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YERONG CREEK – CONSTRUCTION NOISE AND VIBRATION IMPACT STATEMENT ADDENDUM 2

A2I | Albury to Illabo

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YERONG CREEK – CONSTRUCTION NOISE AND VIBRATION IMPACT STATEMENT ADDENDUM 2

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GLOSSARY

Specific terms and acronyms used throughout this plan are listed and described in Table 1 below.

TABLE 1: DEFINITIONS

TERM	DEFINITION
A2I	Albury to Illabo section of the Inland Rail project
CA	Consistency Assessment
CNVIS	Construction Noise and Vibration Impact Statement
CNVIS Addendum	This document
EWP	Elevated work platform
km	Kilometres
m	Metres
NML	Noise Management Level
OOH	Out-of-hours
Project	Albury to Illabo project approved under section 5.19 of the EP&A Act on 8 October 2024, as modified on 13 August 2025
RBL	Rating Background Level
SLR Predict	A2I noise and vibration management tool
T	Tonnes
W.001	Work Scenario 1 – Site establishment activities
W.006	Work Scenario 6 – Track tamping
Yerong Creek CNVIS	Yerong Creek Yard Clearances Construction Noise and Vibration Impact Statement (Doc No. 6-0052-210-EEC-G3-AS-0001)

1 INTRODUCTION

1.1 Purpose of this Addendum

This Construction Noise and Vibration Impact Statement Addendum (CNVIS Addendum) has been prepared to identify and assess the revised work areas and amended plant and equipment required to support and enable the wider scope of activities associated with the Yerong Creek Yard clearances enhancement site (Yerong Creek), as shown in Figures 1 and 2 below.

This Addendum will form part of the endorsed Construction Noise and Vibration Impact Statement (CNVIS) (Doc No: 6-0052-210-EEC-G3-AS-0001) for Yerong Creek. This Addendum should be reviewed in conjunction with the CNVIS for Yerong Creek, including adopted Rating Background Levels (RBL), Noise Management Levels (NML) and assessment criteria in accordance with the Conditions of Approval (CoA) (SSI-10055).

The following figures identify the scenarios assessed in this CNVIS Addendum:

Figure 1:

- W.009 – revised work area and inclusion of additional equipment for level crossing works activities. The assessed area includes the area assessed in the endorsed CNVIS.

Figure 2:

- W.005 – revised work area and amended equipment for track works activities. The assessed area includes the area assessed in the endorsed CNVIS.

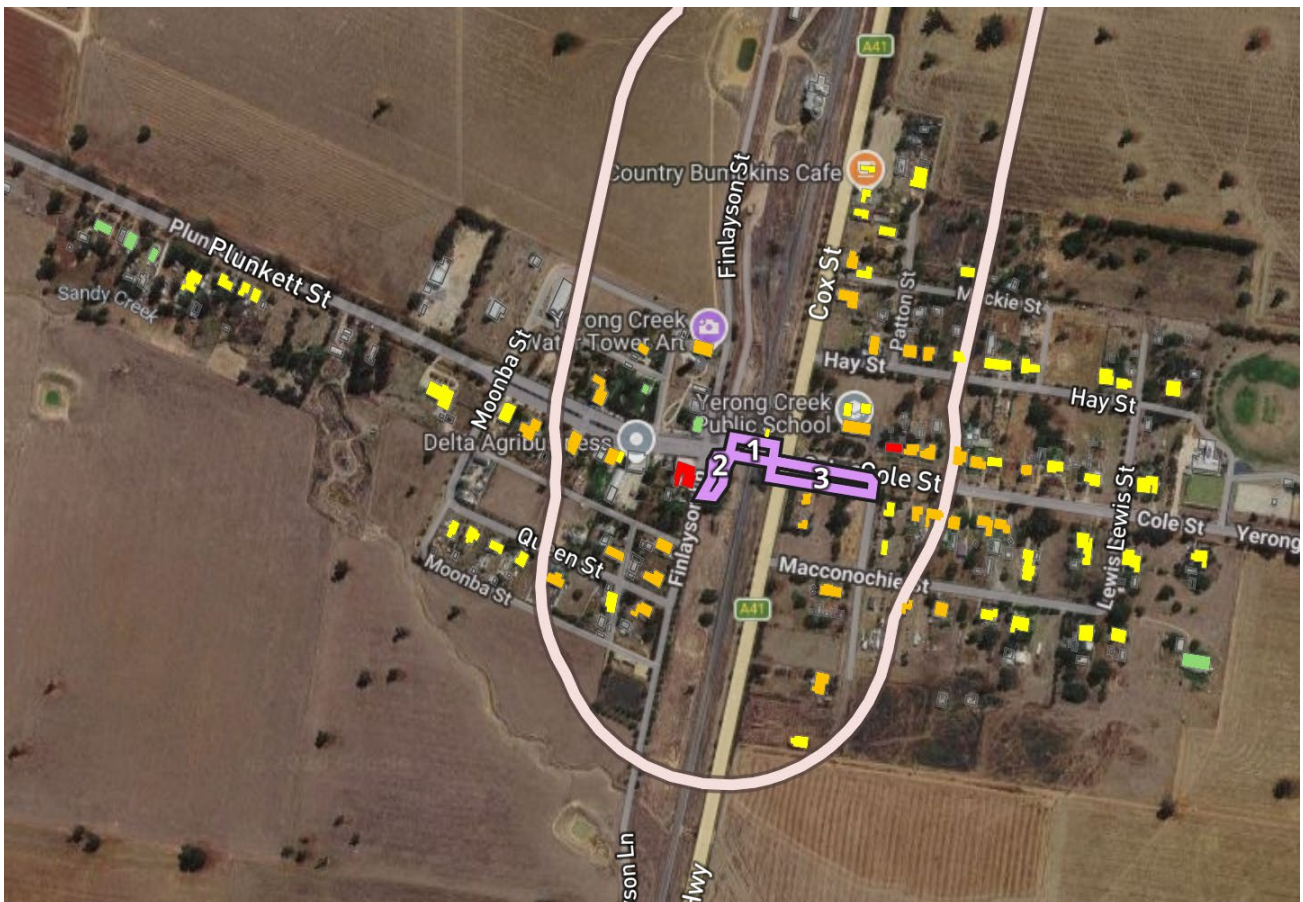


FIGURE 1: REVISED WORK AREA FOR W.009 (YERONG CREEK CNVIS ADDENDUM 2)

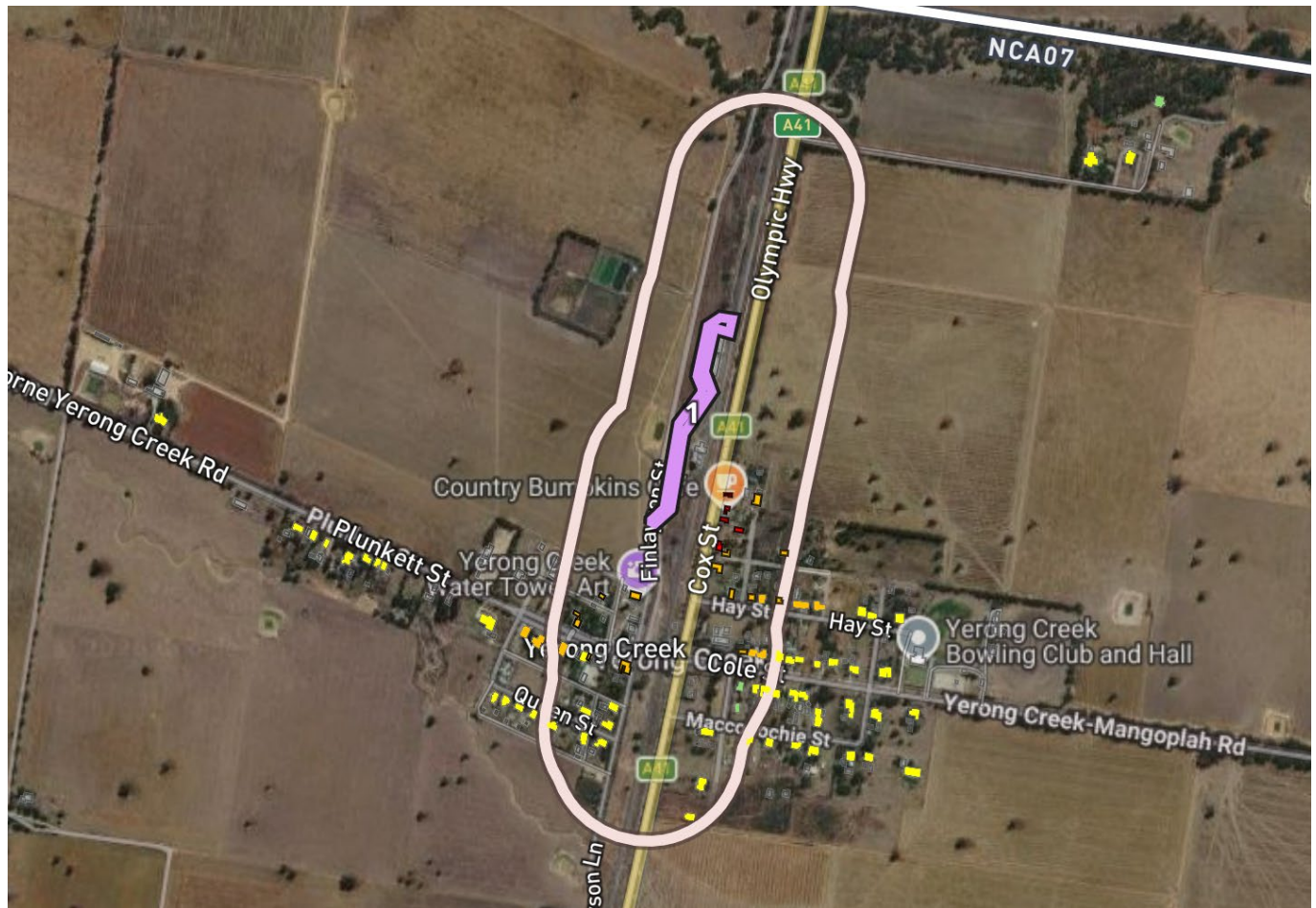


FIGURE 2: REVISED WORK AREA FOR W.005 (YERONG CREEK CNVIS ADDENDUM 2)

2 NOISE ASSESSMENT

The potential construction noise levels from the proposed works have been predicted using SLR Predict, the A2I project-specific noise and vibration tool. This CNVIS Addendum assesses the work scenarios identified in Table 2.

TABLE 2: WORK SCENARIO DESCRIPTION

ID	Scenario	Description	Total Lw
W.009	Level Crossing Work - Peak	Relocation of existing watermain to outside of the level crossing works footprint	120.5
W.005	Track Work - Typical	Access to / from the rail alignment by heavy and light vehicles, and road mobile plant	112

2.1 Level Crossing Work - Peak (W.009)

2.1.1 Scope

The additional work area required at Yerong Creek forms part of the wider scope of work associated with the Yerong Creek Yard clearances enhancement site (Yerong Creek) and will form a key part of the level crossing works, via the relocation of an existing watermain to outside of the level crossing works footprint.

This CNVIS addendum has assessed an additional work area and additional plant/equipment identified in Yerong Creek Supporting Works (565.350) Consistency Assessment (CA) (Doc No: 6-0052-210-EAP-G3-AS-0001), as well as the area originally assessed in the endorsed CNVIS.

The revised work area and additional plant/equipment (Tracked Hydraulic Drilling Rig, Truck - Vacuum (NDD) and Hydrema / Moxy) will be assessed using SLR Predict, the A2I noise and vibration management tool, with the following noted (as per the endorsed CNVIS):

Activity

- Level crossing work including highly noise intensive work

Plant and equipment

- Asphalt Paving Machine
- Crane (mobile)
- Excavator - Tracked (20 tonne)
- Front End Loader
- Hand tools (electric)
- Light Vehicle
- Lighting Tower
- Pavement Profiler
- Roller – Static
- Roller – Vibratory
- Saw – Concrete
- Telescopic Handler
- Truck - Medium Rigid (20 tonne)
- Truck - Truck & Dog
- Tracked Hydraulic Drilling Rig
- Truck - Vacuum (NDD)
- Hydrema / Moxy

Construction hours

- Standard approved construction hours:
 - 7am to 6pm Monday to Friday, inclusive
 - 7am to 6pm Saturday.
- Daytime out-of-hours (OOH):
 - 8am to 6pm Sunday and Public Holidays.

2.1.2 Assessment

The revised work area has been assessed utilising SLR Predict. The full plant and equipment list (as per the endorsed CNVIS) has been considered as a worst-case scenario within a 15-minute assessment period. The operating time (utilisation %) of each plant and equipment has remained the same as per the endorsed CNVIS.

2.1.3 Results

The SLR Predict results are presented in Appendix A, for daytime out of hours, as the most affected period, noting there is no Evening or Night OOHW proposed.

Table 3 provides a summary of the exceedances identified through various assessments. It compares the following:

- W.009 exceedances identified in the Yerong Creek CNVIS
- W.009 exceedances identified in the SLR Predict results for the revised work area shown in Figure 1, including the plant and equipment identified in Section 2.1.1.

TABLE 3: EXCEEDANCE COMPARISONS FOR W.009 (DAY OOH)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE	
	CNVIS – W.009	SLR Predict – W.009 (revised work area and reduced plant/equipment list)
Total Lw (dBA)	119	120.5
Noticeable (1-5 dB)	7	4
Clearly Audible (6-15 dB)	40	38
Moderately Intrusive (16-25 dB)	27	30
Highly Intrusive (>25 dB)	0	2

Table 3 shows an increase in the total Sound Power Level (Lw) and intensity of impacts resulting from the current proposed scenario (last column) for the Clearly Audible, Moderately Intrusive and Highly Intrusive noise categories. This increase in impacts is likely due to the increased size of the work area, closer proximity to receivers for the additional areas, and as a result of the additional plant and equipment being utilised in these revised areas (Tracked Hydraulic Drilling Rig, Truck - Vacuum (NDD) and Hydrema / Moxy).

2.2 Track Work – Typical (W.005)

2.2.1 Scope

The additional work area required at Yerong Creek forms part of the wider scope of work associated with the Yerong Creek Yard clearances enhancement site (Yerong Creek) and will form a key part of the track works scope, via the ability for heavy and light vehicles, and road mobile plant involved in the activity to access the rail alignment from Finlayson Street.

This CNVIS addendum has assessed an additional work area and reduced plant/equipment identified in Yerong Creek Supporting Works (565.350) Consistency Assessment (CA) (Doc No: 6-0052-210-EAP-G3-AS-0001), as well as the area originally assessed in the endorsed CNVIS.

The revised work area and reduced plant/equipment (comprising only heavy and light vehicles, and road mobile plant) will be assessed using SLR Predict, the A2I noise and vibration management tool, with the following noted (as per the endorsed CNVIS):

Activity

- Track work excluding highly noise intensive work

Plant and equipment

- Centrifugal fan
- Compressor
- Crane (mobile)
- Elevated Work Platform
- Front End Loader
- Generator
- Hand tools (electric)
- Hi-Rail Crane
- Hi-Rail Excavator
- Hi-Rail Truck/Trolley

- Light Vehicle
- PEM-LEM
- Plate Compactor
- Telescopic Handler
- Truck - Medium Rigid (20 tonne)
- Truck - Truck & Dog
- Watercart

Construction hours

- Standard approved construction hours:
 - 7am to 6pm Monday to Friday, inclusive
 - 7am to 6pm Saturday.
- Daytime out-of-hours (OOH):
 - 8am to 6pm Sunday and Public Holidays.
- Evening OOH:
 - 6pm to 10pm Monday to Sunday (including Public Holidays)
- Night OOH:
 - 10pm to 7am Monday to Saturday
 - 10pm to 8am Sunday (including Public Holidays)

2.2.2 Assessment

The revised work area has been assessed utilising SLR Predict. The full plant and equipment list (as per the endorsed CNVIS) has been considered as a worst-case scenario within a 15-minute assessment period. The operating time (utilisation %) of each plant and equipment has remained the same as per the endorsed CNVIS.

2.2.3 Results

The SLR Predict results are presented in Appendix A, for night out of hours, as the most affected period.

Table 4 provides a summary of the exceedances identified through various assessments. It compares the following:

- W.005 exceedances identified in the Yerong Creek CNVIS
- W.005 exceedances identified in the SLR Predict results for the revised work area shown in Figure 2, including the reduced plant and equipment identified in Section 2.2.1.

TABLE 4: EXCEEDANCE COMPARISONS FOR W.005 (NIGHT OOH)

ASSESSMENT RESULTS	NUMBER OF RESIDENTIAL RECEIVERS WITH NML EXCEEDANCE	
	CNVIS – W.005	SLR Predict – W.005 (revised work area and reduced plant/equipment list)
Total Lw (dBA)	119	112
Noticeable (1-5 dB)	4	13
Clearly Audible (6-15 dB)	15	51
Moderately Intrusive (16-25 dB)	41	14
Highly Intrusive (>25 dB)	19	0
Above sleep disturbance	67	18
Above sleep awake	29	0

Table 4 shows a decrease in the total Sound Power Level (Lw) and corresponding intensity of impacts resulting from the current proposed scenario (last column) for the Moderately Intrusive and Highly Intrusive noise categories. In addition, there is a marked reduction in receivers who may be sleep disturbed and beyond the sleep awakening criterion. This decrease in impacts is almost certainly due to the additional work area being further away from the cluster of receivers east of the rail corridor, and as a result of the reduced number of noise generating equipment which is limited to heavy and light vehicles, and road mobile plant.

3 VIBRATION ASSESSMENT

3.1 Level Crossing Work - Peak (W.009)

A summary of predicted vibration impacts attributable to the W.009 activity is provided in Tables 5 and 6 below. The full SLR Predict results for vibration are presented under Appendix C.

TABLE 5: VIBRATION INTENSIVE PLANT MINIMUM WORKING DISTANCES FOR W.009

STRUCTURE TYPE	EQUIPMENT TYPE & APPROX. SIZE / WEIGHT	NUMBER OF STRUCTURES IDENTIFIED IN COSMETIC DAMAGE ZONE
	Vibratory Roller 13-18 tonne, 300kN (TfNSW CNVG (PTI) & DIN 4150: Part 3)	SLR Predict – W.009
Residential and Light Commercial)	20m	1 property
Unsound Heritage	40m	0 properties
Industrial and Heavy Commercial	10m	0 properties

Table 5 shows one structure (signal hut (refer Appendix C)) which has been identified as within the minimum working distance for the vibratory roller proposed for the activity and thus being at risk of cosmetic damage. The structure (non-heritage) identified in this CNVIS Addendum was also identified in the endorsed CNVIS as having the potential to fall within the cosmetic damage minimum working distance for light-framed structures. As noted in the endorsed CNVIS, prior to commencement of any work, a structural engineer must undertake condition surveys of all buildings, structures, utilities and the like identified as being at risk of damage.

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

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

TABLE 6: HUMAN COMFORT VIBRATION CRITERIA EXCEEDANCES FOR W.009

VIBRATION CRITERIA	EQUIPMENT TYPE & APPROX. SIZE / WEIGHT	NUMBER OF RECEIVERS WITH VIBRATION CRITERIA EXCEEDANCE ¹
	Vibratory Roller 13-18 tonne, 300kN (TfNSW CNVG (PTI) & DIN 4150: Part 3)	SLR Predict – W.009
Human Comfort (Residential)	100m	1 property
Human Comfort (Non-Residential)	100m	13 properties

Note 1: Some addresses have both residential and non-residential uses and therefore have been accounted for in each vibration criteria category triggered.

Table 6 shows one residential receiver and thirteen non-residential receivers with potential to exceed the vibration criteria for human comfort as a result of the vibratory roller proposed for the activity. The structures identified in this CNVIS Addendum for potential exceedance of the human comfort criteria were also identified in the endorsed CNVIS.

3.2 Track Work – Typical (W.005)

There are no vibration intensive plant proposed as part of the reduced scope W.005 within the additional work area; therefore, no vibration impacts are expected.

4 CONCLUSION

4.1 Mitigation and Management Measures

As this an addendum to the endorsed CNVIS for Yerong Creek, the same mitigation and management measures apply as noted in Section 8 of the CNVIS.

4.2 Additional mitigation measures

As noted in Figure 3 to Figure 5, and under Appendices A to C, the SLR Predict noise and vibration results include a section on all applicable additional mitigation measures. These additional mitigation measures will be implemented where appropriate.

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

FIGURE 3: ADDITIONAL MITIGATION MEASURES MATRIX – NOISE

Vibration - Additional Mitigation Measures Matrix			
Time Period	Duration	Exceedance of 'preferred' value	Exceedance of 'maximum' value
OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

FIGURE 4: ADDITIONAL MITIGATION MEASURES MATRIX - VIBRATION

Additional Mitigation Measures			
Measure		Abbreviation	
Communication (Category 1) ¹		CO1	
Communication (Category 2) ²		CO2	
Respite Offer ³		RO	
Alternative Accommodation		AltA	
Agreement with Owners		AO	
Note 1: CO1: 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: CO2: 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: 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.			
Receiver Types			
Code	Description	Code	Description
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building

FIGURE 5: ADDITIONAL MITIGATION MEASURES MATRIX – NOTES



APPENDICES



APPENDIX A

SLR Predict (W.009) Noise



Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

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 in the overarching CNVIS for each enhancement site.

Predicted Noise Levels

The assessment presents the highest predicted level at each receiver building, considering predictions at each floor and façade from all potential work areas. The assessment is generally considered conservative as the calculations assume several items of construction equipment are in use at the same time within each work area. 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.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Yerong Creek CNVIS Addendum 2 (W.009)
Assessment Number	544
Stage	A2I Construction
Permit Number	N/A
Start Date	2026-08-24
End Date	2026-09-25
Assessment Period	Day - out of hours

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: (Height: Ground)	Total: 119		
Asphalt paver 100% operation	108	1	No
Crane (mobile) 30% operation	104	1	No
Excavator - Tracked (20T) 50% operation	105	1	No
Hand tools (electric) 75% operation	102	2	No
Light Vehicle (steady state) 25% operation	87	2	No
Lighting Tower 100% operation	80	2	No
Pavement Profiler 50% operation	117	1	No
Roller - static 100% operation	107	1	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.

Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

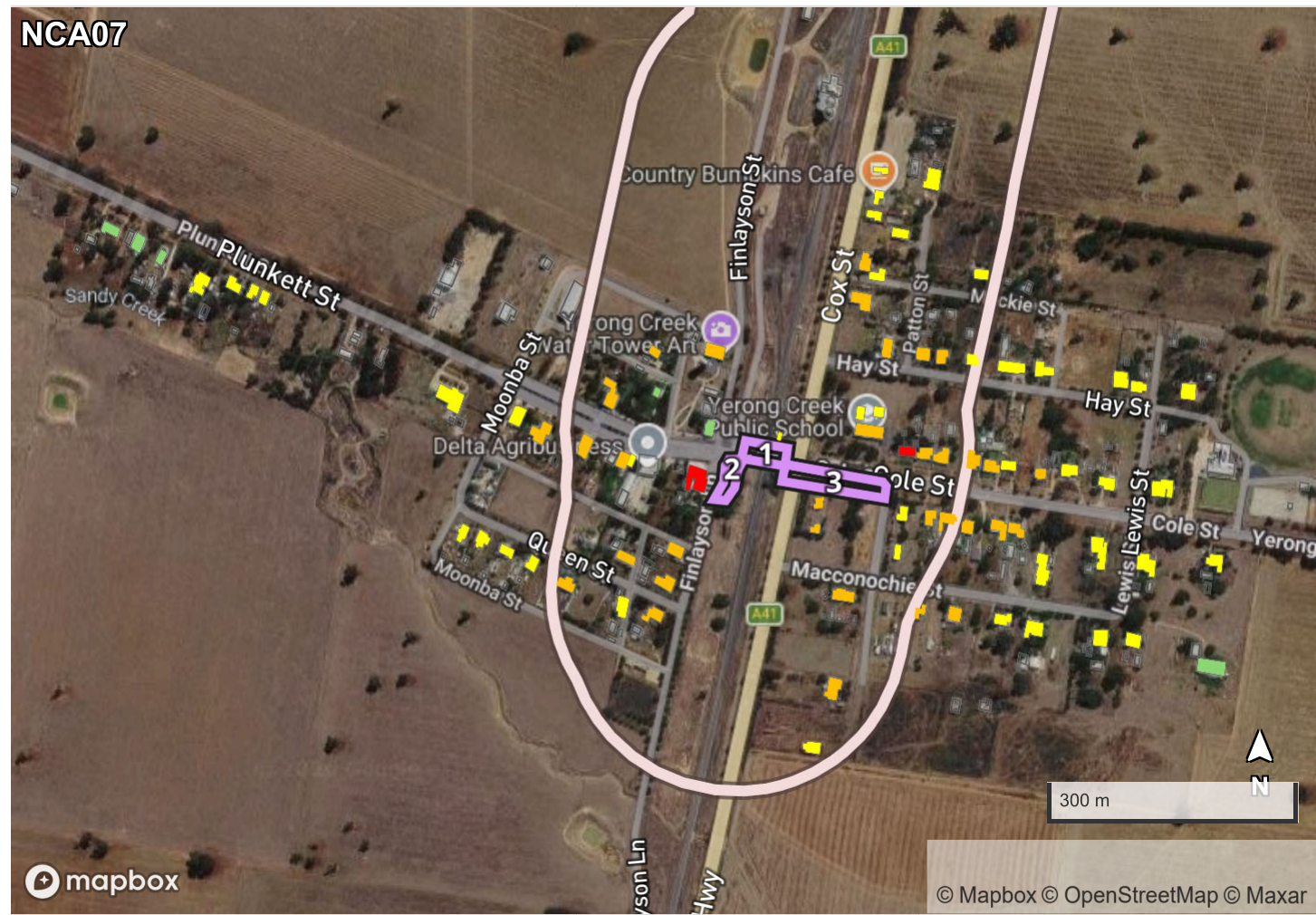
Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
Roller - vibratory (13-18t) 100% operation	109	1	No
Saw - concrete 25% operation	118	1	No
Telescopic Handler 50% operation	99	1	No
Truck - medium rigid (20T) 25% operation	103	2	No
Truck - road truck/ truck & dog (30T) 25% operation	108	1	No
Front End Loader 50% operation	113	1	No
2: (Height: Ground)	Total: 112		
Excavator - Tracked (20T) 50% operation	105	1	No
Light Vehicle (steady state) 60% operation	87	3	No
Truck - medium rigid (20T) 50% operation	103	2	No
Tracked Hydraulic Drilling Rig 80% operation	109	1	No
Truck - vacuum (NDD or non-destructive digger) 40% operation	109	1	No
Hydrema / Moxy 50% operation	107	1	No
3: (Height: Ground)	Total: 112		
Excavator - Tracked (20T) 50% operation	105	1	No
Light Vehicle (steady state) 60% operation	87	3	No
Truck - medium rigid (20T) 50% operation	103	2	No
Tracked Hydraulic Drilling Rig 80% operation	109	1	No
Truck - vacuum (NDD or non-destructive digger) 40% operation	109	1	No
Hydrema / Moxy 50% operation	107	1	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.

Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results



		Residential	Non-Residential
	Highly Intrusive	2 properties	0 property
	Moderately Intrusive	30 properties	3 properties
	Clearly Audible	38 properties	5 properties
	Noticeable	4 properties	2 properties

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Facade/Floor: Show, Minimum floor to show: 0

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
1-3 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	78	34	Highly Intrusive
3 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	70	26	Highly Intrusive
10 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	44	68	24	Moderately Intrusive
5 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	68	24	Moderately Intrusive
2 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	44	68	24	Moderately Intrusive
6 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	67	23	Moderately Intrusive
LOT 2, COX STREET, YERONG CREEK NSW 2642	OPW	NCA07	55	78	23	Moderately Intrusive
7 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	67	23	Moderately Intrusive
2 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	66	22	Moderately Intrusive
13-15 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	66	22	Moderately Intrusive
10 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	66	22	Moderately Intrusive
15 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	66	22	Moderately Intrusive
14 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	44	65	21	Moderately Intrusive
10 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	65	21	Moderately Intrusive
19 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	65	21	Moderately Intrusive
8 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	64	20	Moderately Intrusive
11 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	64	20	Moderately Intrusive
5 WARATAH ST, YERONG CREEK NSW 2642	RES	NCA07	44	64	20	Moderately Intrusive
2-4 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	44	64	20	Moderately Intrusive
16 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	44	63	19	Moderately Intrusive
LOT 2, COX STREET, YERONG CREEK NSW 2642	OPW	NCA07	55	74	19	Moderately Intrusive
10 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	63	19	Moderately Intrusive
15 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	63	19	Moderately Intrusive
21 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	63	19	Moderately Intrusive
1 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	63	19	Moderately Intrusive
12-14 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	62	18	Moderately Intrusive
14 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	62	18	Moderately Intrusive
3 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	62	18	Moderately Intrusive
12 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	61	17	Moderately Intrusive
23 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	61	17	Moderately Intrusive
11 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	61	17	Moderately Intrusive
18 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	60	16	Moderately Intrusive
19 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	60	16	Moderately Intrusive
YERONG CREEK PUBLIC SCHOOL 1 COLE ST, YERONG CREEK NSW 2642	OED	NCA07	55	71	16	Moderately Intrusive
13 Queen St, Yerong Creek NSW 2642	RES	NCA07	44	60	16	Moderately Intrusive

Results by Receiver

Facade/Floor: Show, Minimum floor to show: 0

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
18 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	59	15	Clearly Audible
15 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	44	59	15	Clearly Audible
25 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	59	15	Clearly Audible
27-39 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	59	15	Clearly Audible
28 Cox St, Yerong Creek NSW 2642	RES	NCA07	44	59	15	Clearly Audible
25 Plunkett St, Yerong Creek NSW 2642	RES	NCA07	44	59	15	Clearly Audible
YERONG CREEK PUBLIC SCHOOL 1 COLE ST, YERONG CREEK NSW 2642	OED	NCA07	55	70	15	Clearly Audible
1-3 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	44	58	14	Clearly Audible
11 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	58	14	Clearly Audible
LOT 5557 ORANGE FLAT LANE, YERONG CREEK NSW 2642	IND	NCA07	75	89	14	Clearly Audible
5-9 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	58	14	Clearly Audible
5 MACKIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	58	14	Clearly Audible
5 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	58	14	Clearly Audible
20 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	57	13	Clearly Audible
17 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	44	57	13	Clearly Audible
26 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	57	13	Clearly Audible
2 COLE ST, YERONG CREEK NSW 2642	OHO	NCA07	60	73	13	Clearly Audible
13 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	57	13	Clearly Audible
5 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	57	13	Clearly Audible
3 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	57	13	Clearly Audible
Lot 1, Plan 1/414639, Yerong Creek, NSW 2642	RES	NCA07	44	57	13	Clearly Audible
28 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	56	12	Clearly Audible
26 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	56	12	Clearly Audible
15-23 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	56	12	Clearly Audible
13 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	56	12	Clearly Audible
7 COX ST, YERONG CREEK NSW 2642	RES	NCA07	44	56	12	Clearly Audible
20 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	55	11	Clearly Audible
21 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	44	55	11	Clearly Audible
29 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	55	11	Clearly Audible
23 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	55	11	Clearly Audible
YERONG CREEK PUBLIC SCHOOL 1 COLE ST, YERONG CREEK NSW 2642	OED	NCA07	55	66	11	Clearly Audible
15 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	54	10	Clearly Audible
1 PATTON ST, YERONG CREEK NSW 2642	RES	NCA07	44	54	10	Clearly Audible
23 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	44	53	9	Clearly Audible
15 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	53	9	Clearly Audible

Results by Receiver

Facade/Floor: Show, Minimum floor to show: 0

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
51 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	53	9	Clearly Audible
32 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	44	52	8	Clearly Audible
30 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	44	52	8	Clearly Audible
17 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	44	52	8	Clearly Audible
LOT 2 MACCONOCHIE ST, YERONG CREEK NSW 2642	OHO	NCA07	60	67	7	Clearly Audible
51 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	51	7	Clearly Audible
53 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	51	7	Clearly Audible
67 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	50	6	Clearly Audible
2 PLUNKETT ST, YERONG CREEK NSW 2642	COM	NCA07	70	75	5	Noticeable
6 PLUNKETT ST, YERONG CREEK NSW 2642	OOP	NCA07	60	65	5	Noticeable
63 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	49	5	Noticeable
LOT 1,34 MACCONOCHIE STREET, YERONG CREEK NSW 2642 -	RES	NCA07	44	49	5	Noticeable
65 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	48	4	Noticeable
83-85 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	44	47	3	Noticeable

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

Airborne Noise - Additional Mitigation Measures Matrix

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

Vibration - Additional Mitigation Measures Matrix

Time Period	Duration	Exceedance of 'preferred' value	Exceedance of 'maximum' value
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OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures

Measure	Abbreviation
Communication (Category 1) ¹	CO1
Communication (Category 2) ²	CO2
Respite Offer ³	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: 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: CO2: 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: 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.

Receiver Types

Code	Description	Code	Description
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building



APPENDIX B

SLR Predict (W.005) Noise



Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

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 in the overarching CNVIS for each enhancement site.

Predicted Noise Levels

The assessment presents the highest predicted level at each receiver building, considering predictions at each floor and façade from all potential work areas. The assessment is generally considered conservative as the calculations assume several items of construction equipment are in use at the same time within each work area. 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.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Yerong Creek CNVIS Addendum 2 (W.005)
Assessment Number	551
Stage	A2I Construction
Permit Number	
Start Date	2026-08-24
End Date	2027-03-31
Assessment Period	Night - out of hours

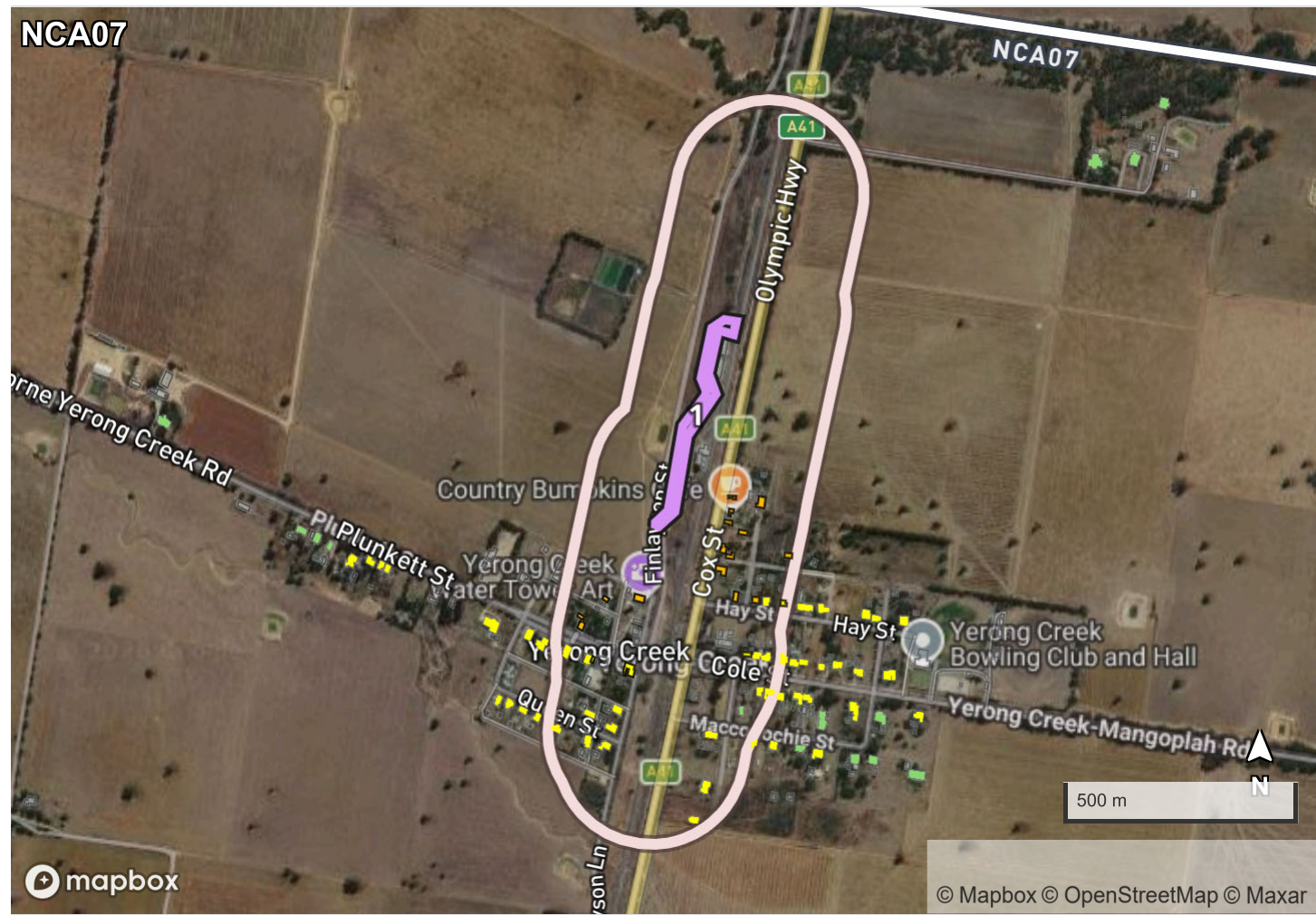
Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: (Height: Ground)	Total: 112		
Crane (mobile) 30% operation	104	1	No
Front End Loader 50% operation	113	1	No
Truck - medium rigid (20T) 25% operation	103	2	No
Truck - road truck/ truck & dog (30T) 25% operation	108	1	No
Water Cart 75% operation	105	1	No
Light Vehicle (accelerating) 25% operation	95	2	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.

Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results



		Residential	Non-Residential
	Highly Intrusive	0 property	0 property
	Moderately Intrusive	14 properties	0 property
	Clearly Audible	51 properties	0 property
	Noticeable	13 properties	1 property
	Above Sleep Disturbance	18 properties	0 property
	Above Sleep Awake	0 property	0 property

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Facade/Floor: Show, Minimum floor to show: 0

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
5 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	60	25	Moderately Intrusive Above Sleep Dist
Lot 1, Plan 1/414639, Yerong Creek, NSW 2642	RES	NCA07	35	60	25	Moderately Intrusive Above Sleep Dist
3 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	59	24	Moderately Intrusive Above Sleep Dist
11 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	58	23	Moderately Intrusive Above Sleep Dist
19 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	57	22	Moderately Intrusive Above Sleep Dist
7 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	57	22	Moderately Intrusive Above Sleep Dist
13 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	56	21	Moderately Intrusive Above Sleep Dist
2 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	35	55	20	Moderately Intrusive Above Sleep Dist
1 PATTON ST, YERONG CREEK NSW 2642	RES	NCA07	35	55	20	Moderately Intrusive Above Sleep Dist
5 WARATAH ST, YERONG CREEK NSW 2642	RES	NCA07	35	53	18	Moderately Intrusive Above Sleep Dist
15 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	53	18	Moderately Intrusive Above Sleep Dist
10 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	52	17	Moderately Intrusive Above Sleep Dist
1 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	51	16	Moderately Intrusive Above Sleep Dist
5 MACKIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	51	16	Moderately Intrusive Above Sleep Dist
1-3 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	50	15	Clearly Audible Above Sleep Dist
5-9 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	50	15	Clearly Audible Above Sleep Dist
11 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	49	14	Clearly Audible Above Sleep Dist
3 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	49	14	Clearly Audible Above Sleep Dist
7 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	48	13	Clearly Audible
5 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	48	13	Clearly Audible
23 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	48	13	Clearly Audible
5 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	48	13	Clearly Audible
3 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	48	13	Clearly Audible
11 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	47	12	Clearly Audible
21 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	47	12	Clearly Audible
27-39 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	47	12	Clearly Audible
15-23 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	47	12	Clearly Audible
25 Plunkett St, Yerong Creek NSW 2642	RES	NCA07	35	47	12	Clearly Audible
15 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	35	46	11	Clearly Audible
13-15 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	46	11	Clearly Audible
13 Queen St, Yerong Creek NSW 2642	RES	NCA07	35	46	11	Clearly Audible
2 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	45	10	Clearly Audible
14 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	45	10	Clearly Audible
19 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	45	10	Clearly Audible
15 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	45	10	Clearly Audible

Results by Receiver

Facade/Floor: Show, Minimum floor to show: 0

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
12-14 COX ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
8 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
6 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
23 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
17 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
15 HAY ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
2-4 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	35	44	9	Clearly Audible
23 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
18 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
10 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
10 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
25 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
15 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
53 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	43	8	Clearly Audible
1-3 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
17 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
10 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
21 QUEEN ST, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
13 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
51 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
51 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	42	7	Clearly Audible
20 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
16 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
12 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
14 FINLAYSON LANE, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
26 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
26 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
29 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
67 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	41	6	Clearly Audible
28 Cox St, Yerong Creek NSW 2642	RES	NCA07	35	41	6	Clearly Audible
18 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	40	5	Noticeable
20 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	40	5	Noticeable
30 COLE ST, YERONG CREEK NSW 2642	RES	NCA07	35	40	5	Noticeable
63 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	40	5	Noticeable
65 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	40	5	Noticeable

Results by Receiver

Facade/Floor: Show, Minimum floor to show: 0

Address	Land Use	Noise Catchment Area	Construction Noise Management Level, dBA	Predicted Noise Level, dBA	Predicted Noise Level Above Noise Management Level, dB	Noise Category
3308 OLYMPIC HWY, YERONG CREEK NSW 2642	RES	NCA07	35	40	5	Noticeable
28 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	39	4	Noticeable
83-85 PLUNKETT ST, YERONG CREEK NSW 2642	RES	NCA07	35	39	4	Noticeable
32 MACCONOCHIE ST, YERONG CREEK NSW 2642	RES	NCA07	35	38	3	Noticeable
WINDANA 3455 OSBORNE YERONG CREEK RD, YERONG CREEK NSW 2642	RES	NCA07	35	37	2	Noticeable
3308 OLYMPIC HWY, YERONG CREEK NSW 2642	RES	NCA07	35	37	2	Noticeable
LOT 1,34 MACCONOCHIE STREET, YERONG CREEK NSW 2642 -	RES	NCA07	35	37	2	Noticeable
LOT 2 MACCONOCHIE ST, YERONG CREEK NSW 2642	OHO	NCA07	45	46	1	Noticeable
3308 OLYMPIC HWY, YERONG CREEK NSW 2642	RES	NCA07	35	36	1	Noticeable

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

Airborne Noise - Additional Mitigation Measures Matrix

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

Vibration - Additional Mitigation Measures Matrix

Time Period	Duration	Exceedance of 'preferred' value	Exceedance of 'maximum' value
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OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures

Measure	Abbreviation
Communication (Category 1) ¹	CO1
Communication (Category 2) ²	CO2
Respite Offer ³	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: 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: CO2: 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: 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.

Receiver Types

Code	Description	Code	Description
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building



APPENDIX C

SLR Predict (W.009) Vibration



Construction Noise and Vibration Impact Statement (CNVIS)

This report presents the outcomes of detailed noise/vibration modelling relating to specific construction activities proposed on site in accordance with the methodology outlined in the *Construction Noise and Vibration Management Plan* (CNVMP) and overarching *Construction Noise and Vibration Impact Statement* (CNVIS).

Prior to detailed noise/vibration modelling being undertaken, work activities are reviewed and considered in relation to industry best practice, consistent with the requirements of the CNVMP. Consideration is first given to eliminating the noise/vibration emissions so far as reasonably practicable. Where elimination is not practicable, efforts are been made to reduce the risk as far as practical by implementing noise and vibration management measures as outlined in the overarching CNVIS and CNVMP.

Examples of these measures include selecting the quietest equipment and processes to complete the works, considering staging and periods of respite to minimise prolonged periods of noise and vibration exposure, and maximising distances between construction activities and sensitive receivers.

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 in the overarching CNVIS for each enhancement site.

Predicted Noise Levels

The assessment presents the highest predicted level at each receiver building, considering predictions at each floor and façade from all potential work areas. The assessment is generally considered conservative as the calculations assume several items of construction equipment are in use at the same time within each work area. 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.

Assessment Details

Author Name	
Author Email	noiseassessments@martinus.com.au
Author Organisation	Martinus Rail
Project Name	A2I - Albury to Illabo
Assessment Name	Yerong Creek CNVIS Addendum 2 (W.009)
Assessment Number	544
Stage	A2I Construction
Permit Number	N/A
Start Date	2026-08-24
End Date	2026-09-25
Assessment Period	Vibration

Equipment Details

Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
1: (Height: Ground)	Total: 119		
Asphalt paver 100% operation	108	1	No
Crane (mobile) 30% operation	104	1	No
Excavator - Tracked (20T) 50% operation	105	1	No
Hand tools (electric) 75% operation	102	2	No
Light Vehicle (steady state) 25% operation	87	2	No
Lighting Tower 100% operation	80	2	No
Pavement Profiler 50% operation	117	1	No
Roller - static 100% operation	107	1	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.

Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Equipment Details			
Plant/Equipment	Equipment Sound Power Level (Unadjusted), dBA	Number of Units	Temporary Noise Barrier
Roller - vibratory (13-18t) 100% operation	109	1	No
Saw - concrete 25% operation	118	1	No
Telescopic Handler 50% operation	99	1	No
Truck - medium rigid (20T) 25% operation	103	2	No
Truck - road truck/ truck & dog (30T) 25% operation	108	1	No
Front End Loader 50% operation	113	1	No
2: (Height: Ground)	Total: 112		
Excavator - Tracked (20T) 50% operation	105	1	No
Light Vehicle (steady state) 60% operation	87	3	No
Truck - medium rigid (20T) 50% operation	103	2	No
Tracked Hydraulic Drilling Rig 80% operation	109	1	No
Truck - vacuum (NDD or non-destructive digger) 40% operation	109	1	No
Hydrema / Moxy 50% operation	107	1	No
3: (Height: Ground)	Total: 112		
Excavator - Tracked (20T) 50% operation	105	1	No
Light Vehicle (steady state) 60% operation	87	3	No
Truck - medium rigid (20T) 50% operation	103	2	No
Tracked Hydraulic Drilling Rig 80% operation	109	1	No
Truck - vacuum (NDD or non-destructive digger) 40% operation	109	1	No
Hydrema / Moxy 50% operation	107	1	No

Note 1: Equipment classed as 'annoying' in the *Interim Construction Noise Guideline (DECC, 2009)* include a 5 dB correction.

Note 2: Equipment sound power levels consider the mitigation measures outlined in the overarching CNVIS to provide mitigated results.

Assessment Results



		Residential	Non-Residential
	Cosmetic Damage	0 property	1 property
	Human Comfort	1 property	13 properties
	Cosmetic Damage for Unsound Heritage	0 property	0 property

Legend

	Project Boundary
	Work Areas
	Barriers

Results by Receiver

Address	Land Use	Vibration Category
LOT 2, COX STREET, YERONG CREEK NSW 2642	OPW	Human Comfort

Results by Receiver

Address	Land Use	Vibration Category
LOT 2, COX STREET, YERONG CREEK NSW 2642	OPW	Human Comfort
1-3 PLUNKETT ST, YERONG CREEK NSW 2642	GAR	Human Comfort
1-3 PLUNKETT ST, YERONG CREEK NSW 2642	RES	Human Comfort
1-3 PLUNKETT ST, YERONG CREEK NSW 2642	GAR	Human Comfort
5-9 PLUNKETT ST, YERONG CREEK NSW 2642	COM	Human Comfort
LOT 5557 ORANGE FLAT LANE, YERONG CREEK NSW 2642	IND	Cosmetic Damage Human Comfort
2 PLUNKETT ST, YERONG CREEK NSW 2642	COM	Human Comfort
YERONG CREEK PUBLIC SCHOOL 1 COLE ST, YERONG CREEK NSW 2642	OED	Human Comfort
-	GAR	Human Comfort
LOT 5557 ORANGE FLAT LANE, YERONG CREEK NSW 2642	IND	Human Comfort
4 PLUNKETT ST, YERONG CREEK NSW 2642	GAR	Human Comfort
4 FINLAYSON LANE, YERONG CREEK NSW 2642	IND	Human Comfort
YERONG CREEK PUBLIC SCHOOL 1 COLE ST, YERONG CREEK NSW 2642	OED	Human Comfort

Recommended Mitigation Measures

This assessment has been conducted with regard to the relevant CNVIS and CNVMP. To manage noise and vibration impacts, project specific mitigation measures may be considered such as reviewing construction staging methodology to identify opportunities to schedule intensive works during less sensitive time periods and by providing a clear process for community engagement and complaints. Likewise, the requirements and actionable items within the overarching CNVIS and CNVMP should be considered and adopted where appropriate. Following the consideration of project specific noise mitigation measures, additional noise mitigation measures to be explored are described in the Inland Rail NSW Construction Noise and Vibration Framework (CNVF) and summarised below.

Airborne Noise - Additional Mitigation Measures Matrix

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

Vibration - Additional Mitigation Measures Matrix

Time Period	Duration	Exceedance of 'preferred' value	Exceedance of 'maximum' value
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OOHW Daytime Period Sunday 8am-6pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Evening Period Mon-Sun 6pm-10pm	Any	CO1, CO2	CO1, CO2, RO
OOHW Night Period Mon-Sat 10pm-7am Sun 10pm-8am	Any	CO1, CO2, RO	CO1, CO2, RO, AltA

Additional Mitigation Measures

Measure	Abbreviation
Communication (Category 1) ¹	CO1
Communication (Category 2) ²	CO2
Respite Offer ³	RO
Alternative Accommodation	AltA
Agreement with Owners	AO

Note 1: CO1: 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: CO2: 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: 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.

Receiver Types

Code	Description	Code	Description
RES	Residential	OED	Other Educational
COM	Commercial	OHO	Other Hotel
IND	Industrial	OLI	Other Library
OOA	Other Outdoor Active Recreation	OME	Other Medical
OOP	Other Outdoor Passive Recreation	OPW	Other Place of Worship
OCC	Other Child Care	OPB	Other Public Building