforms;
 - Bridge Construction;
 - Culvert construction;
 - Earthworks within flood prone land.
- Temporary stockpiles will be limited in size (where ever practical) and managed in accordance with the CSWMP;
- Prior to establishing any plant or equipment on site an assessment of it's ability to be relocated prior to a flood event is to be considered and where relocation is not feasible prepare appropriate mitigations (e.g. secure to prevent floating and creating a hazard, remove fuel to prevent contamination of waterways, etc);
- Ancillary facilities will be designed to include evacuation routes for flood events;
- Ancillary facility layouts will include nominated storage areas outside the 5 per cent AEP and include a nominated evacuation area;
- Ensure that sufficient area is provided outside the 5 per cent AEP for the temporary storage of mobile plant and equipment, waste containers, chemicals and dangerous goods;
- Pre-flooding Rain inspections which include the following tasks:
 - o Minimise obstructions within flood prone areas, including stockpiles;
 - o Relocate waste containers, chemicals and dangerous goods above flood prone areas;
 - Relocate mobile plant and equipment to an area outside the expected flood extent;
 - Inspect/repair erosion and sediment controls in accordance with the CSWMP.

6.2.3 Flood Emergency Response

Flood response operations will begin on receipt of BoM advice, or when other evidence leads to an expectation of flooding. The key principles of emergency flood response, according to the NSW State Flood Plan (December 2021) include the following:

 Protection and preservation of human life (including the lives of responders and the community) is the highest priority;

• Evacuation is the primary response strategy for people impacted by flooding.

In the event a flood warning is issued, it will be communicated to the workforce to stop what they are doing and follow the Emergency Management Plan and Emergency Response Guide (see Section 6.3.1).

The BoM will issue Flood Warnings for the relevant catchment areas through their website. BoM also issue Severe Thunderstorm Warnings and Severe Weather Warnings for weather which may cause flooding in the catchment.

The State Emergency Services (SES) is the designated Agency for floods and is responsible for coordinating the evacuation and welfare of affected communities (SES Act 1989; EMPLAN, 2018). In response to a flood event, SES will operate 24 hours a day, seven (7) days a week an "Operations Centre" to manage the Emergency Assistance telephone number (132 500) and co-ordinate their activities. The SES provides public information management strategies and provides information to the community relating to the potential impacts of flooding and what actions need to be undertaken. The SES issue Local Flood Bulletins, Evacuation Warnings, Evacuation Orders and All Clears for areas impacted by floods in the catchment and share these on the SES website. This website will also be monitored by the project following flood warnings.

Local radio stations and other media outlets also provide information updates and advice.

The Martinus Rail Environment, Approvals and Sustainability Manager (MR ESM) in conjunction with the Martinus Rail Safety Manager, Construction Manager and Inland Rail/ARTC will regularly consult these resources to maintain awareness of any flood threats that may arise.

During a flood event, the following will be undertaken:

- Continue to monitor the BoM website / app for warnings, ABC radio broadcasts, local emergency services social media pages, and local news outlets;
- Follow all advice and instructions given by emergency services and maintain open communication with the SES;
- Ensure all occupants on-site are informed of the incident response procedures (i.e. evacuation routes, assembly areas);
- Where practical, existing Variable Messaging Signs (VMS) on the project will be made available to Inland Rail/ARTC, as well as the Emergency services, and updated to notify of temporary traffic arrangements to minimise impact on flood evacuation routes and traffic capacity;
- Implementation of the project Emergency Management Plan and Emergency Response Guide (see Section 6.3.1).

6.2.4 Post-Flood Emergency Response

Following a flood emergency that has impacted on the project, the initial response will be to determine whether or not it is safe to return to work. A safety walk through of the construction work areas will be conducted by the Martinus Rail Construction Manager and Supervisors (or delegates), in conjunction with the MR ESM and Martinus Rail Safety Manger. These parties will assess whether it is safe to return to work.

6.3 Emergency Management

6.3.1 Emergency Management Plan and Response Guides

The project has prepared an Emergency Management Plan (EMP) which defines the emergency preparedness principles, processes, procedures, systems, tools, and templates implemented for use throughout the duration of the project. This plan covers bushfire and flood emergency preparedness and management. The objectives of the EMP are to:

- Outline processes and procedures for personnel to follow in the event of an emergency, including site, and/or home office emergencies;
- Identify types of emergencies that may require assistance;
- Outline roles and responsibilities of key personnel in the event of an emergency;
- Identify emergency communication protocols and phone numbers;
- Identify evacuation processes;
- Outline traffic management requirements in the event of an emergency;
- Outline training and evacuation response exercises.

As part of the EMP process, Martinus Rail will be responsible for conducting a comprehensive risk assessment to identify potential hazards that may lead to emergencies requiring evacuation or rescue. Detailed procedures for each of these potential emergencies will be outlined in aspect specific Emergency Response Guides (ERG), including bushfire and

flood. The development and implementation of these ERGs will reduce the effect of bushfires and floods on personnel, property, and the environment.

6.3.2 Remediation And Recovery

Recovery encompasses those activities that are intended to restore normality as soon as possible, following the impact of a bushfire or flood emergency.

Recovery issues following a major emergency can be complex and the recovery process usually of long duration. These may include:

- The return of facilities to a safe condition;
- The removal of unfit damaged facilities or equipment;
- Providing for the physical and psychological effects on people involved in the emergency;
- Addressing the impacts of the emergency on the environment;
- Investigating the reasons for the occurrence of the emergency to prevent a recurrence;
- Safe resumption of normal operations;
- Evaluation of costs relating to emergency response resources; and
- Assessing and responding to the long-term effects on the community and industry.

6.4 Mitigation Measures

A range of environmental requirements and management measures are identified in the EAD and CoA. Specific measures and requirements to address impacts to bushfire and flooding are outlined in Table 8. The following mitigation measures have been developed with consideration of SMART (specific, measurable, achievable, relevant and time-based) principles.

TABLE 8: MITIGATION MEASURES

ID	Management measure	When to implement	Responsibility for implementation	Reference or source	Evidence of implementation
Bushfire	emergency				
CBF-1	Training will be provided to all project personnel, including relevant sub-contractors on bushfire prevention and management measures and the requirements from this plan through inductions, toolboxes and targeted training.	Pre-construction Construction	MR Environment and Sustainability Manager MR Health and Safety/Site Manager MR Head of Competency MR Regional Area Manager MR General Superintendent	Best practice	Induction records Toolbox talk records
CBF-2	Martinus shall promote and recommend that all staff and contractors download the Hazards Near Me application and establish a 'Watch Zone' account onto their personnel device during the induction program.	Induction stage	MR Head of Competency	MR Induction Program	Induction records
CBF-3	Adequate access and egress for fire-fighting vehicles and staff will be provided at all enhancement sites during construction.	Pre-construction	MR Snr Project Manager MR Delivery Manager MR Regional Area Manager MR General Superintendent	UMM H2	Vehicle Movement Plan
CBF-4	Protocols for the management of bushfire risk will be implemented during construction in accordance with Planning for Bushfire Protection (RFS, 2019)	Construction	MR Environment and Sustainability Manager MR Health and Safety/Site Manager MR Regional Area Manager	UMM H2	Audit reports



ID	Management measure	When to implement	Responsibility for implementation	Reference or source	Evidence of implementation
			MR General Superintendent		
			MR Senior Project Engineer		
			MR Environment and Sustainability Manager		
			MR Health and Safety Manager		
	Requirements for first-response capabilities, including fire extinguishers, water carts and hoses will be assessed and provided at enhancement sites during construction, where needed.	Pre-construction	MR Snr Project Manager		
CBF-5			MR Delivery Manager	UMM H2	Inspection records
			MR Regional Area Manager		Audit reports
			MR General Superintendent		
			MR Senior Project Engineer		
			MR Site Supervisor		
			MR Environment and Sustainability Manager		
CBF-6	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	Construction	MR Health and Safety/Site Manager		Inspection records
			MR Regional Area Manager	UMM H3	Audit reports
	impervious bunds.		MR General Superintendent		



ID	Management measure	When to implement	Responsibility for implementation	Reference or source	Evidence of implementation
			MR Senior Project Engineer		
			MR Site Supervisor		
			MR Environment and Sustainability Manager		
			MR Health and Safety/Site Manager		Hot Work Permits
CBF-7	Prior to hot work commencing, a Hot Work Permit will be prepared and implemented. Emergency provisions shall be determined in order to minimise the effect of potential incidents.	Pre-construction Construction	MR Regional Area Manager	Best practice	
			MR General Superintendent		
			MR Senior Project Engineer		
			MR Site Supervisor		
			MR Snr Project Manager		
		Pre-construction Construction	MR Delivery Manager		Audit reports
			MR Regional Area Manager		
CBF-8	Emergency response and management will be undertaken in accordance with the project Emergency		MR General Superintendent	Best practice	
	Management Plan.		MR Environment and Sustainability Manager		
			MR Health and Safety/Site Manager		
			MR Site Supervisor		



ID	Management measure	When to implement	Responsibility for implementation	Reference or source	Evidence of implementation				
Flood emergency									
CFE-1	Training will be provided to all project personnel, including relevant sub-contractors on flood prevention and management measures and the requirements from this plan through inductions, toolboxes and targeted training.	Pre-construction	MR Head of Competency MR Regional Area Manager MR General Superintendent MR Site Supervisor	Best practice	Induction records Toolbox talk records				
CFE-2	Construction planning and the layout of construction work sites and compounds will be carried out with consideration of overland flow paths and flood risk, avoiding flood-liable land and flood events, where practicable. For the sites located in flood-prone land, and where temporary obstruction of overland flows or drainage systems cannot be avoided, further consideration of flood risk will be carried out to develop the staging of works to minimise impacts of the proposal and ensure proper management of a flood event at all stages of construction.	Pre-construction Construction	MR Delivery Manager MR Regional Area Manager MR General Superintendent MR Environment and Sustainability Manager MR Health and Safety/Site Manager MR Site Supervisor	UMM HFWQ6	Construction planning documents				
CFE-3	A flood and emergency response plan will be prepared for the sites located within a flood-prone area.	Pre-construction	MR Delivery Manager MR Regional Area Manager MR General Superintendent MR Environment and Sustainability Manager	UMM HFWQ6	This Plan				



ID	Management measure	When to implement	Responsibility for implementation	Reference or source	Evidence of implementation
			MR Health and Safety/Site Manager MR Site Supervisor		
CFE-4	Emergency response and management will be undertaken in accordance with the project Emergency Management Plan.	Pre-construction Construction	MR Snr Project Manager MR Delivery Manager MR Regional Area Manager MR General Superintendent MR Environment and Sustainability Manager	CoA C14	Audit reports
			MR Health and Safety/Site Manager MR Site Supervisor		

7 TRAINING

7.1 Roles and Responsibilities

The project's organisational structure and overall roles and environmental responsibilities are outlined in Section 6.1 of the CEMP. Specific responsibilities for the implementation of emergency response and management requirements are detailed in Section 7 of the project EMP.

7.2 Training

7.2.1 Inductions

All personnel who carry out works in areas identified in this Plan as bushfire or flood prone land, including employees and sub-contractors, will undergo site induction training relating to bushfire and flooding emergency management issues.

The induction training will address site and/or construction activity specific impacts relating to bushfire and flooding emergency management including:

- The requirements of this Plan;
- Relevant legislation and guidelines;
- The relevant management and mitigation measures;
- Emergency response and evacuation (bushfire and flooding).

Further details regarding staff induction and training are outlined in Section 6.2 of the CEMP.

7.2.2 Daily Pre-Start Meetings

Daily pre-start meetings conducted by the Martinus Rail Area Manager, Site Supervisor (or other delegate) will inform the site workforce of any environmental issues relevant to bush fire or flooding risks that may be impacted by, or impact on, the day's activities.

Further details regarding staff induction and training are outlined in Section 6.2 of the CEMP.

7.3 Inspections and Monitoring

The Safety Manager (or delegate) will conduct regular inspections of activities and controls with the potential to impact flood and bushfire management for the duration of the project works.

Requirements and responsibilities in relation to monitoring and inspections are documented in Section 7.1 and 7.2 of the CEMP.

7.3.1 Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of bushfire and flood emergency management measures, compliance with this Plan, CoA and other relevant approvals, licenses, and guidelines. Audit requirements are detailed in Section 9.1 and 9.2 of the CEMP.

7.3.2 Reporting and Identified Records

General reporting requirements and responsibilities for the project's works are documented in Section 10.2 of the CEMP.

8 REVIEW AND IMPROVEMENT

8.1 Continuous Improvement

Continuous improvement of this Plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

Issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed through SMART principles.

The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance;
- Identify environmental risks not already included in the risk register;
- Determine the cause or causes of non-conformances and deficiencies;
- Develop and implement a plan of corrective and preventative action to address any non-conformances and deficiencies;
- Verify the effectiveness of the corrective and preventative actions;
- Document any changes in procedures resulting from process improvement;
- Make comparisons with objectives and targets.

The MR ESM will be responsible for ensuring project environmental risks are identified and included in the risk register and appropriate mitigation measures implemented throughout the construction of the project as part of the continuous improvement process. The process for ongoing risk identification and management during construction is outlined in the CEMP.

8.2 Update and Amendment

The processes described in the CEMP may result in the need to update or revise this Plan.

Any revisions to this Plan will be in accordance with the process outlined in the CEMP.

A copy of the updated Plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure.





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