

TECHNICAL REPORT

INLAND
RAIL 

8

Noise and vibration assessment – construction and other operations

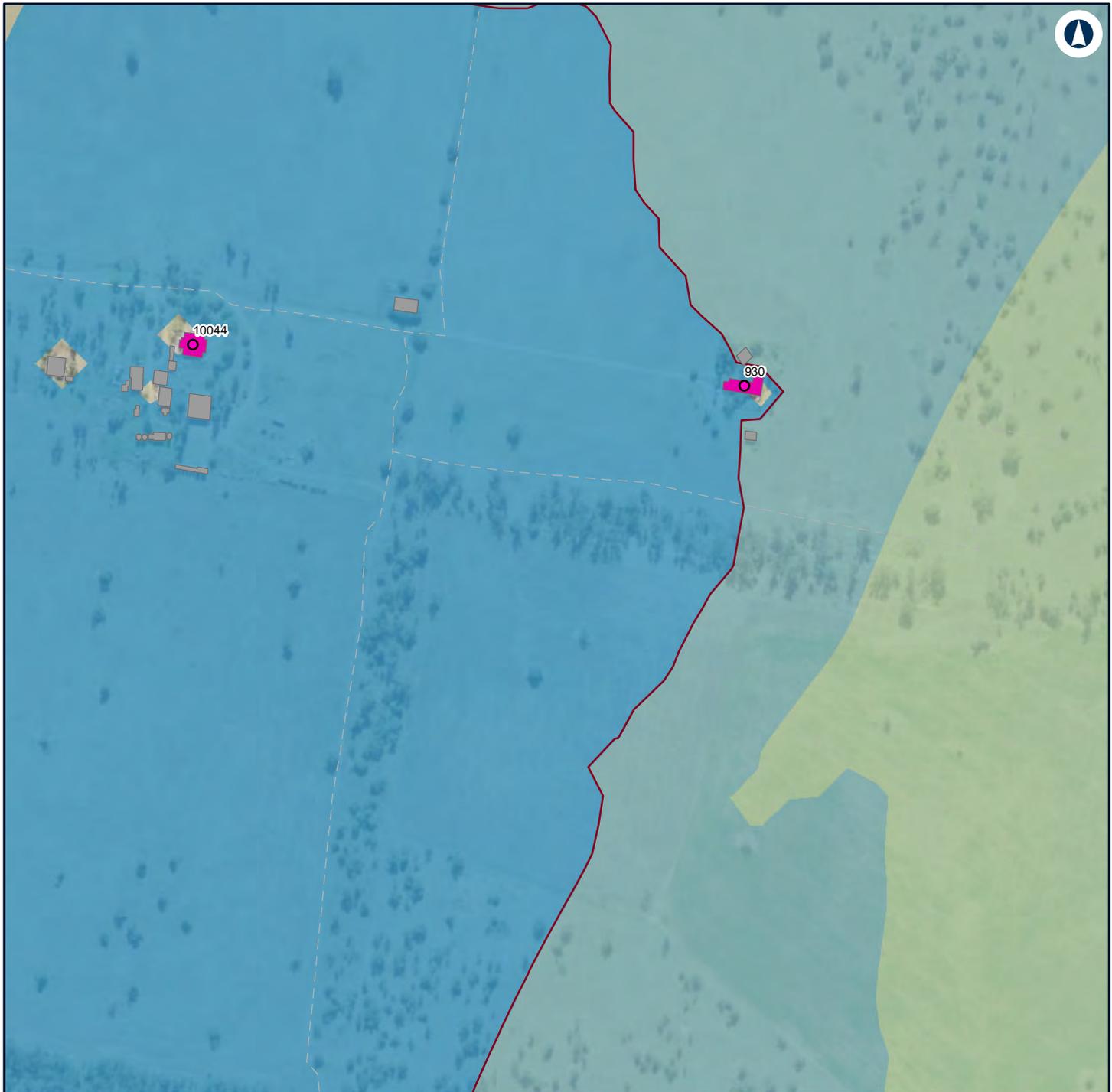
PART 3 OF 7

Appendix F continued... to Appendix G

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT

**ARTC**

The Australian Government is delivering
Inland Rail through the Australian
Rail Track Corporation (ARTC), in
partnership with the private sector.



LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

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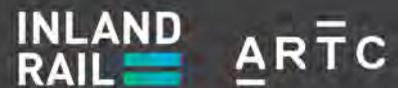
Date: 16/07/2020

Paper: A4

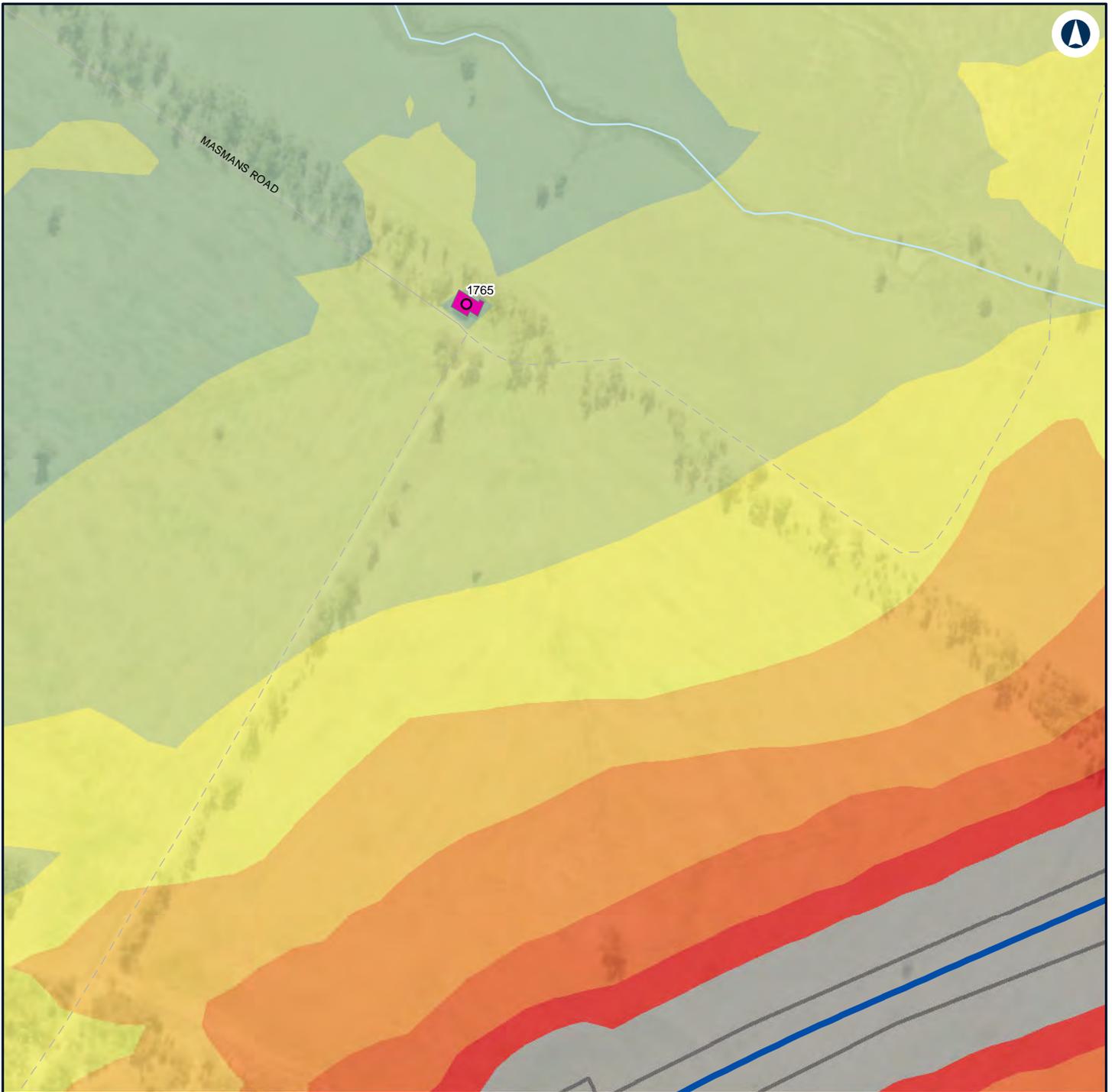
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Construction footprint	45 - 50
Structure type	50 - 55
Residential	55 - 60
Residential	60 - 65
Alignment	65 - 70
Noise level (dBA L_{Aeq} 15 minute)	70 - 75
40 - 45	> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

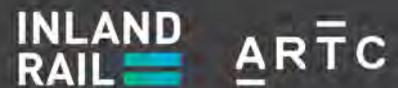
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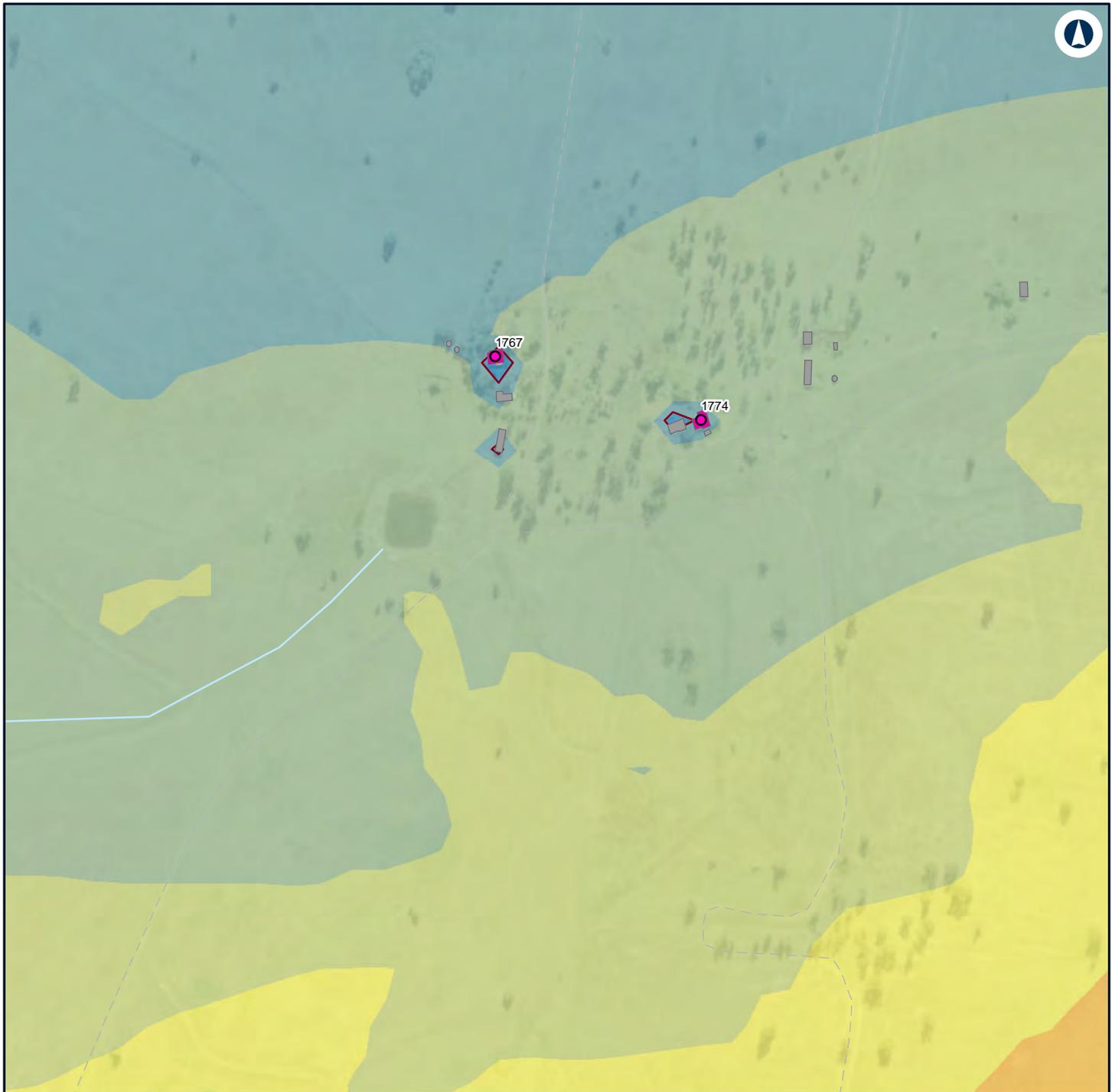
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LEGEND

Structure type		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		50 - 55
— Night-time noise management level		55 - 60
Noise level (dBA L_{Aeq} 15 minute)		
■	30 - 35	



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

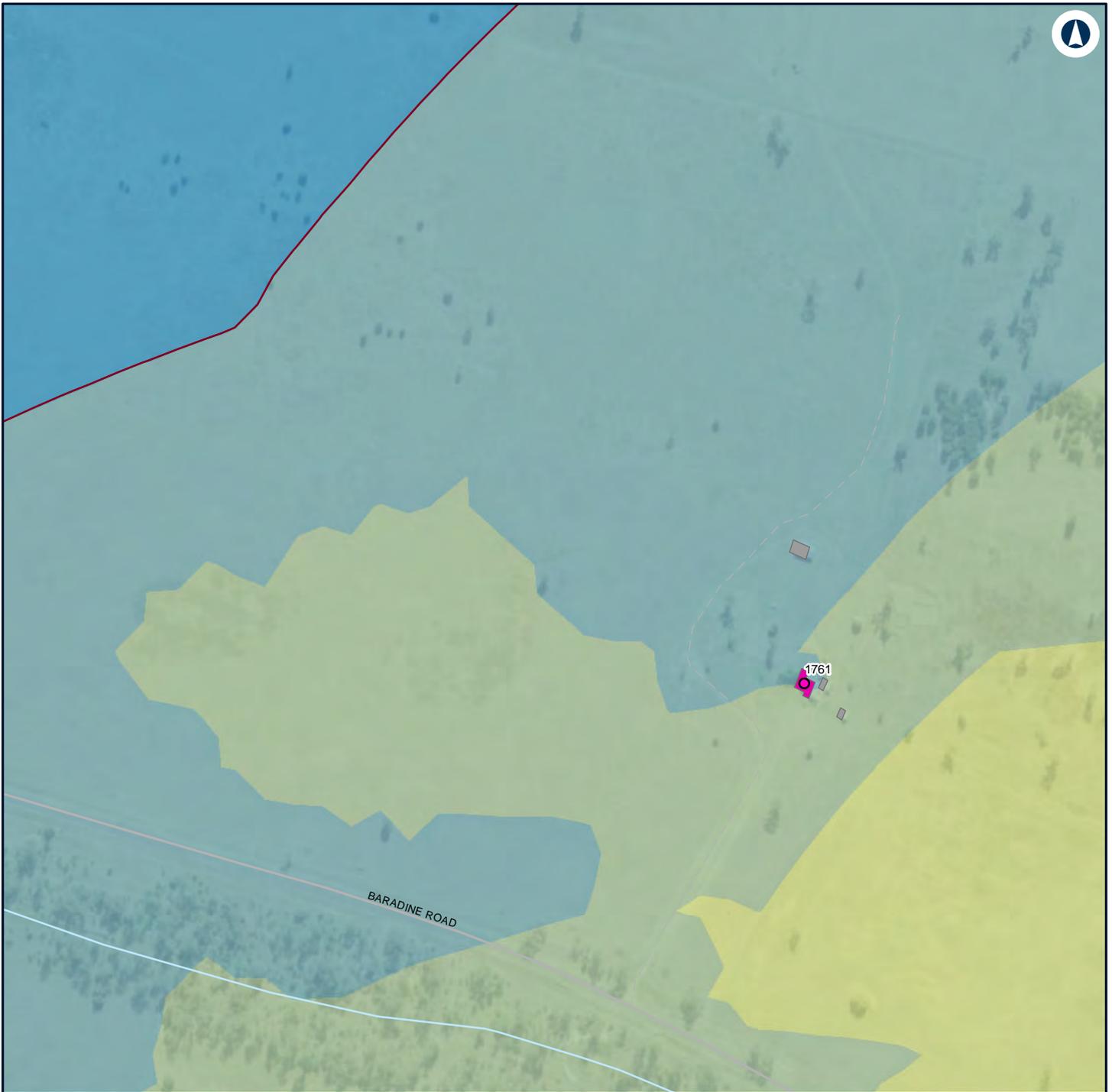
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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50
- Night-time noise management level



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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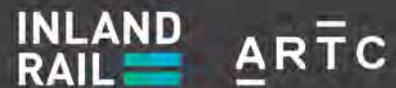


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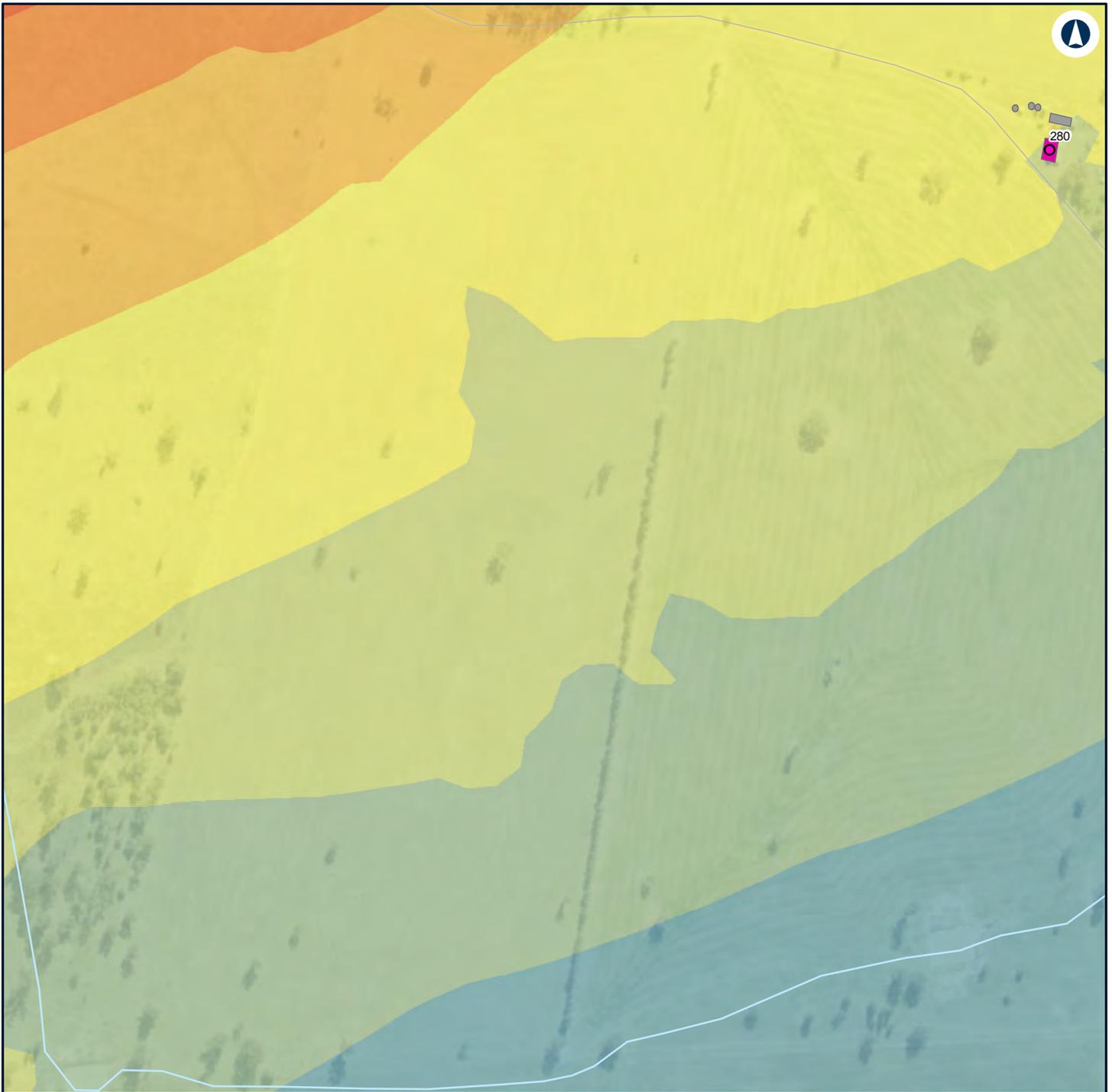
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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
■ Residential		60 - 65
Noise level (dBA L_{Aeq} 15 minute)		65 - 70
■	35 - 40	
■	40 - 45	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

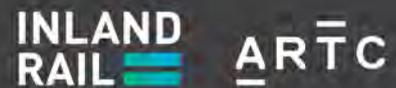


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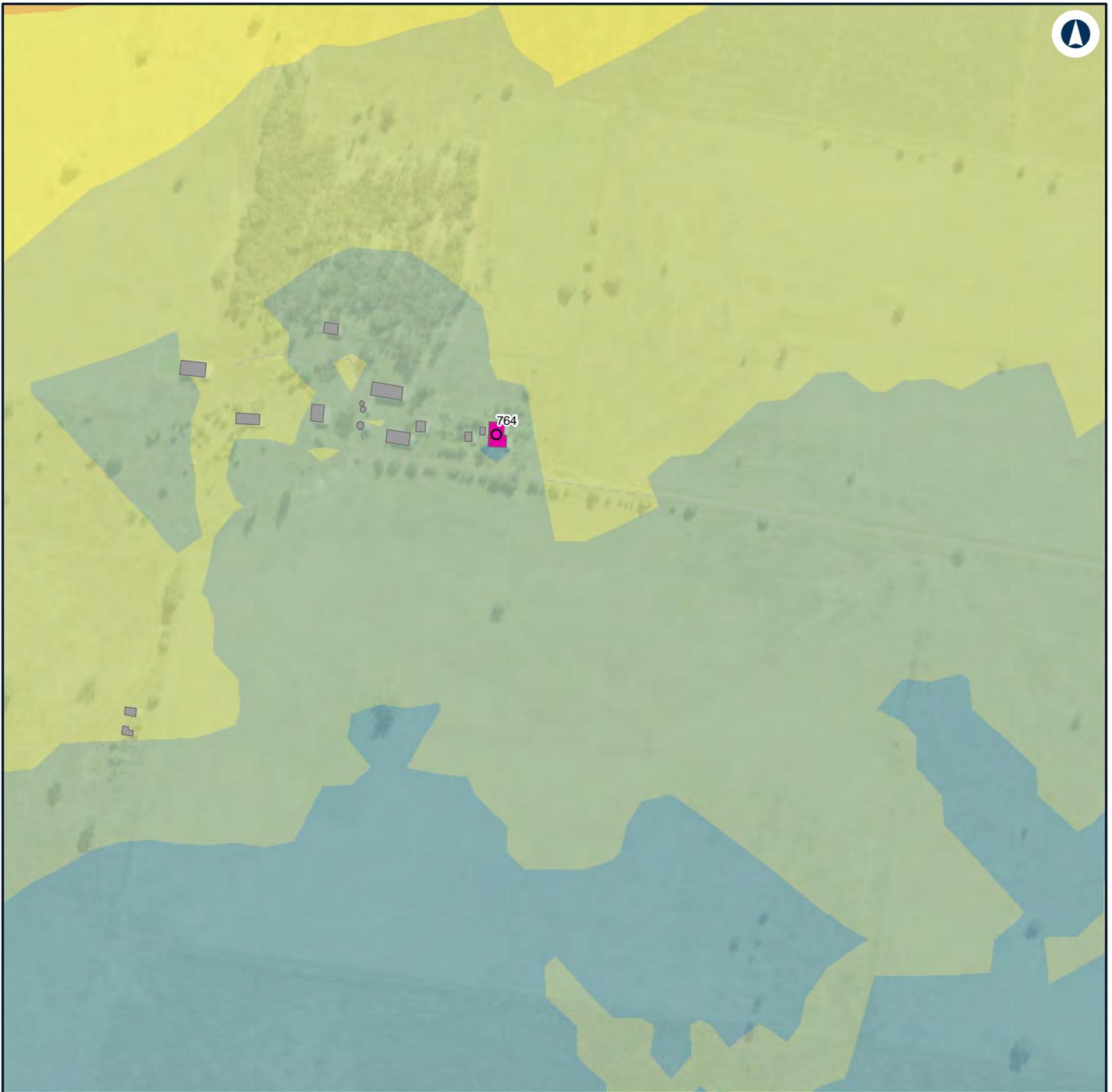
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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
■ Residential		
Noise level (dBA L_{Aeq} 15 minute)		
■ 35 - 40		
■ 40 - 45		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

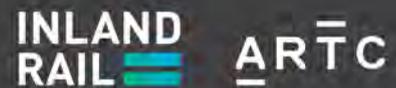


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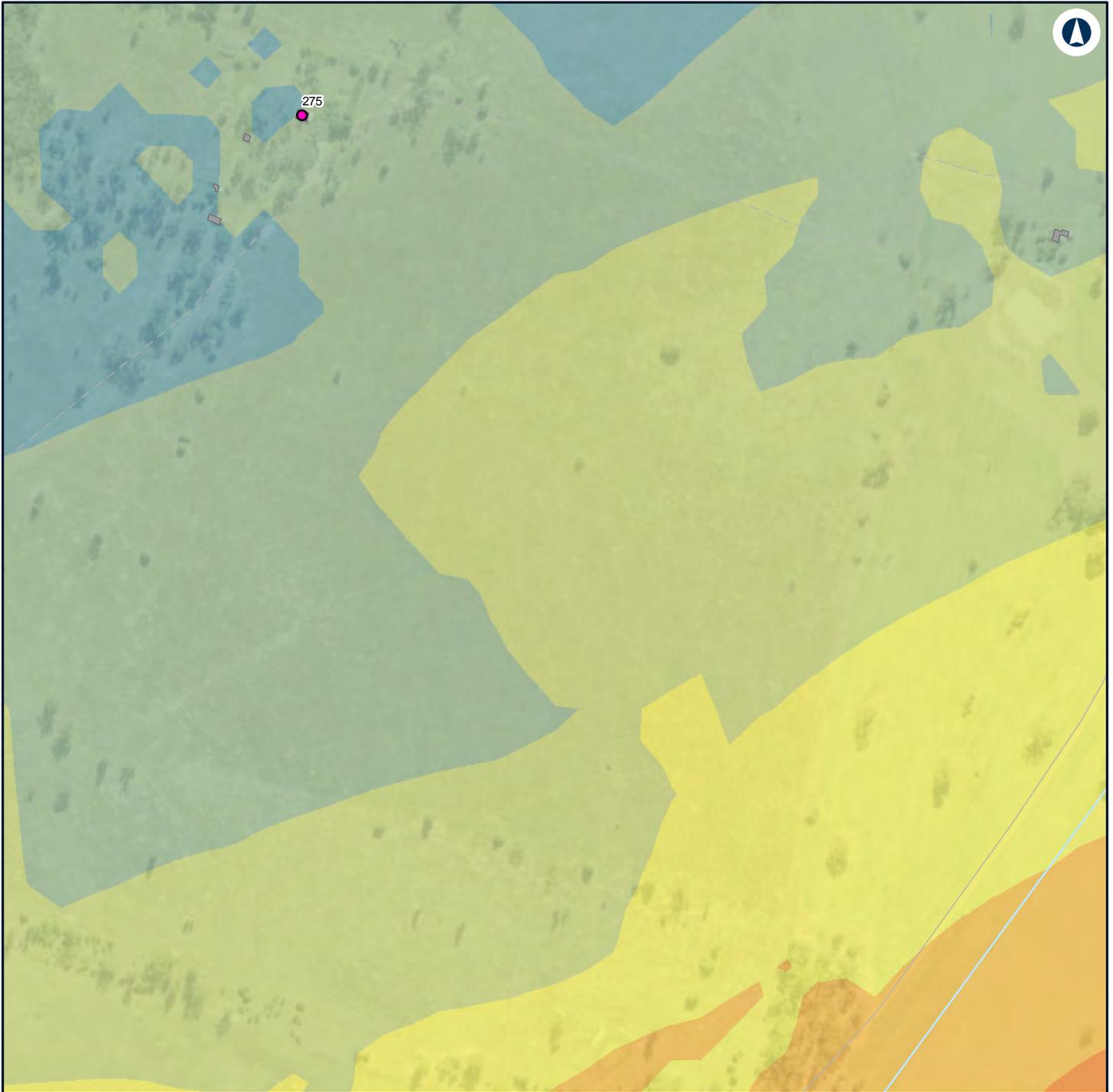
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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
■ Residential		60 - 65
Noise level (dBA L_{Aeq} 15 minute)		
■ 35 - 40		
■ 40 - 45		



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

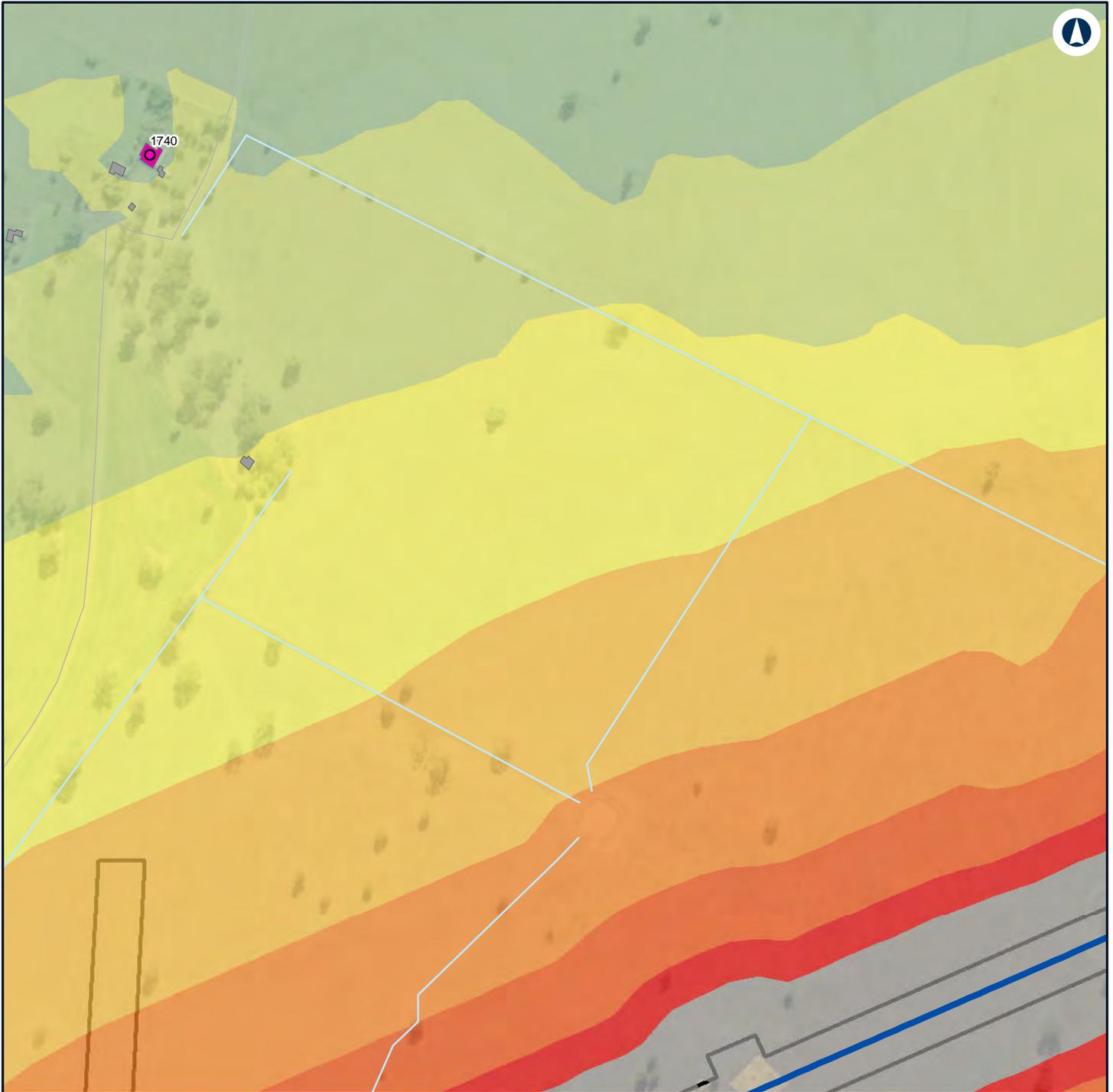
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LEGEND

Construction footprint	35 - 40	65 - 70
Structure type	40 - 45	70 - 75
Residential	45 - 50	> 75
Other	50 - 55	
Residential	55 - 60	
Alignment	60 - 65	

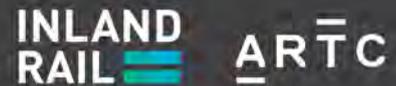


NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 207 of 298

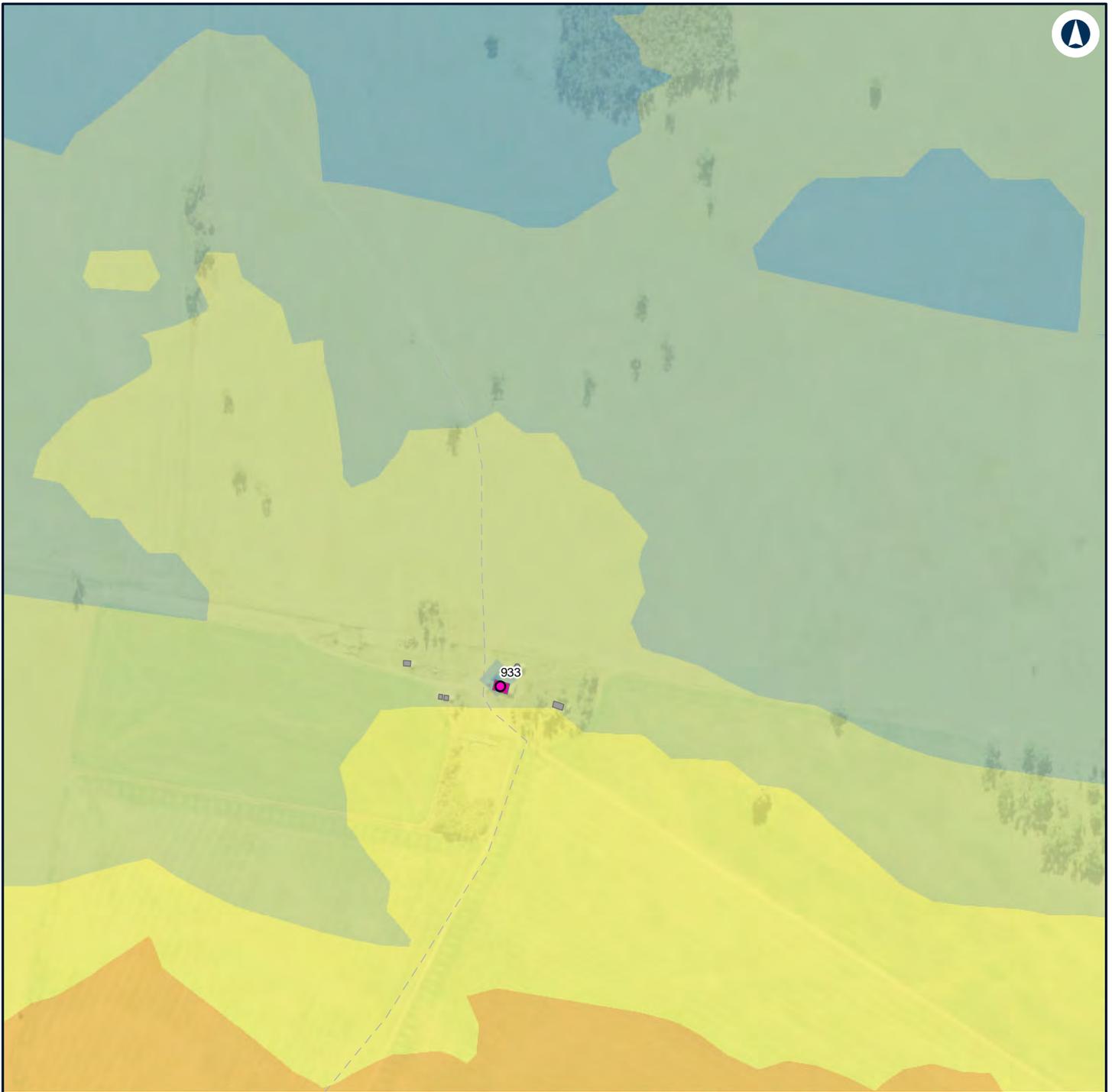


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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
● Residential		
Noise level (dBA L_{Aeq} 15 minute)		
■ 35 - 40		
■ 40 - 45		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

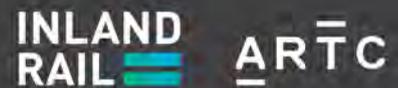


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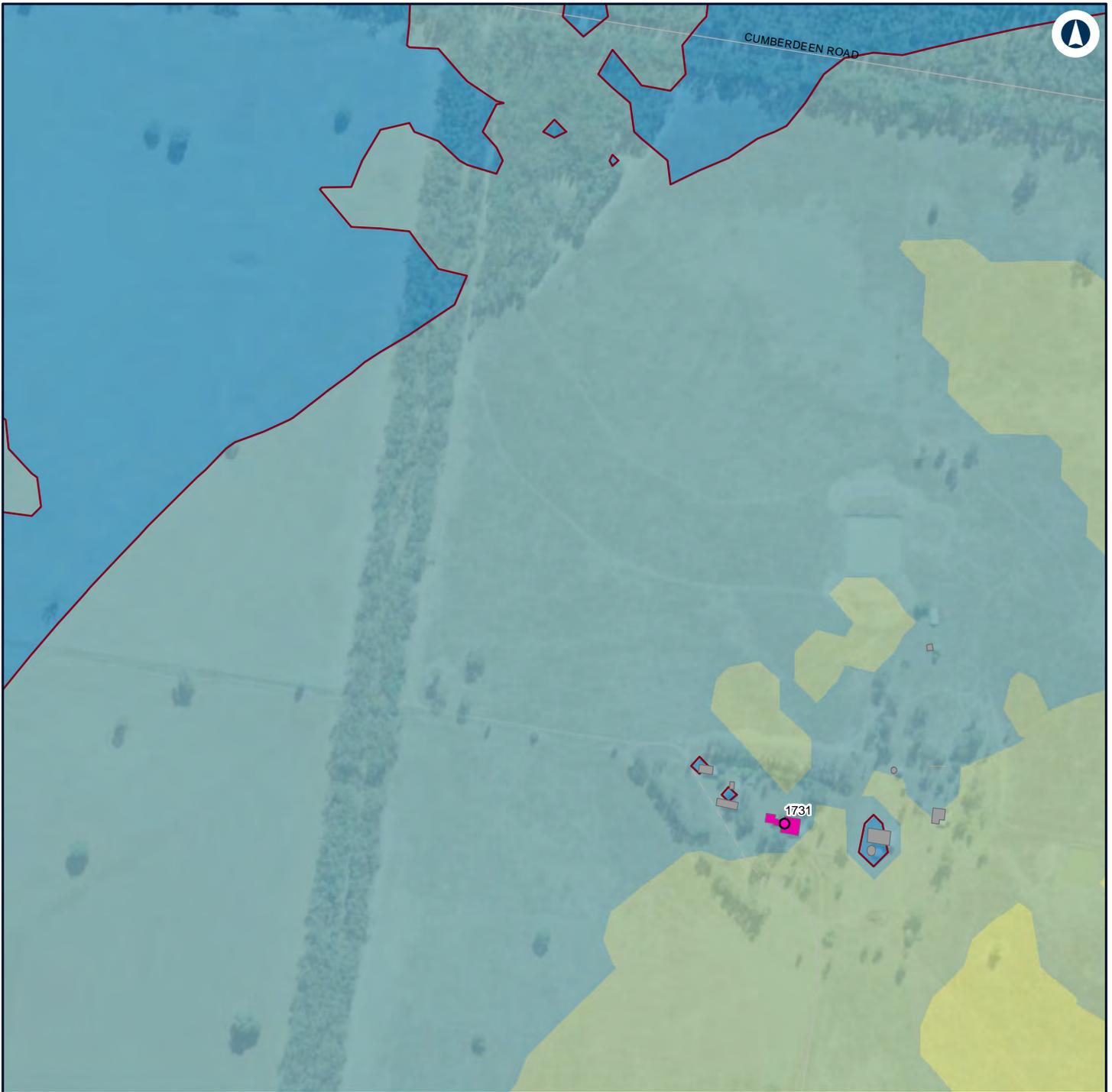
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LEGEND

Structure type

- Residential
- Other
- Residential
- Night-time noise management level

- 35 - 40
- 40 - 45
- 45 - 50

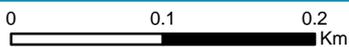
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

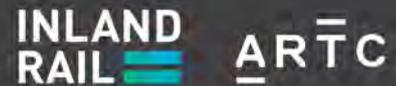


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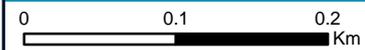
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35

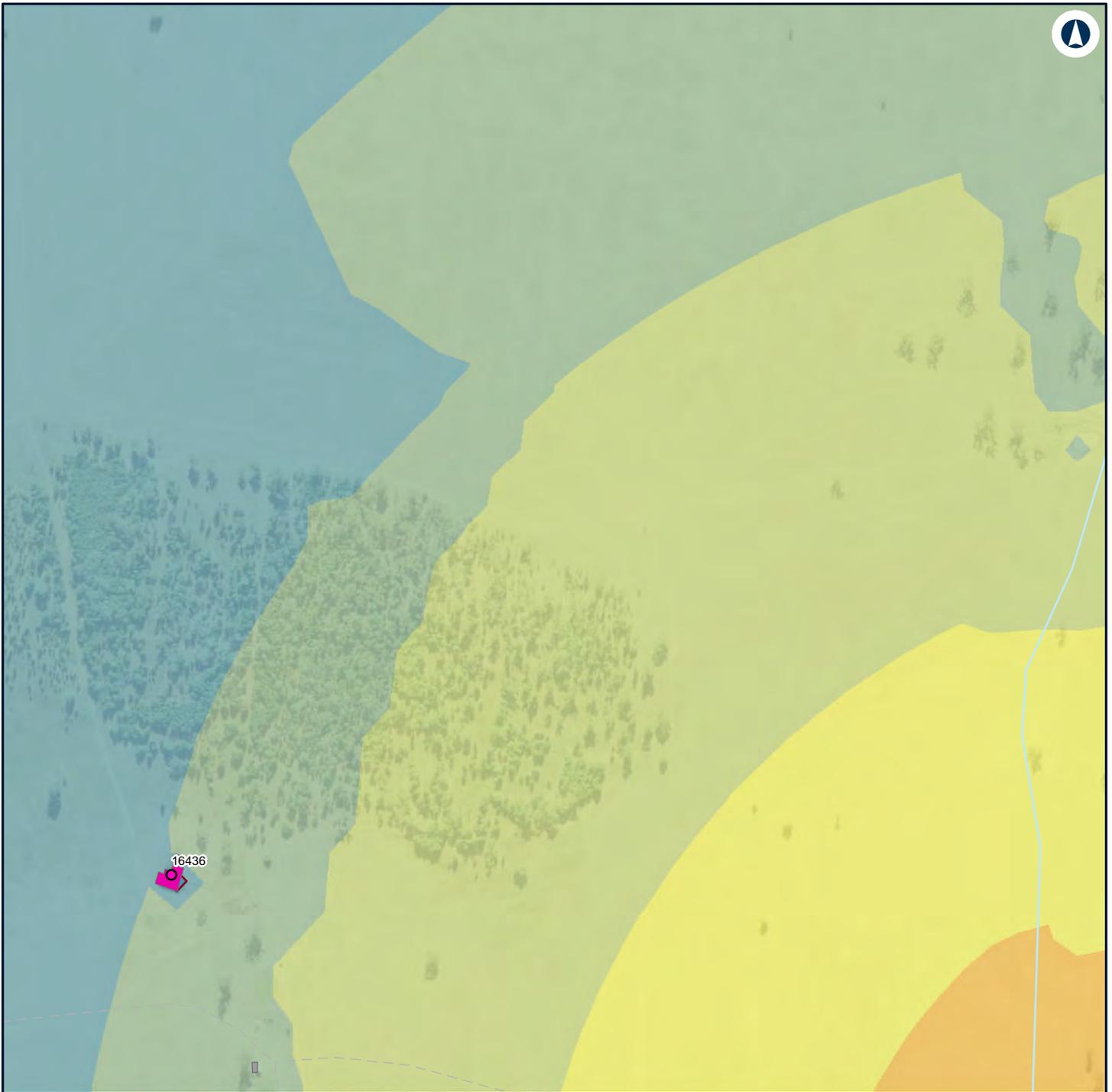


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LEGEND

Structure type		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		50 - 55
— Night-time noise management level		55 - 60
Noise level (dBA L_{Aeq} 15 minute)		
■	30 - 35	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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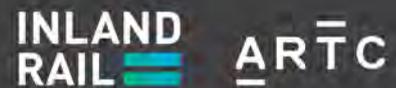
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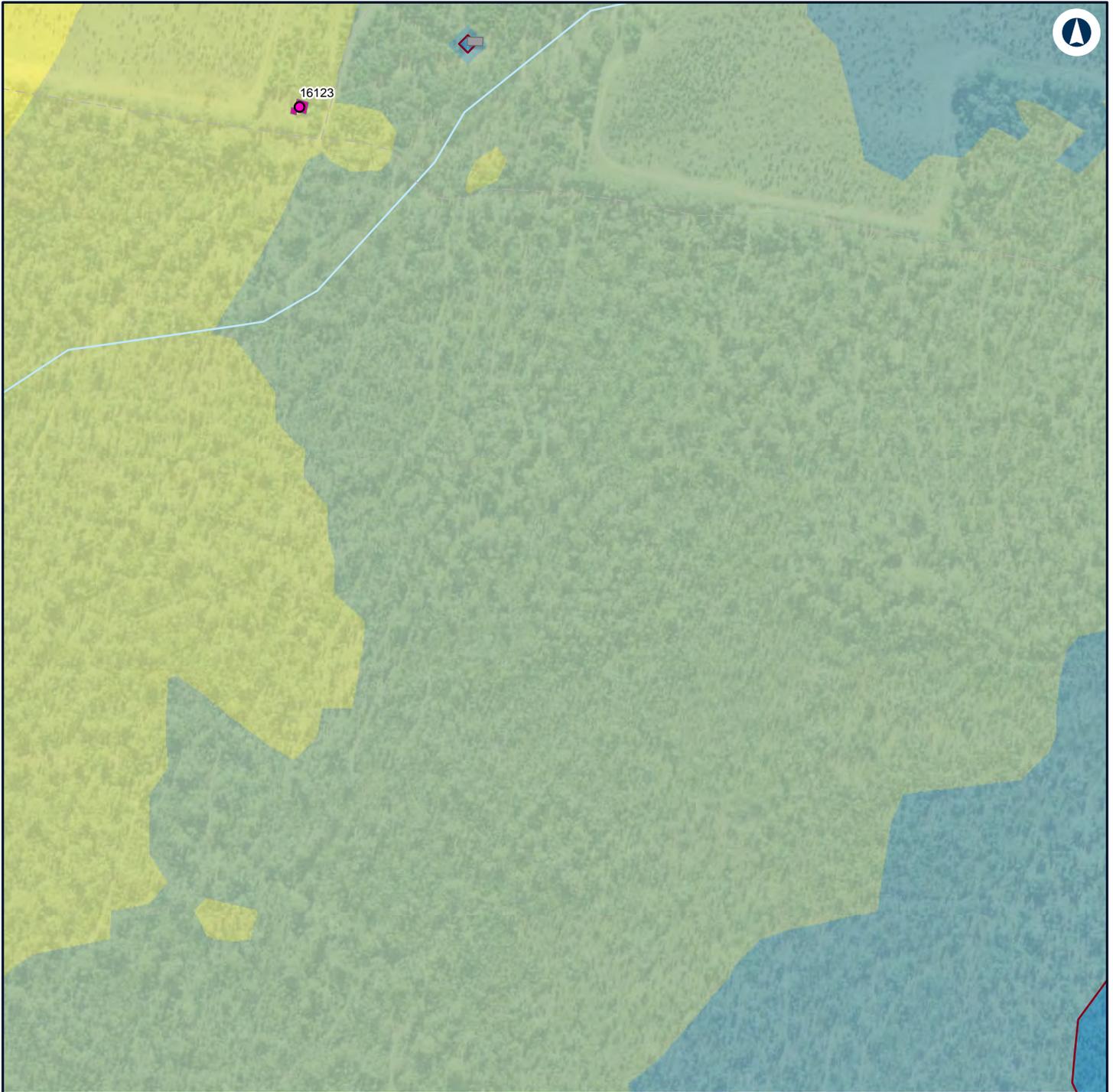
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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55



NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 212 of 298

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

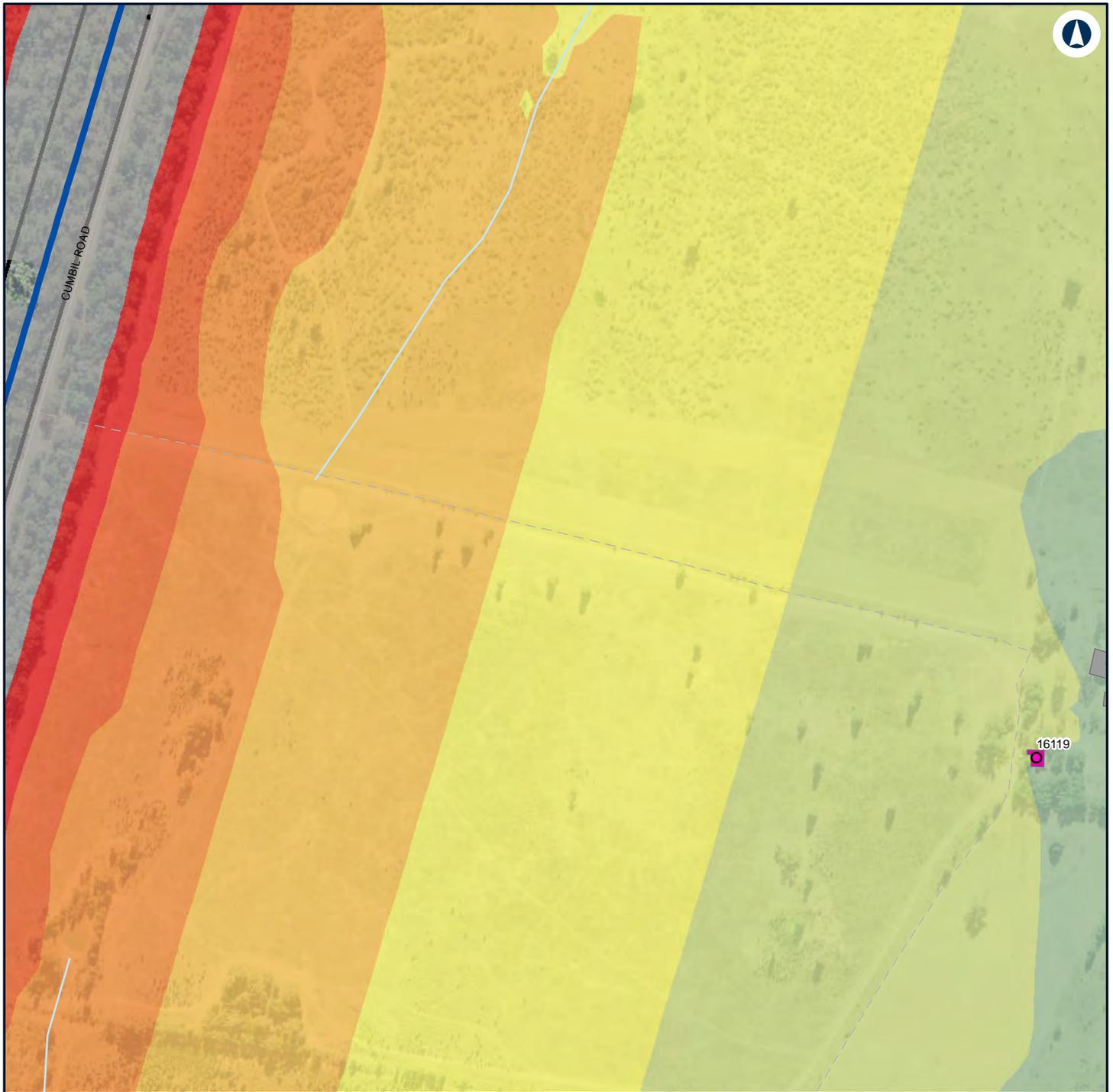
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Other	50 - 55	
Residential	55 - 60	
Alignment	60 - 65	
	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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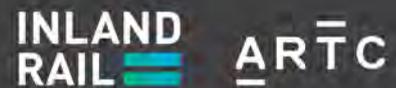
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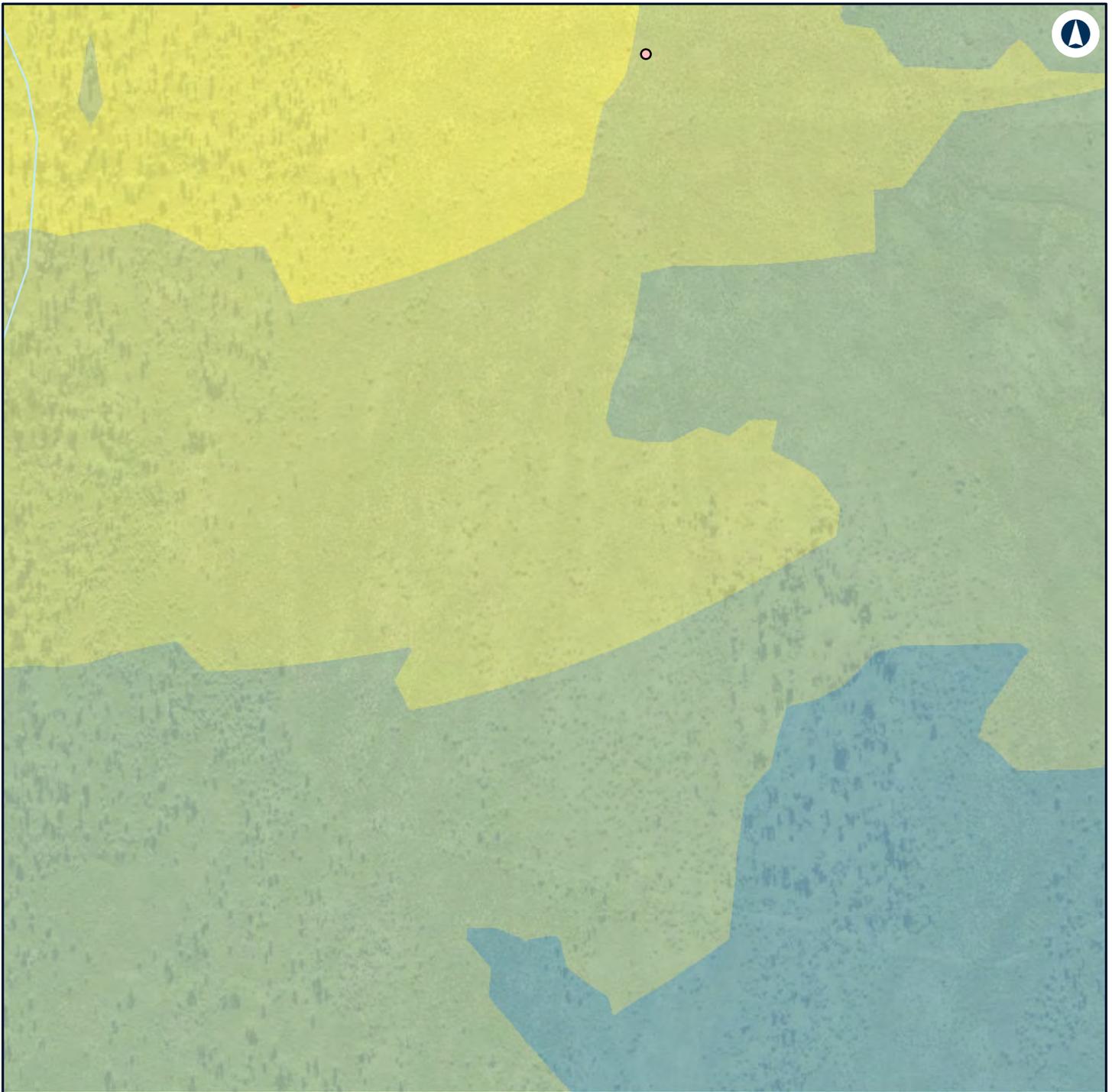
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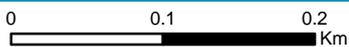


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LEGEND

- Structure type**
- Passive recreation
- Noise level (dBA L_{Aeq} 15 minute)**
- 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55
 - 55 - 60

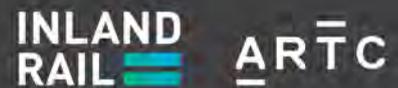


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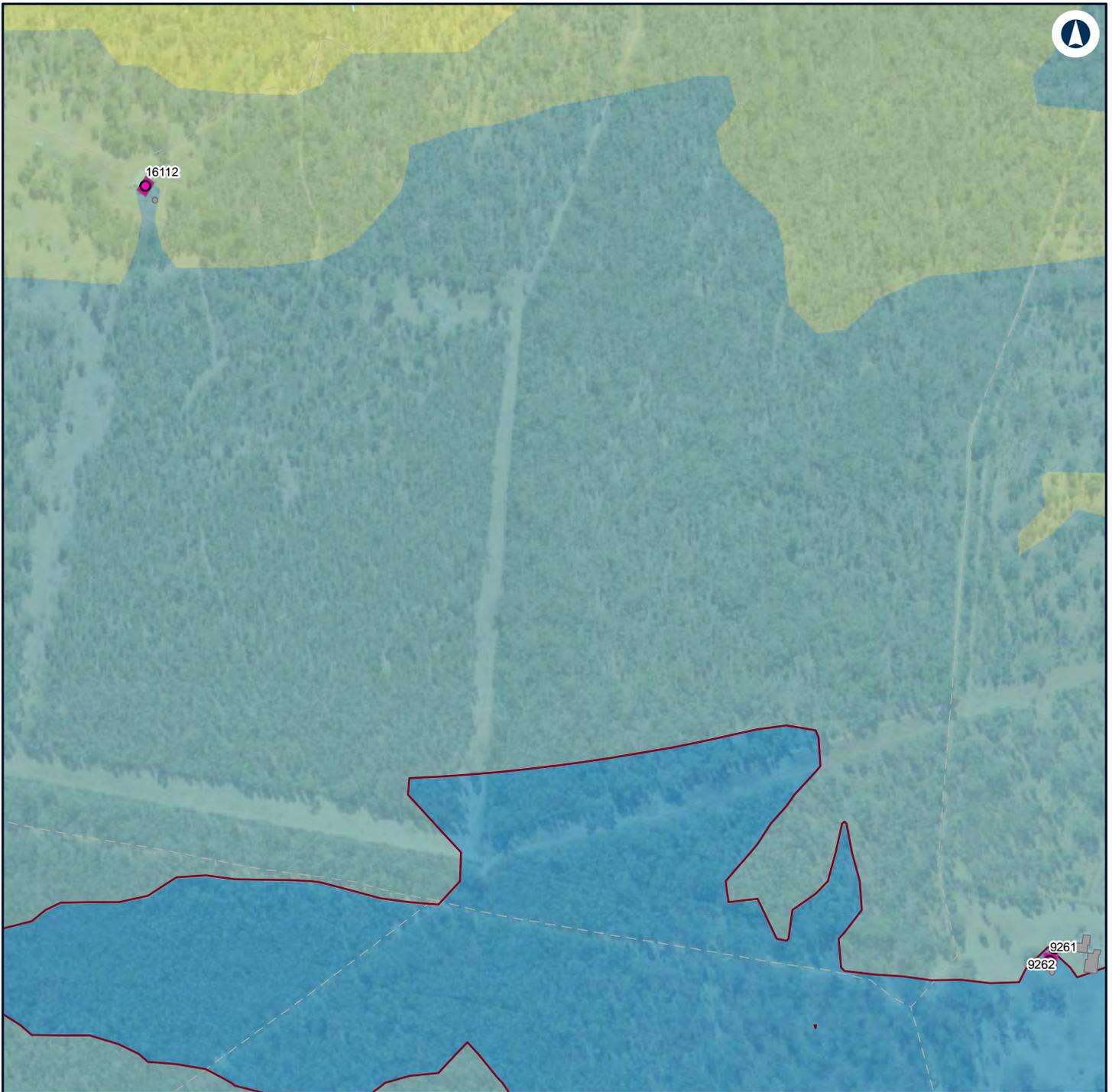
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LEGEND

Structure type

- Residential
- Other
- Residential

- 35 - 40
- 40 - 45
- 45 - 50

— Night-time noise management level

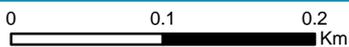
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



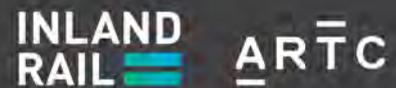
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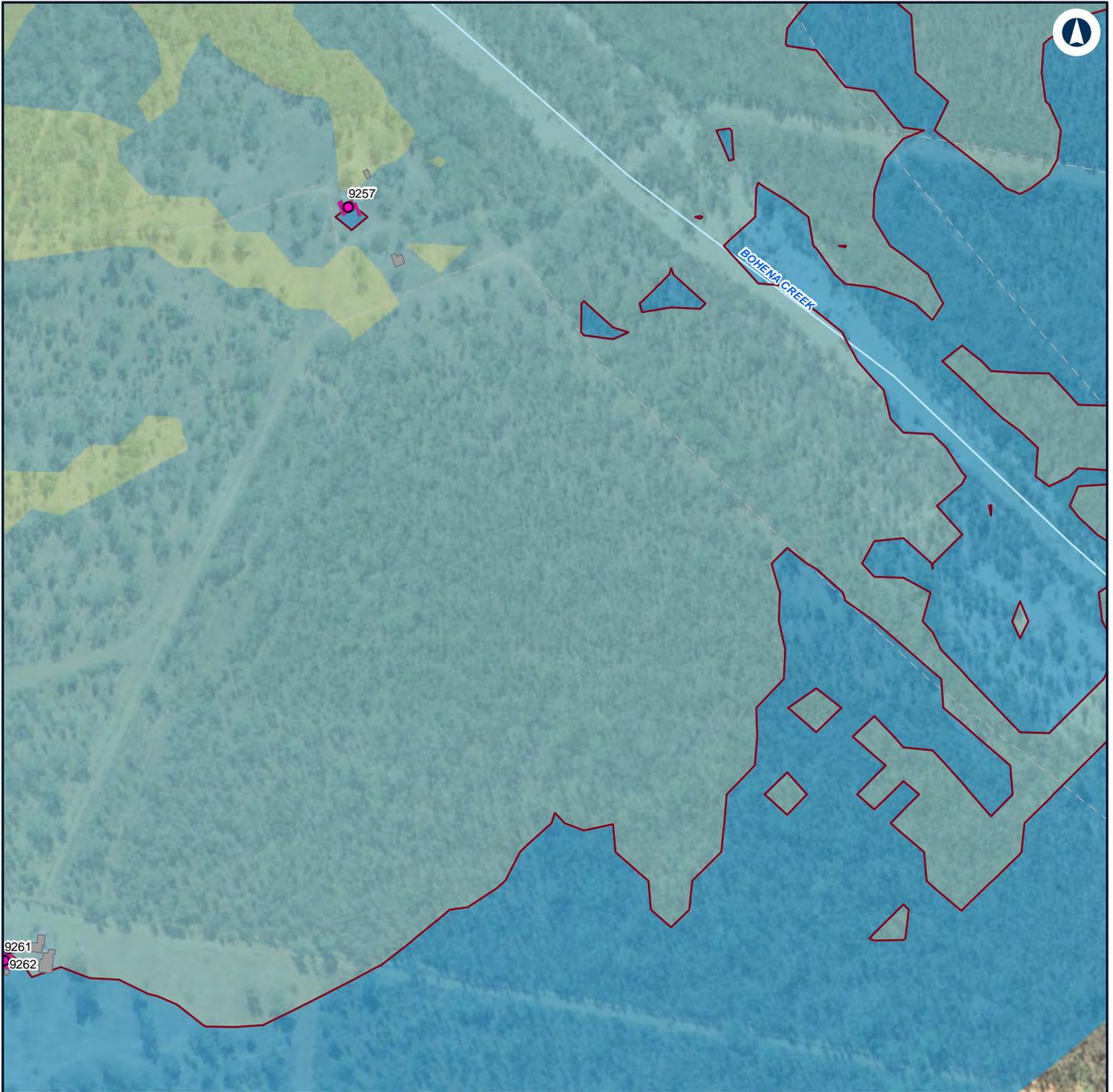
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LEGEND

Structure type

- Residential
- Other
- Residential

- 35 - 40
- 40 - 45

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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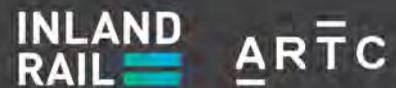
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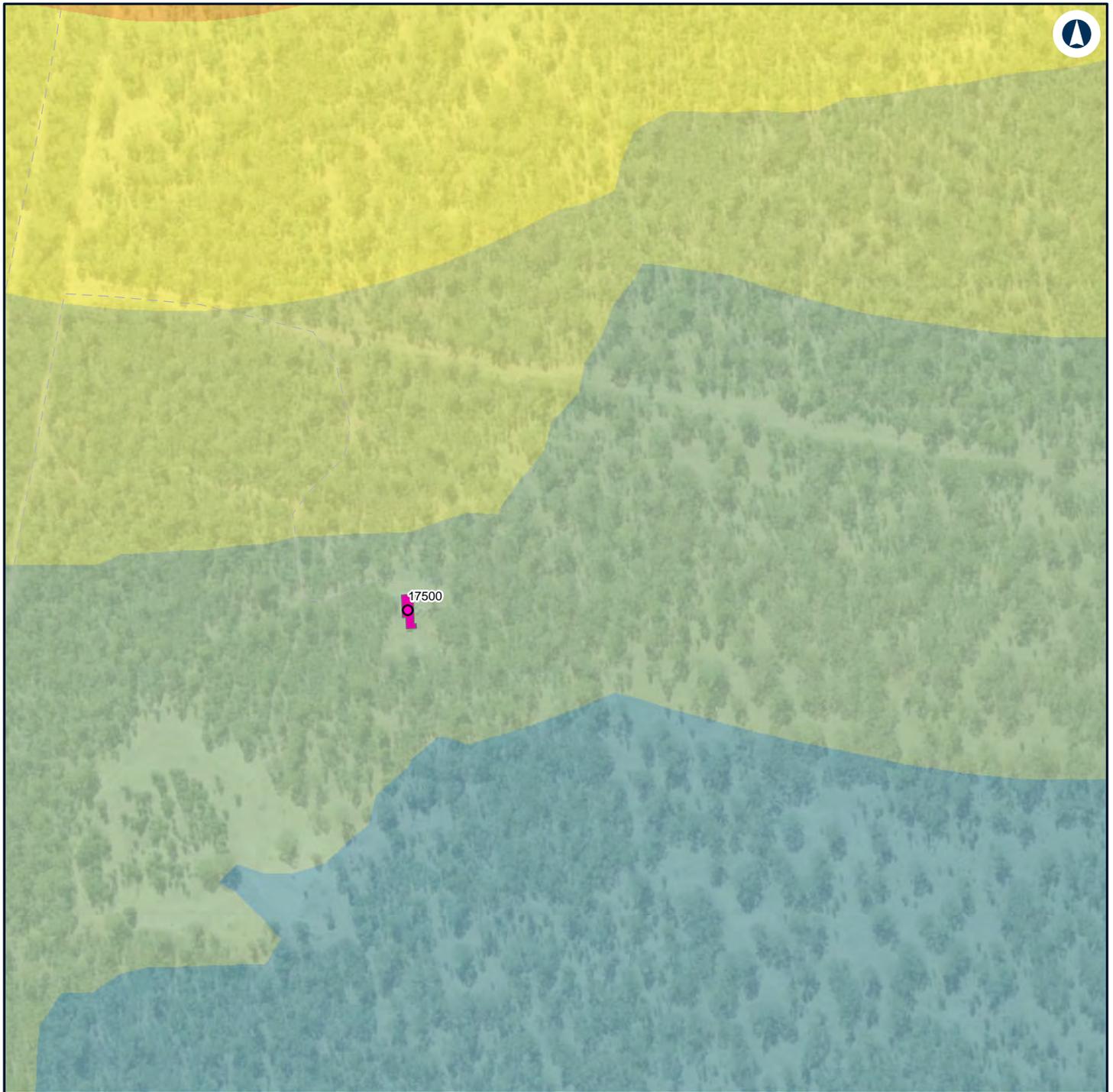
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LEGEND

- Structure type**
- Residential
 - 50 - 55
 - 55 - 60
- Noise level (dBA L_{Aeq} 15 minute)**
- 35 - 40
 - 40 - 45
 - 45 - 50



NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 217 of 298

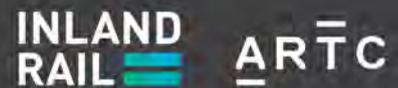


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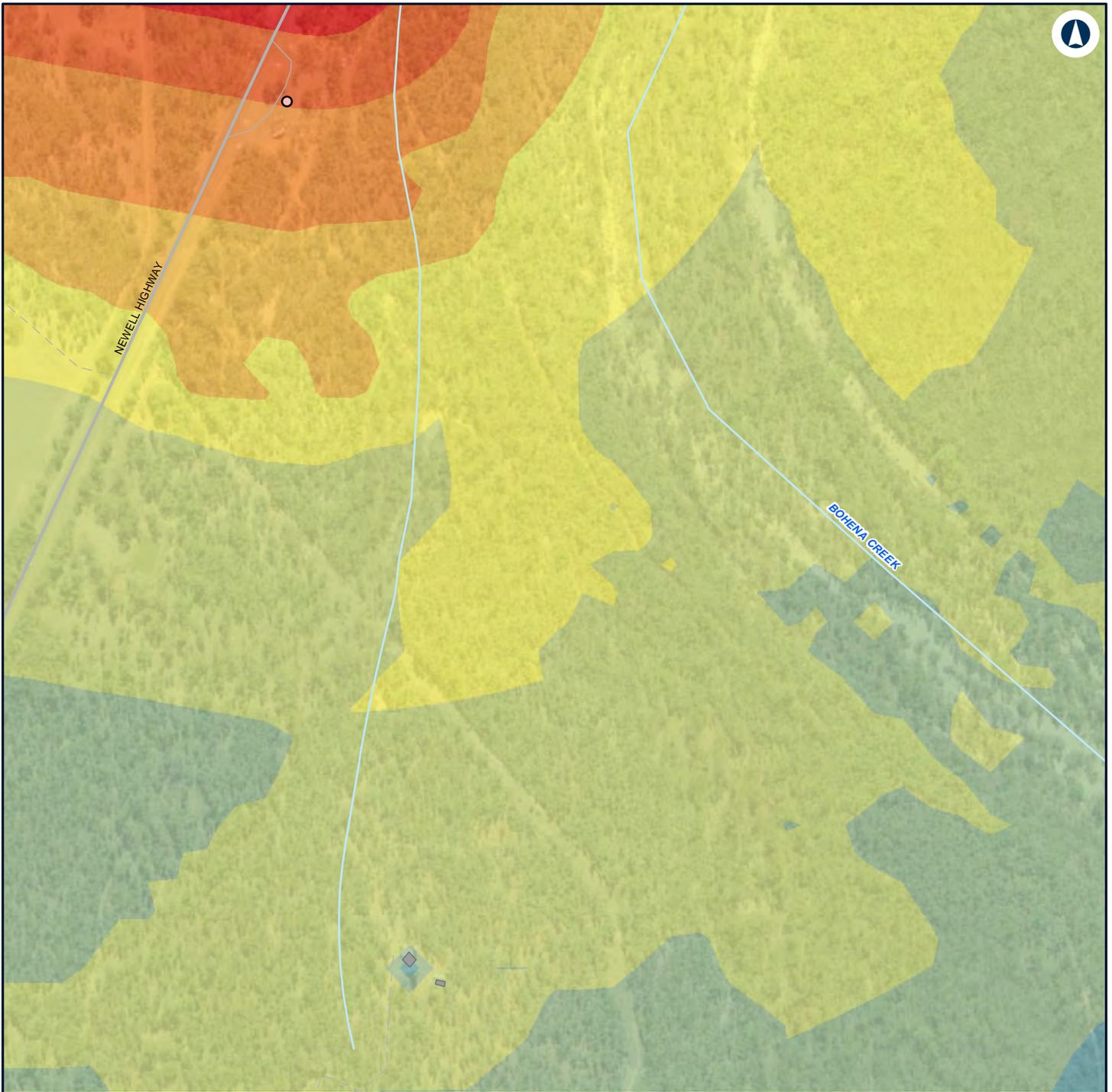
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LEGEND

Structure type		50 - 55
○ Passive recreation		55 - 60
■ Other		60 - 65
Noise level (dBA L_{Aeq} 15 minute)		65 - 70
■ 35 - 40		70 - 75
■ 40 - 45		
■ 45 - 50		

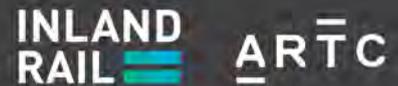


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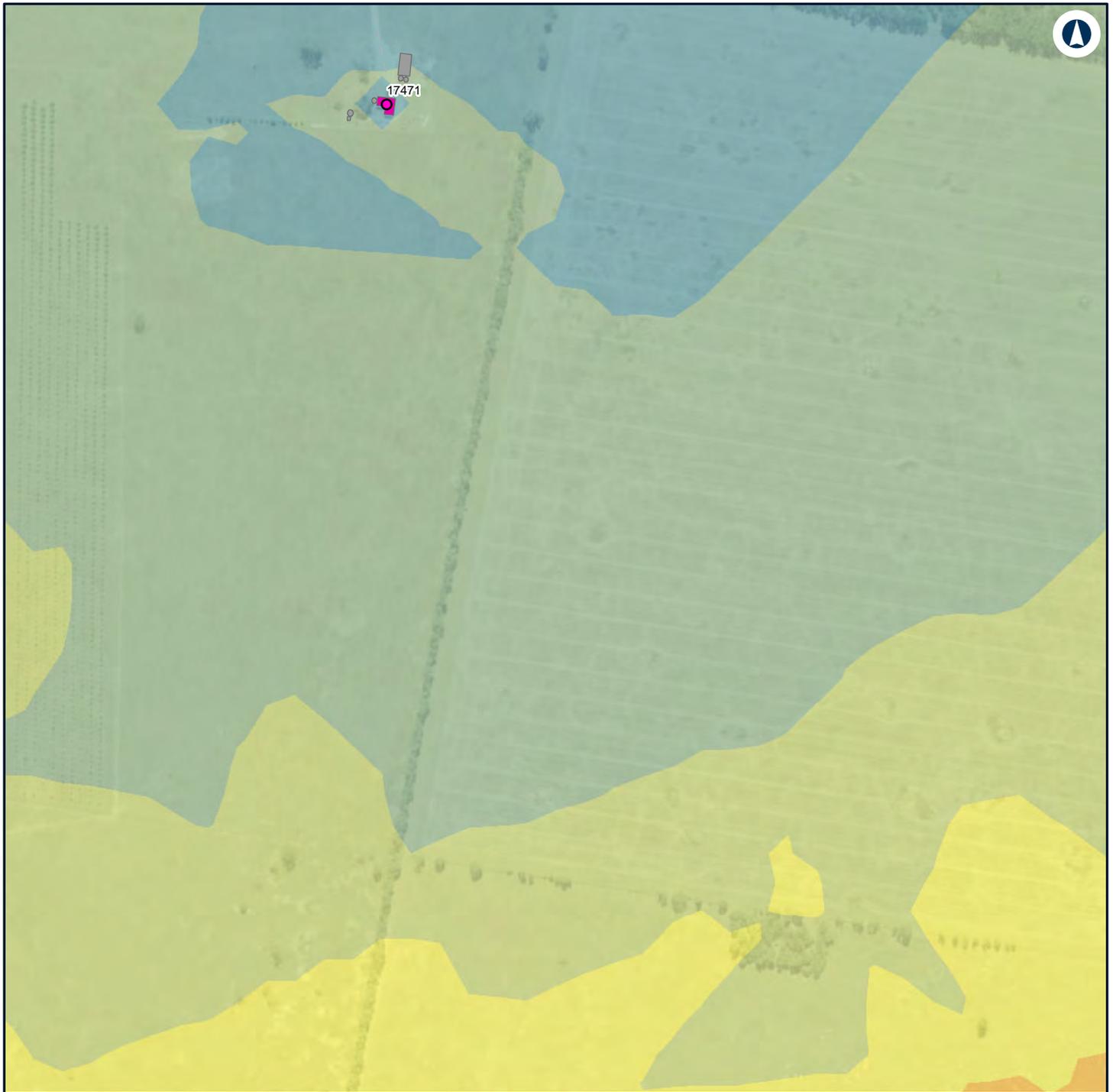
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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
■ Residential		
Noise level (dBA L_{Aeq} 15 minute)		
■ 35 - 40		
■ 40 - 45		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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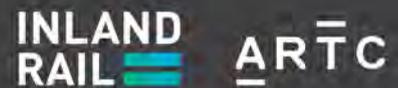
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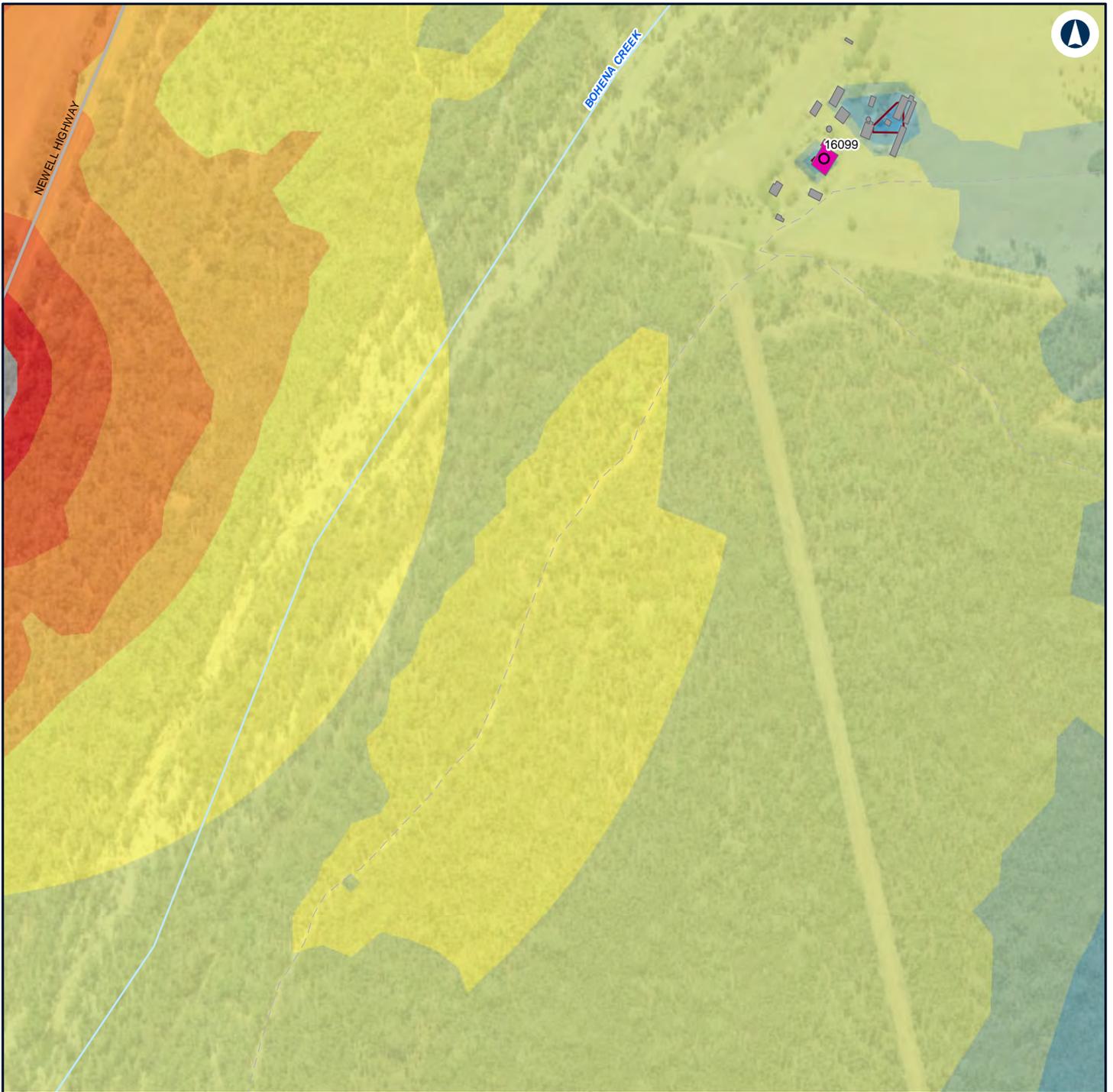
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LEGEND

Structure type

- Residential
- Other
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

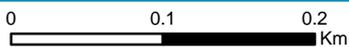
■ 30 - 35

- | | |
|---|--|
| ■ 35 - 40 | ■ 70 - 75 |
| ■ 40 - 45 | ■ > 75 |
| ■ 45 - 50 | |
| ■ 50 - 55 | |
| ■ 55 - 60 | |
| ■ 60 - 65 | |
| ■ 65 - 70 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

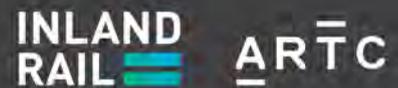
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LEGEND

- Structure type**
- Other
 - Residential
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45
- Night-time noise management level



NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 221 of 298

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

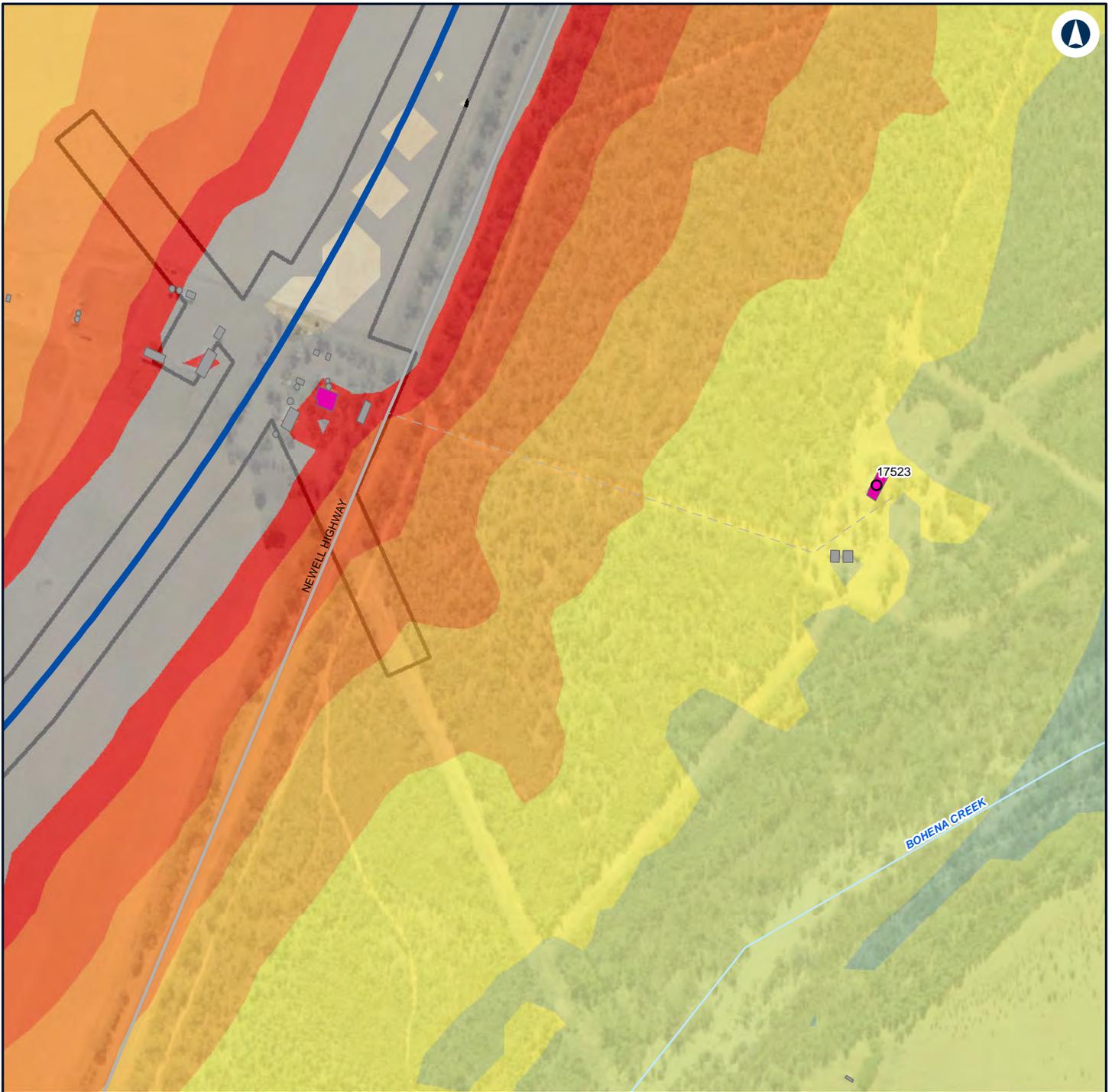
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	65 - 70	70 - 75
Structure type	35 - 40	70 - 75	> 75
Residential	40 - 45		
Other	45 - 50		
Residential	50 - 55		
Alignment	55 - 60		
	60 - 65		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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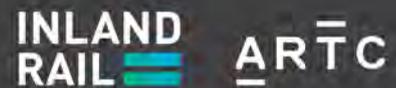
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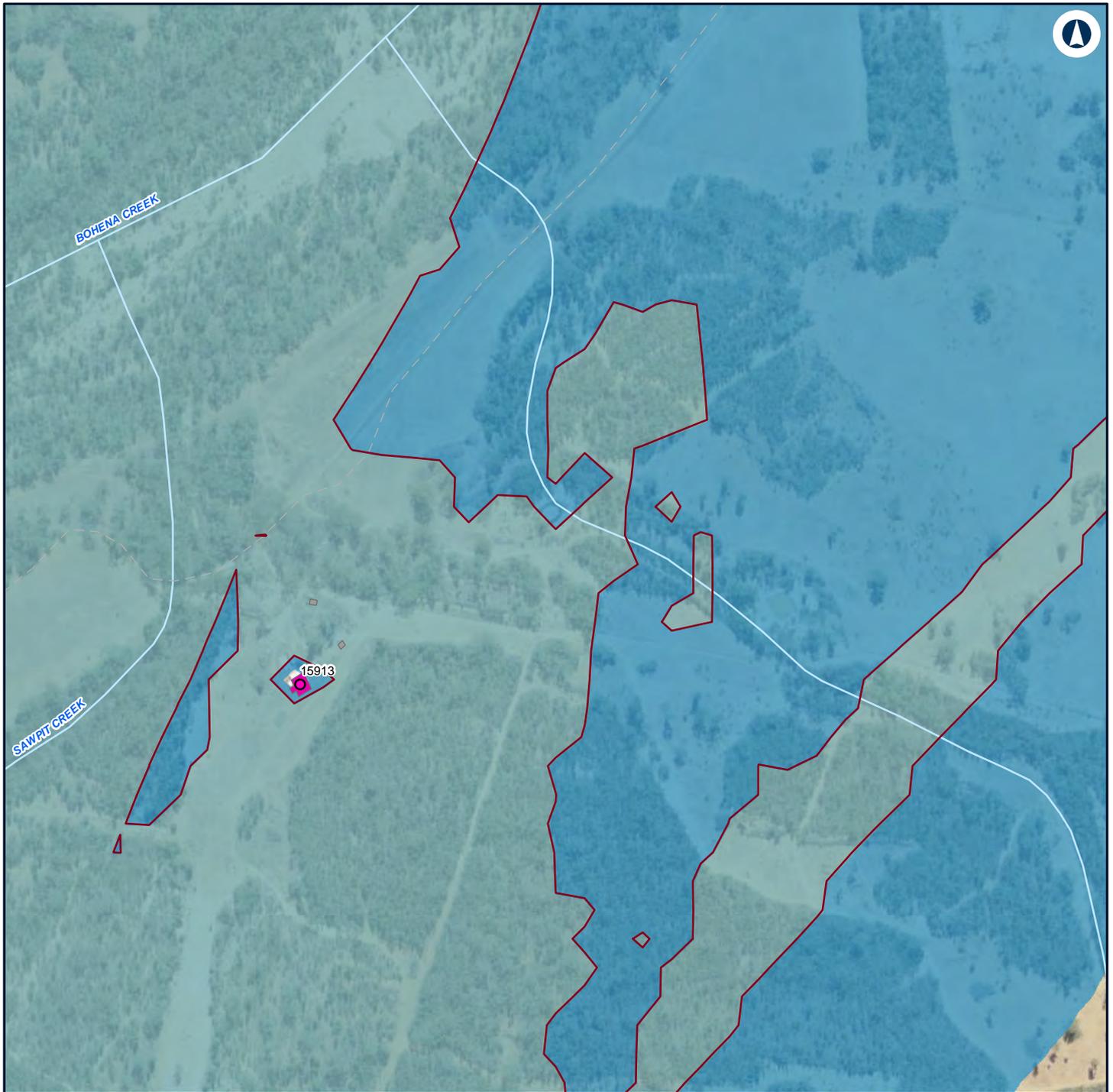
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

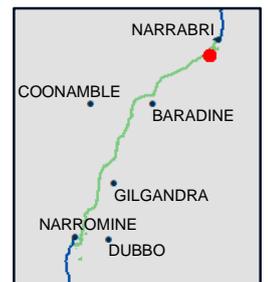
- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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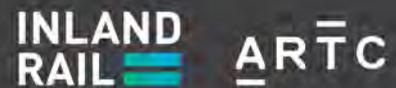
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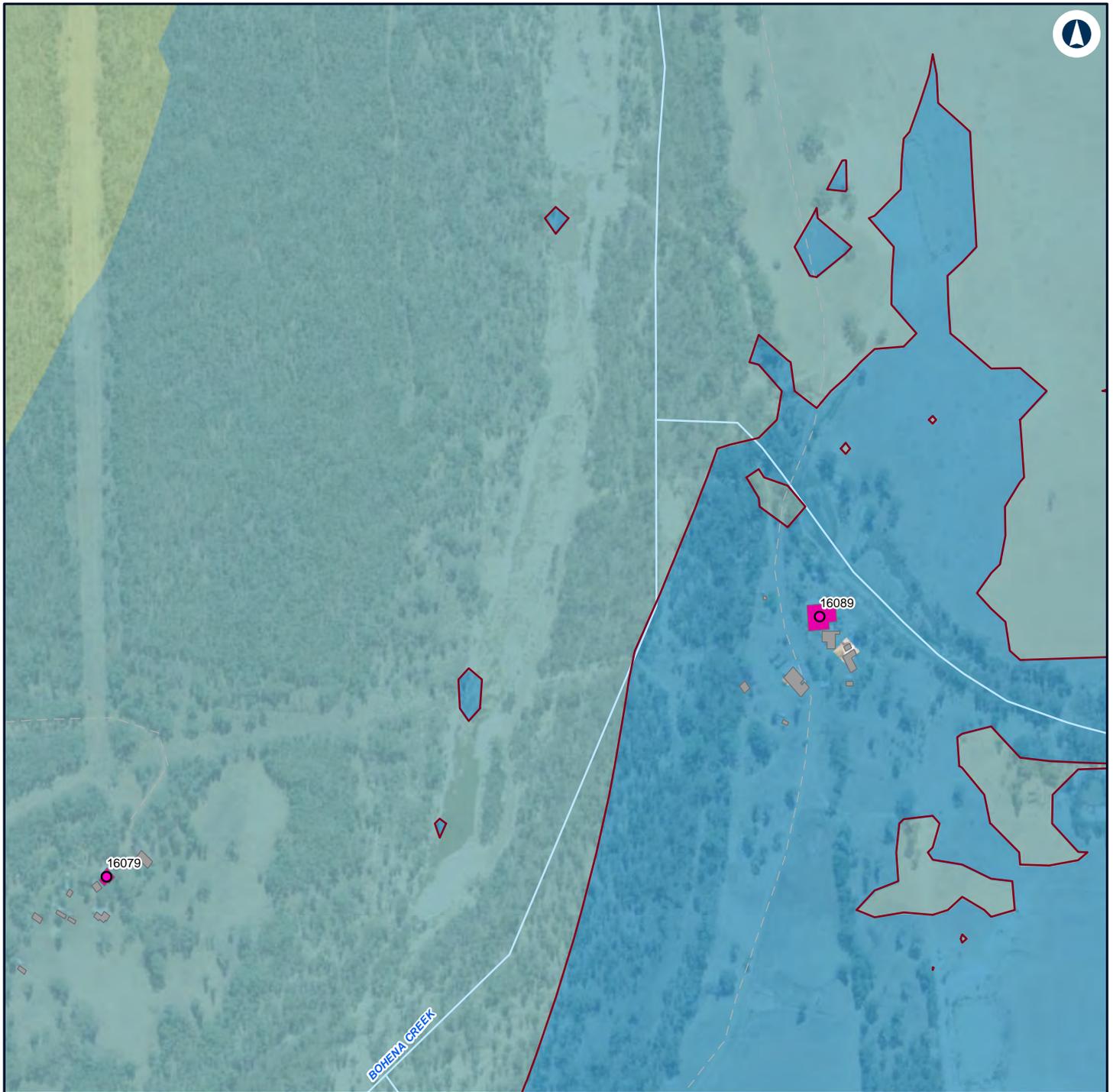
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Scale: 1:5,000

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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 224 of 298



Coordinate System: GDA 1994 MGA Zone 55

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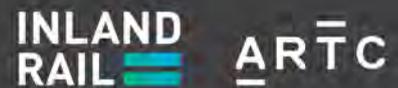
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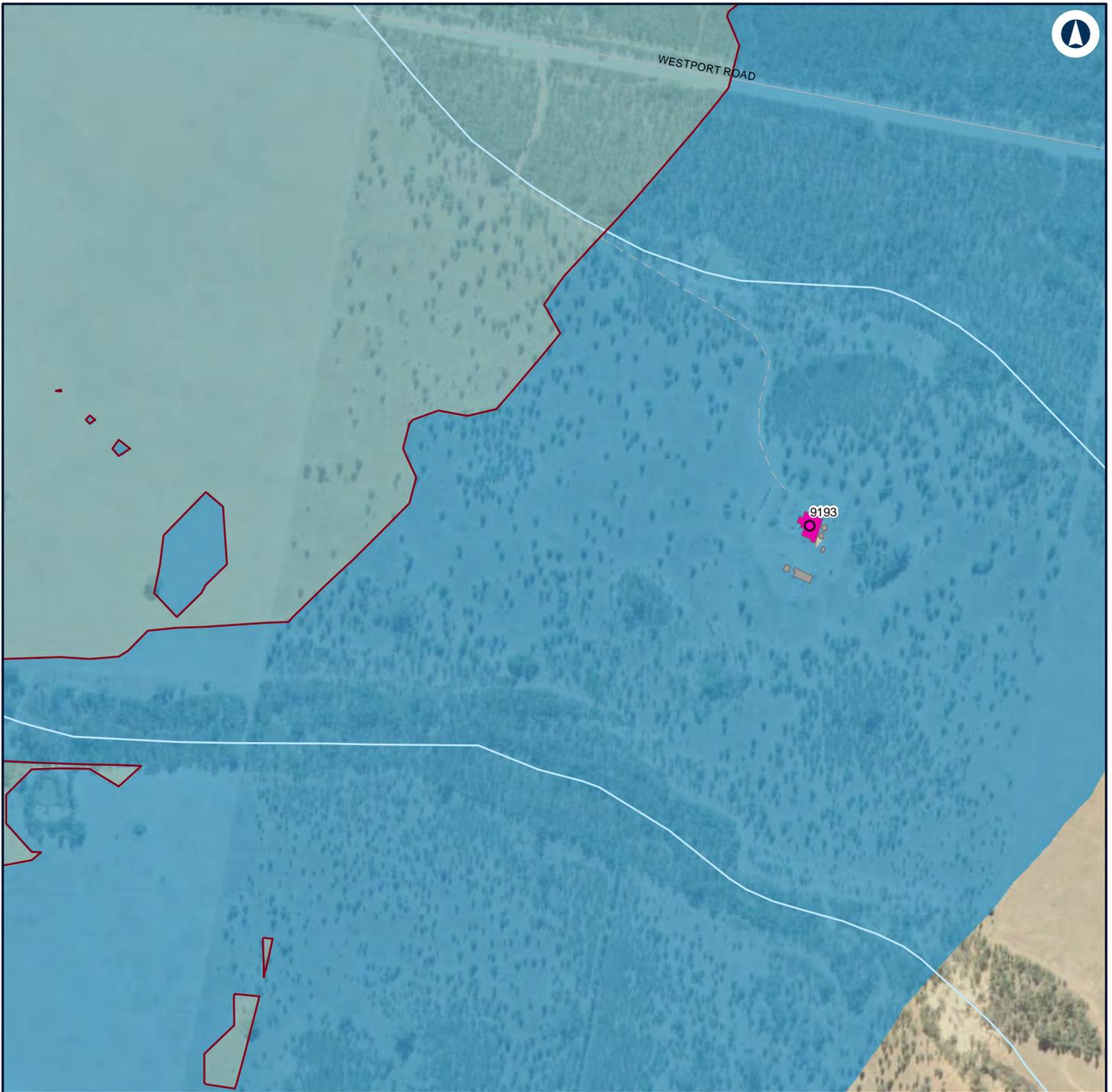
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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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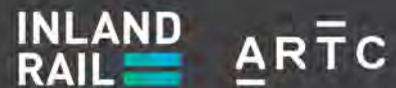
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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50



0 0.1 0.2 Km

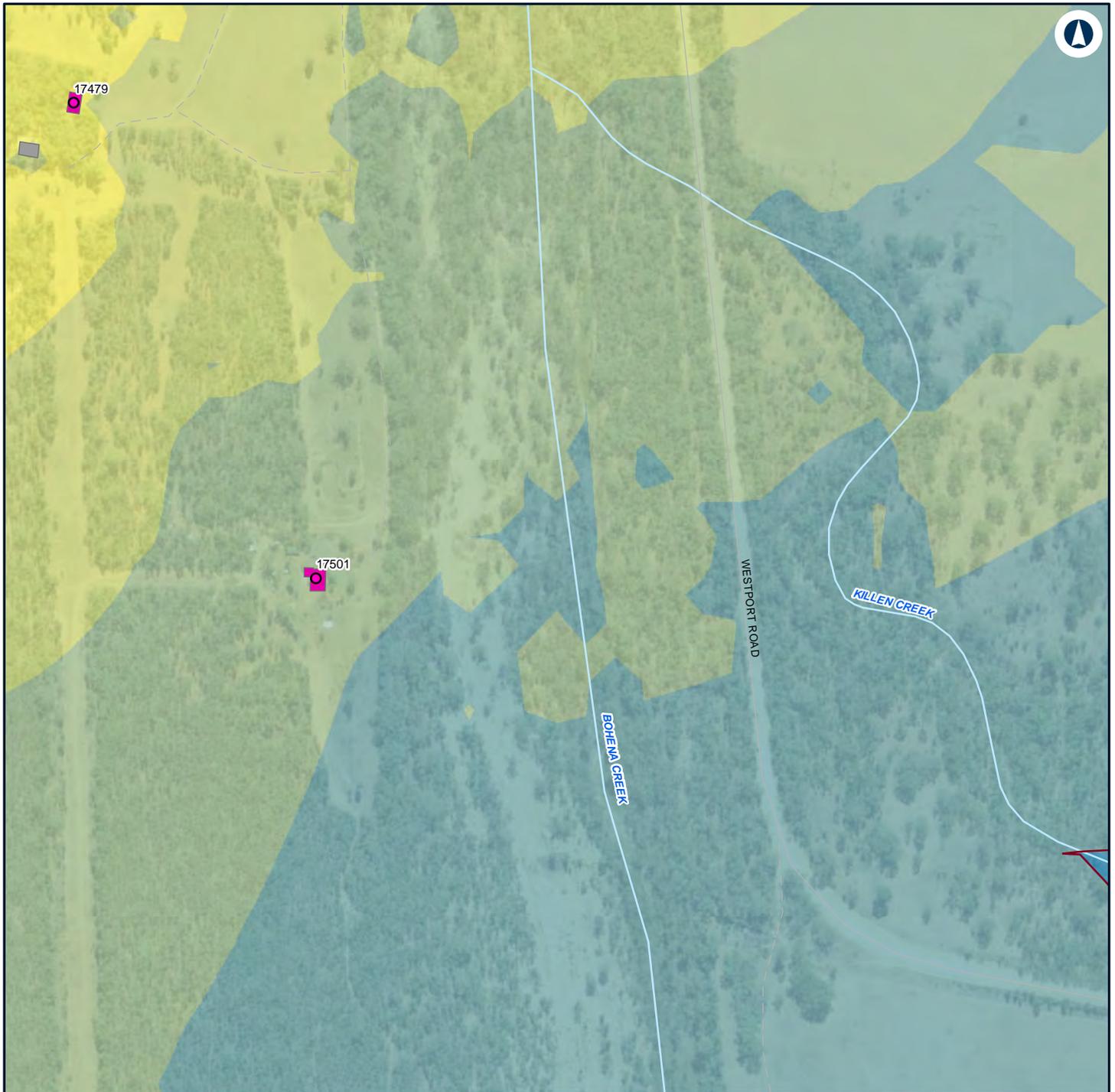
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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

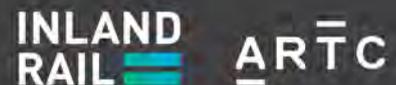
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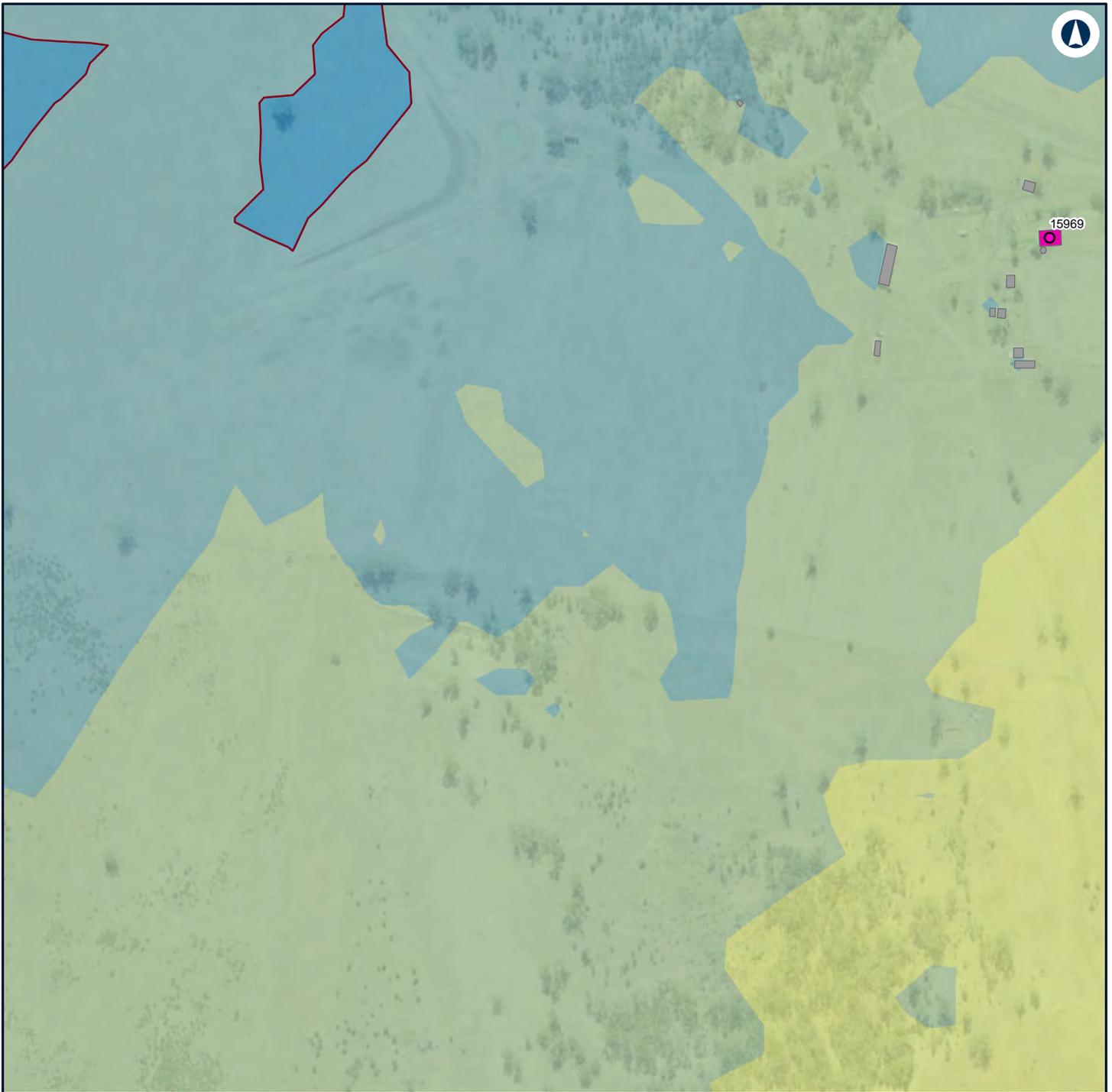
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LEGEND

Structure type

- Residential
- Other
- Residential

- 35 - 40
- 40 - 45
- 45 - 50

— Night-time noise management level

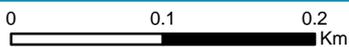
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

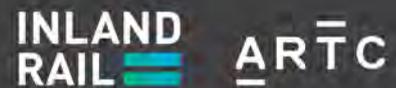


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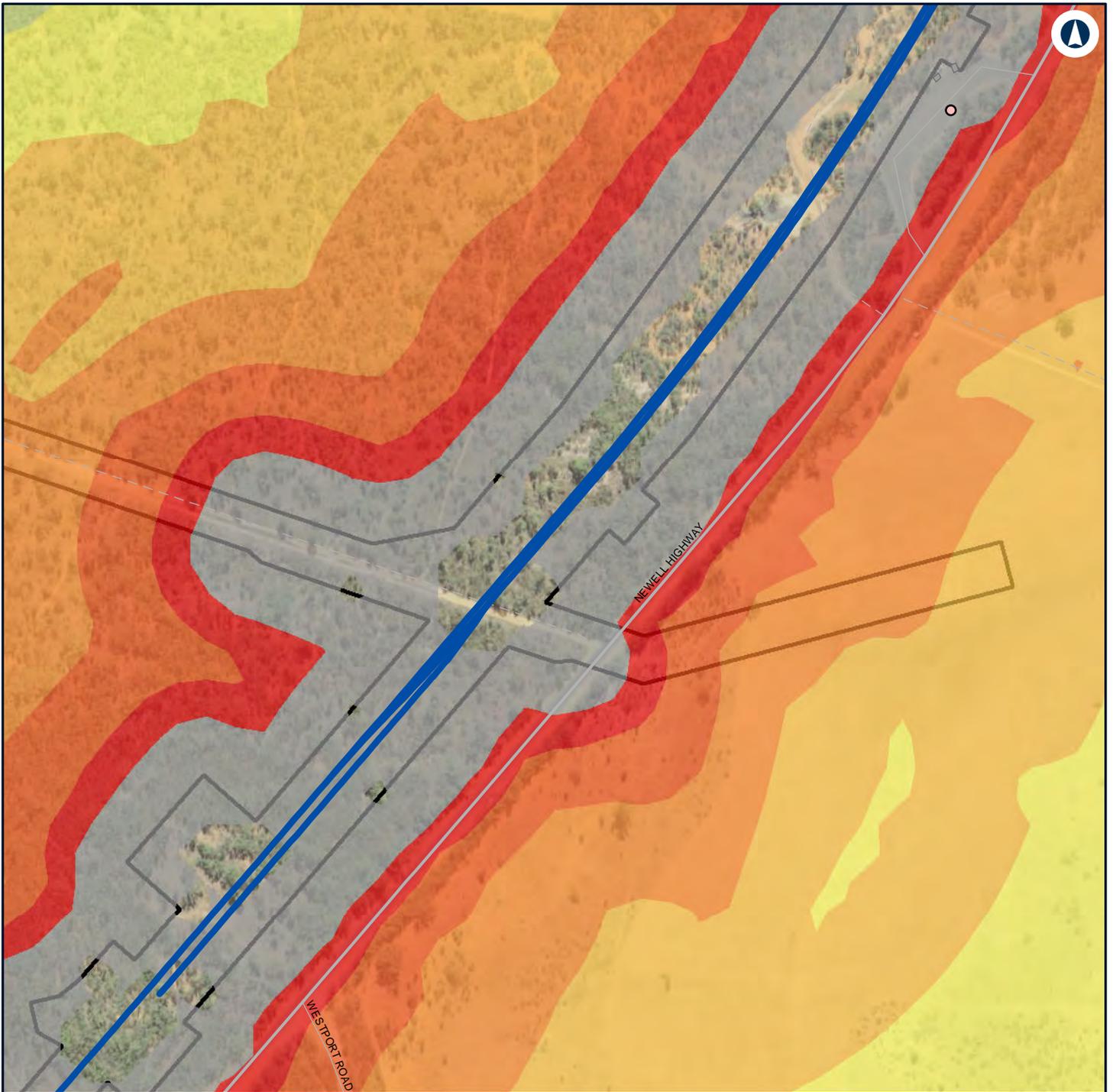
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LEGEND

Construction footprint	45 - 50
Structure type	50 - 55
Passive recreation	55 - 60
Other	60 - 65
Alignment	65 - 70
Noise level (dBA L_{Aeq} 15 minute)	70 - 75
35 - 40	> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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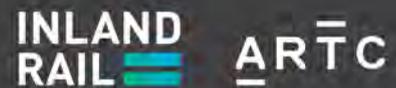
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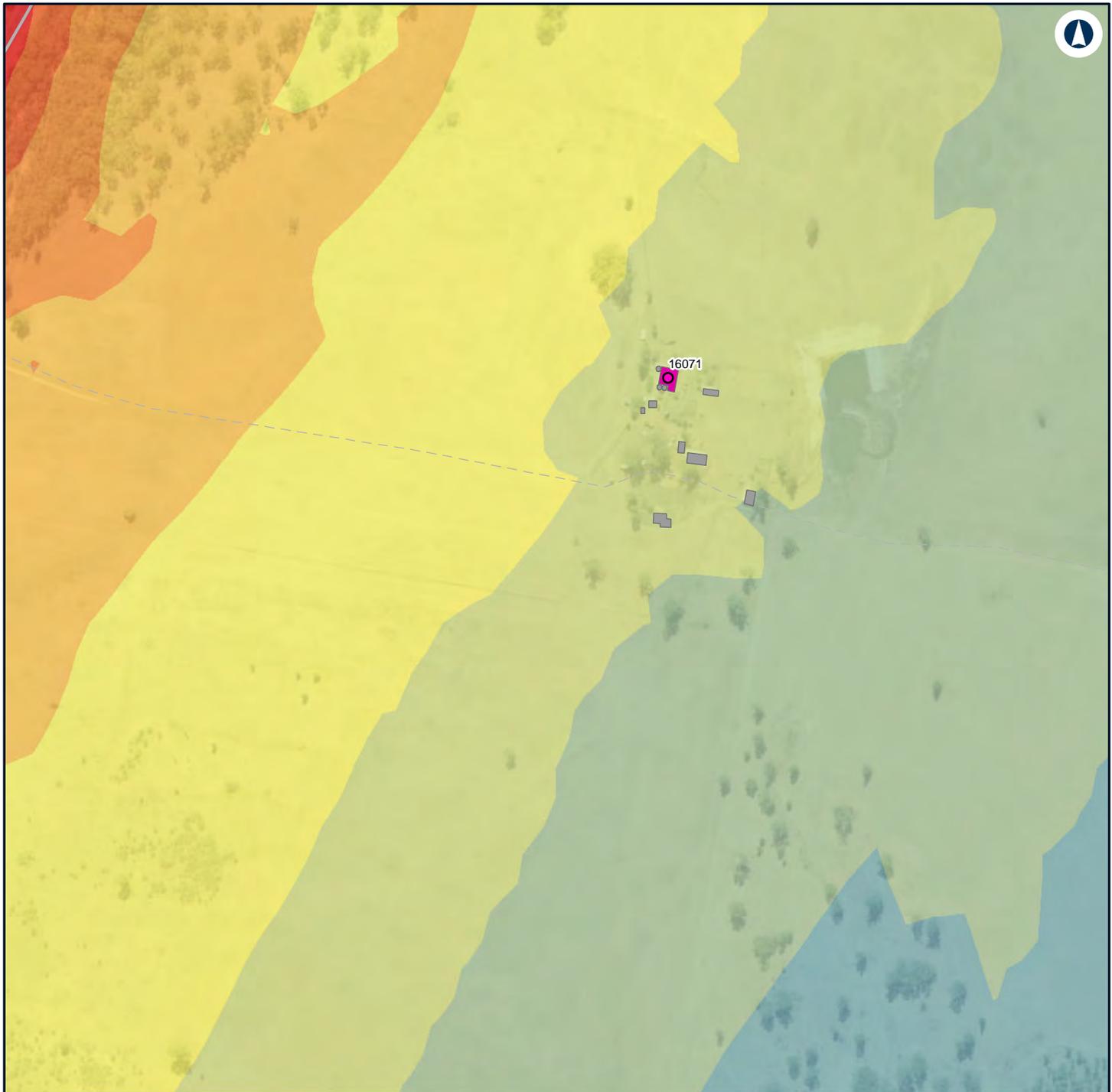
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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
■ Residential		60 - 65
Noise level (dBA L_{Aeq} 15 minute)		65 - 70
■ 35 - 40	■	70 - 75
■ 40 - 45		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



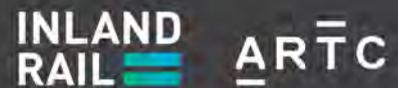
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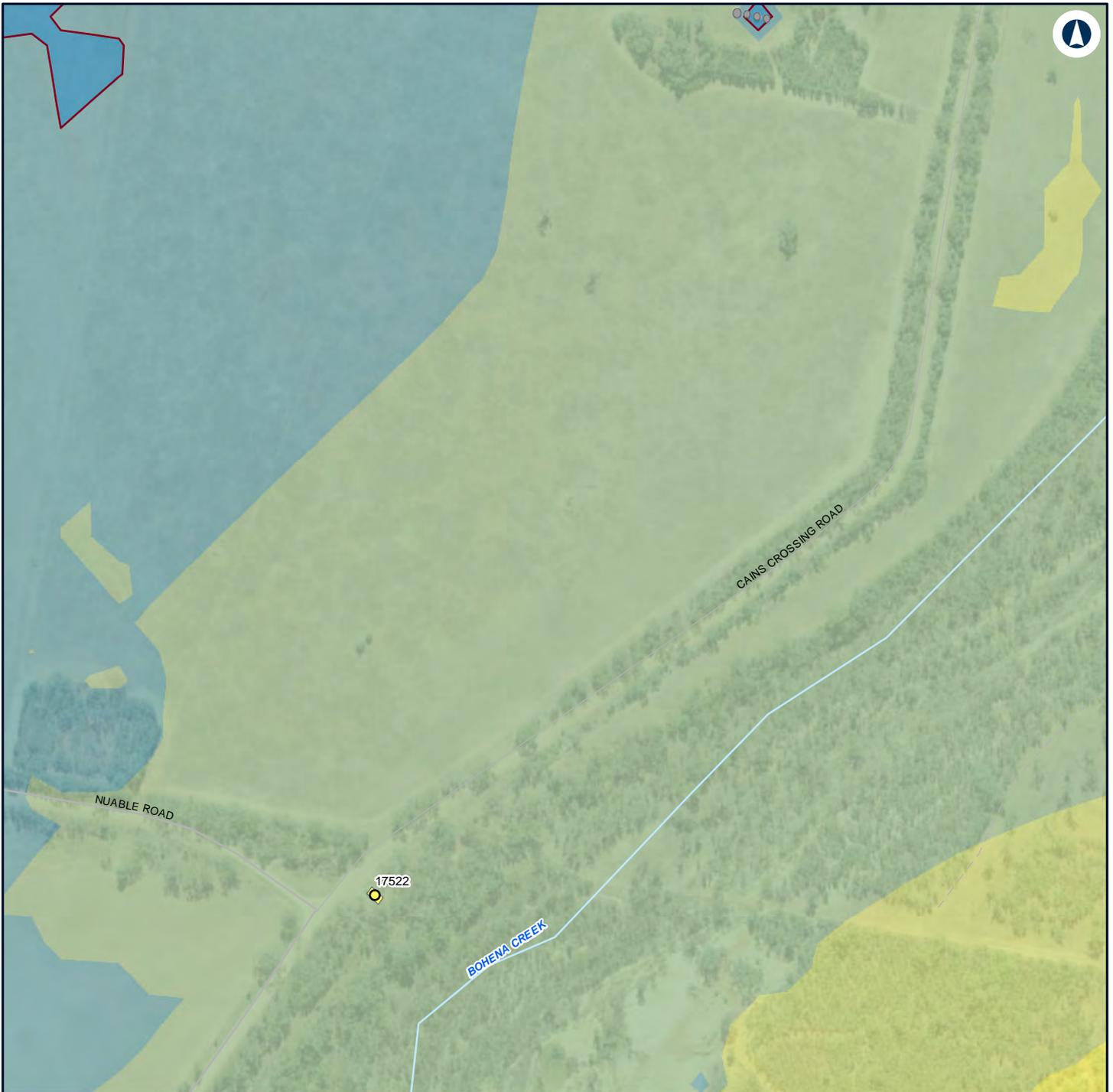
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LEGEND

Structure type

- Community
- Community
- Other

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

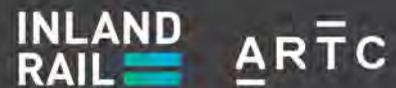
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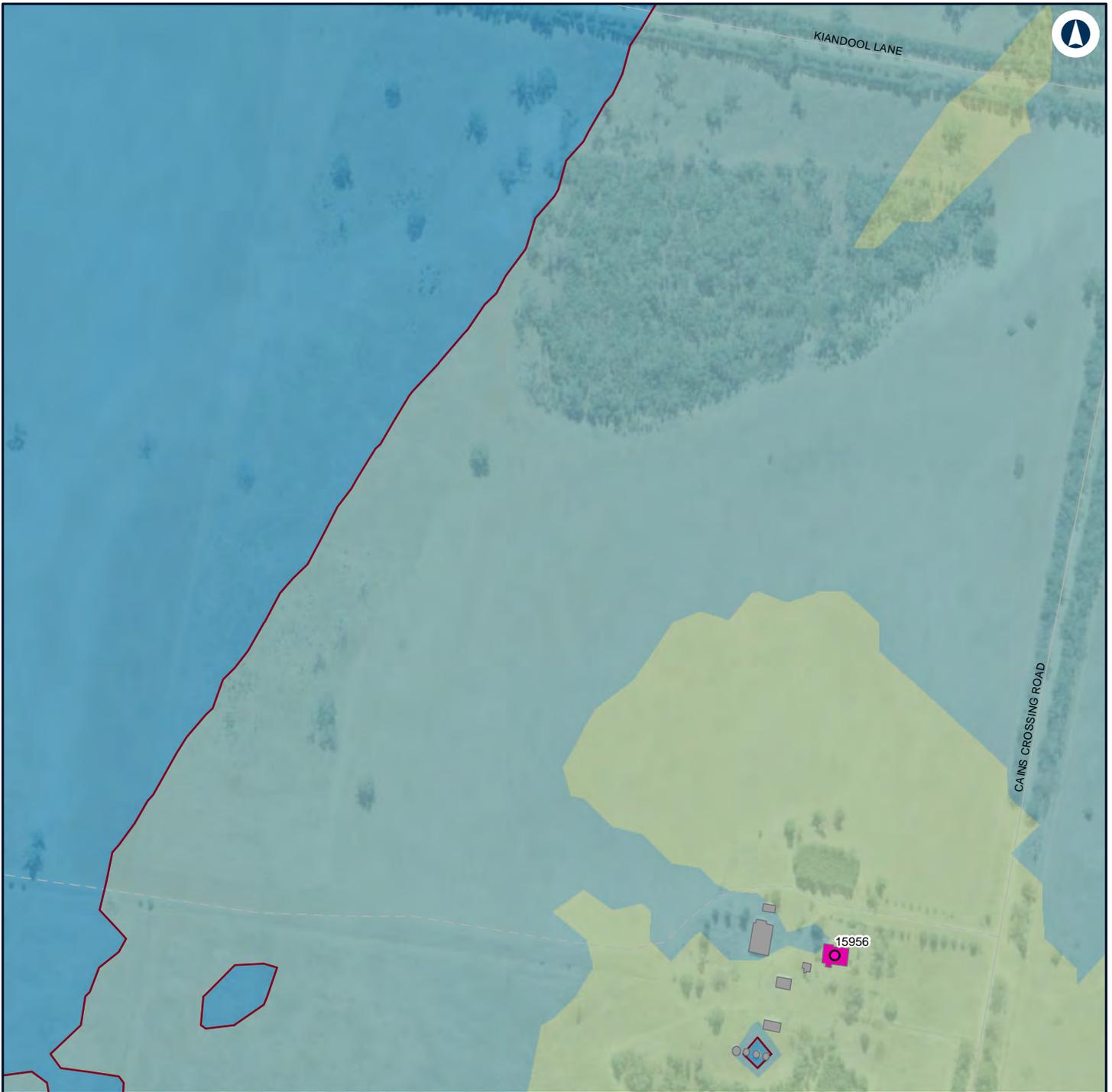
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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45



NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 232 of 298

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

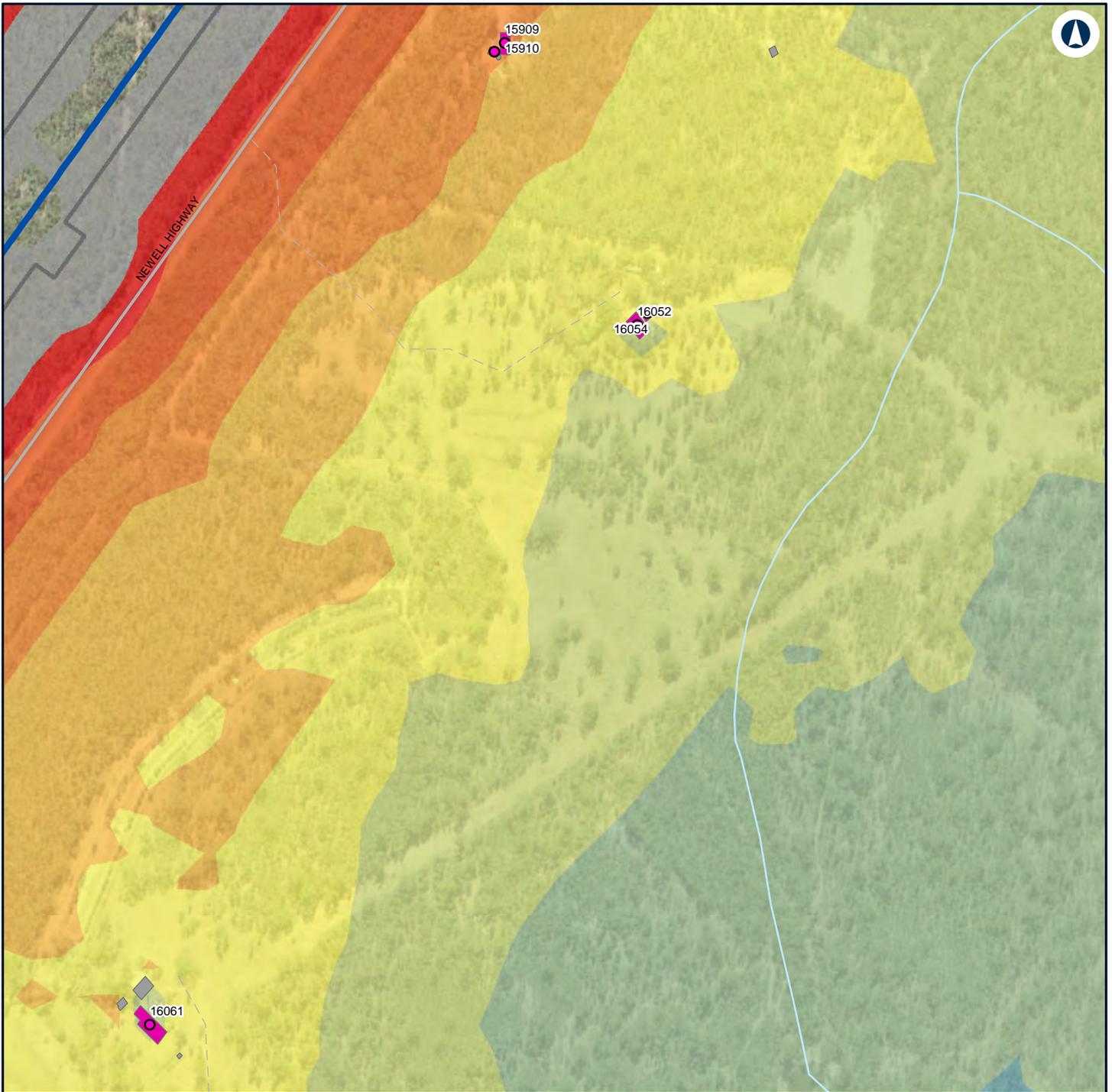
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	65 - 70	70 - 75
Structure type	35 - 40	70 - 75	> 75
Residential	40 - 45		
Other	45 - 50		
Residential	50 - 55		
Alignment	55 - 60		
	60 - 65		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

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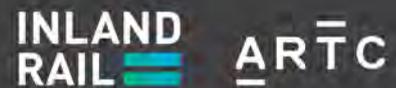
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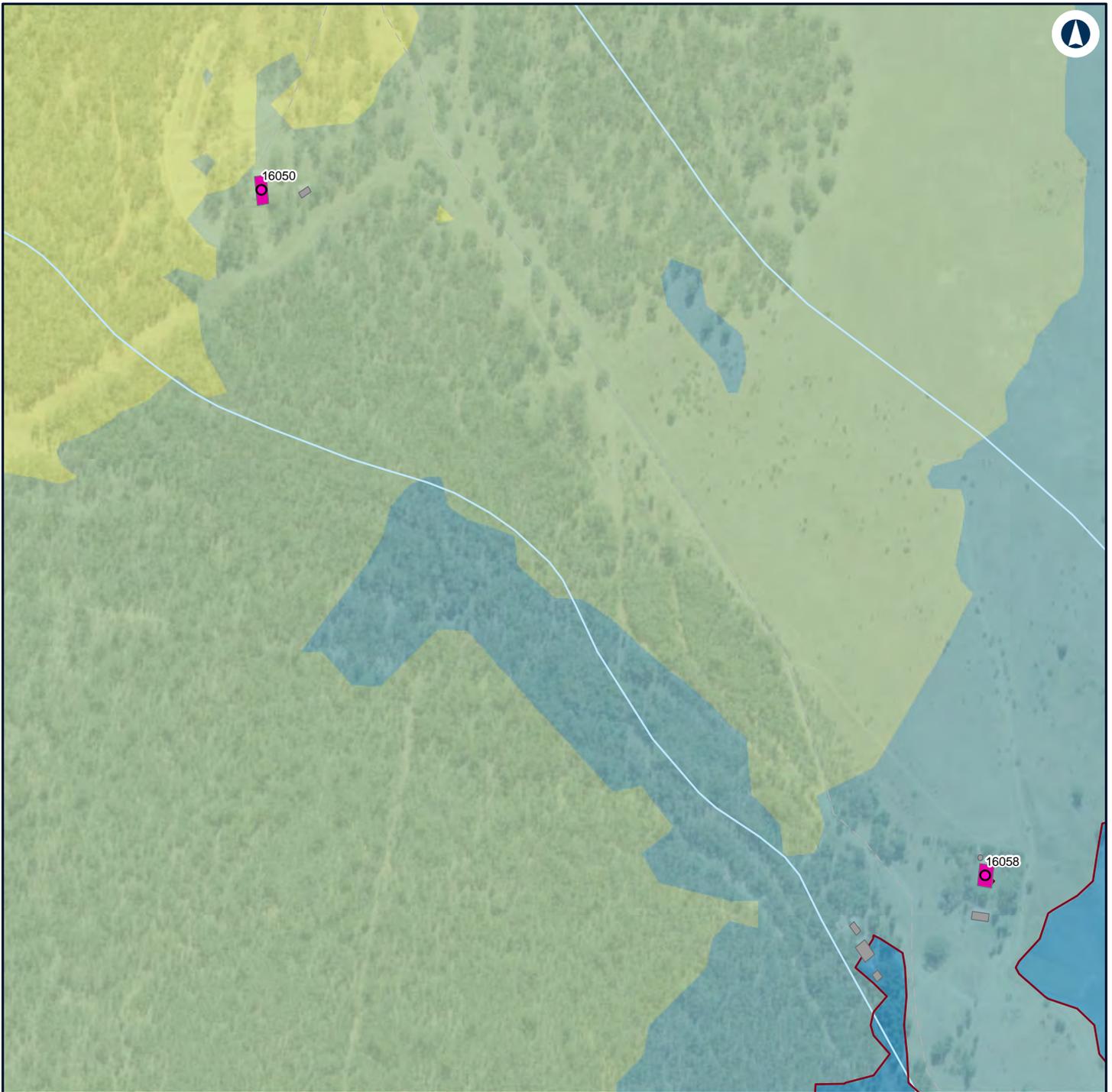
Author: GHD

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LEGEND

Structure type

- Residential
- Other
- Residential

- 35 - 40
- 40 - 45
- 45 - 50

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

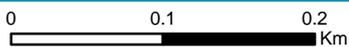
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 234 of 298



Coordinate System: GDA 1994 MGA Zone 55

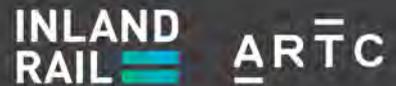
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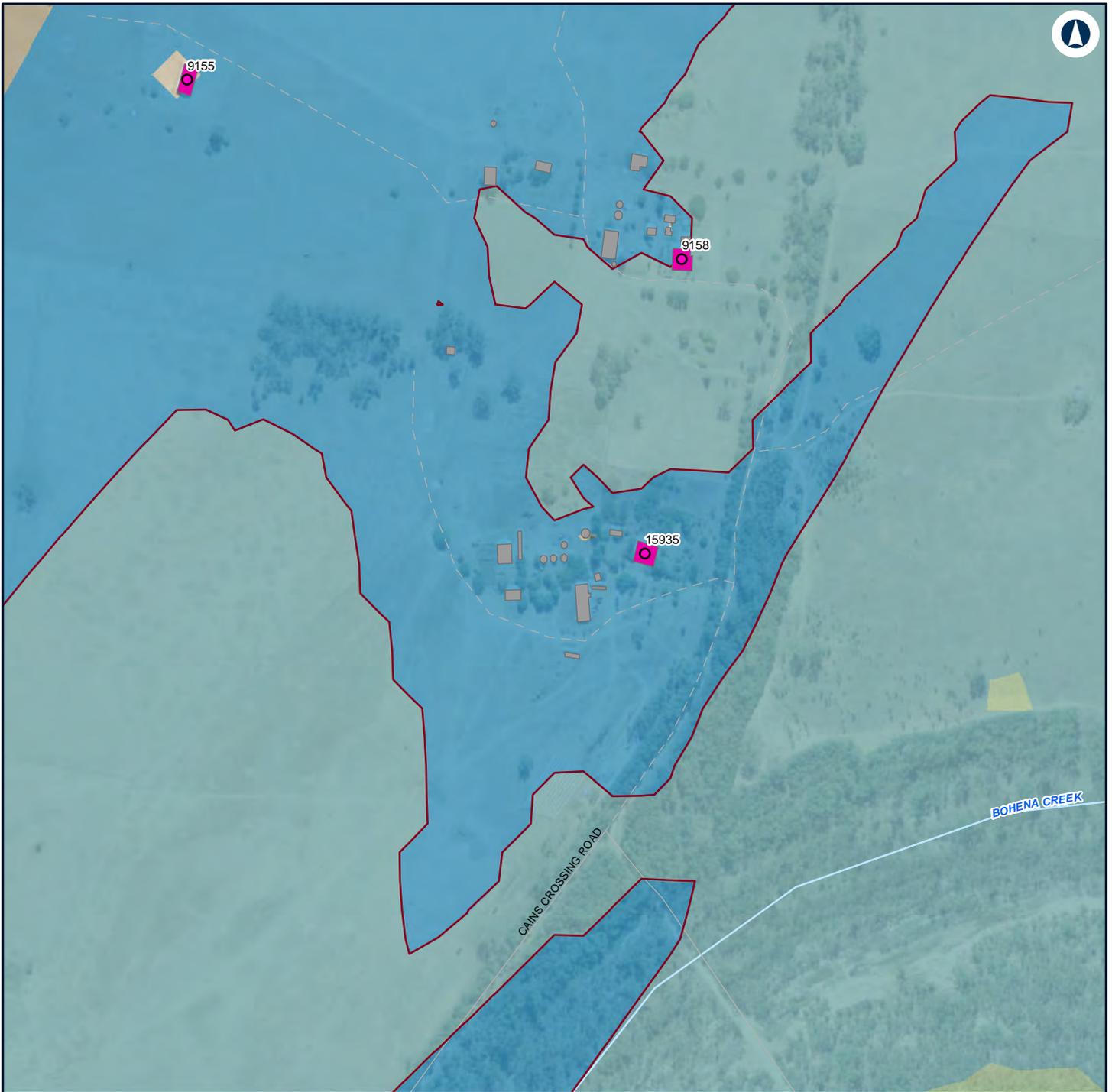
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LEGEND

Structure type

- Residential
- Other
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

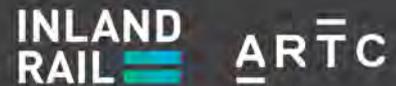
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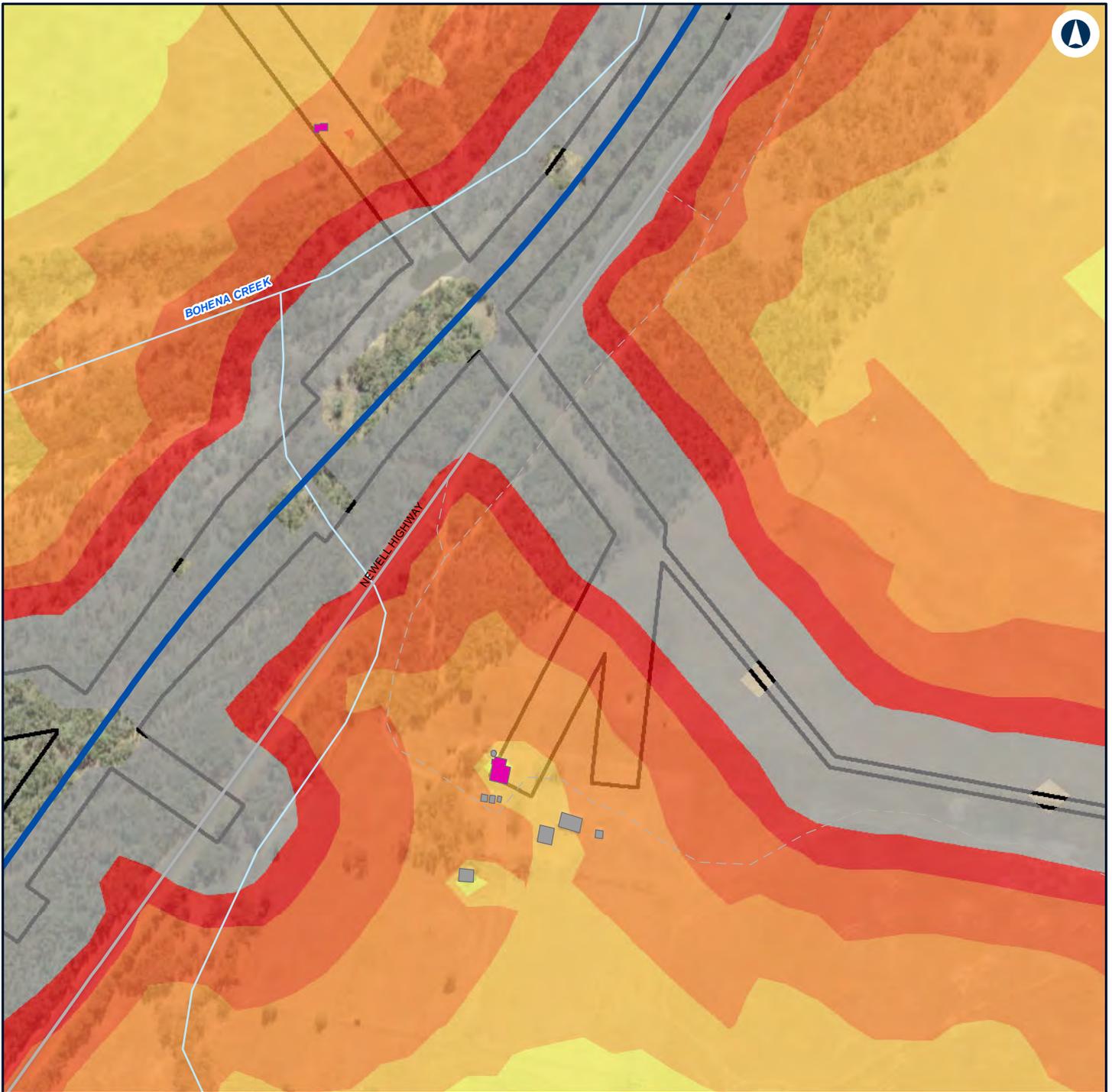
Date: 16/07/2020
 Author: GHD

Paper: A4
 Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Construction footprint
- Other
- Residential
- Alignment
- Noise level (dBA L_{Aeq} 15 minute) 45 - 50
- Noise level (dBA L_{Aeq} 15 minute) 50 - 55
- Noise level (dBA L_{Aeq} 15 minute) 55 - 60
- Noise level (dBA L_{Aeq} 15 minute) 60 - 65
- Noise level (dBA L_{Aeq} 15 minute) 65 - 70
- Noise level (dBA L_{Aeq} 15 minute) 70 - 75
- Noise level (dBA L_{Aeq} 15 minute) > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenarion RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

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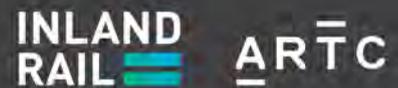
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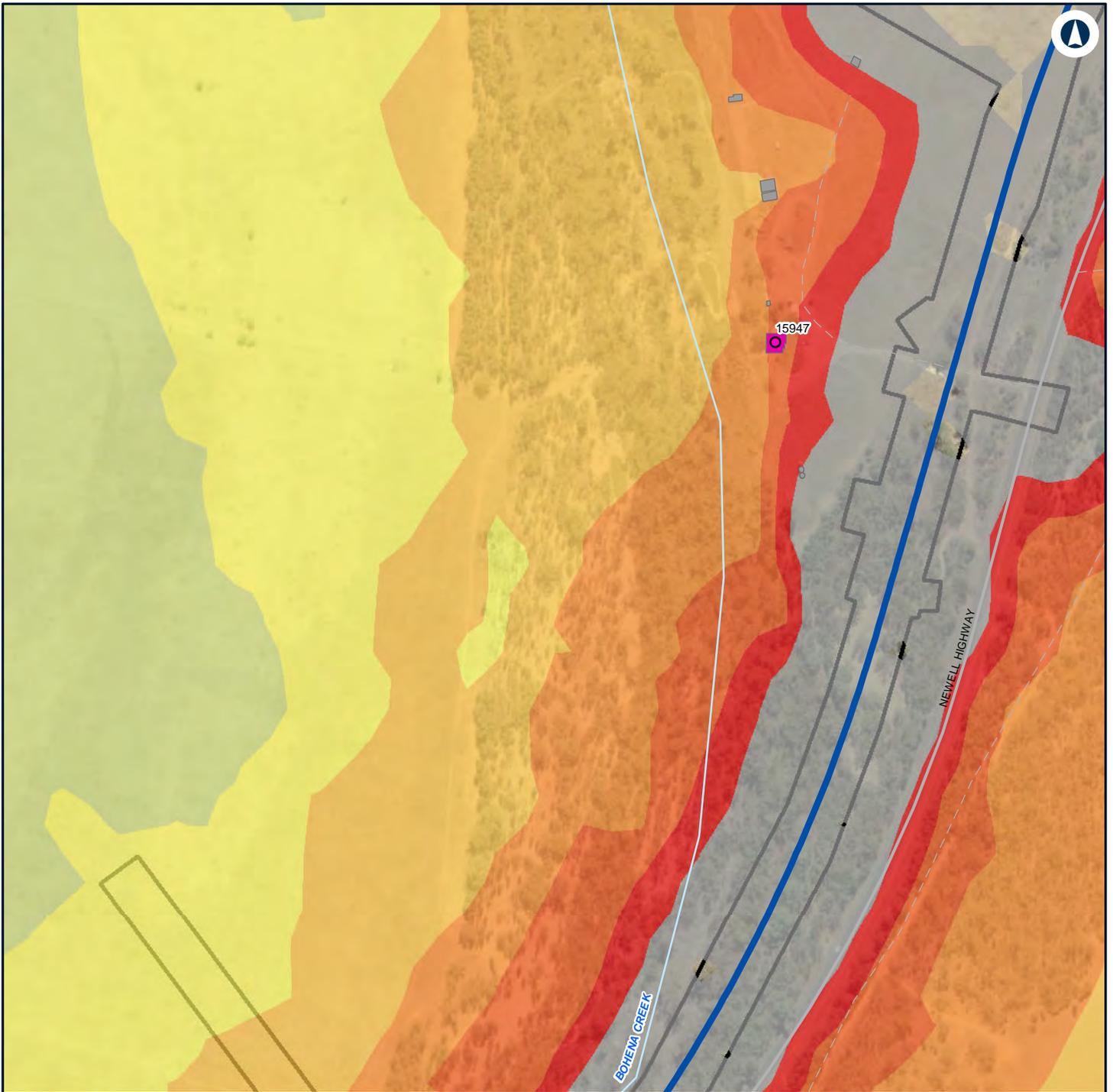
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

	Construction footprint		Noise level (dBA L _{Aeq} 15 minute) > 75
	Residential		45 - 50
	Other		50 - 55
	Residential		55 - 60
	Alignment		60 - 65
			65 - 70
			70 - 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 237 of 298



Coordinate System: GDA 1994 MGA Zone 55

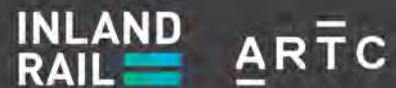
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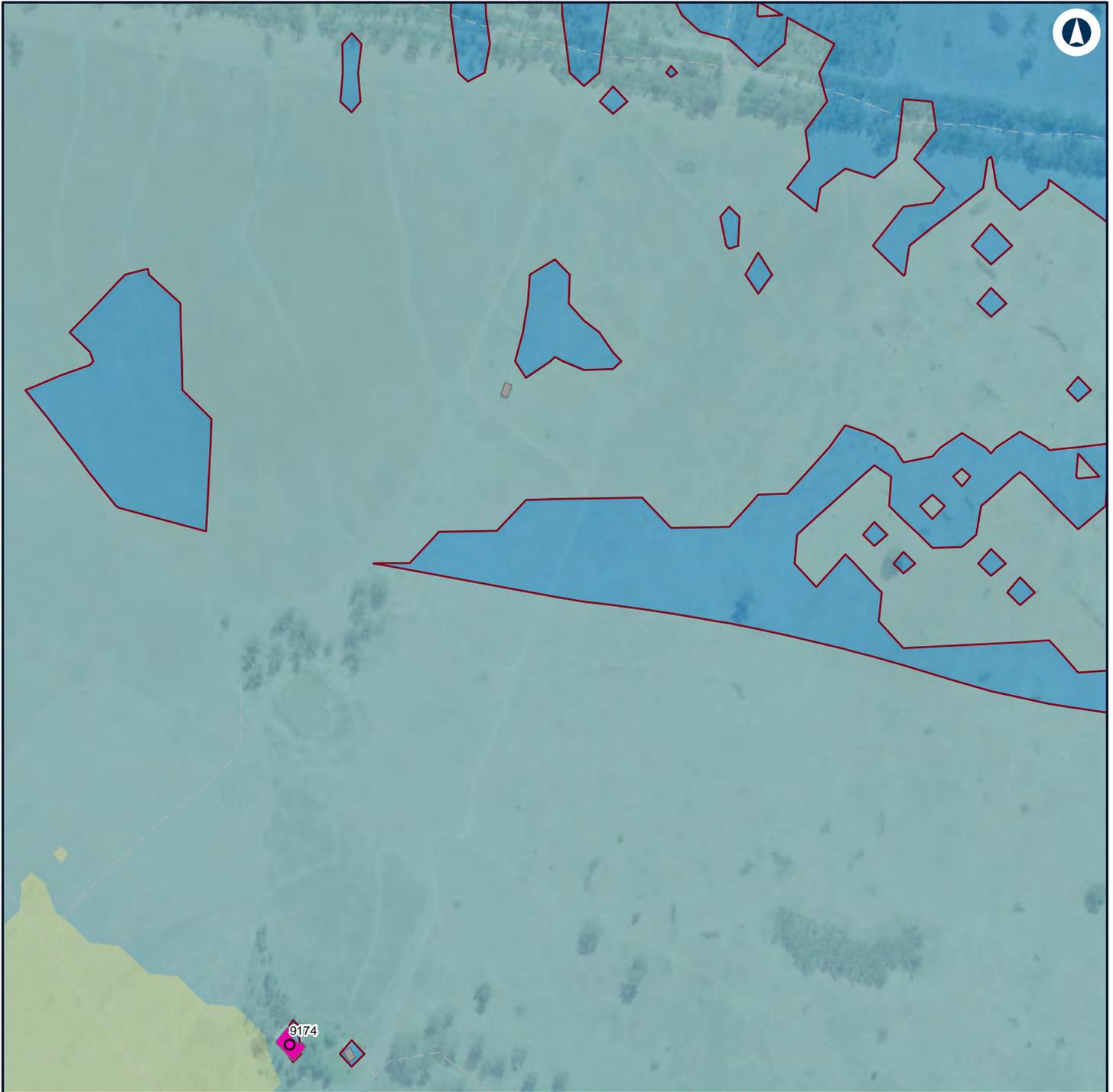
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Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

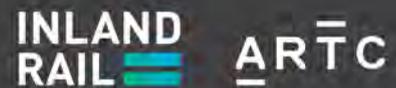


Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
- Noise level (dBA L_{Aeq} 15 minute)**
- 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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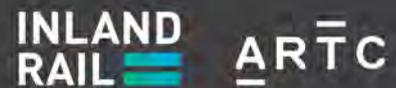


Coordinate System: GDA 1994 MGA Zone 55

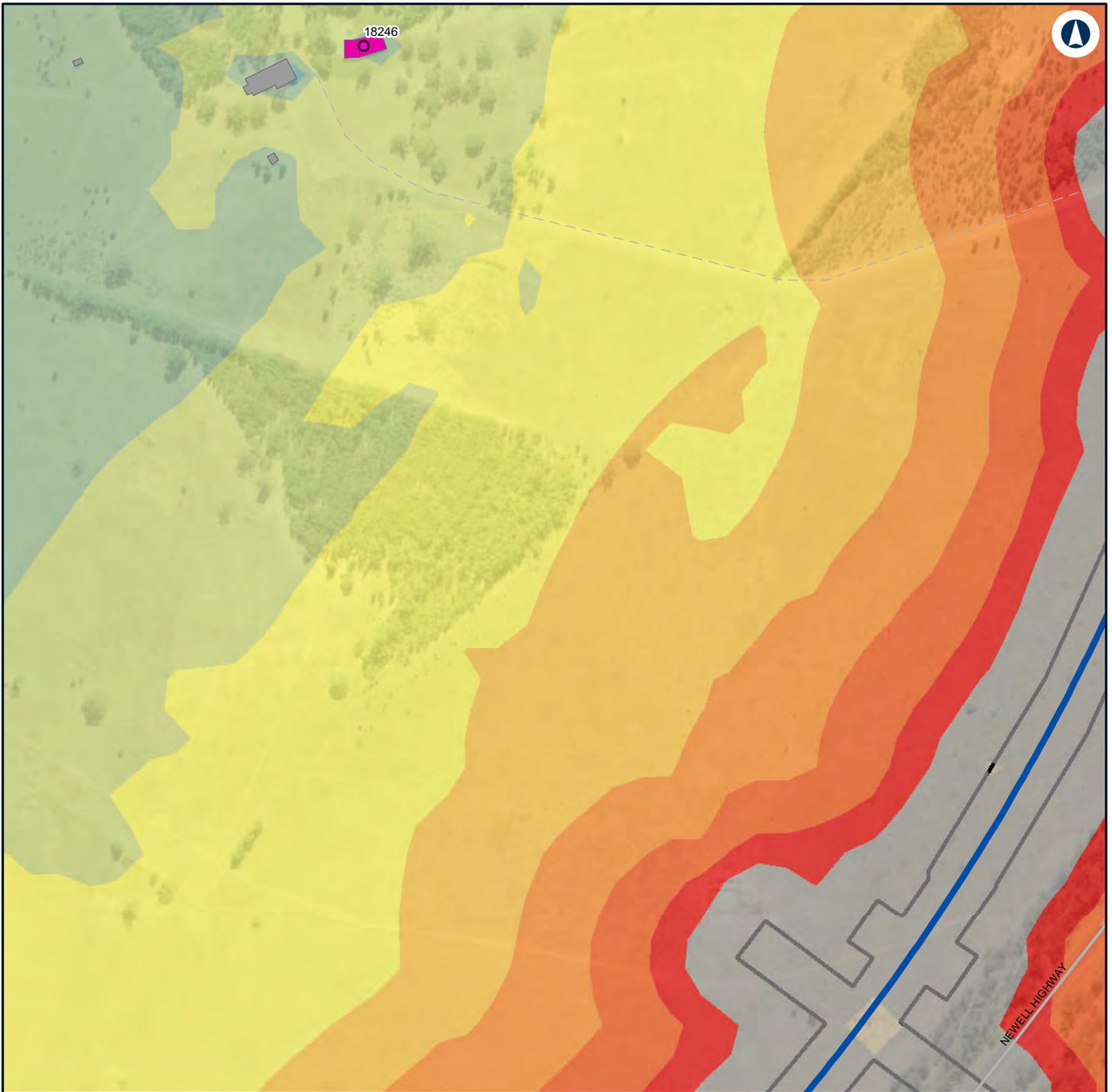
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	65 - 70
Structure type	35 - 40	70 - 75
Residential	40 - 45	> 75
Other	45 - 50	
Residential	50 - 55	
Alignment	55 - 60	
	60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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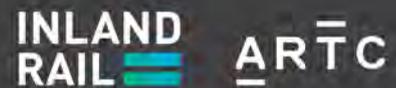
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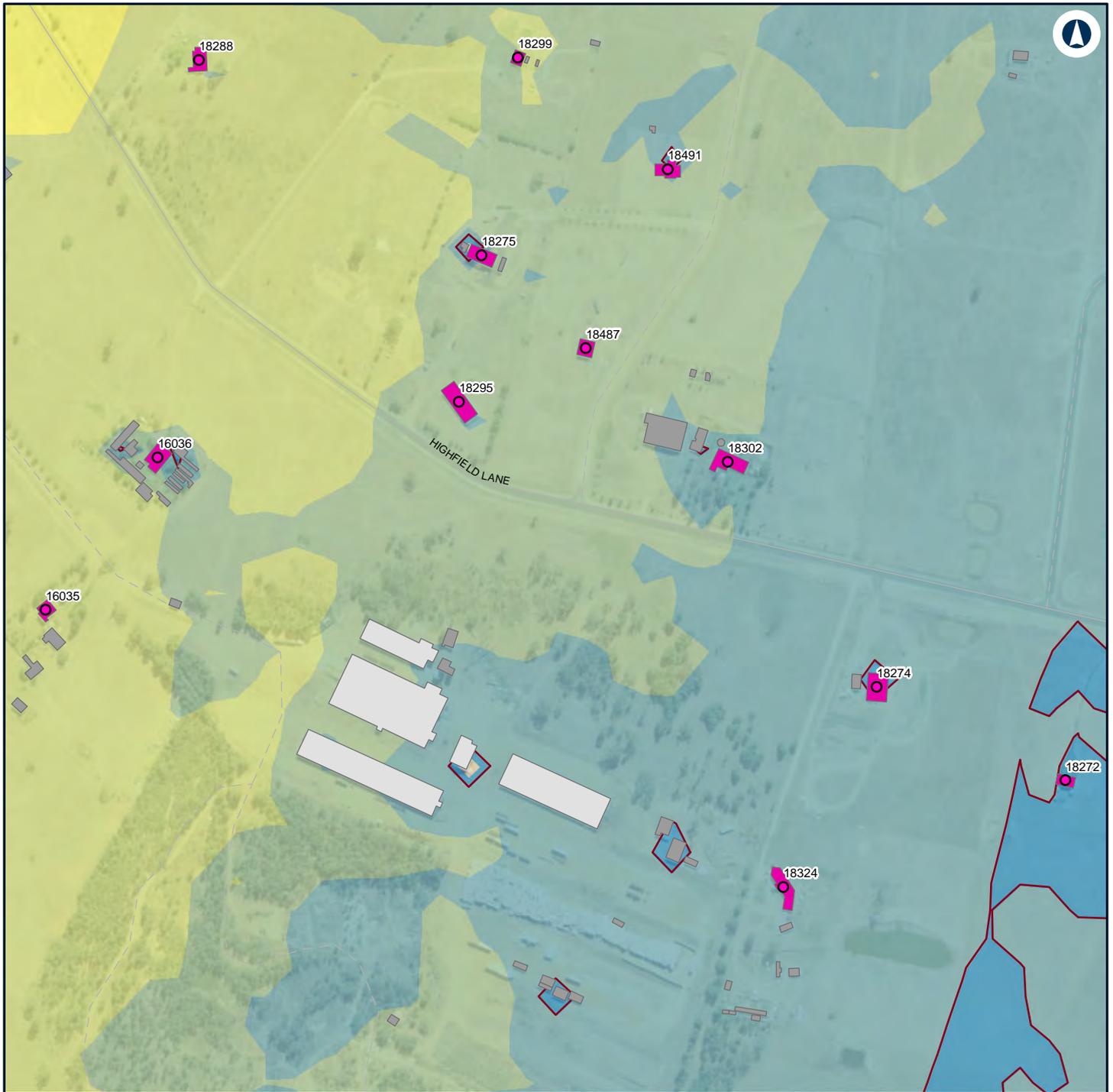
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

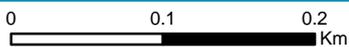
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

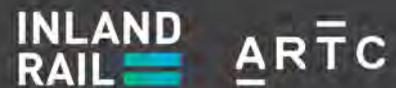
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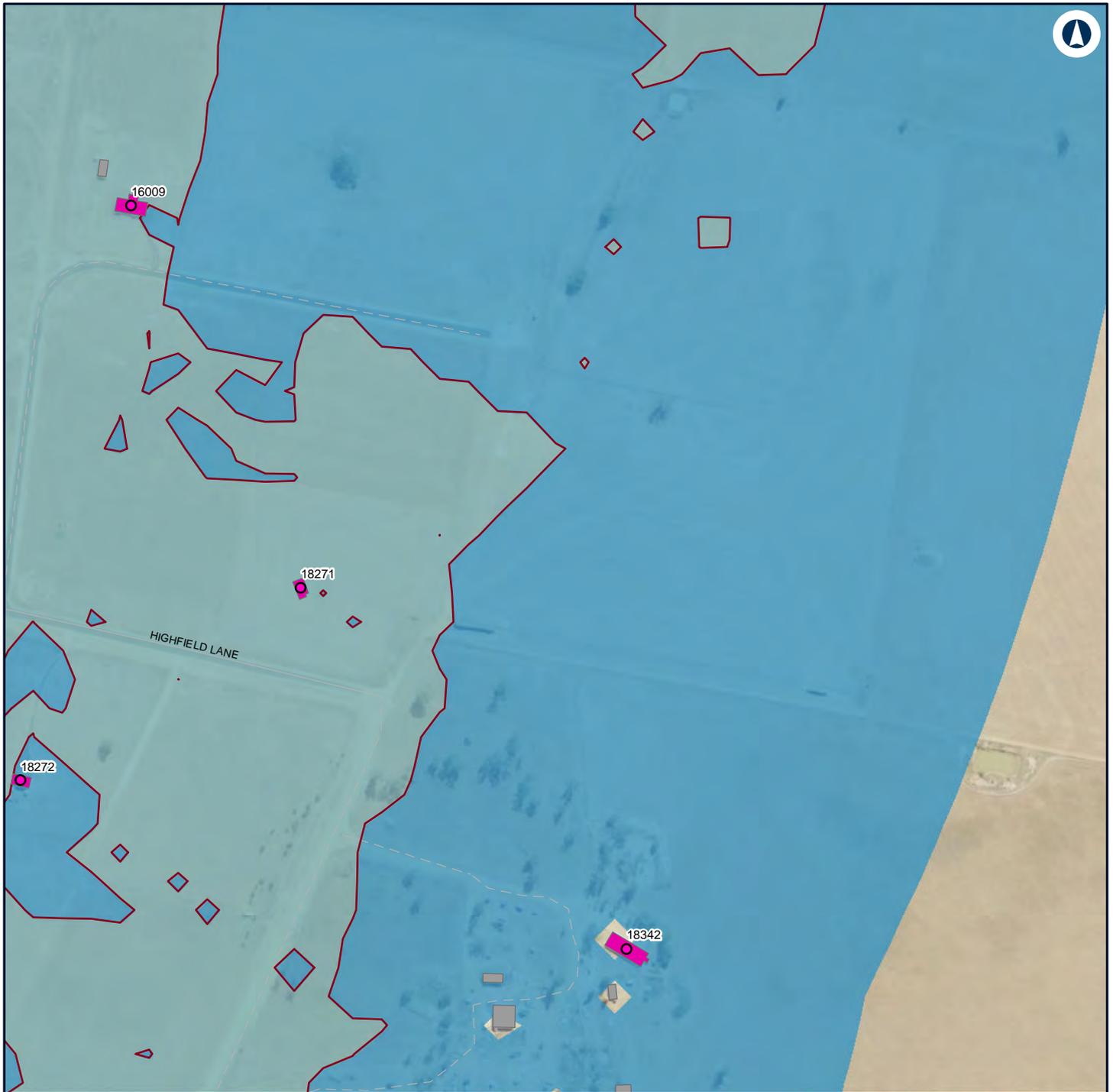
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

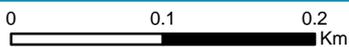
35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

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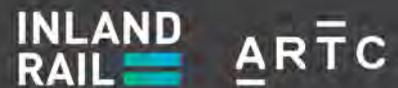
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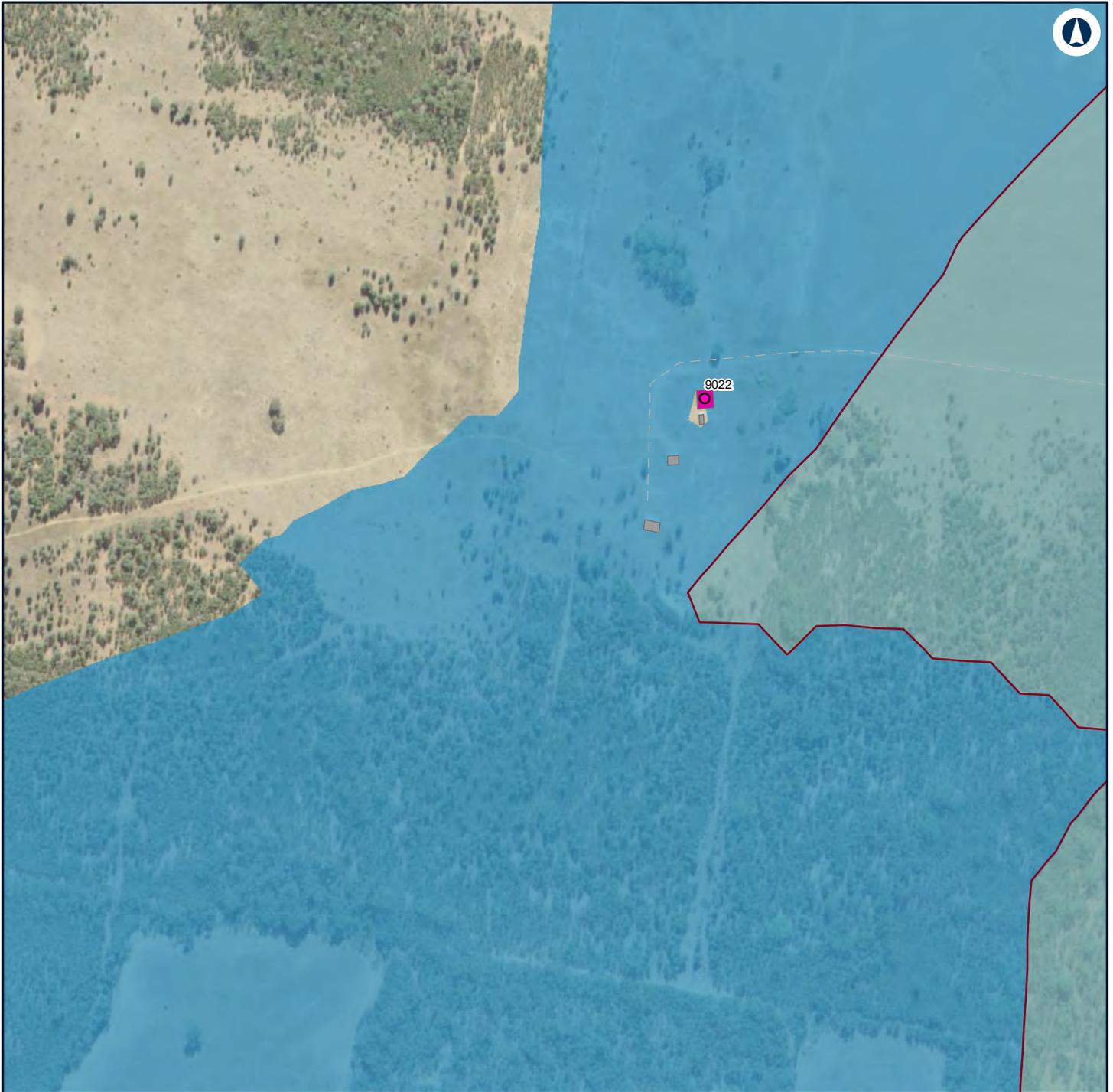
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 243 of 298



Coordinate System: GDA 1994 MGA Zone 55

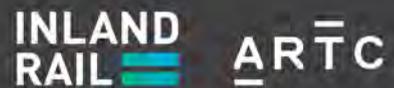
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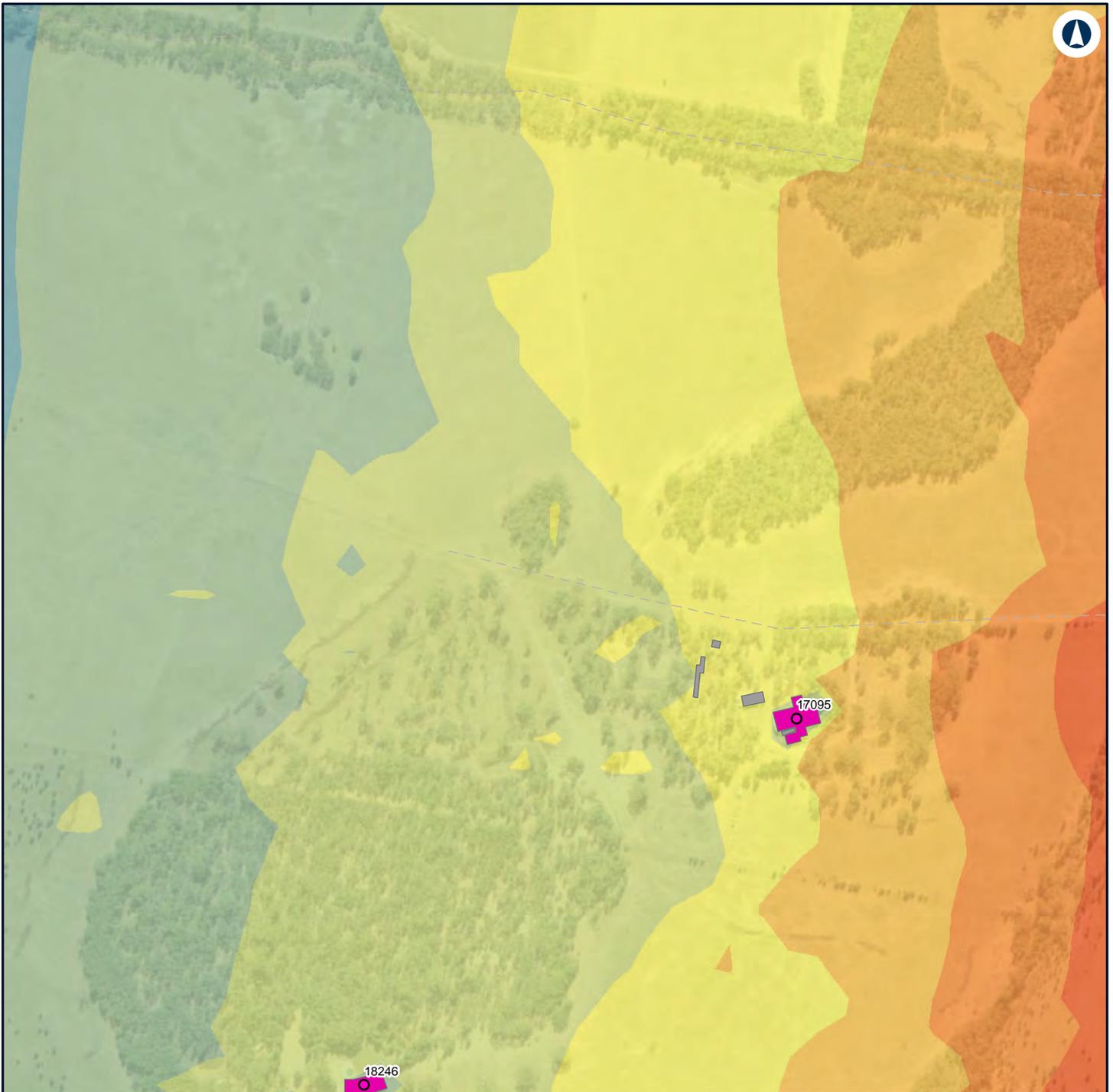
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Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
■ Residential		60 - 65
Noise level (dBA L_{Aeq} 15 minute)		65 - 70
■	35 - 40	
■	40 - 45	



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

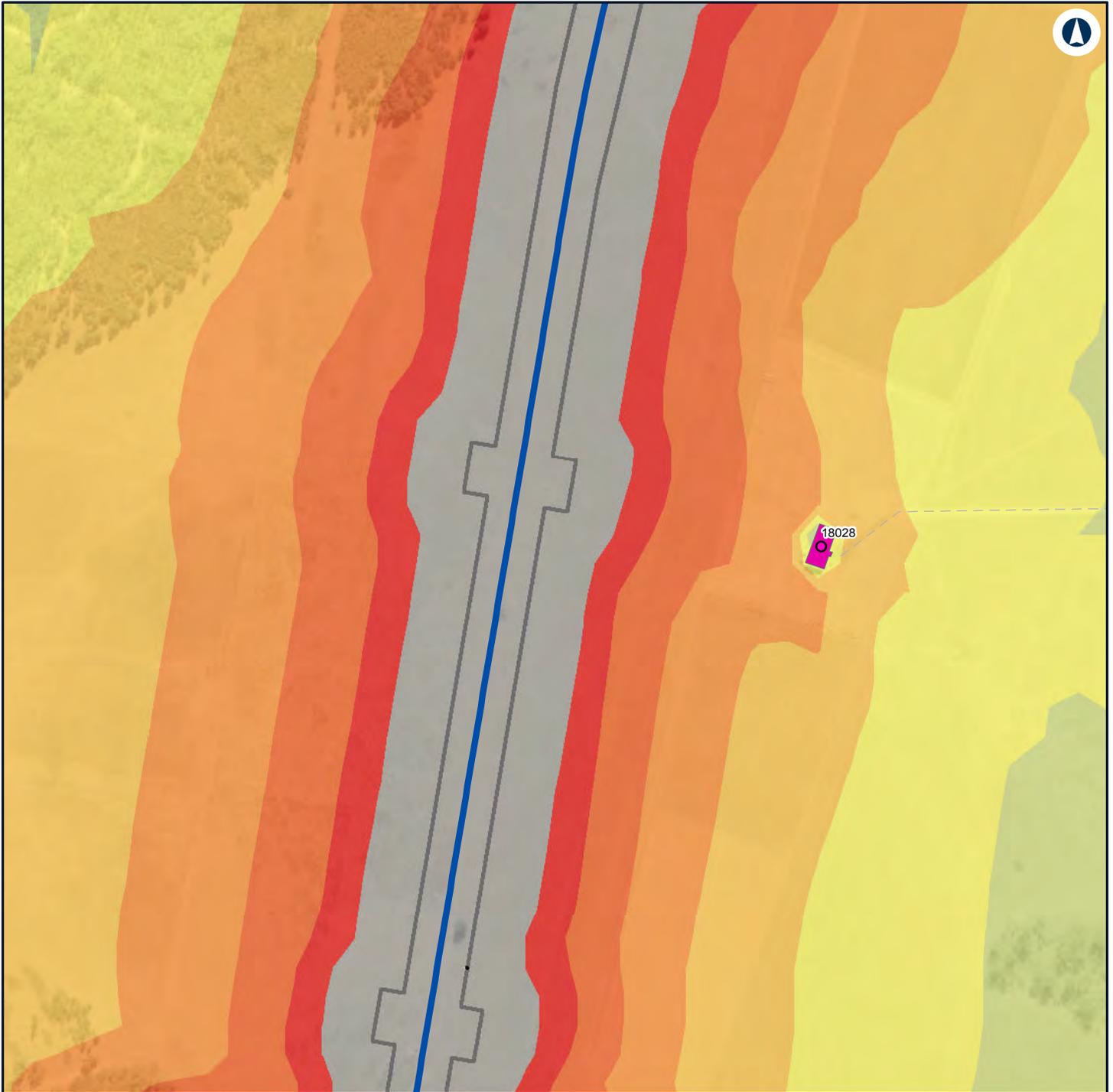
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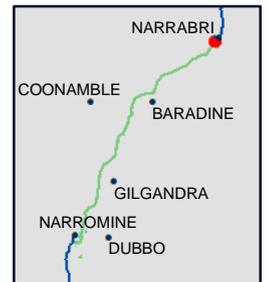
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LEGEND

	Construction footprint		45 - 50
	Structure type		50 - 55
	Residential		55 - 60
	Residential		60 - 65
	Alignment		65 - 70
	Noise level (dBA L _{Aeq} 15 minute)		70 - 75
			> 75
			40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

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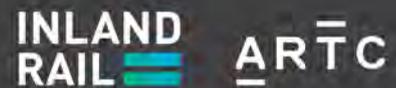
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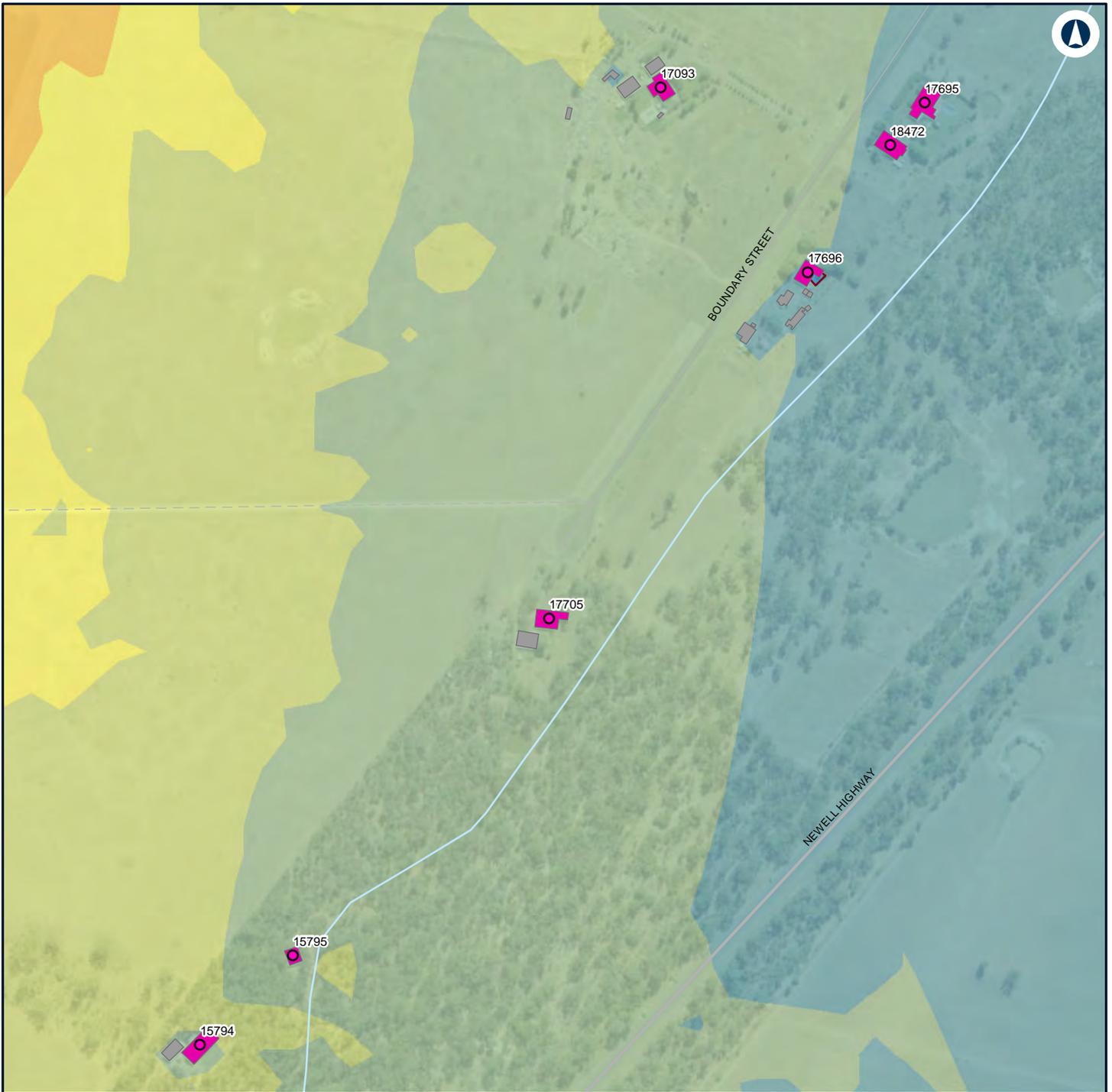
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

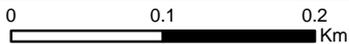


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LEGEND

Structure type		35 - 40
● Residential		40 - 45
■ Other		45 - 50
● Residential		50 - 55
— Night-time noise management level		55 - 60
Noise level (dBA L_{Aeq} 15 minute)		
■ 30 - 35		

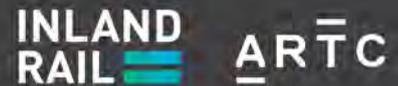


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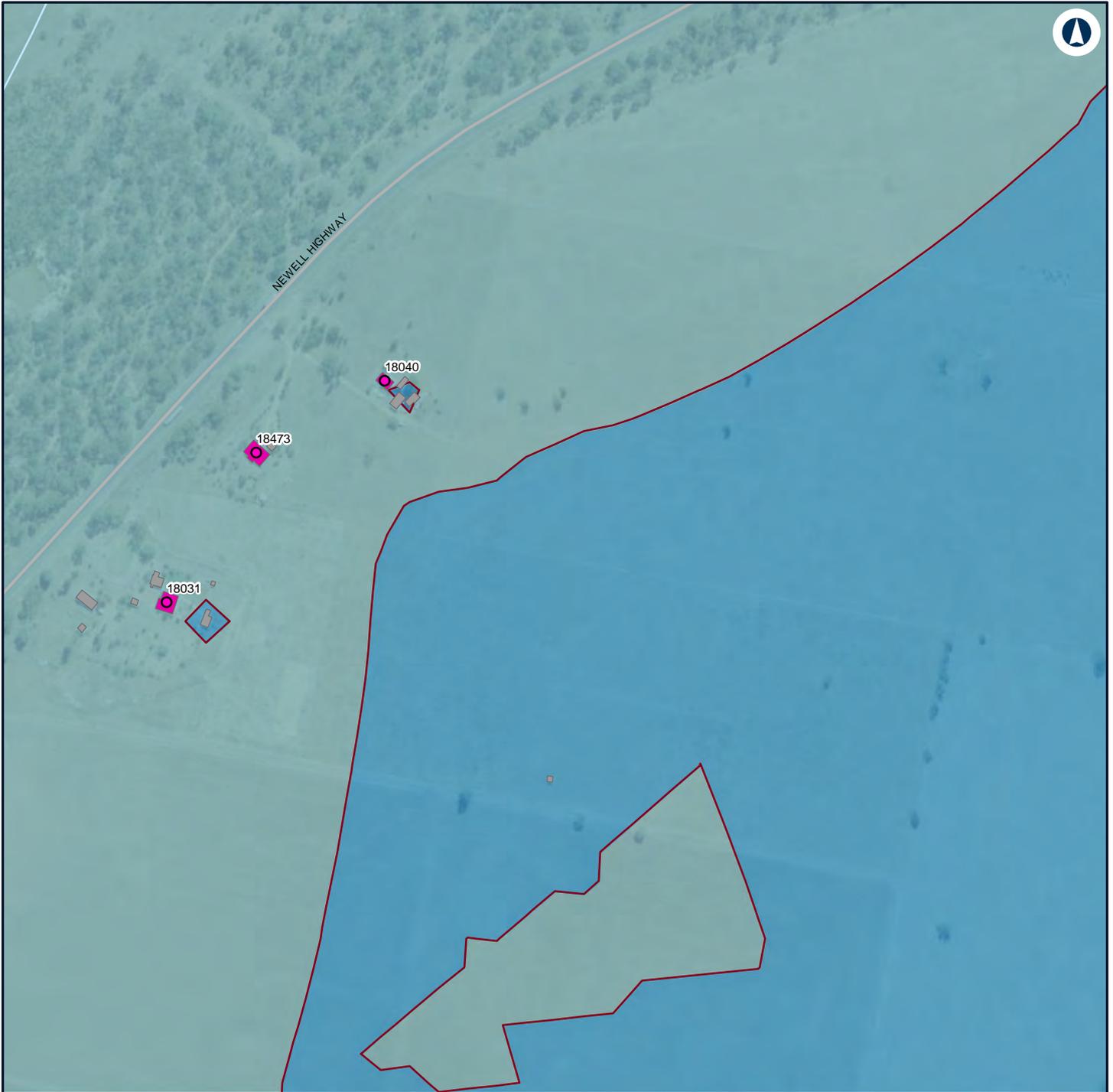
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LEGEND

Structure type

- Residential
- Other
- Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

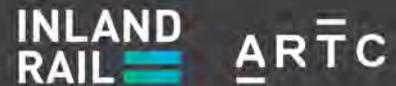
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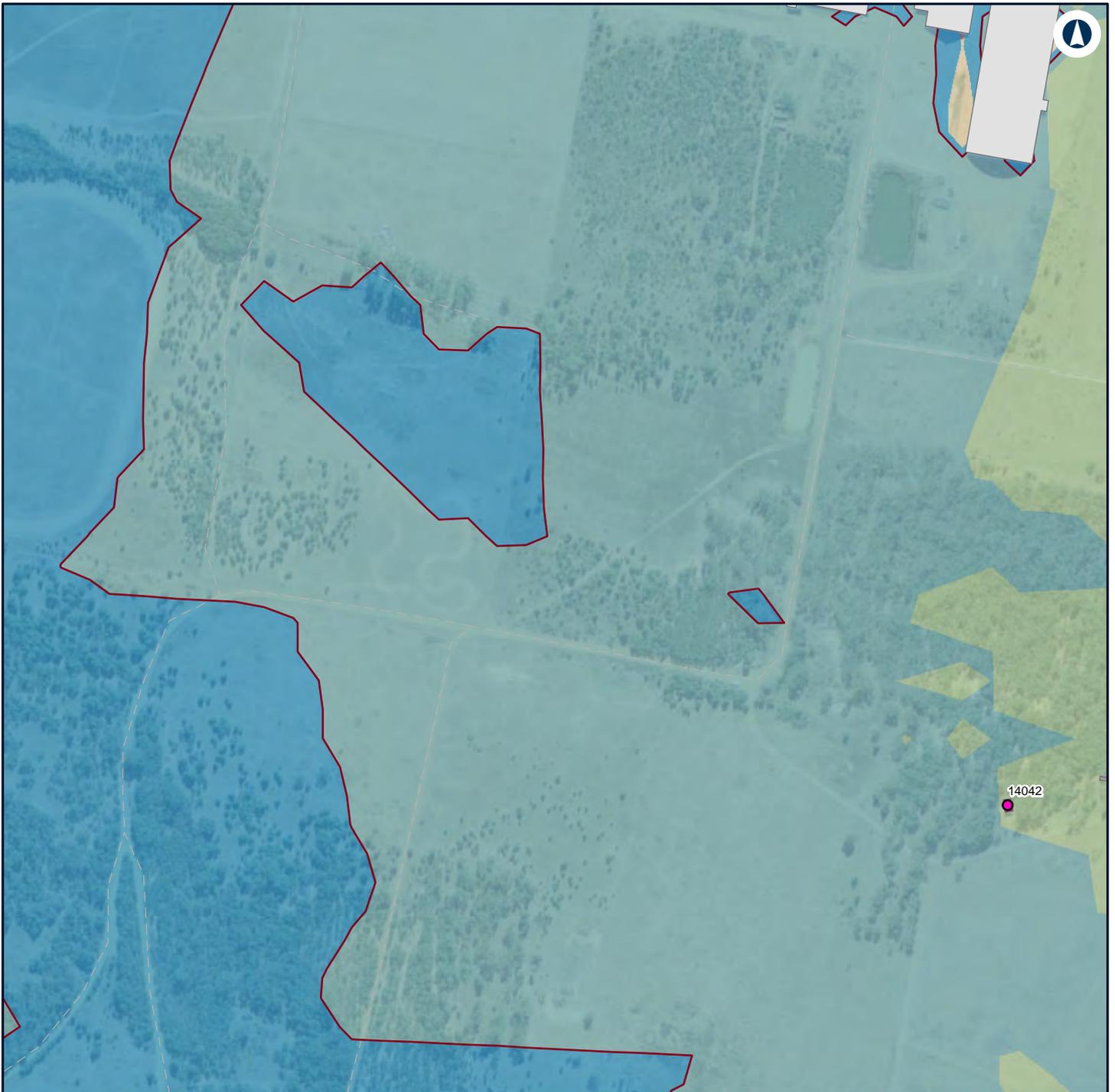
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

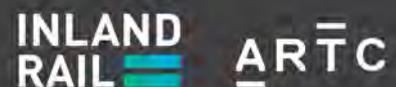


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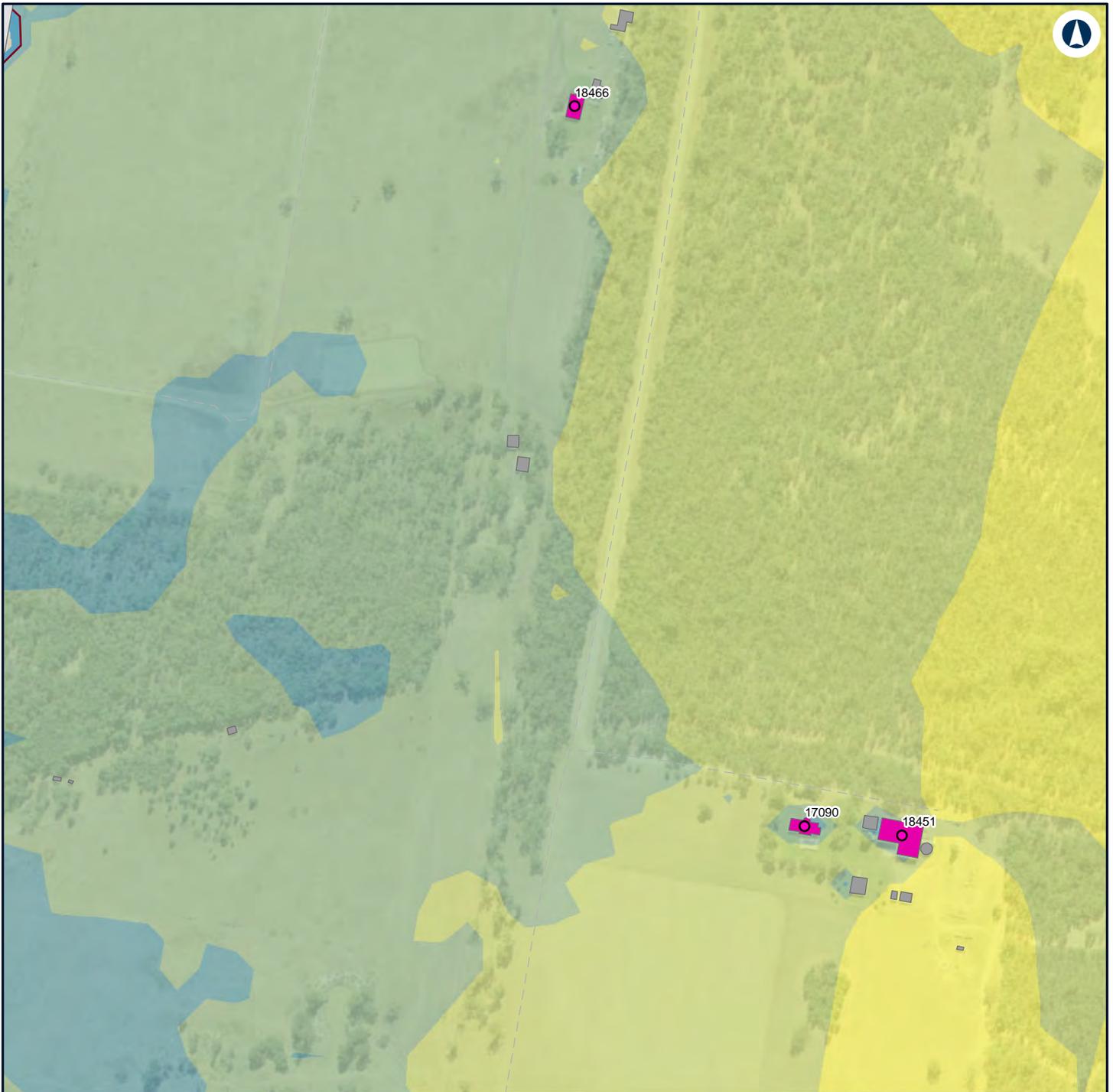
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

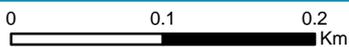
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

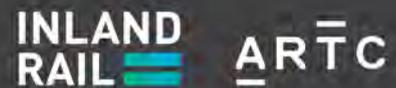


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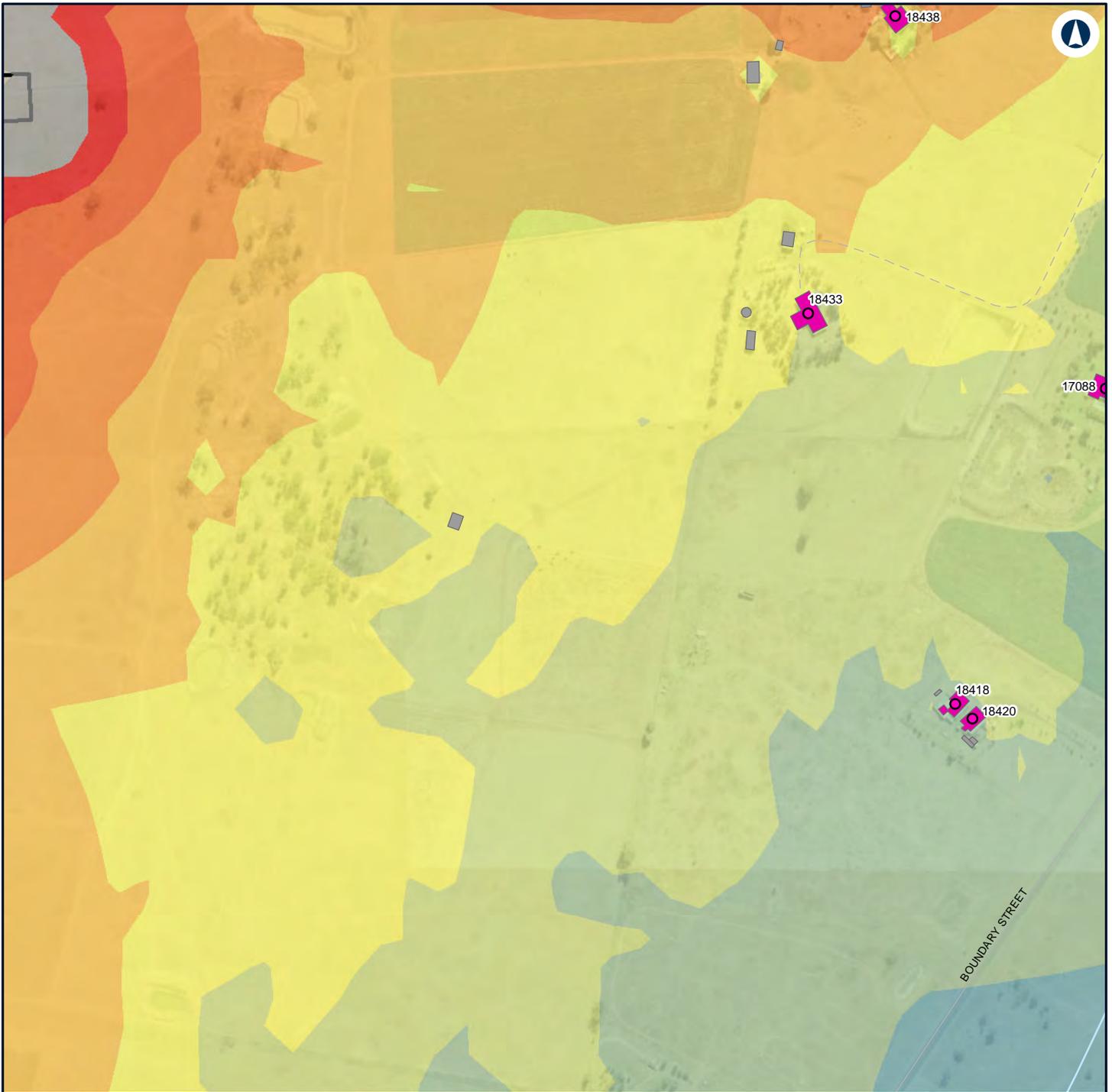
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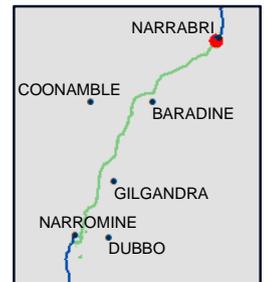


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LEGEND

Construction footprint	40 - 45	> 75
Structure type	45 - 50	
Residential	50 - 55	
Other	55 - 60	
Residential	60 - 65	
Noise level (dBA L_{Aeq} 15 minute)	65 - 70	
35 - 40	70 - 75	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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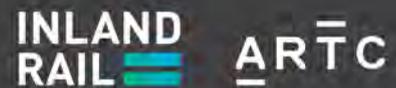


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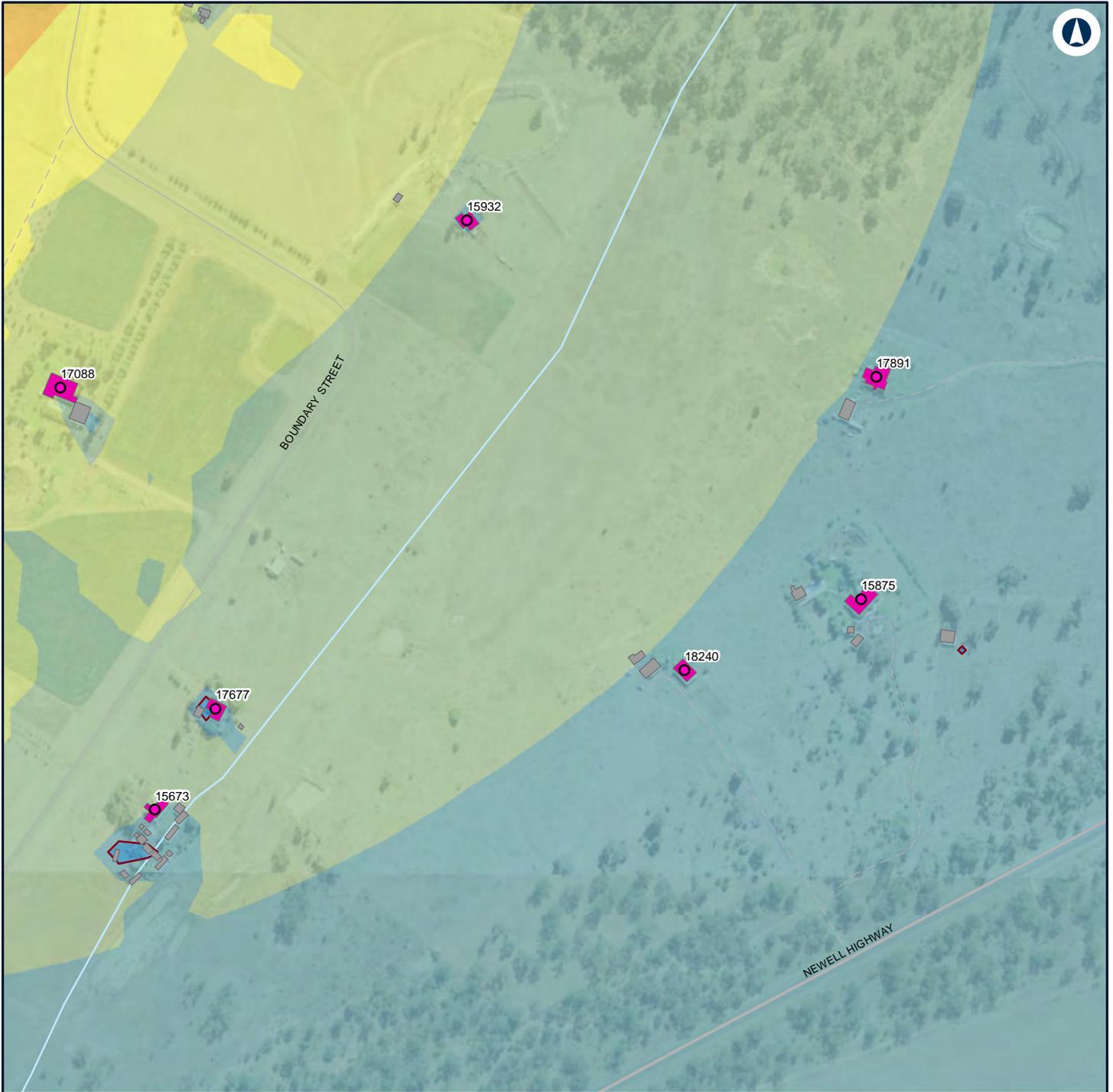
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LEGEND

Structure type

-  Residential
-  Other
-  Residential
-  Night-time noise management level

-  35 - 40
-  40 - 45
-  45 - 50
-  50 - 55
-  55 - 60

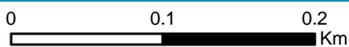
Noise level (dBA L_{Aeq} 15 minute)

-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

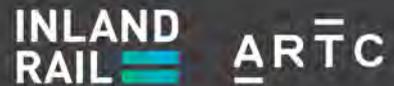
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Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- | | |
|-------------------------|--|
| Structure type | — Night-time noise management level |
| ● Community | Noise level (dBA L_{Aeq} 15 minute) |
| ● Residential | 30 - 35 |
| ■ Commercial/Industrial | 35 - 40 |
| ■ Community | |
| ■ Other | |
| ■ Residential | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

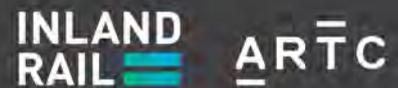


Coordinate System: GDA 1994 MGA Zone 55

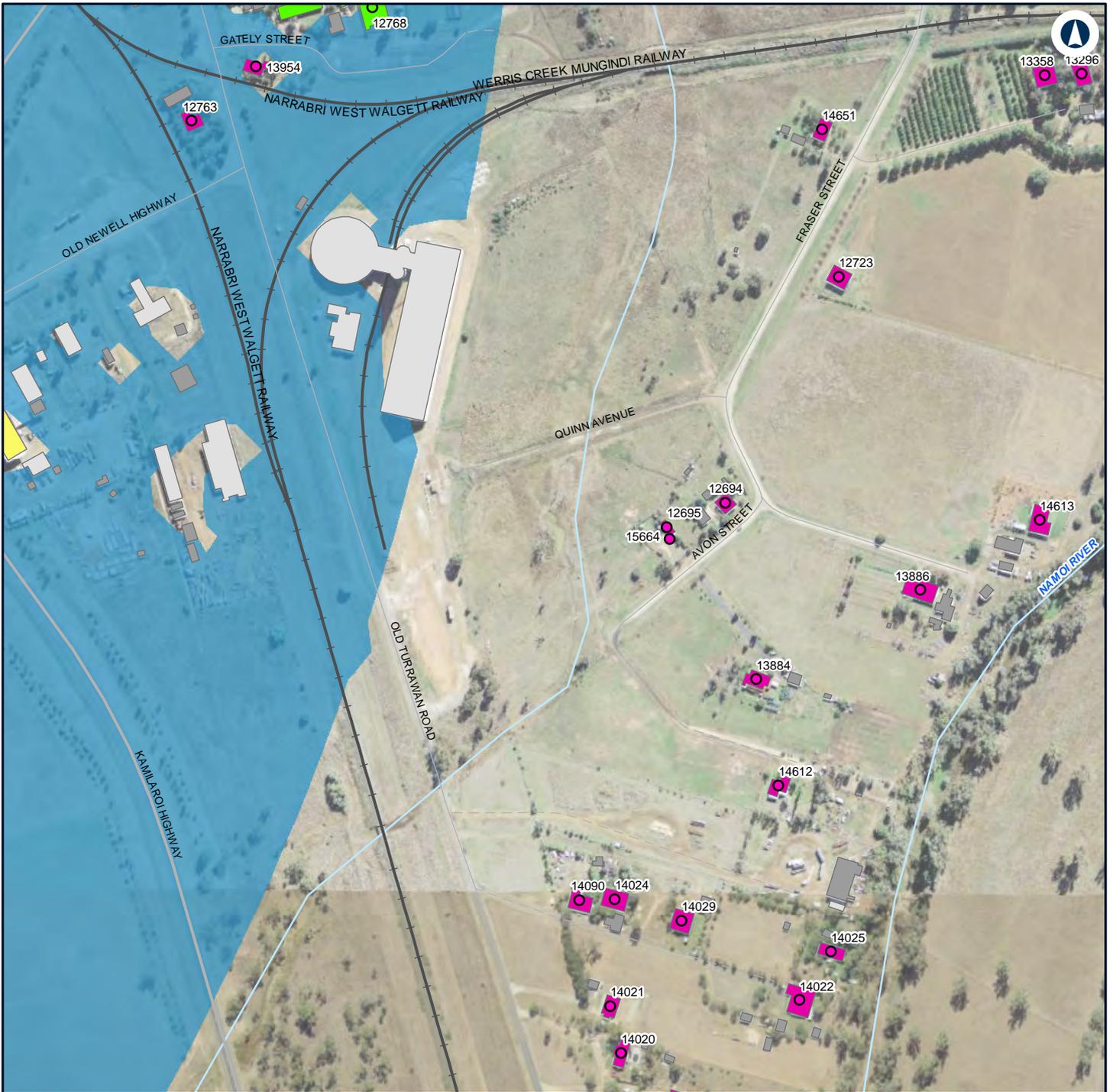
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LEGEND

- | | |
|-----------------------|--|
| Structure type | Residential |
| Educational | Noise level (dBA L_{Aeq} 15 minute) |
| Residential | 30 - 35 |
| Commercial/Industrial | |
| Community | |
| Educational | |
| Other | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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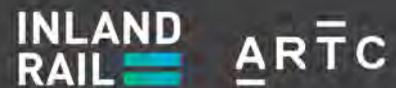


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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

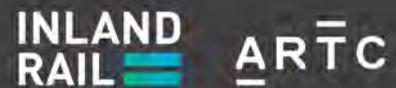
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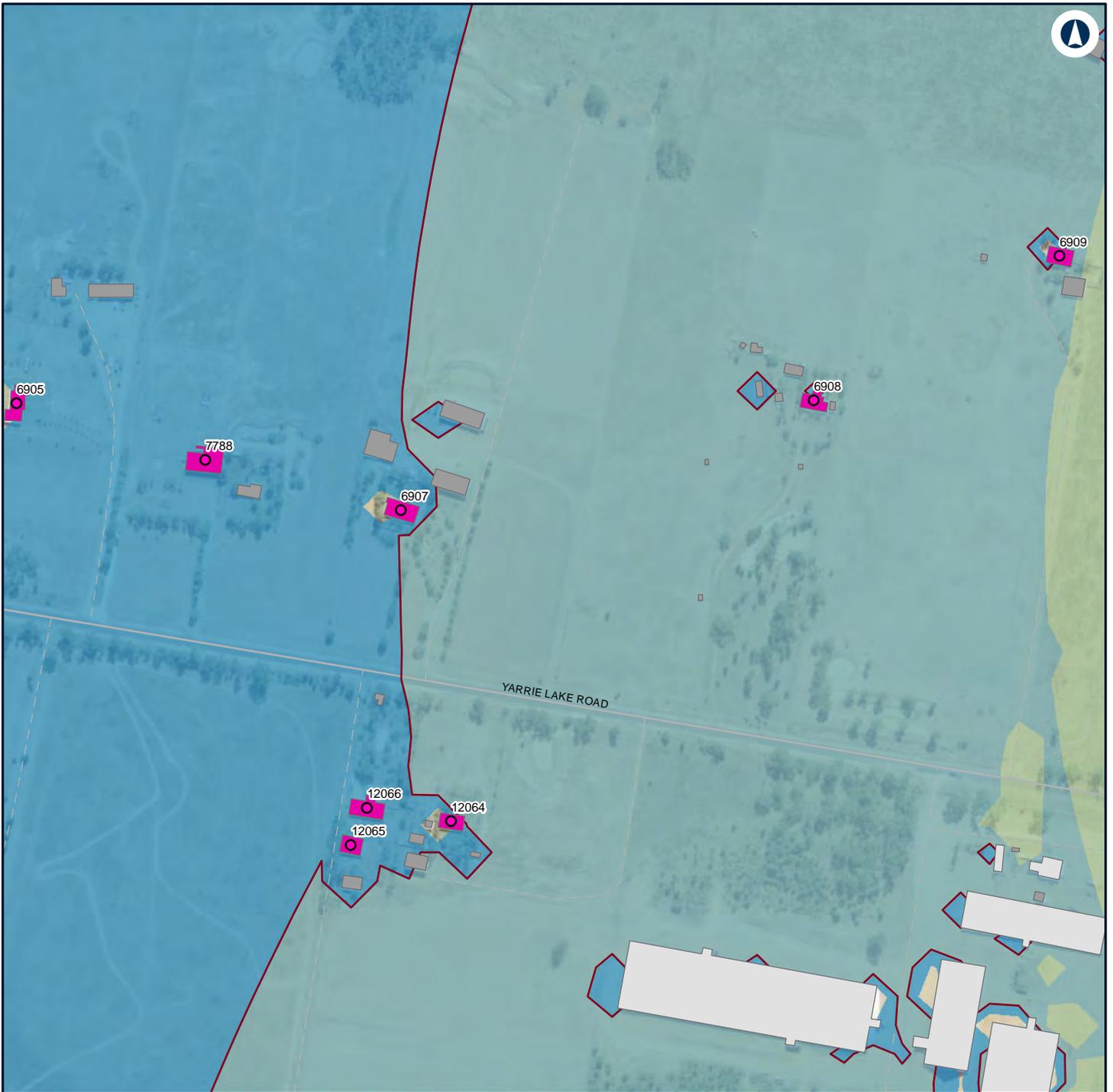
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

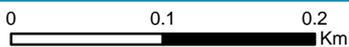
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

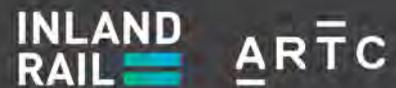
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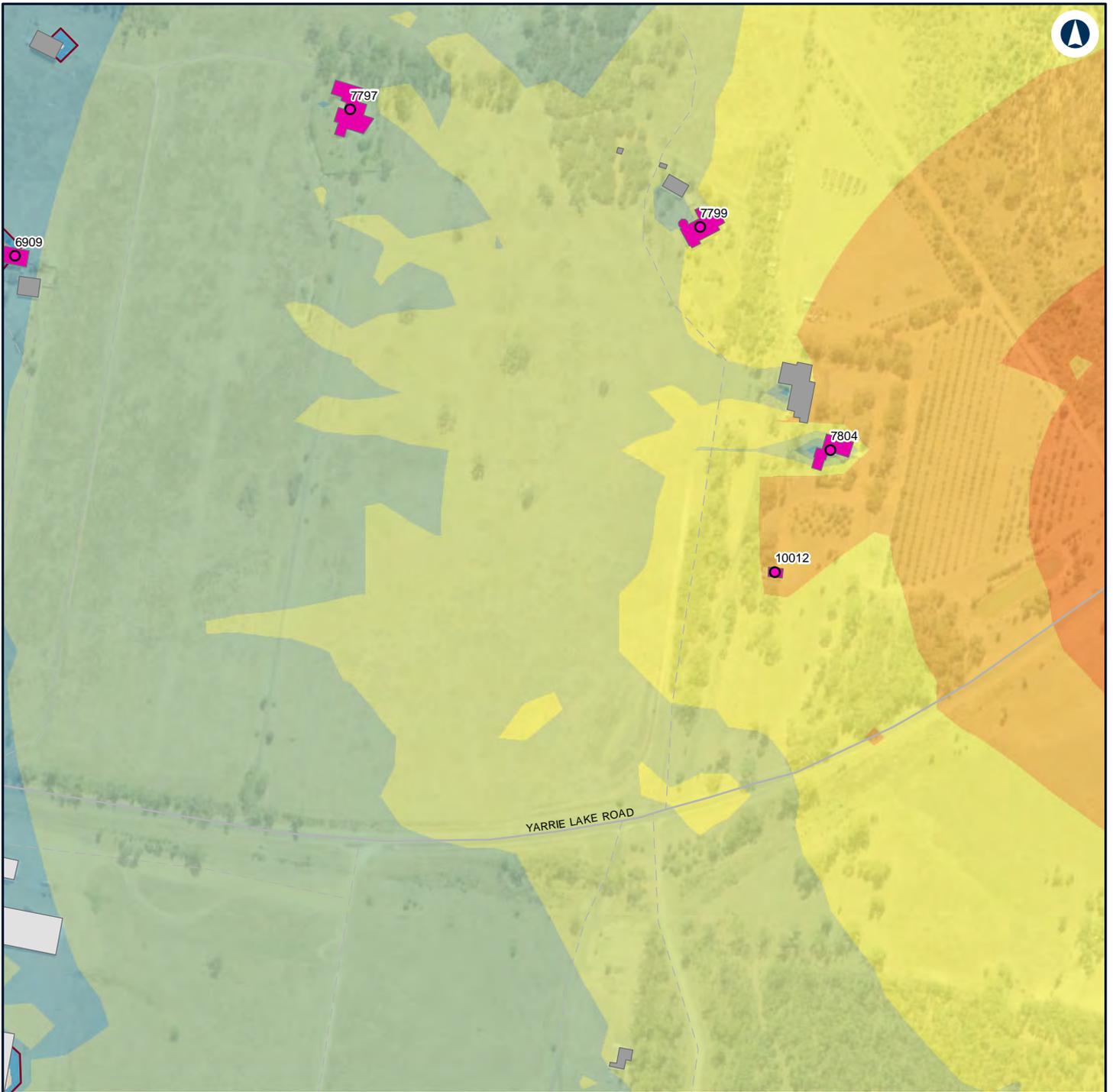
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

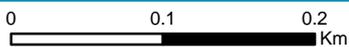
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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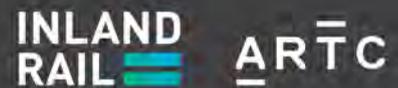
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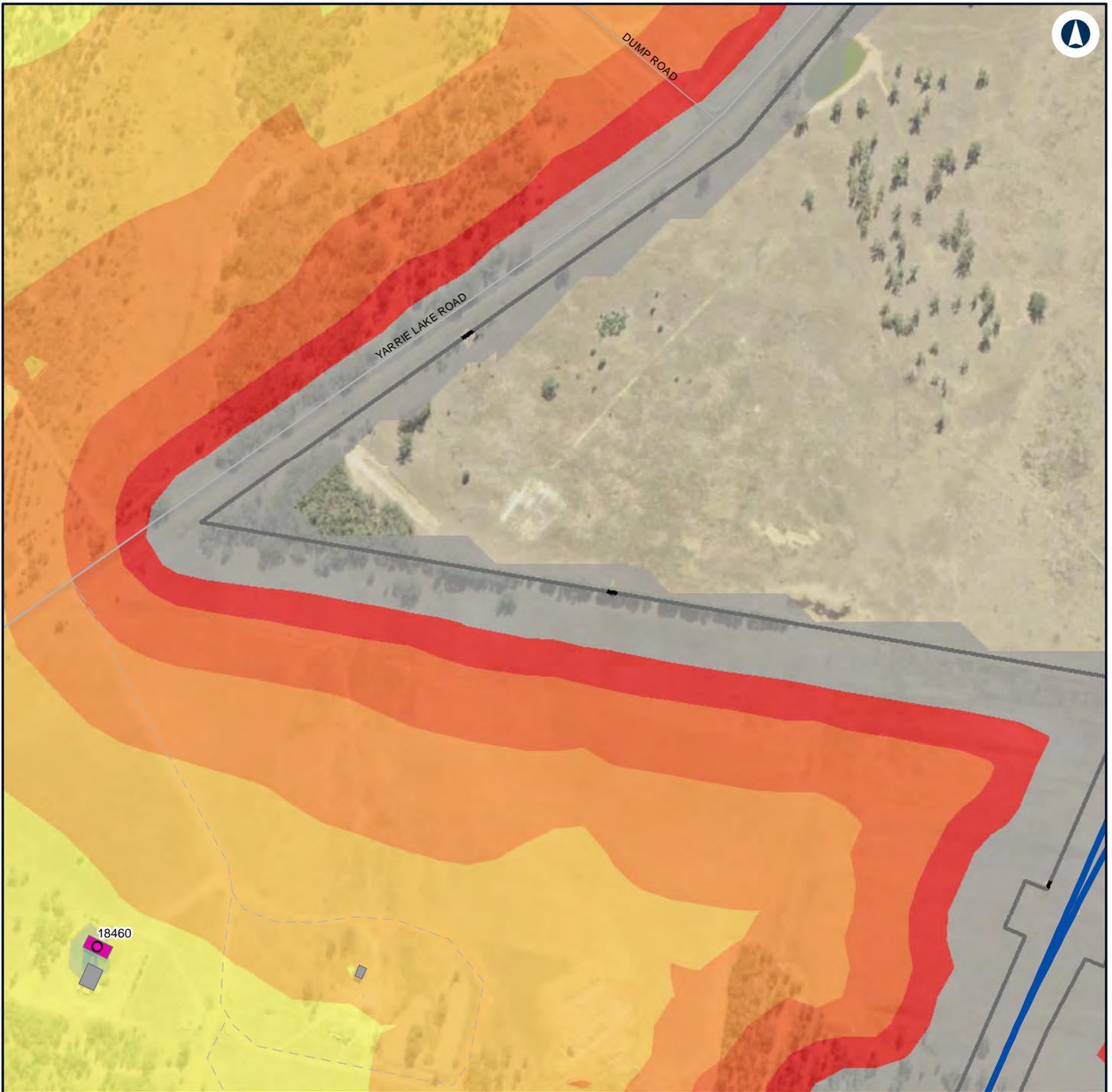
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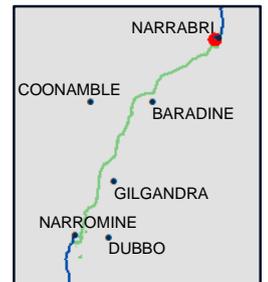


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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Other	50 - 55	
Residential	55 - 60	
Alignment	60 - 65	
	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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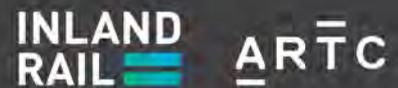
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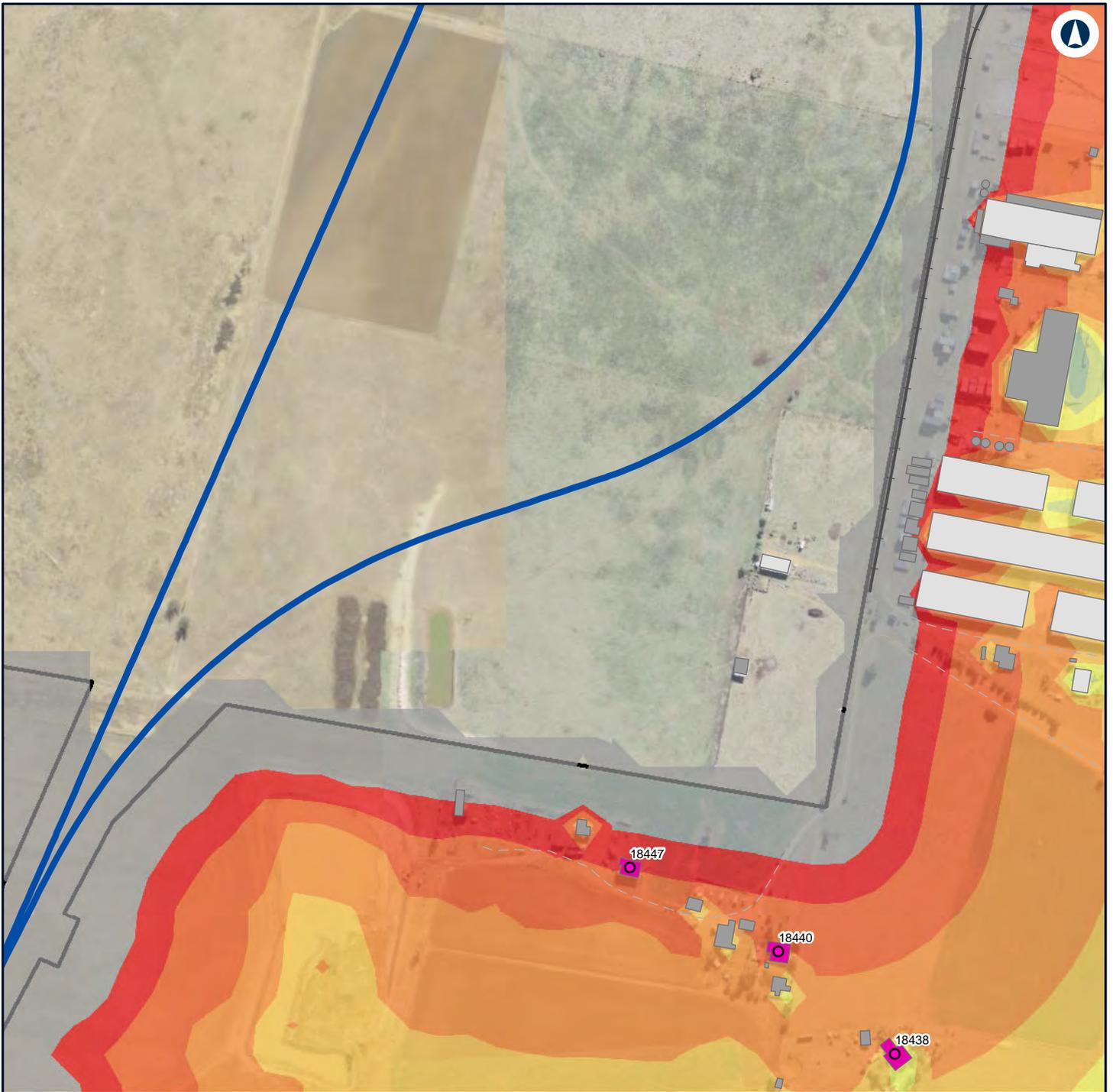
Author: GHD

Scale: 1:5,000

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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Commercial/Industrial	50 - 55	
Other	55 - 60	
Residential	60 - 65	
Alignment	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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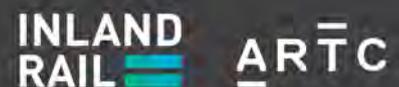
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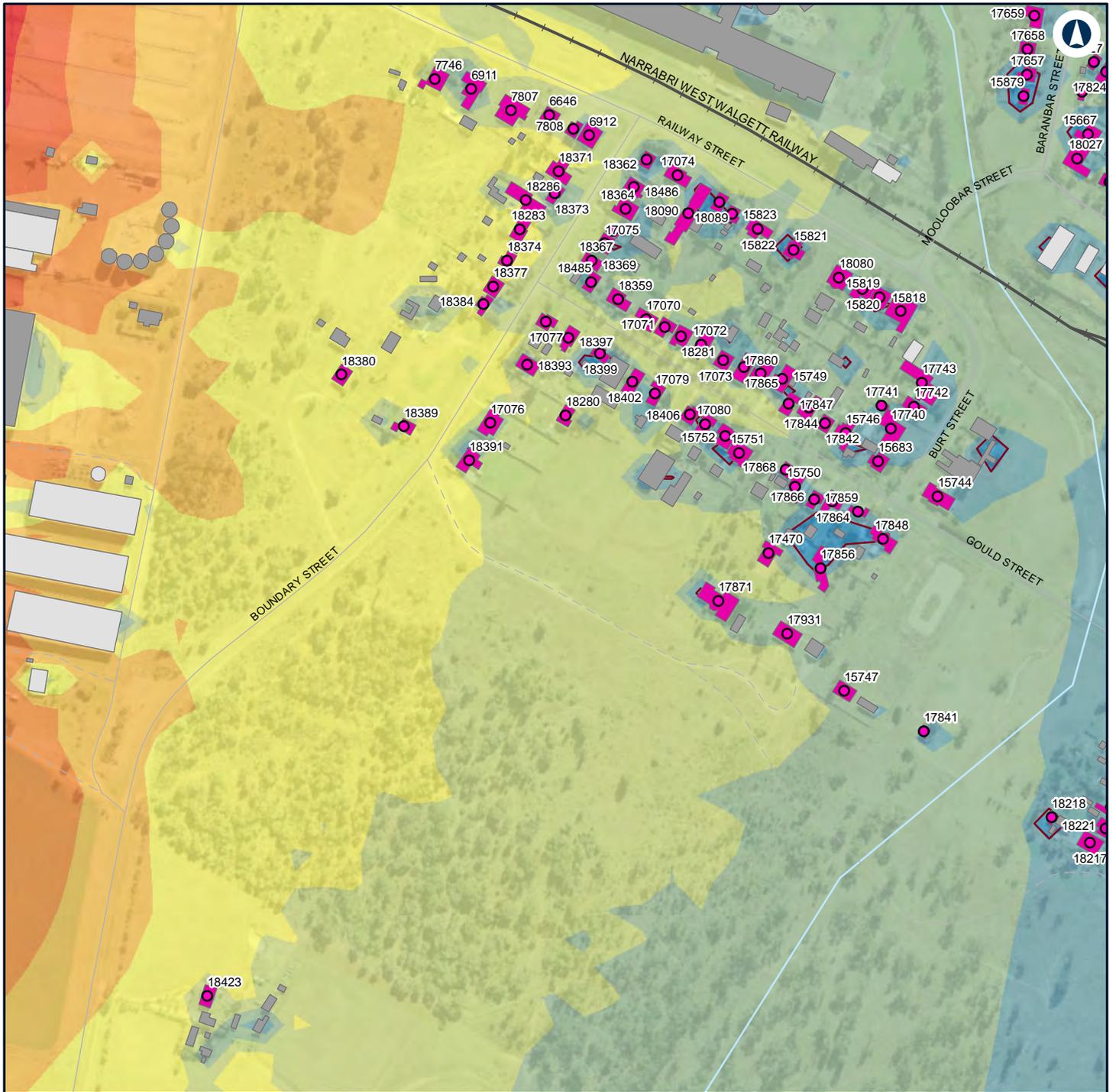
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)	
	30 - 35
	35 - 40
	40 - 45
	45 - 50
	50 - 55
	55 - 60
	60 - 65
	65 - 70
	70 - 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

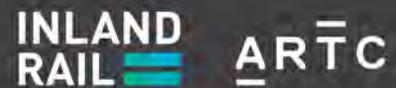


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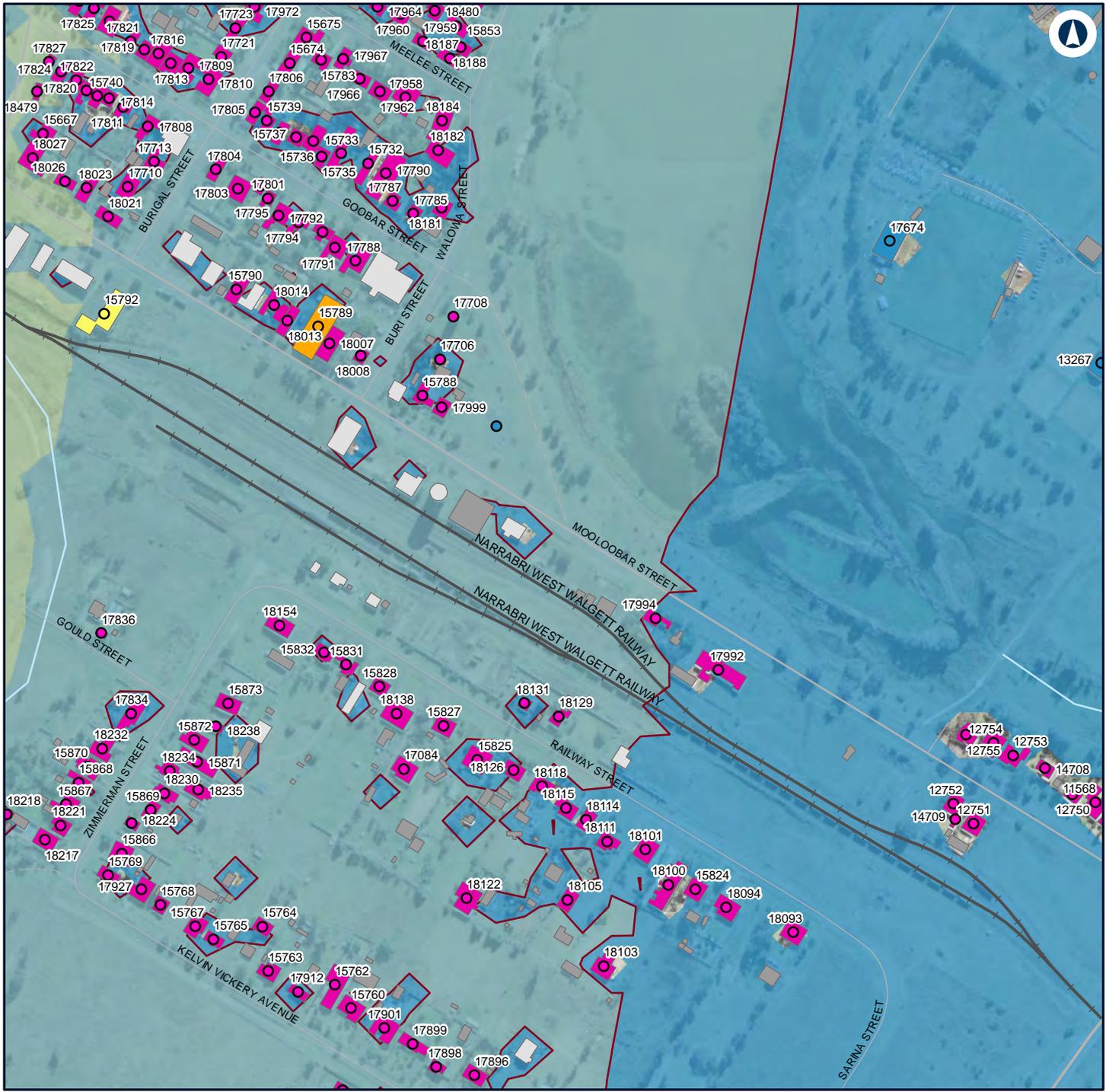
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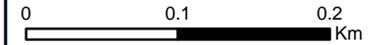


LEGEND

Structure type	Community	35 - 40
Active recreation	Other	40 - 45
Community	Residential	
Residential	Worship	
Worship	Night-time noise management level	
Active recreation	Noise level (dBA L_{Aeq} 15 minute)	
Commercial/Industrial	30 - 35	

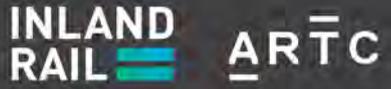


NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 260 of 298

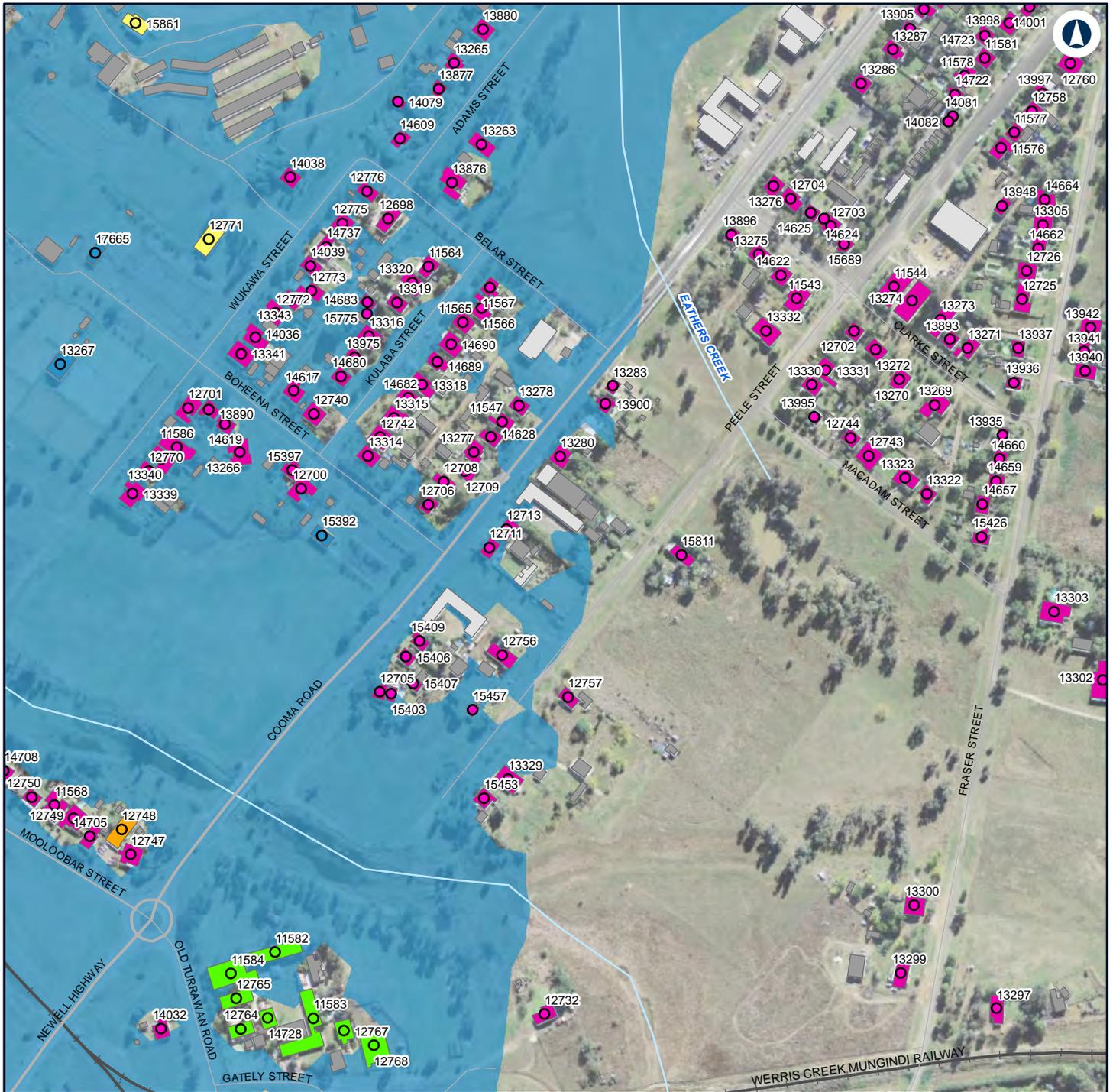


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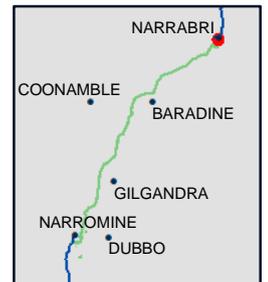


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LEGEND

Structure type	Commercial/Industrial	Noise level (dBA L_{Aeq} 15 minute)
Active recreation	Community	30 - 35
Community	Educational	
Educational	Other	
Residential	Residential	
Worship	Worship	
Active recreation		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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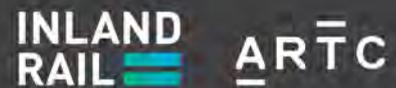
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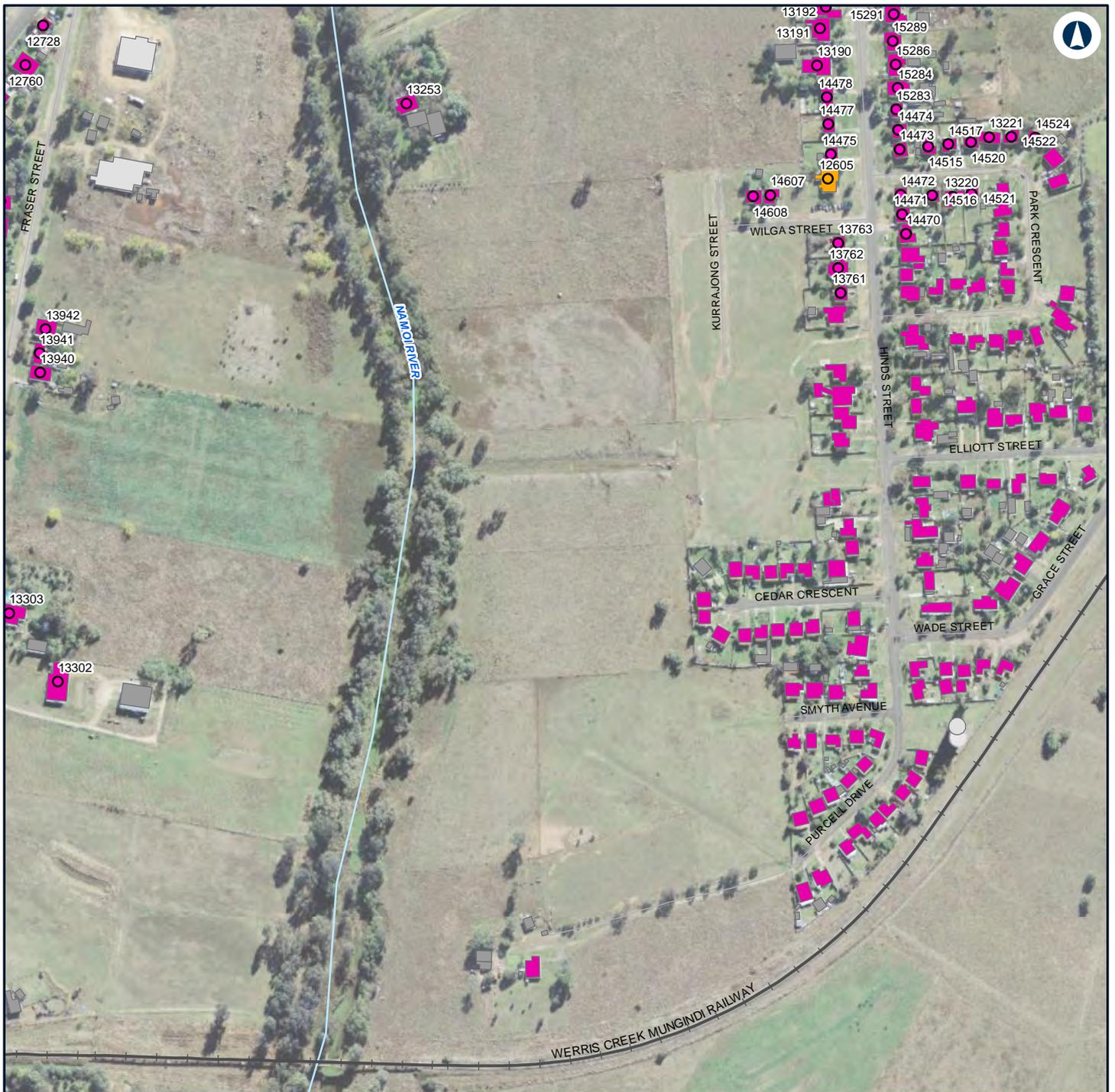
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LEGEND

Structure type

- Residential
- Worship
- Commercial/Industrial
- Other
- Residential
- Worship



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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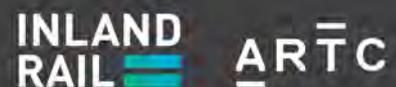
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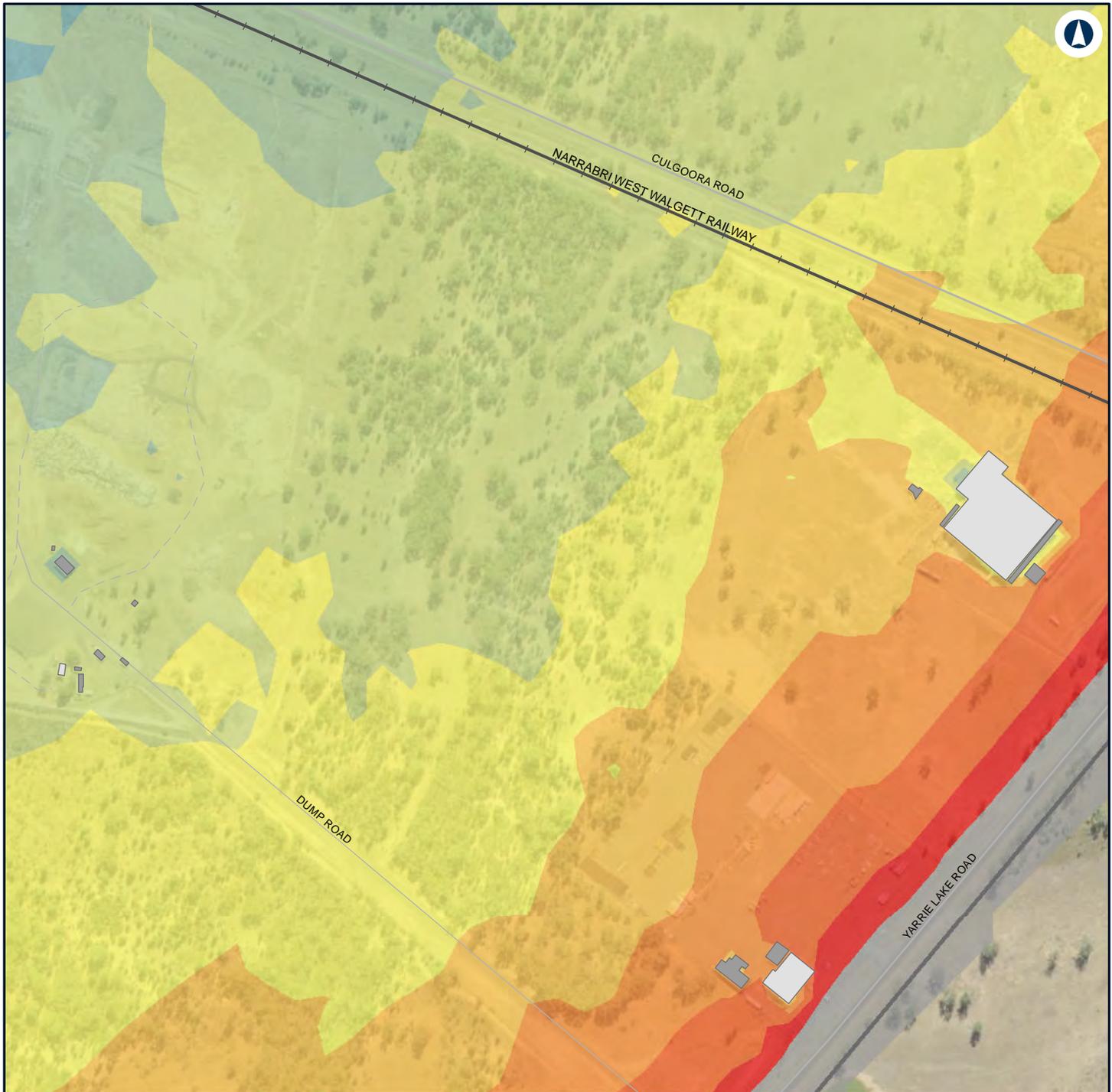
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LEGEND

Construction footprint	50 - 55
Commercial/Industrial	55 - 60
Other	60 - 65
Noise level (dBA L_{Aeq} 15 minute)	65 - 70
35 - 40	70 - 75
40 - 45	> 75
45 - 50	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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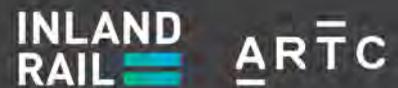
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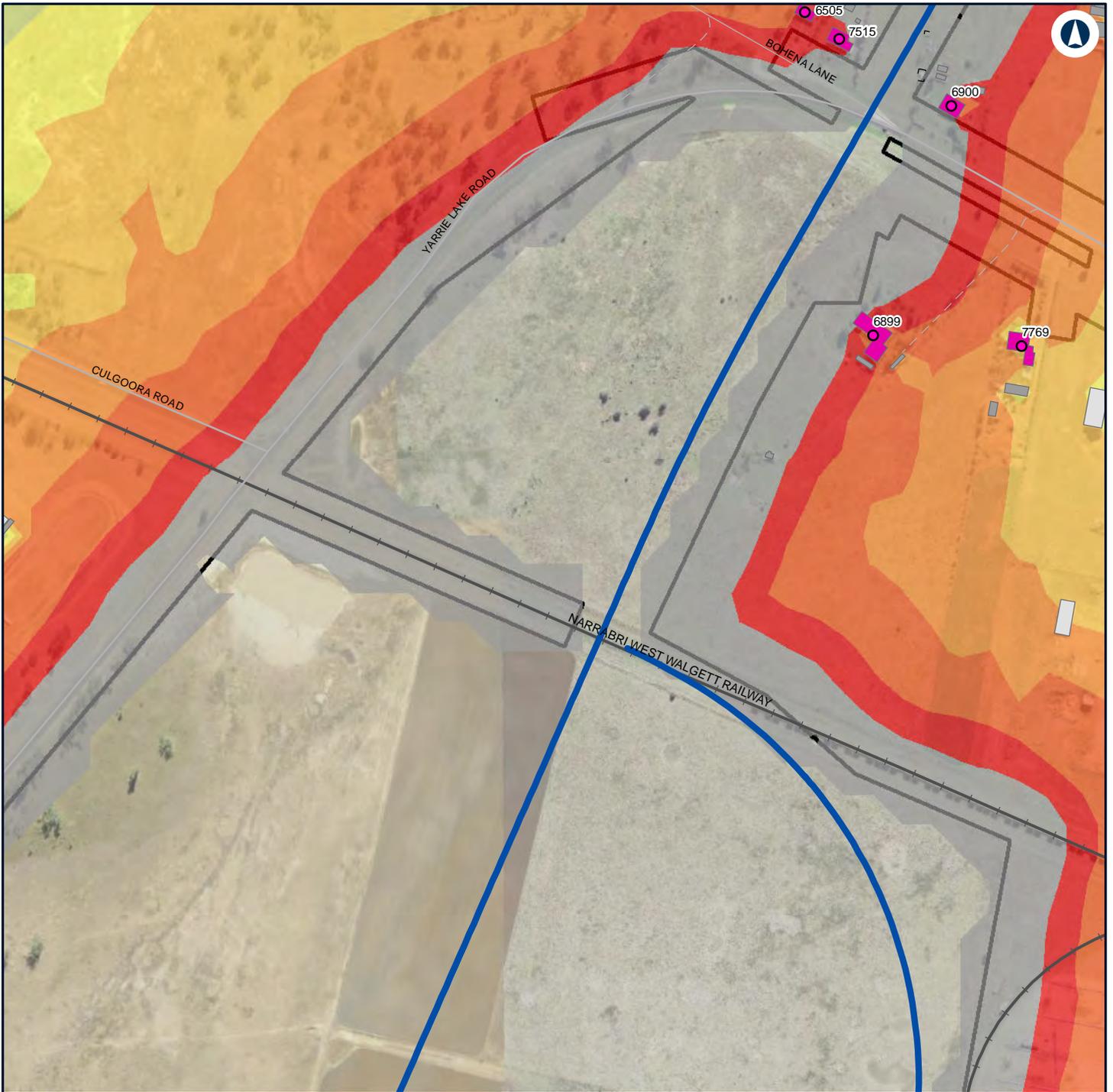
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LEGEND

Construction footprint	Alignment	70 - 75
Structure type	Noise level (dBA L_{Aeq} 15 minute)	> 75
Residential	45 - 50	
Commercial/Industrial	50 - 55	
DEMOLISH - Other	55 - 60	
Other	60 - 65	
Residential	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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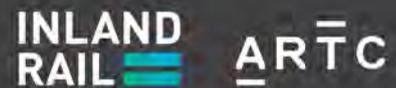
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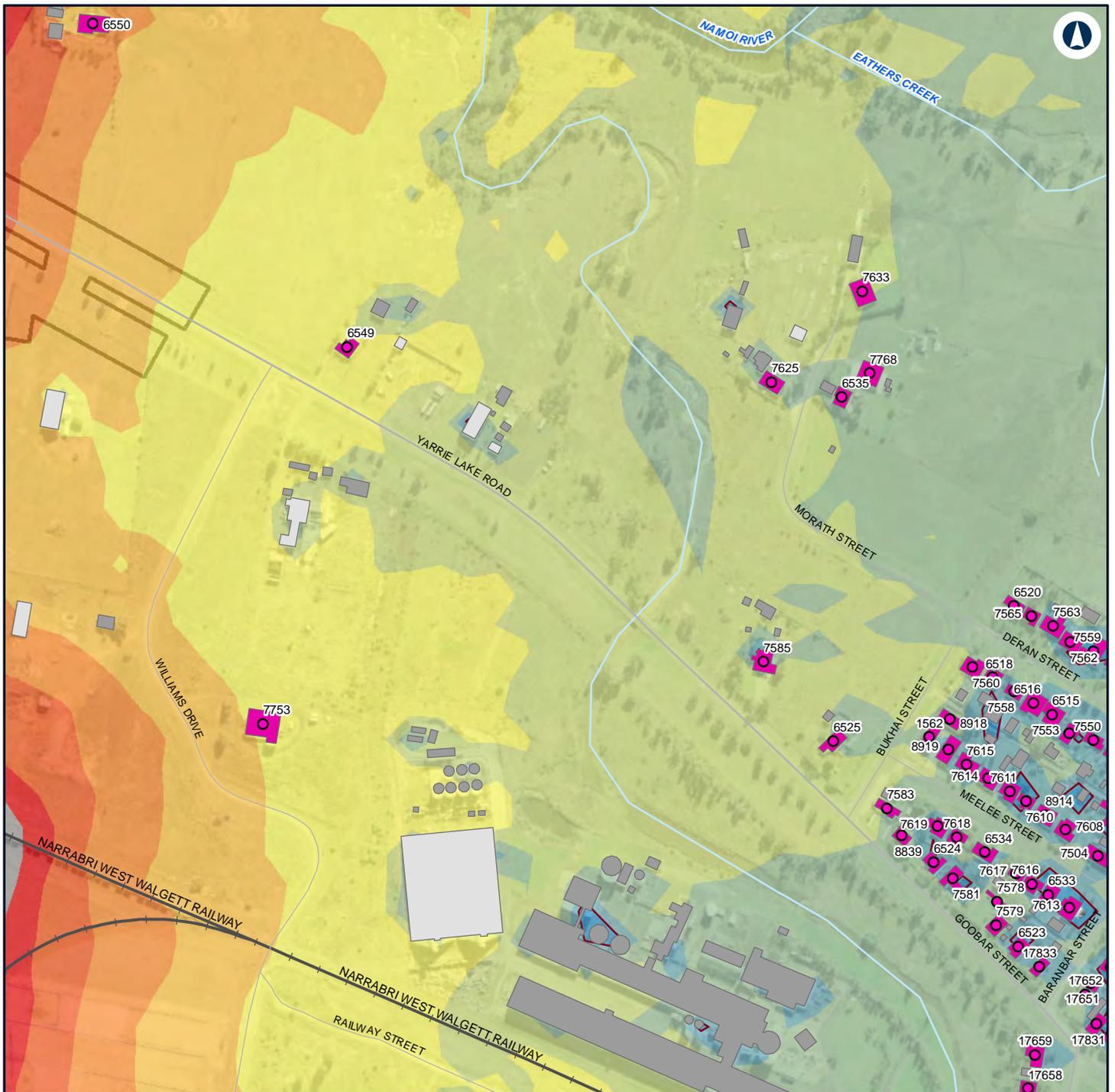
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	60 - 65
Structure type	30 - 35	65 - 70
Residential	35 - 40	70 - 75
Commercial/Industrial	40 - 45	> 75
Other	45 - 50	
Residential	50 - 55	
Night-time noise management level	55 - 60	



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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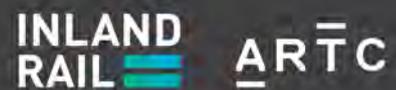
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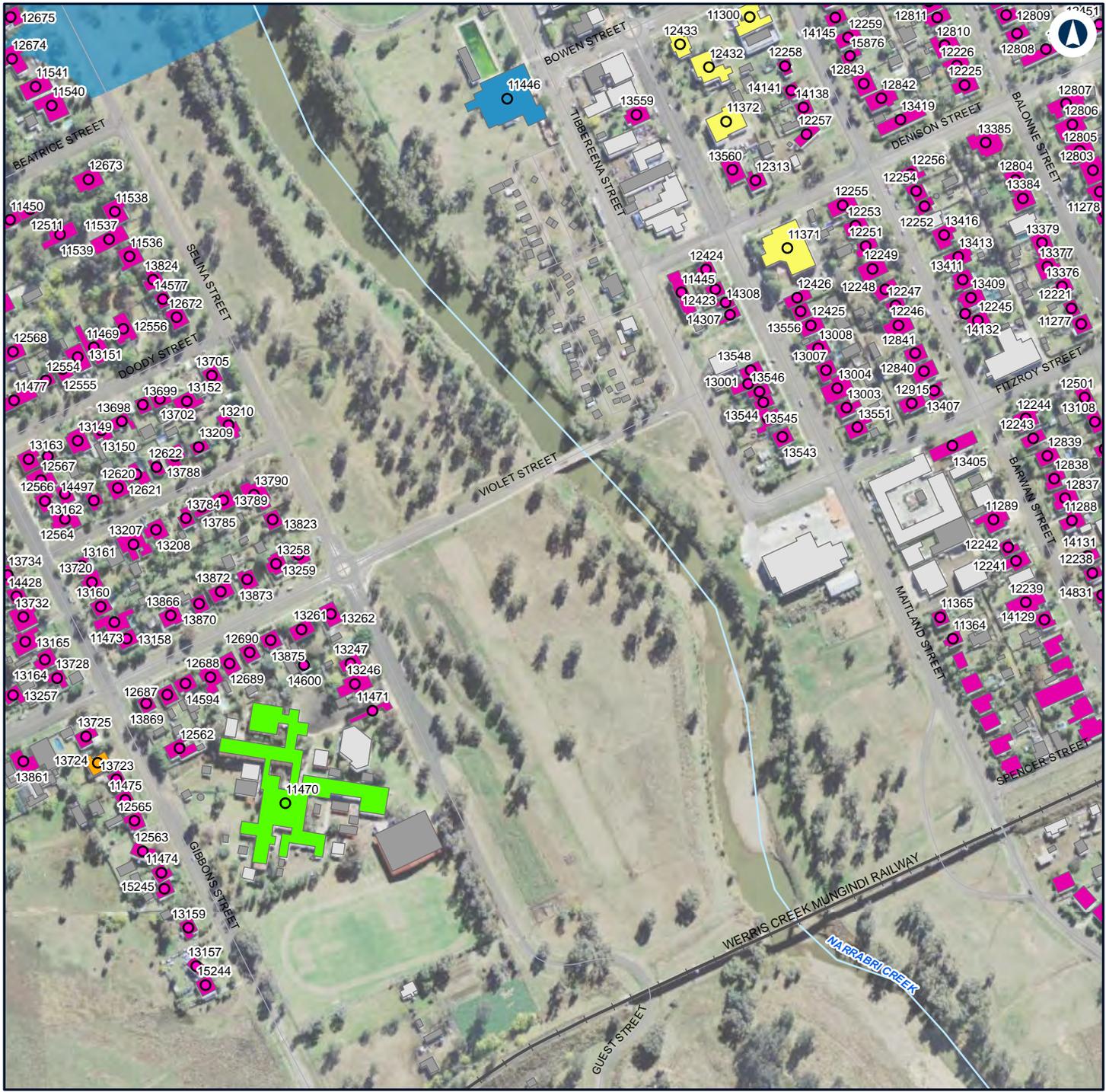
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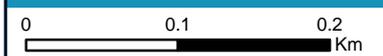


LEGEND

Structure type	Commercial/Industrial	Noise level (dBA L_{Aeq} 15 minute)
Active recreation	Community	30 - 35
Community	Educational	
Educational	Other	
Residential	Residential	
Worship	Worship	
Active recreation		



NARROMINE TO NARRABRI Construction noise contours, Scenario RAIL03 - Stripping Topsoil Appendix F - Page 269 of 298



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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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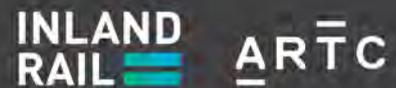
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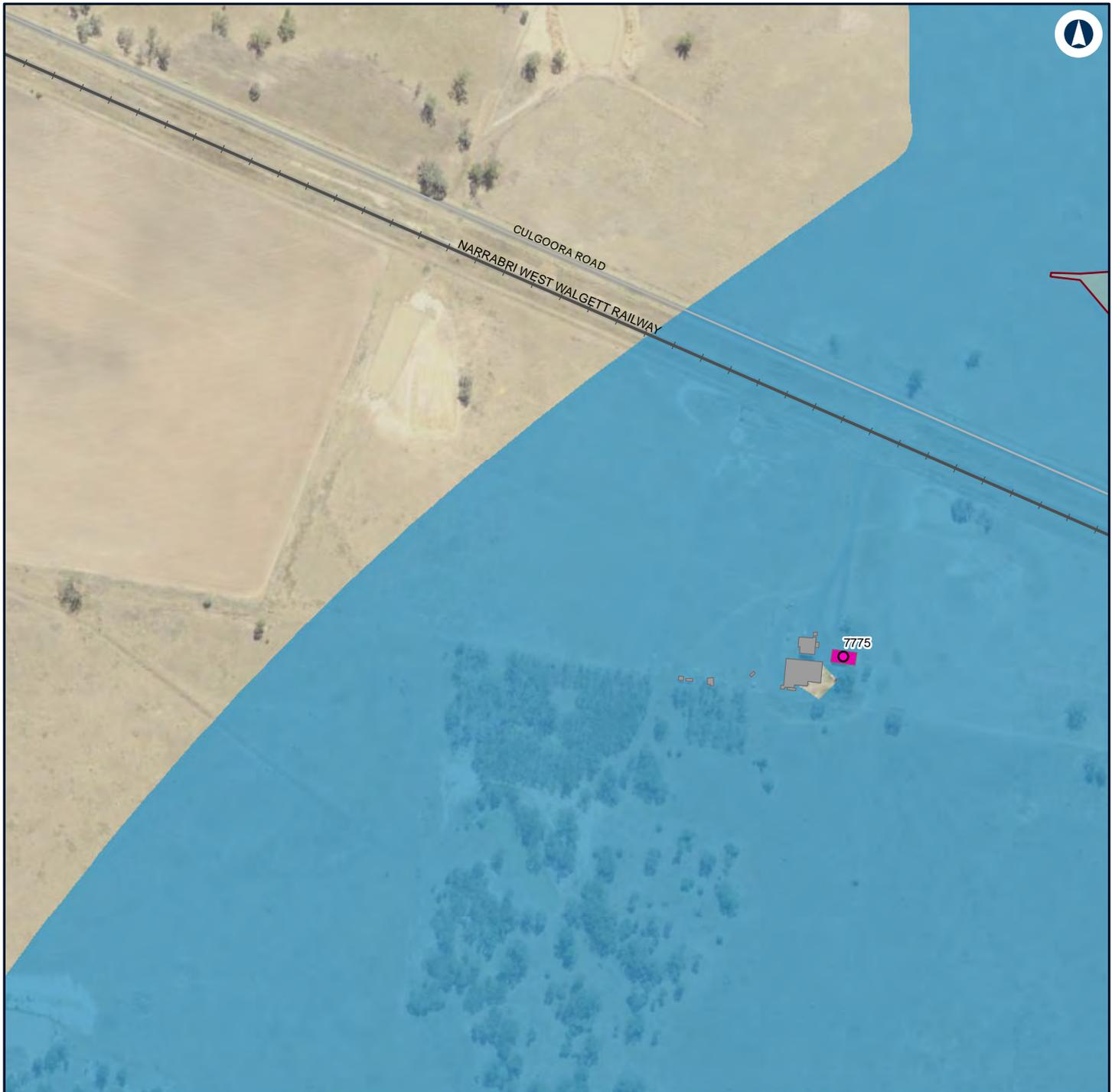
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LEGEND

- Structure type**
- Residential
 - Other
 - Residential
 - Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

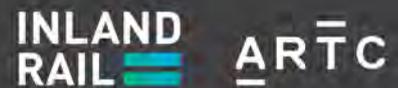
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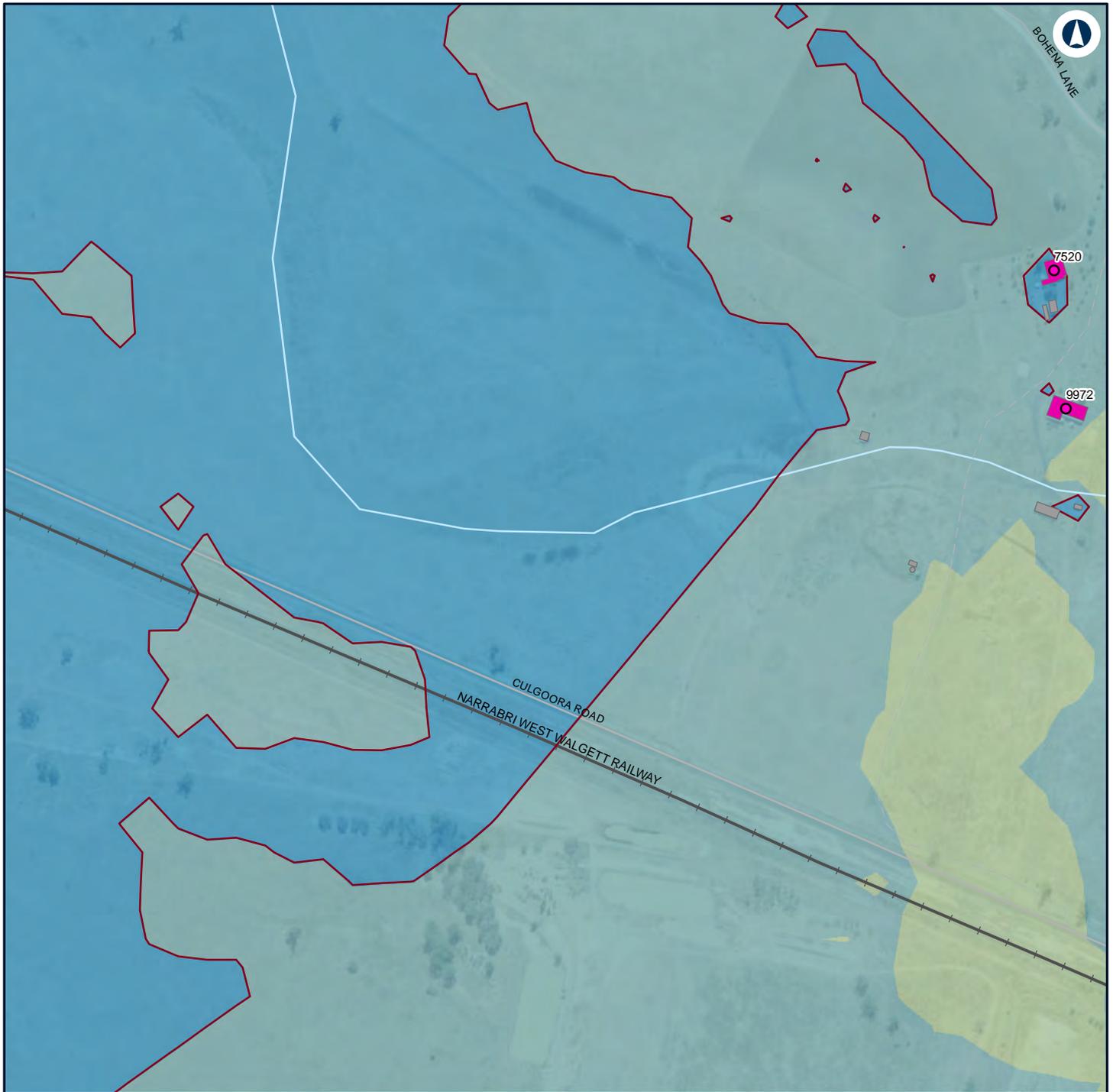
Date: 16/07/2020
Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

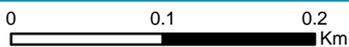
35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

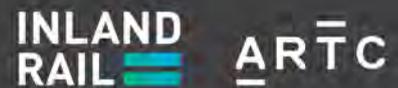
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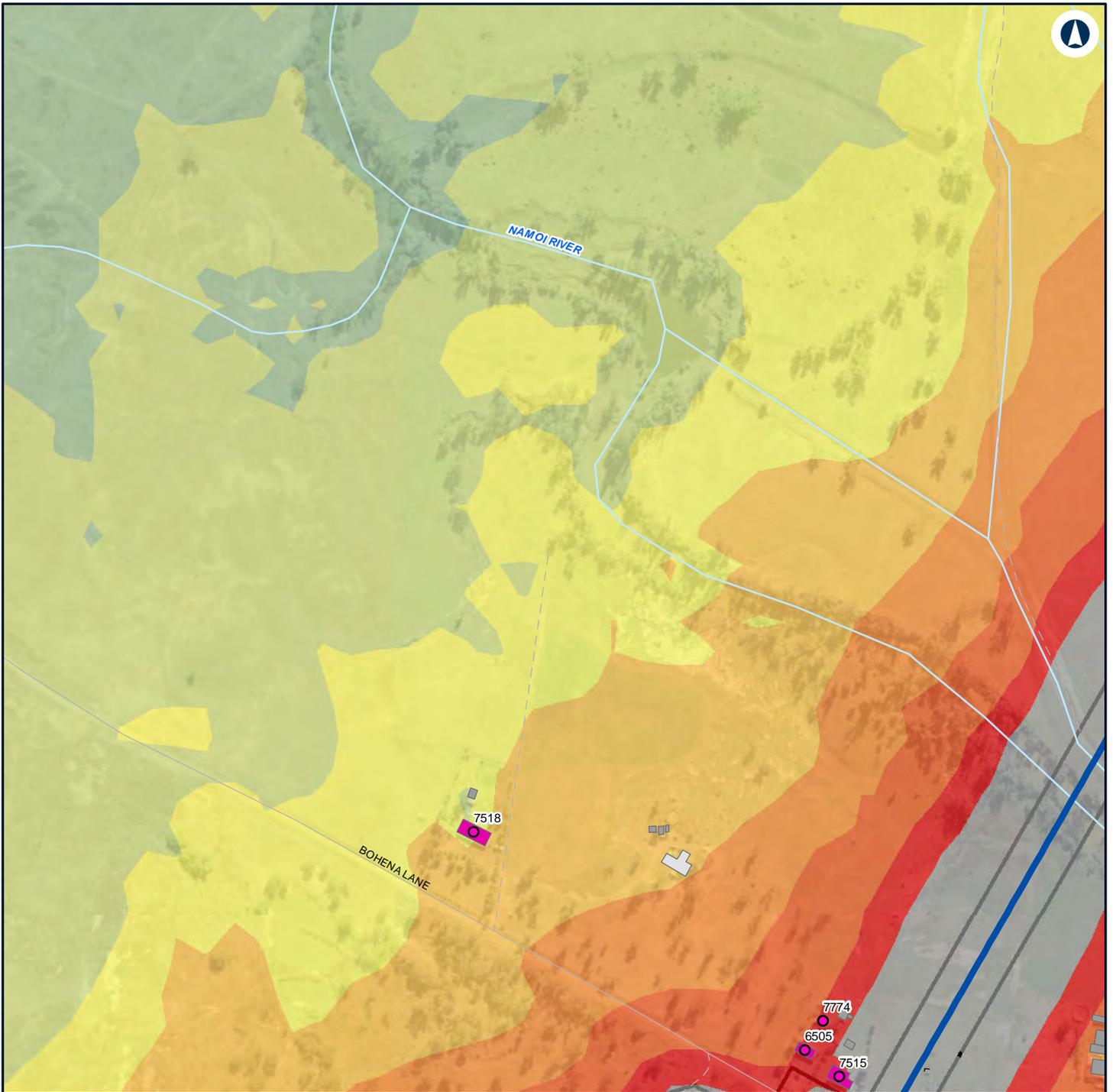
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LEGEND

Construction footprint	Alignment	65 - 70
Structure type	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Residential	40 - 45	> 75
Commercial/Industrial	45 - 50	
DEMOLISH - Other	50 - 55	
Other	55 - 60	
Residential	60 - 65	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

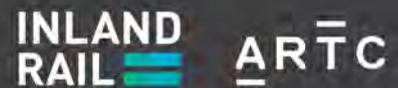


Coordinate System: GDA 1994 MGA Zone 55

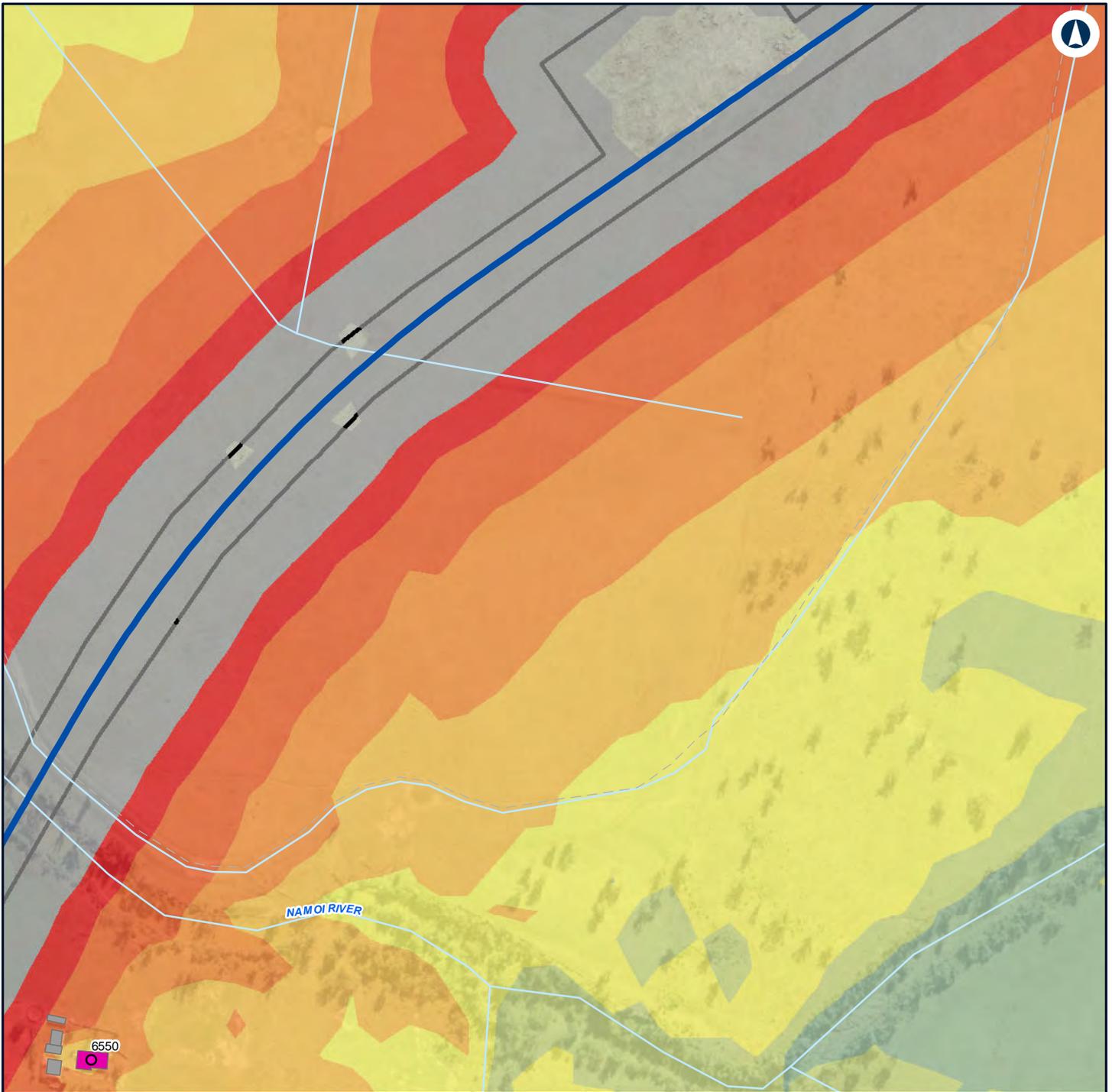
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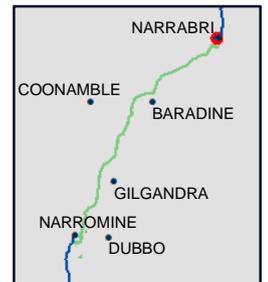


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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)		70 - 75	
	Residential		40 - 45		> 75
	Other		45 - 50		
	Residential		50 - 55		
	Alignment		55 - 60		
			60 - 65		
			65 - 70		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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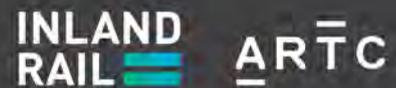
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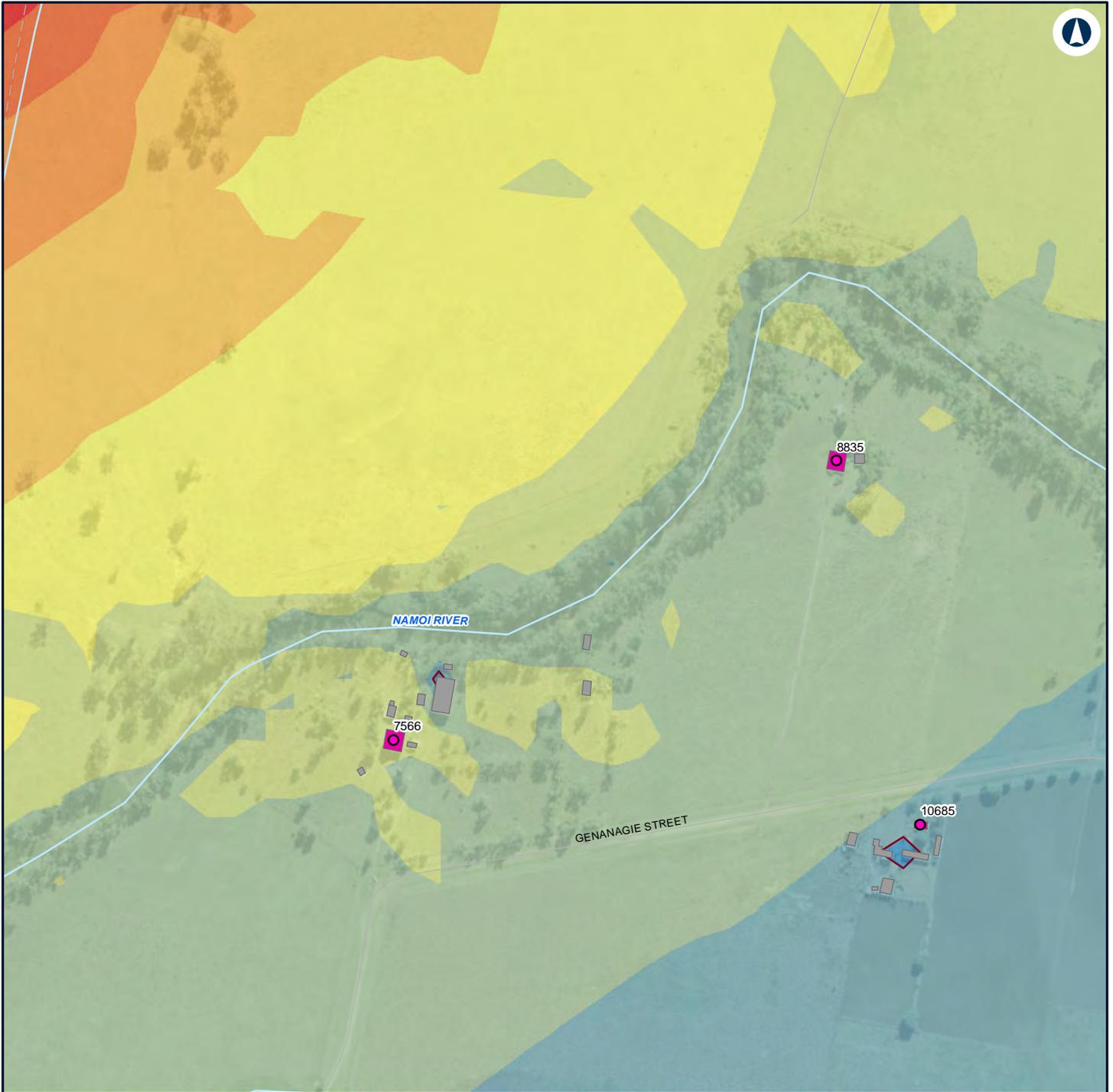
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- | | | | | | | | | | |
|--|---------|--|---------|--|---------|--|---------|--|---------|
| | 30 - 35 | | 40 - 45 | | 50 - 55 | | 60 - 65 | | 70 - 75 |
|--|---------|--|---------|--|---------|--|---------|--|---------|



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

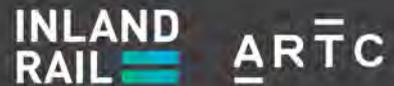
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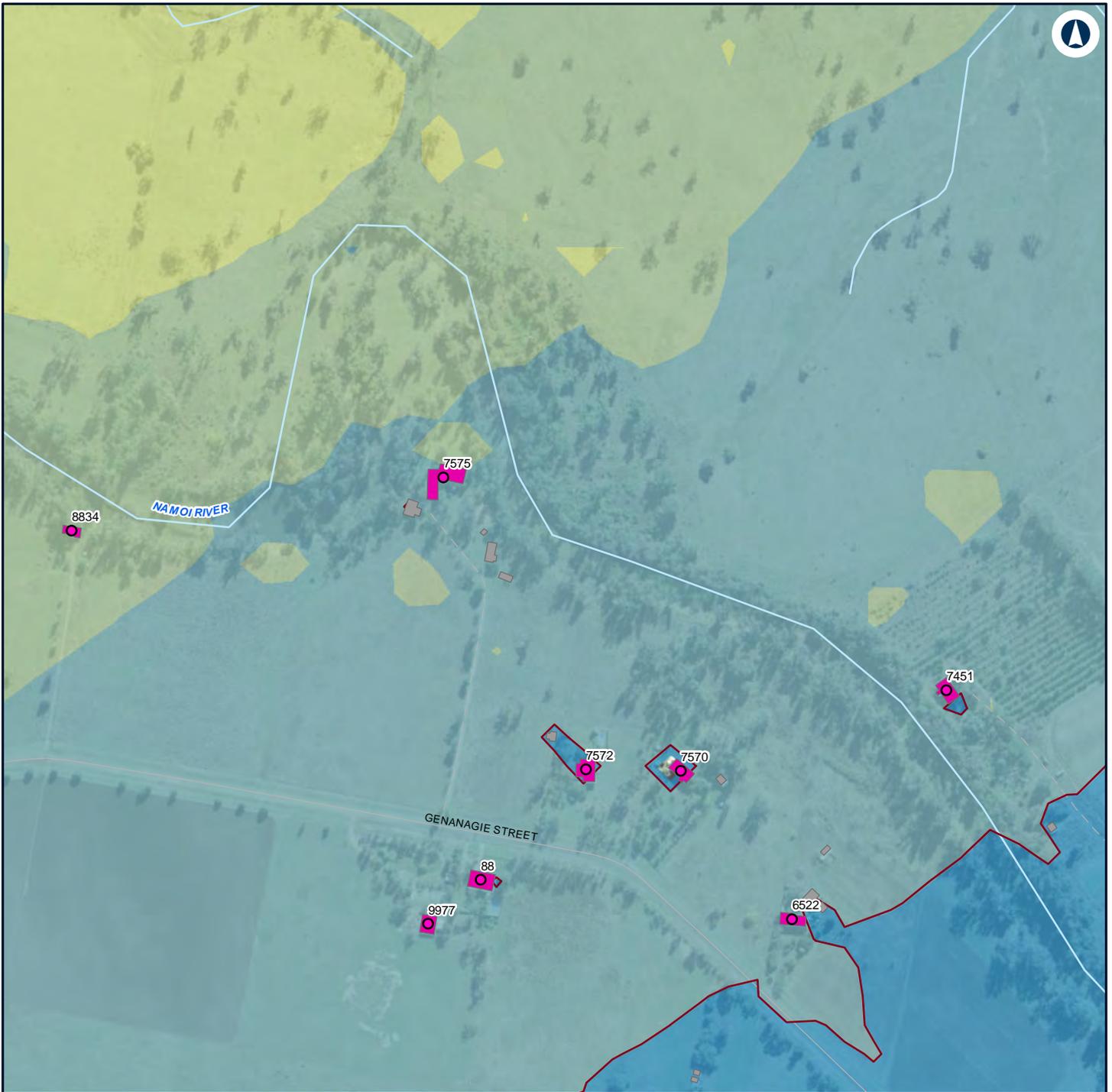
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LEGEND

Structure type

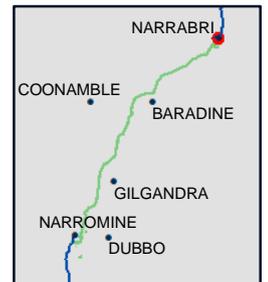
- Residential
- Other
- Residential

- 35 - 40
- 40 - 45
- 45 - 50

Night-time noise management level

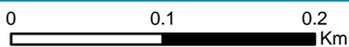
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

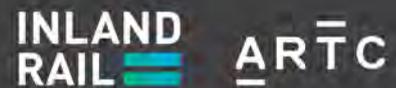
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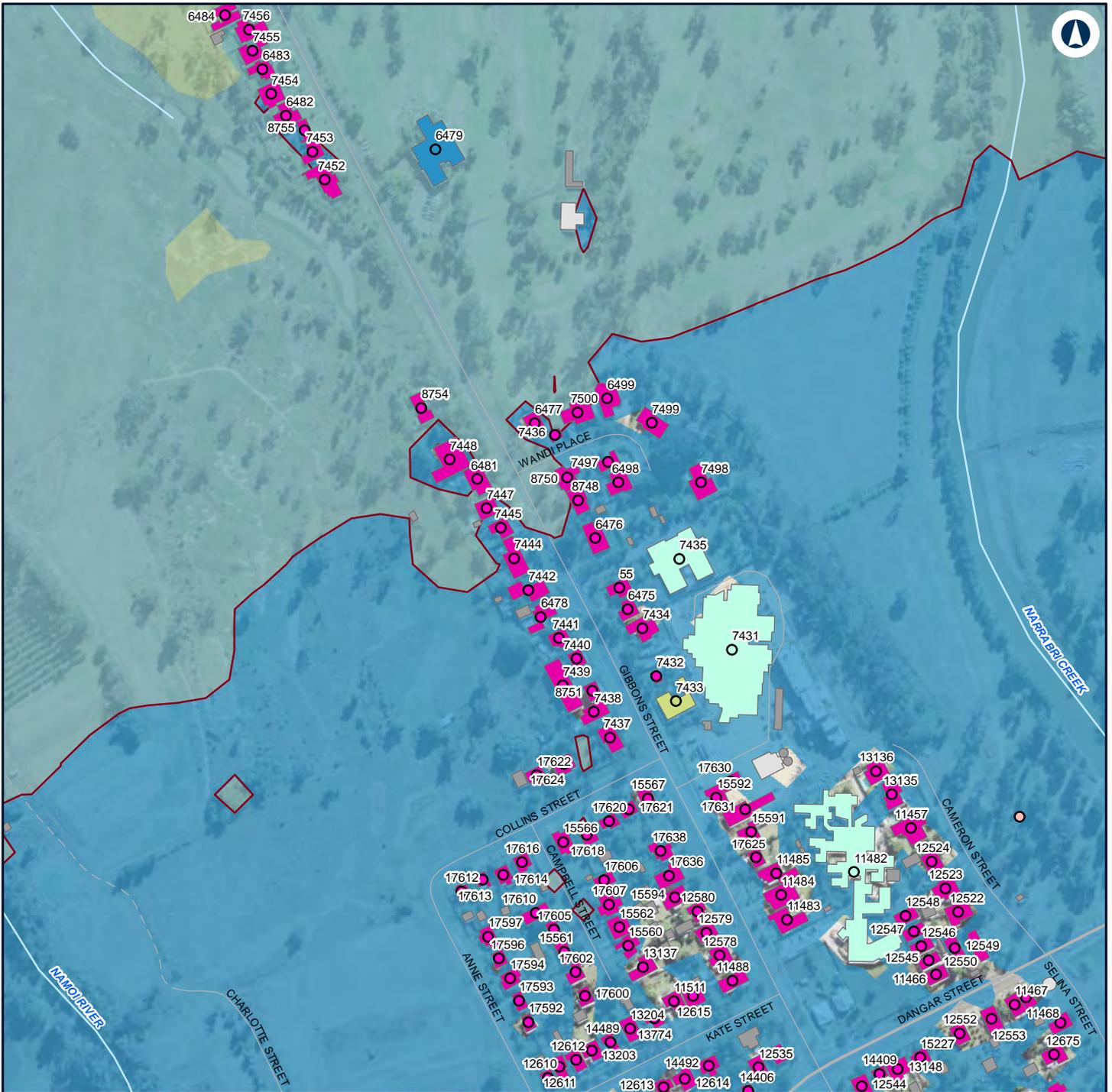
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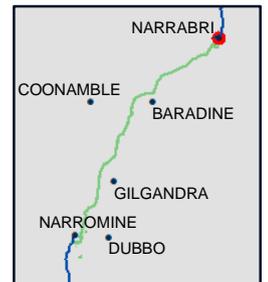


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LEGEND

- | | | |
|-----------------------|-----------------------------------|--|
| Structure type | Child care facility | Noise level (dBA L_{Aeq} 15 minute) |
| Active recreation | Commercial/Industrial | 30 - 35 |
| Child care facility | Health | 35 - 40 |
| Health | Other | 40 - 45 |
| Passive recreation | Residential | |
| Residential | Night-time noise management level | |
| Active recreation | | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

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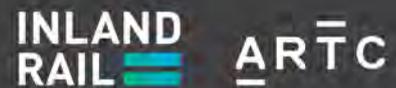
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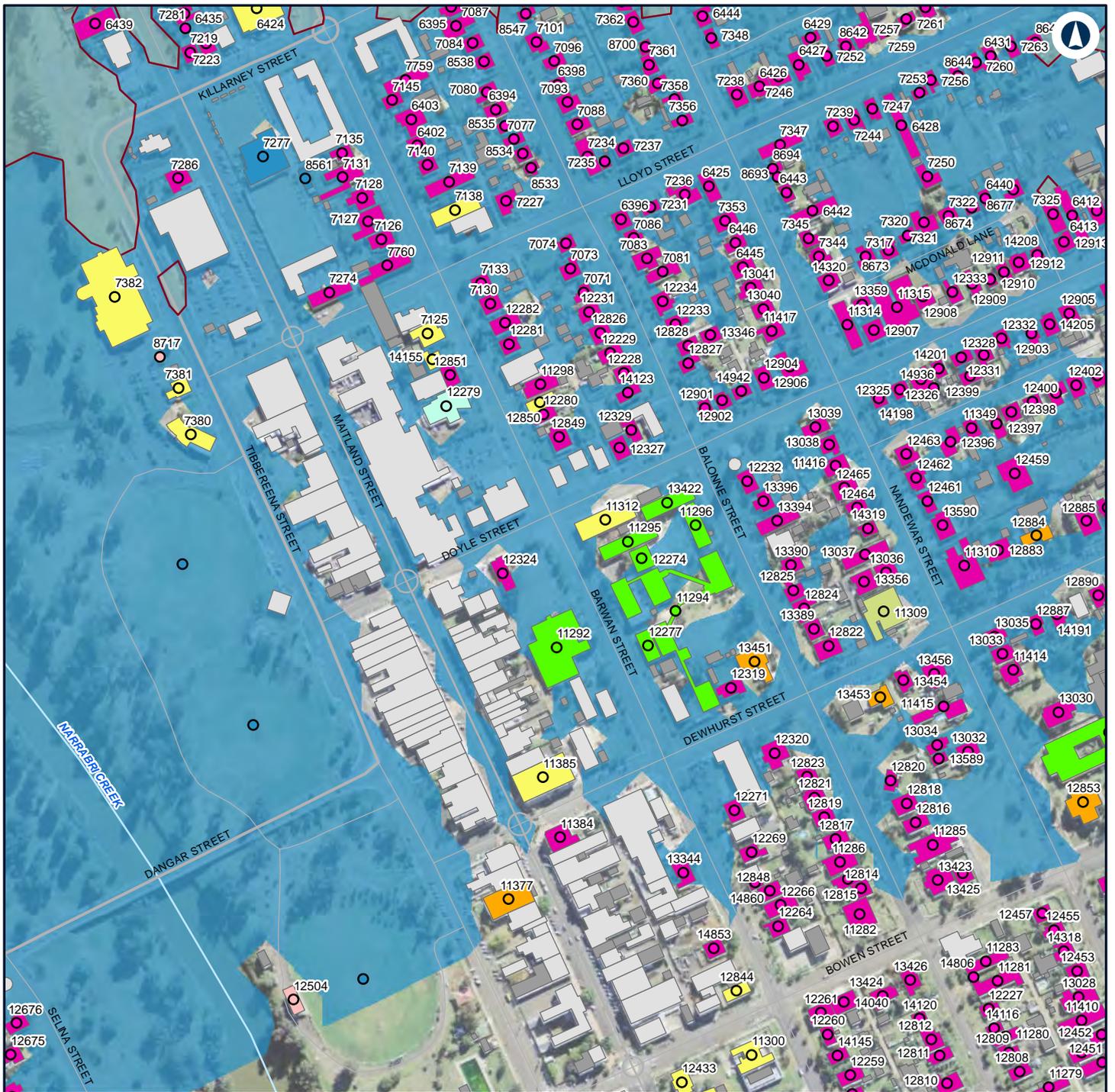
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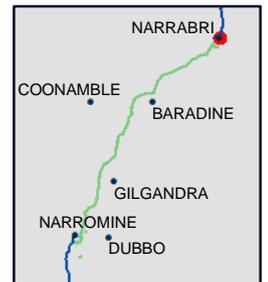


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LEGEND

Structure type	● Residential	■ Health	Noise level (dBA L_{Aeq} 15 minute)
● Active recreation	● Worship	■ Other	■ 30 - 35
● Child care facility	■ Active recreation	■ Passive recreation	■ 35 - 40
● Community	■ Child care facility	■ Residential	
● Educational	■ Commercial/Industrial	■ Worship	
● Health	■ Community	— Night-time noise management level	
● Passive recreation	■ Educational		



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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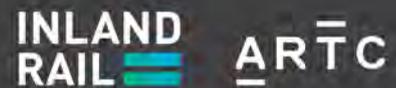
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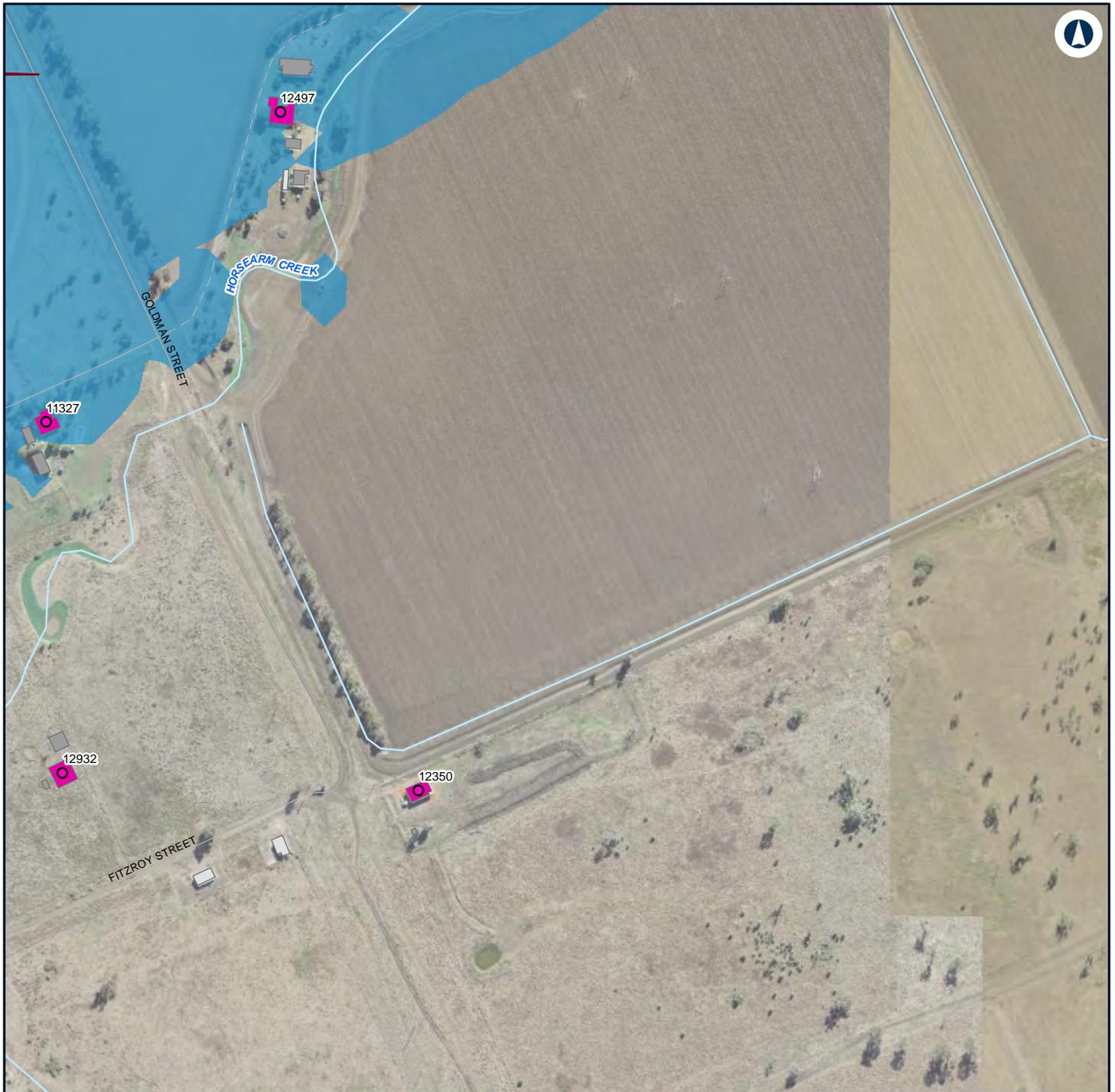
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

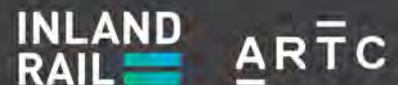
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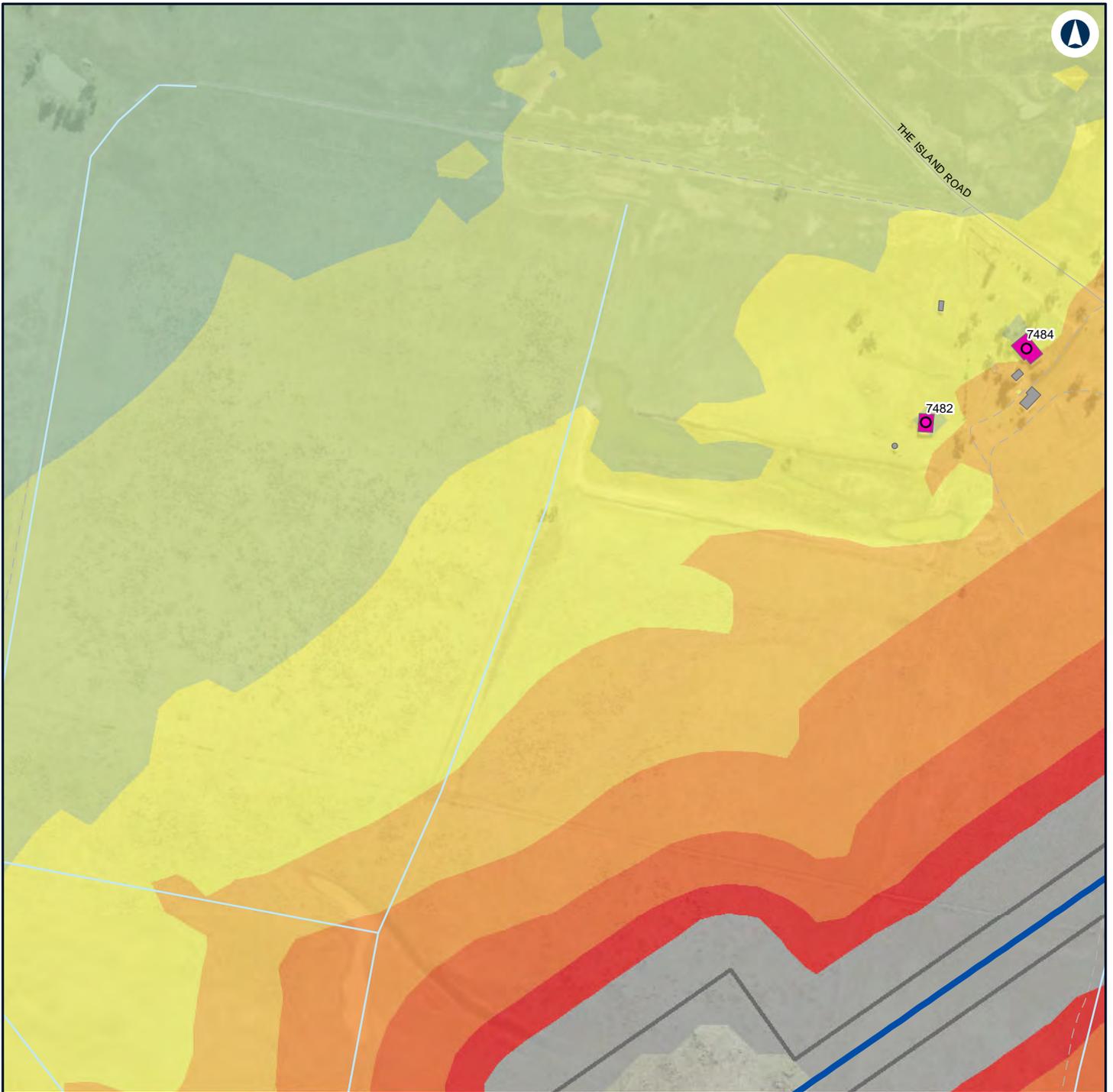
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Other	50 - 55	
Residential	55 - 60	
Alignment	60 - 65	
	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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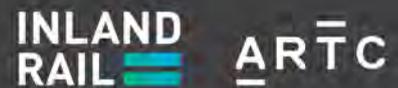
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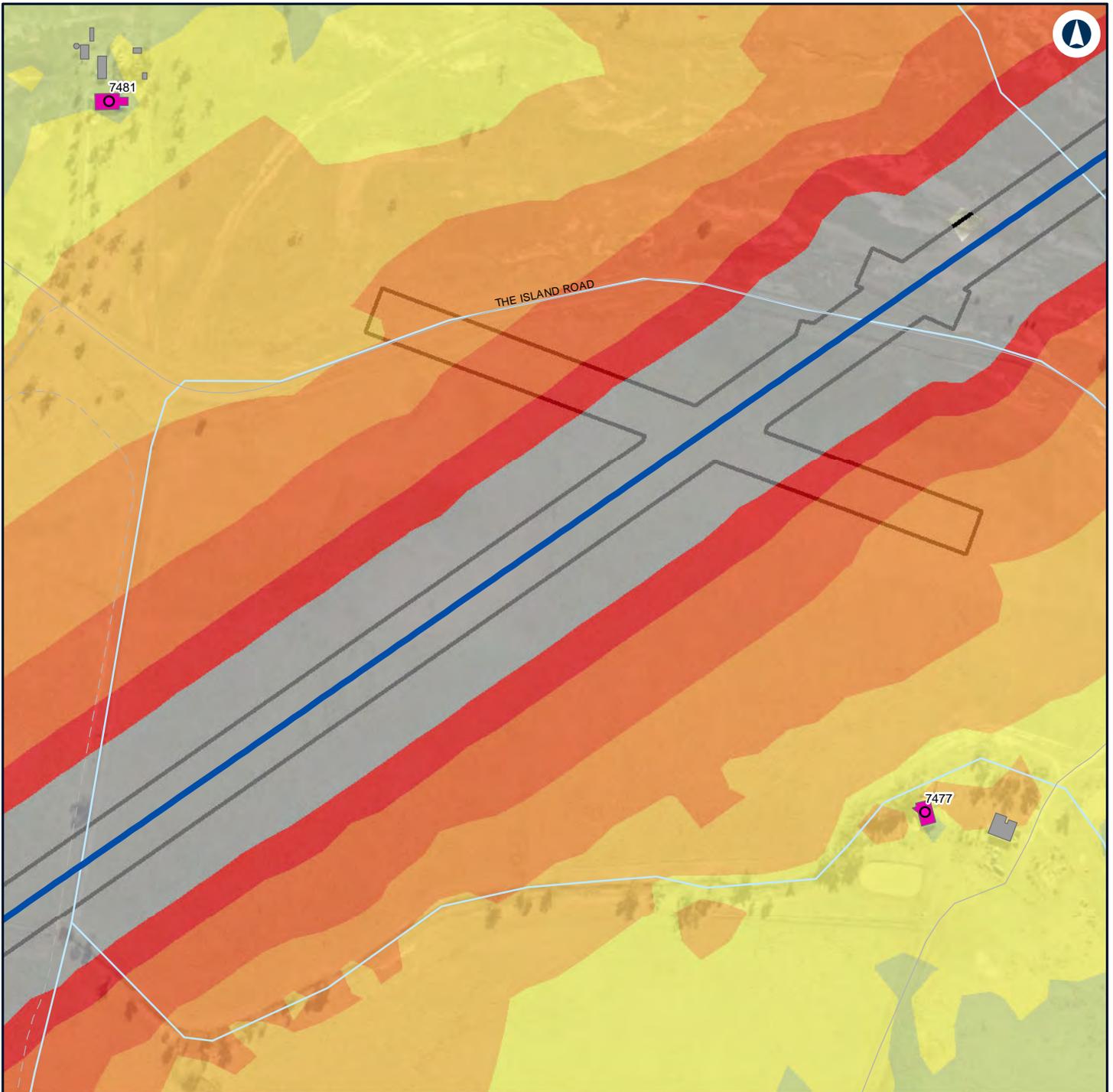
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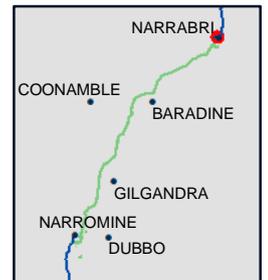


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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Other	50 - 55	
Residential	55 - 60	
Alignment	60 - 65	
	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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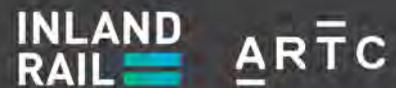
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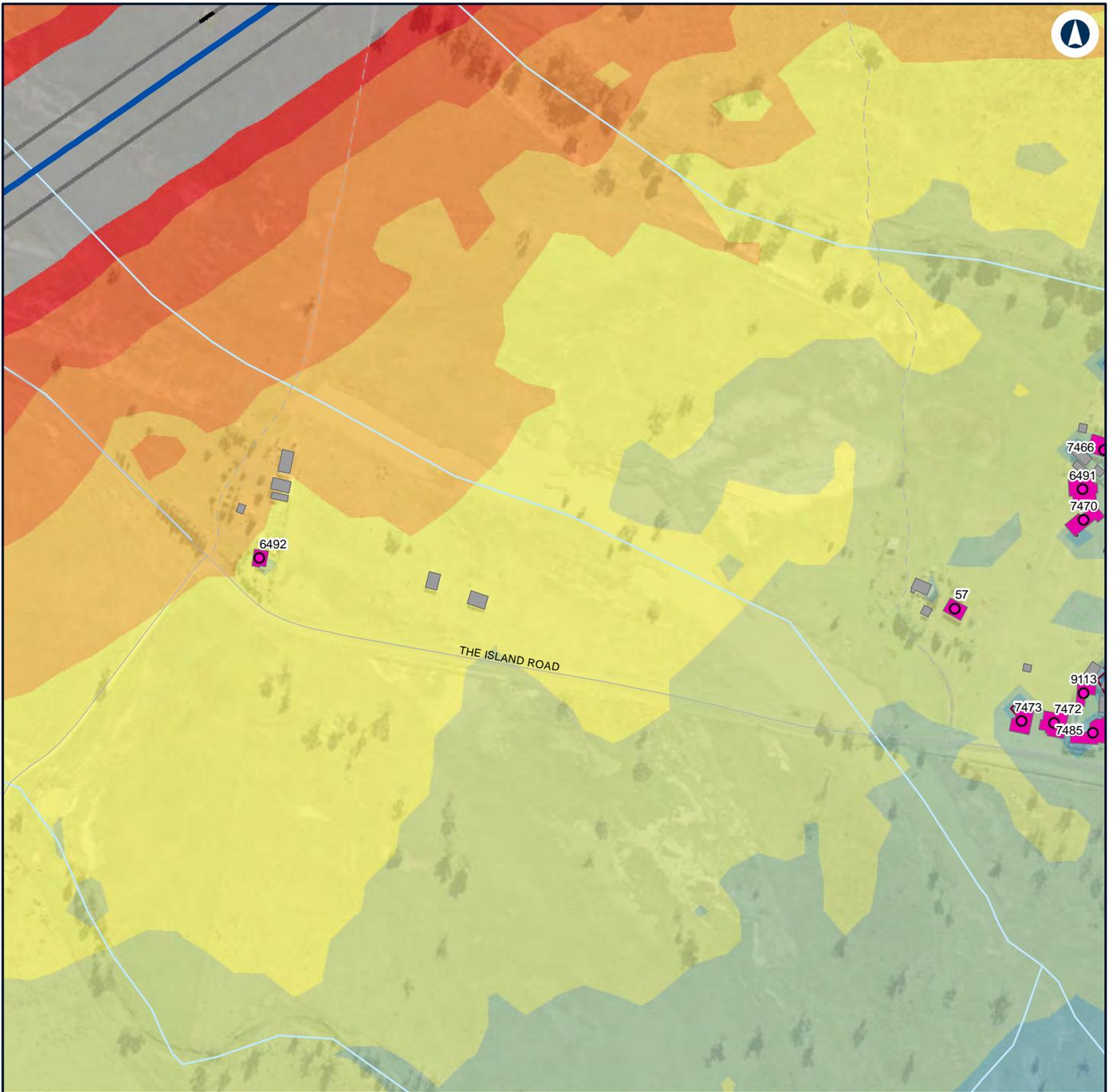
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Scale: 1:5,000

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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	60 - 65
Structure type	30 - 35	65 - 70
Residential	35 - 40	70 - 75
Other	40 - 45	> 75
Residential	45 - 50	
Alignment	50 - 55	
Night-time noise management level	55 - 60	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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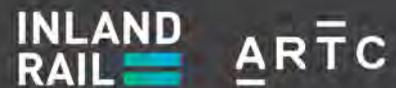
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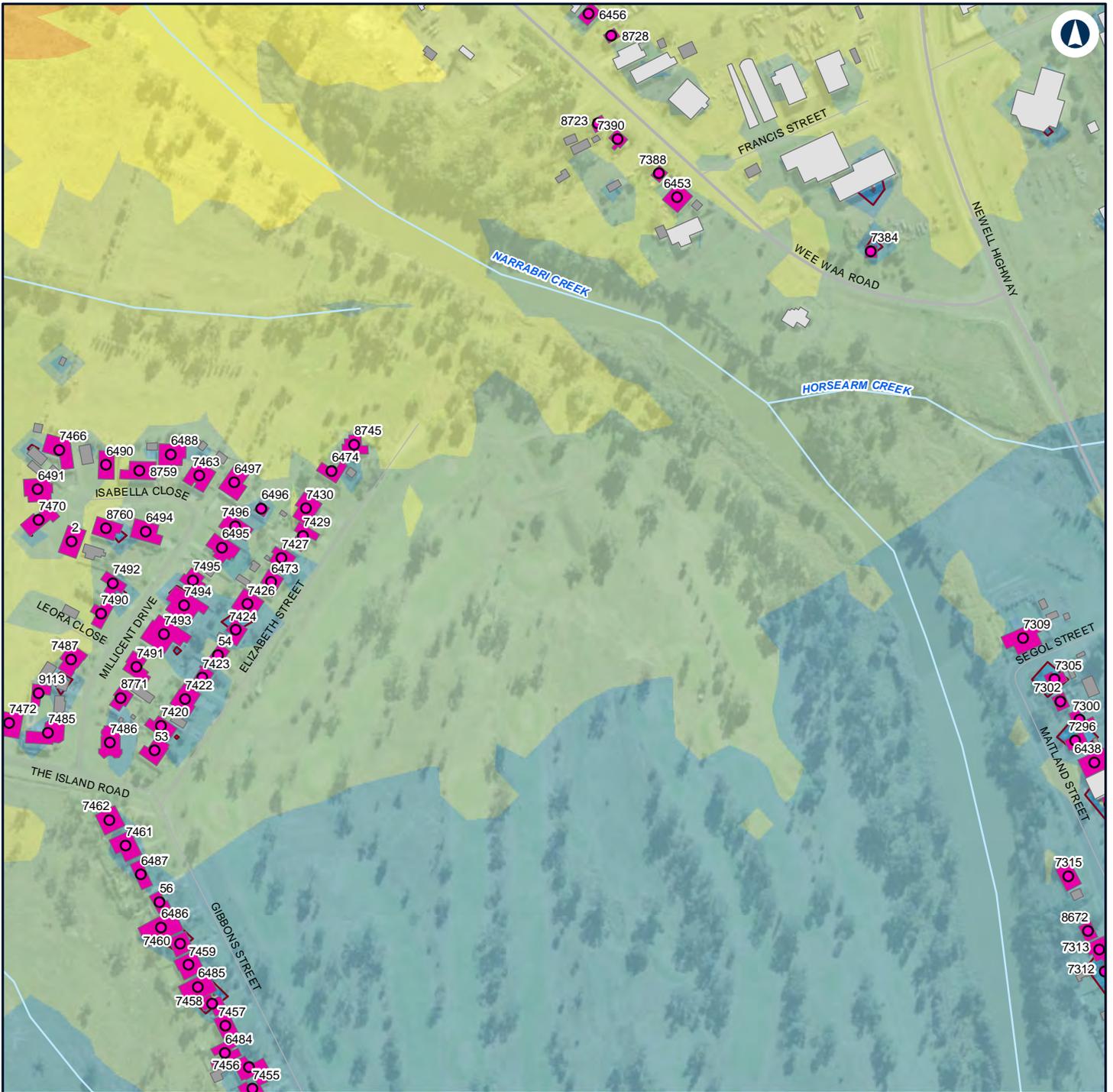
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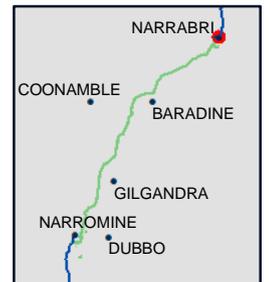
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential
- Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



Coordinate System: GDA 1994 MGA Zone 55

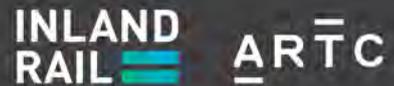
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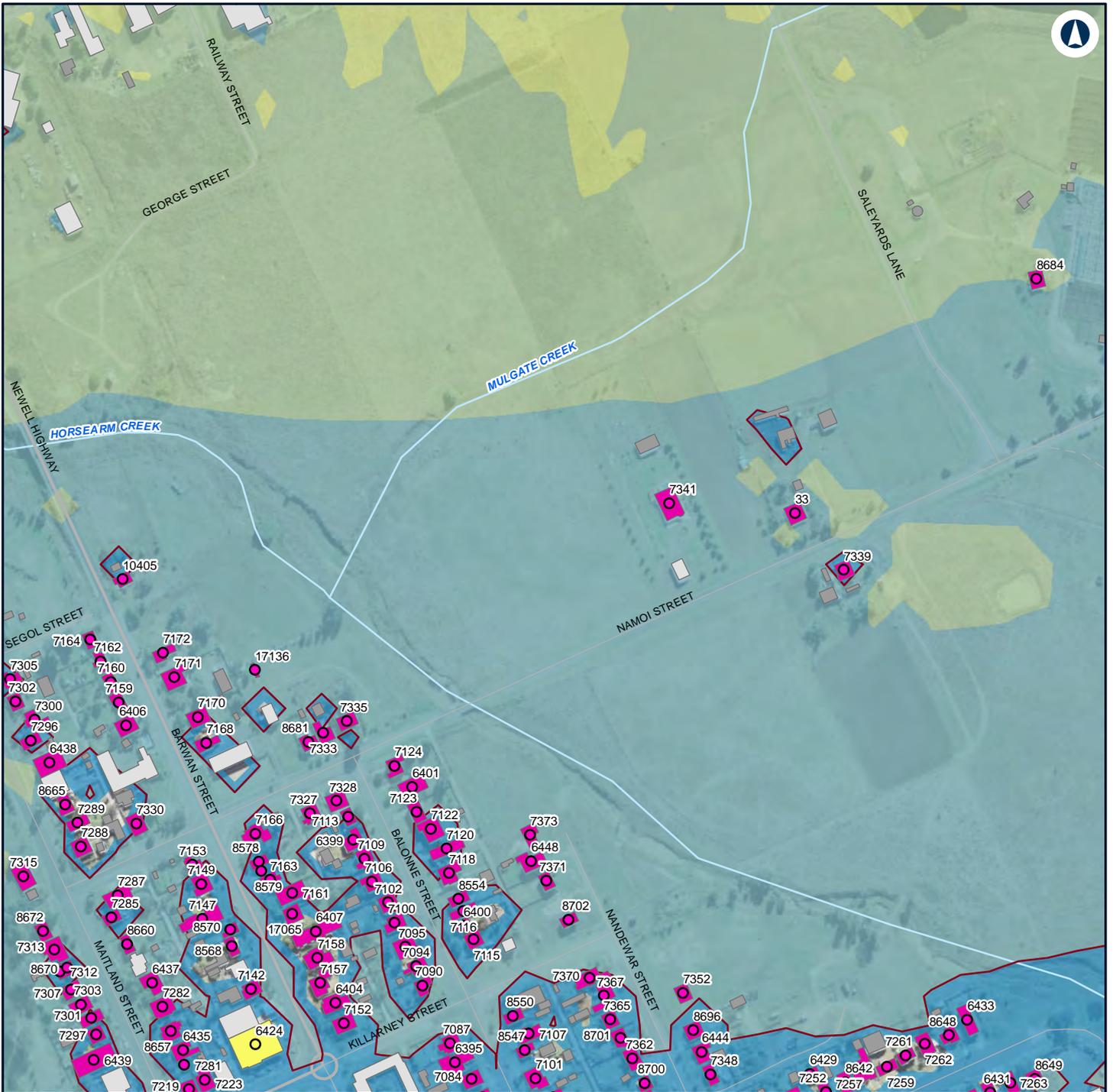
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LEGEND

Structure type	— Night-time noise management level
● Community	Noise level (dBA L_{Aeq} 15 minute)
● Residential	30 - 35
■ Commercial/Industrial	35 - 40
■ Community	40 - 45
■ Other	45 - 50
■ Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

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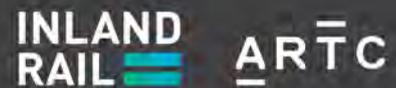
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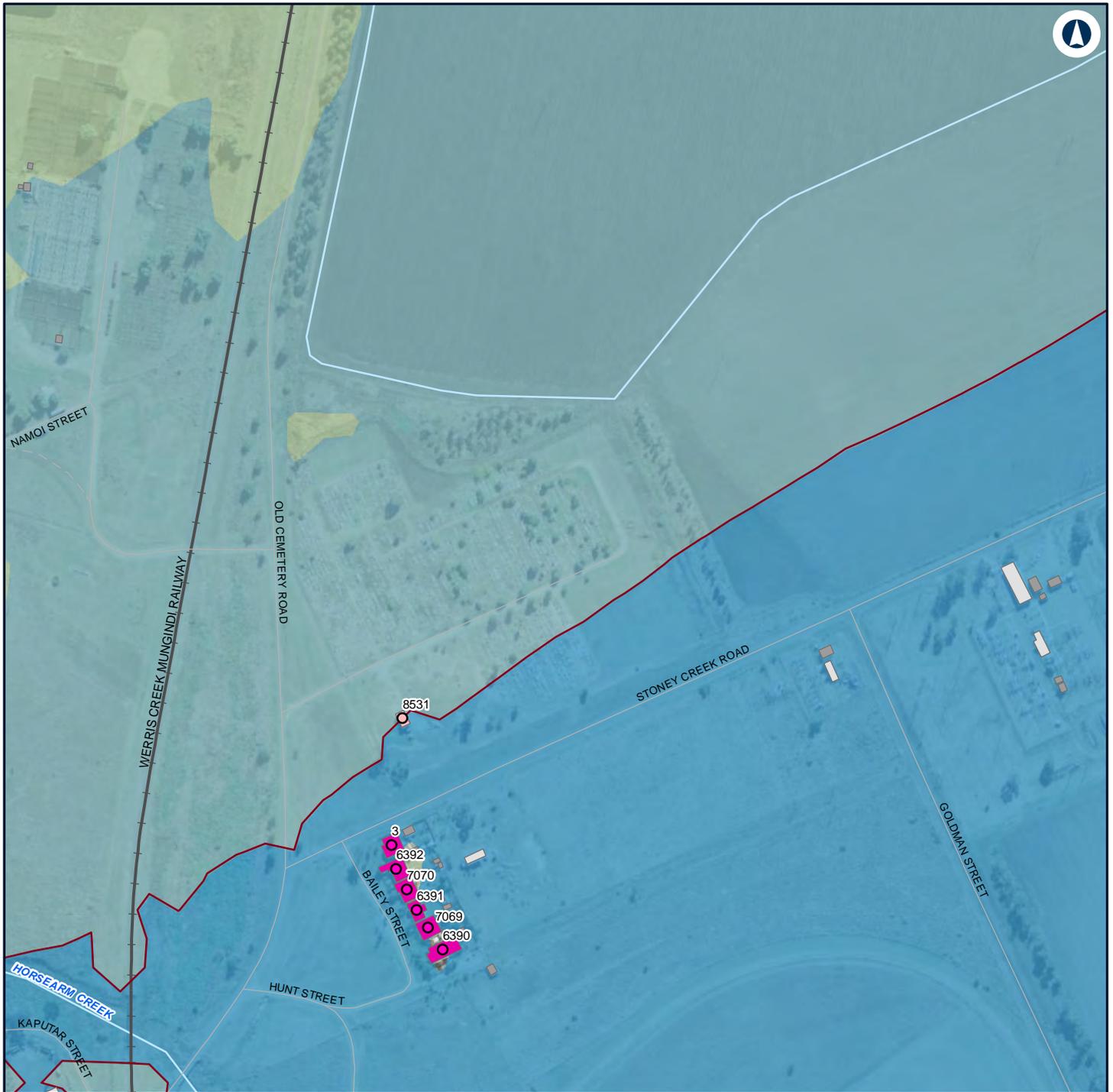
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type	— Night-time noise management level
○ Passive recreation	Noise level (dBA L_{Aeq} 15 minute)
● Residential	30 - 35
■ Commercial/Industrial	35 - 40
■ Other	40 - 45
■ Passive recreation	
■ Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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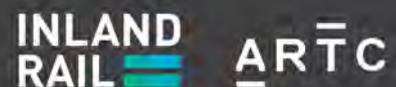
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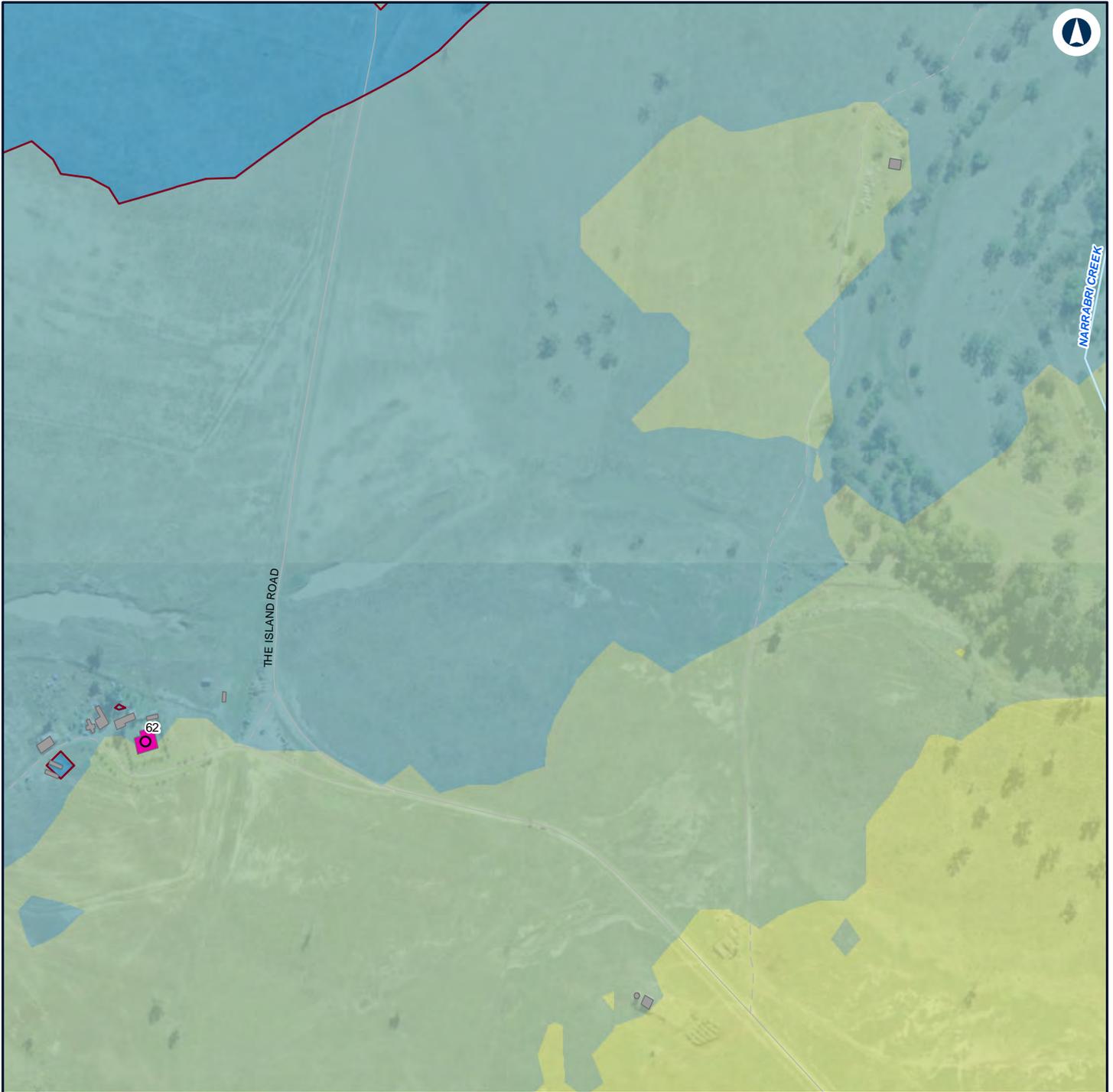
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Scale: 1:5,000

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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35

- 35 - 40
- 40 - 45
- 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



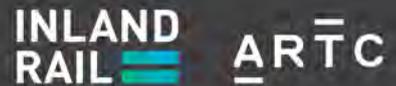
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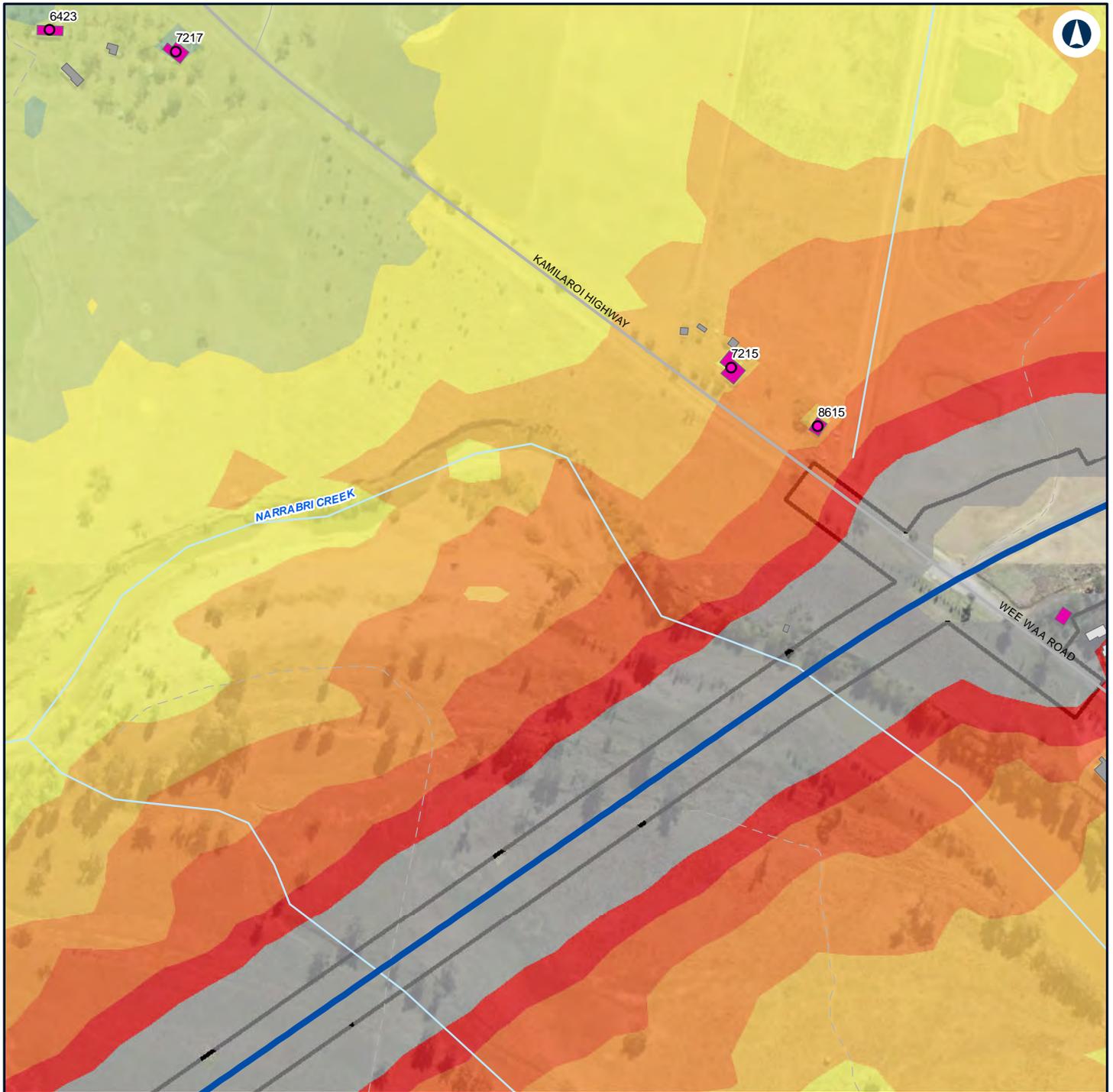
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Commercial/Industrial	50 - 55	
Other	55 - 60	
Residential	60 - 65	
Alignment	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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Coordinate System: GDA 1994 MGA Zone 55

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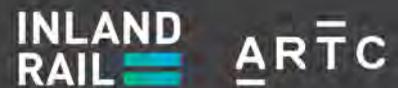
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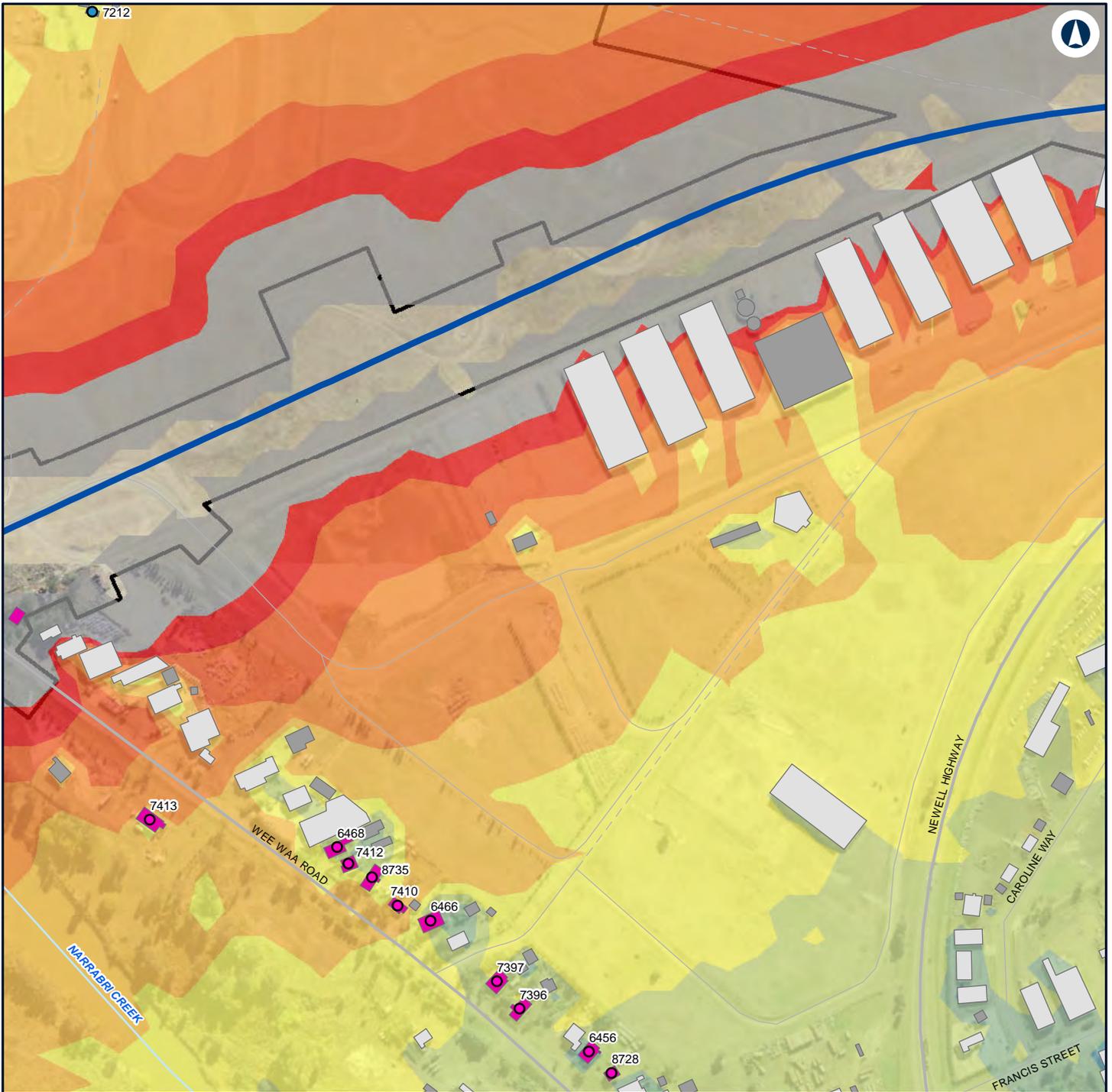
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

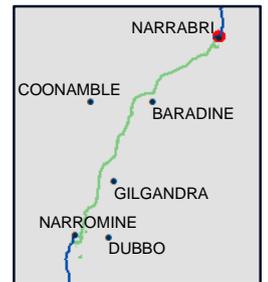


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LEGEND

Construction footprint	Residential	45 - 50
Structure type	Alignment	50 - 55
Active recreation	Night-time noise management level	55 - 60
Residential	Noise level (dBA L_{Aeq} 15 minute)	60 - 65
Active recreation	30 - 35	65 - 70
Commercial/Industrial	35 - 40	70 - 75
Other	40 - 45	> 75



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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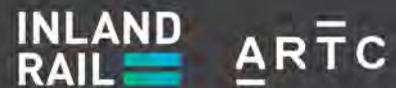
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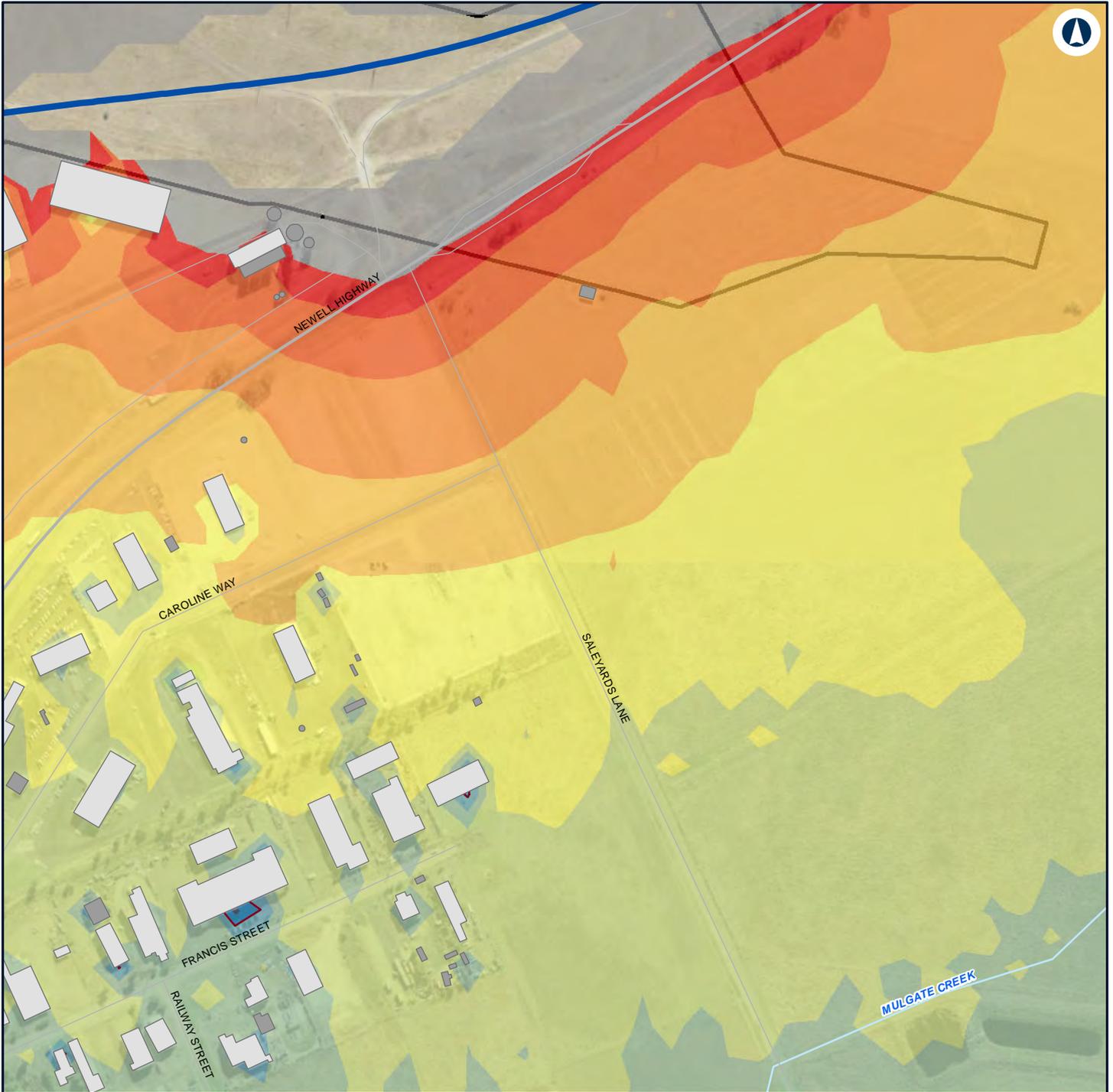
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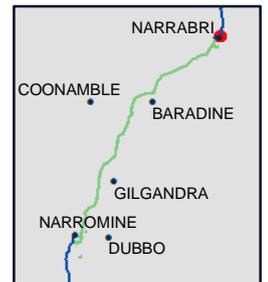


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LEGEND

- Construction footprint
- Commercial/Industrial
- Other
- Alignment
- Night-time noise management level
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

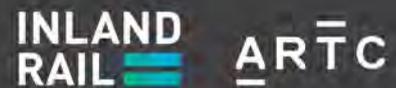


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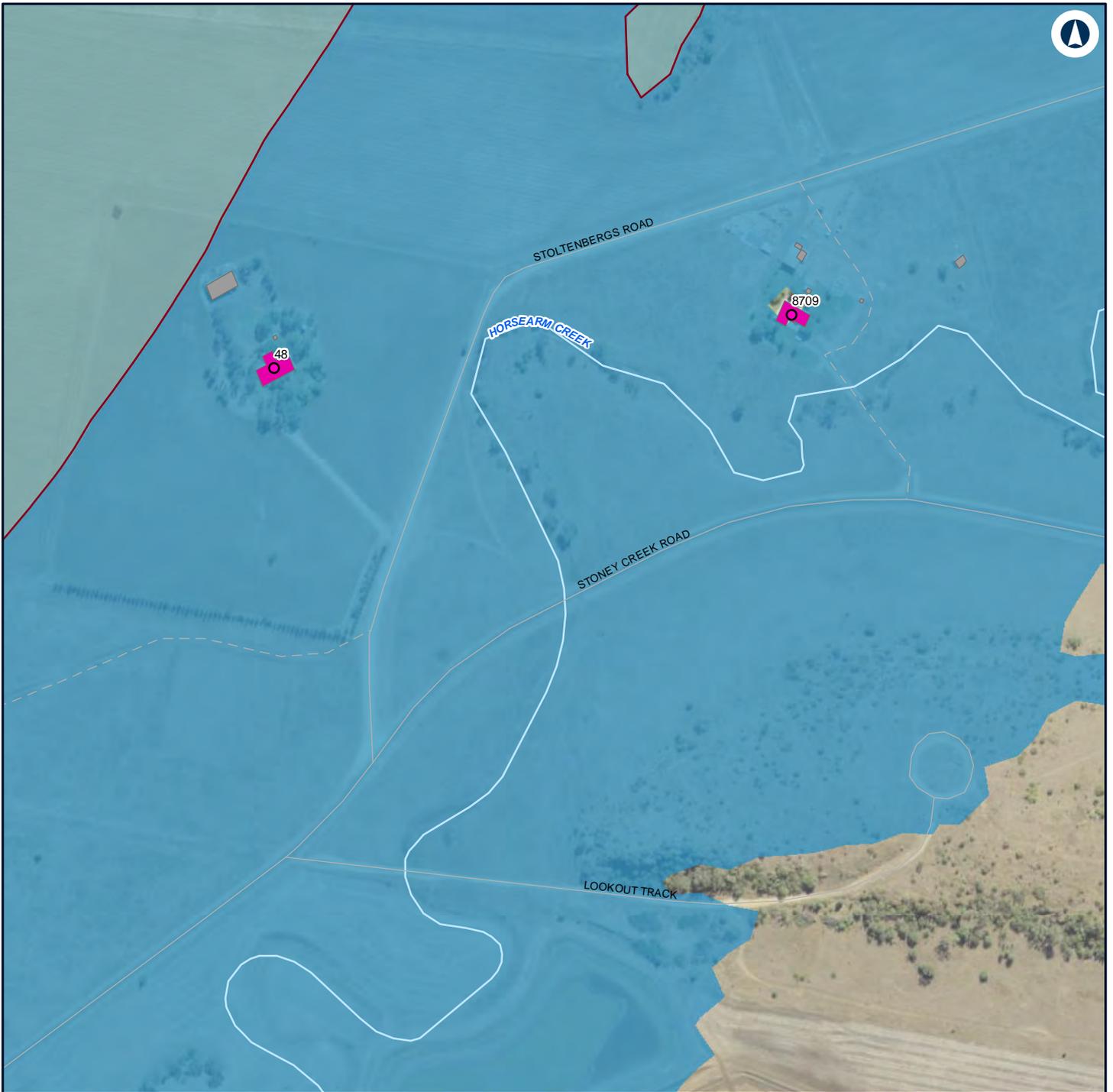
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LEGEND

Structure type

- Residential
- Other
- Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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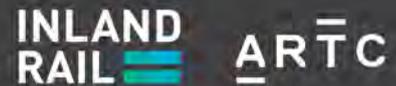
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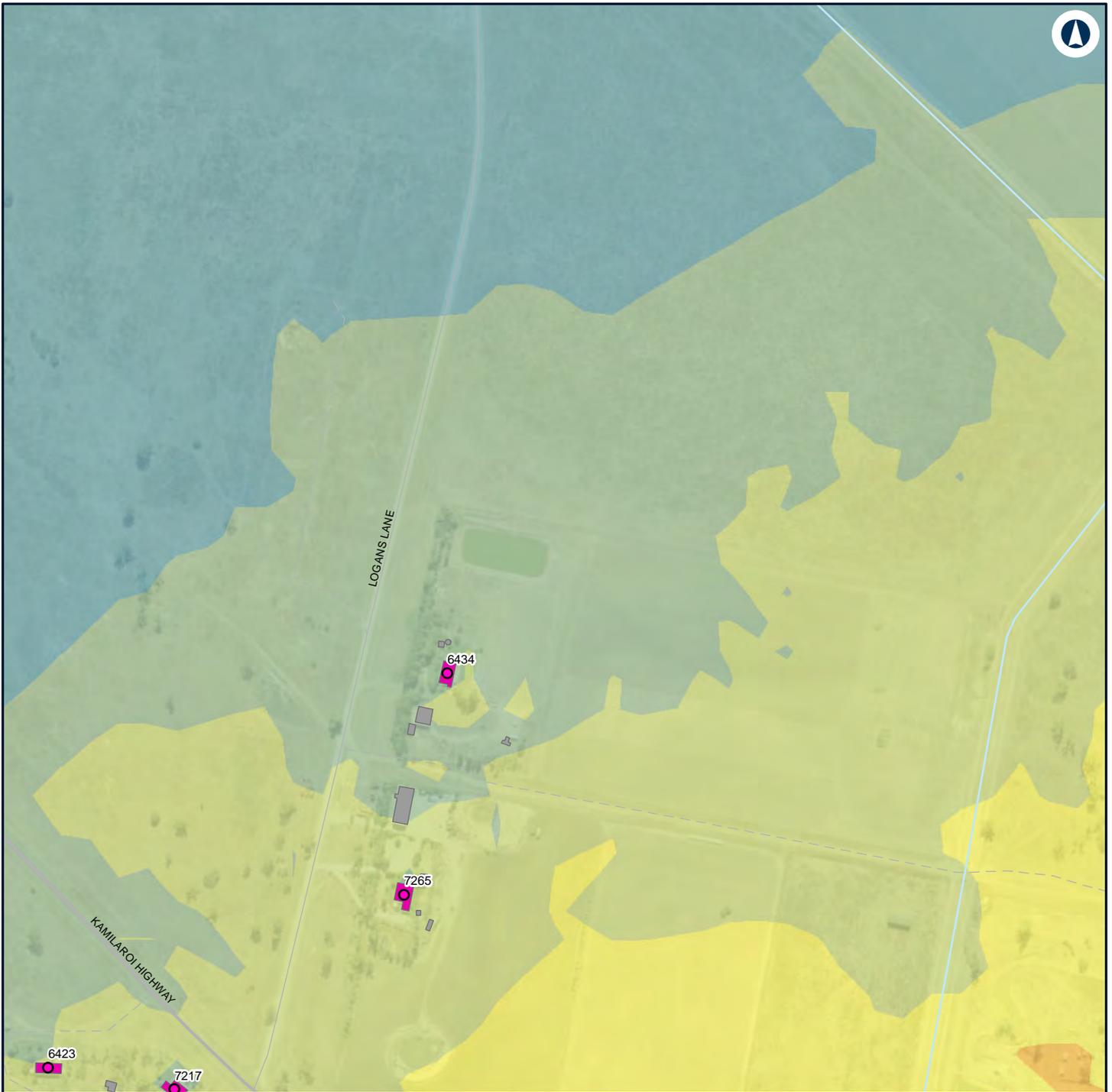
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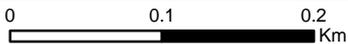
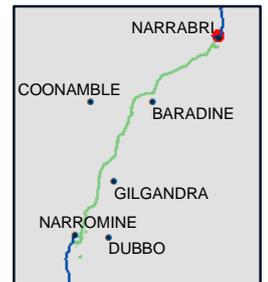


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LEGEND

Structure type		45 - 50
● Residential		50 - 55
■ Other		55 - 60
● Residential		
Noise level (dBA L_{Aeq} 15 minute)		
■ 35 - 40		
■ 40 - 45		

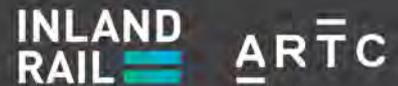


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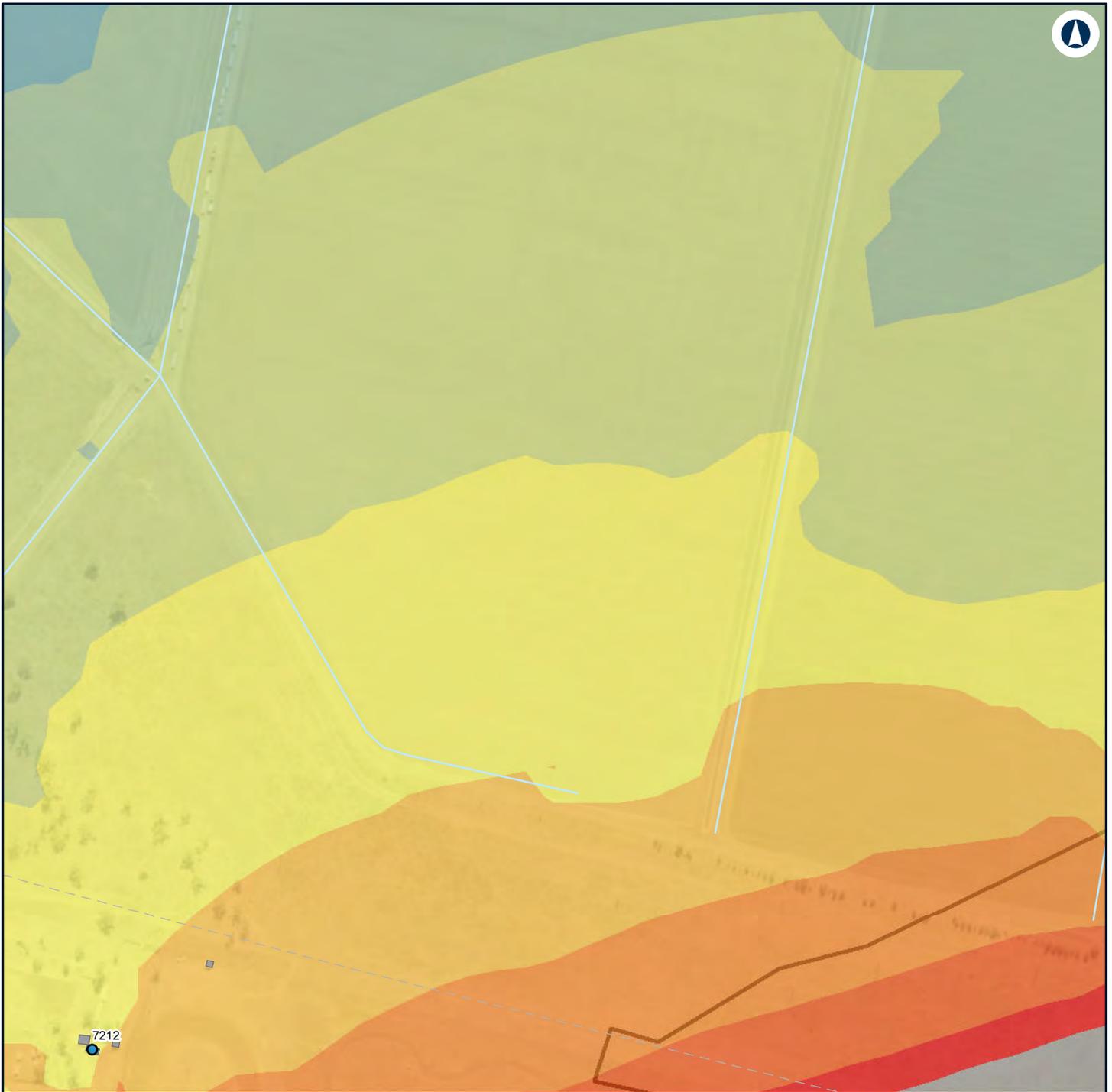
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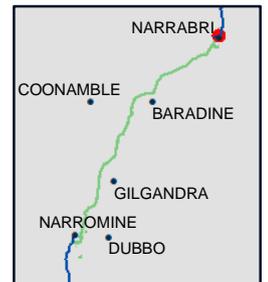


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LEGEND

Construction footprint	40 - 45	> 75 noise level symbol"/> > 75
Structure type	45 - 50	
Active recreation	50 - 55	
Active recreation	55 - 60	
Other	60 - 65	
Noise level (dBA L_{Aeq} 15 minute)	65 - 70	
35 - 40	70 - 75	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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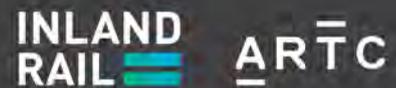
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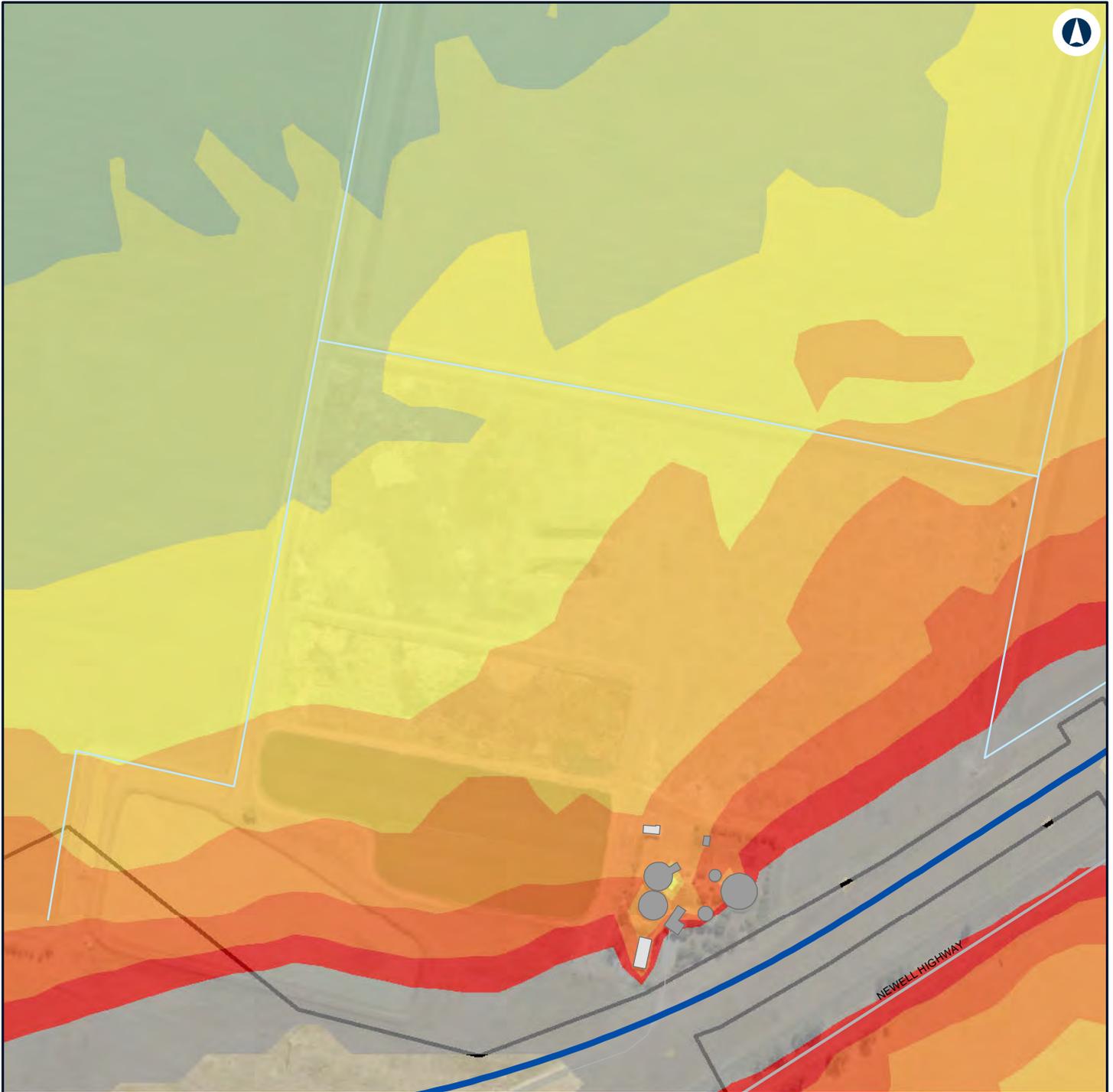
Author: GHD

Scale: 1:5,000

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LEGEND

Construction footprint	50 - 55
Commercial/Industrial	55 - 60
Other	60 - 65
Alignment	65 - 70
Noise level (dBA L_{Aeq} 15 minute)	70 - 75
40 - 45	> 75
45 - 50	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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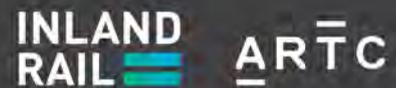
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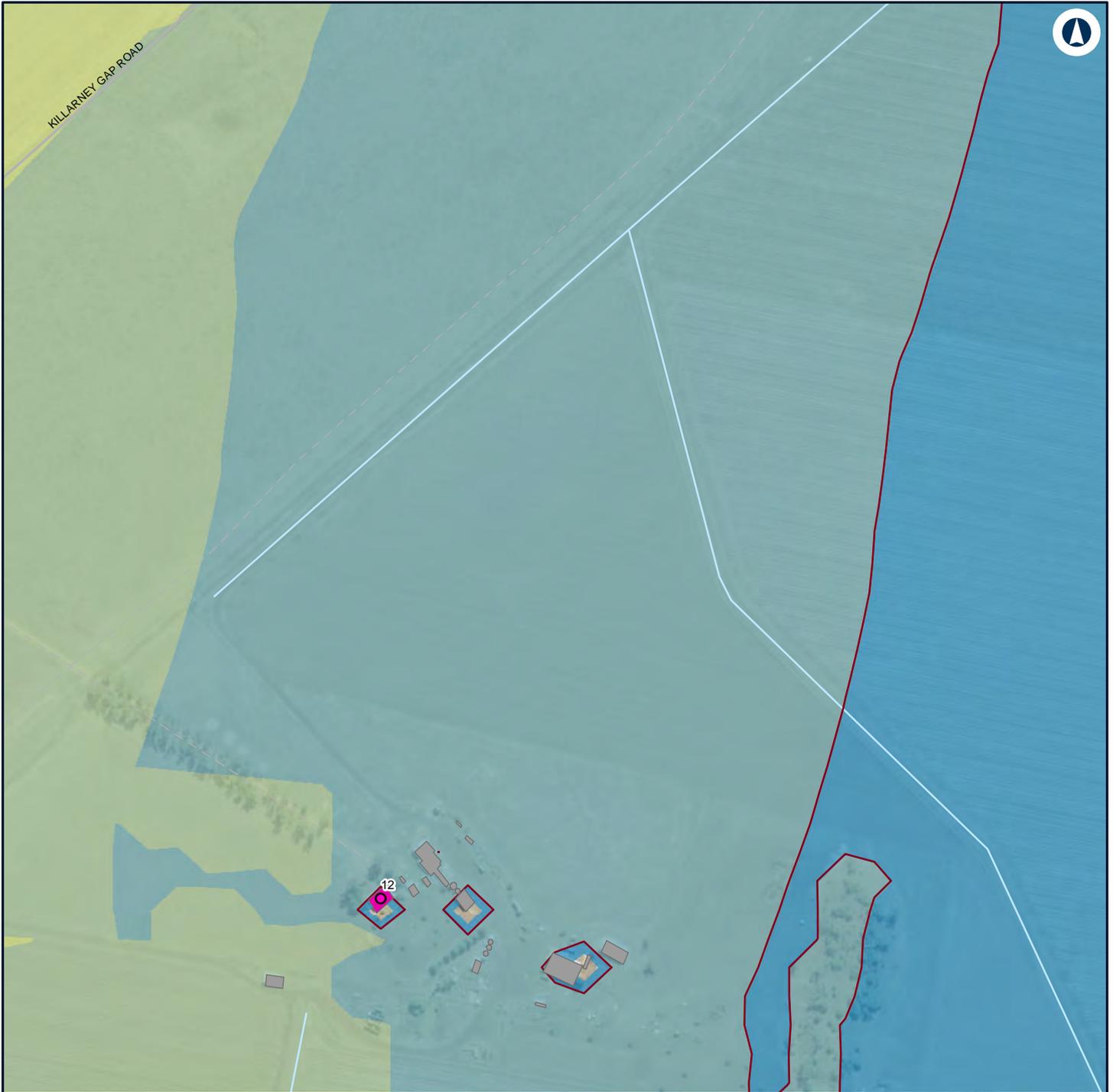
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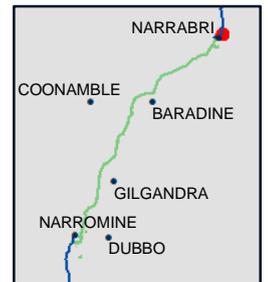


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LEGEND

- Structure type**
- Other
 - Residential
- Noise level (dBA L_{Aeq} 15 minute)**
- 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50
- Night-time noise management level



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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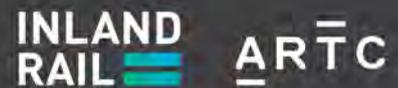
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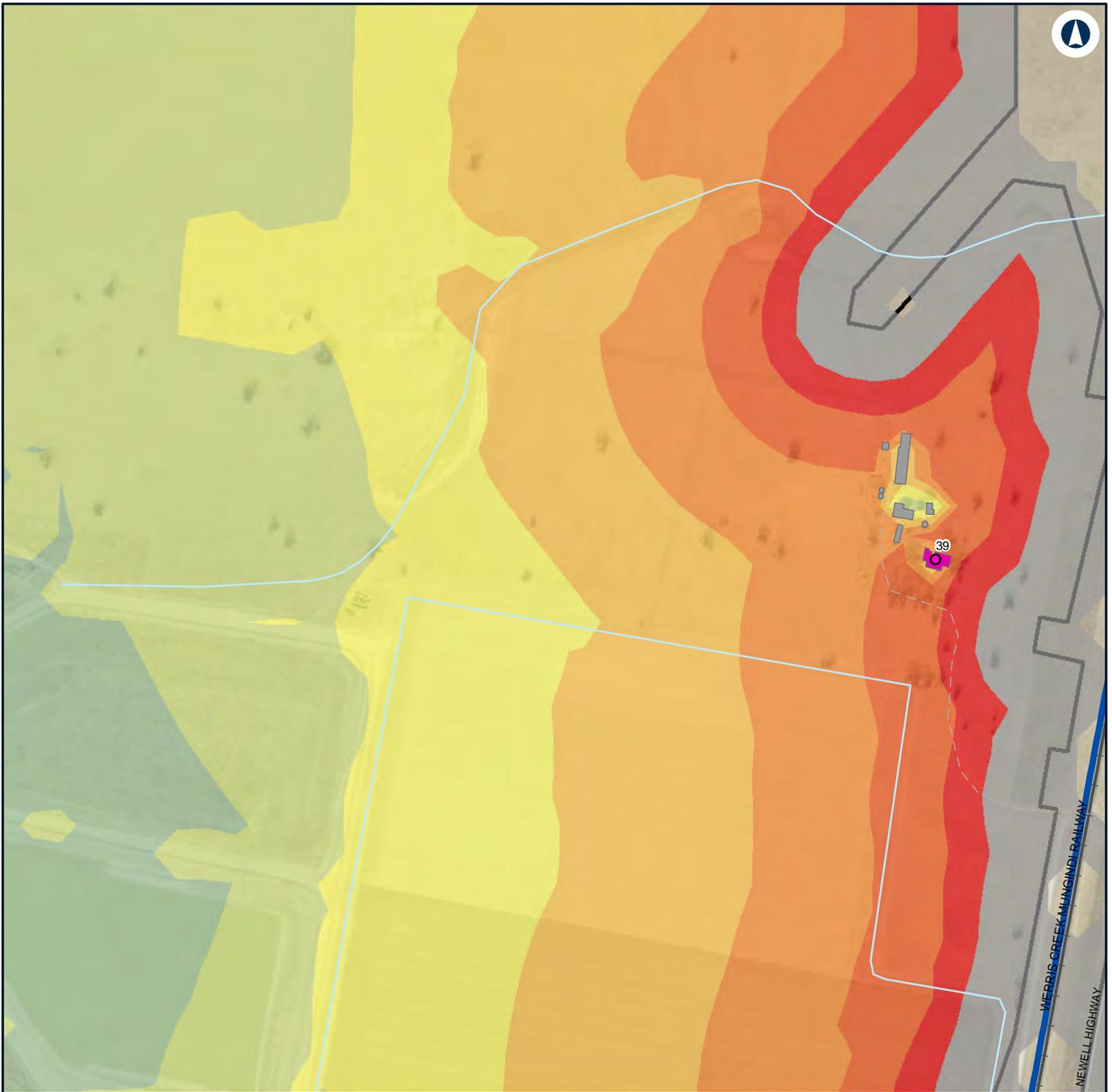
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	70 - 75
Structure type	40 - 45	> 75
Residential	45 - 50	
Other	50 - 55	
Residential	55 - 60	
Alignment	60 - 65	
	65 - 70	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil



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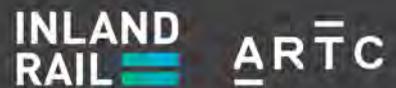
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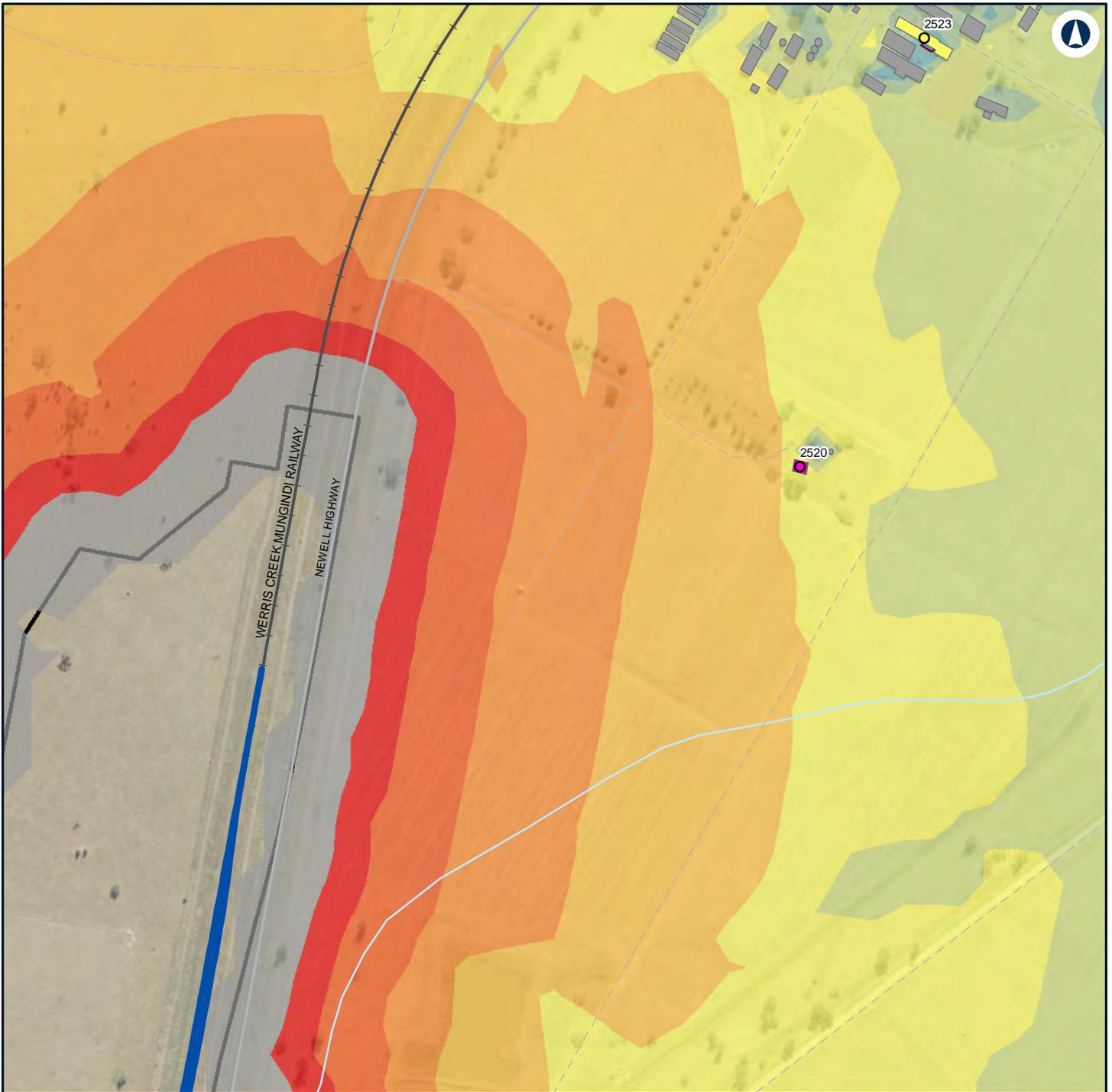
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

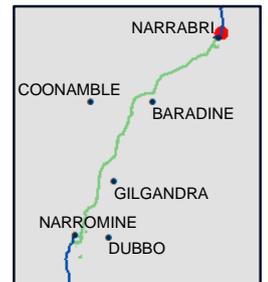


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LEGEND

Construction footprint	Residential	45 - 50
Structure type	Alignment	50 - 55
Community	Night-time noise management level	55 - 60
Residential	Noise level (dBA L_{Aeq} 15 minute)	60 - 65
Commercial/Industrial	30 - 35	65 - 70
Community	35 - 40	70 - 75
Other	40 - 45	> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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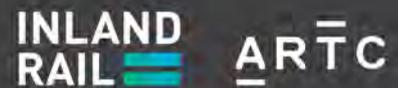
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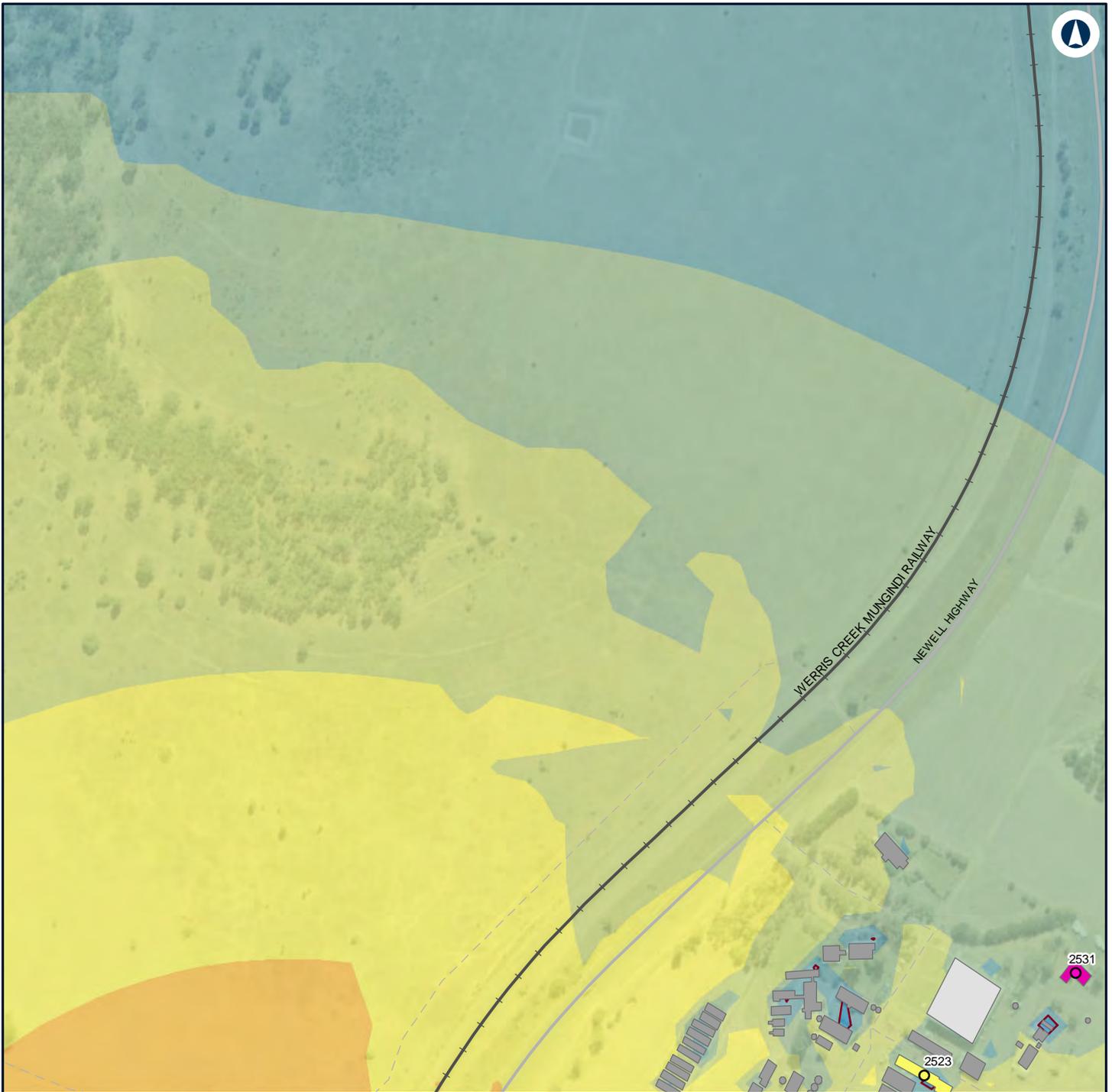
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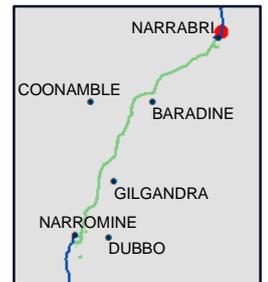


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LEGEND

Structure type	— Night-time noise management level	■ 55 - 60
● Community	Noise level (dBA L_{Aeq} 15 minute)	
● Residential	■ 30 - 35	
■ Commercial/Industrial	■ 35 - 40	
■ Community	■ 40 - 45	
■ Other	■ 45 - 50	
■ Residential	■ 50 - 55	



0 0.1 0.2 Km

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TECHNICAL REPORT

8

Noise and vibration assessment – construction and other operations

Appendix G Construction noise contours: scenario ROAD03 – road earthworks

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT





LEGEND

Structure type

-  Residential
-  Other
-  Residential

Noise level (dBA L

Aeq 15 minute)

-  30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



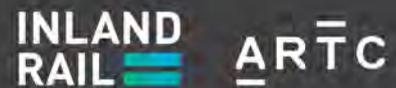
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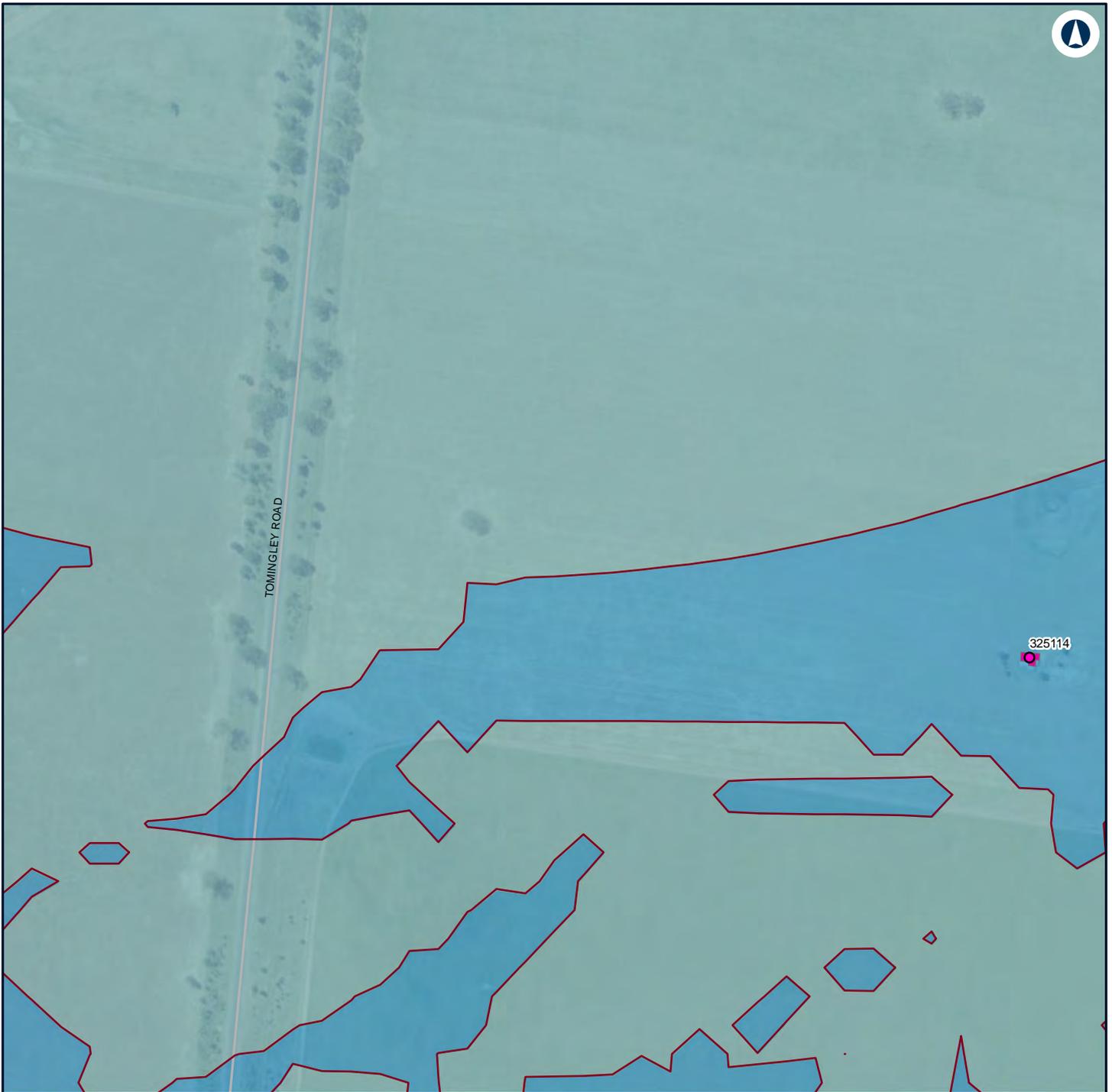
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LEGEND

Structure type

-  Residential
-  Residential

Noise level (dBA L

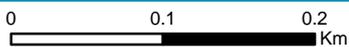
Aeq 15 minute)

-  30 - 35
-  35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



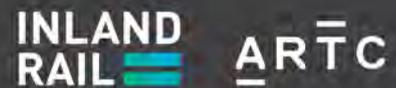
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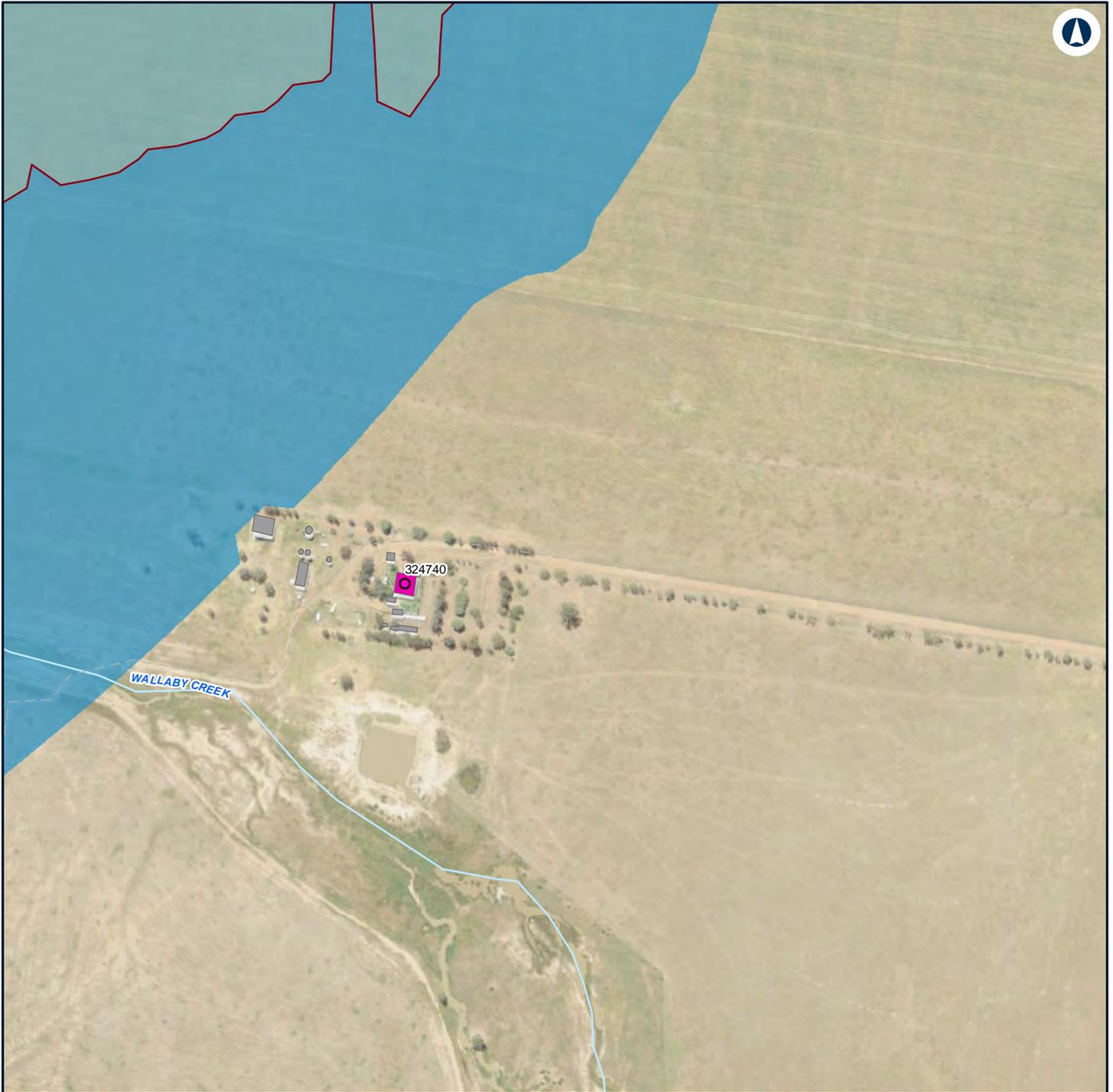
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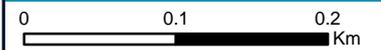


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



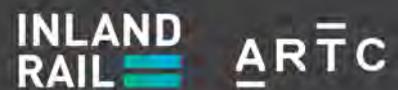
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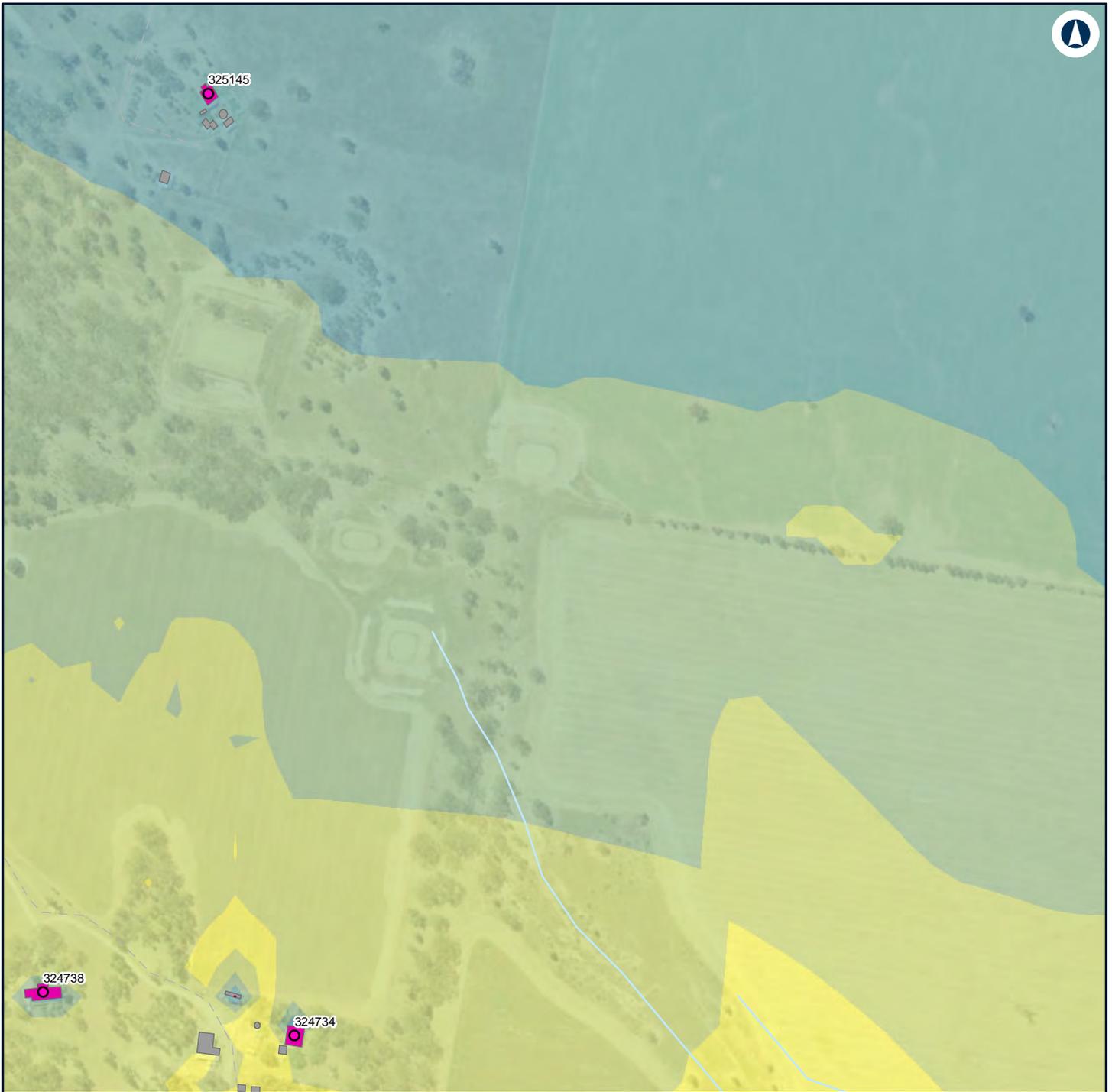
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LEGEND

Structure type		40 - 45
● Residential	■	45 - 50
■ Other	■	50 - 55
■ Residential		
Noise level (dBA L		
Aeq 15 minute)		
■		35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



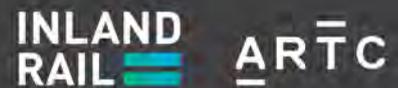
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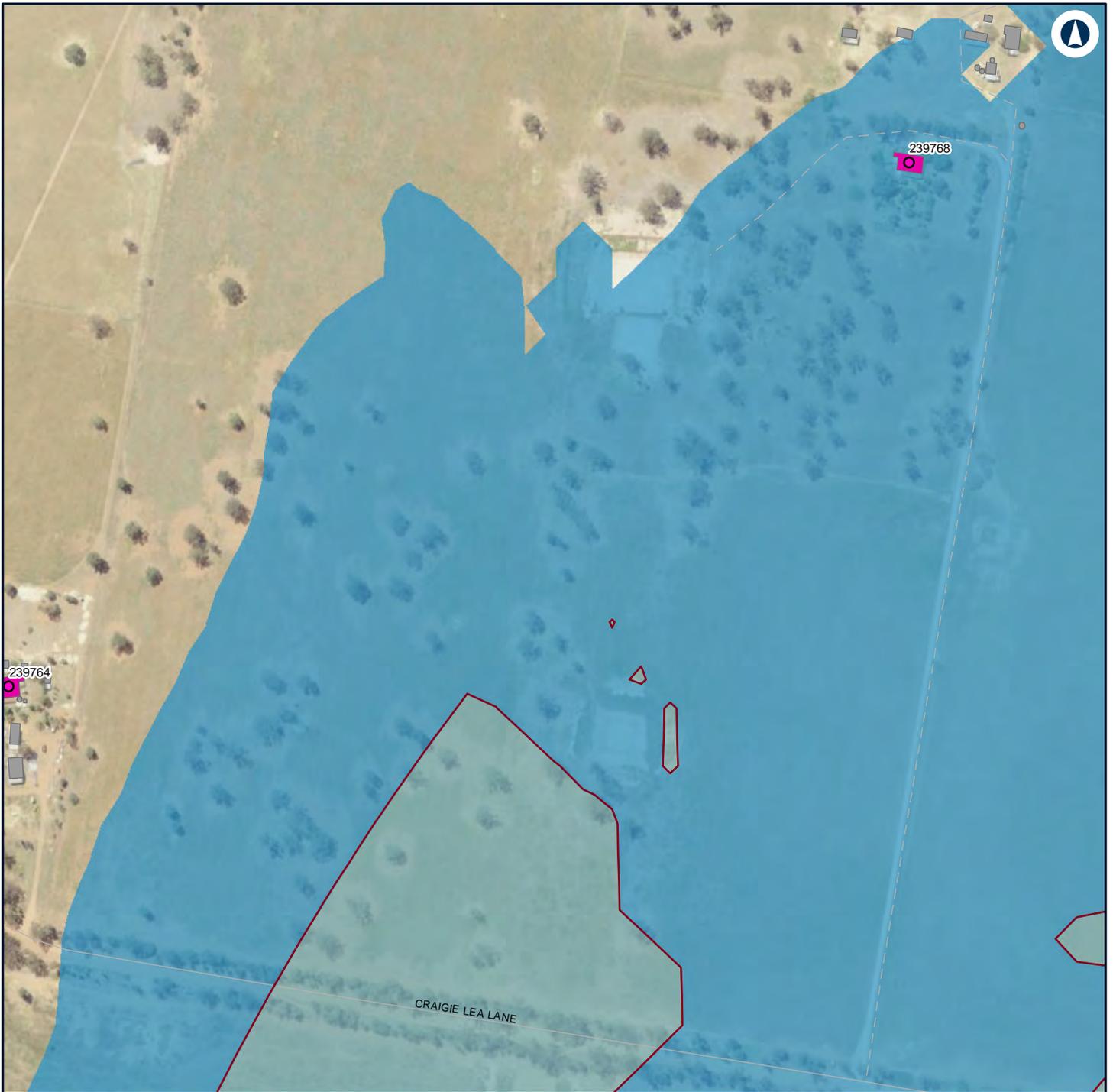
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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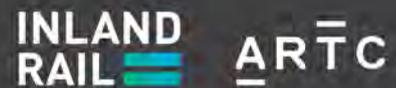
Date: 16/07/2020

Paper: A4

Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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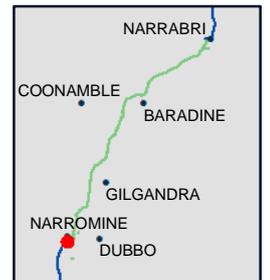
LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



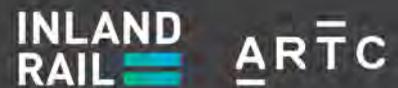
Coordinate System: GDA 1994 MGA Zone 55

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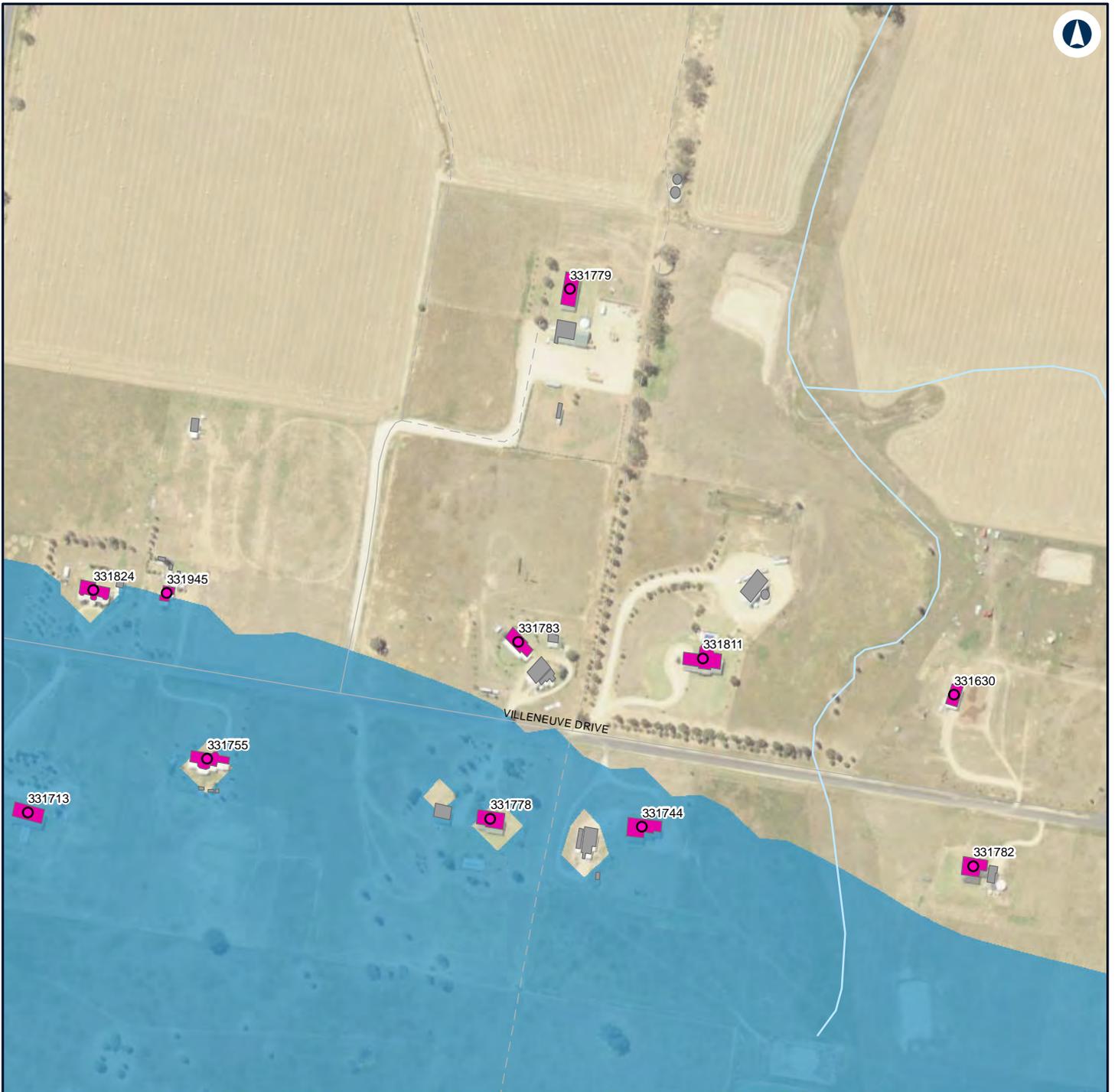
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

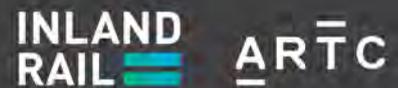
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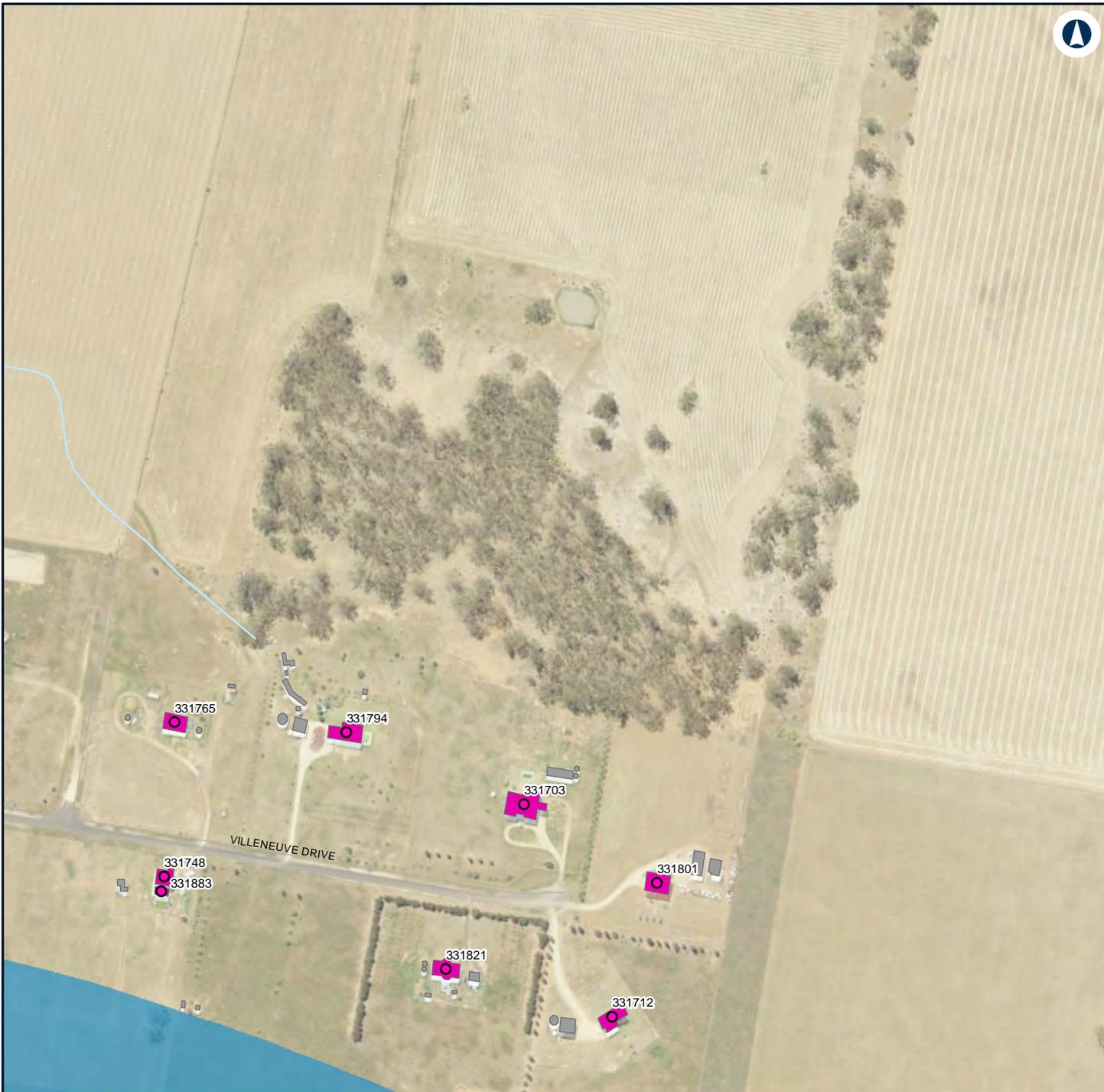
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

-  Residential
-  Other
-  Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 9 of 304



Coordinate System: GDA 1994 MGA Zone 55

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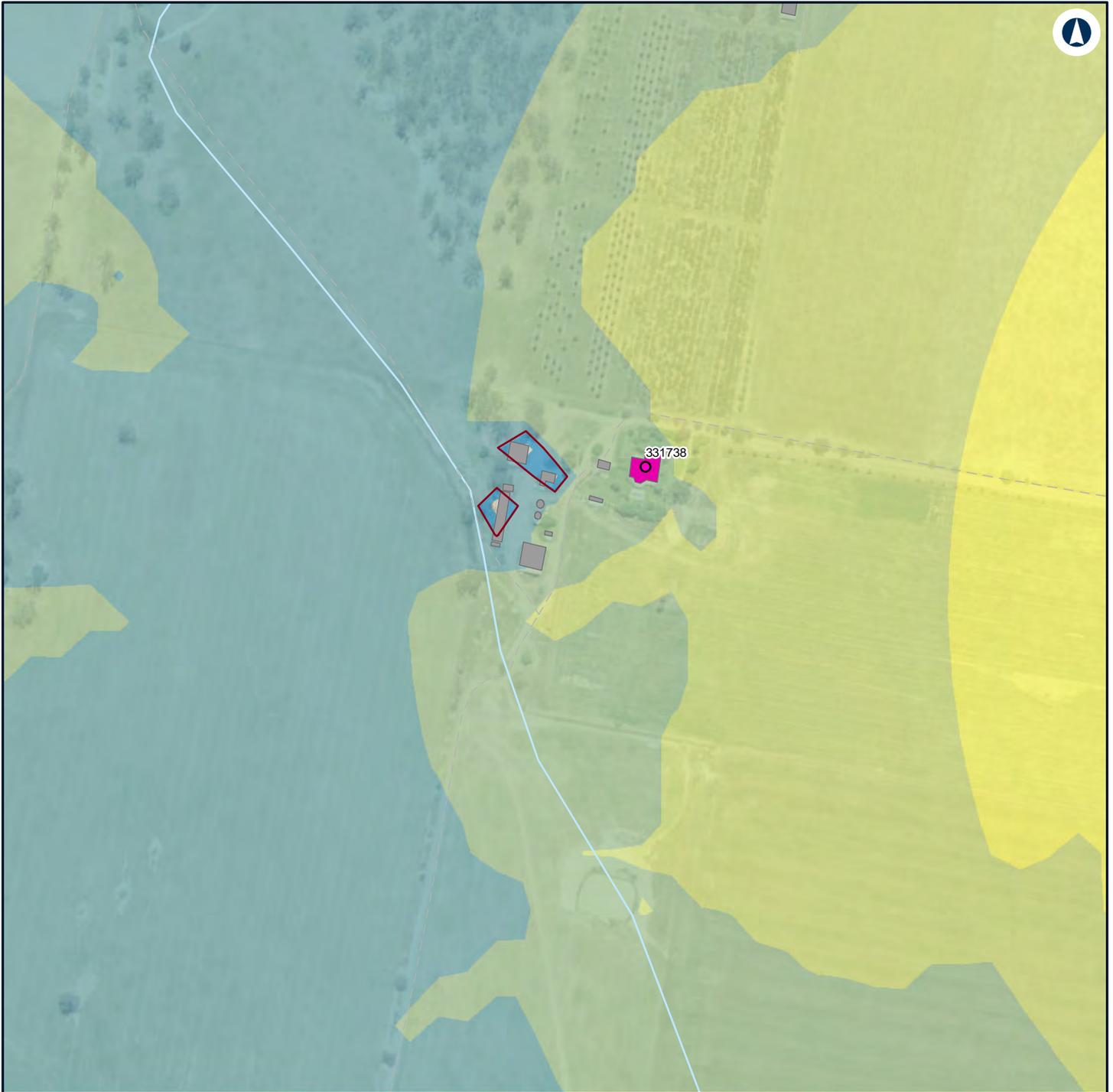
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
■ Residential	■	50 - 55

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

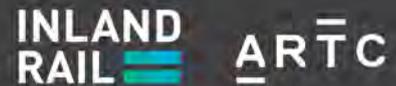
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LEGEND

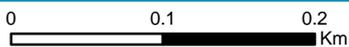
- Structure type**
- 40 - 45
 - Residential
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 11 of 304



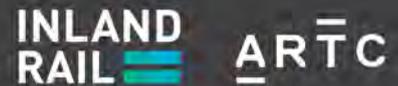
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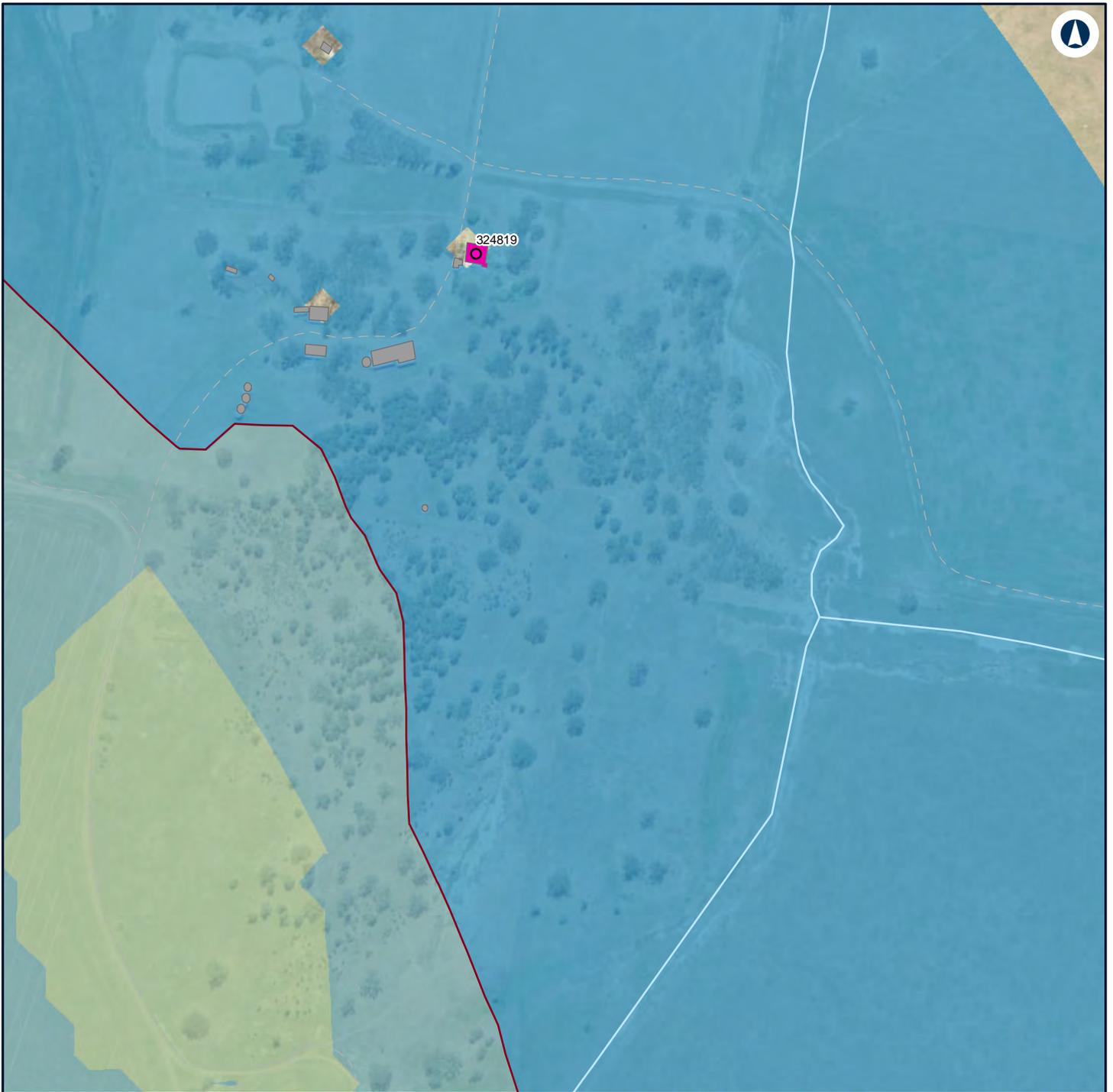
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

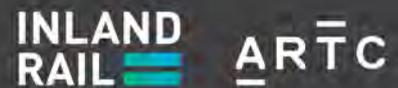
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

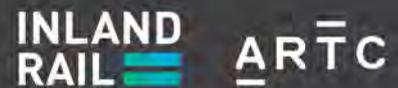
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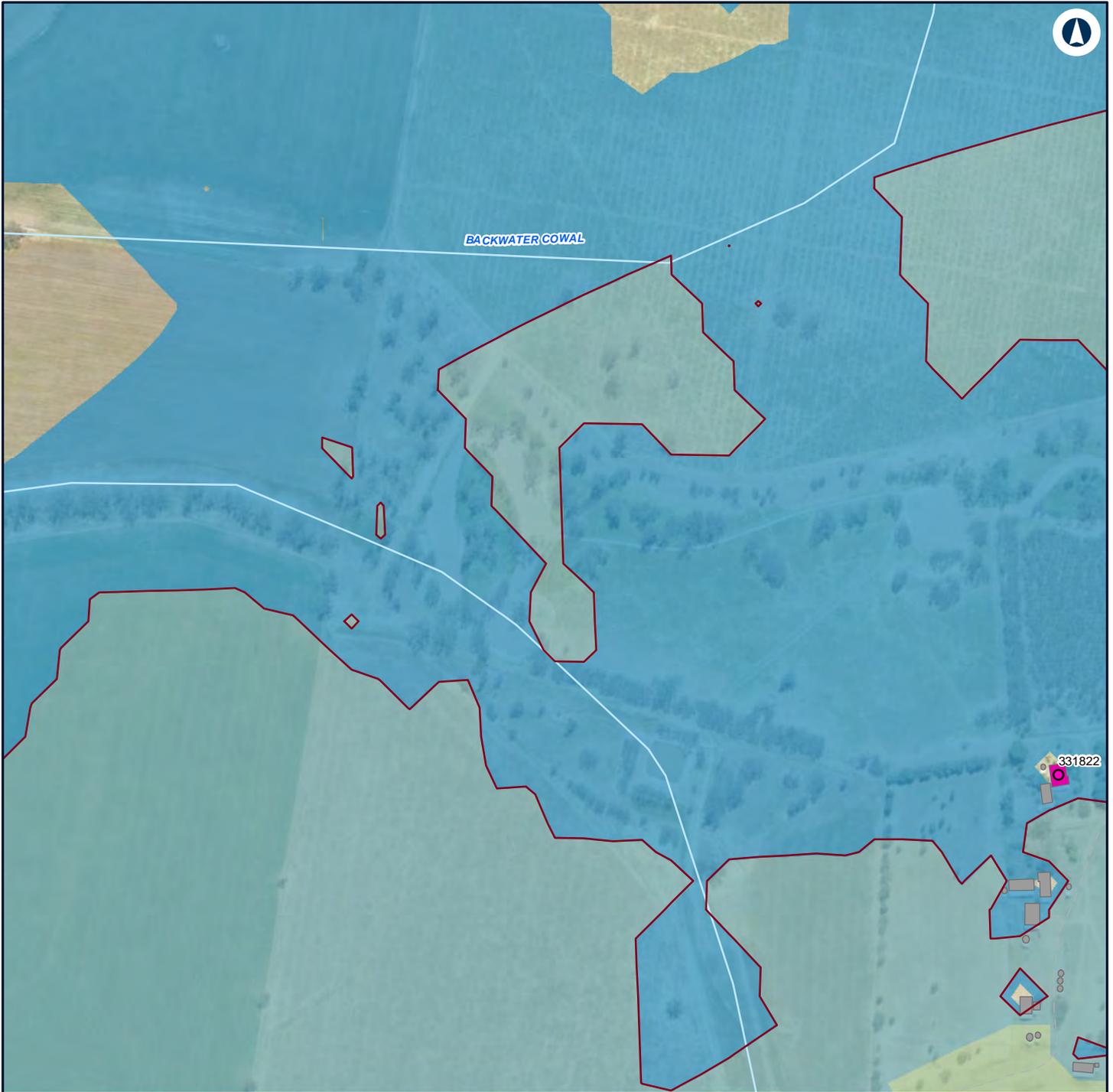
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



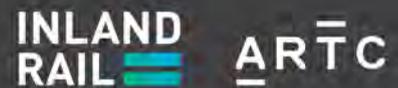
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 15 of 304



Coordinate System: GDA 1994 MGA Zone 55

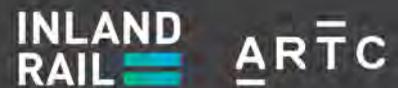
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

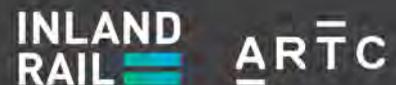
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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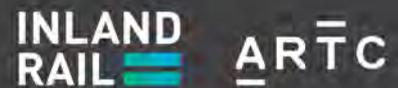
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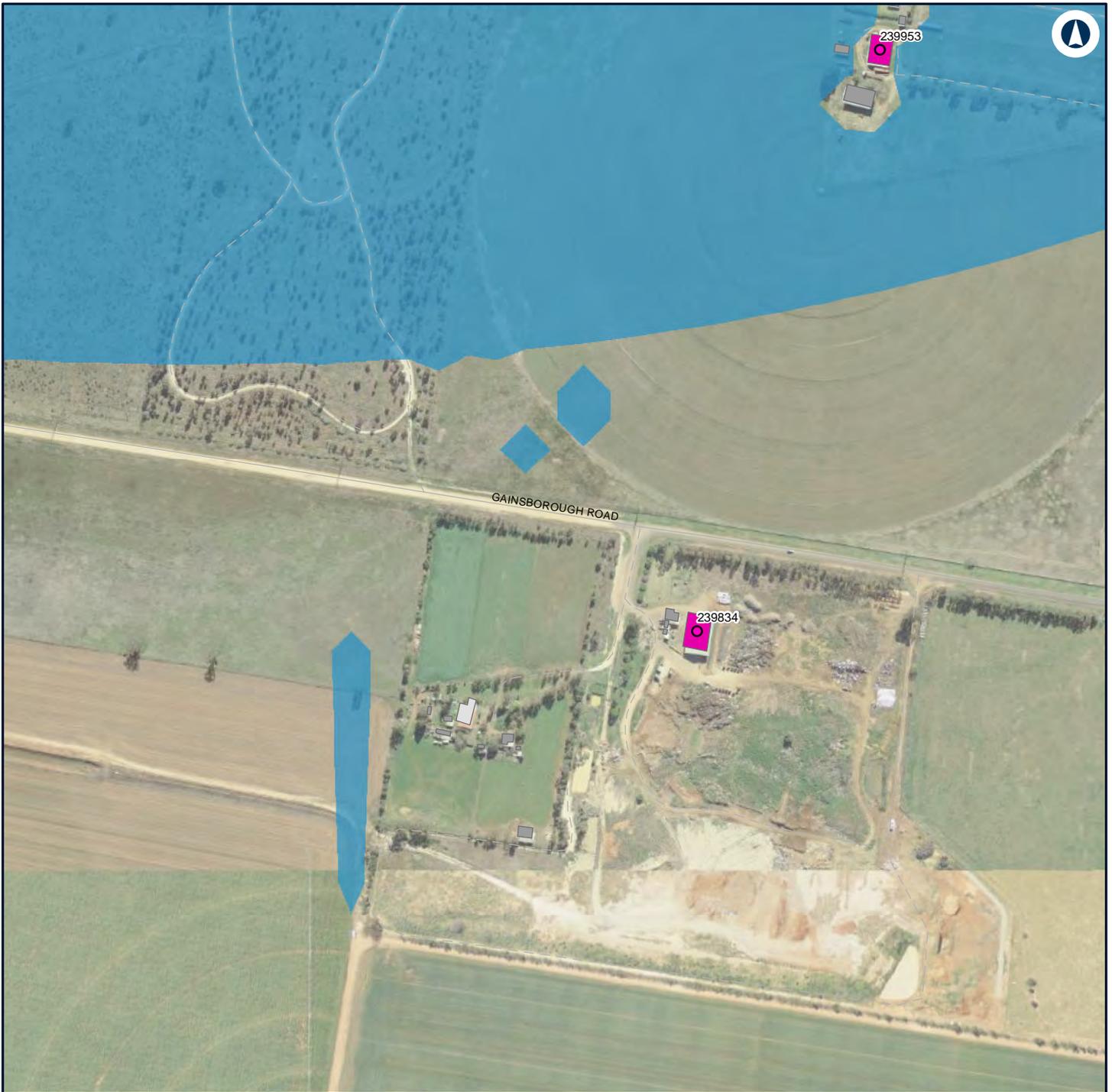
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

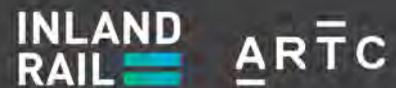
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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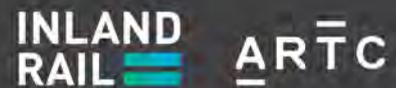
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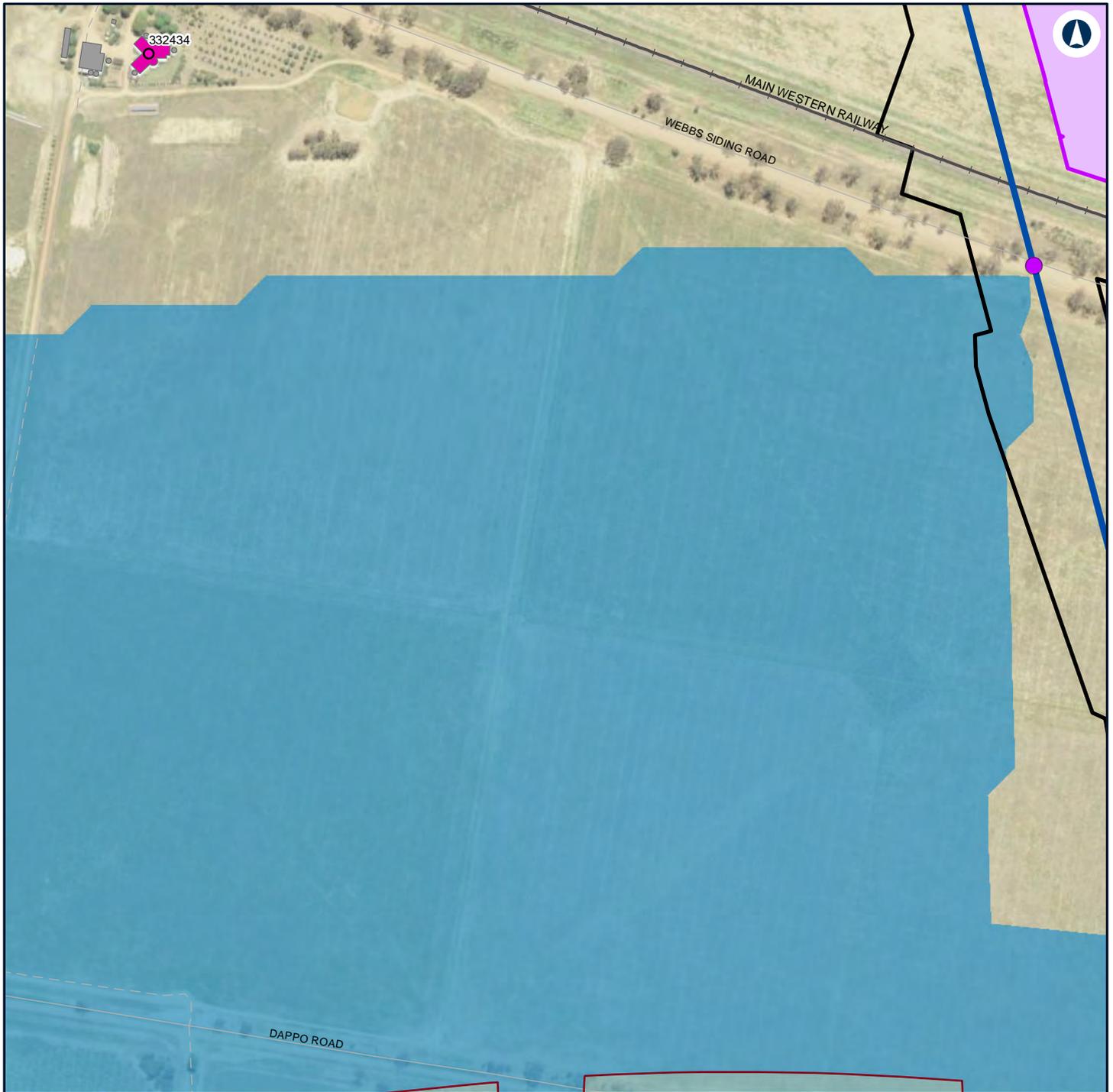
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LEGEND

— Alignment

▭ Construction footprint

Structure type

● Residential

■ Other

■ Residential

Noise level (dBA L

Aeq 15 minute)

■ 30 - 35

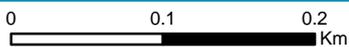
■ 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 20 of 304



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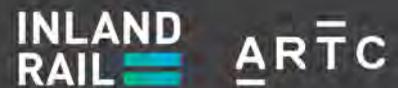
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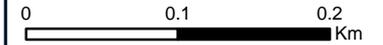
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LEGEND

-  Construction footprint
- Structure type**
-  Residential
-  Other
-  Residential

Noise level (dBA L
Aeq 15 minute)
 30 - 35

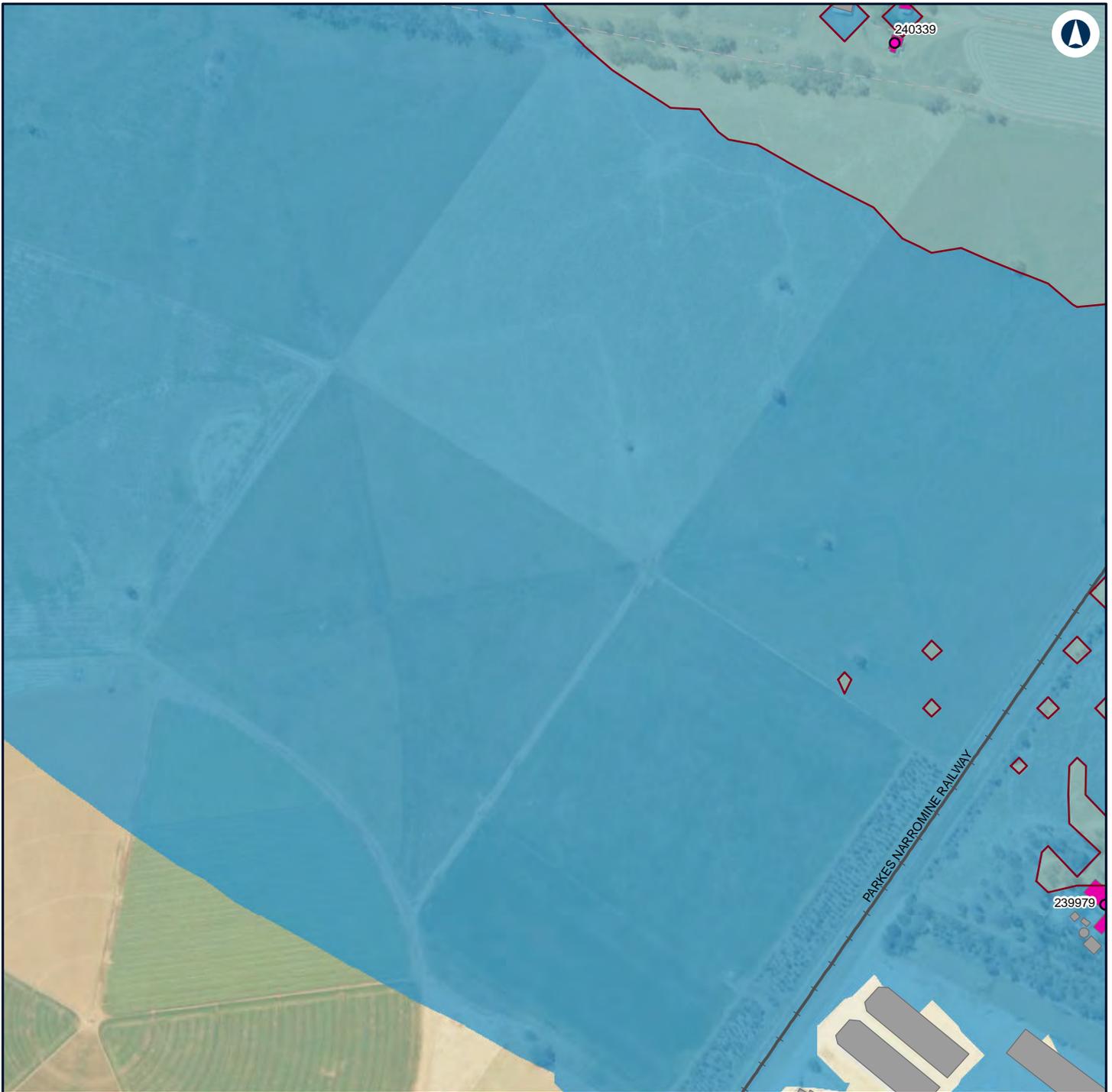


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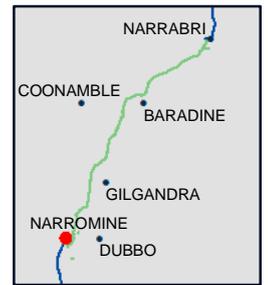


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARRROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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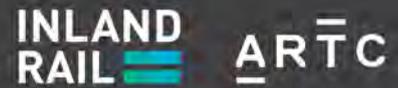
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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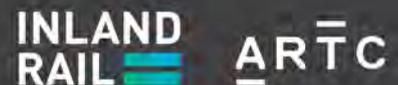
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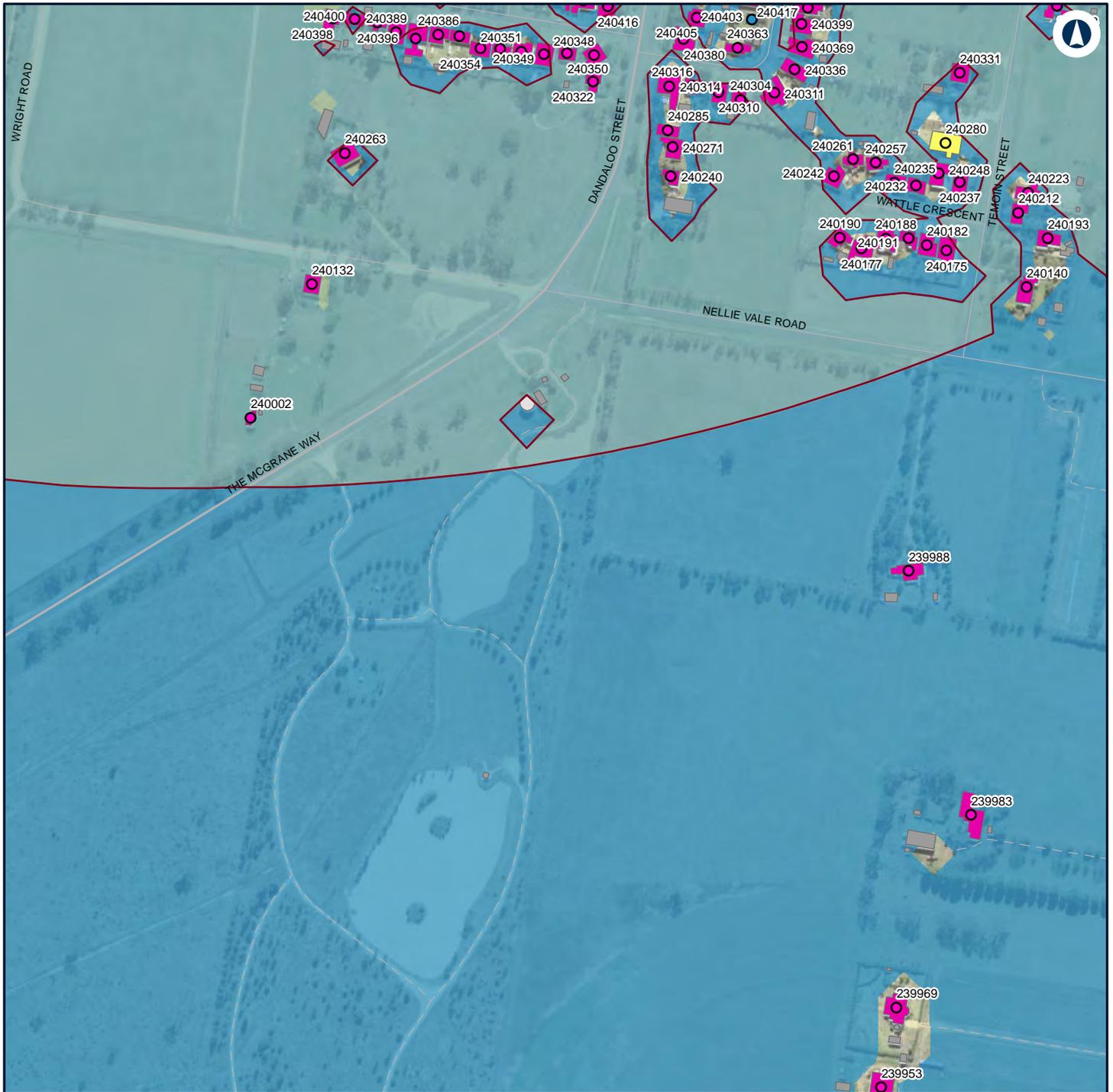
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LEGEND

Structure type	Community	40 - 45
Active recreation	Other	
Community	Residential	
Residential	Noise level (dBA L	
Active recreation	Aeq 15 minute)	
Commercial/Industrial	30 - 35	35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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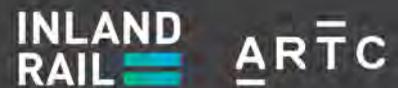
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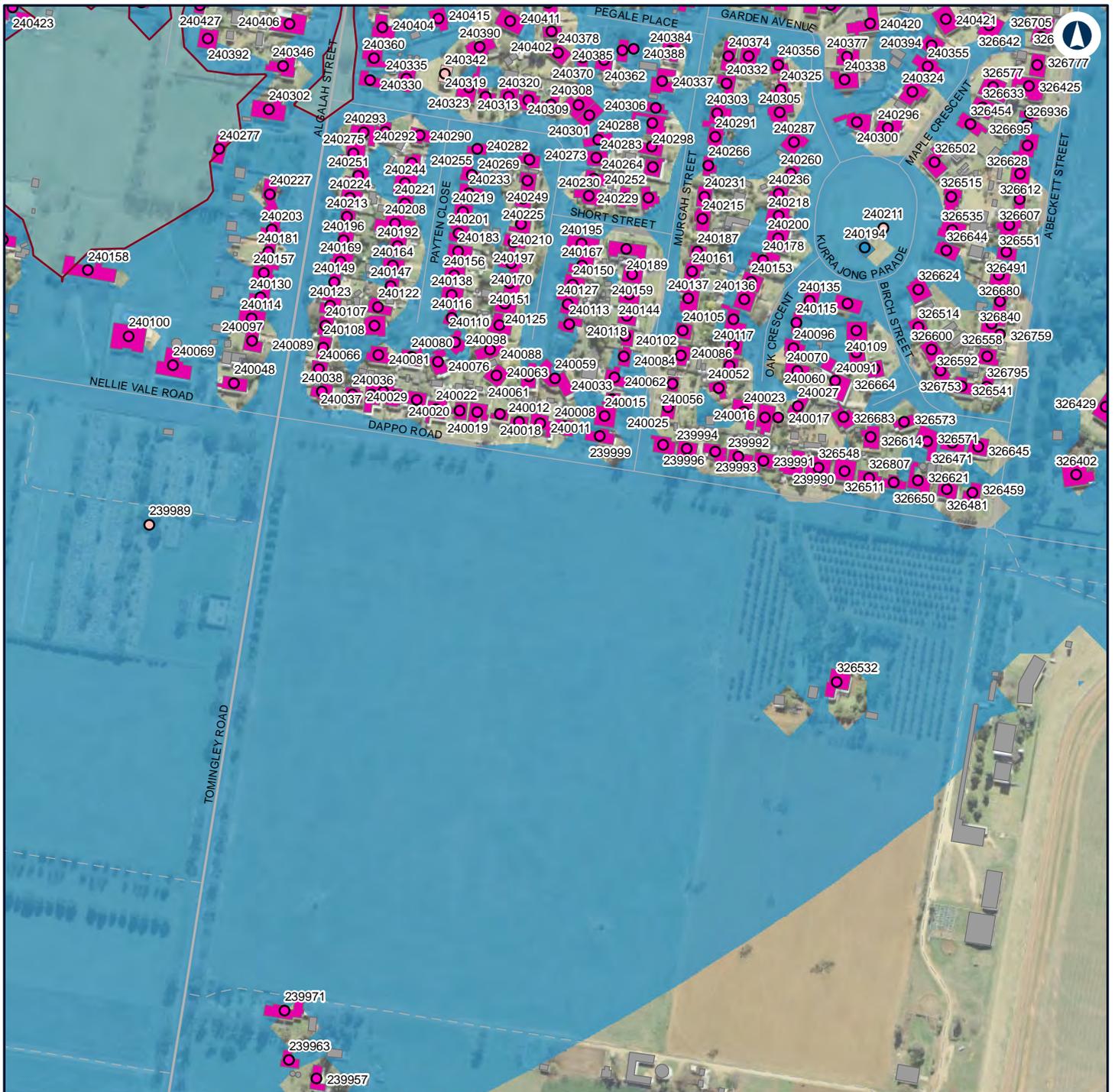
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LEGEND

- | | |
|-----------------------|---------------------------|
| Structure type | Residential |
| Active recreation | Noise level (dBA L |
| Passive recreation | Aeq 15 minute) |
| Residential | 30 - 35 |
| Active recreation | 35 - 40 |
| Other | |
| Passive recreation | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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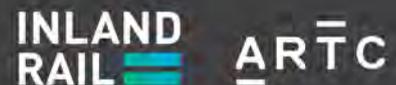
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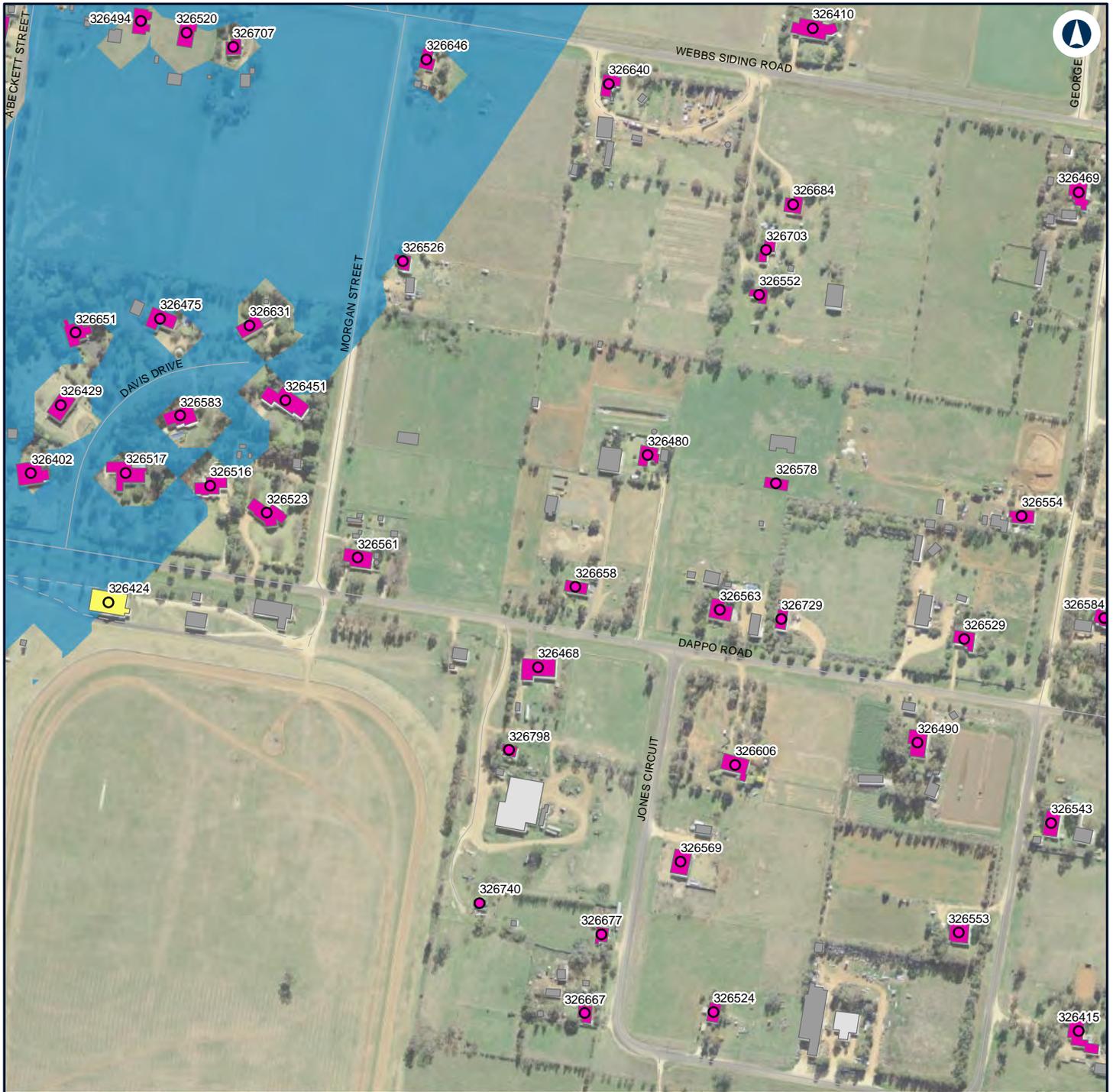
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

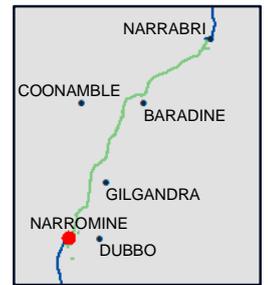


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LEGEND

- | | |
|-----------------------|---------------------------|
| Structure type | Residential |
| Community | Noise level (dBA L |
| Residential | Aeq 15 minute) |
| Commercial/Industrial | 30 - 35 |
| Community | |
| Other | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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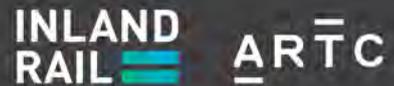
Date: 16/07/2020

Paper: A4

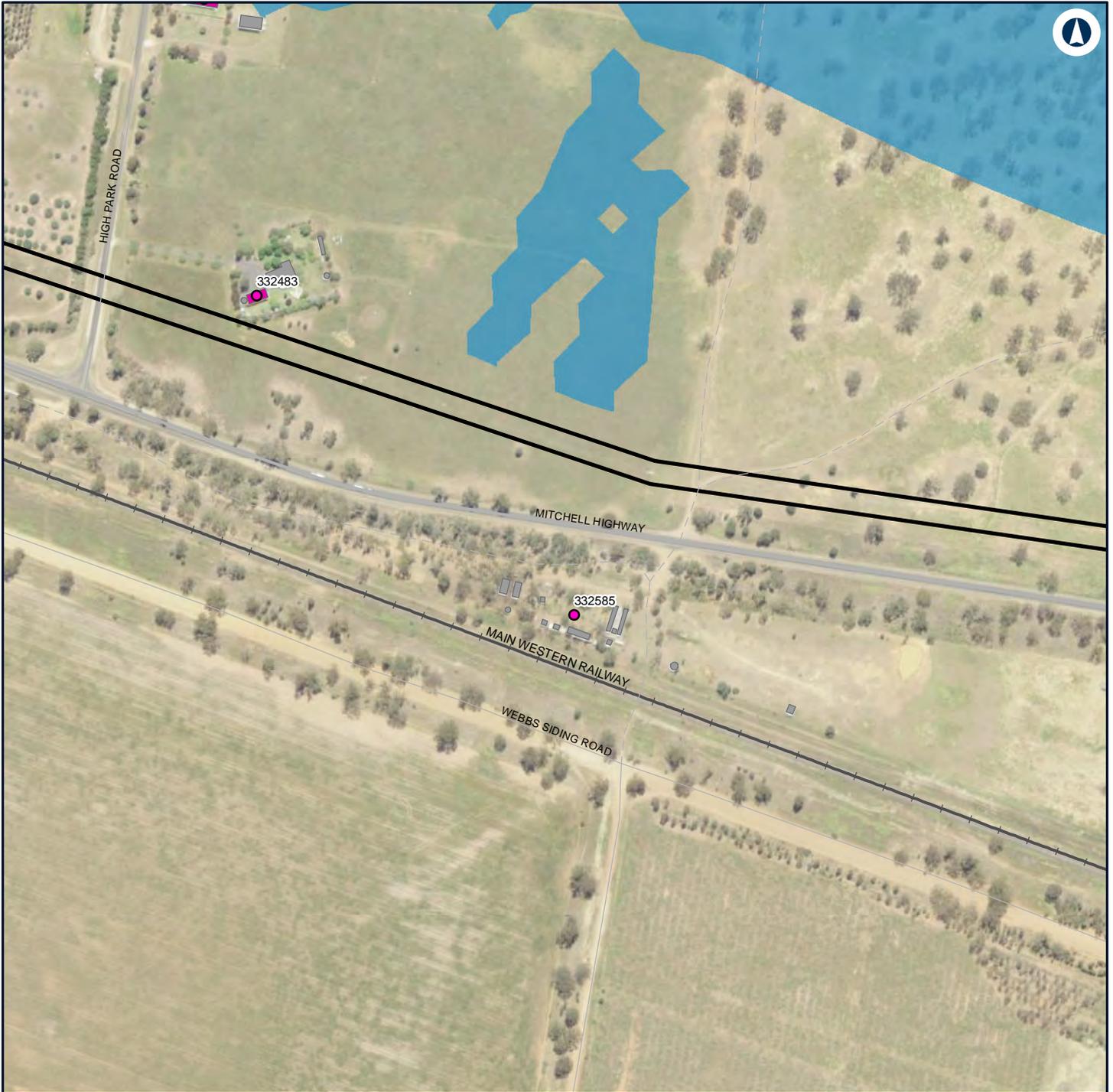
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Construction footprint

Structure type

- Residential
- Other
- Residential

Noise level (dBA L Aeq 15 minute)

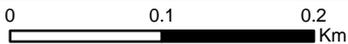
30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 27 of 304



Coordinate System: GDA 1994 MGA Zone 55

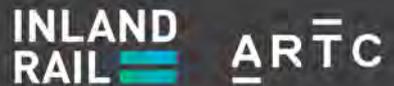
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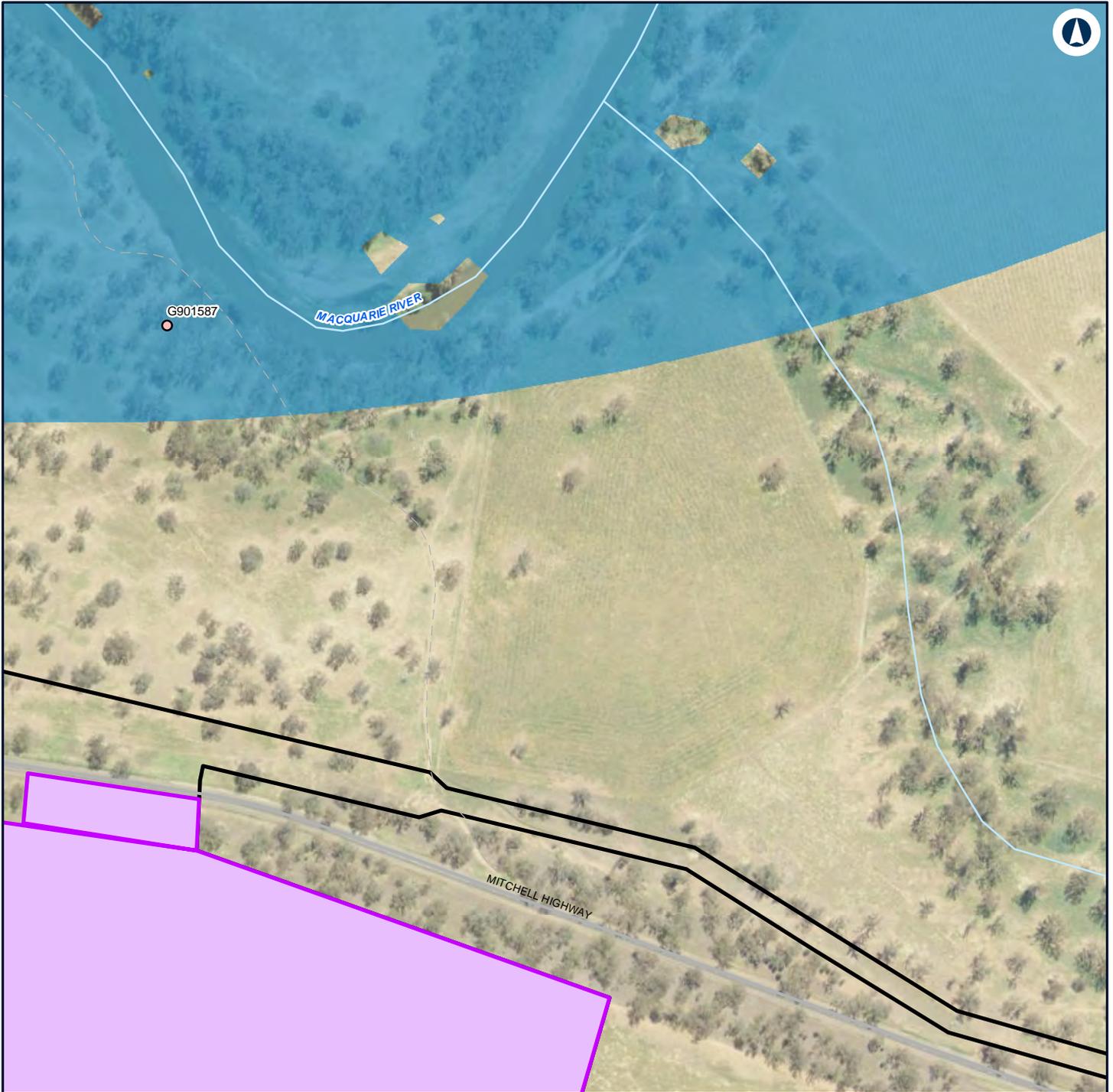
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Author: GHD

Paper: A4
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LEGEND

Construction footprint

Structure type

Passive recreation

Noise level (dBA L

Aeq 15 minute)

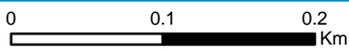
30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 28 of 304



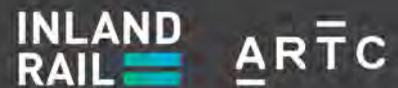
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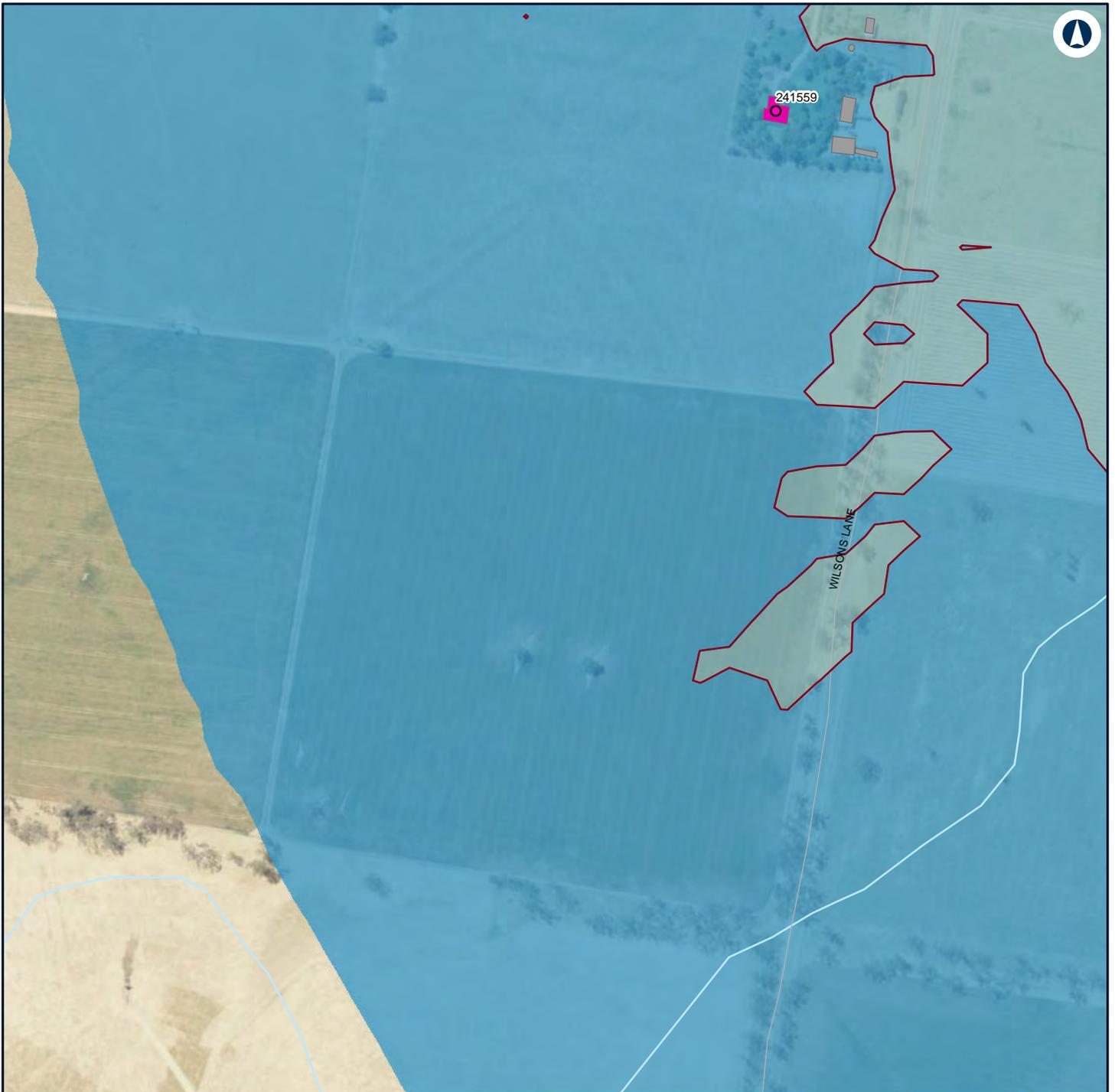
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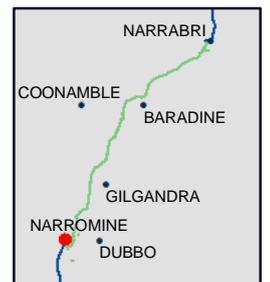


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



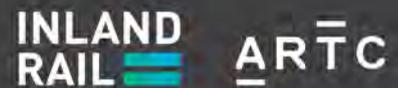
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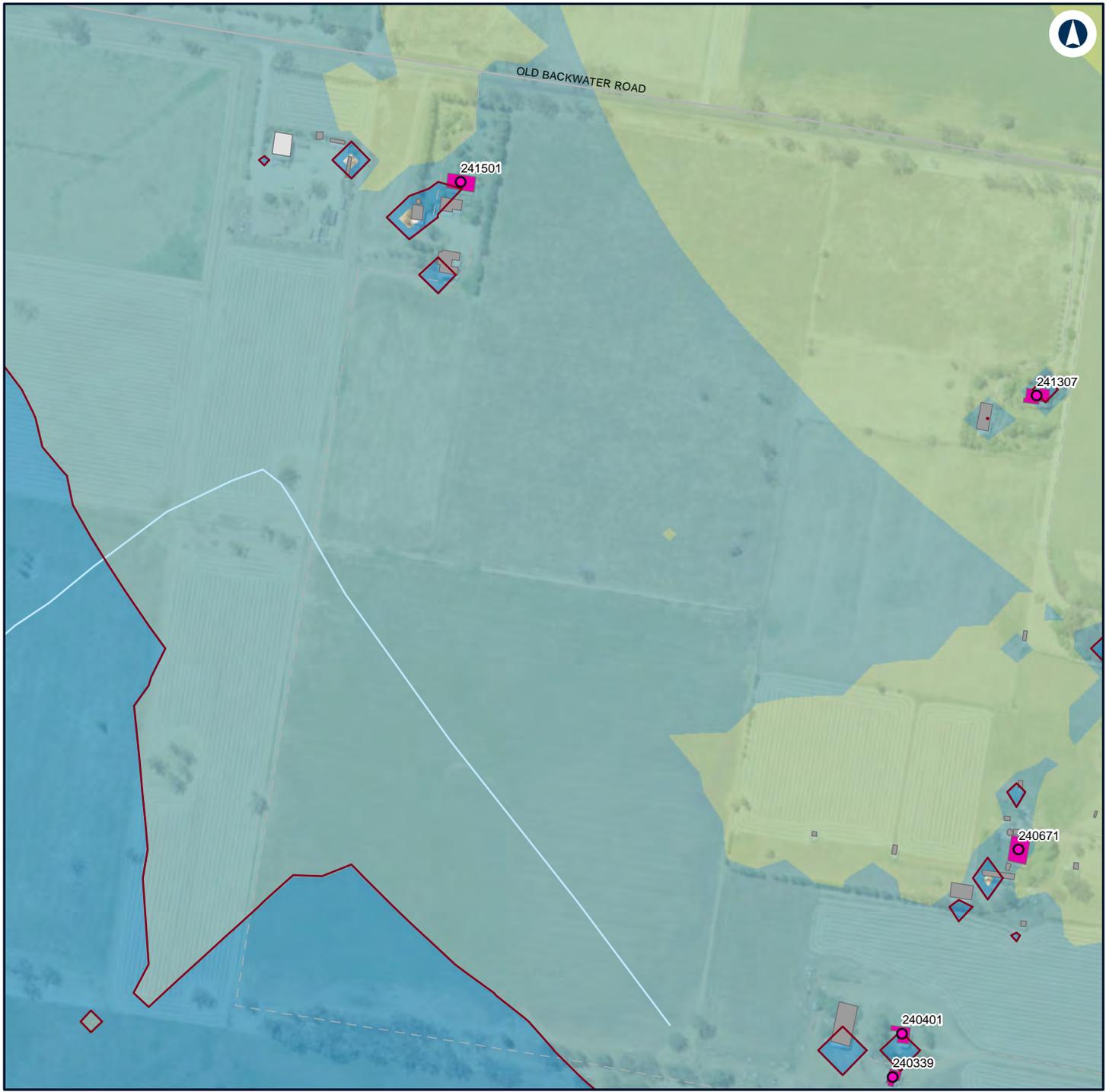
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	40 - 45
Residential	45 - 50



0 0.1 0.2 Km

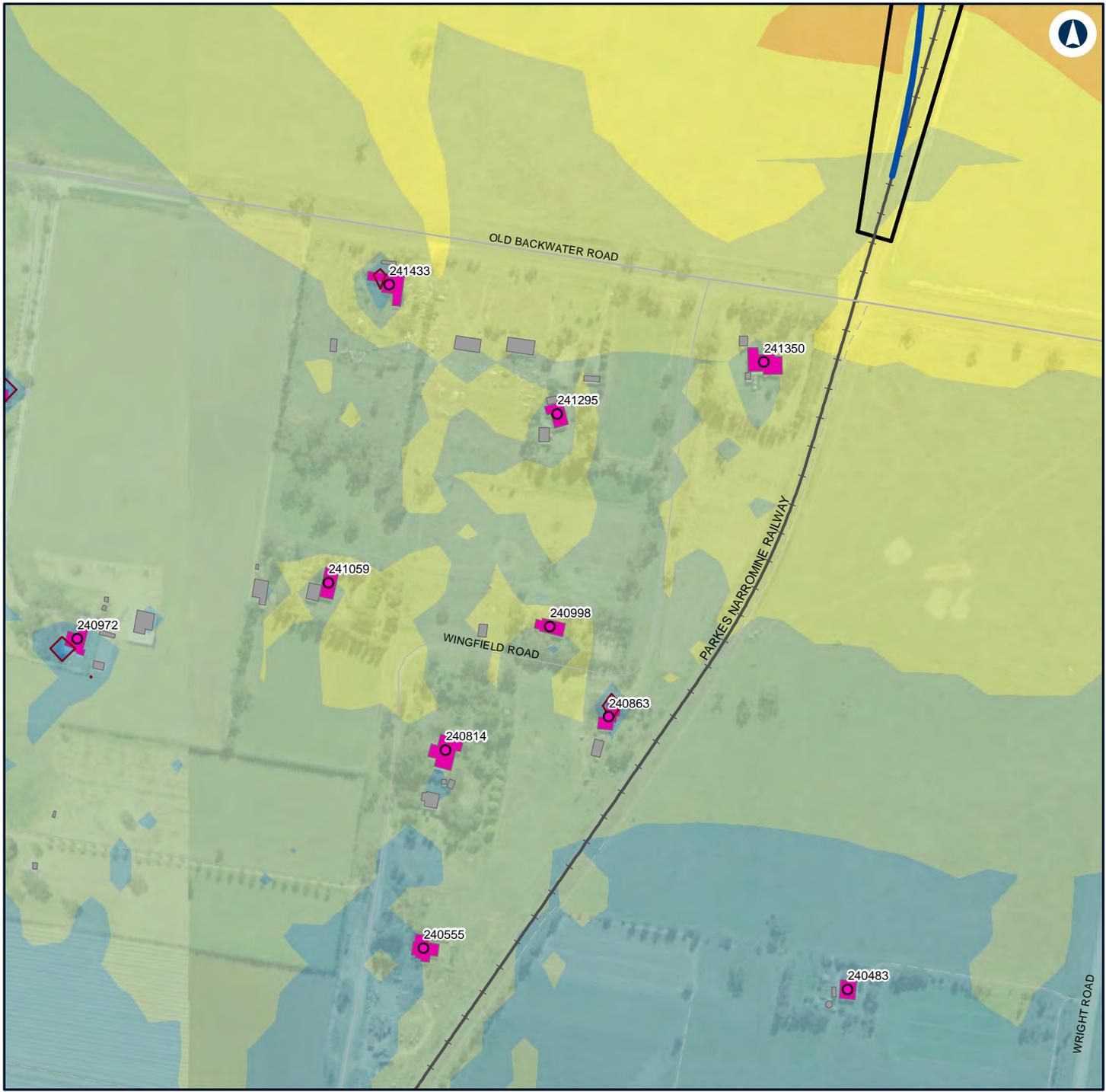
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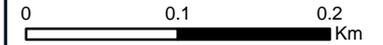
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 Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 30 - 35
 - 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55
 - 55 - 60



Coordinate System: GDA 1994 MGA Zone 55

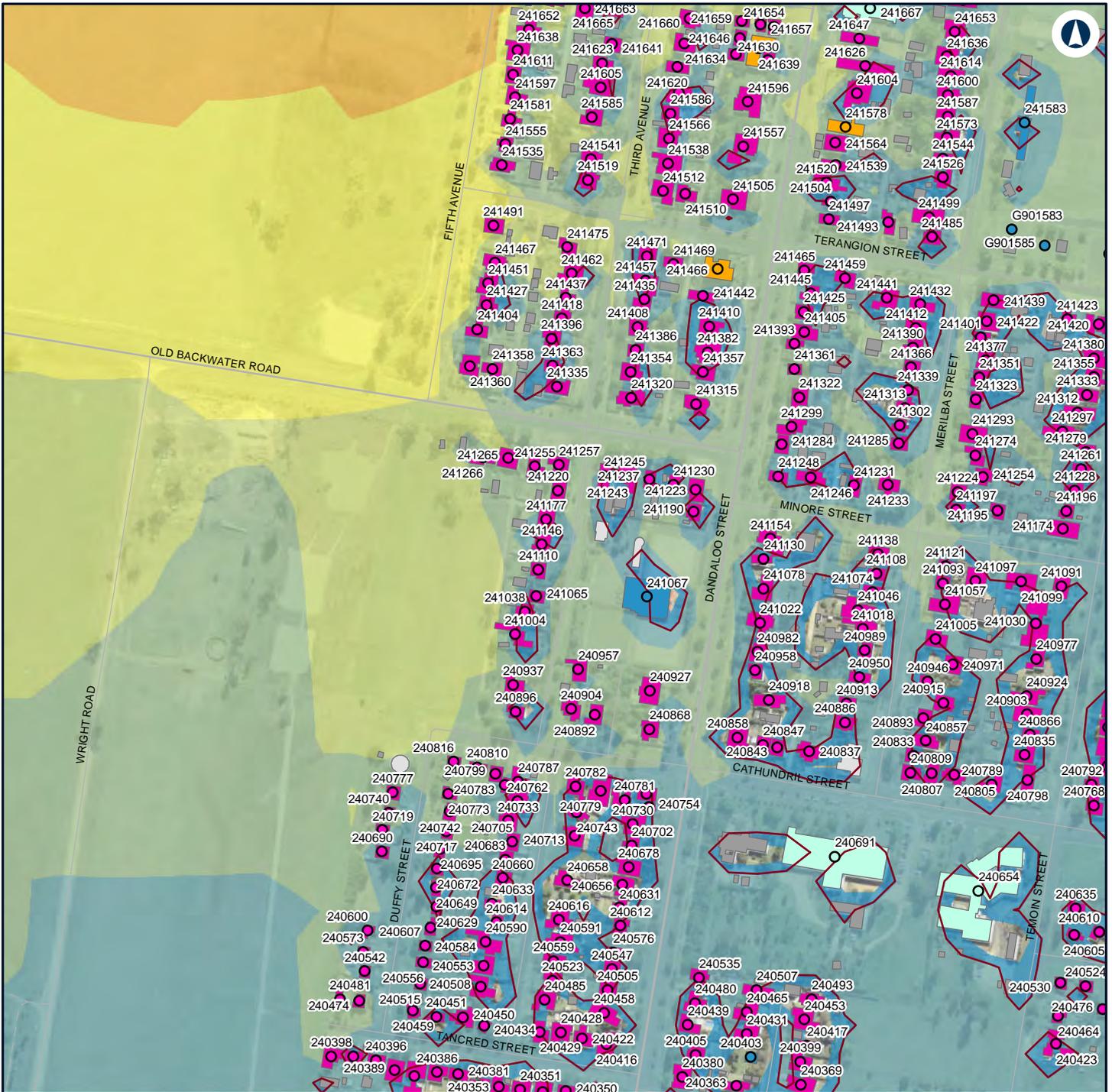
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LEGEND

Structure type	Residential	Commercial/Industrial
Active recreation	Health	Other
Health	Residential	Worship
Residential	Worship	
Worship		
Active recreation		

Noise level (dBA L Aeq 15 minute)	55 - 60
30 - 35	
35 - 40	
40 - 45	
45 - 50	
50 - 55	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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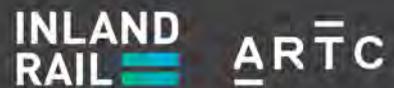
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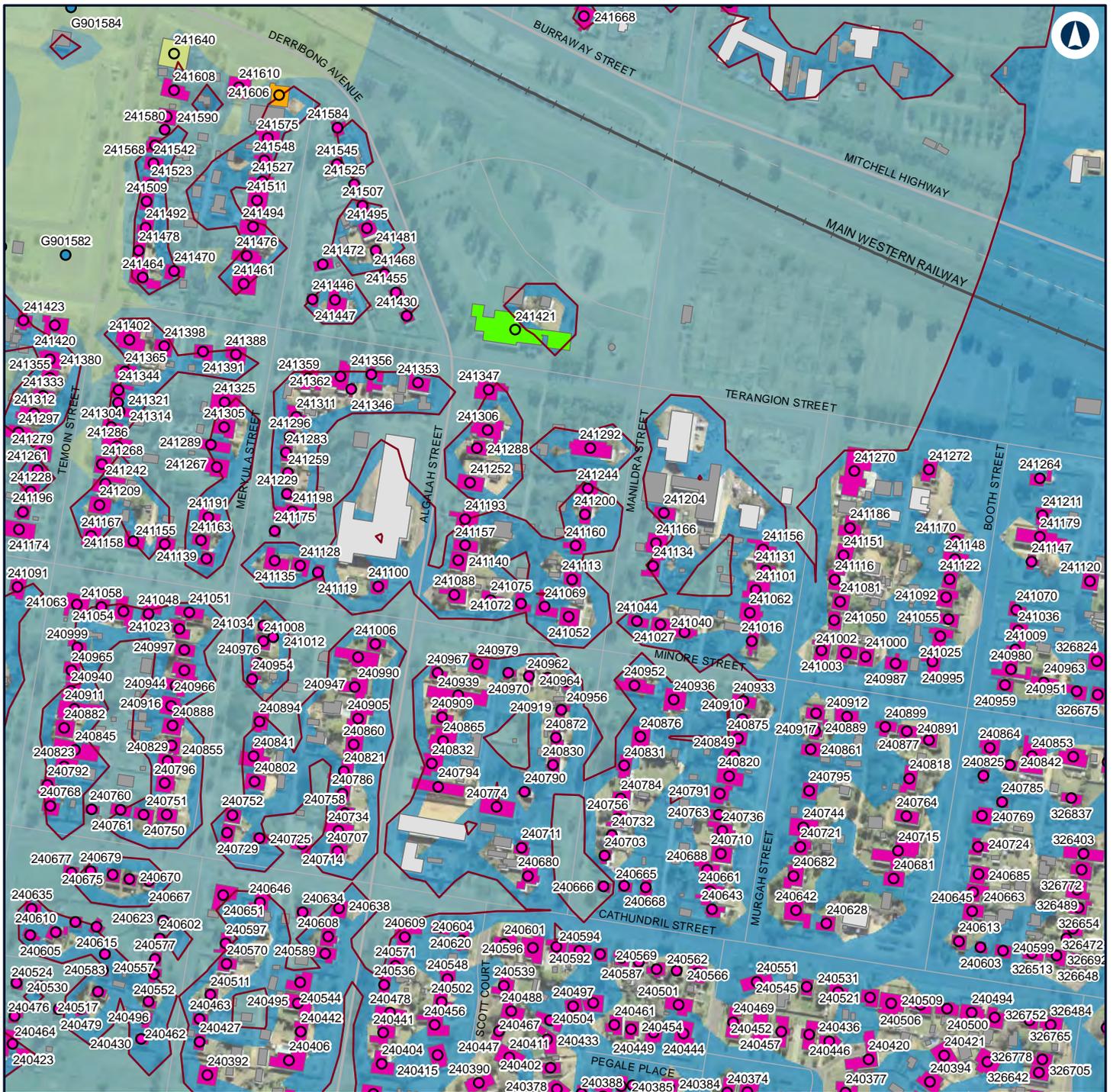
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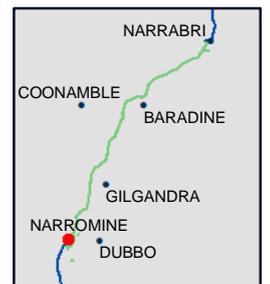
LEGEND

Structure type

- Active recreation
- Child care facility
- Educational
- Residential
- Worship
- Child care facility
- Commercial/Industrial
- Educational
- Other
- Residential
- Worship

Noise level (dB A L)

- Aeq 15 minute)
- 30 - 35
 - 35 - 40
 - 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 33 of 304



Coordinate System: GDA 1994 MGA Zone 55

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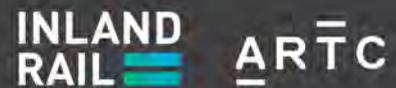
Date: 16/07/2020

Paper: A4

Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

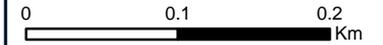


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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	

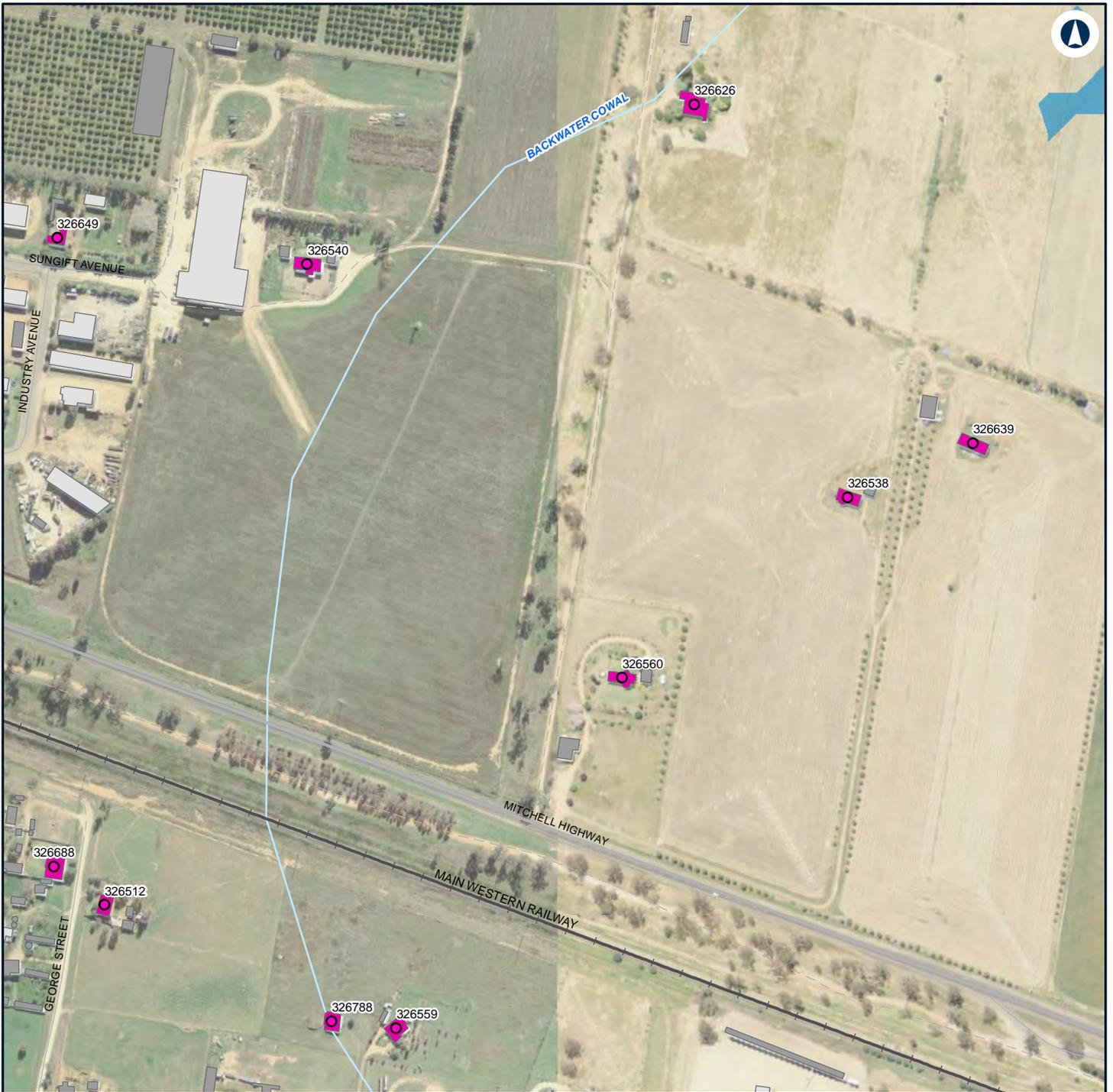


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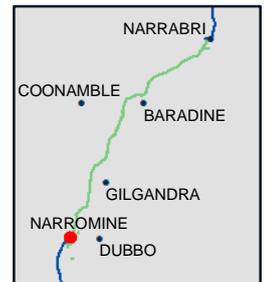
LEGEND

Structure type

-  Residential
-  Commercial/Industrial
-  Other
-  Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

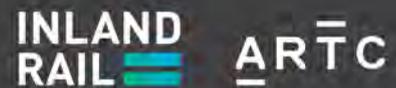
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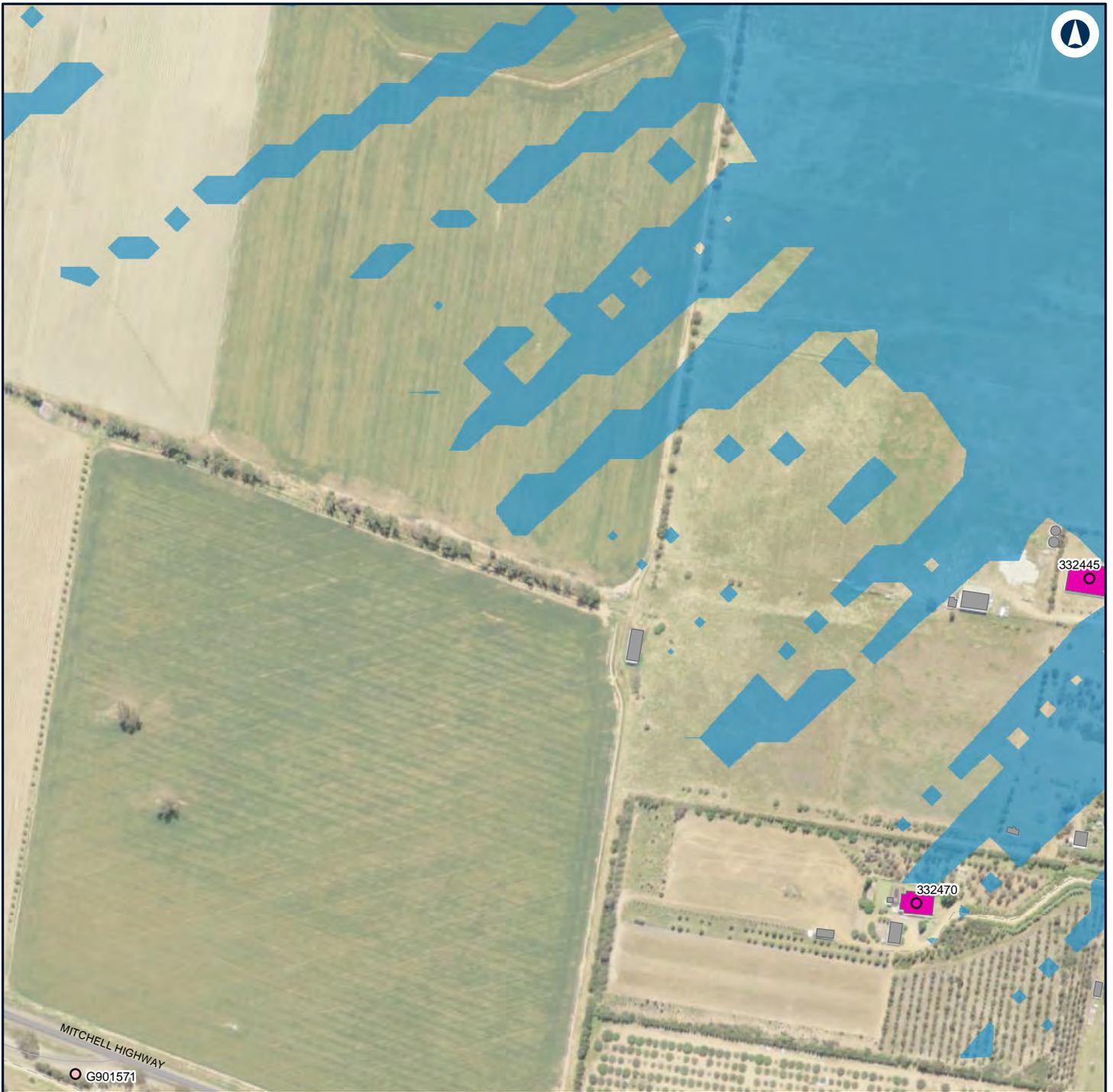
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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
○ Passive recreation	30 - 35
● Residential	
■ Other	
■ Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

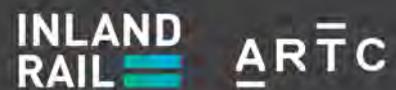
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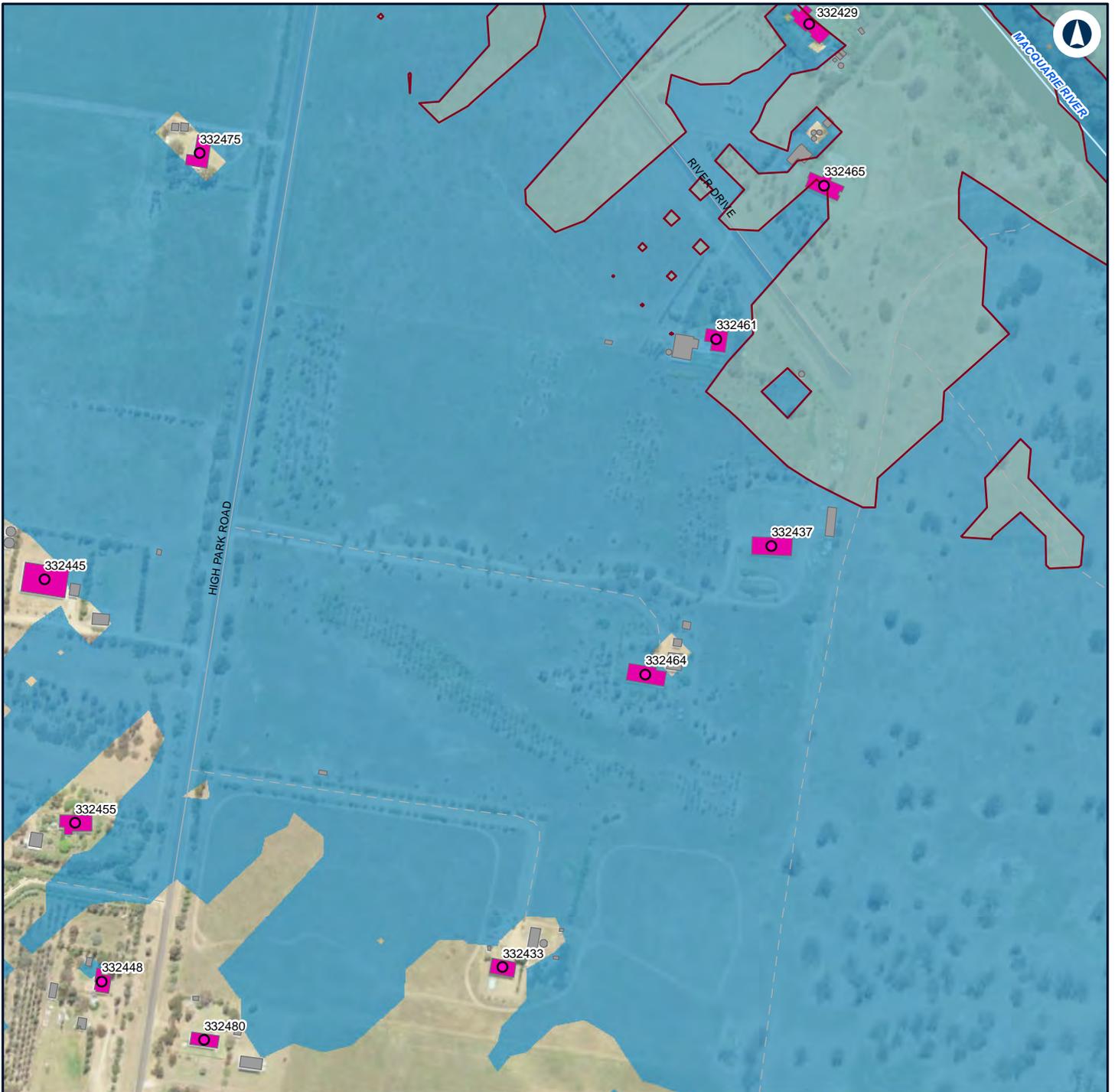
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 37 of 304



Coordinate System: GDA 1994 MGA Zone 55

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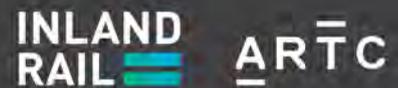
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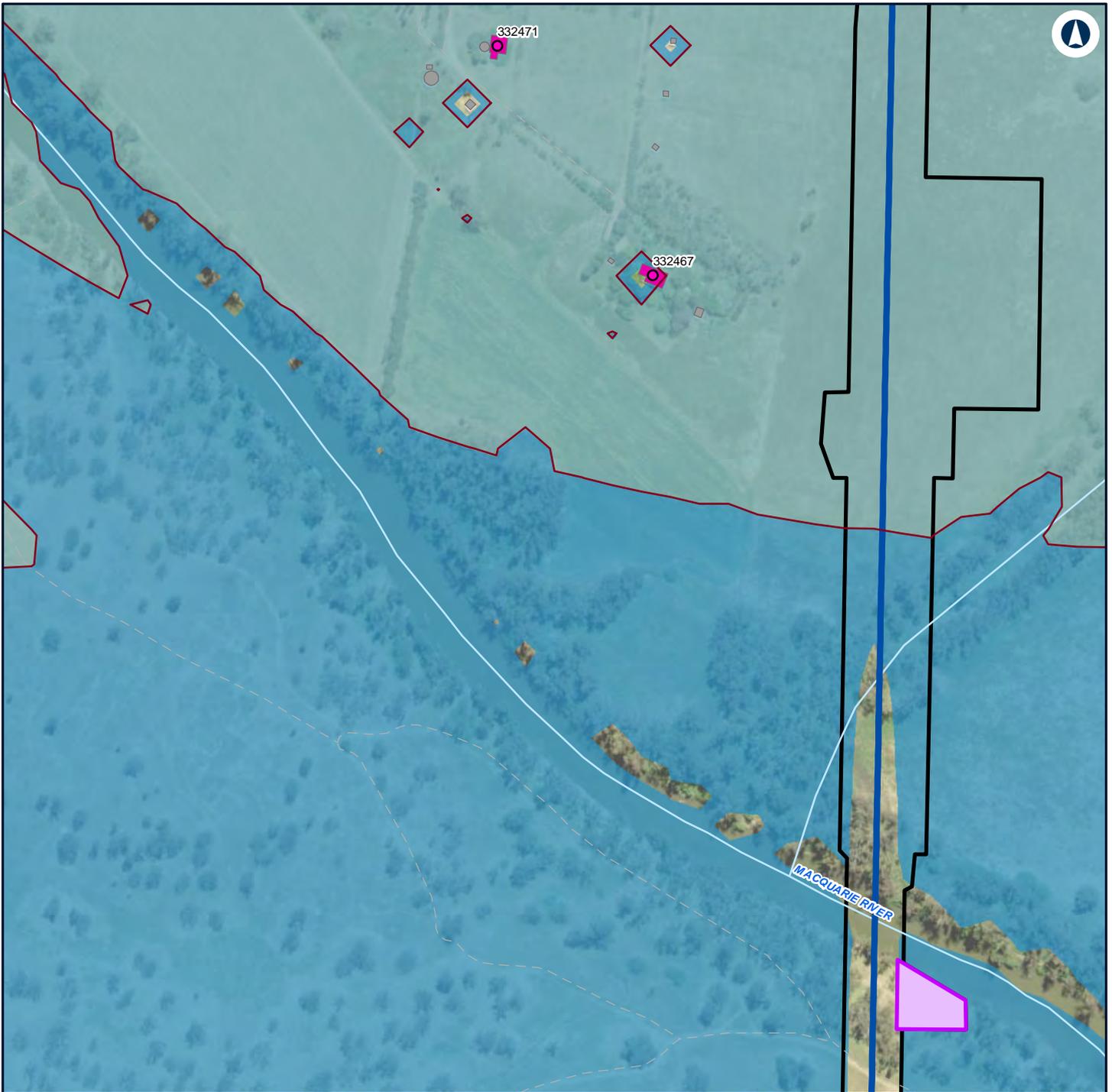
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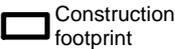
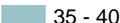
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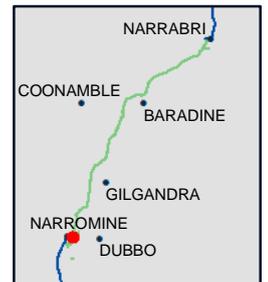


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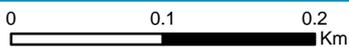
LEGEND

-  Alignment
-  Construction footprint
- Structure type**
 -  Residential
 -  Other
 -  Residential
- Noise level (dBA L Aeq 15 minute)**
 -  30 - 35
 -  35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

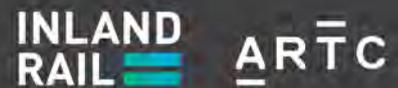


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LEGEND

- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

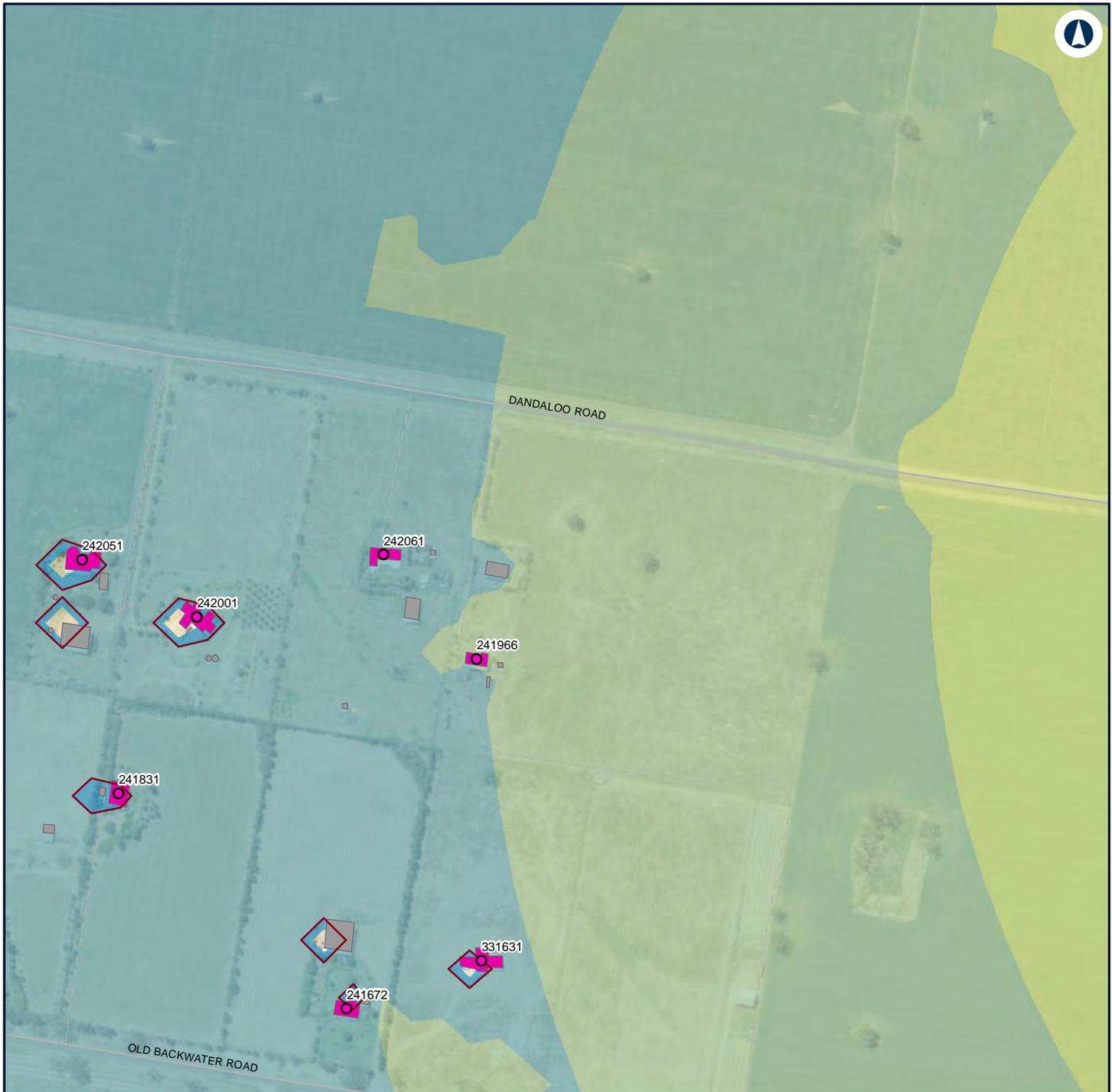
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LEGEND

Structure type	35 - 40
Residential	40 - 45
Other	45 - 50
Residential	
Noise level (dBA L	
Aeq 15 minute)	
30 - 35	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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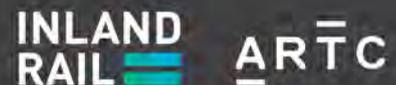
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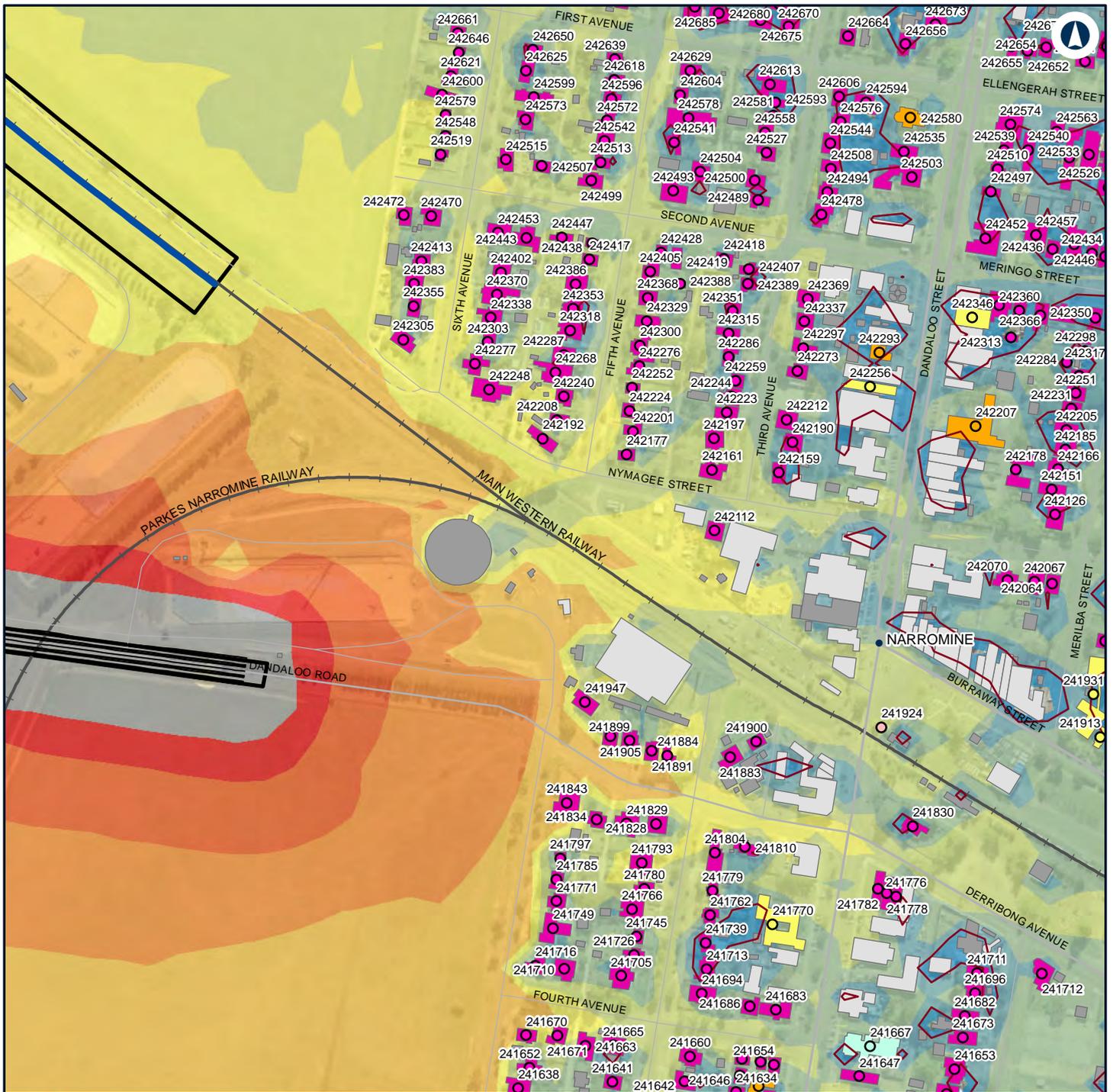
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- | | | | | |
|------------------------|-----------------------|--------------------|---------------------------|---------|
| Alignment | Residential | Health | Noise level (dBA L | 55 - 60 |
| Road design string | Worship | Other | Aeq 15 minute) | 60 - 65 |
| Construction footprint | Commercial/Industrial | Passive recreation | 30 - 35 | 65 - 70 |
| Structure type | Community | Residential | 35 - 40 | 70 - 75 |
| Community | Educational | Worship | 40 - 45 | > 75 |
| Health | | | 45 - 50 | |
| | | | 50 - 55 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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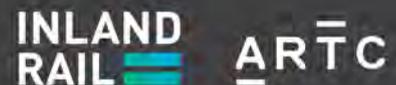
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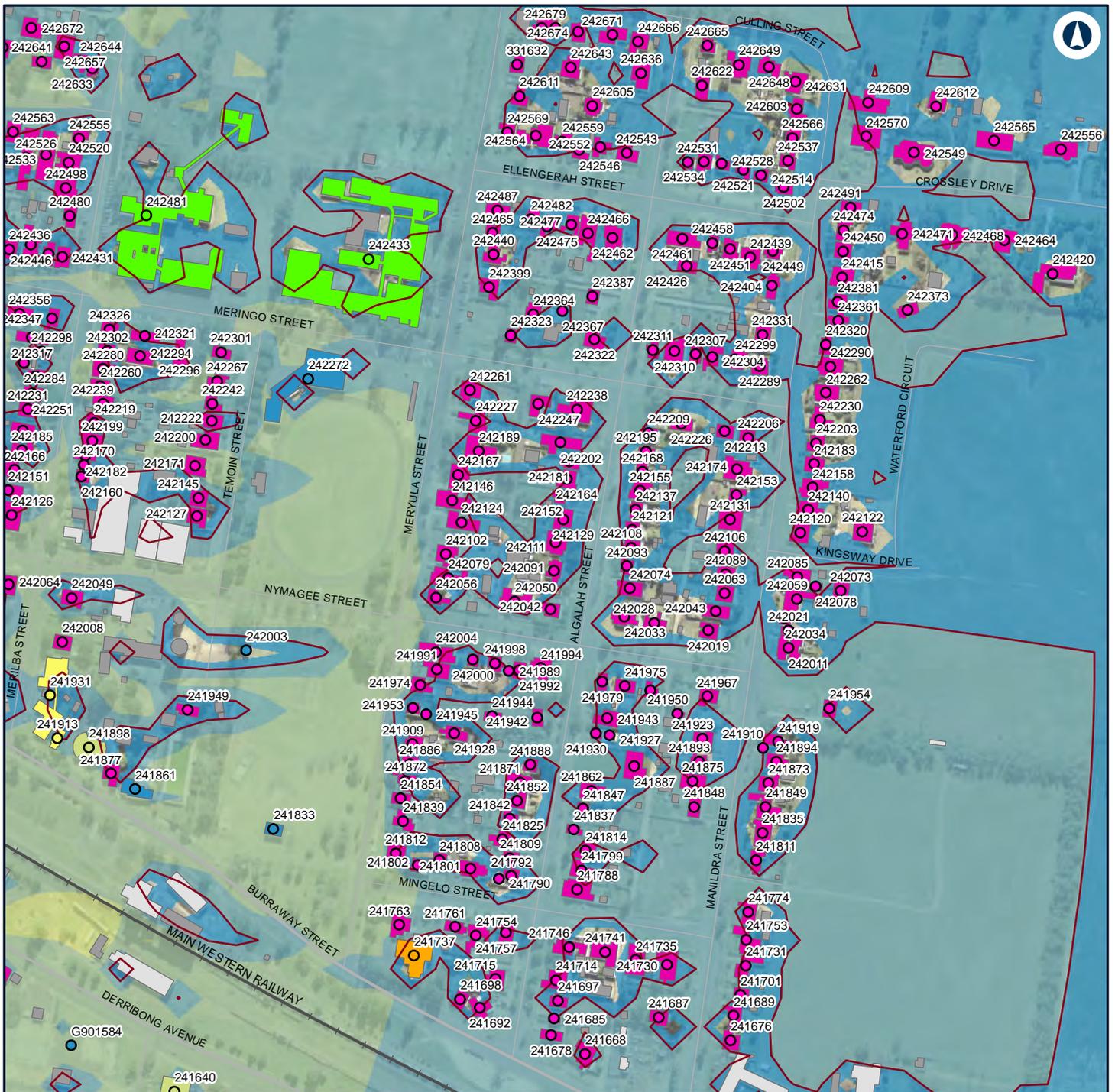
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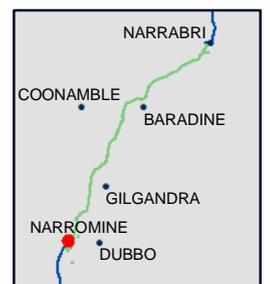


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LEGEND

Structure type	Active recreation	Residential	45 - 50
Active recreation	Child care facility	Worship	
Child care facility	Commercial/Industrial	Noise level (dBA L	
Community	Community	Aeq 15 minute)	
Educational	Educational	30 - 35	
Residential	Other	35 - 40	
Worship		40 - 45	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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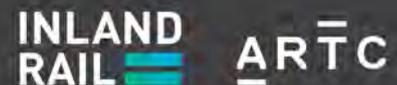
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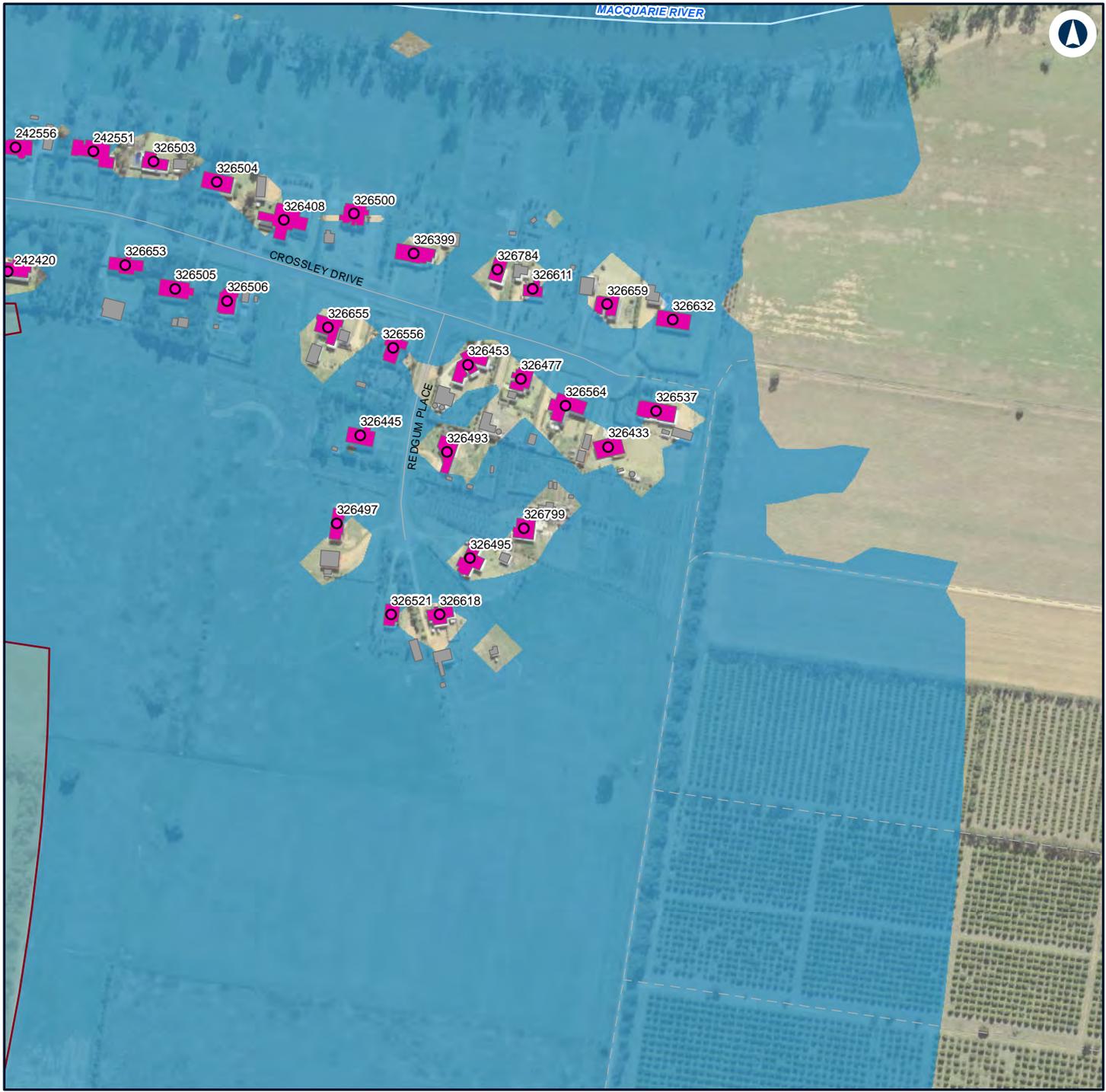
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

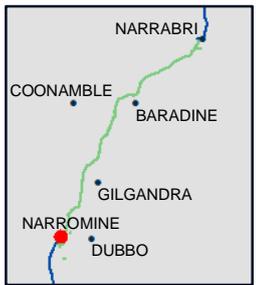


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

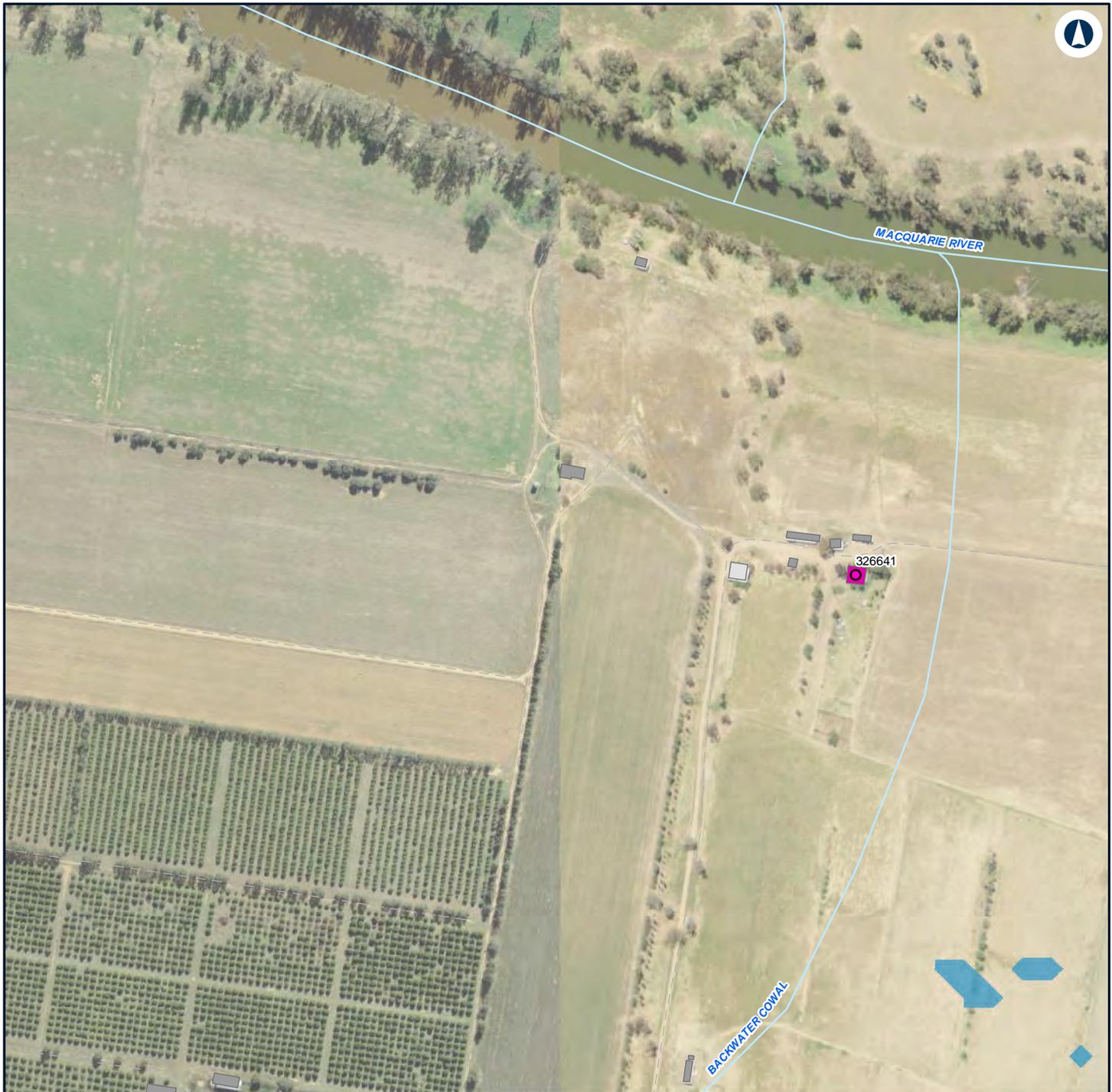
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

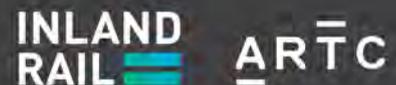
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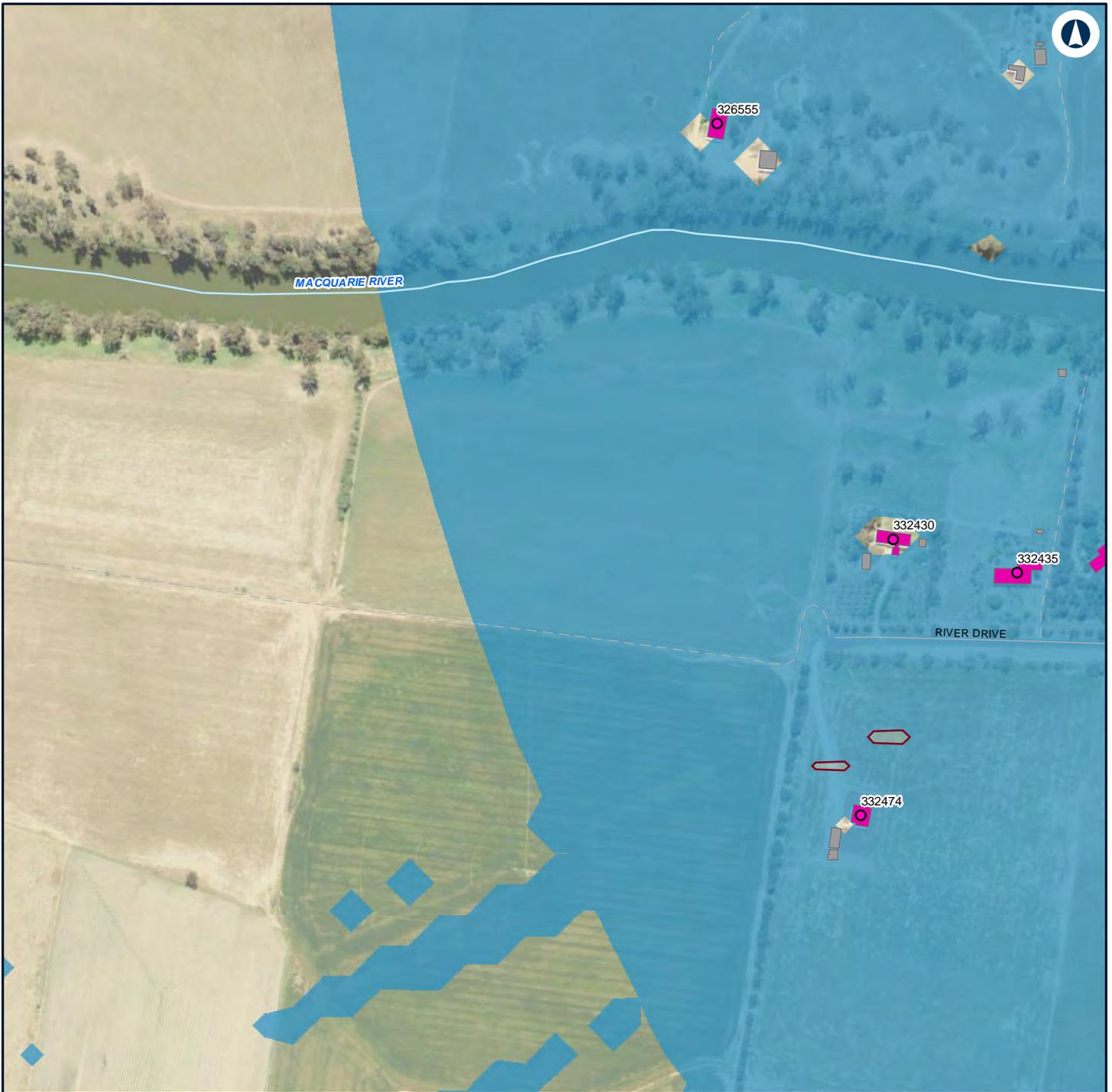
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 Author: GHD

Paper: A4
 Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

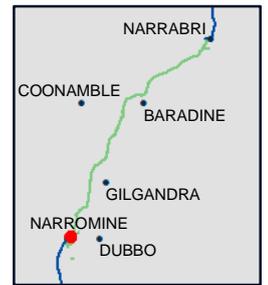


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

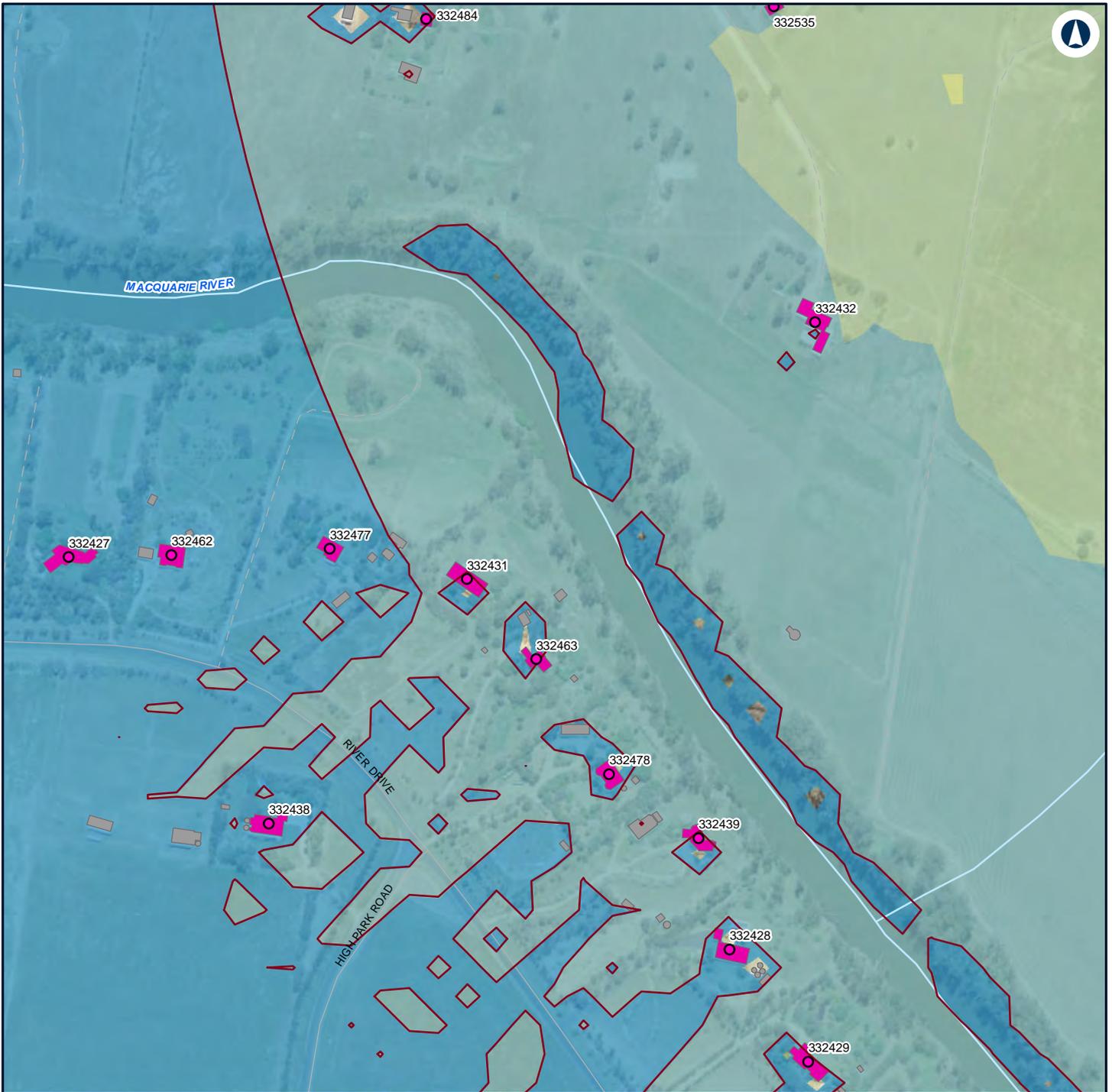
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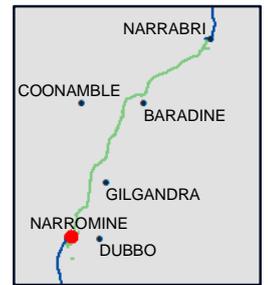
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Residential
 - Other
 - 45 - 50
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

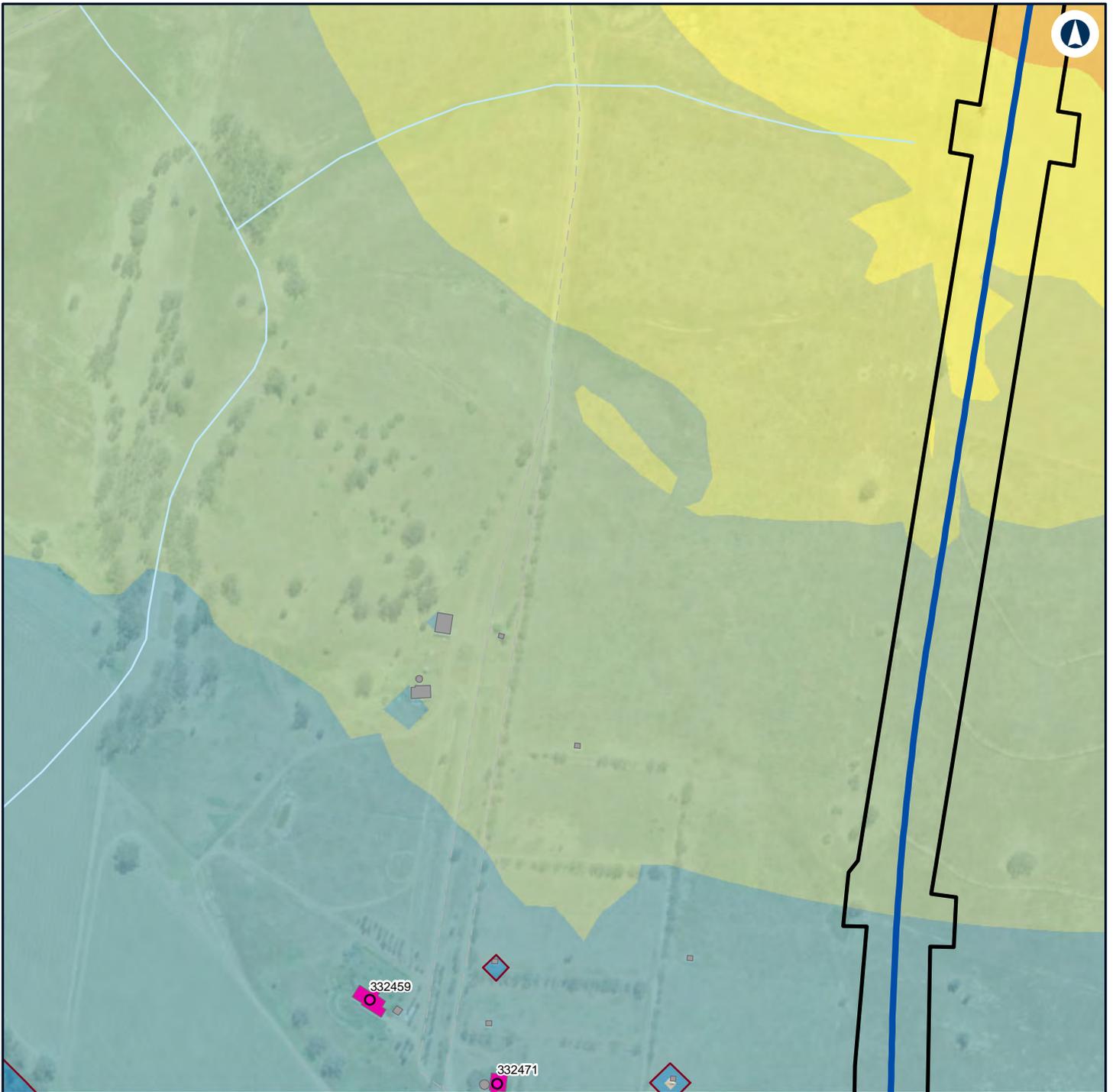
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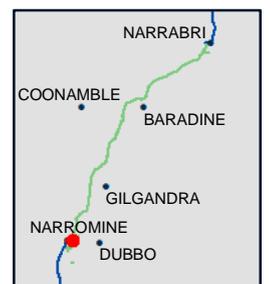
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | Noise level (dBA L
Aeq 15 minute) | Color |
|--------------------------------------|--|
| 30 - 35 | |
| 35 - 40 | |
| 40 - 45 | |
| 45 - 50 | |
| 50 - 55 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

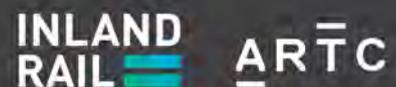
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



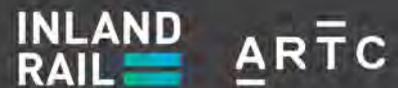
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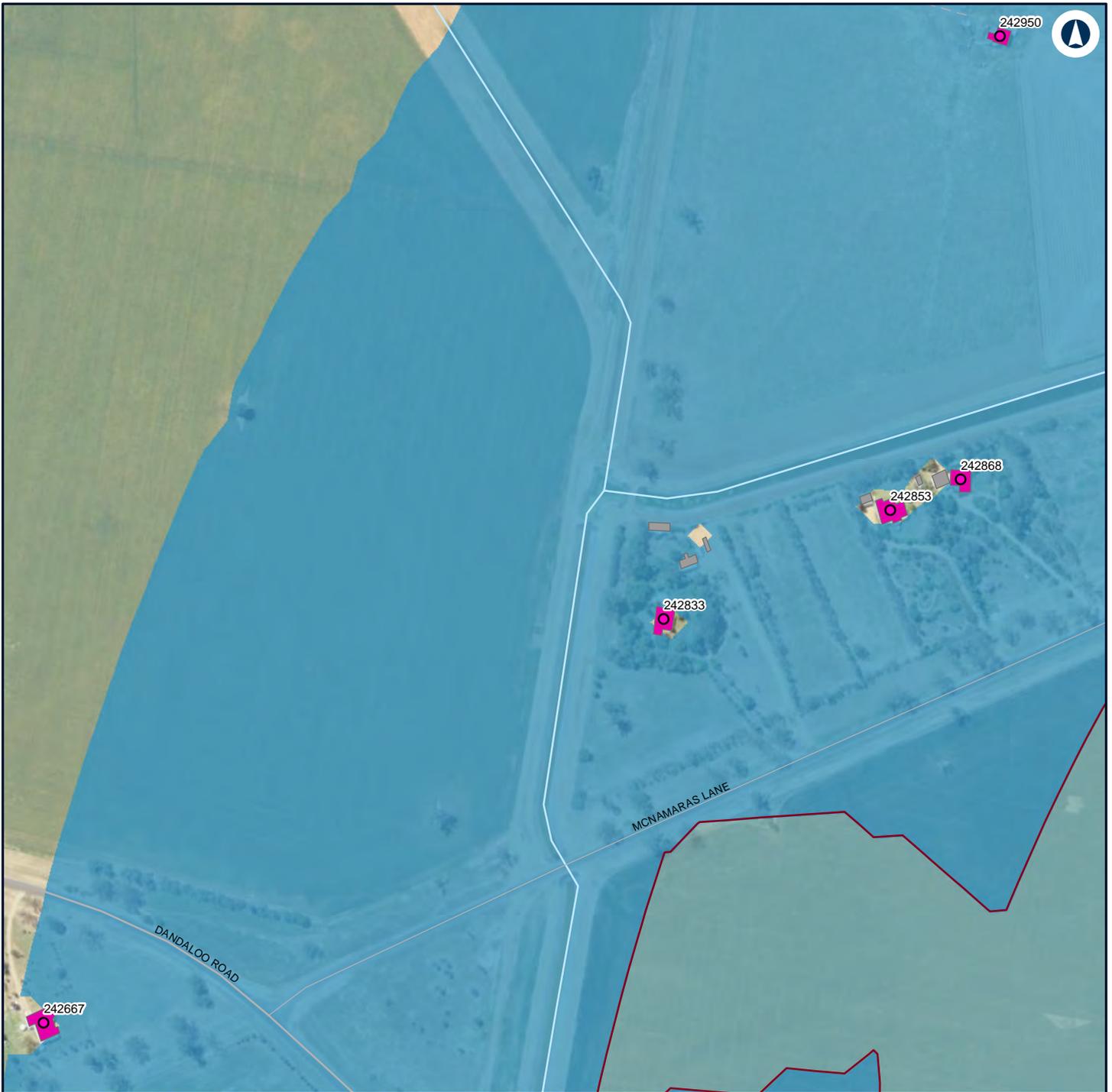
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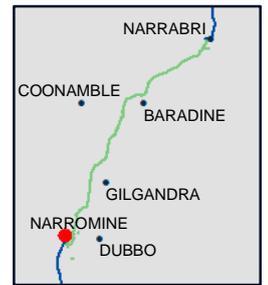


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

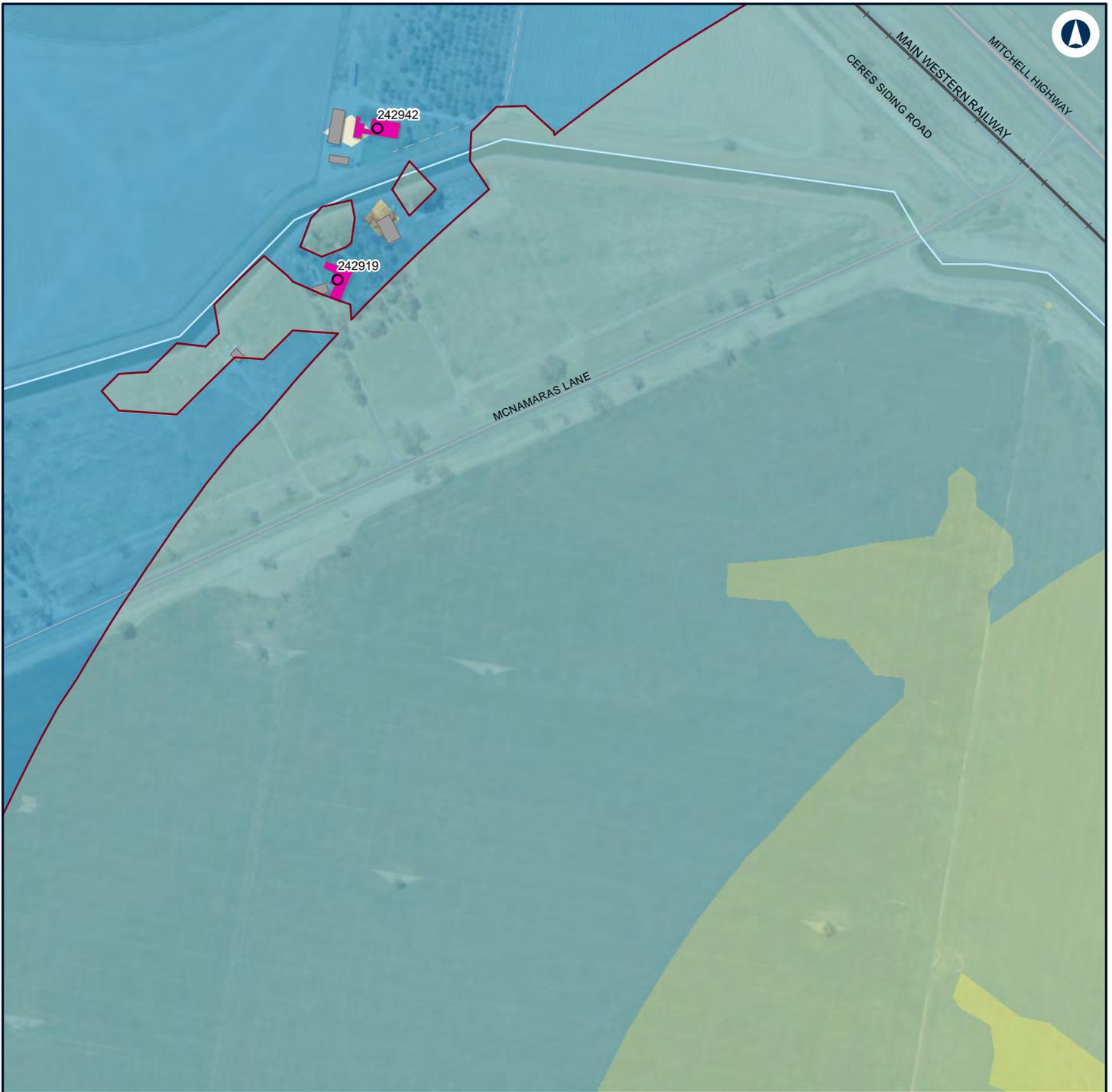
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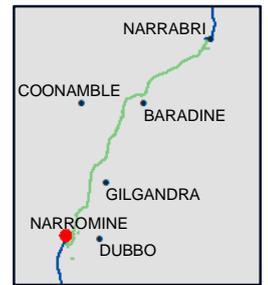
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LEGEND

- Structure type**
- Other
 - Residential
 - 35 - 40
 - 40 - 45
 - 45 - 50
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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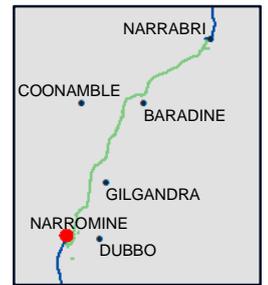
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LEGEND

- Alignment
- Construction footprint
- Structure type**
- Residential
- Commercial/Industrial
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

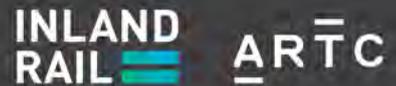
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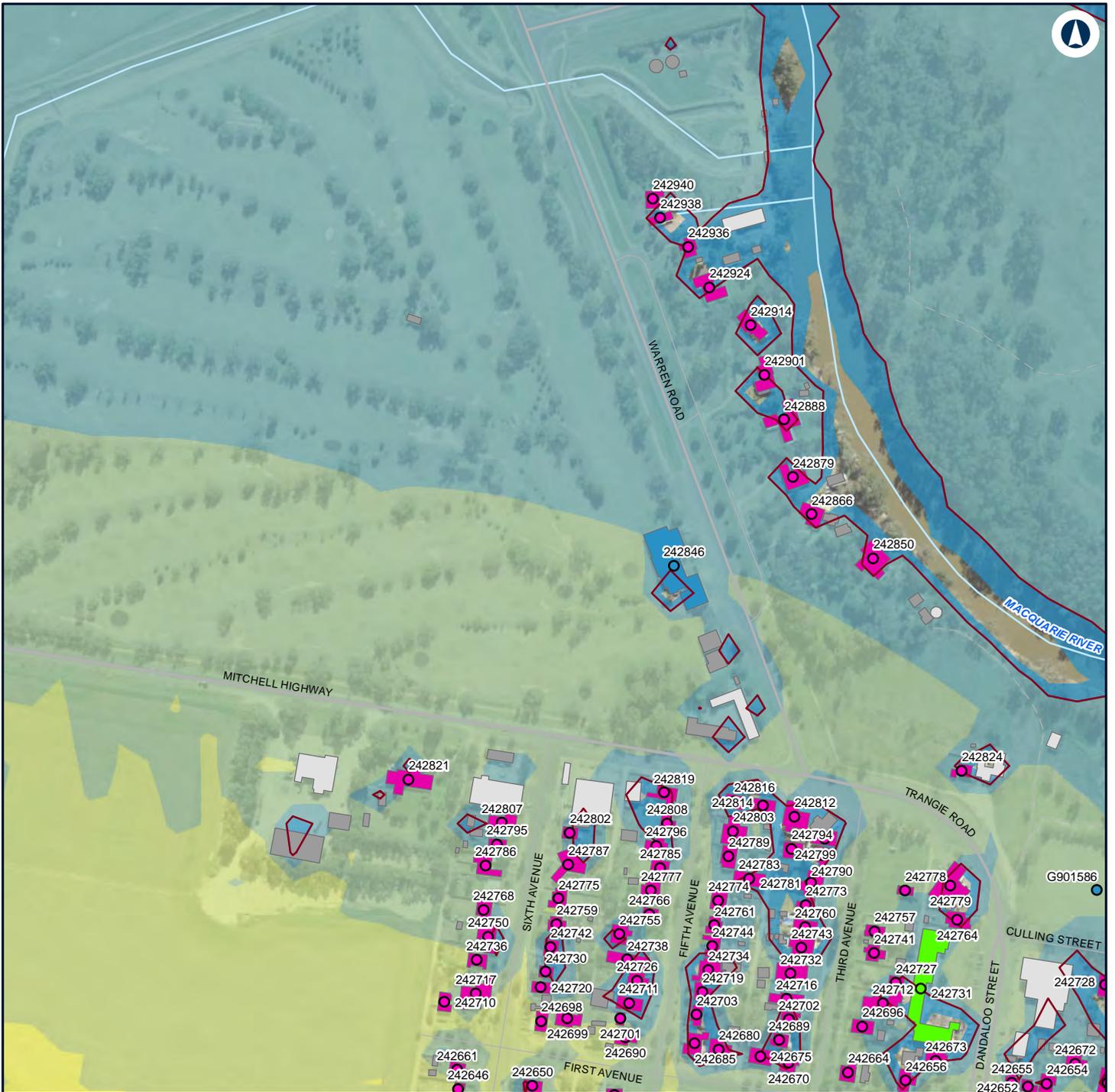
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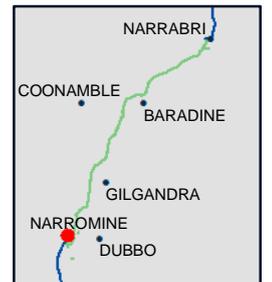


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LEGEND

Structure type	Educational	40 - 45
Active recreation	Other	45 - 50
Educational	Residential	50 - 55
Residential	Noise level (dBA L	
Active recreation	Aeq 15 minute)	
Commercial/ Industrial	30 - 35	
	35 - 40	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 52 of 304



Coordinate System: GDA 1994 MGA Zone 55

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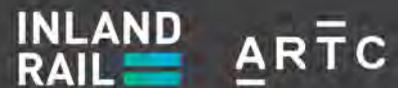
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Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

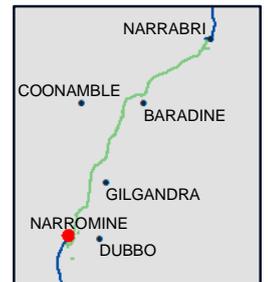


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LEGEND

Structure type	Passive recreation
Active recreation	Residential
Passive recreation	Noise level (dBA L
Residential	Aeq 15 minute)
Commercial/Industrial	30 - 35
Other	35 - 40
	40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenarion ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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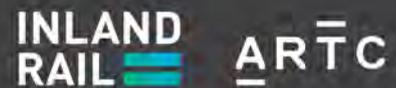
Date: 16/07/2020

Paper: A4

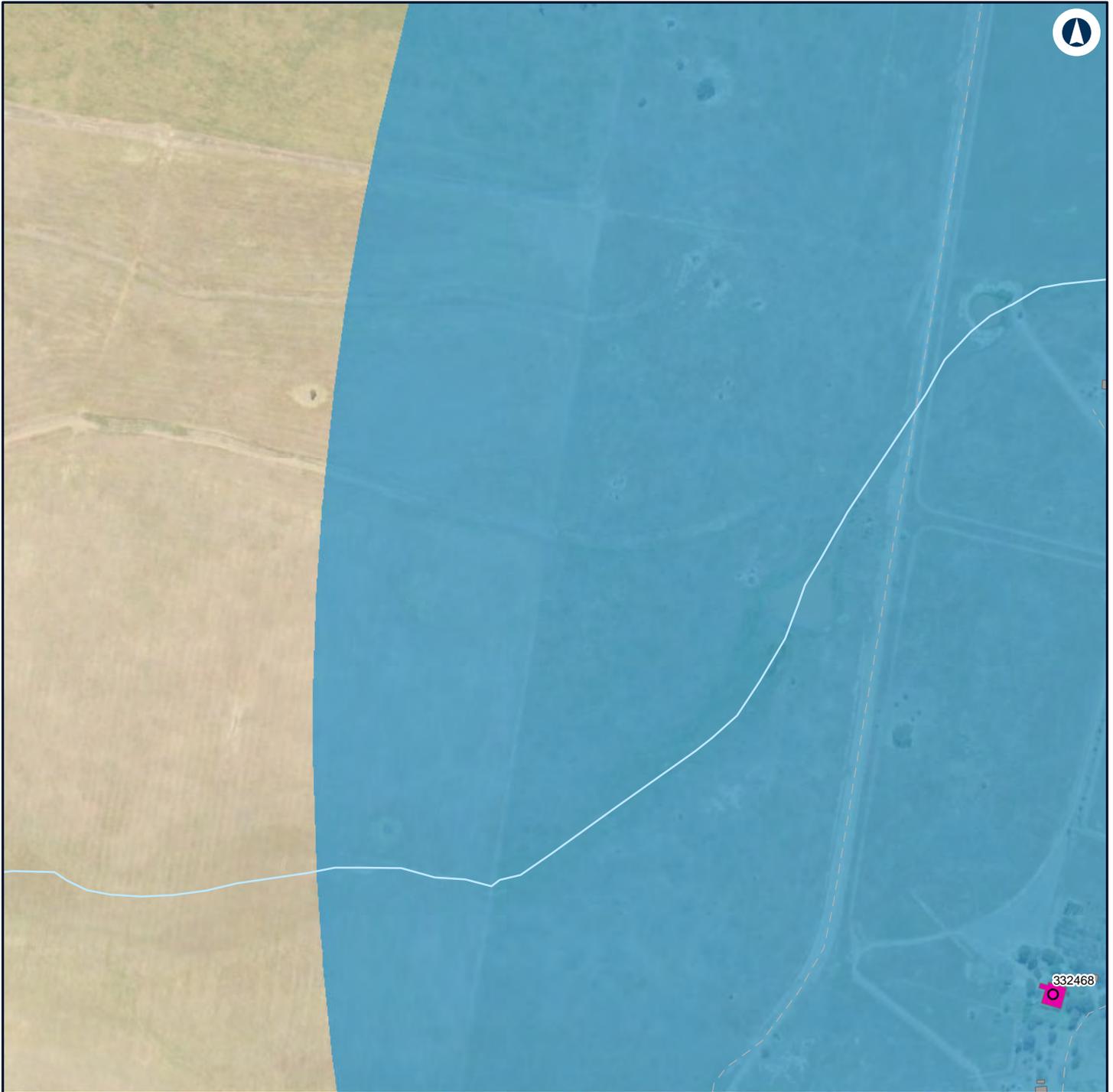
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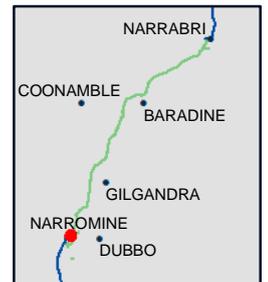
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 54 of 304



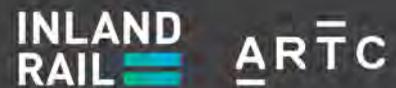
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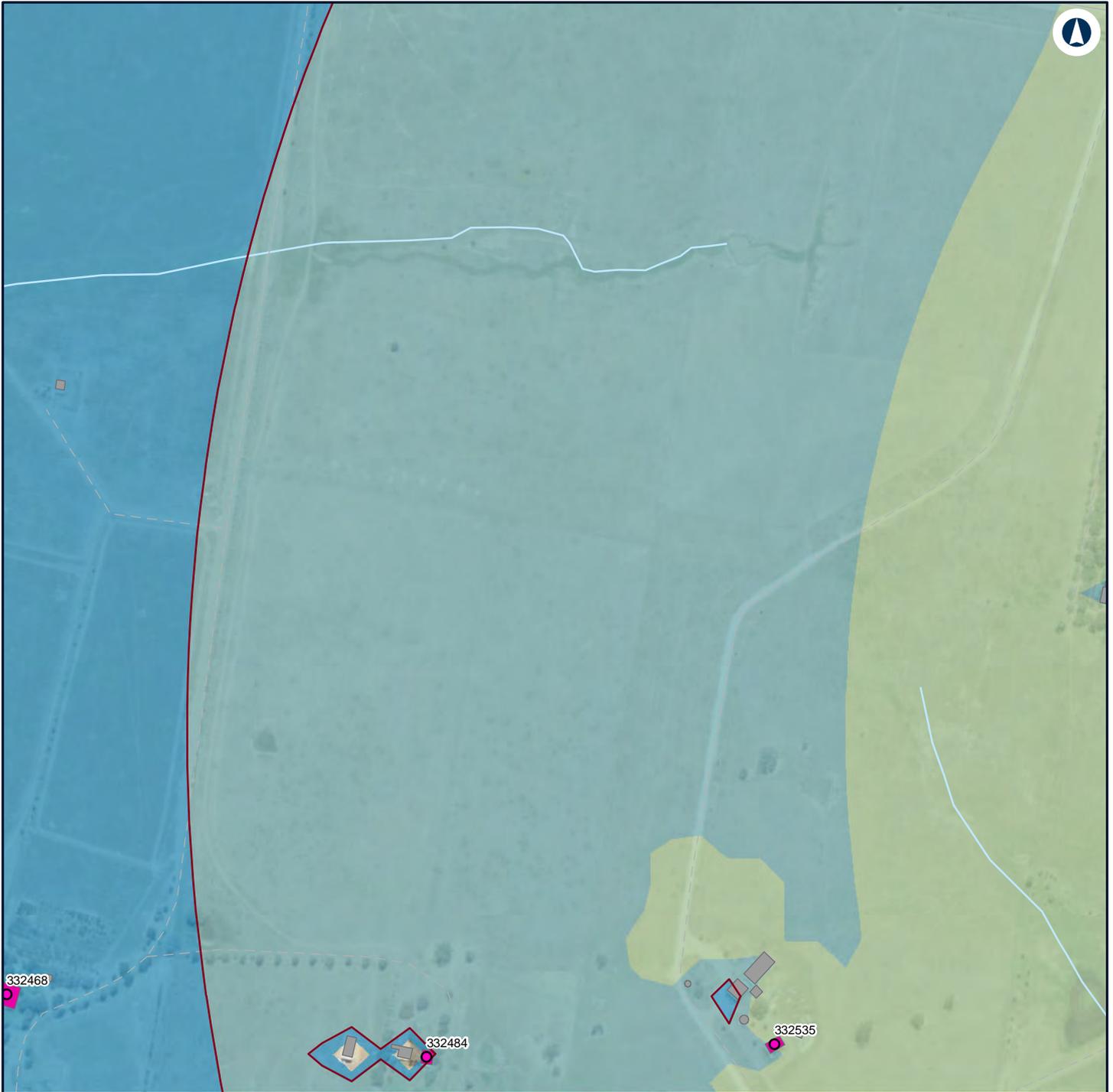
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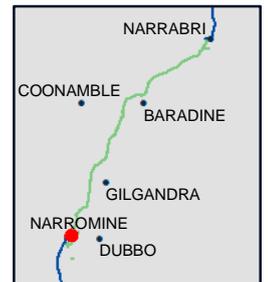


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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 55 of 304



Coordinate System: GDA 1994 MGA Zone 55

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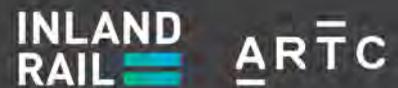
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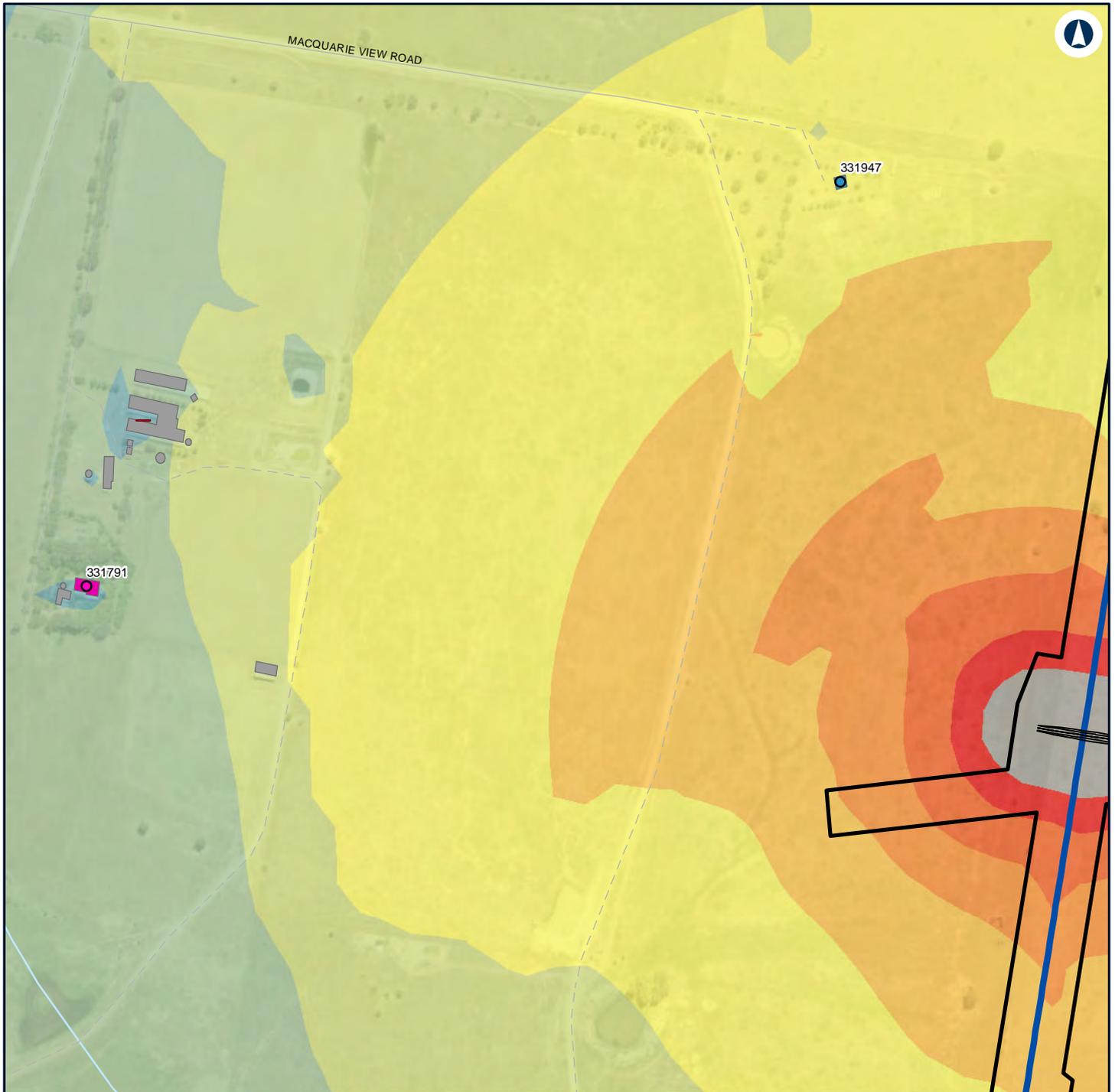
Author: GHD

Scale: 1:5,000

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LEGEND

- | | | |
|------------------------|---------------------------|---------|
| Alignment | Active recreation | 45 - 50 |
| Road design string | Other | 50 - 55 |
| Construction footprint | Residential | 55 - 60 |
| Structure type | Noise level (dBA L | 60 - 65 |
| Active recreation | Aeq 15 minute) | 65 - 70 |
| Residential | 35 - 40 | 70 - 75 |
| | 40 - 45 | > 75 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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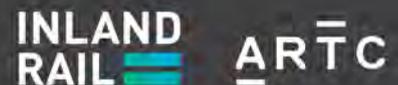
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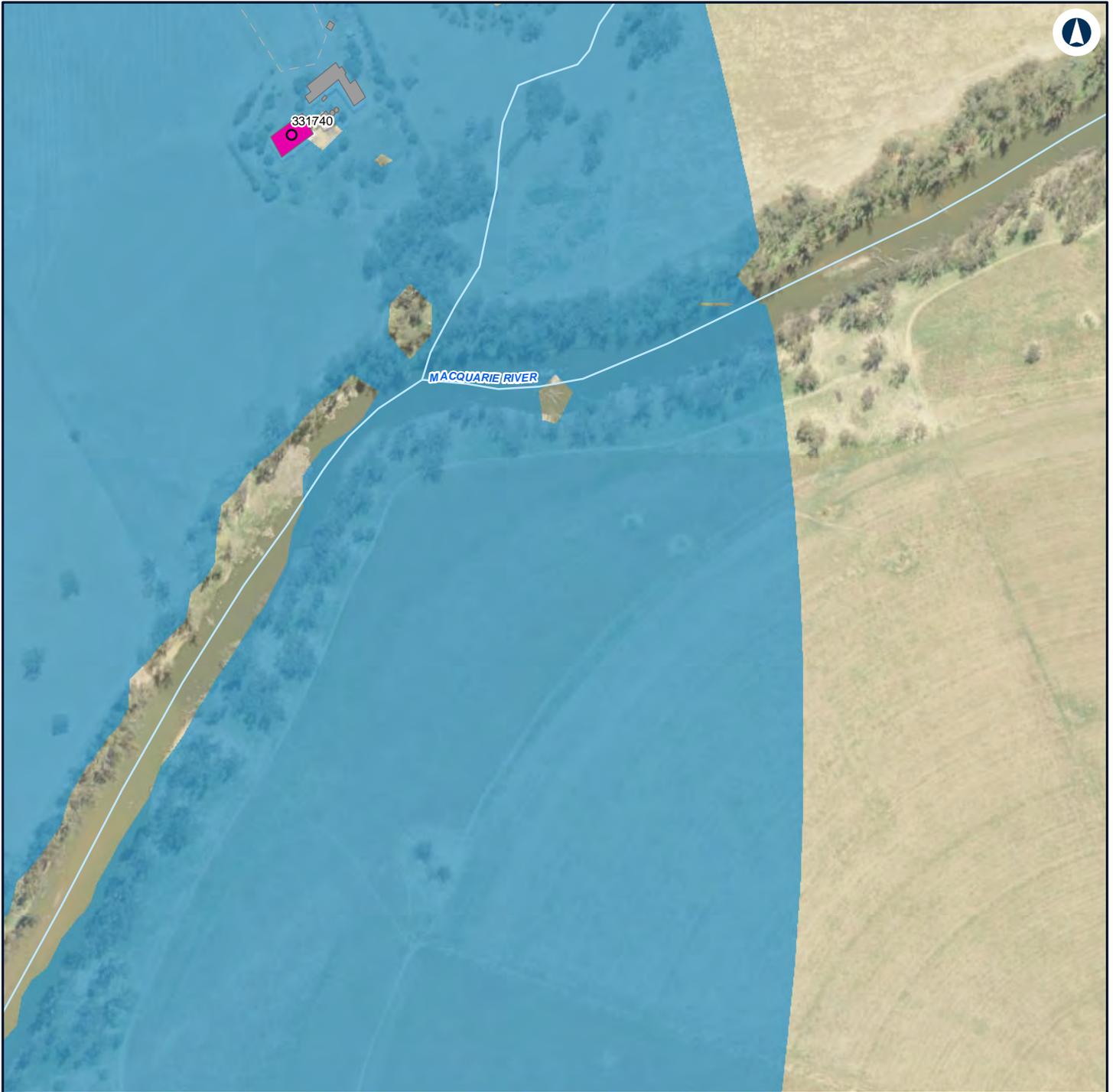
Author: GHD

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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

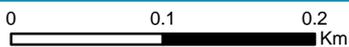
- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 57 of 304



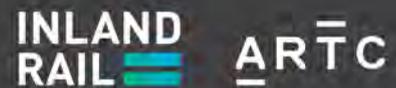
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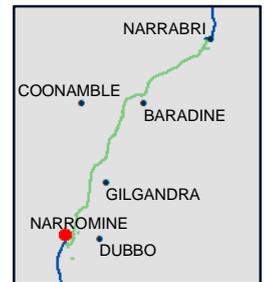
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



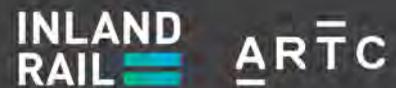
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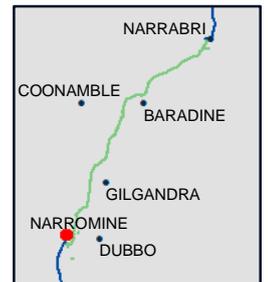


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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



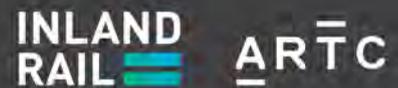
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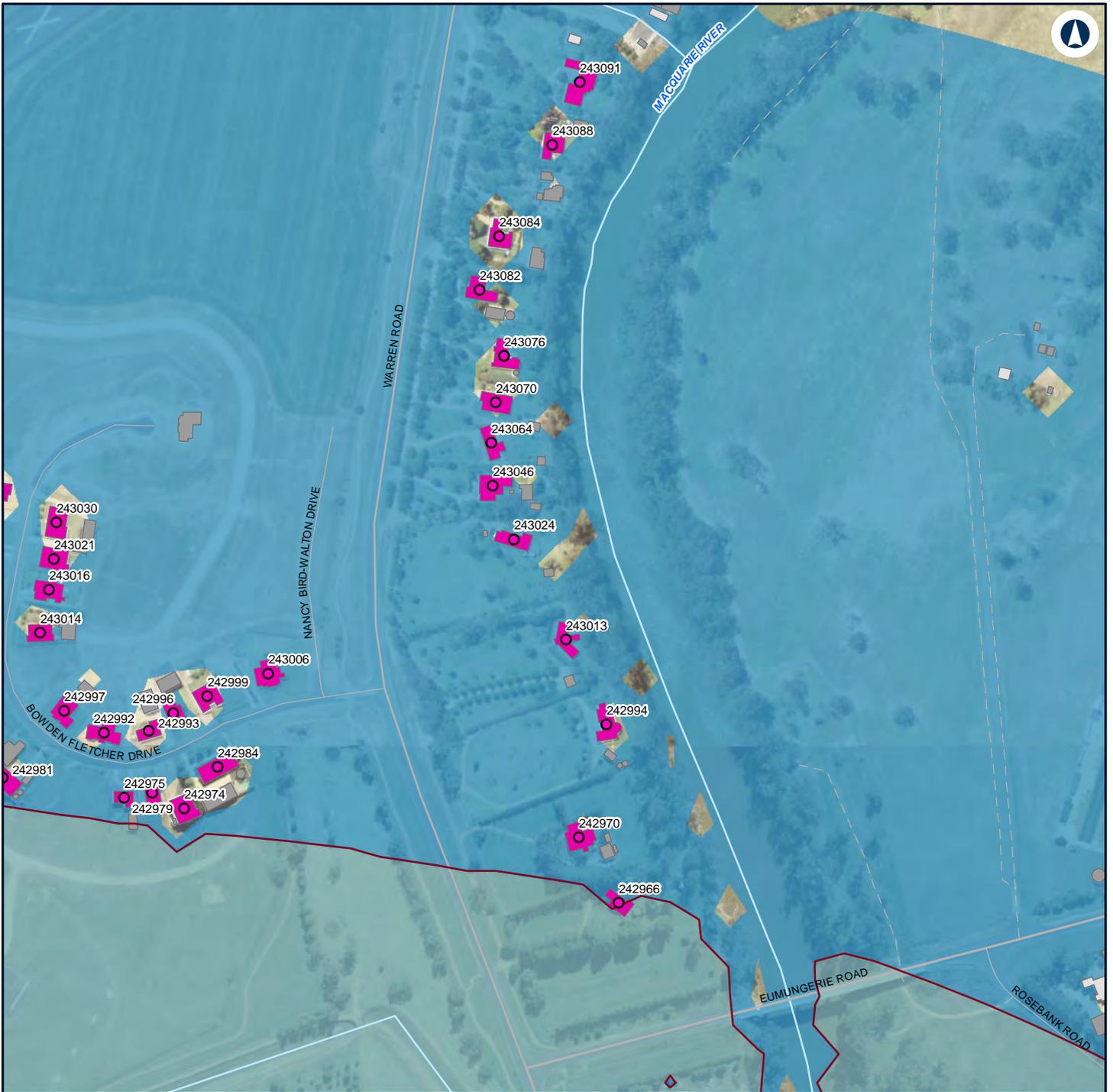
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 Author: GHD Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

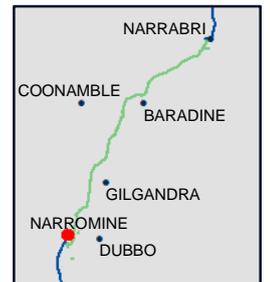


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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

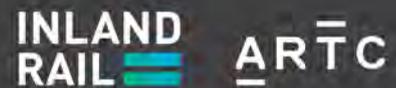
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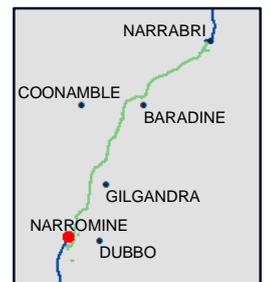


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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	35 - 40
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

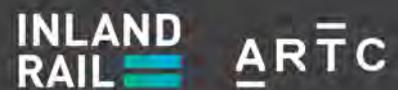
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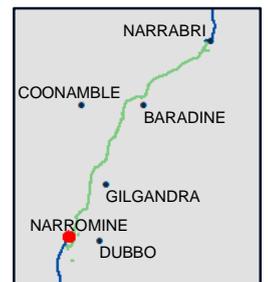


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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Residential	30 - 35
Commercial/ Industrial	
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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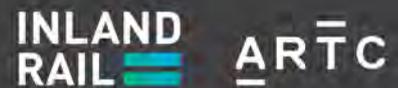
Date: 16/07/2020

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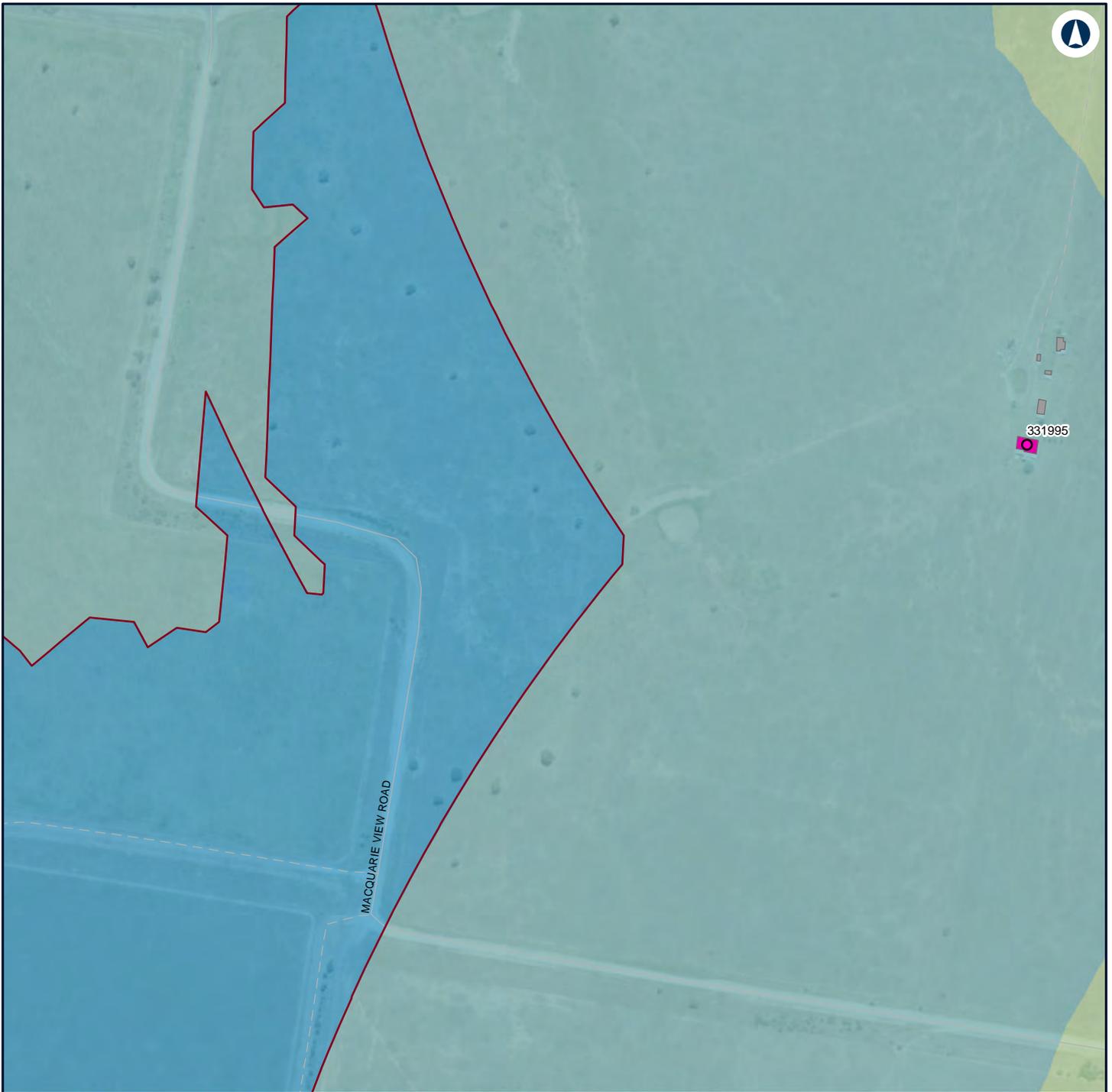
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

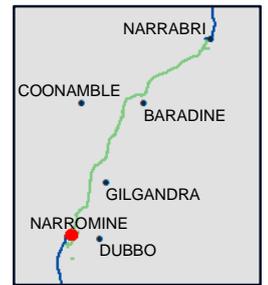


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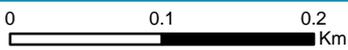
LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



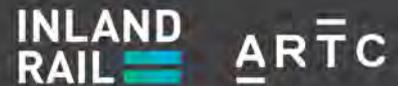
Coordinate System: GDA 1994 MGA Zone 55

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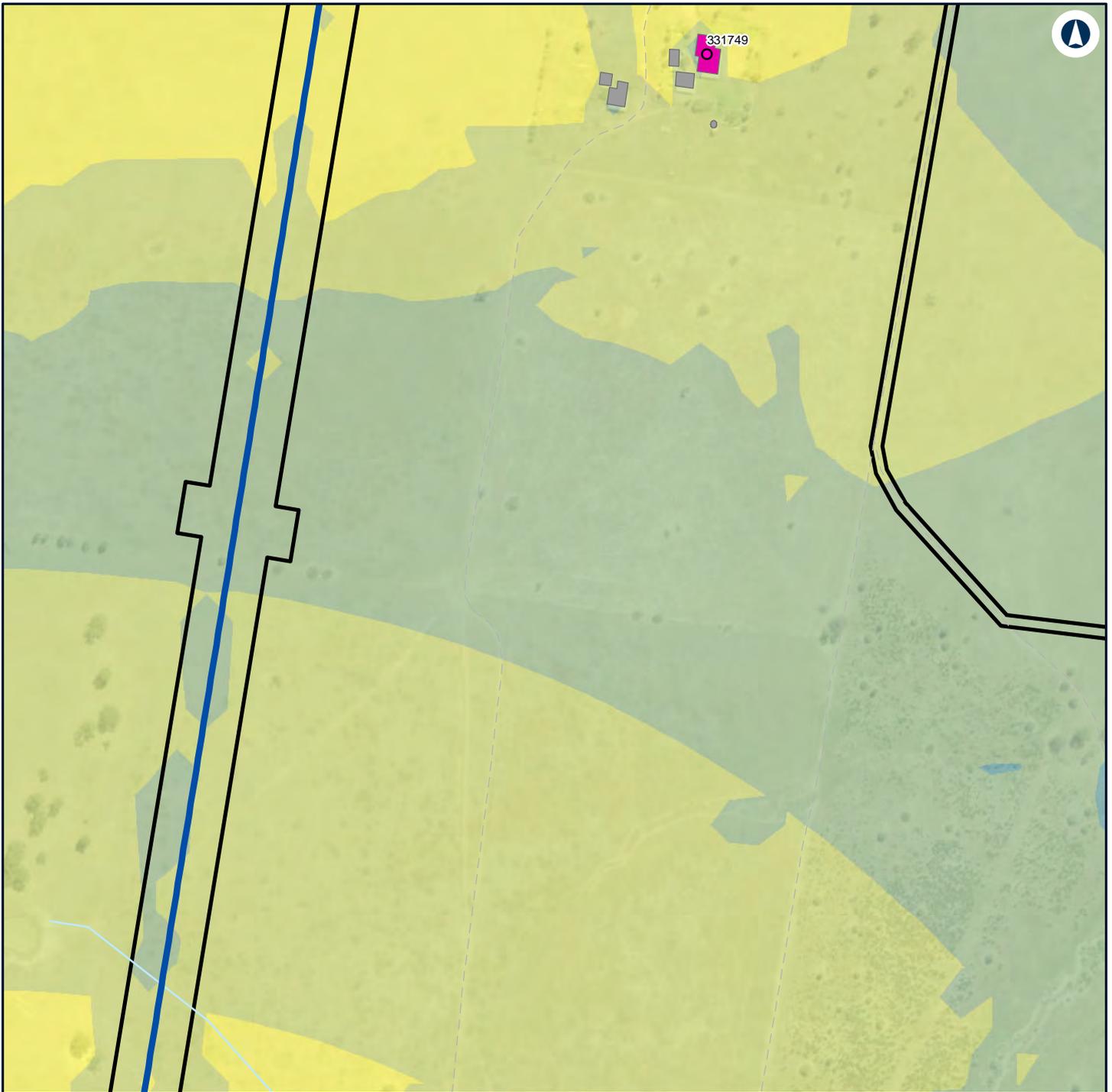
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LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 35 - 40
 - 40 - 45
 - 45 - 50
 - 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

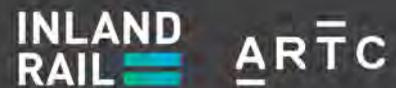
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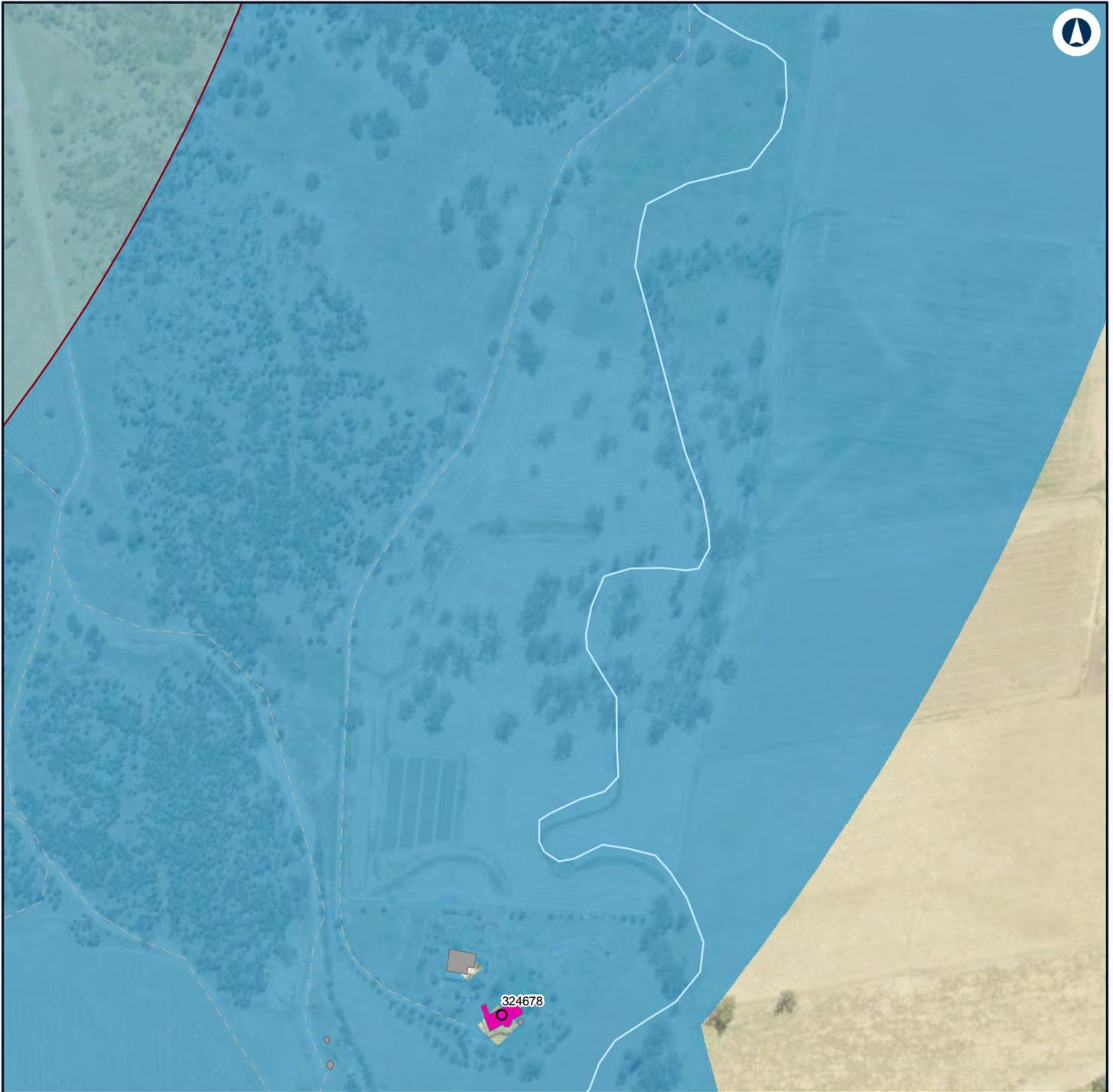
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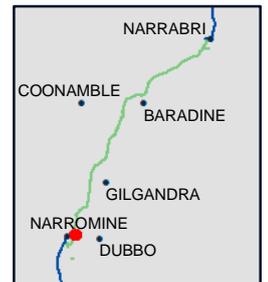


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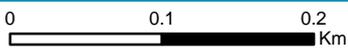
LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

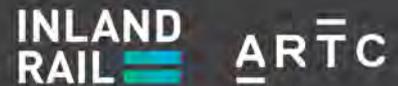
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



0 0.1 0.2 Km

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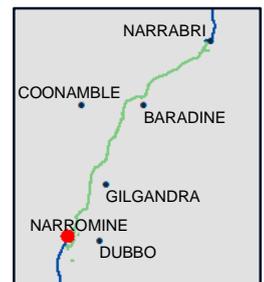
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LEGEND

Structure type	Noise level (dBA L
Residential	Aeq 15 minute)
Commercial/ Industrial	30 - 35
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

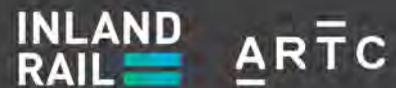
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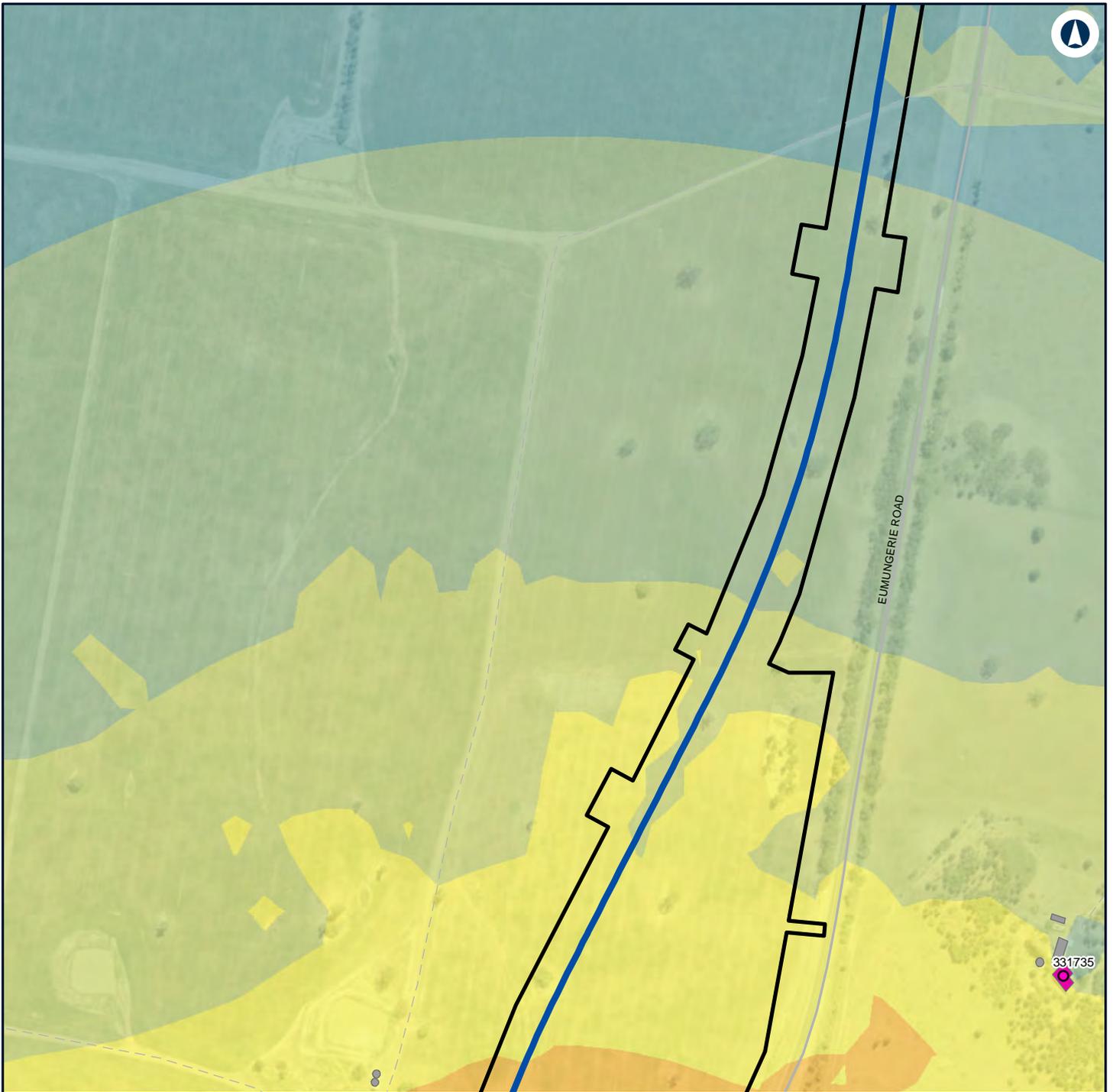
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- | | |
|------------------------|---------------------------|
| Alignment | Noise level (dBA L |
| Construction footprint | Aeq 15 minute) |
| Structure type | 35 - 40 |
| Residential | 40 - 45 |
| Other | 45 - 50 |
| Residential | 50 - 55 |
| | 55 - 60 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

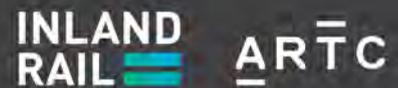
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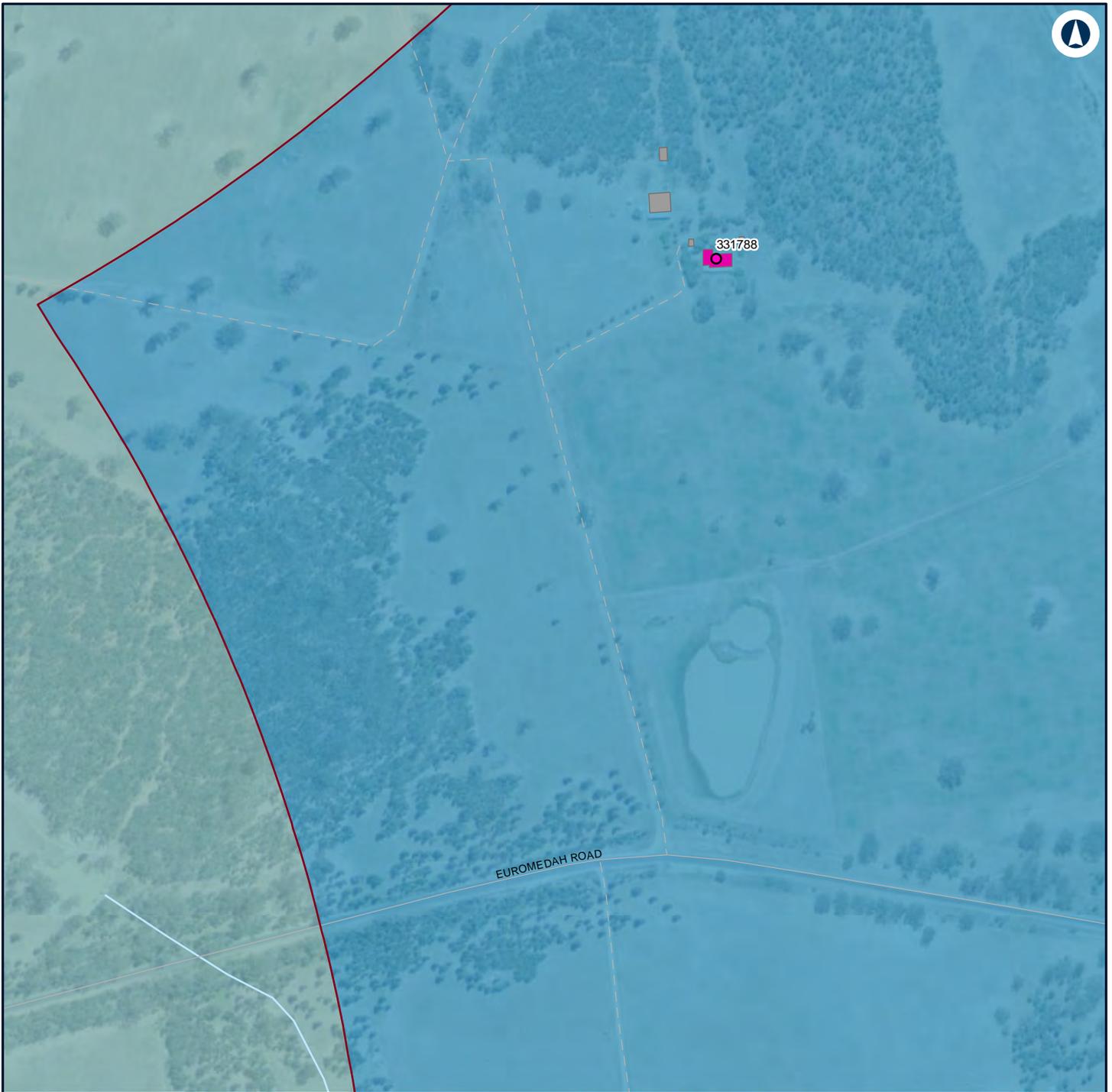
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



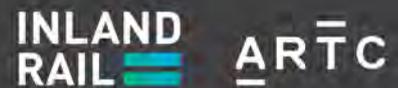
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

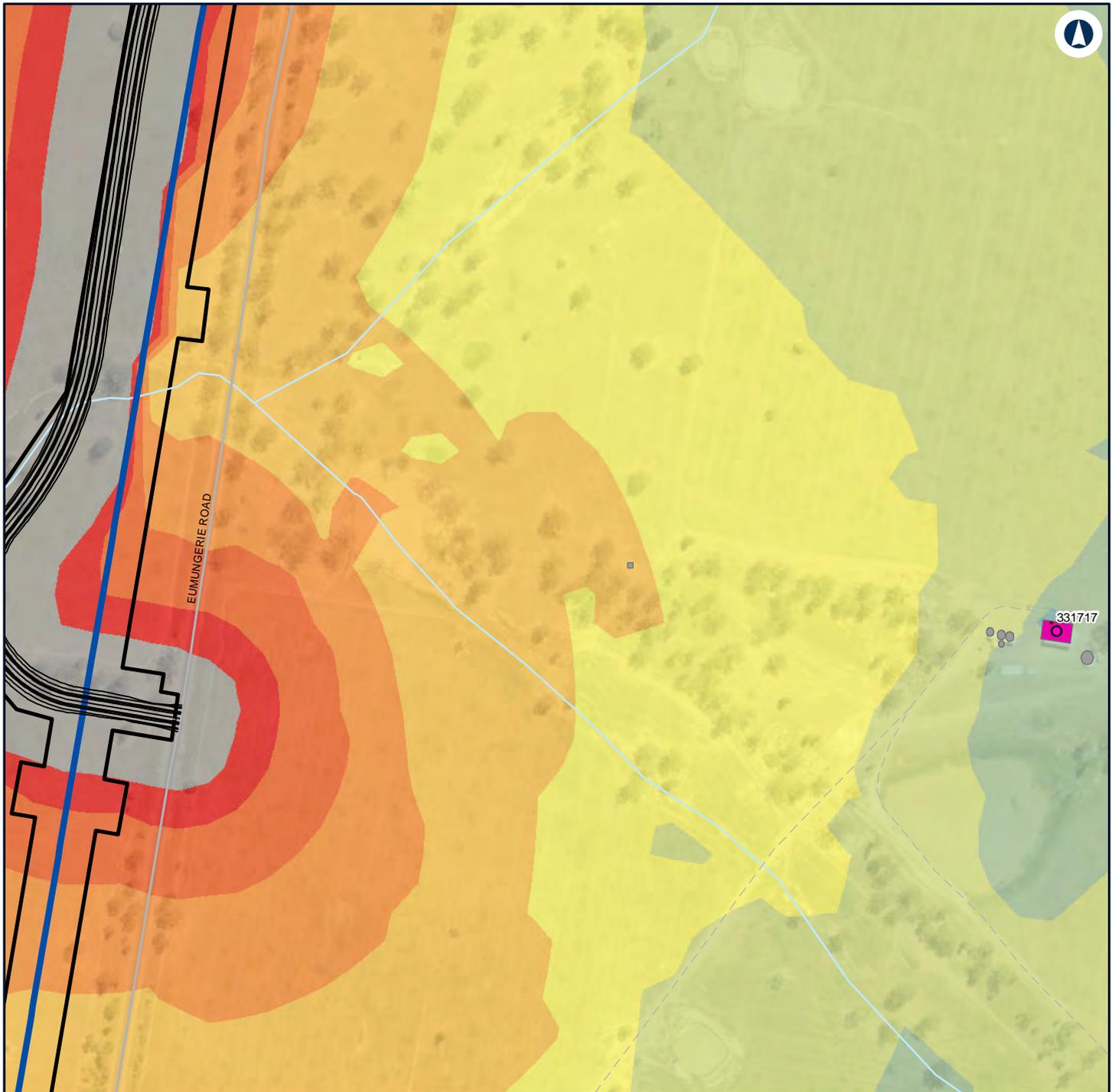
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LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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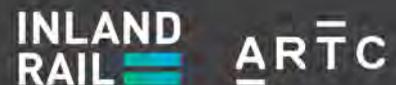
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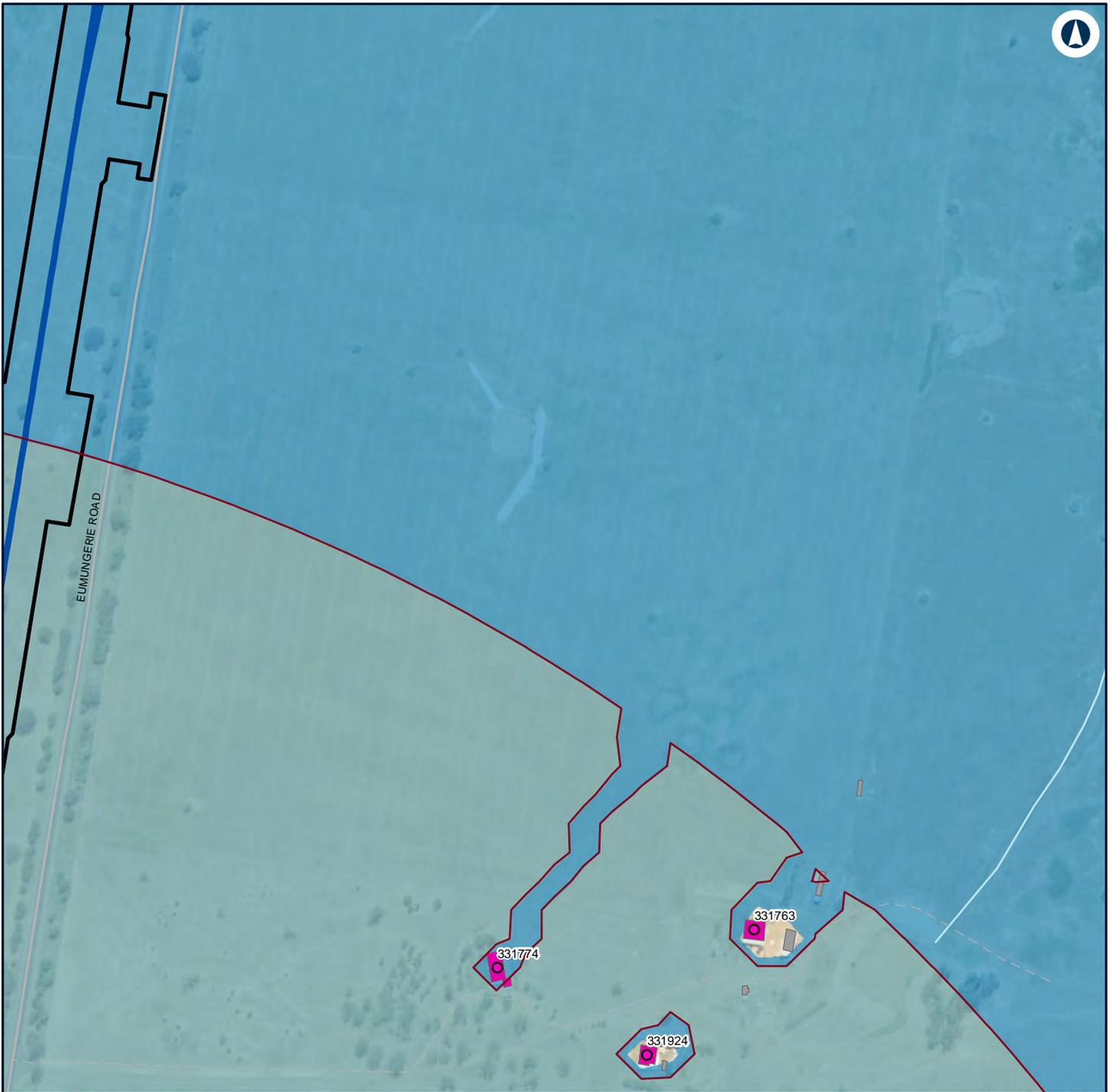
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

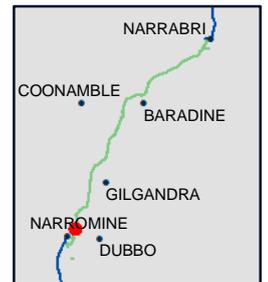


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LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
 - 30 - 35
 - 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

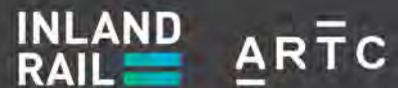
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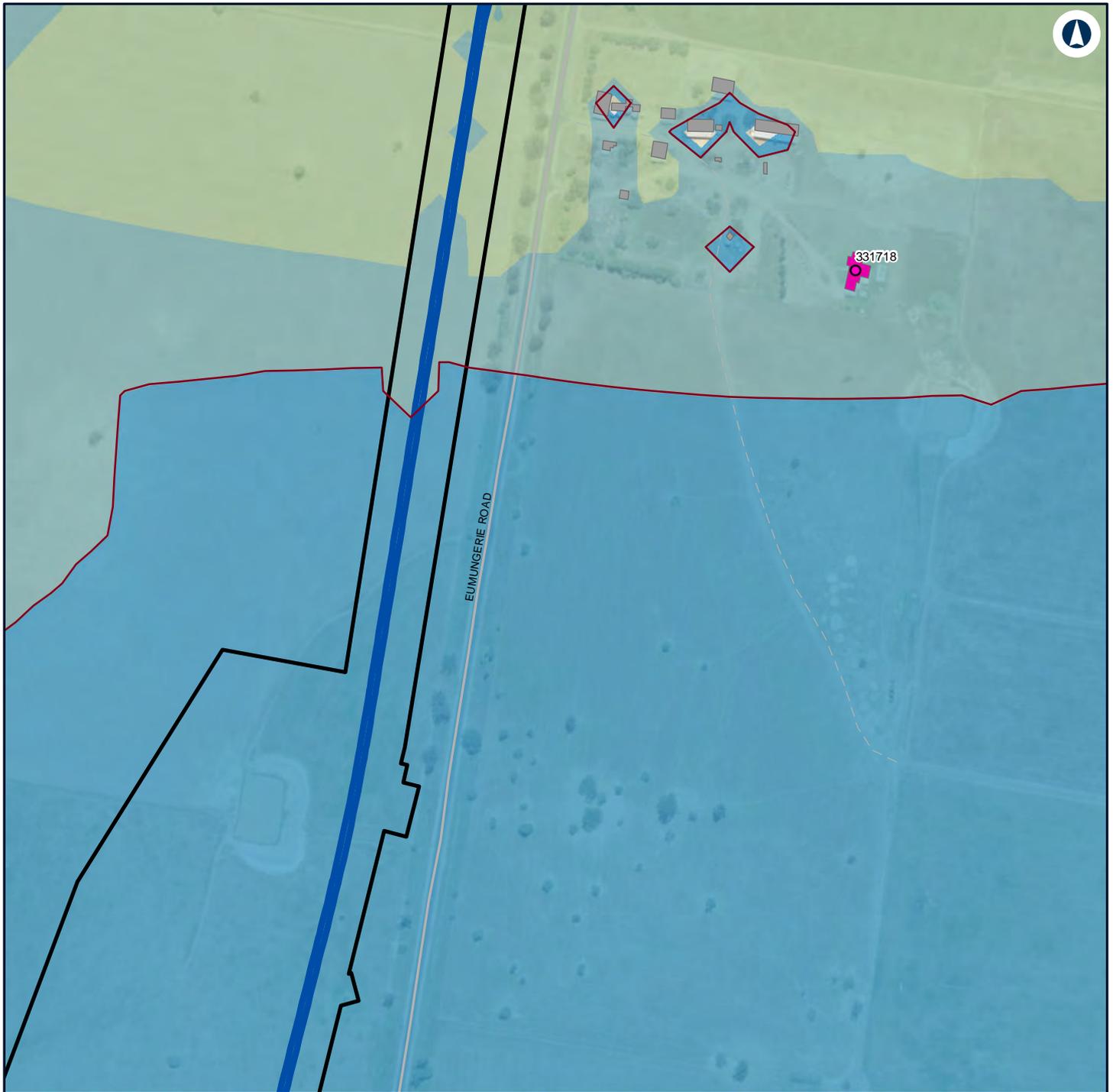
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|---|-----------------------|
| Noise level (dBA L | Aeq 15 minute) |
| | 30 - 35 |
| | 35 - 40 |
| | 40 - 45 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 73 of 304



Coordinate System: GDA 1994 MGA Zone 55

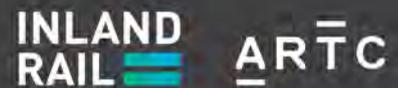
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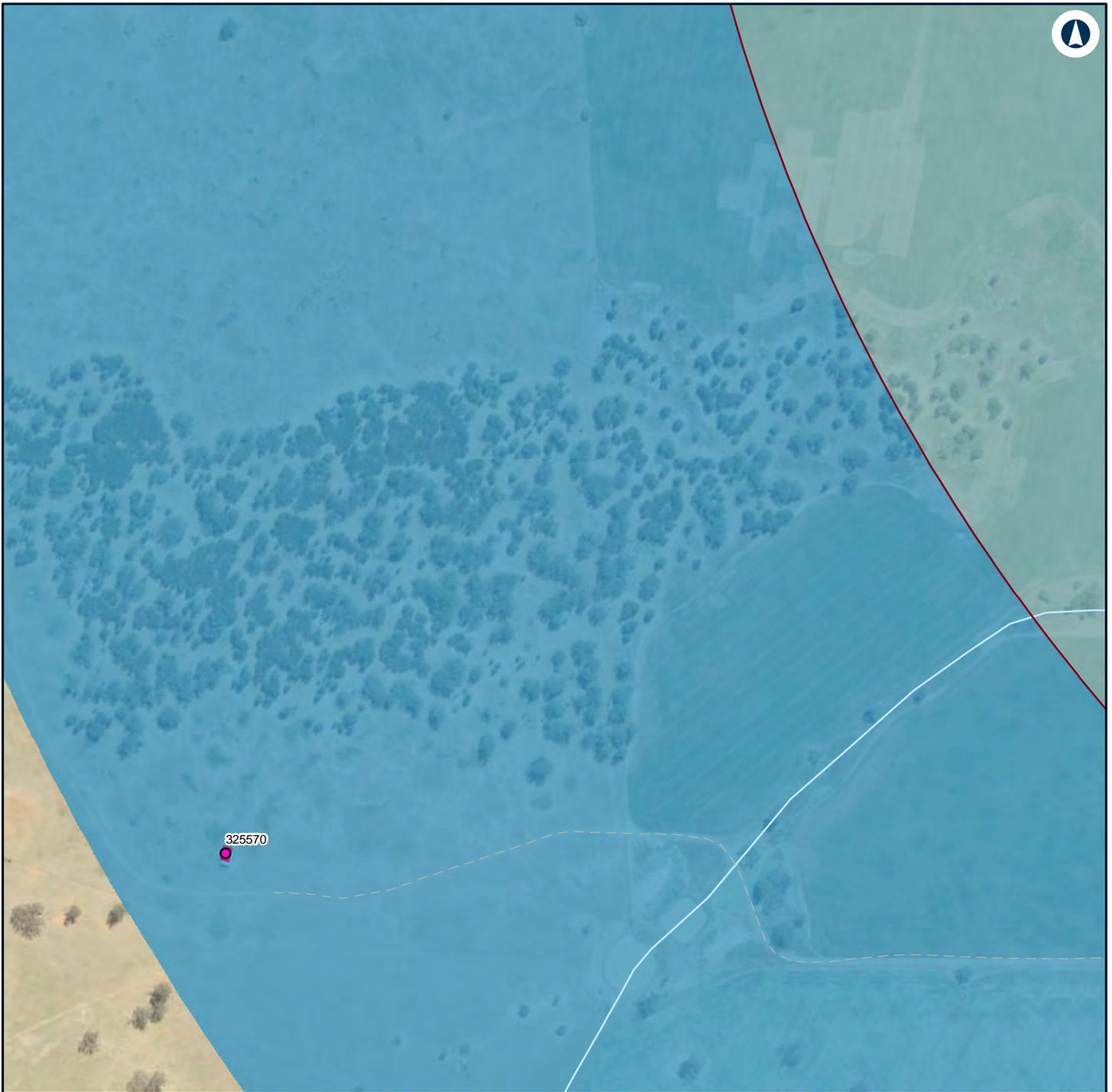
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LEGEND

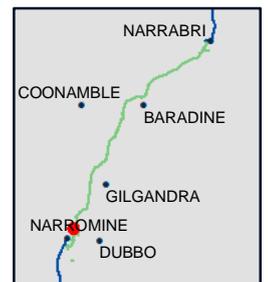
Structure type

- Residential
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 74 of 304



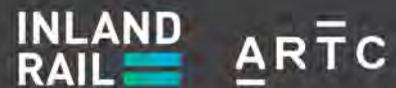
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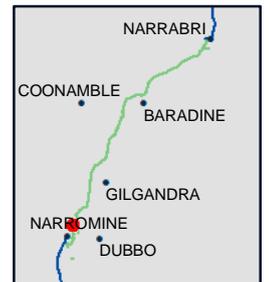
LEGEND

Structure type

- Residential
- Other
- Residential

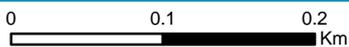
Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

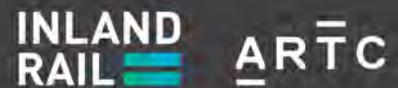
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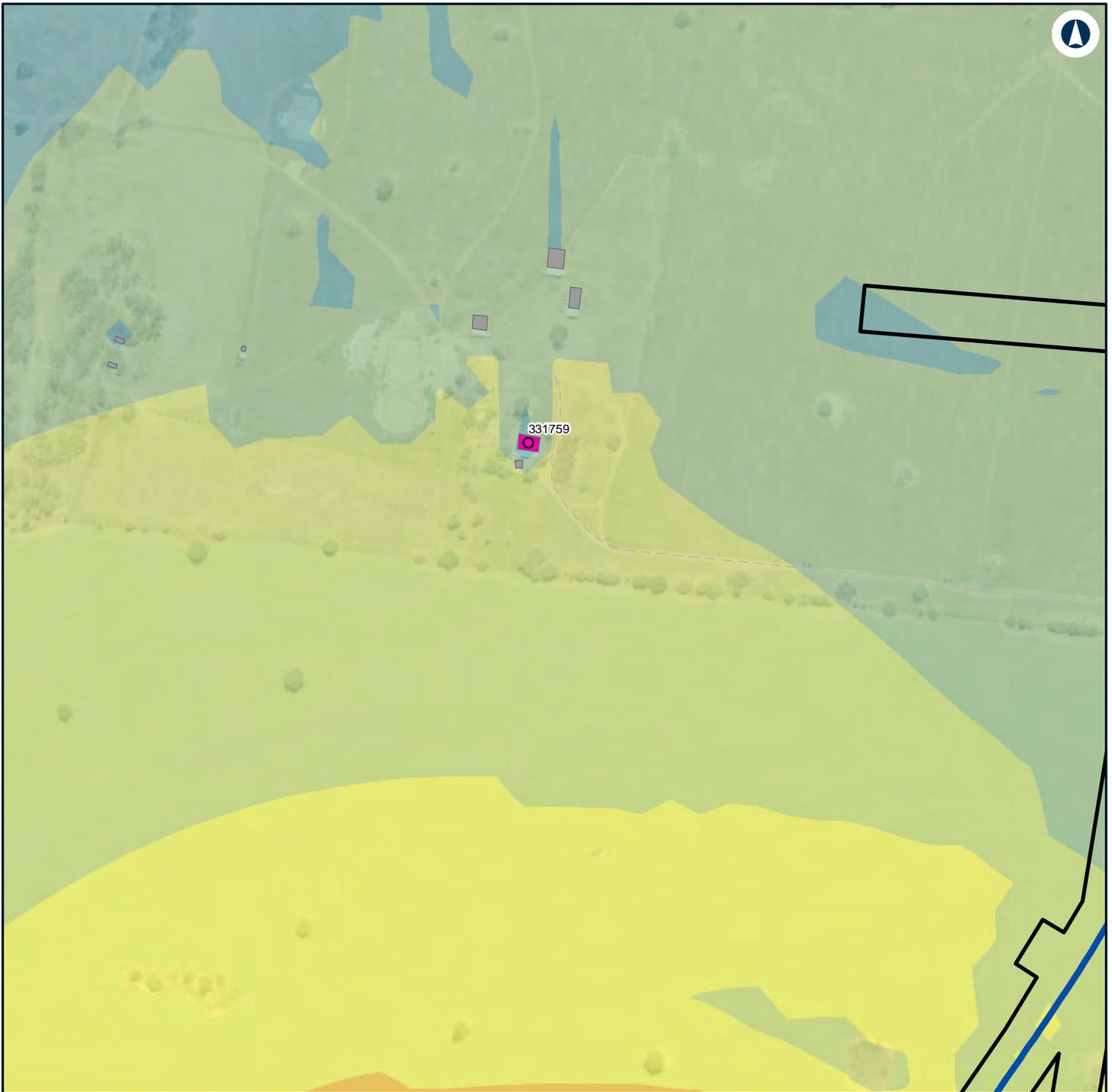
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LEGEND

— Alignment

▭ Construction footprint

Structure type

● Residential

■ Other

■ Residential

Noise level (dBA L

Aeq 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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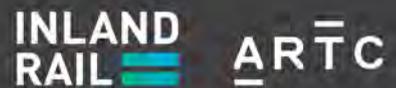
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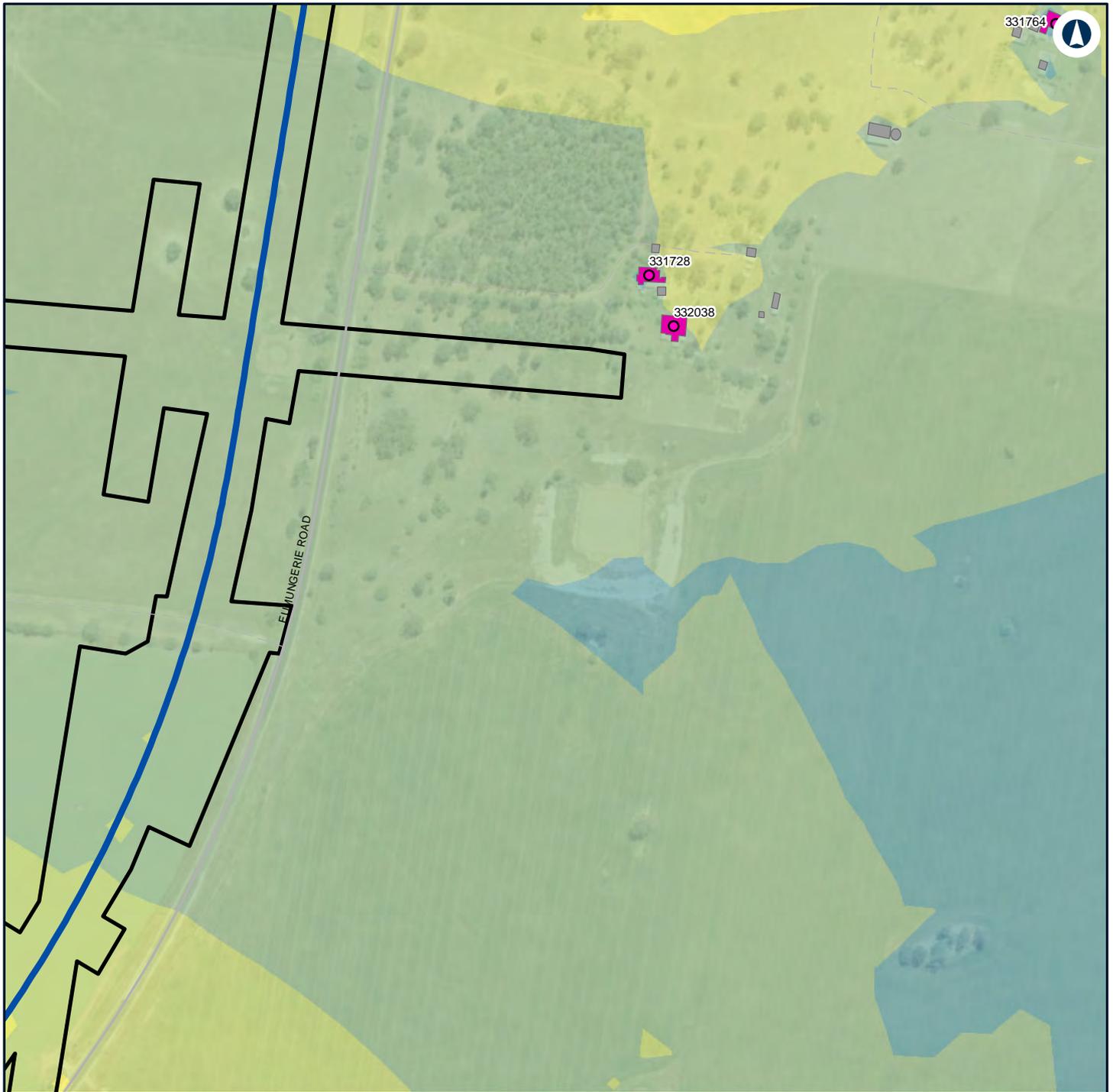
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|---|-----------------------|
| Noise level (dBA L | Aeq 15 minute) |
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |
| | 50 - 55 |



NARRABRIE TO NARRABRIE

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

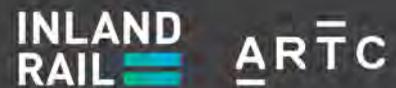
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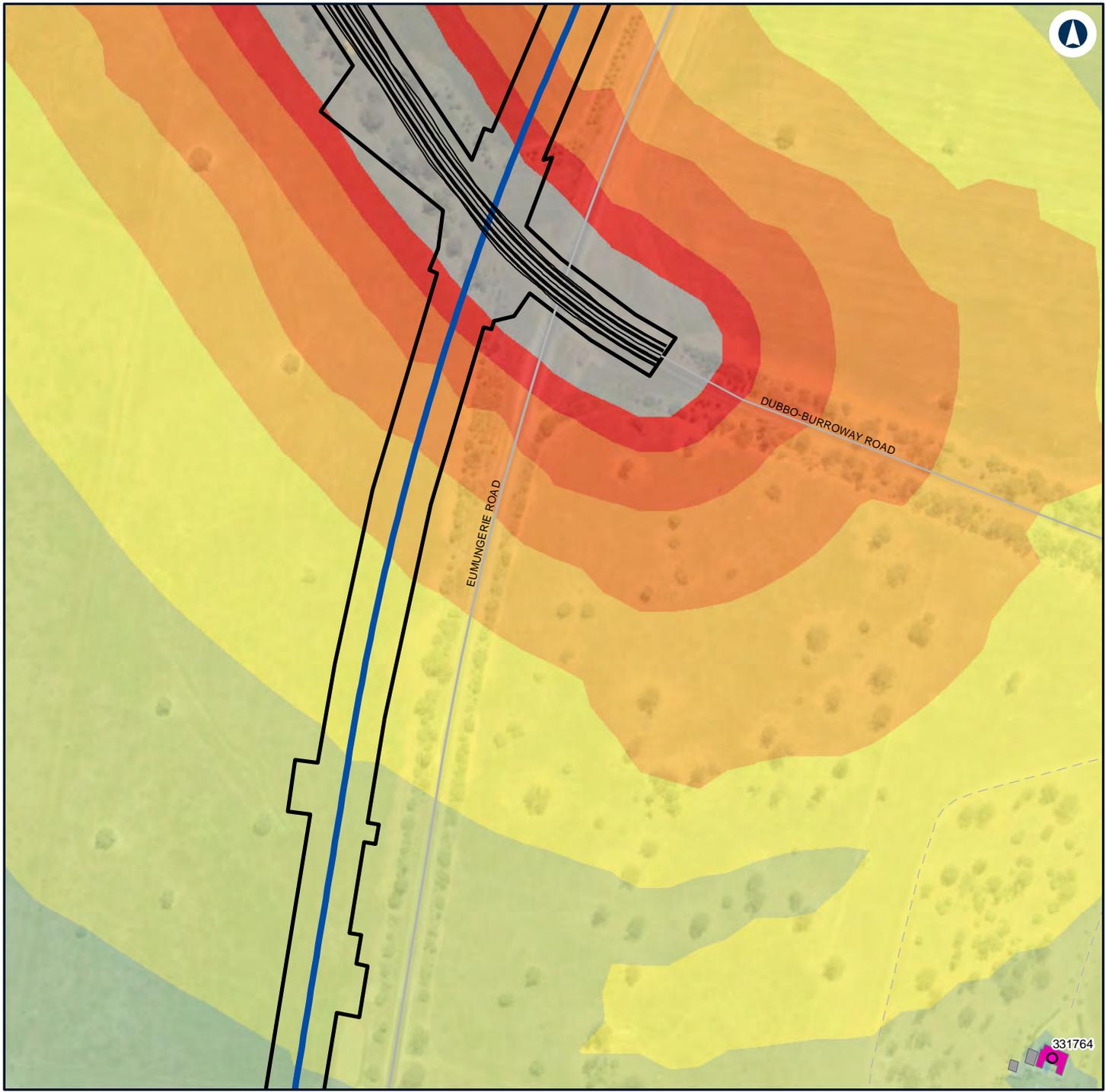
Date: 16/07/2020
Author: GHD

Paper: A4
Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

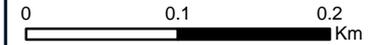


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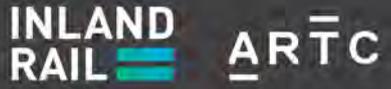
LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75

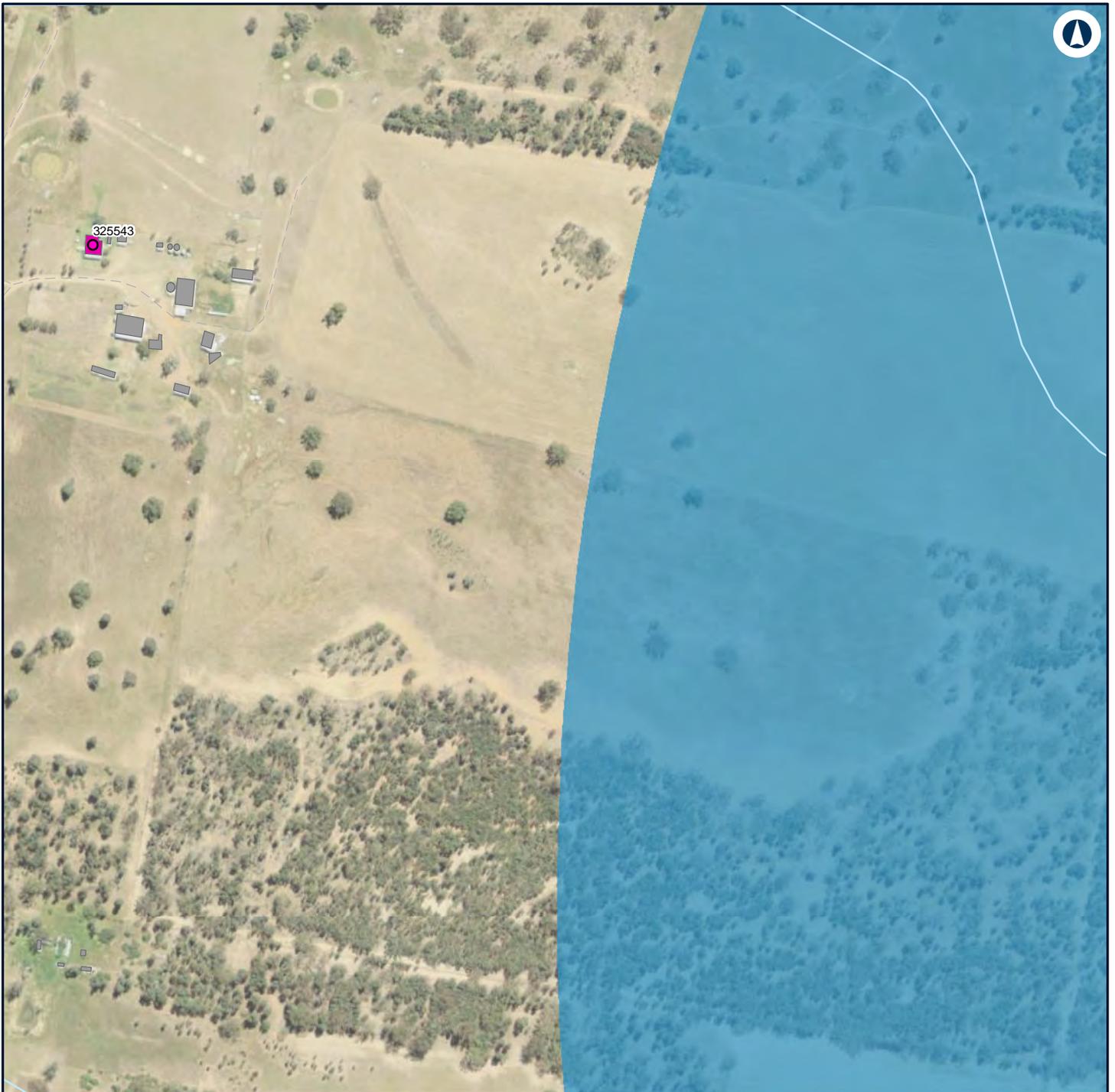


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LEGEND

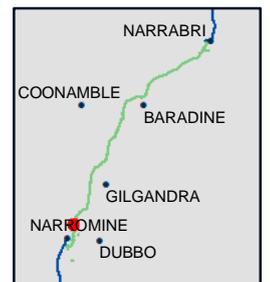
Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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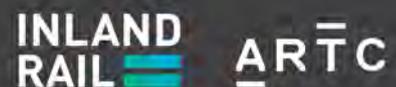
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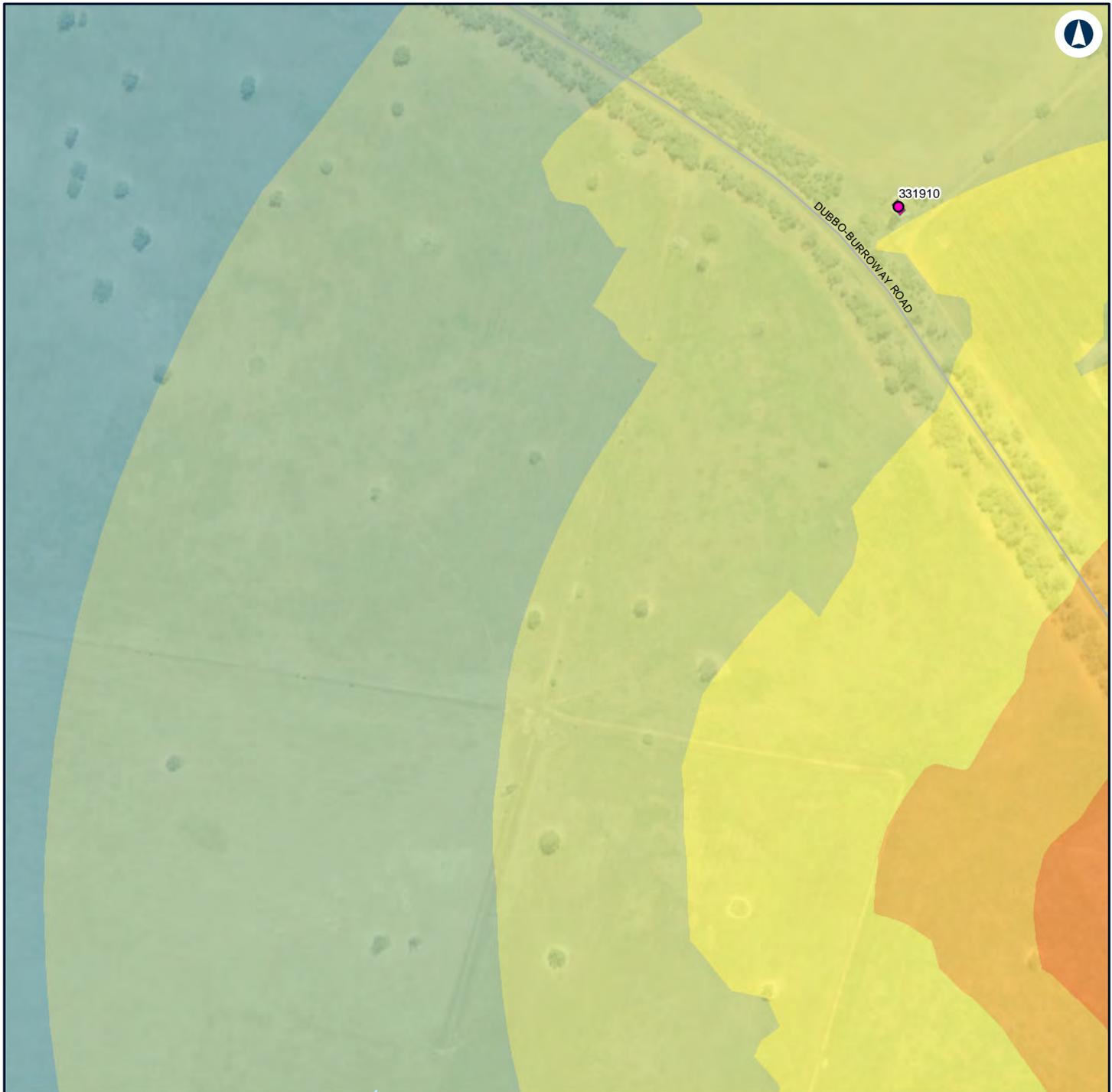
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LEGEND

Structure type		45 - 50
● Residential	50 - 55	
■ Residential	55 - 60	
Noise level (dBA L Aeq 15 minute)	60 - 65	
■ 35 - 40		
■ 40 - 45		



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



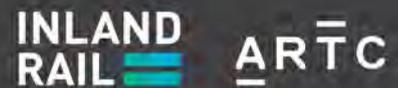
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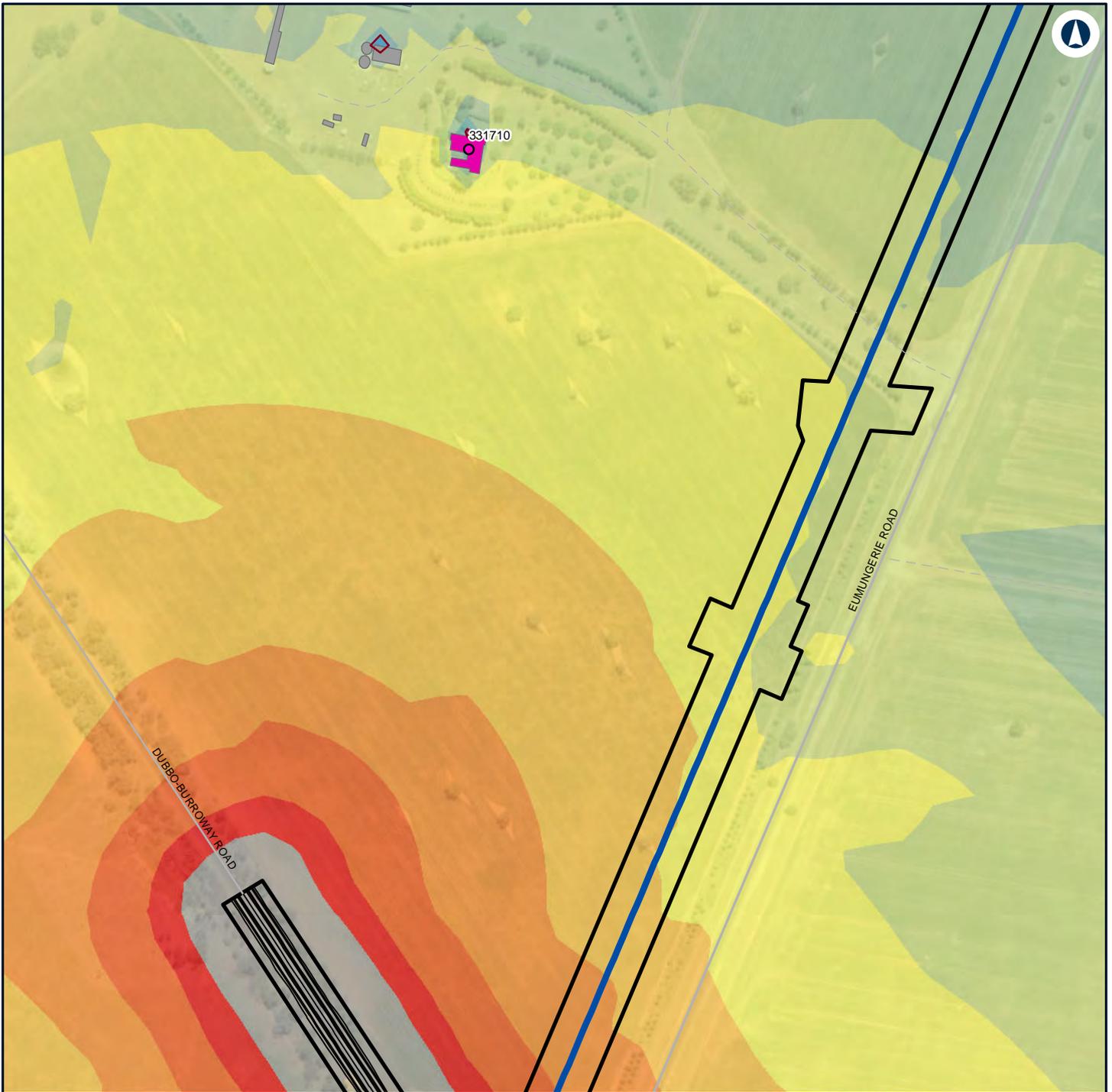
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LEGEND

Alignment	Residential	50 - 55
Road design string	Noise level (dBA L	55 - 60
Construction footprint	Aeq 15 minute)	60 - 65
Structure type	30 - 35	65 - 70
Residential	35 - 40	70 - 75
Other	40 - 45	> 75
	45 - 50	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

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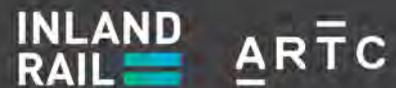
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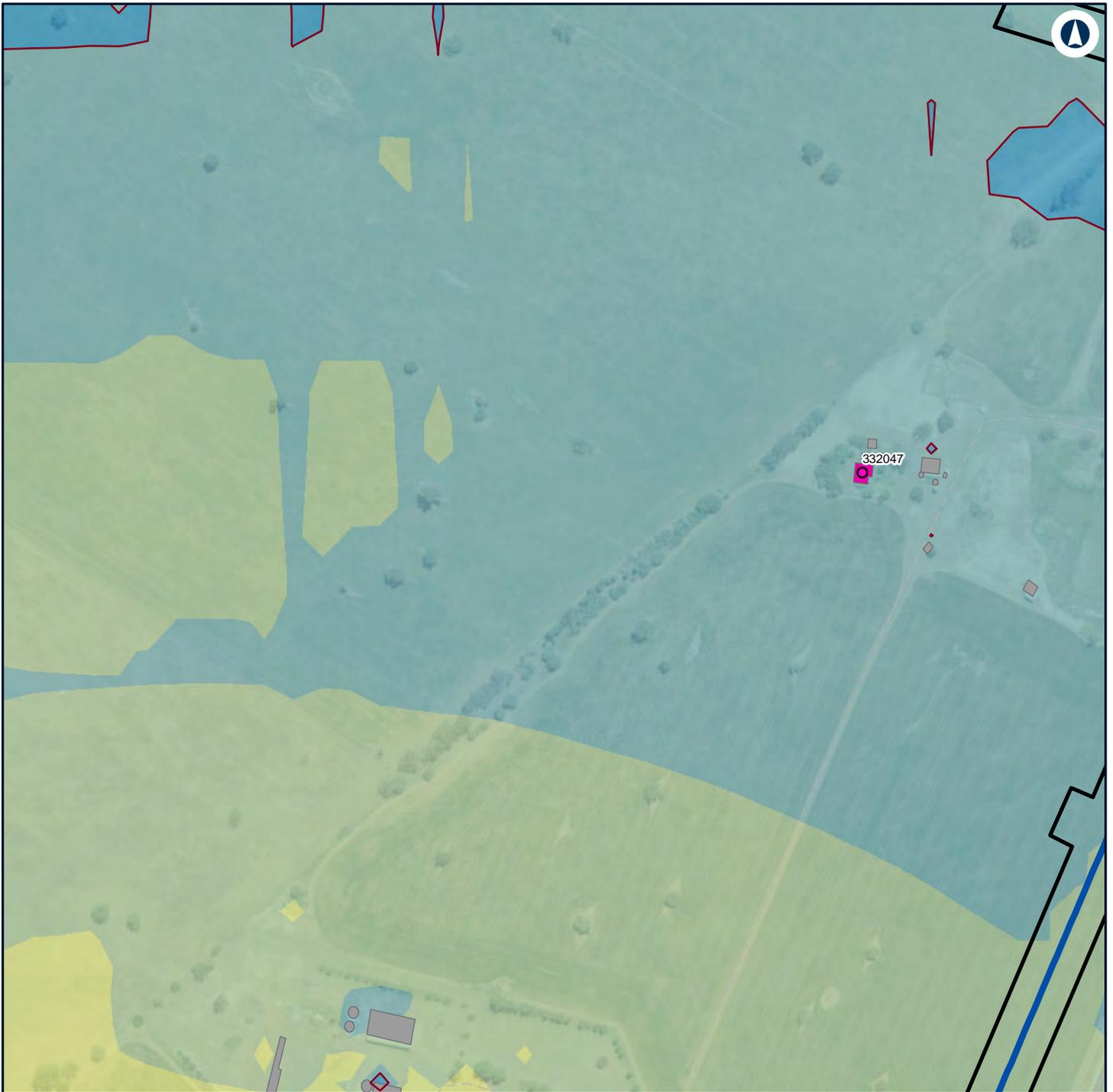
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|--|-----------------------|
| Noise level (dBA L | Aeq 15 minute) |
| | 30 - 35 |
| | 35 - 40 |
| | 40 - 45 |
| | 45 - 50 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

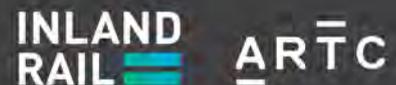
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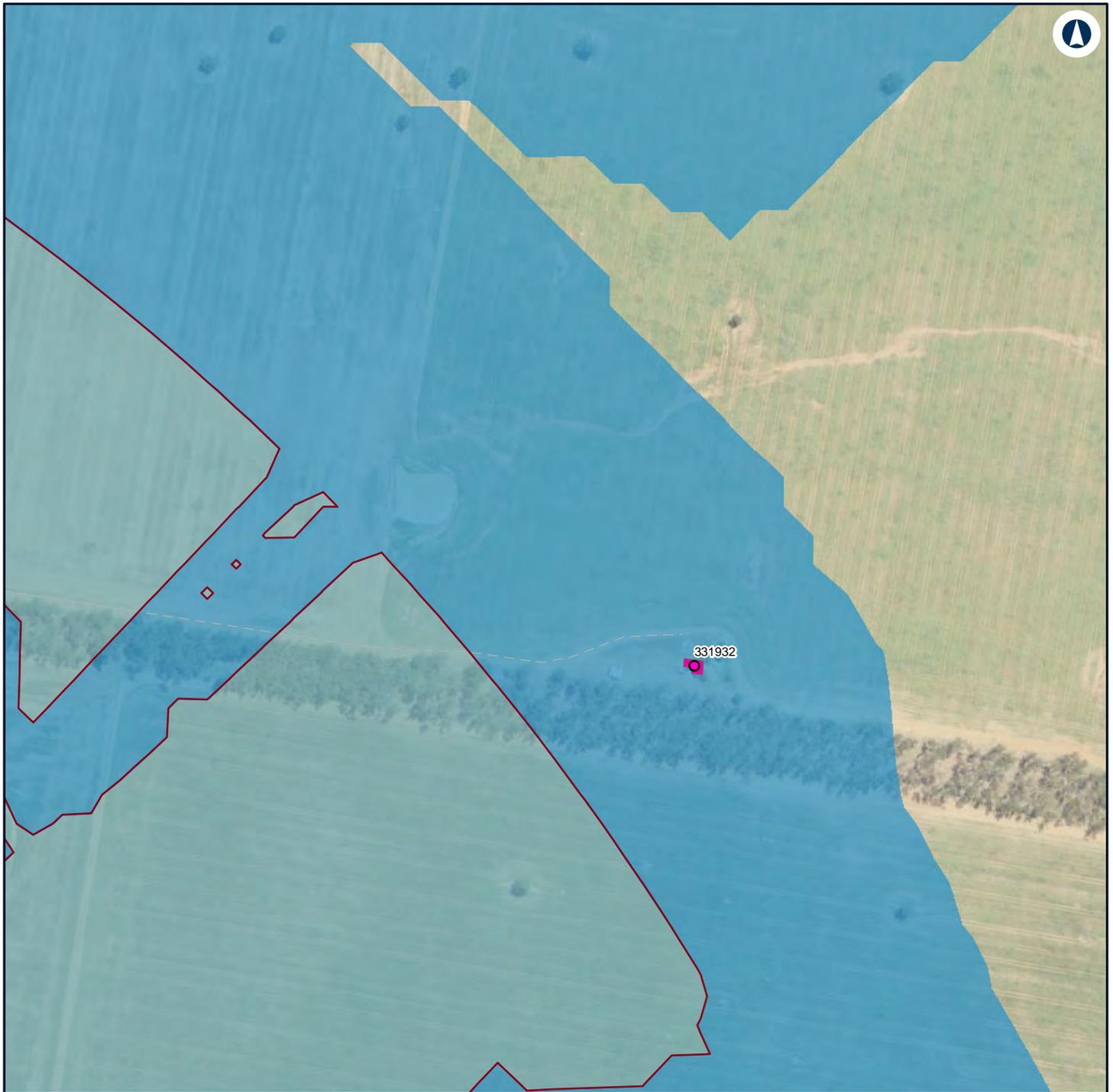
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Paper: A4
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LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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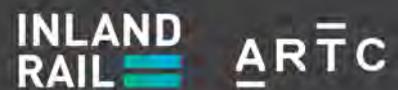
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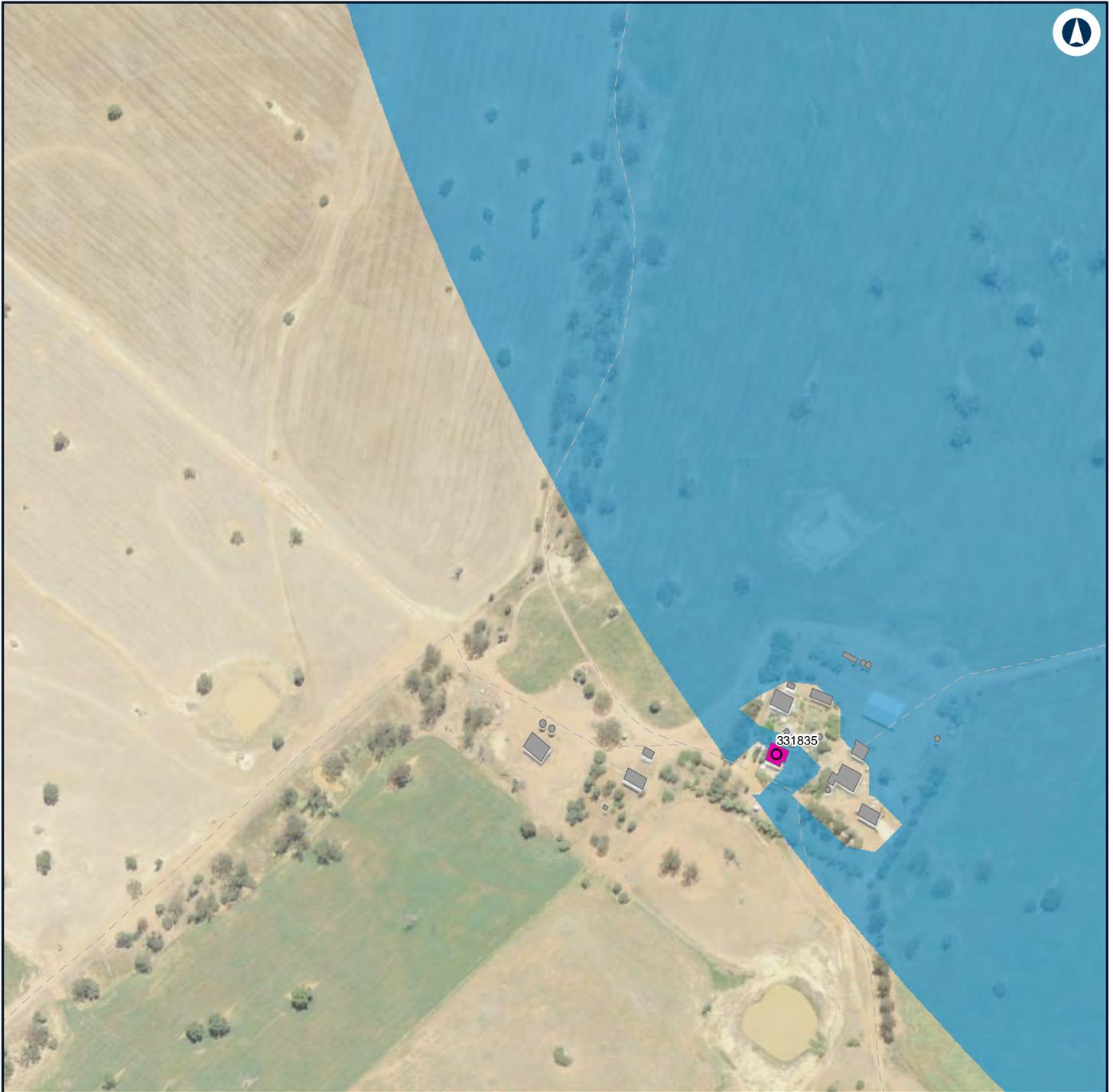
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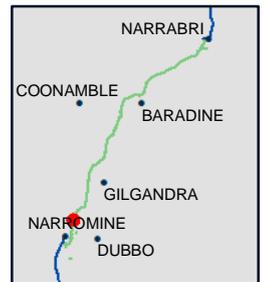
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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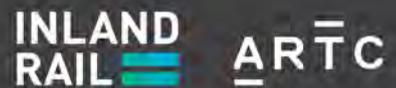
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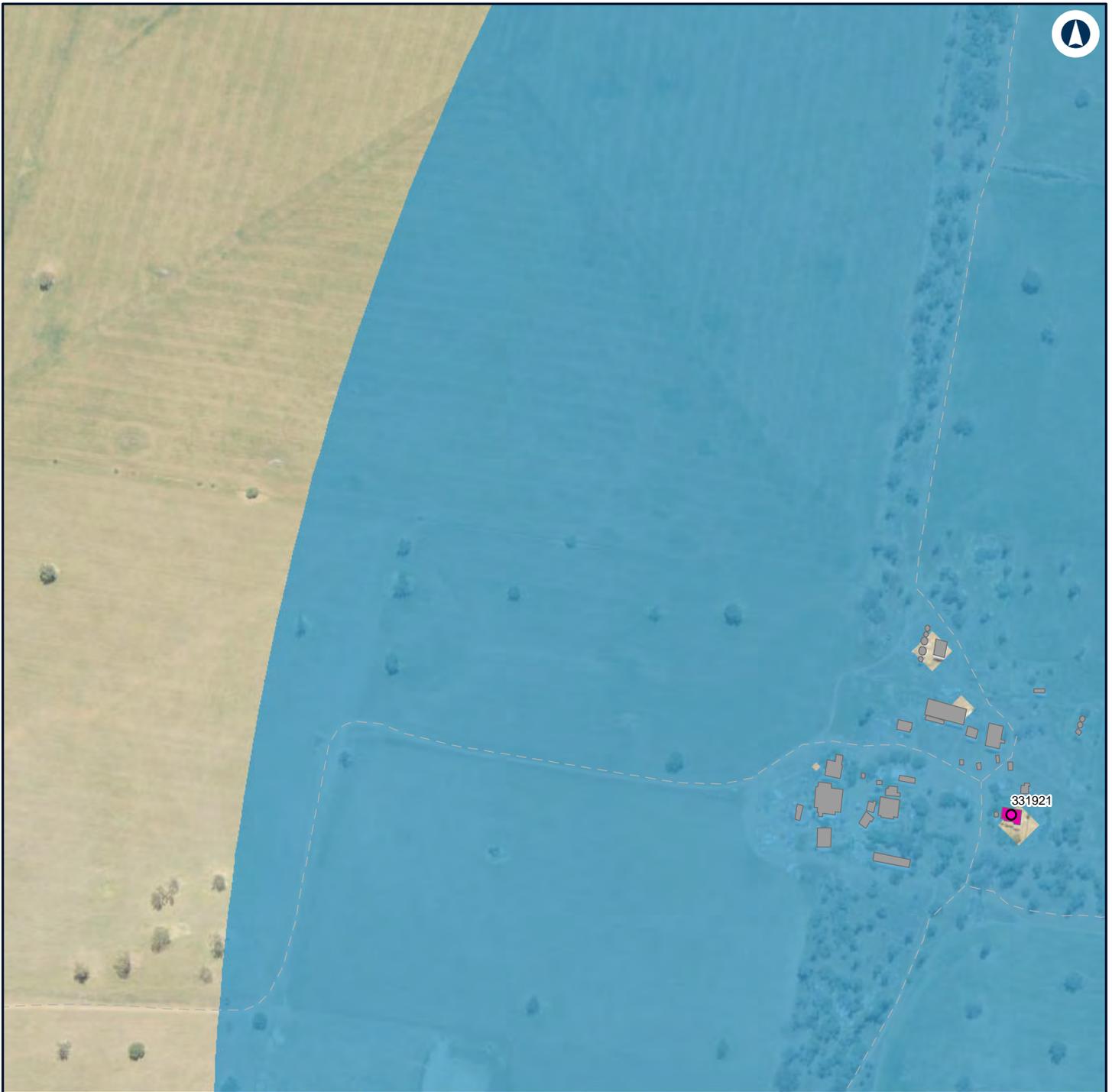
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 85 of 304



Coordinate System: GDA 1994 MGA Zone 55

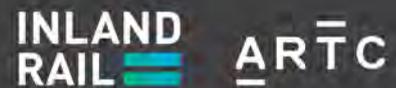
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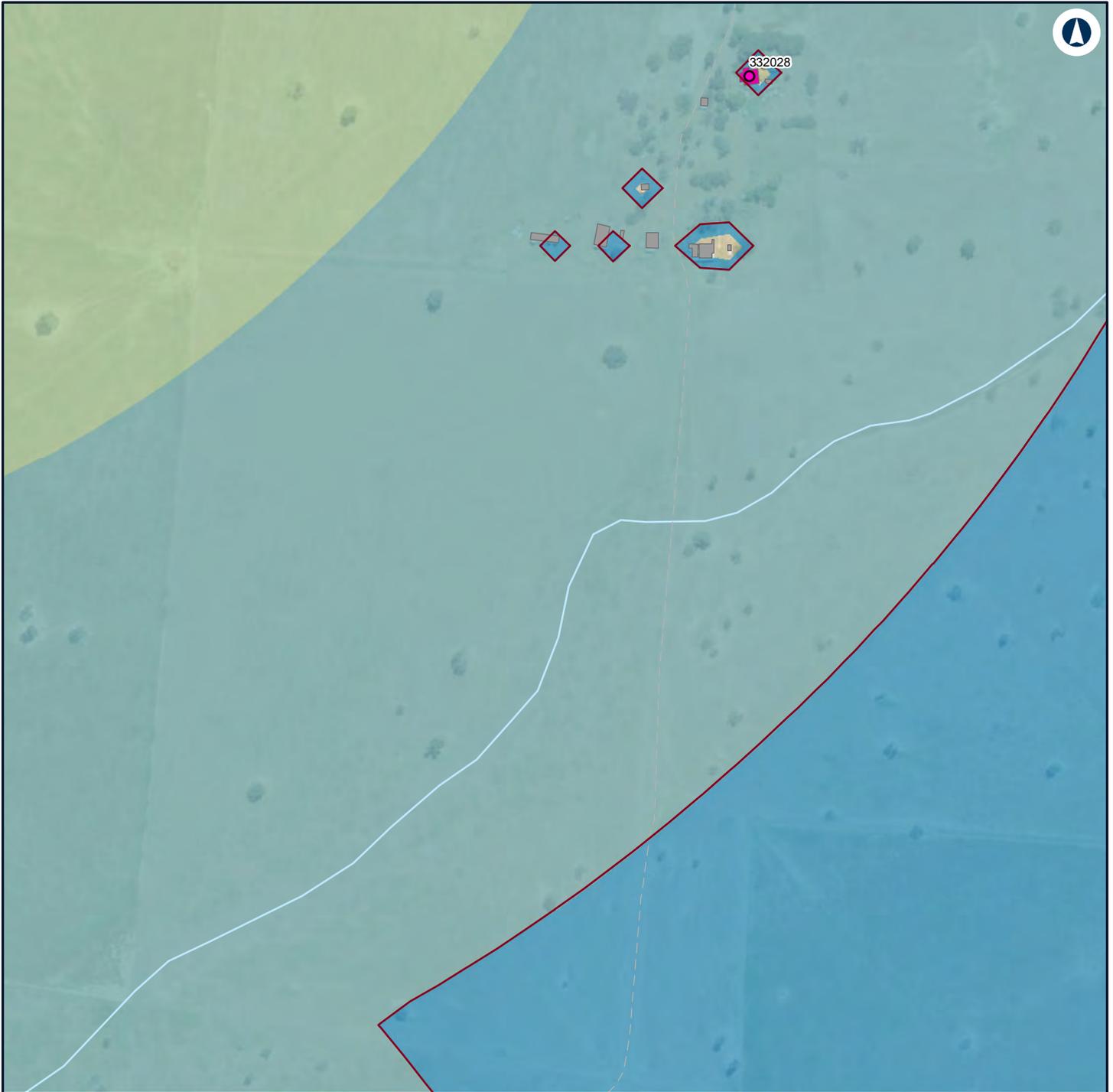
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - 40 - 45
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



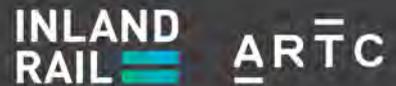
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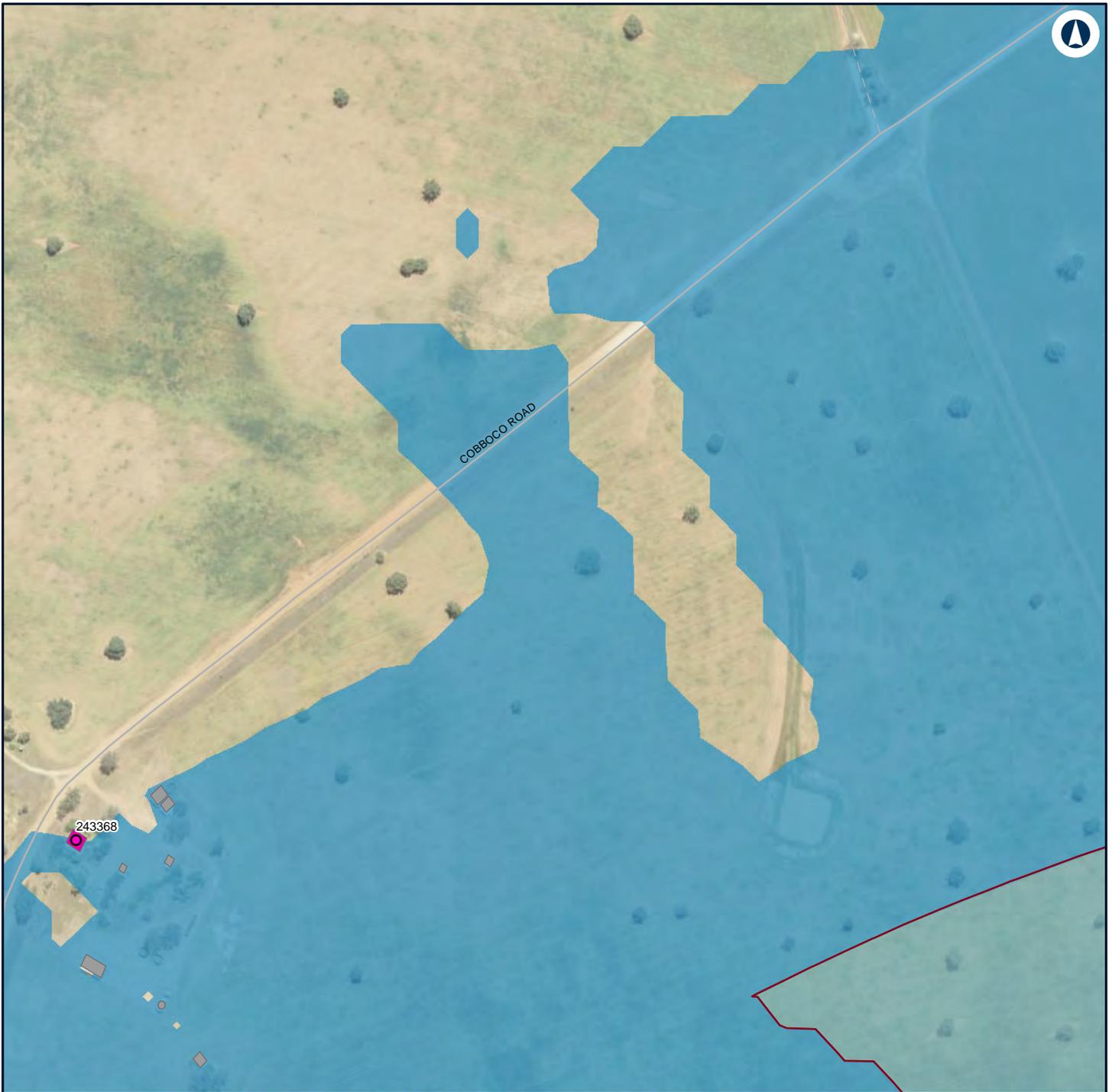
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L**
Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



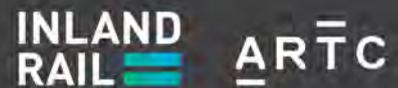
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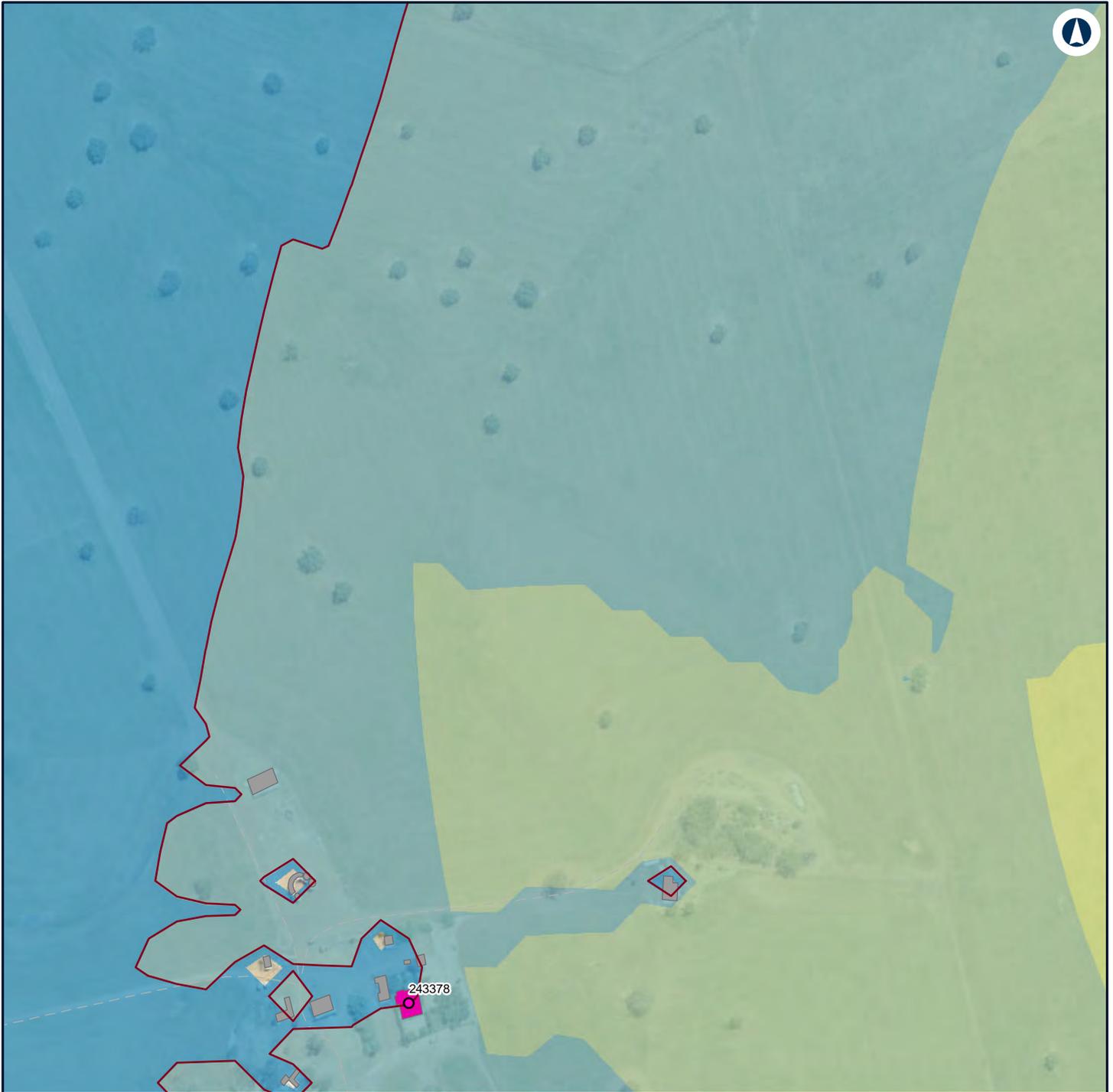
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LEGEND

- Structure type**
- 35 - 40
 - 40 - 45
 - Other
 - 45 - 50
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 88 of 304



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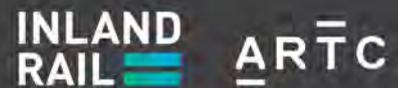
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Paper: A4

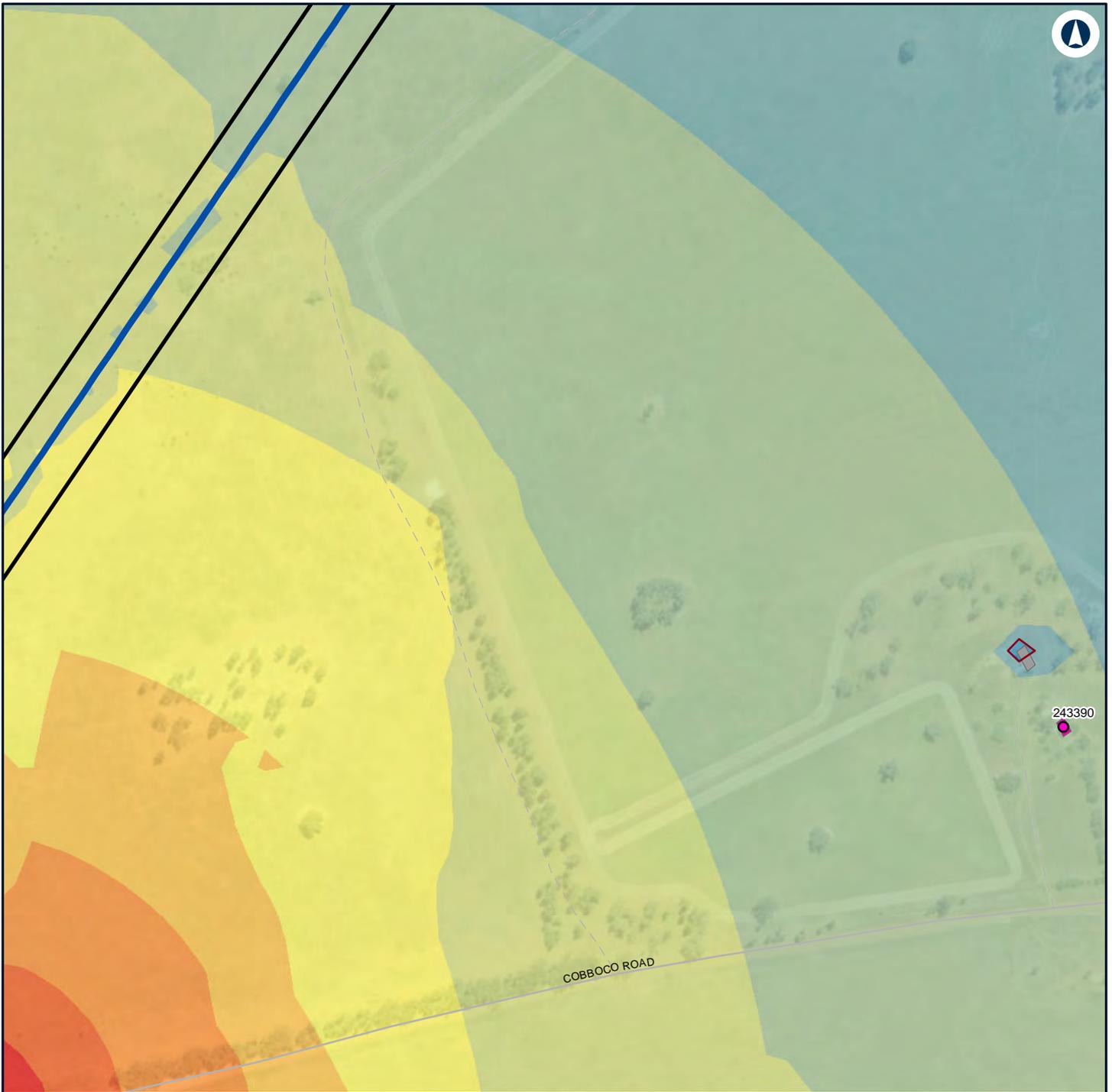
Author: GHD

Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|--|--|
| Noise level (dBA L
Aeq 15 minute) | 55 - 60 |
| 30 - 35 | 60 - 65 |
| 35 - 40 | 65 - 70 |
| 40 - 45 | 70 - 75 |
| 45 - 50 | |
| 50 - 55 | |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

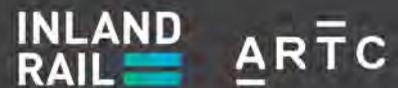
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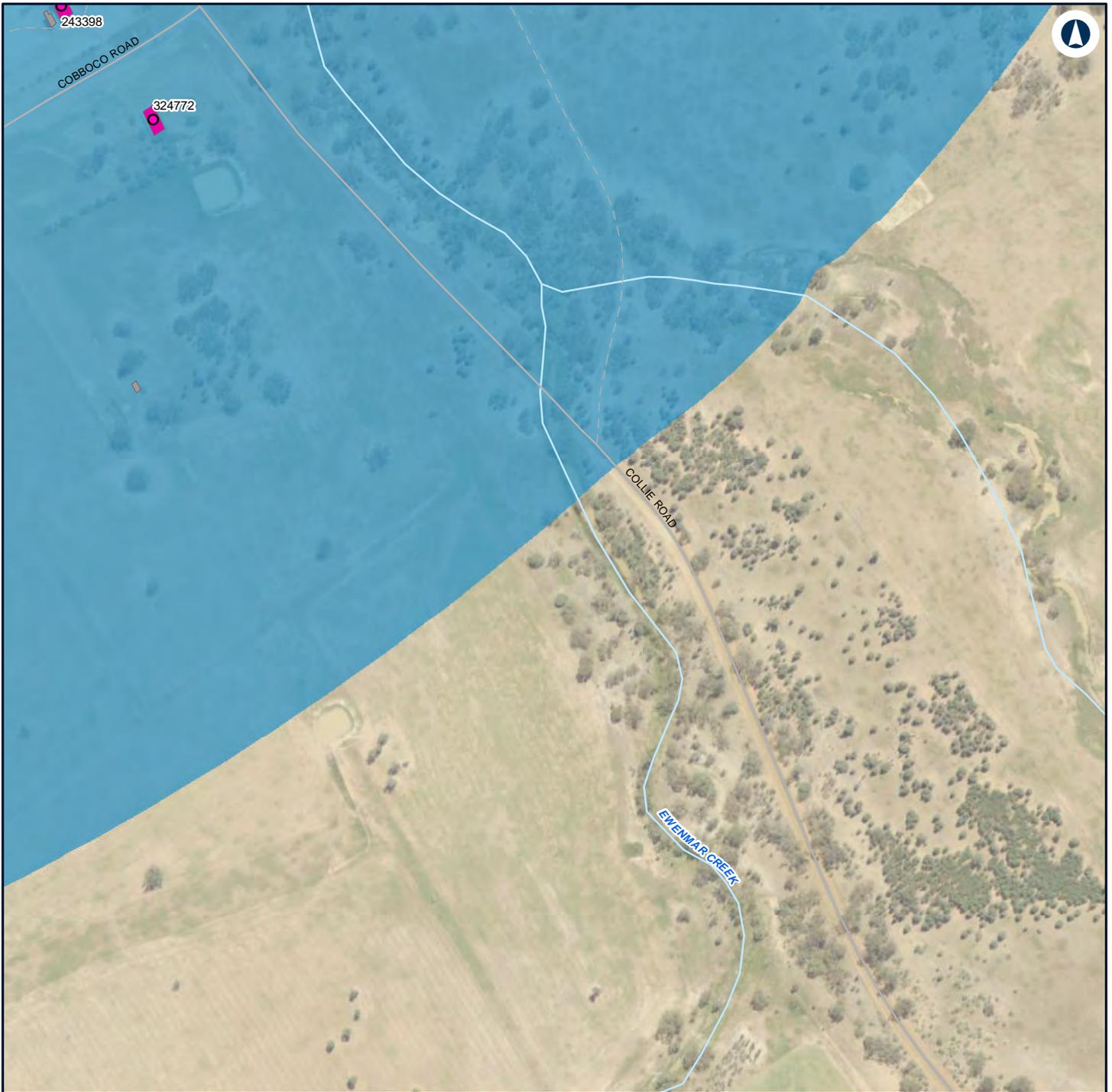
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L

- Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 90 of 304

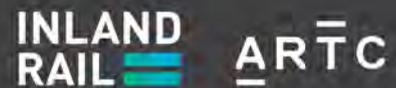


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LEGEND

Structure type	Noise level (dBA L Aeq 15 minute)
Community	30 - 35
Residential	35 - 40
Community	
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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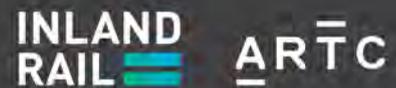
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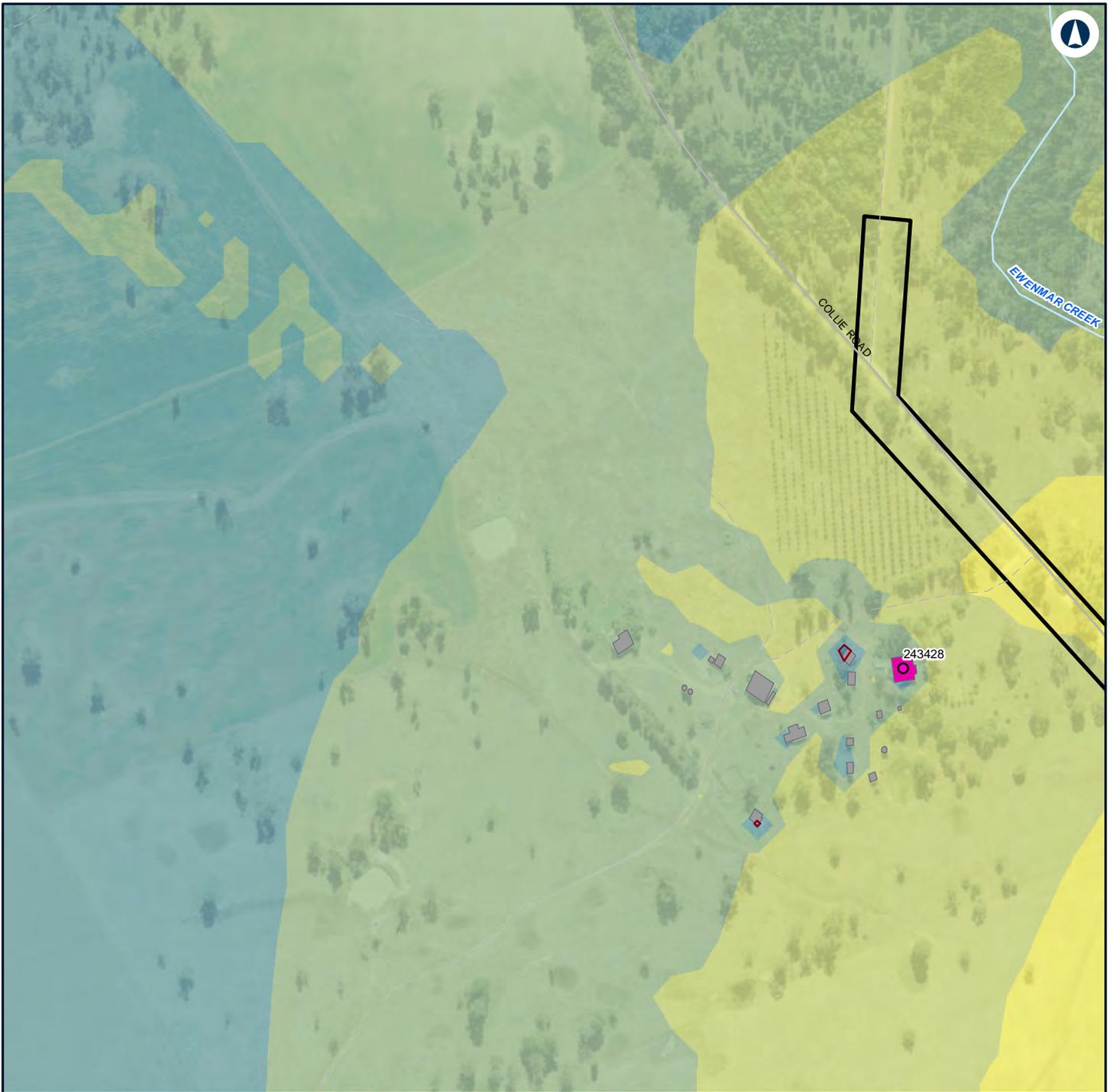
Author: GHD

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LEGEND

- | | |
|------------------------|--|
| Construction footprint | Noise level (dBA L Aeq 15 minute) |
| Structure type | 30 - 35 |
| Residential | 35 - 40 |
| Other | 40 - 45 |
| Residential | 45 - 50 |
| | 50 - 55 |



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



Coordinate System: GDA 1994 MGA Zone 55

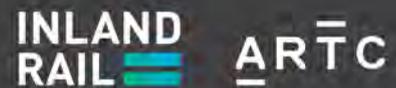
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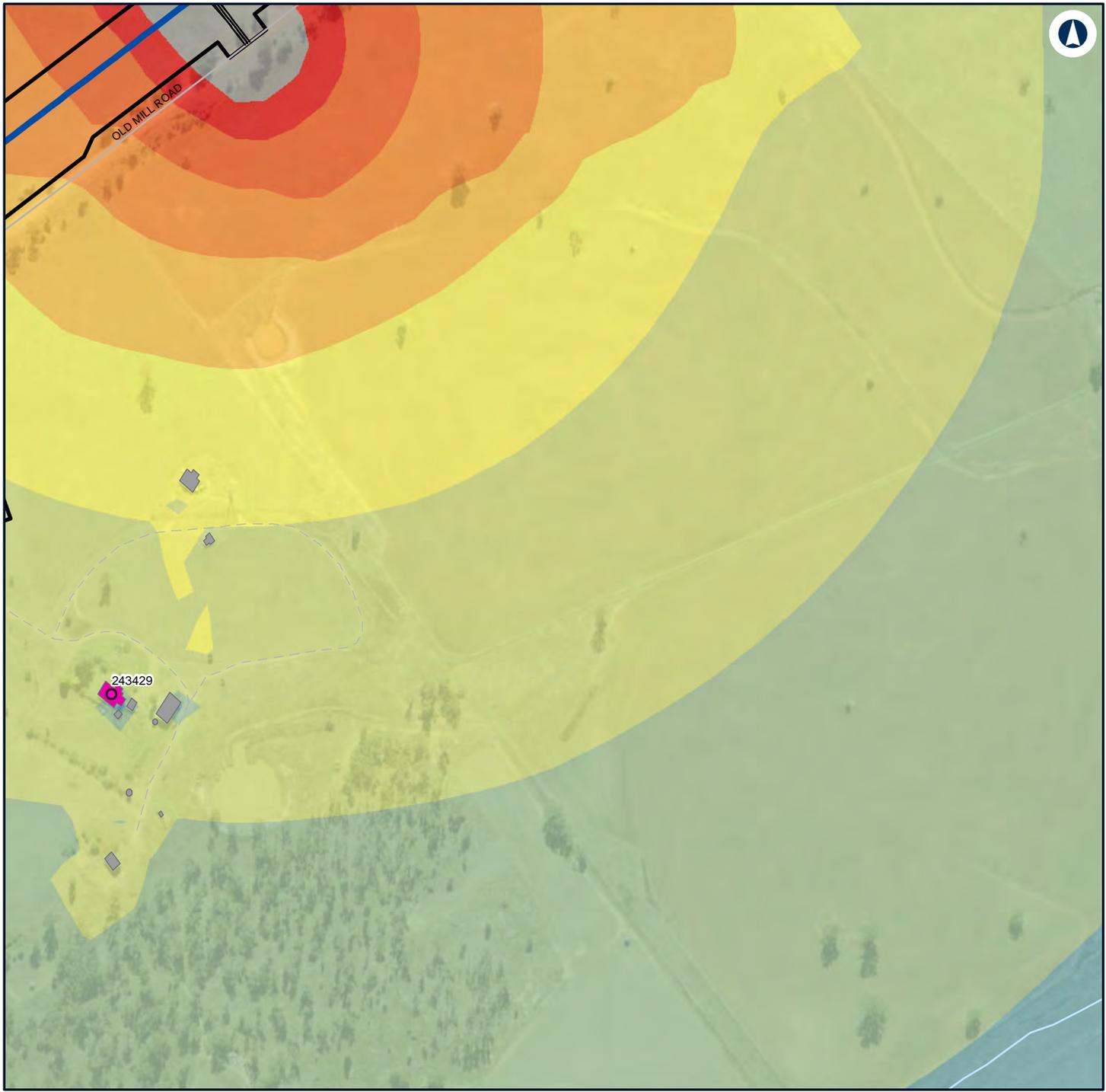
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LEGEND

- Alignment
- Road design string
- Construction footprint
- Structure type**
- Residential
- Other
- Residential
- Noise level (dBA L Aeq 15 minute)**
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- > 75



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

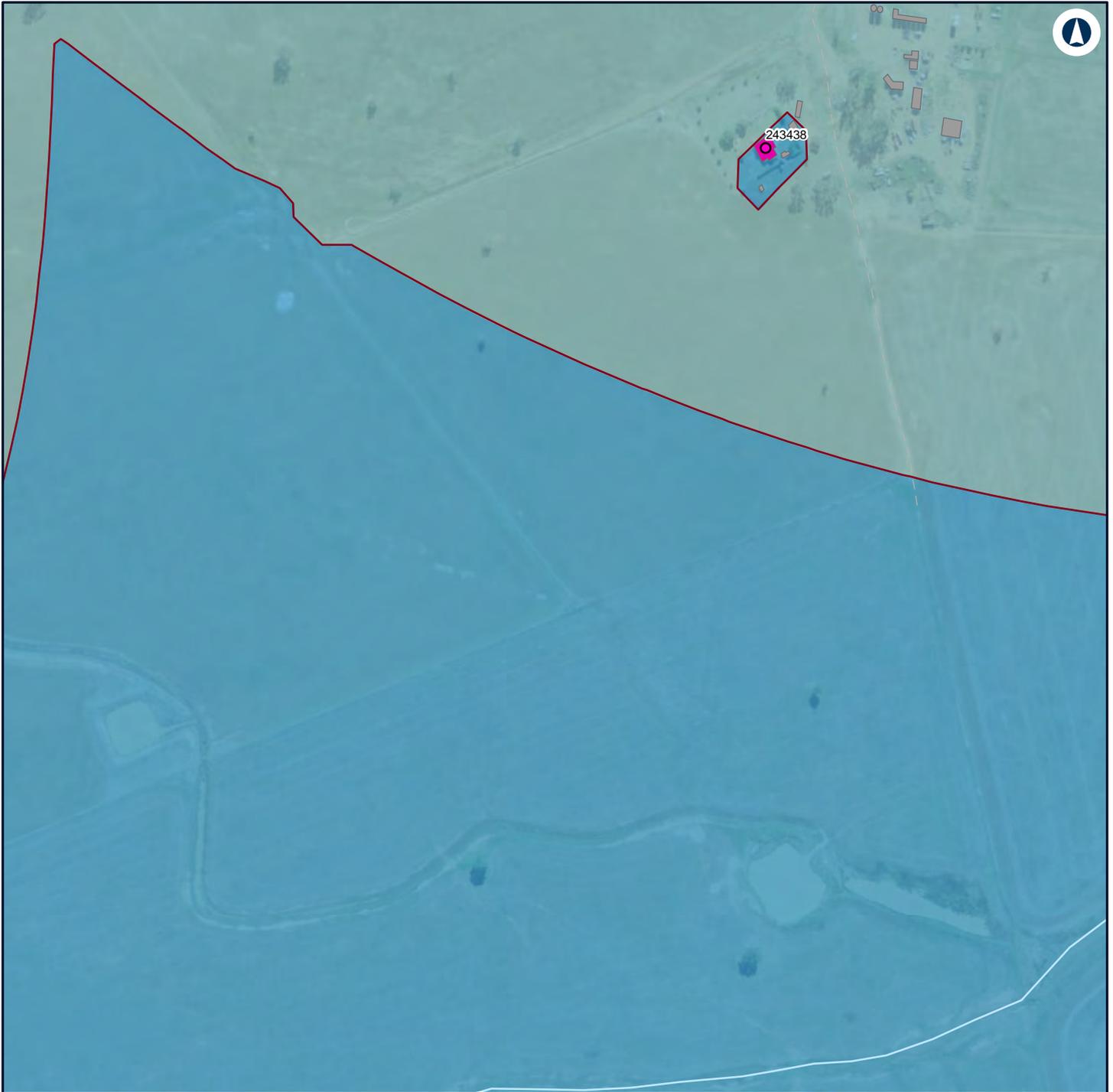
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



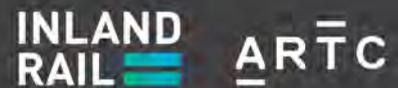
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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



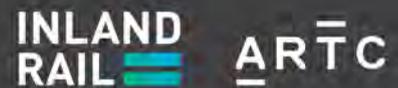
Coordinate System: GDA 1994 MGA Zone 55

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 Author: GHD Scale: 1:5,000

Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD



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LEGEND

Structure type

- Residential
- Other
- Residential

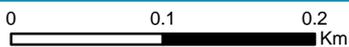
Noise level (dBA L

- Aeq 15 minute)
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

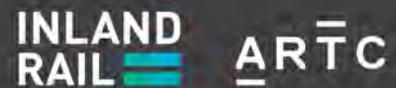


Coordinate System: GDA 1994 MGA Zone 55

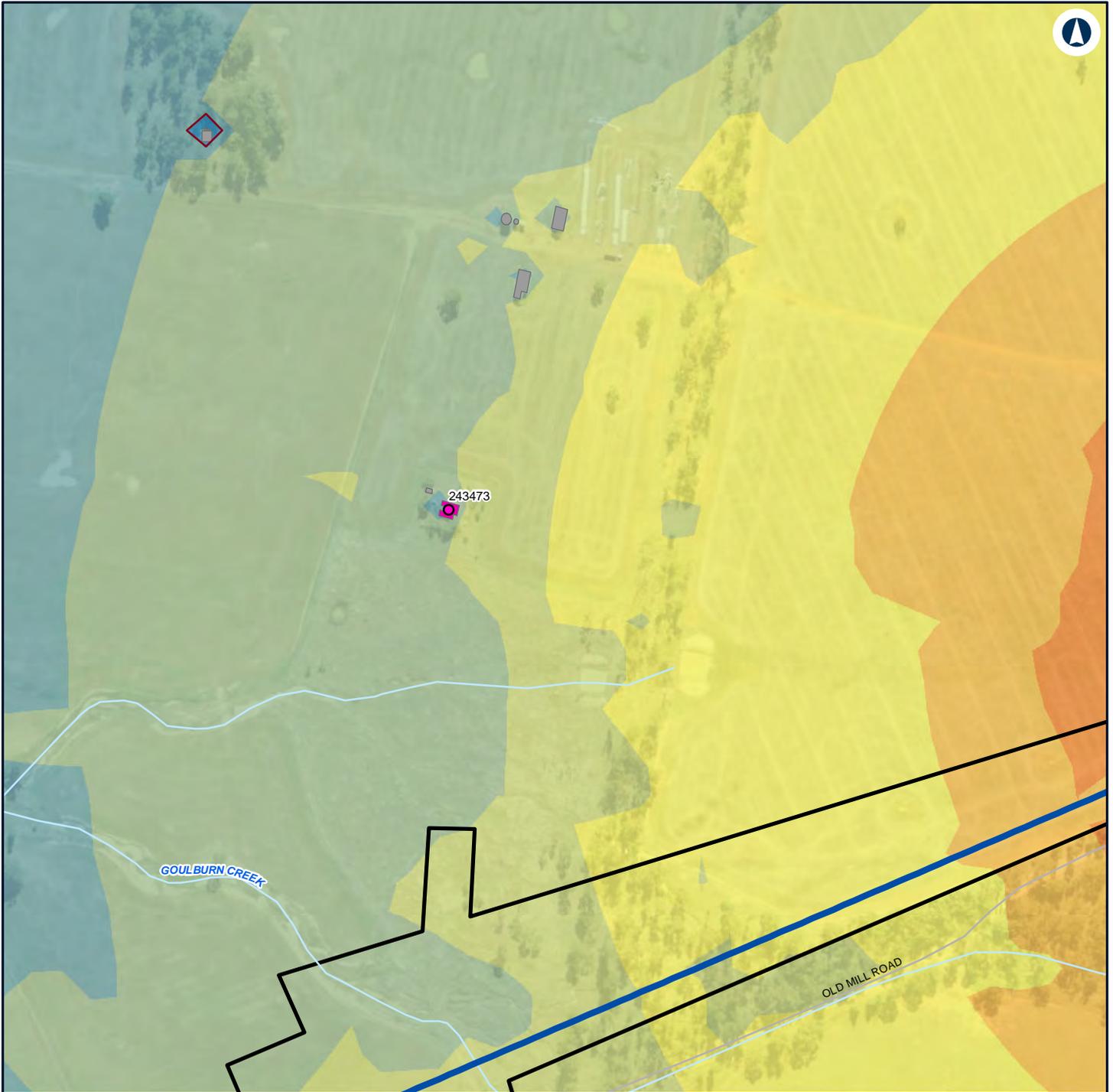
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LEGEND

- Alignment
 - Construction footprint
 - Structure type**
 - Residential
 - Other
 - Residential
- | | |
|---|--|
| Noise level (dBA L | 55 - 60 |
| Aeq 15 minute) | 60 - 65 |
| 30 - 35 | |
| 35 - 40 | |
| 40 - 45 | |
| 45 - 50 | |
| 50 - 55 | |



0 0.1 0.2 Km

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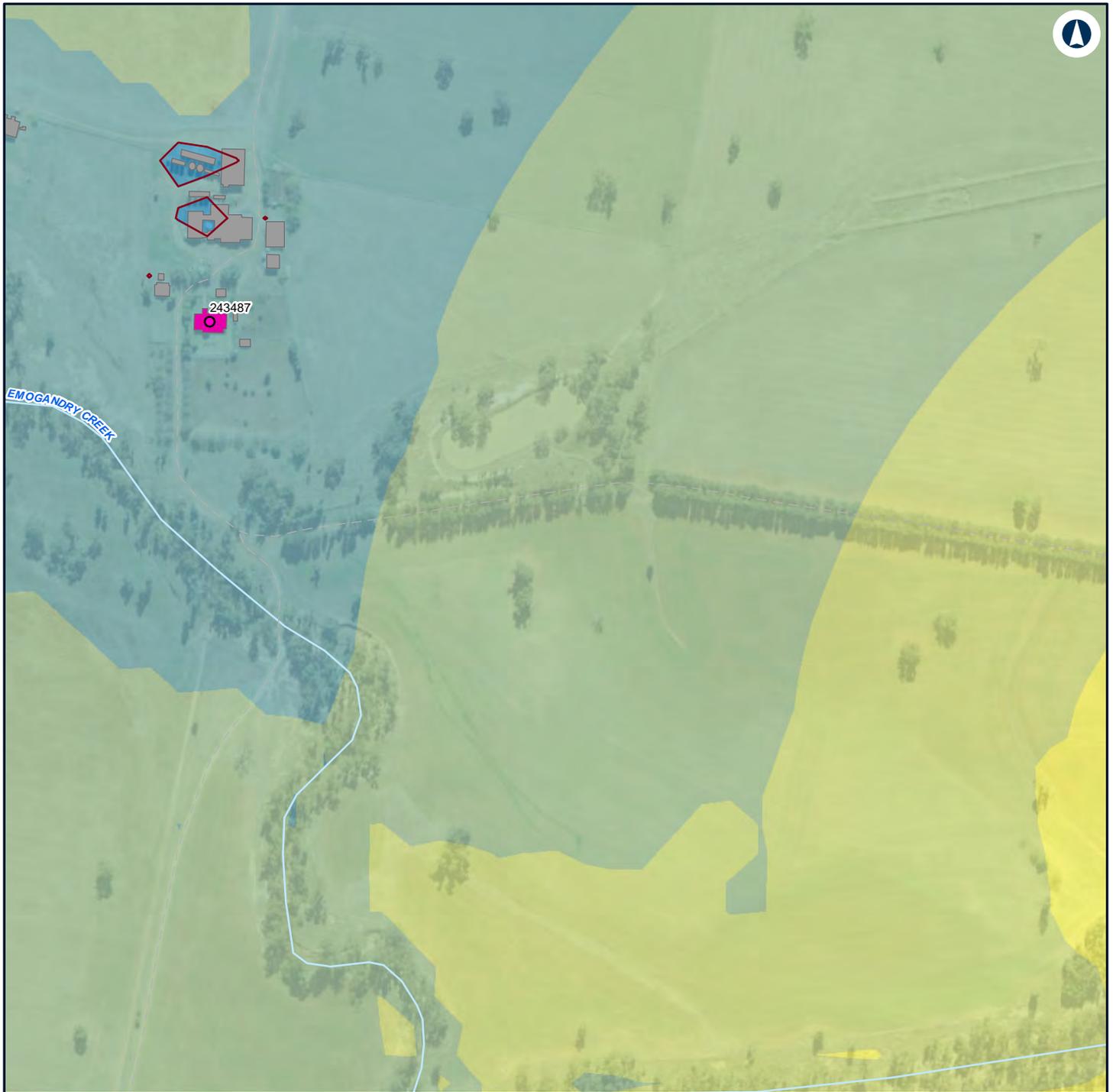
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INLAND RAIL

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LEGEND

Structure type		35 - 40
● Residential		40 - 45
■ Other		45 - 50
■ Residential		50 - 55

Noise level (dBA L

Aeq 15 minute)
 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

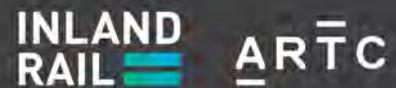


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LEGEND

Structure type		35 - 40
● Residential	■	40 - 45
■ Other	■	45 - 50
■ Residential	■	50 - 55
Noise level (dBA L		55 - 60
Aeq 15 minute)		60 - 65
■		30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks



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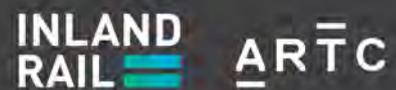
Date: 16/07/2020

Paper: A4

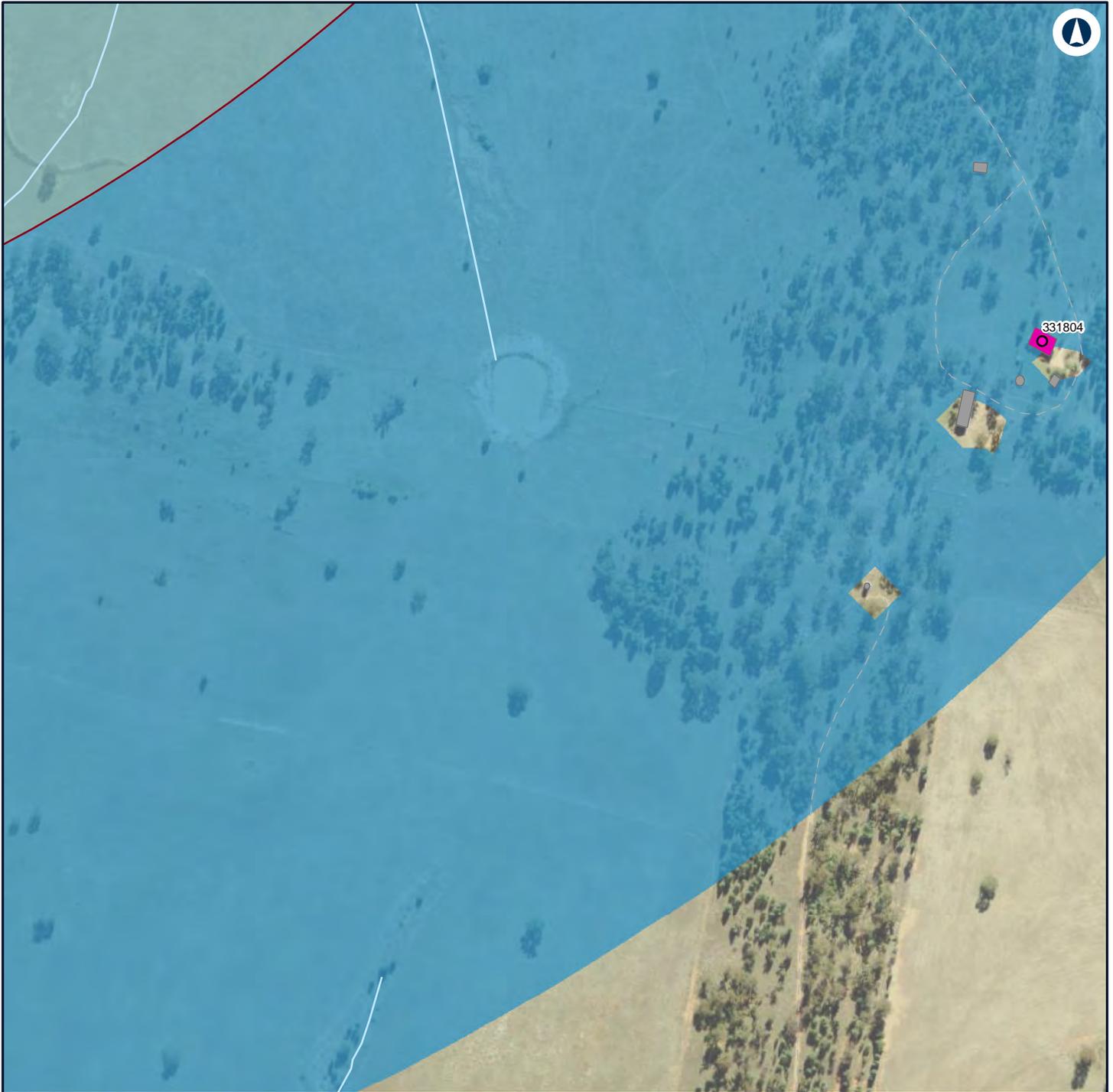
Author: GHD

Scale: 1:5,000

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LEGEND

- Structure type**
- 35 - 40
 - Residential
 - Other
 - Residential
- Noise level (dBA L
Aeq 15 minute)**
- 30 - 35



0 0.1 0.2 Km

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