

TECHNICAL REPORT

INLAND
RAIL 

8

Noise and vibration assessment – construction and other operations

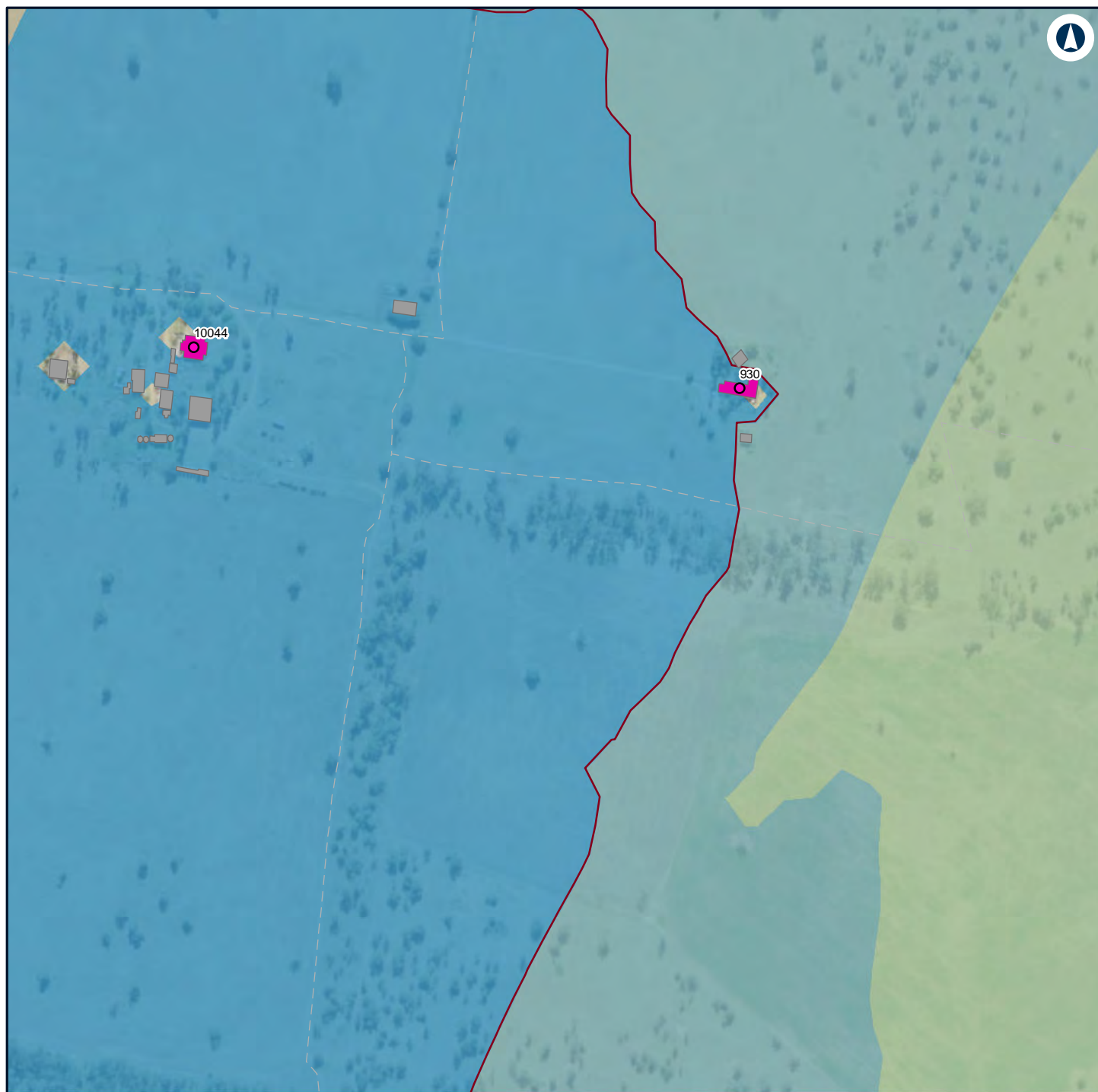
PART 3 OF 7

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

Residential

Other

Residential

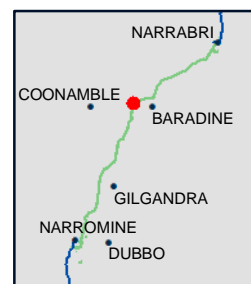
Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

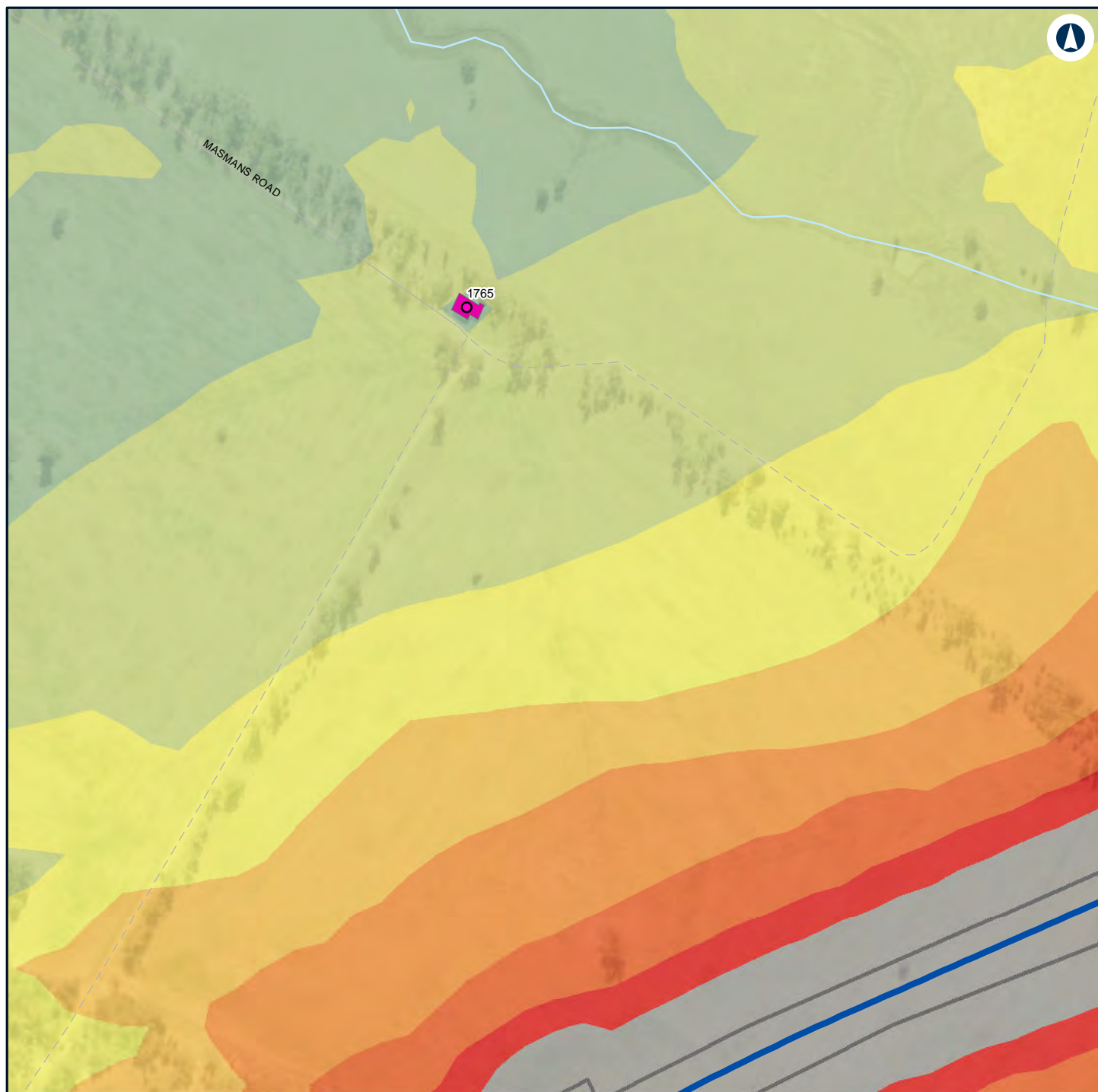
Author: GHD

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
			> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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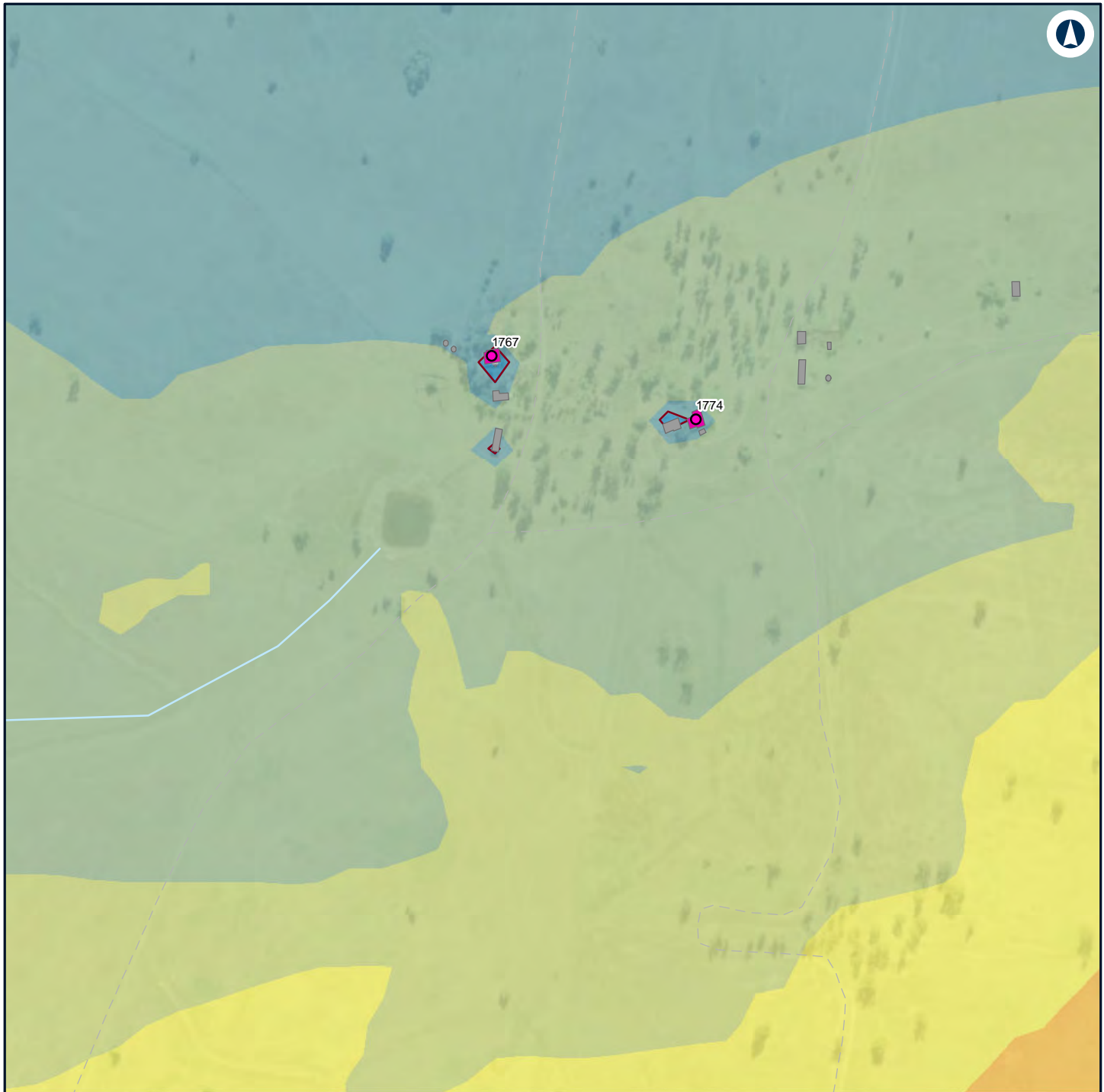
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LEGEND

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

■ 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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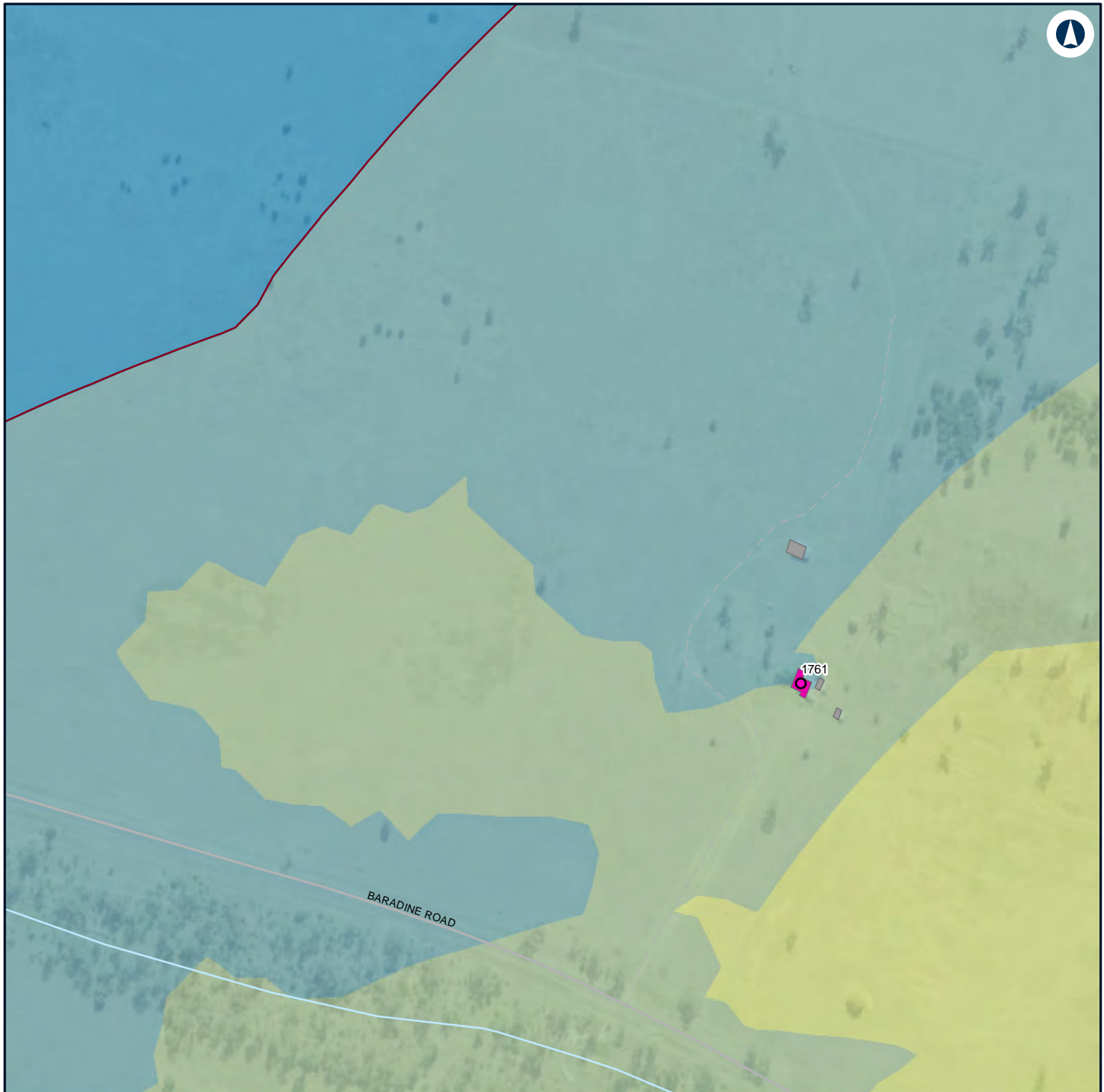
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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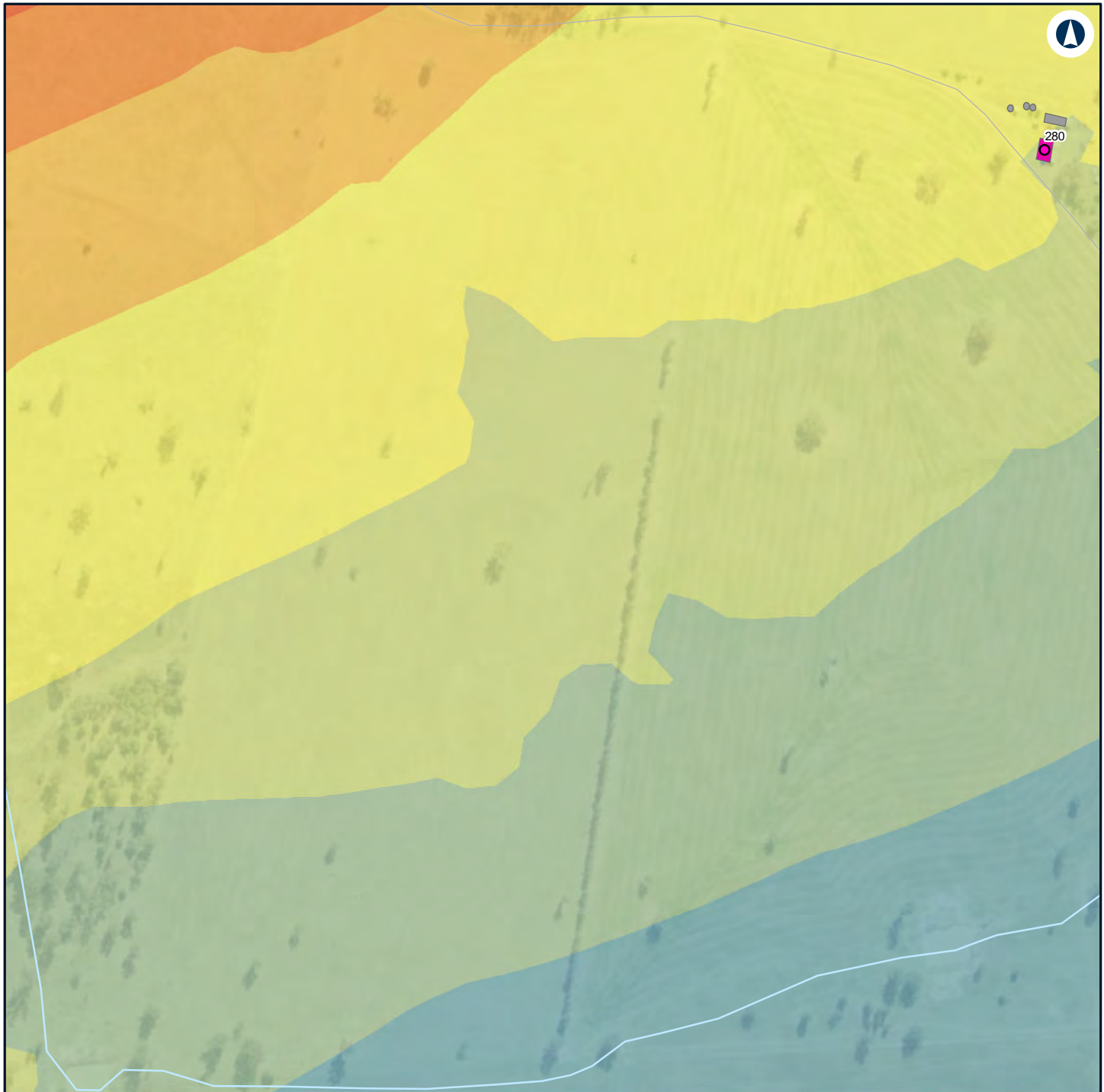
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LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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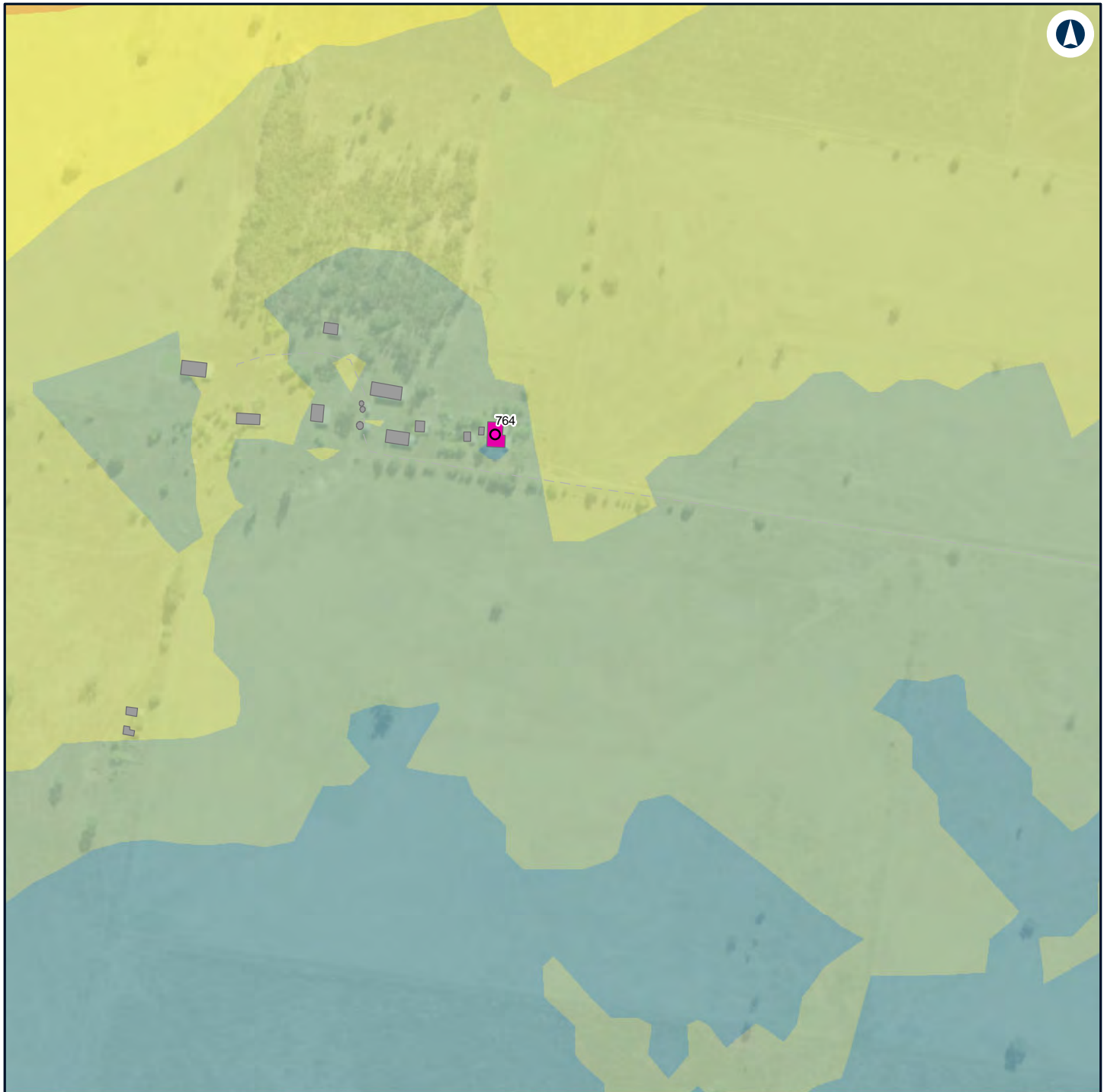
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LEGEND

Structure type

- Residential
- Other
- Residential

- 45 - 50
- 50 - 55
- 55 - 60

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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0 0.1 0.2
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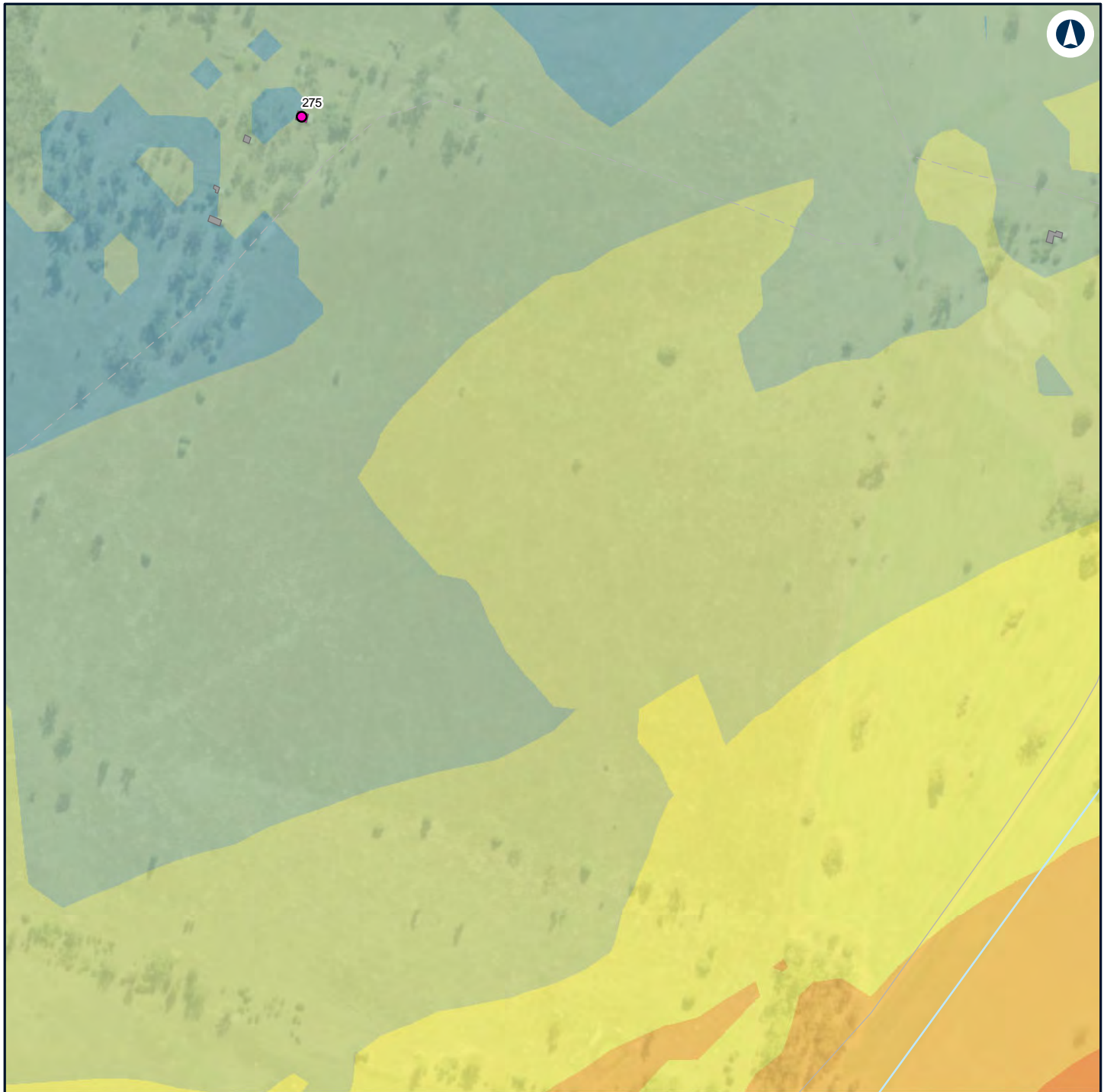
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LEGEND

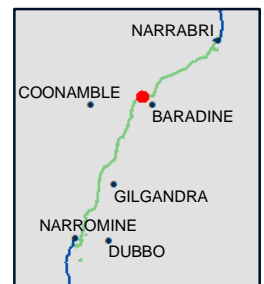
Structure type

- Residential
- Other
- Residential

- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65

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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0 0.1 0.2
Km

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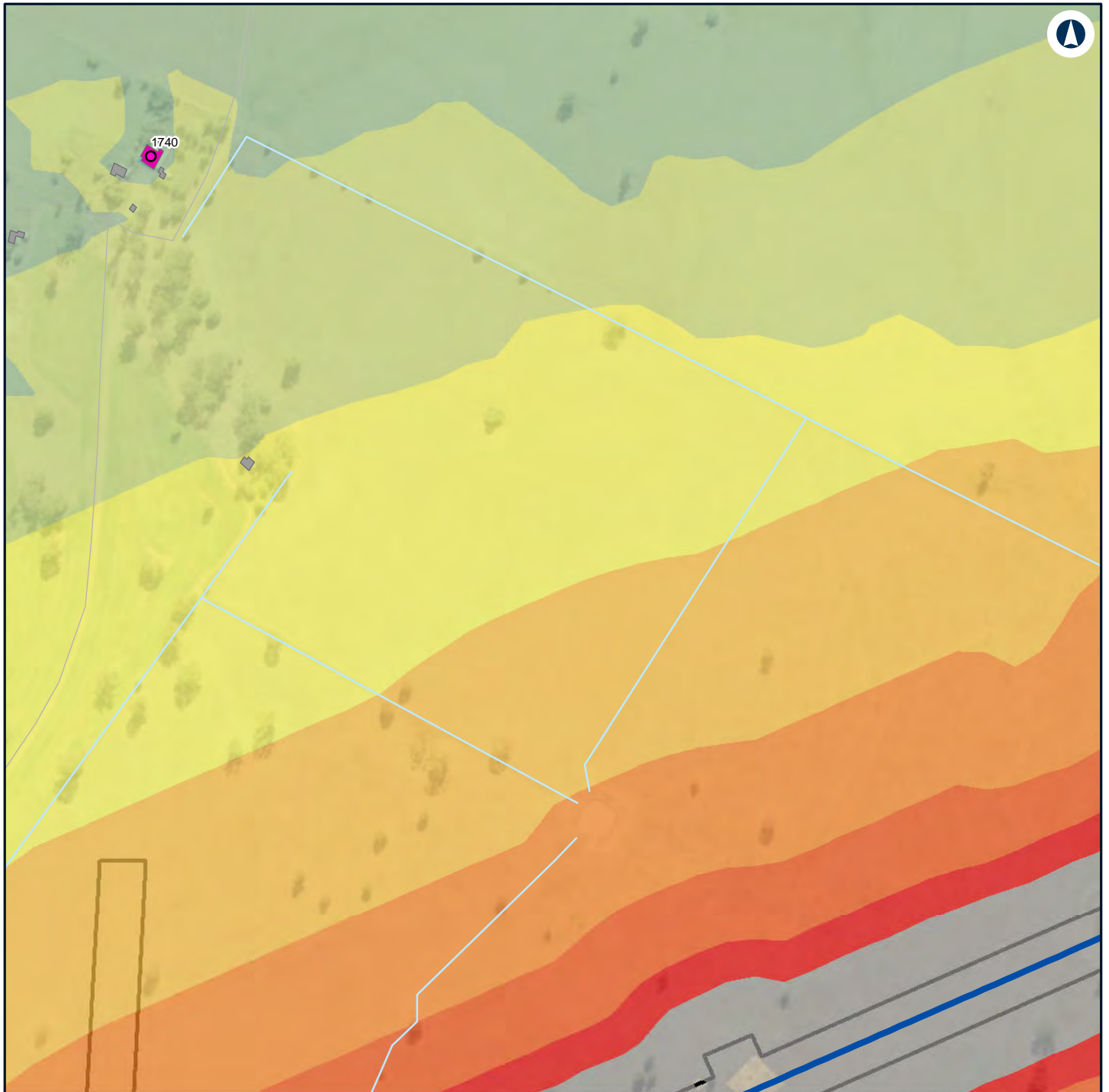
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LEGEND

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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0 0.1 0.2
Km

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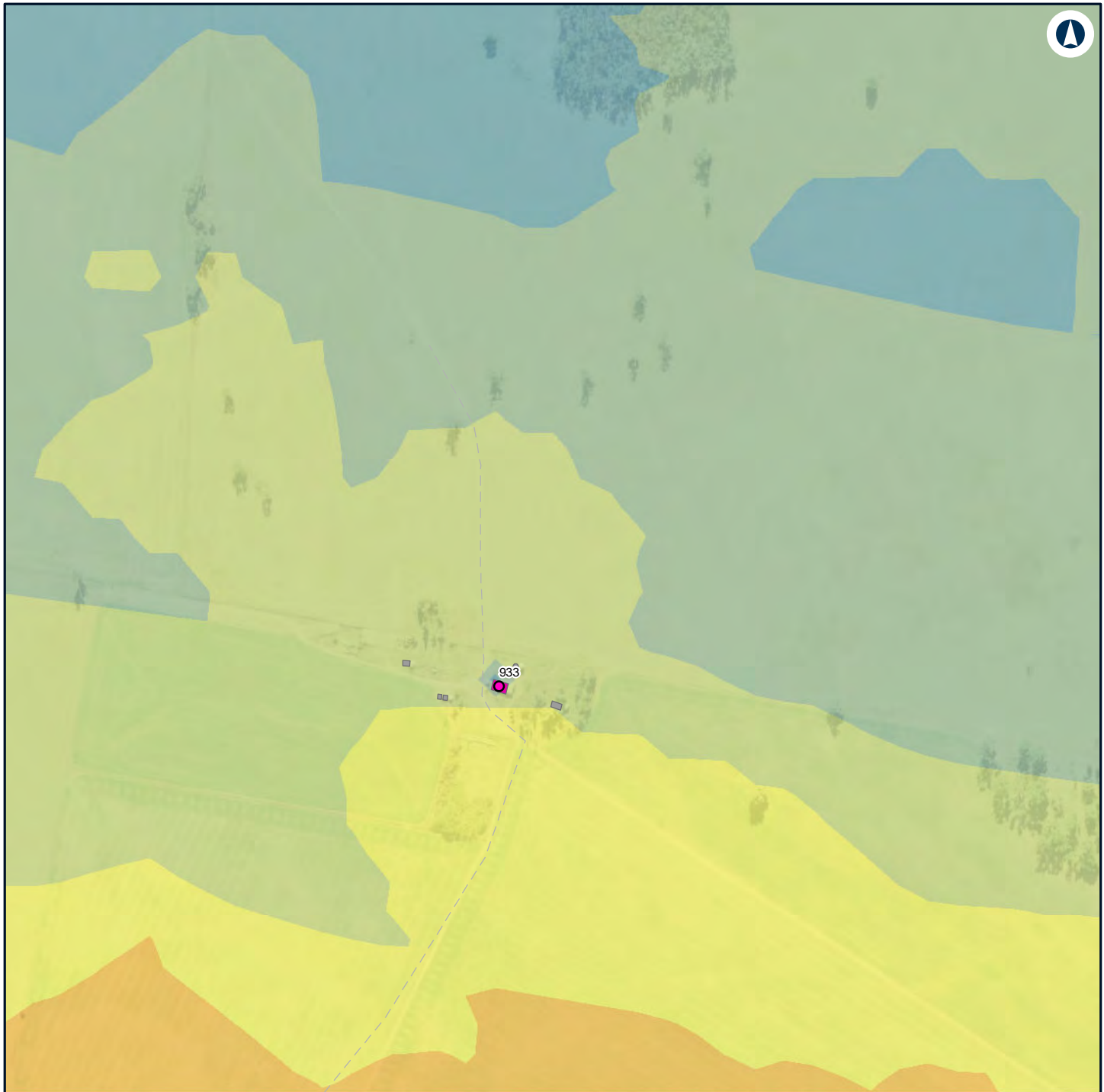
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LEGEND

Structure type

- Residential
- Other
- Residential

- 45 - 50
- 50 - 55
- 55 - 60

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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0 0.1 0.2
Km

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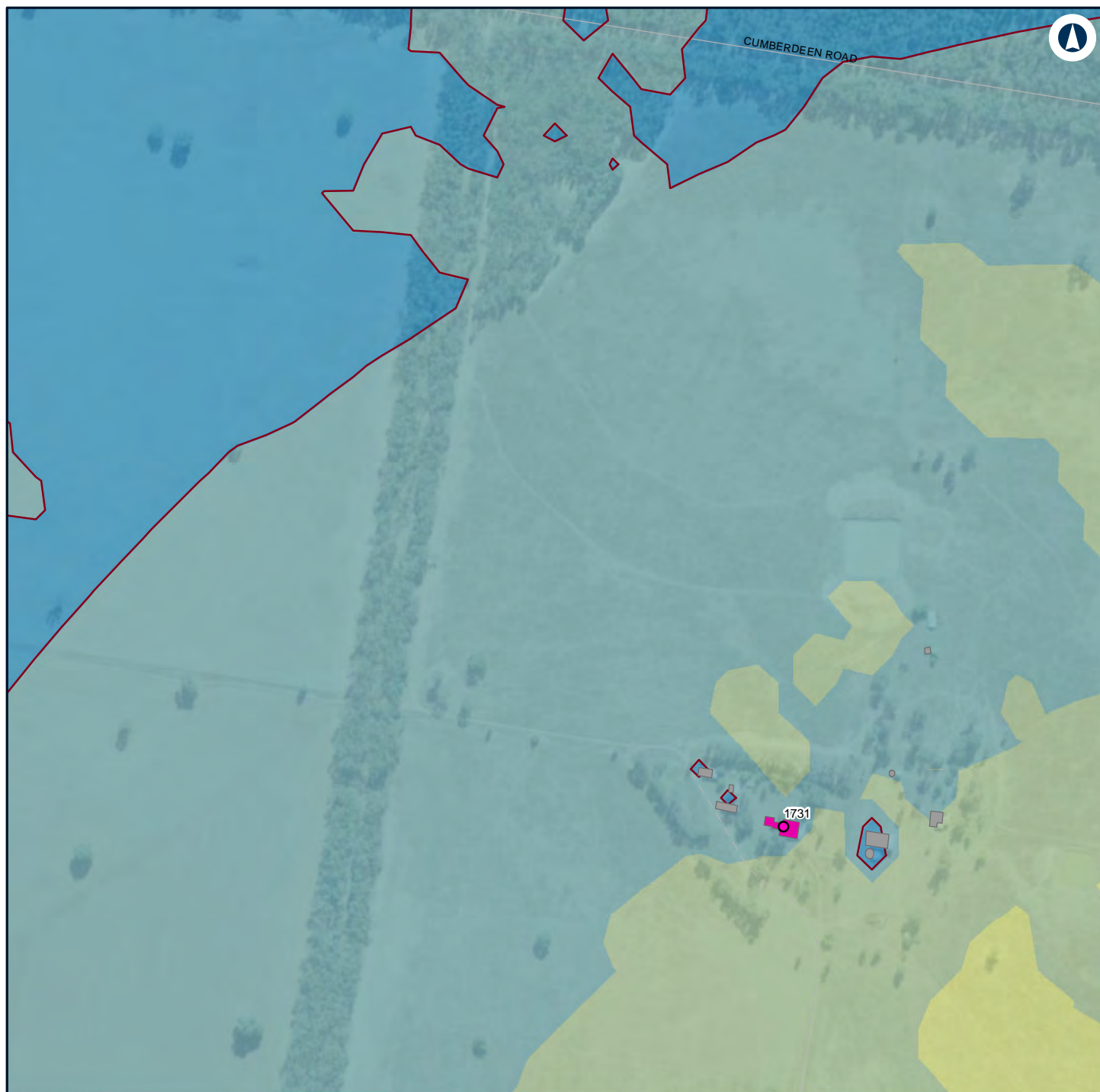
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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

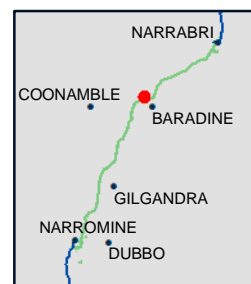
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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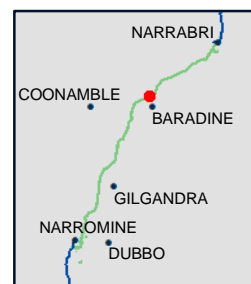
LEGEND

Structure type

- Residential
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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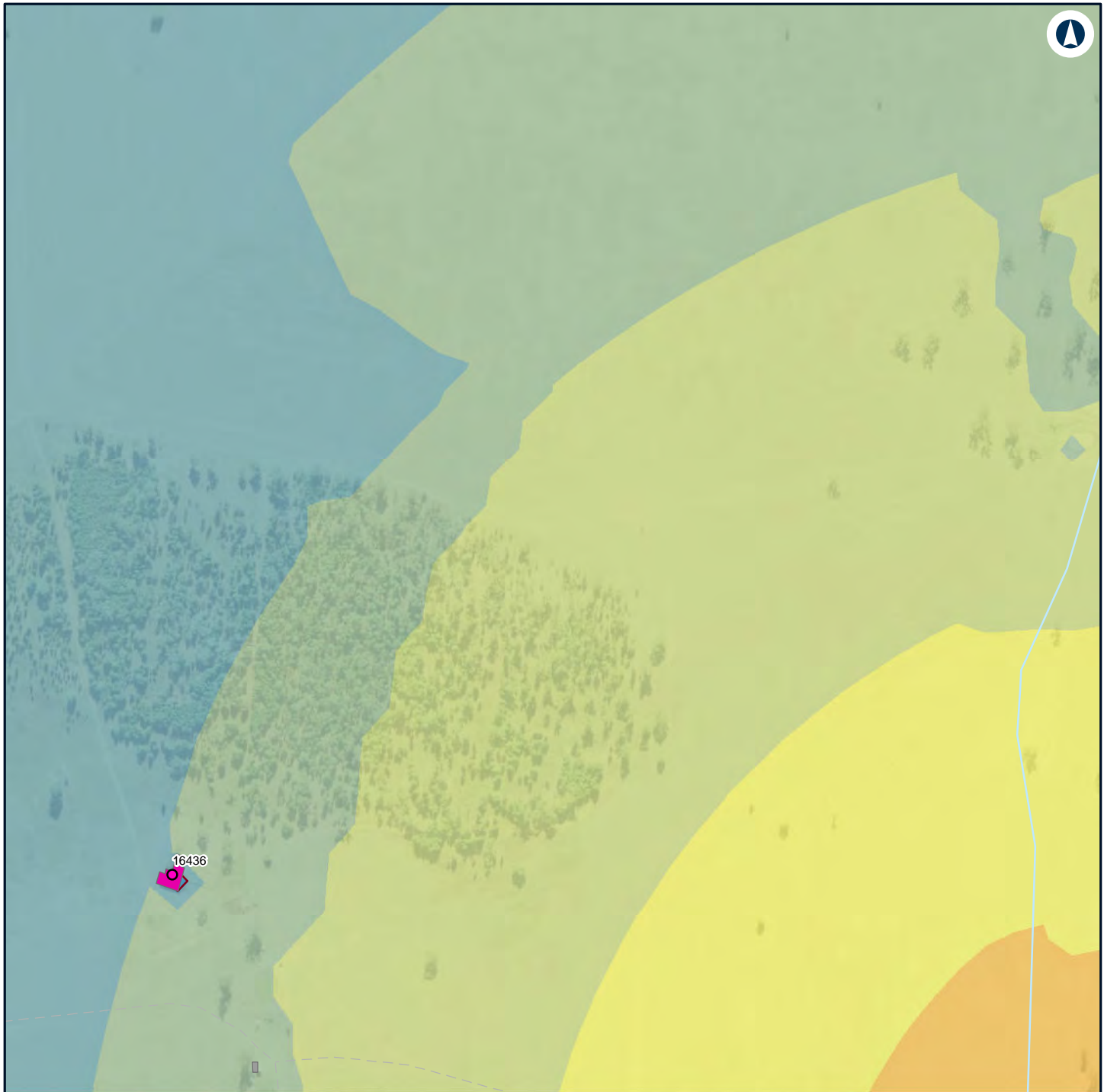
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

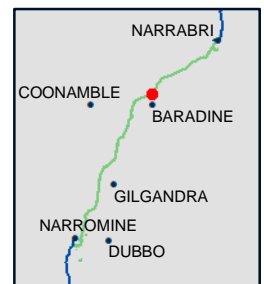
■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55

■ 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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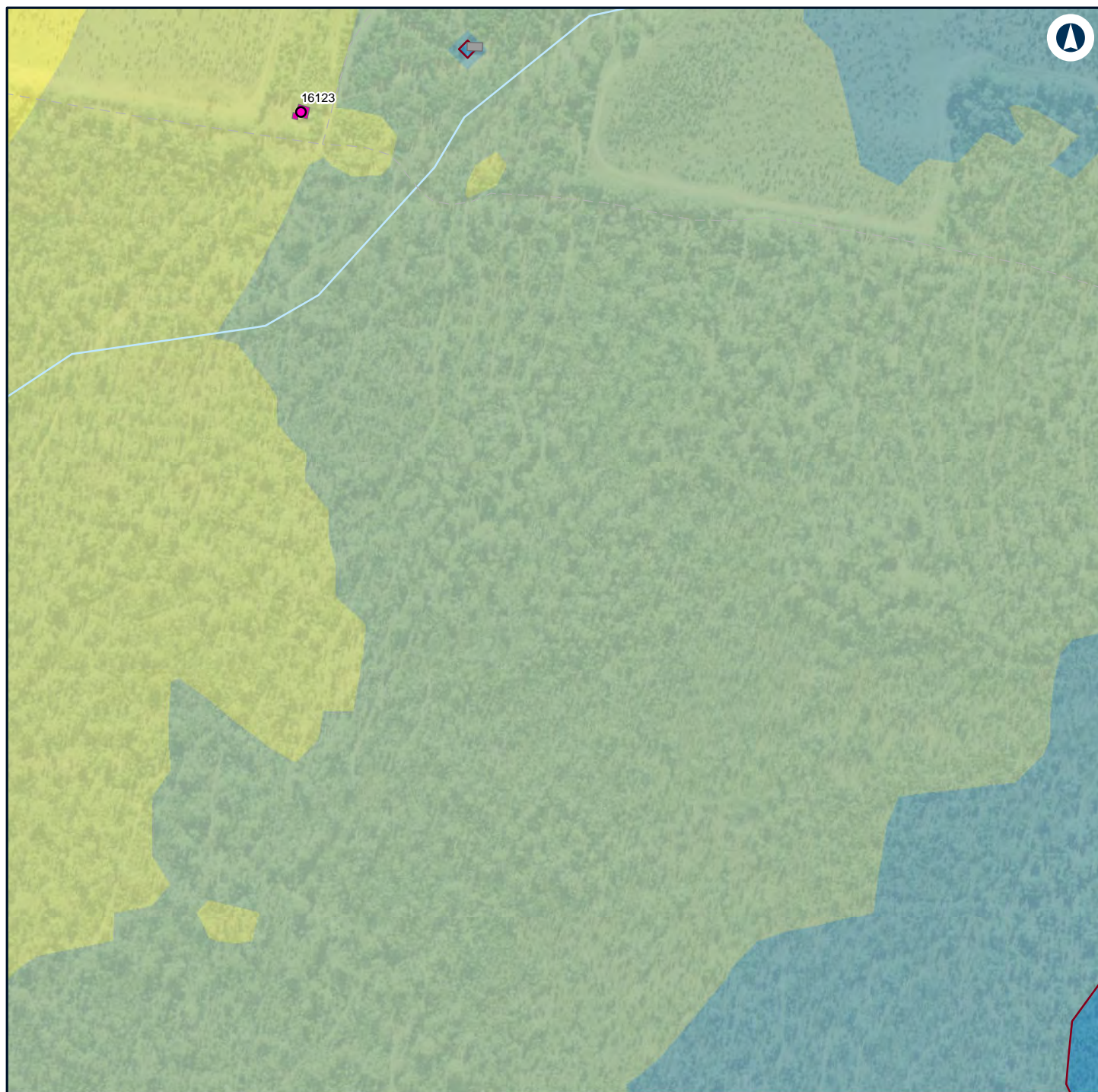
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

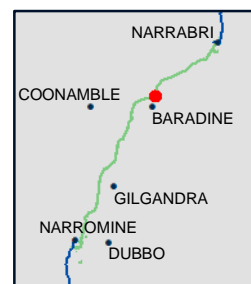
■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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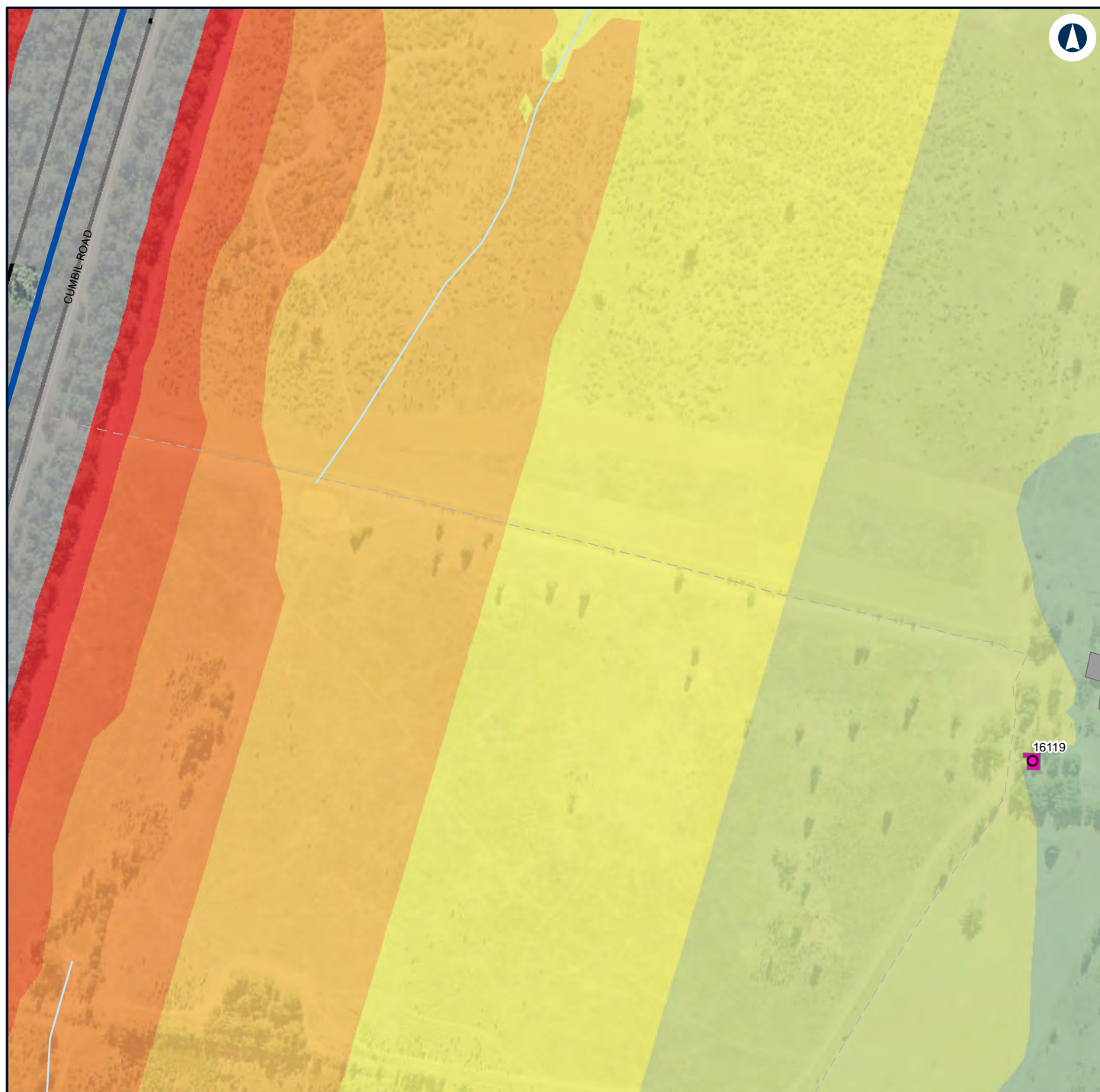
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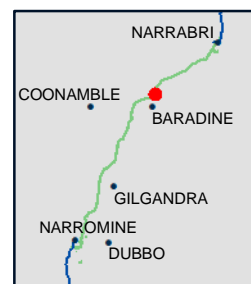
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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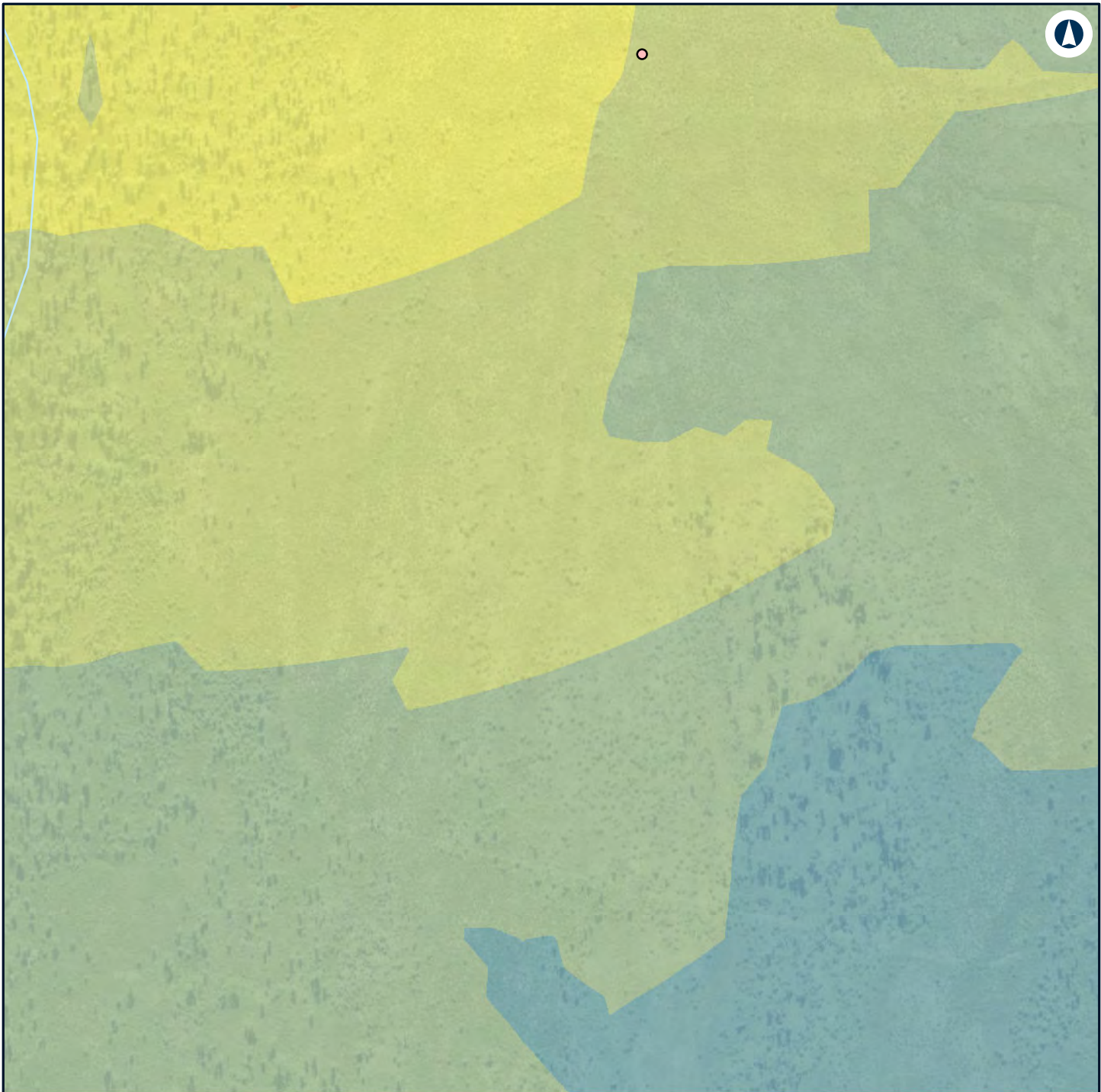
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LEGEND

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



NARROMINE TO NARRABRI

0 0.1 0.2 Km

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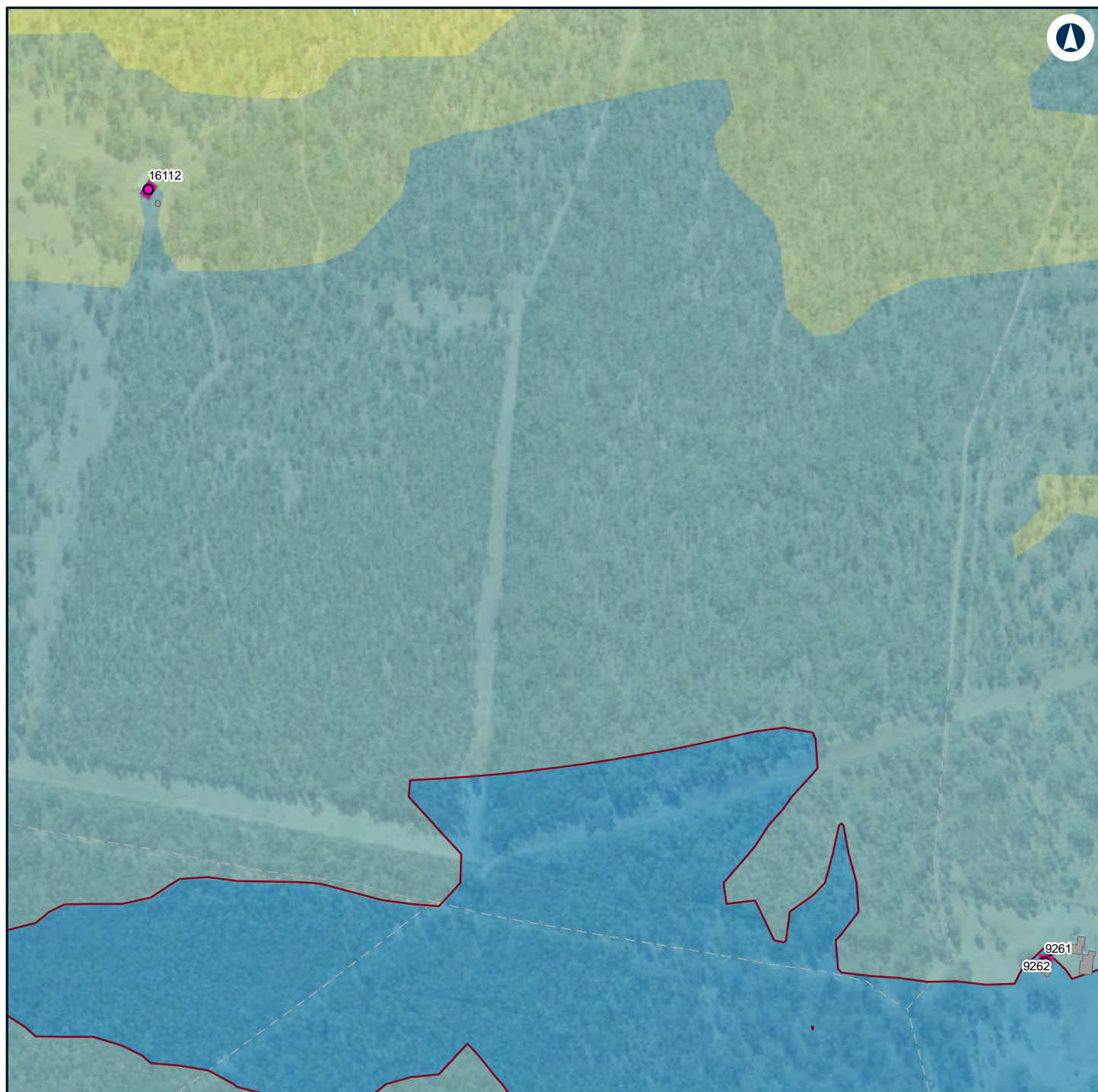
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Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

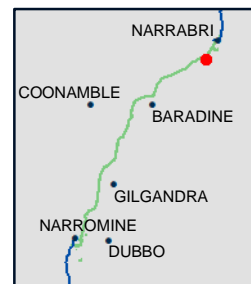
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
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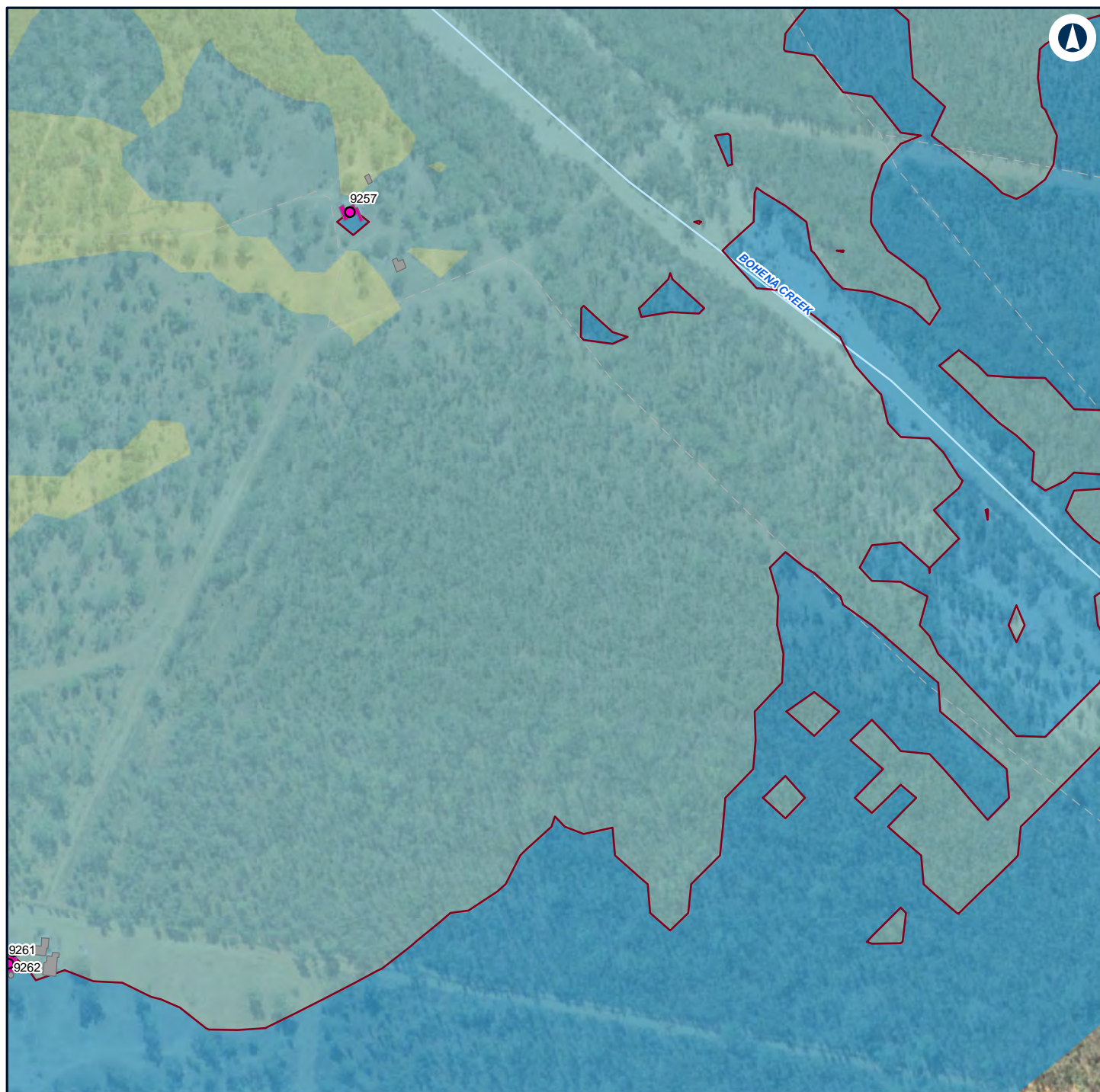
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LEGEND

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

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0 0.1 0.2
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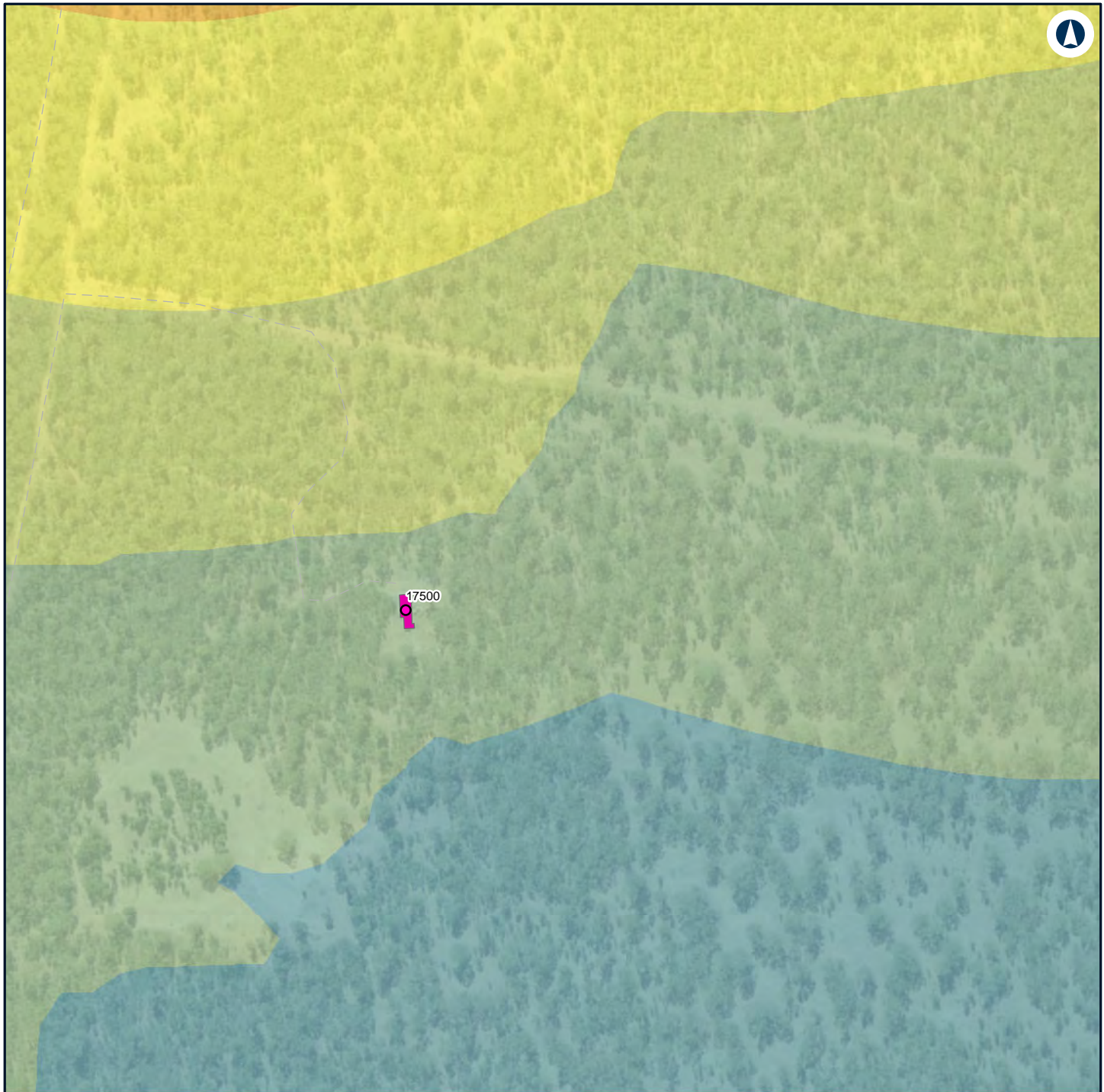
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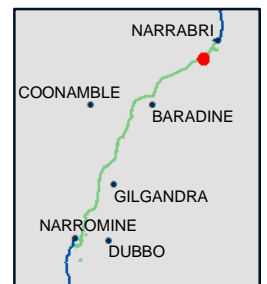
LEGEND

Structure type

- Residential
- Residential

Noise level (dBA L_{Aeq} 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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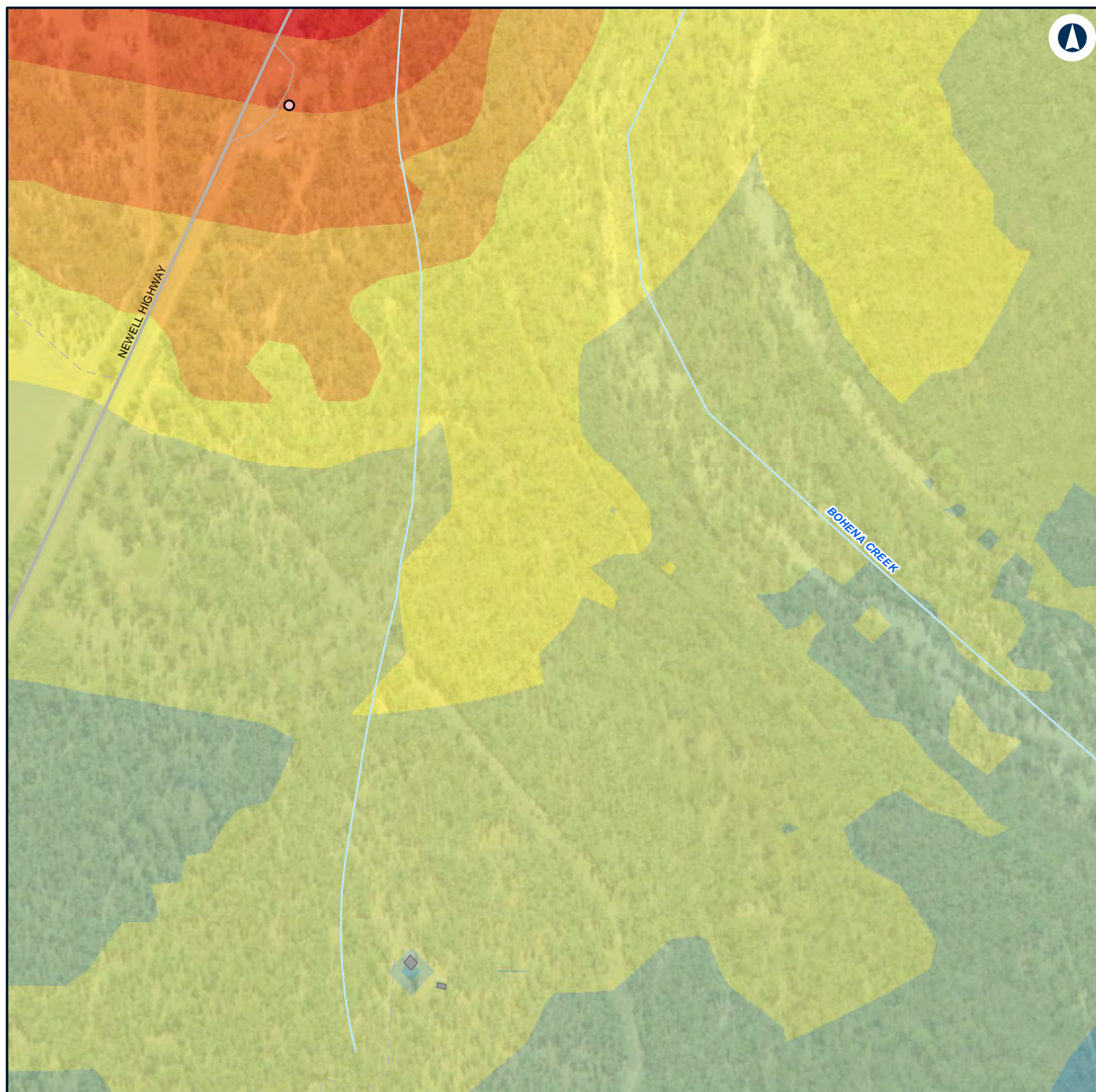
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INLAND RAIL **ARTC**

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LEGEND

Structure type

○ Passive recreation

■ Other

Noise level (dBA L_{Aeq} 15 minute)

35 - 40

40 - 45

45 - 50

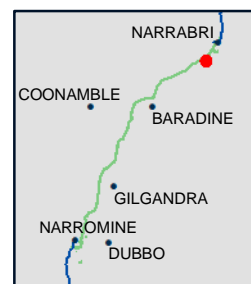
50 - 55

55 - 60

60 - 65

65 - 70

70 - 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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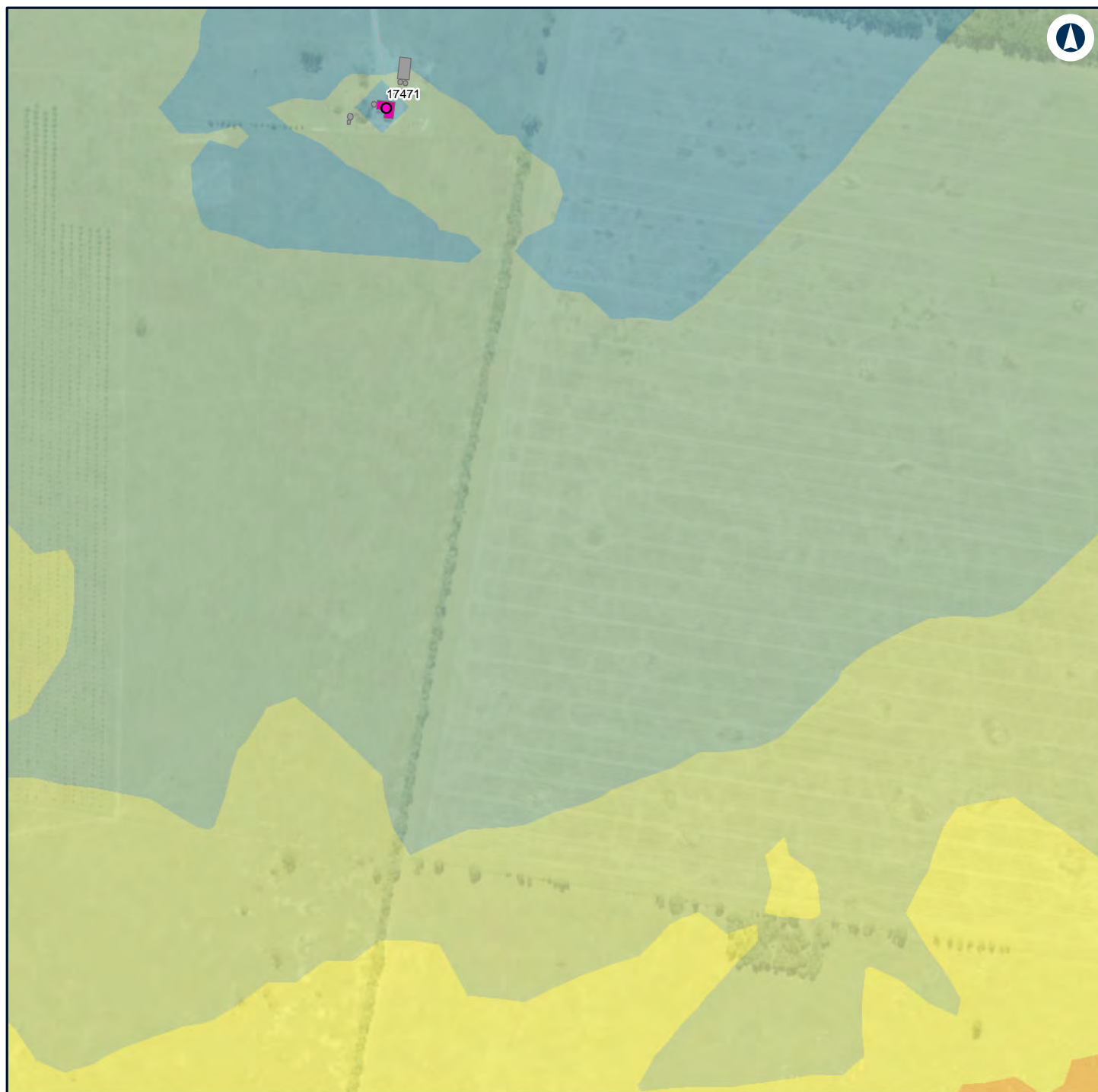
Author: GHD

Scale: 1:5,000

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

**INLAND
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LEGEND

Structure type

Residential

Other

Residential

Noise level (dBA L_{Aeq} 15 minute)

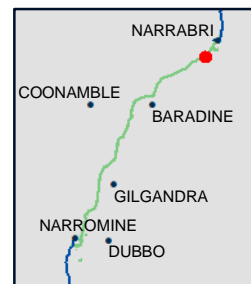
35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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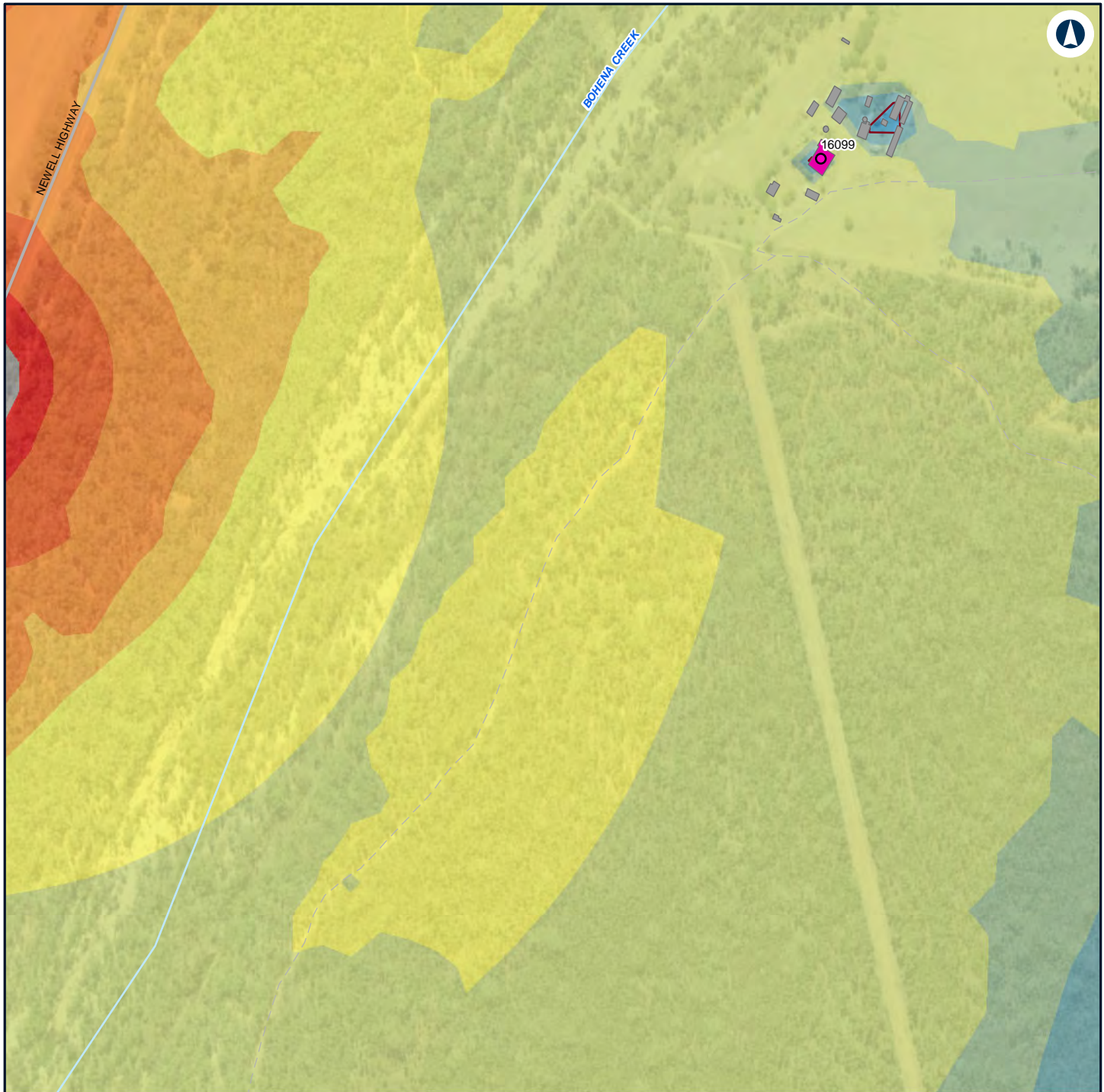
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55

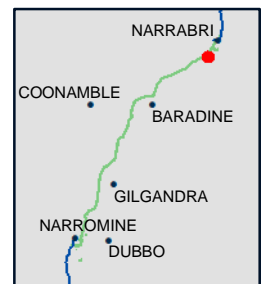
■ 55 - 60

■ 60 - 65

■ 65 - 70

■ 70 - 75

■ > 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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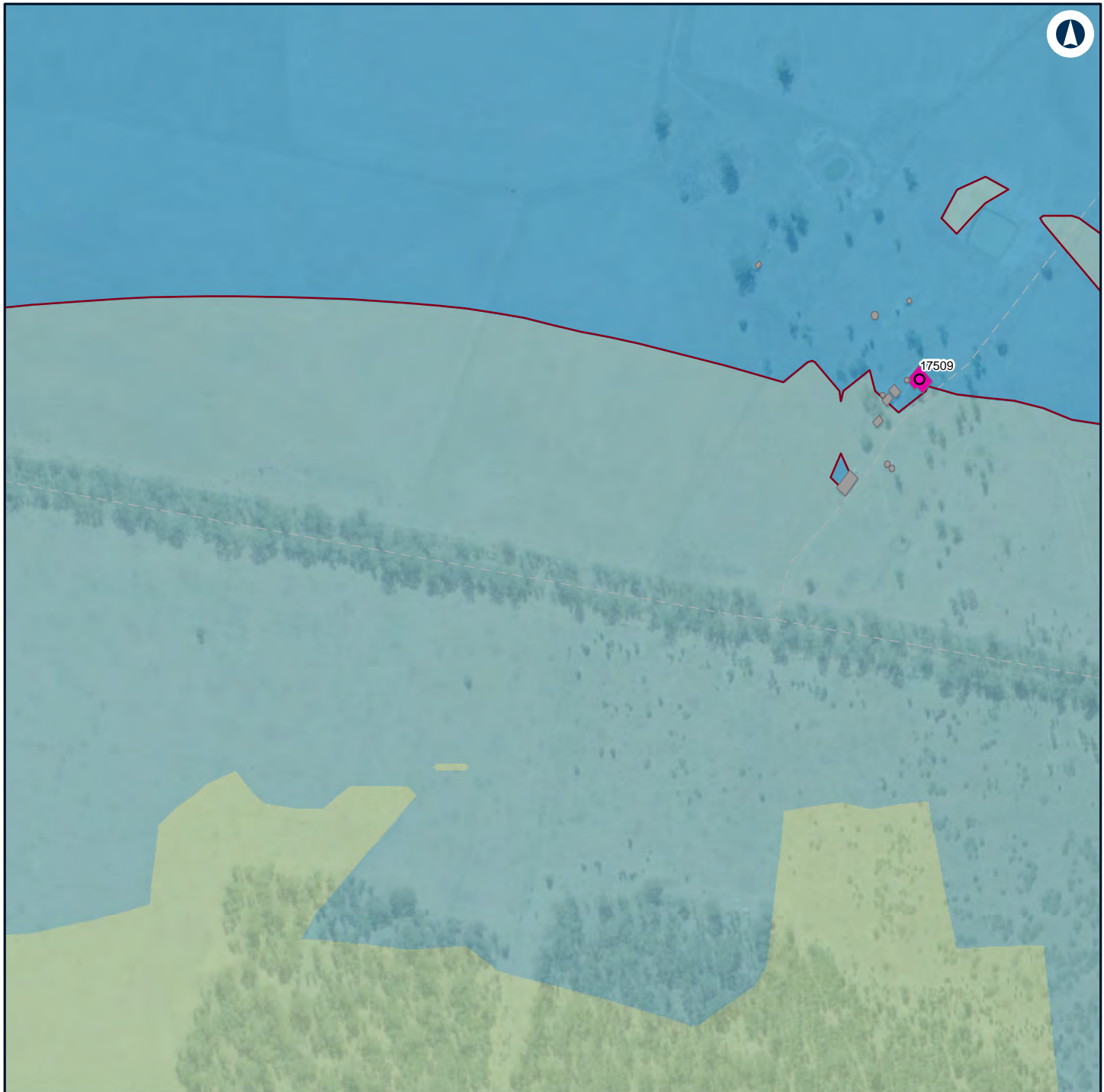
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

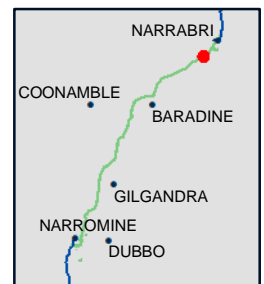
— Night-time noise management level

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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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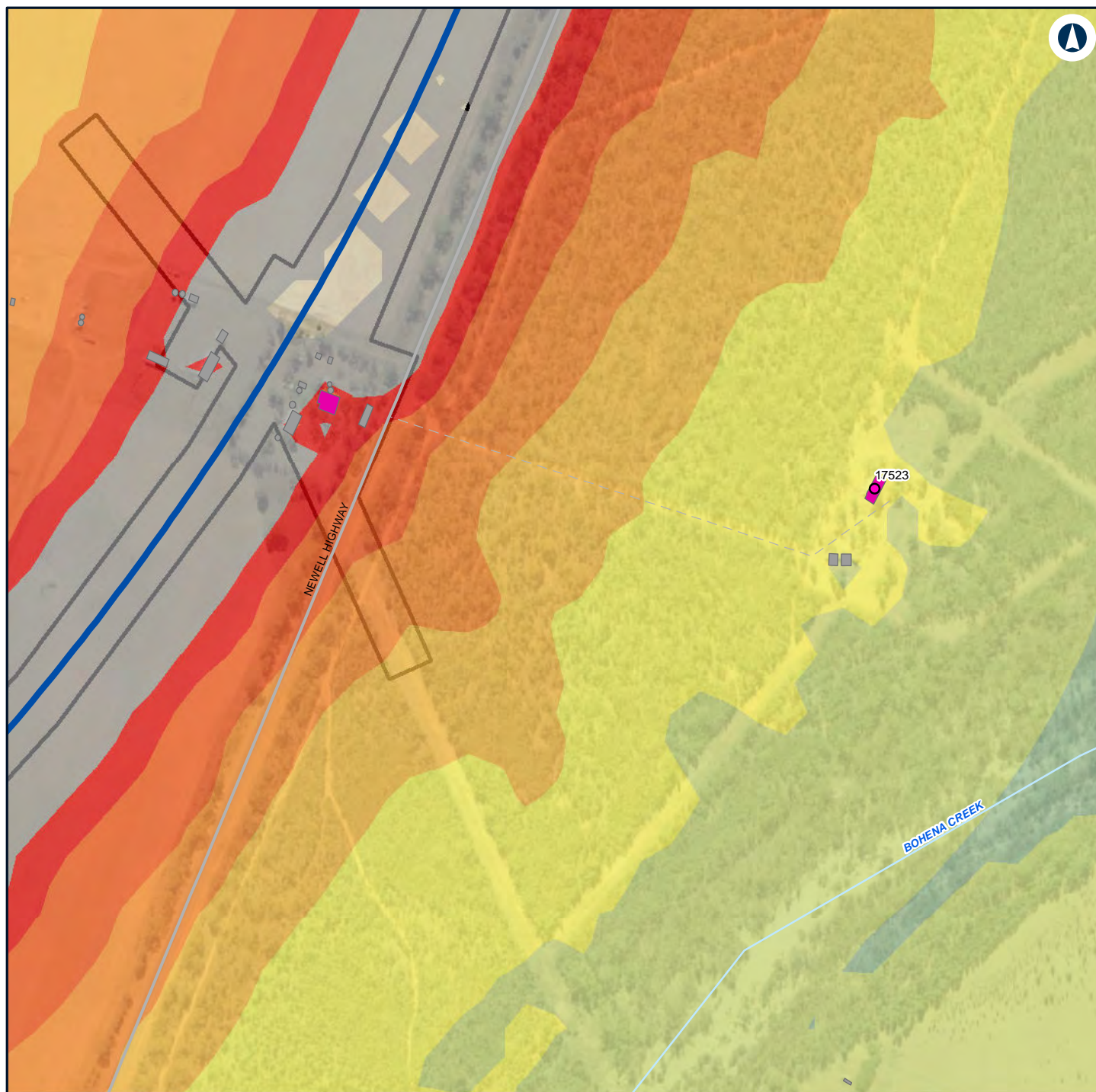
Author: GHD

Scale: 1:5,000















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

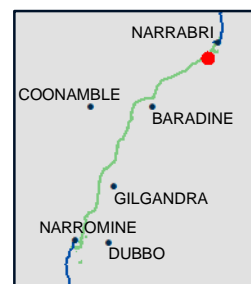
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LEGEND

	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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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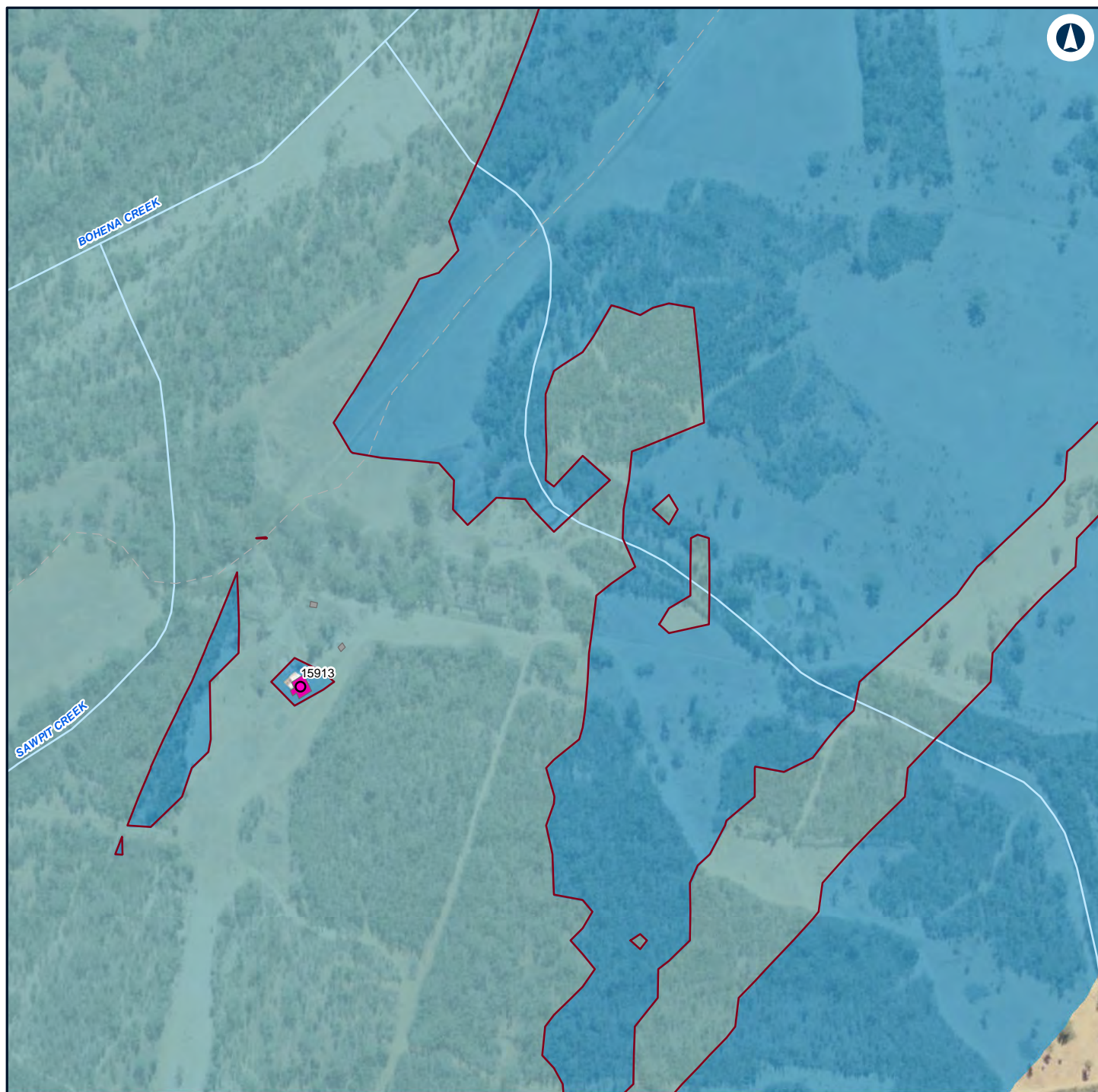
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

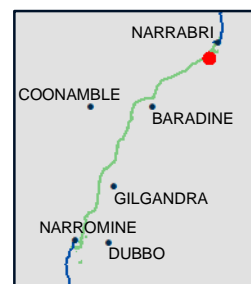
Residential

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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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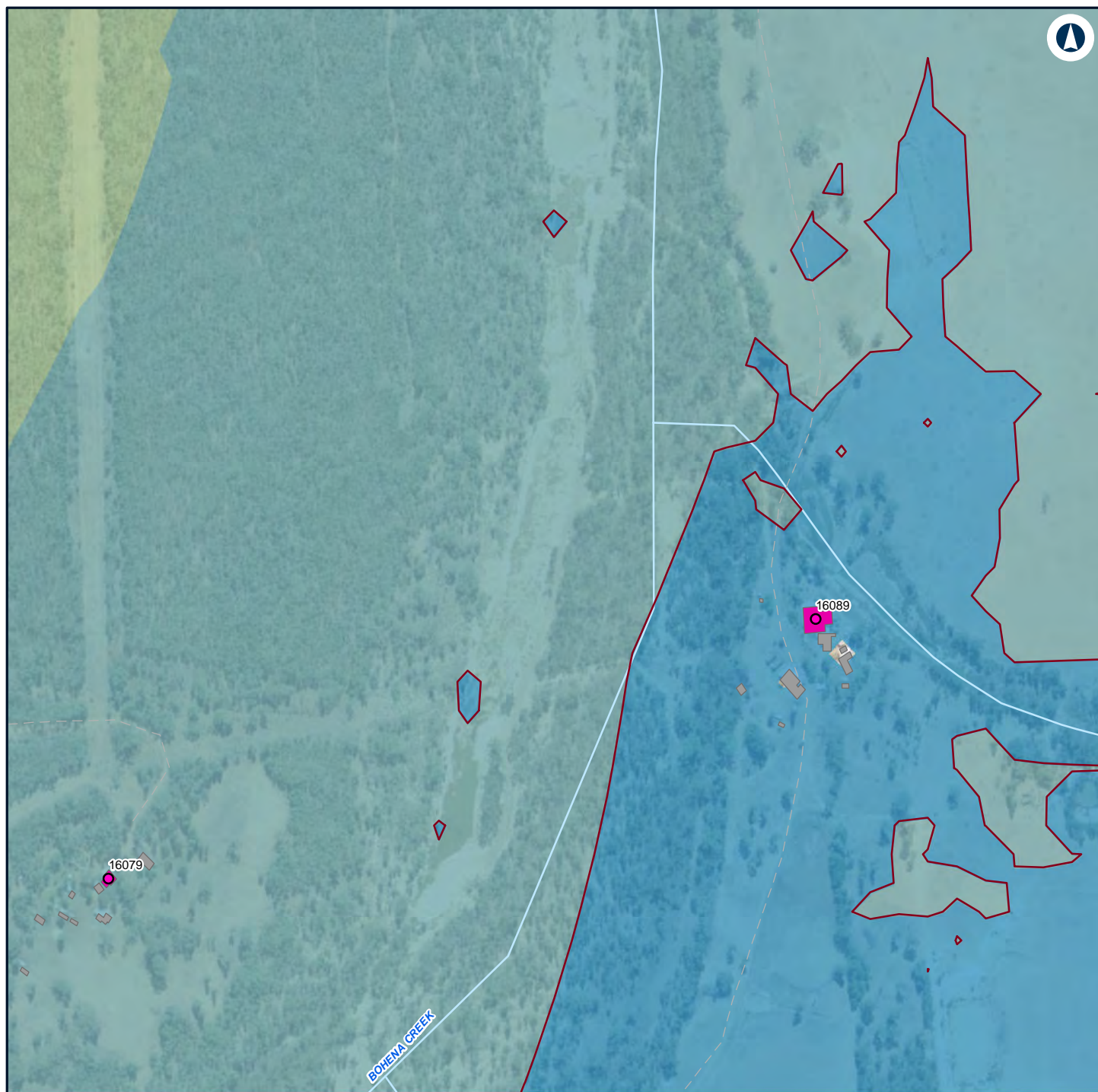
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

● Residential

■ Other

■ Residential

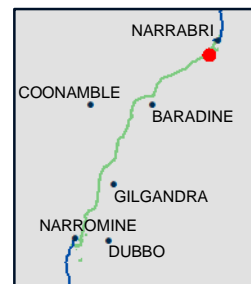
— Night-time noise management level

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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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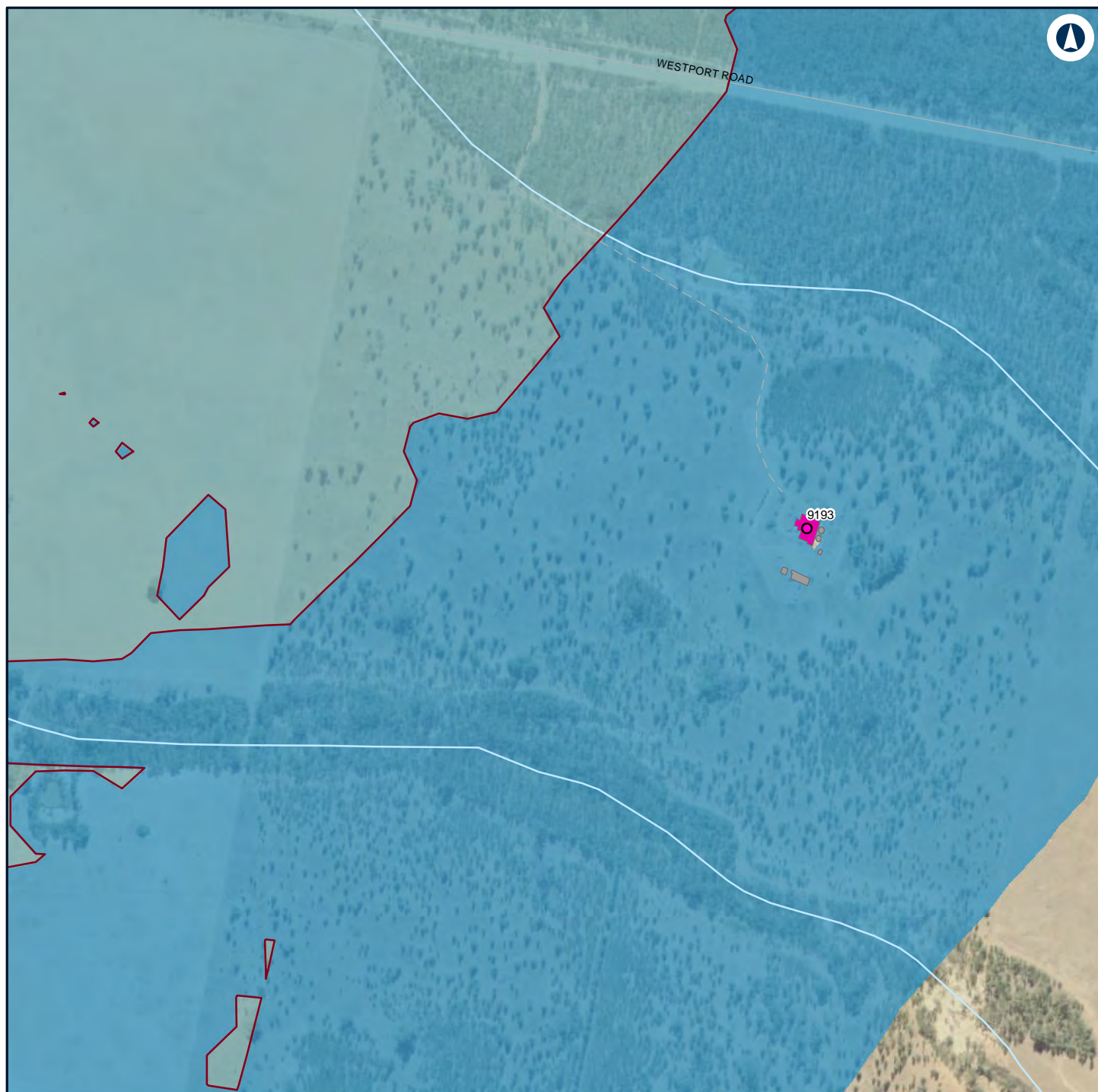
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

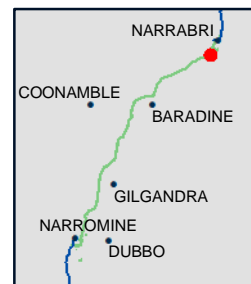
Residential

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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0 0.1 0.2
Km

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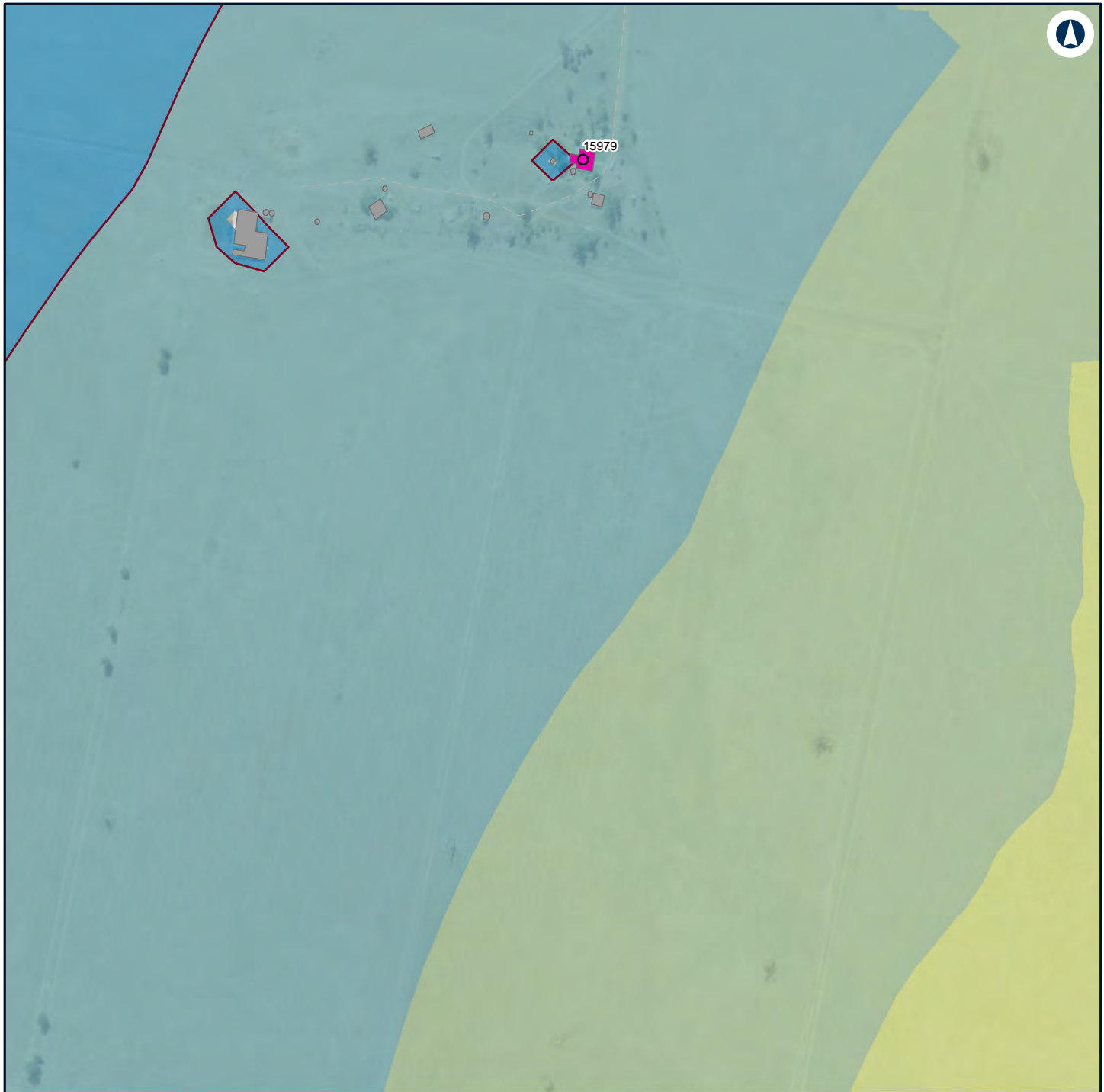
Author: GHD

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

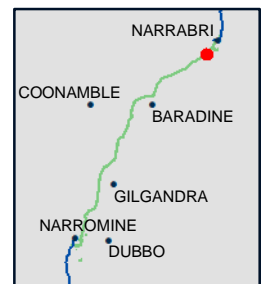
Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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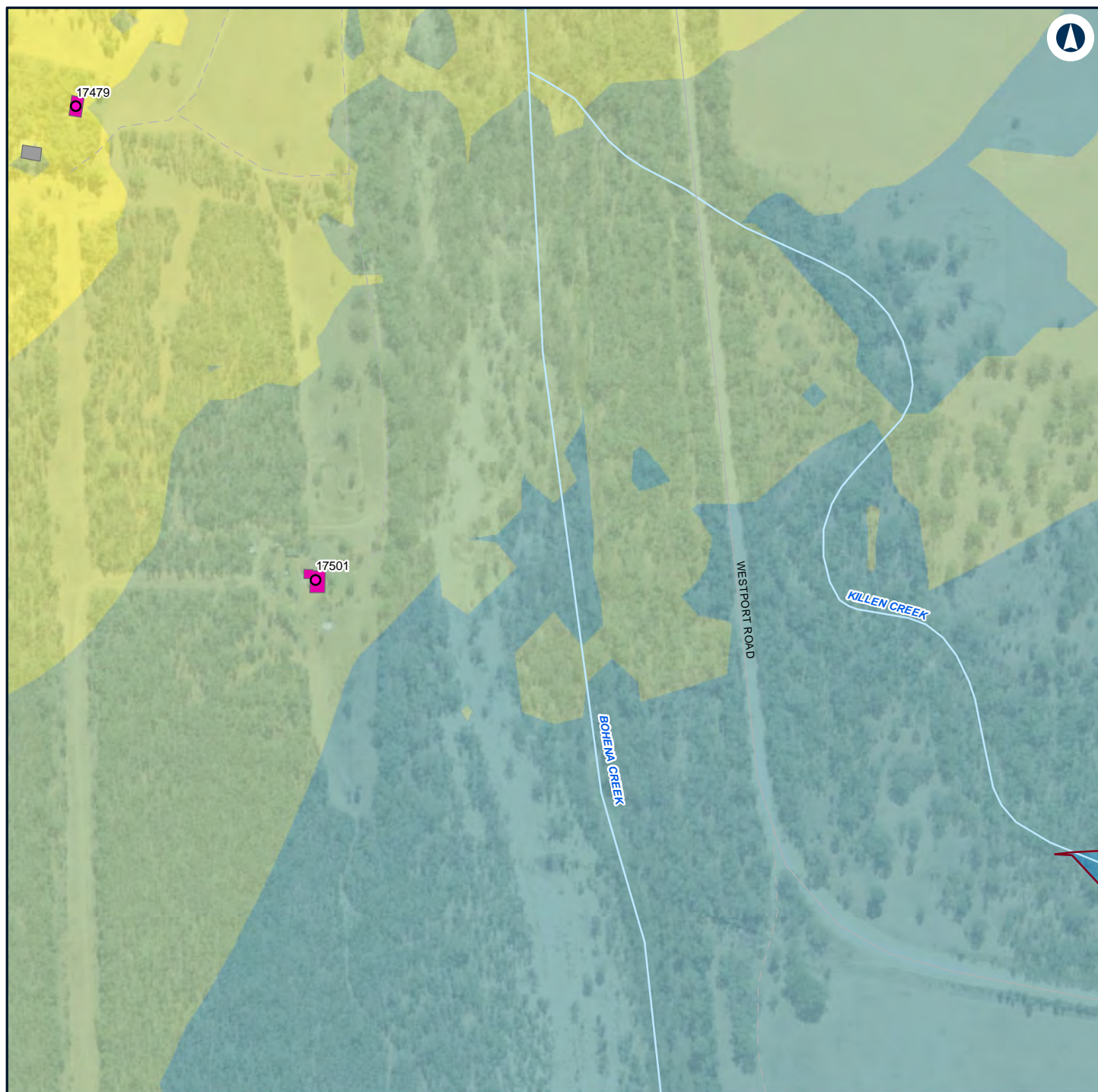
Author: GHD

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)

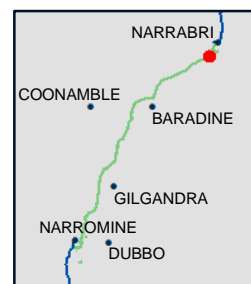
■ 30 - 35

■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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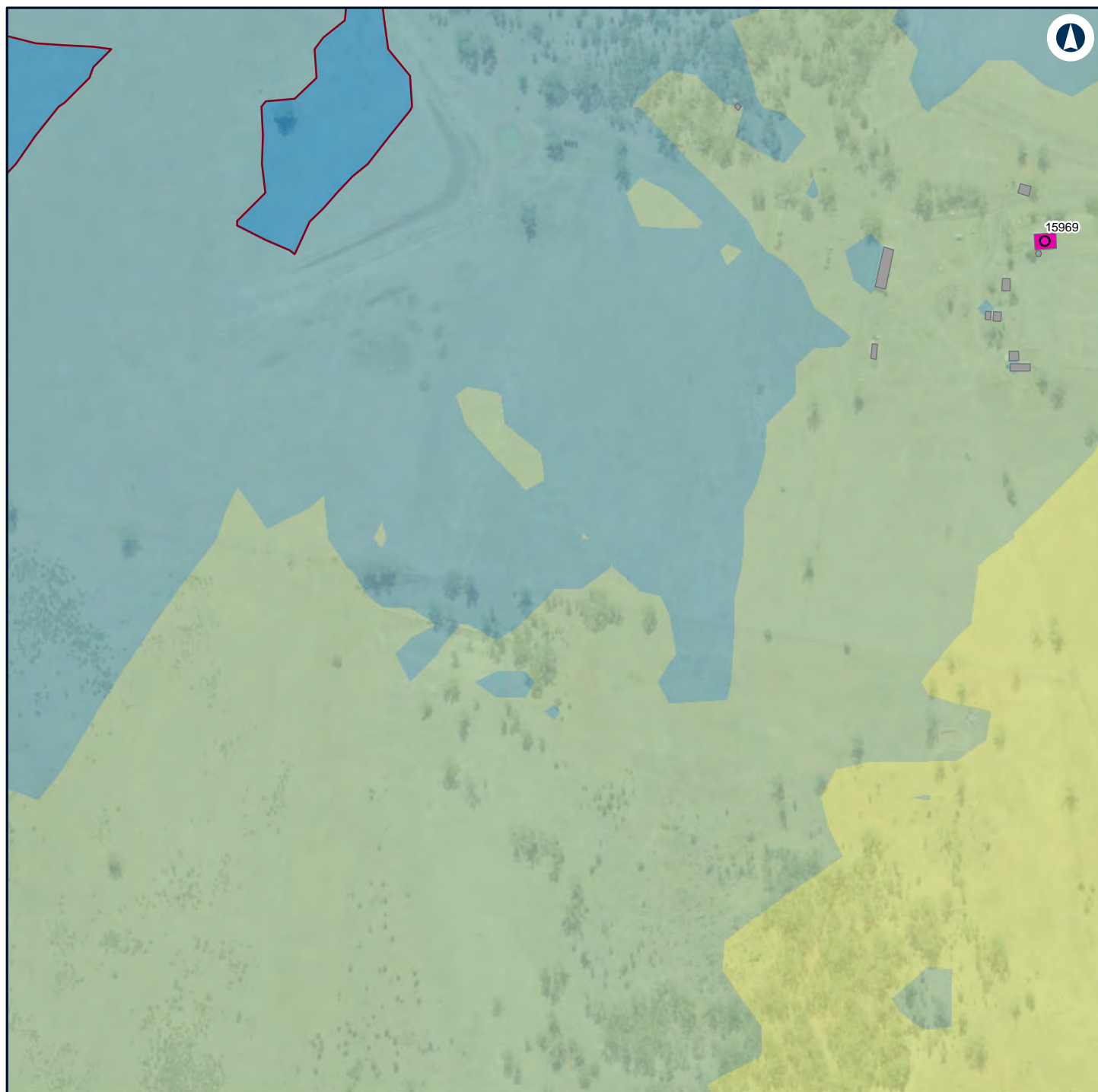
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

Residential

Night-time noise management level

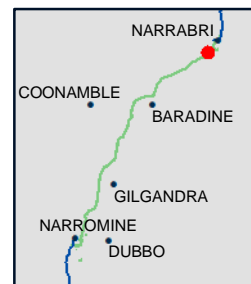
Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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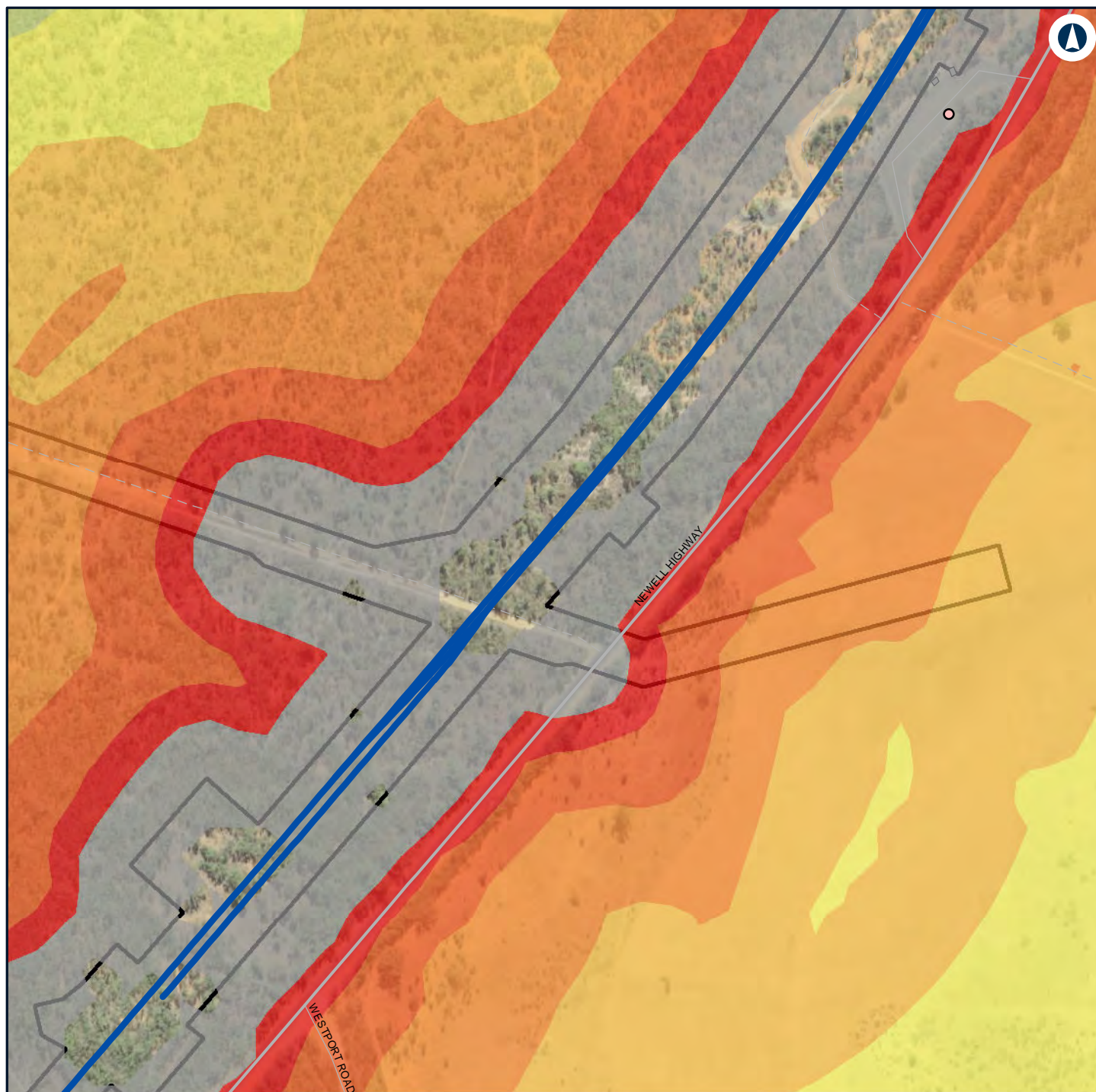
Author: GHD

Scale: 1:5,000

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

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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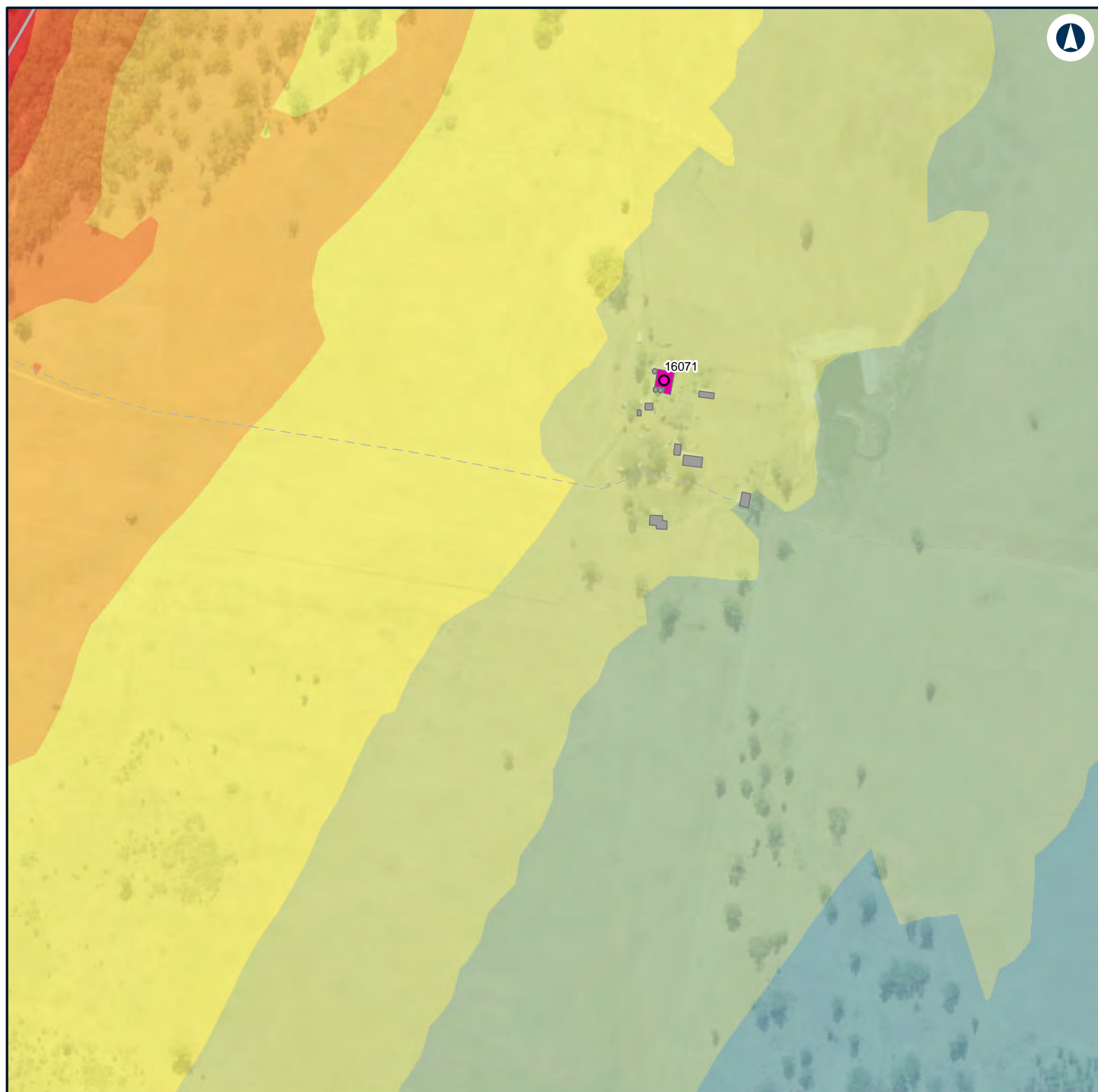
Author: GHD

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)

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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0 0.1 0.2 Km

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LEGEND

Structure type

Community

Community

Other

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

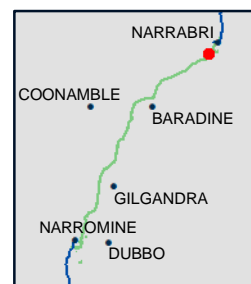
30 - 35

35 - 40

40 - 45

45 - 50

50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

● Residential

■ Other

■ Residential

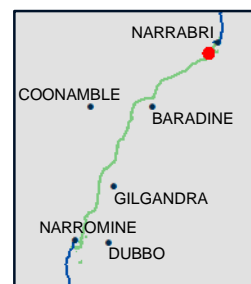
— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40

■ 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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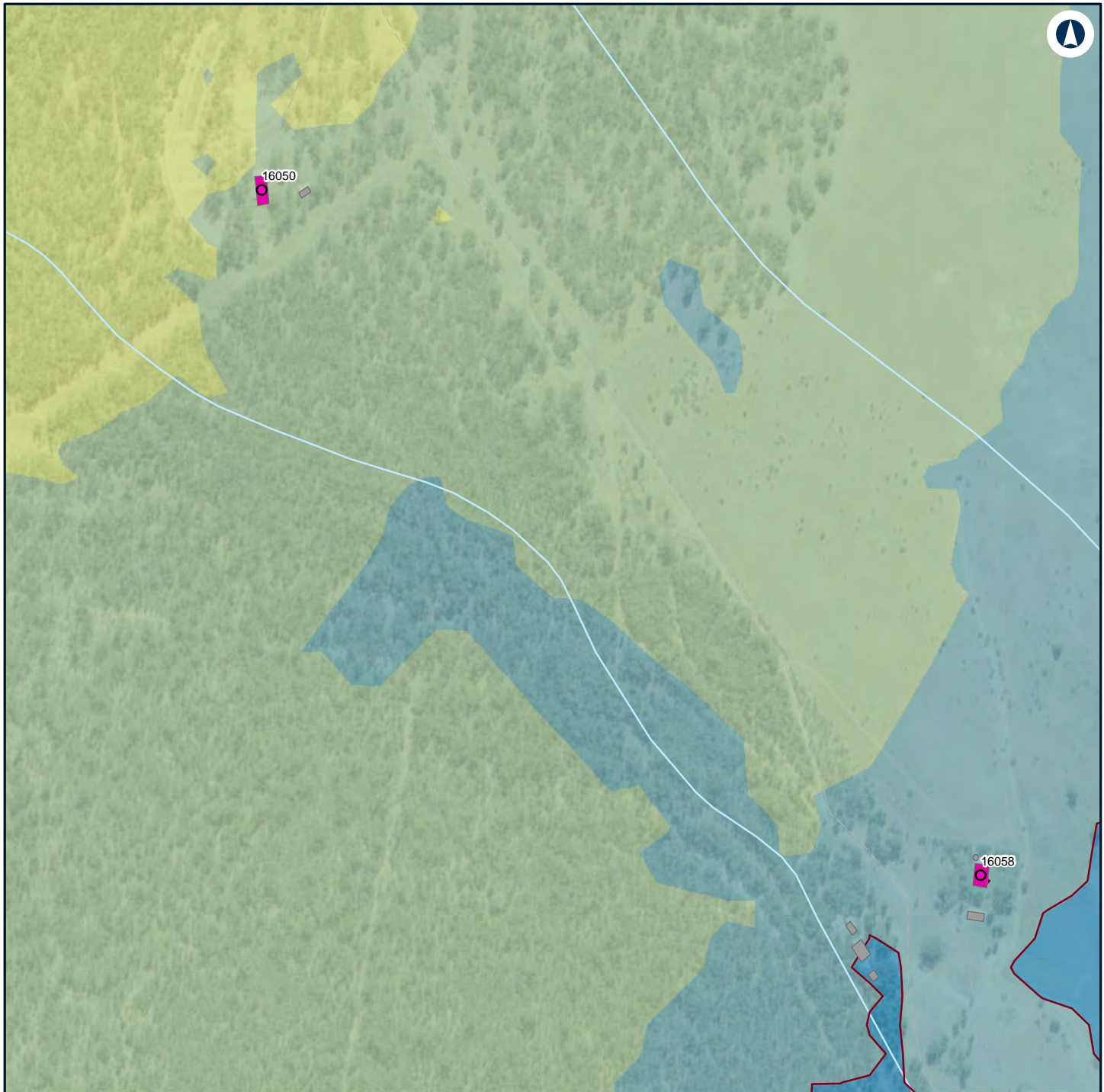
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Other

■ Residential

— 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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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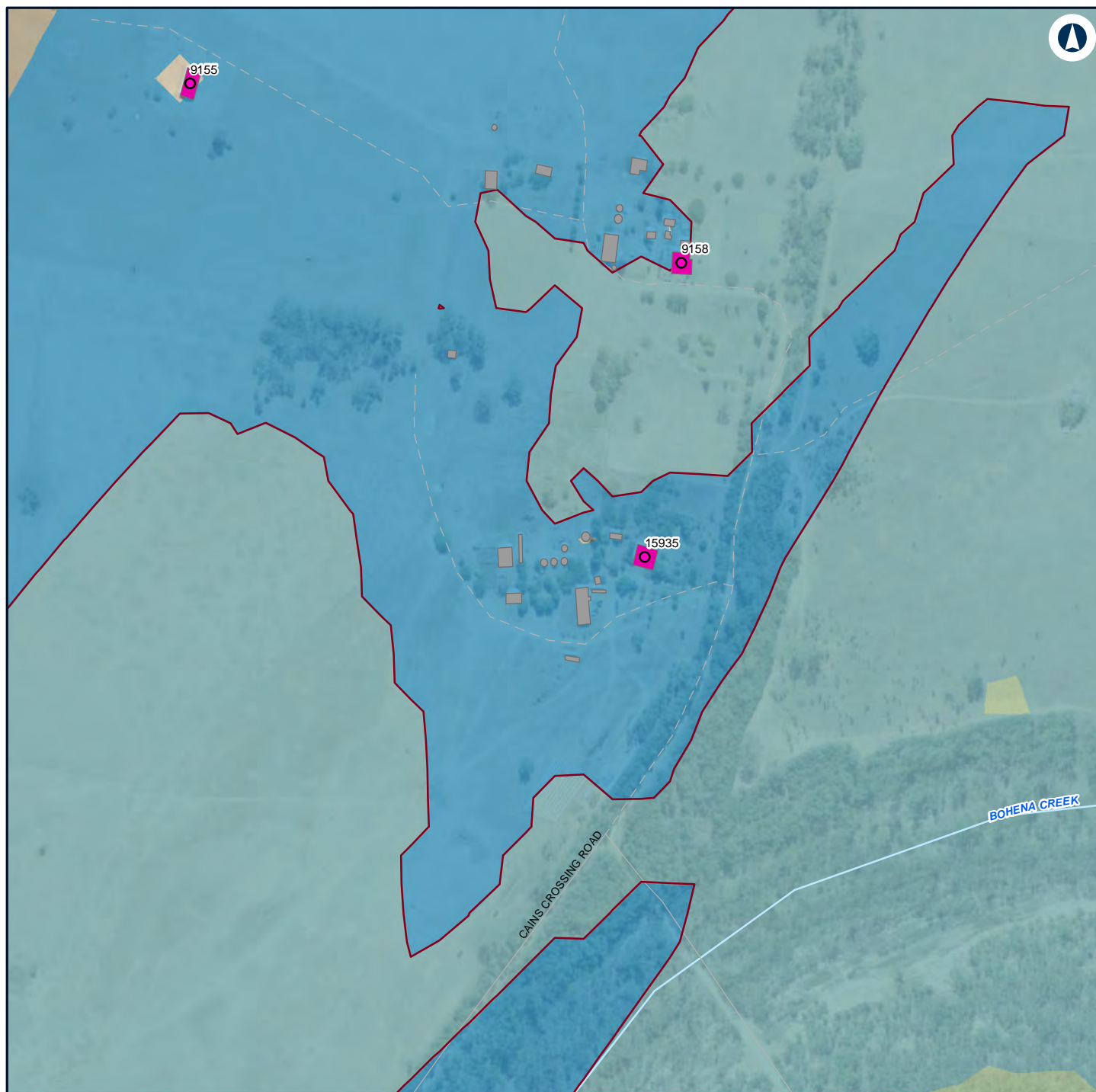
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Scale: 1:5,000

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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

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0 0.1 0.2
Km

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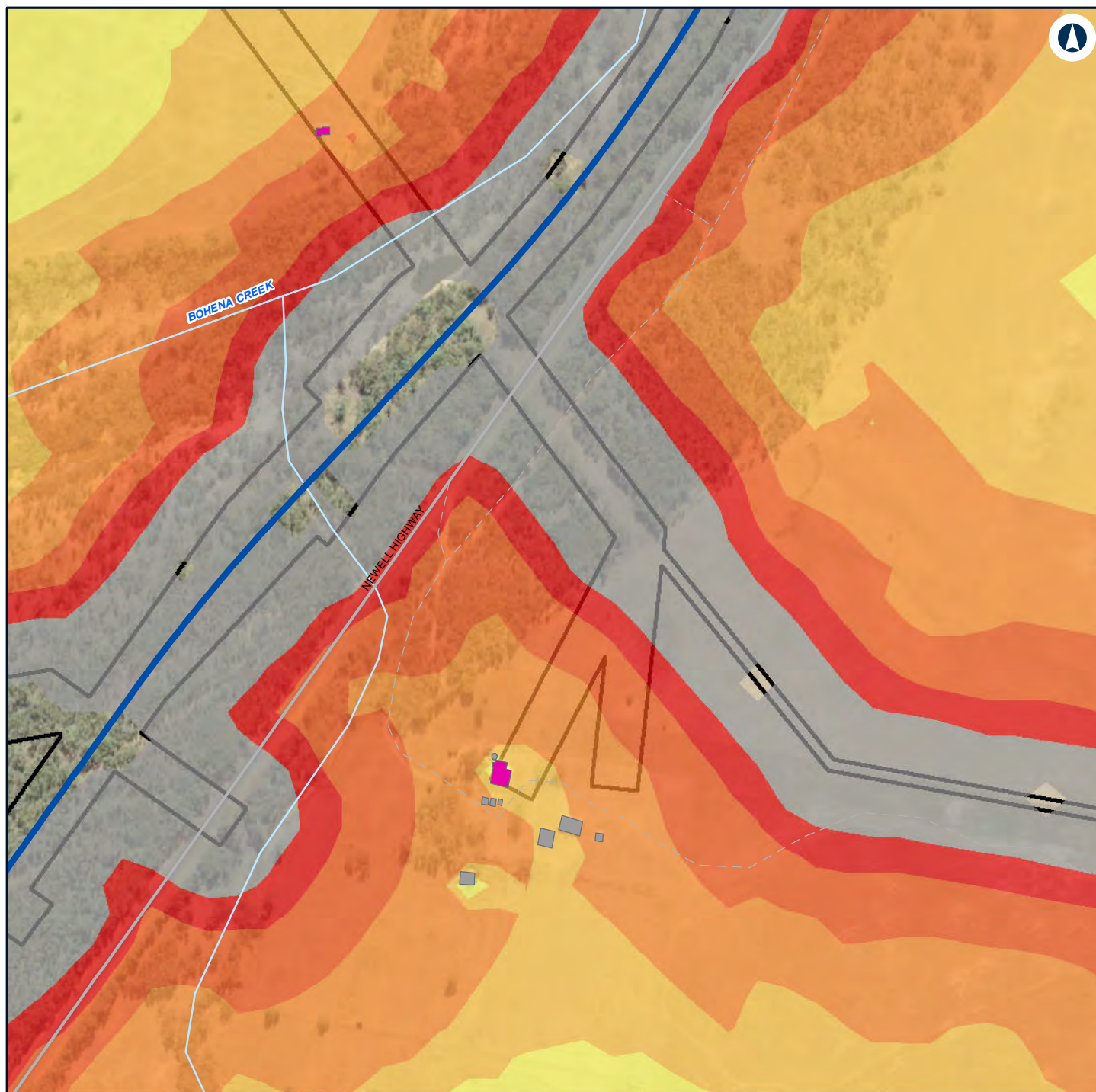
Author: GHD

Scale: 1:5,000

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

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

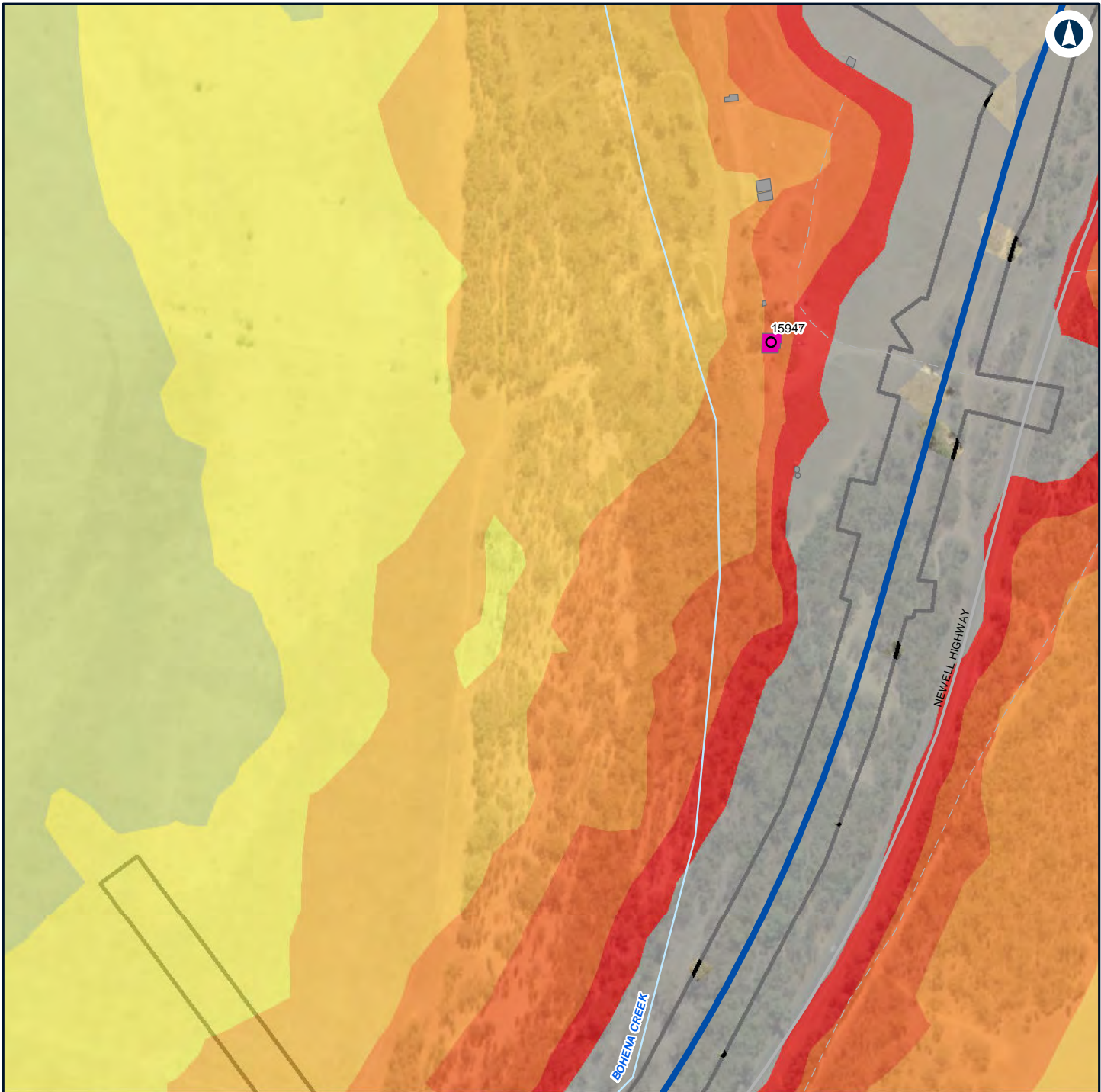
Author: GHD

Scale: 1:5,000

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

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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)		> 75
	Structure type			
	Residential			
	Other			
	Residential			
	Alignment			
		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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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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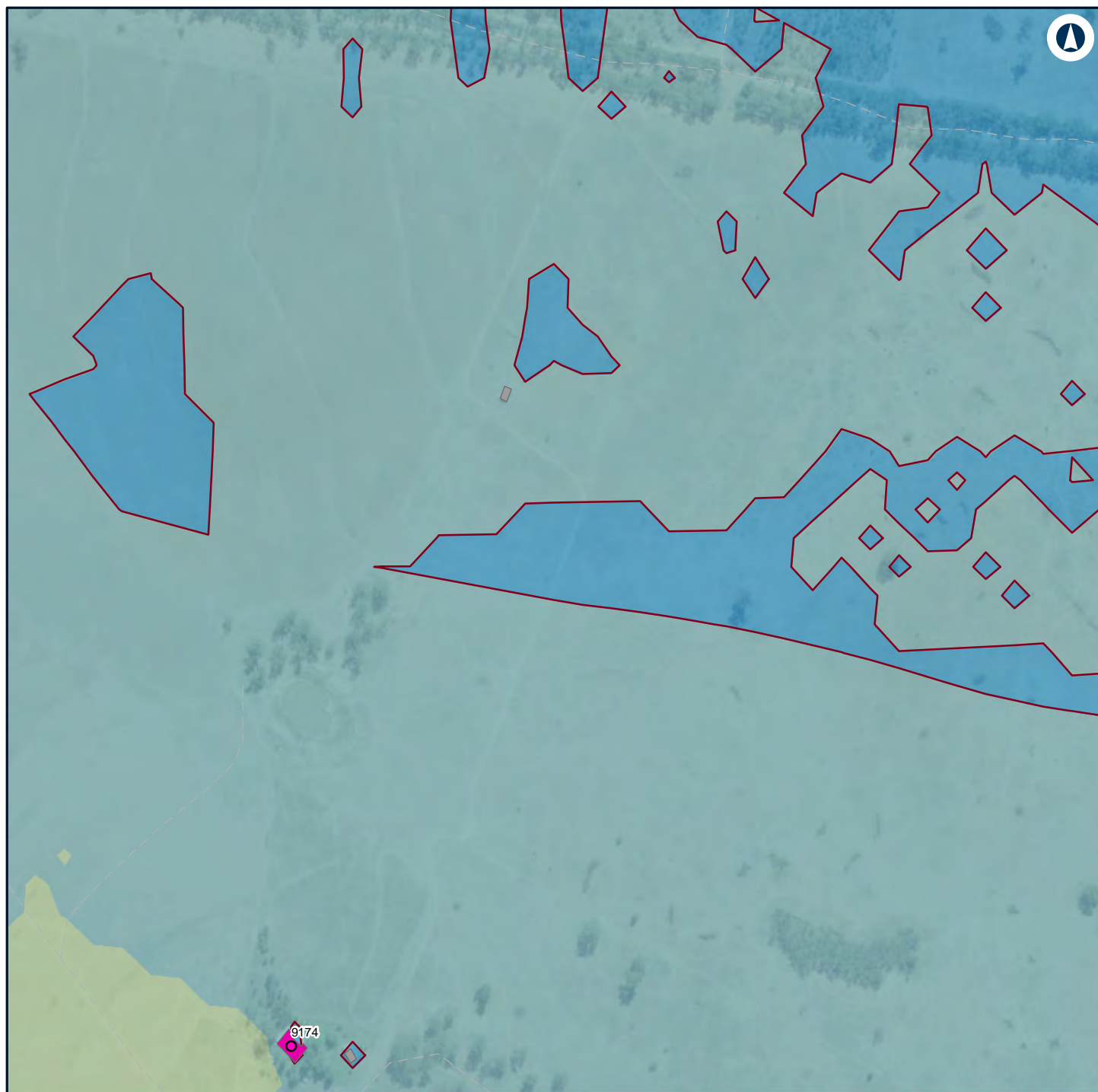
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Scale: 1:5,000

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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

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0 0.1 0.2
Km

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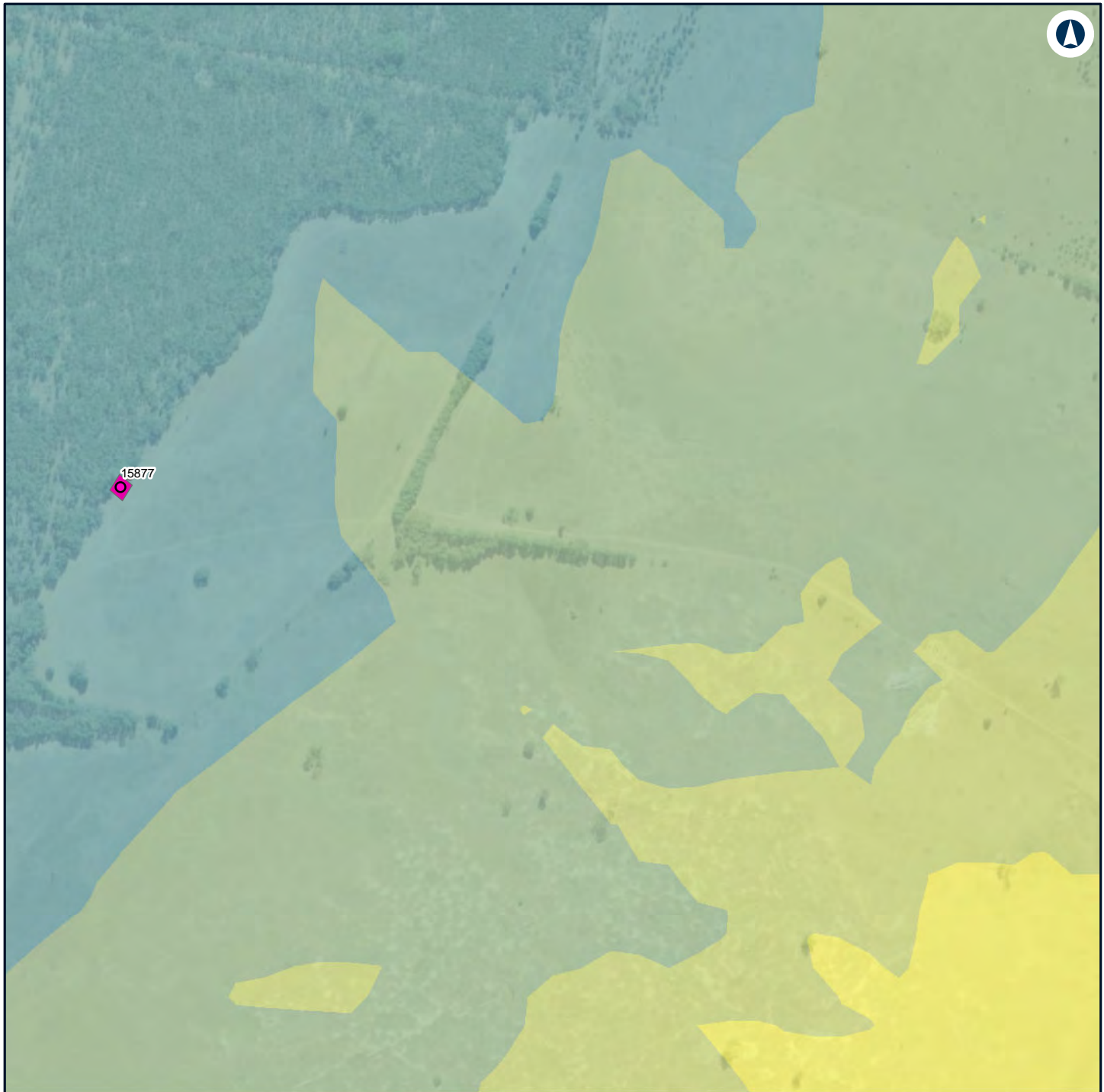
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LEGEND

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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0 0.1 0.2
Km

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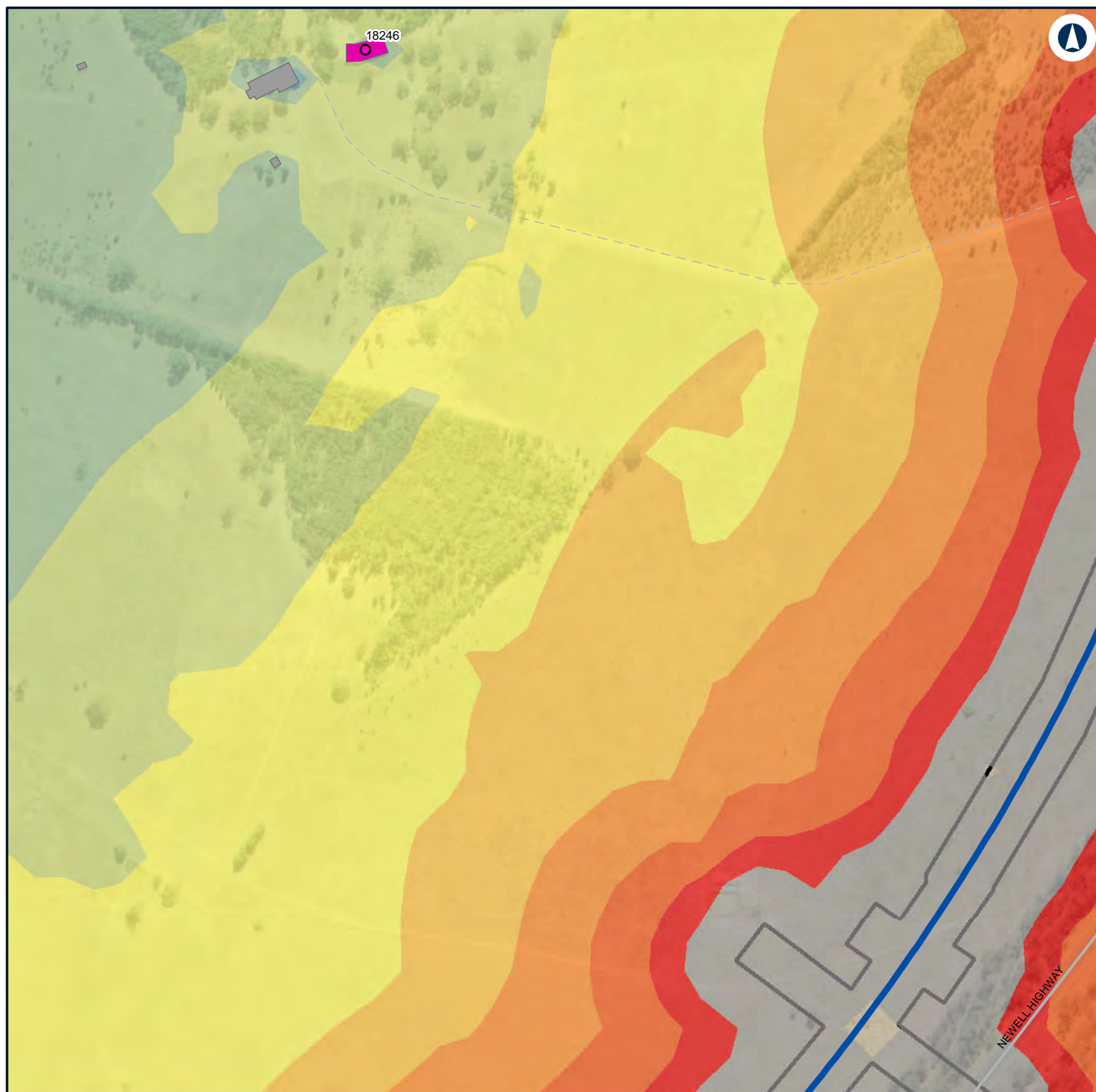
Author: GHD

Scale: 1:5,000

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

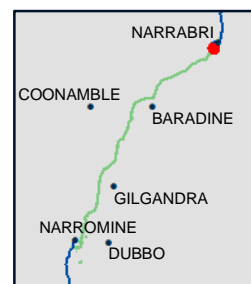
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LEGEND

Construction footprint	Noise level (dBA L_{Aeq} 15 minute)	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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0 0.1 0.2
Km

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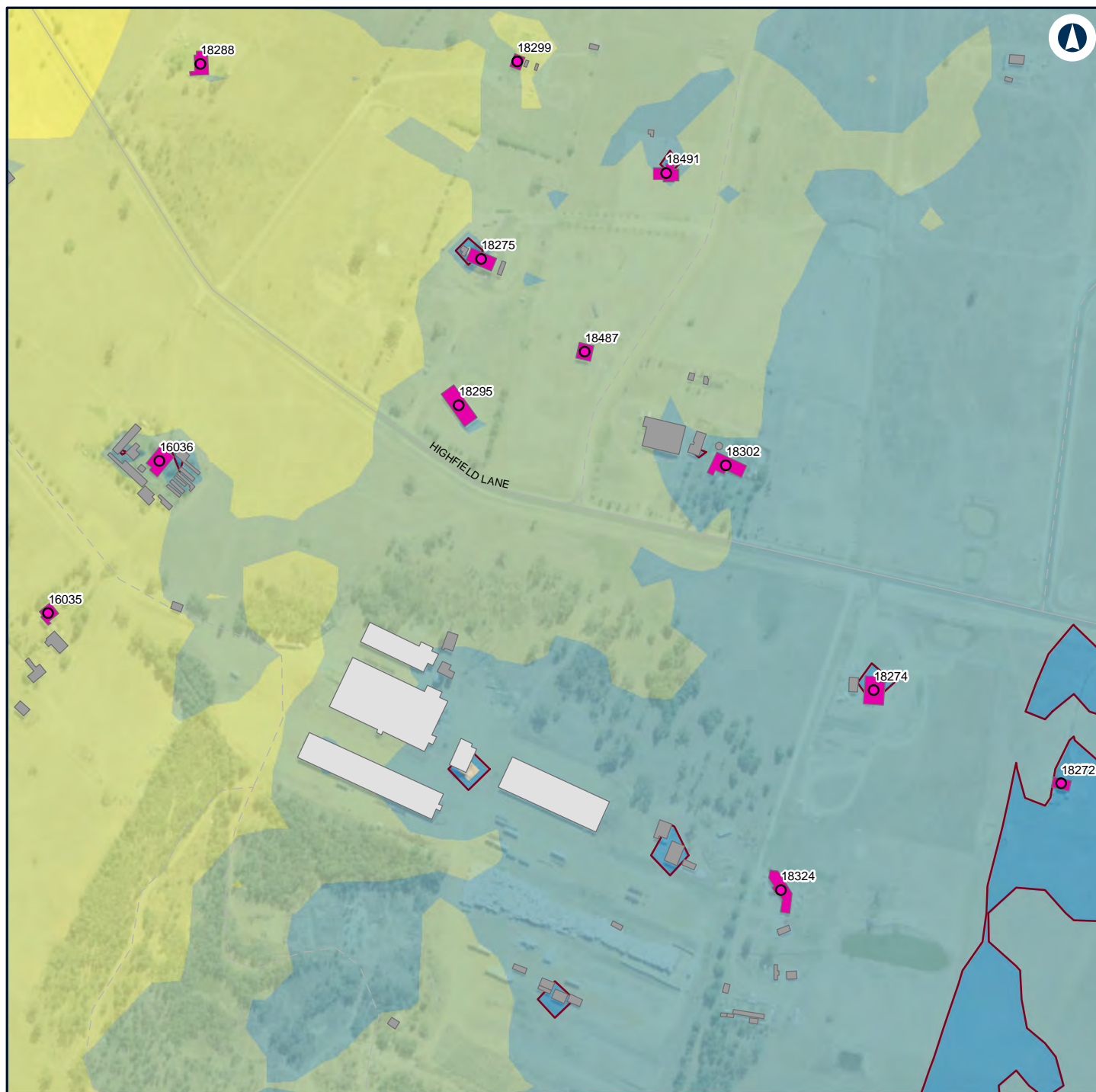
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Scale: 1:5,000

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

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0 0.1 0.2
Km

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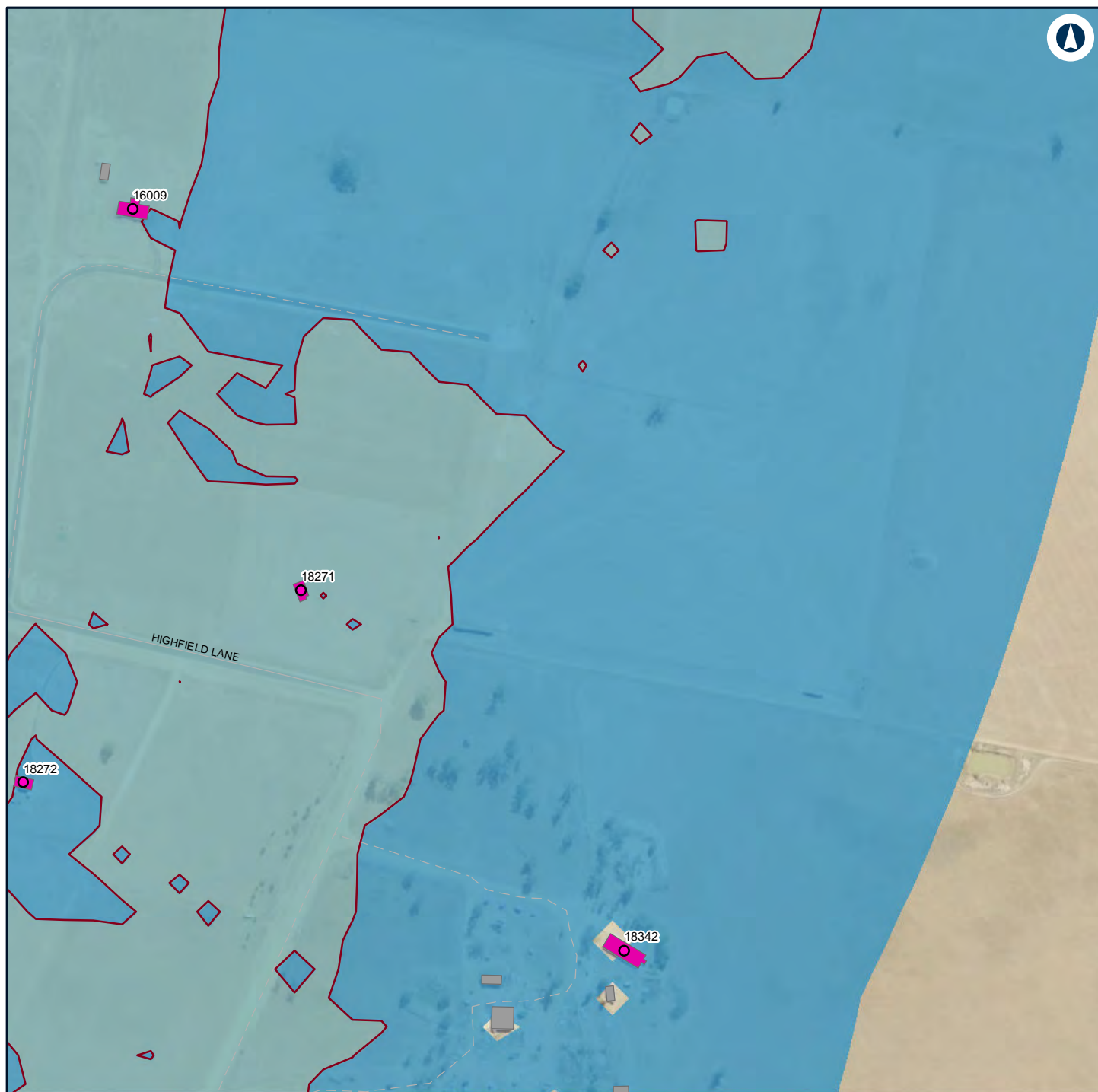
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LEGEND

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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0 0.1 0.2
Km

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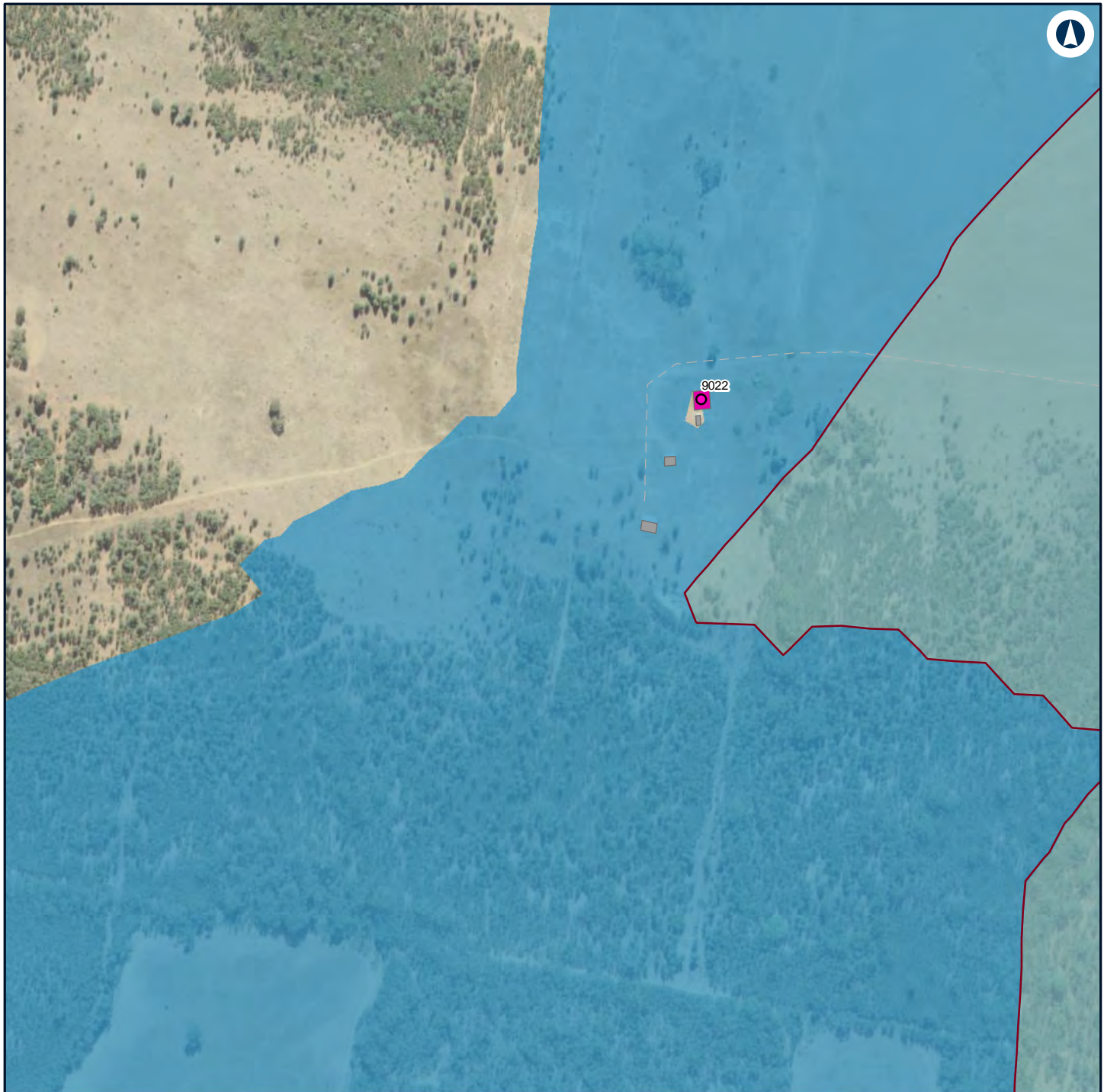
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LEGEND

Structure type

● Residential

■ Other

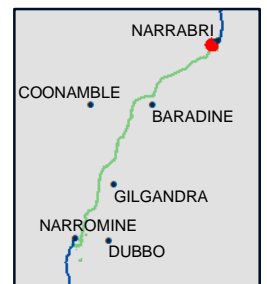
■ Residential

— 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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0 0.1 0.2
Km

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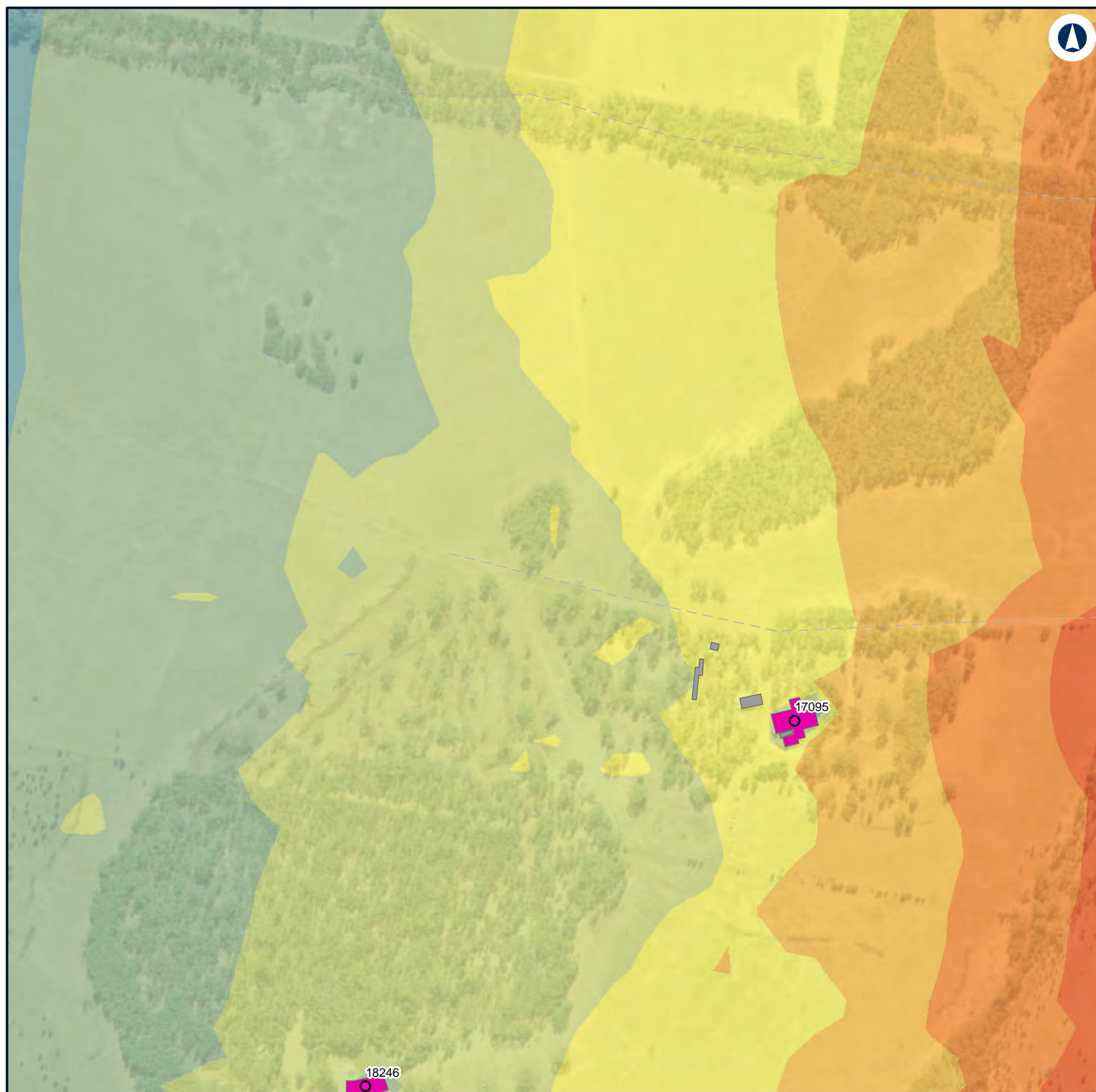
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

Residential

Other

Residential

Noise level (dBA L_{Aeq} 15 minute)

35 - 40

40 - 45

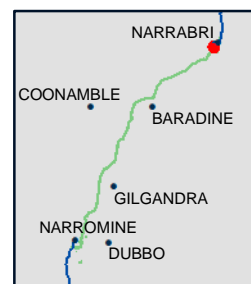
45 - 50

50 - 55

55 - 60

60 - 65

65 - 70



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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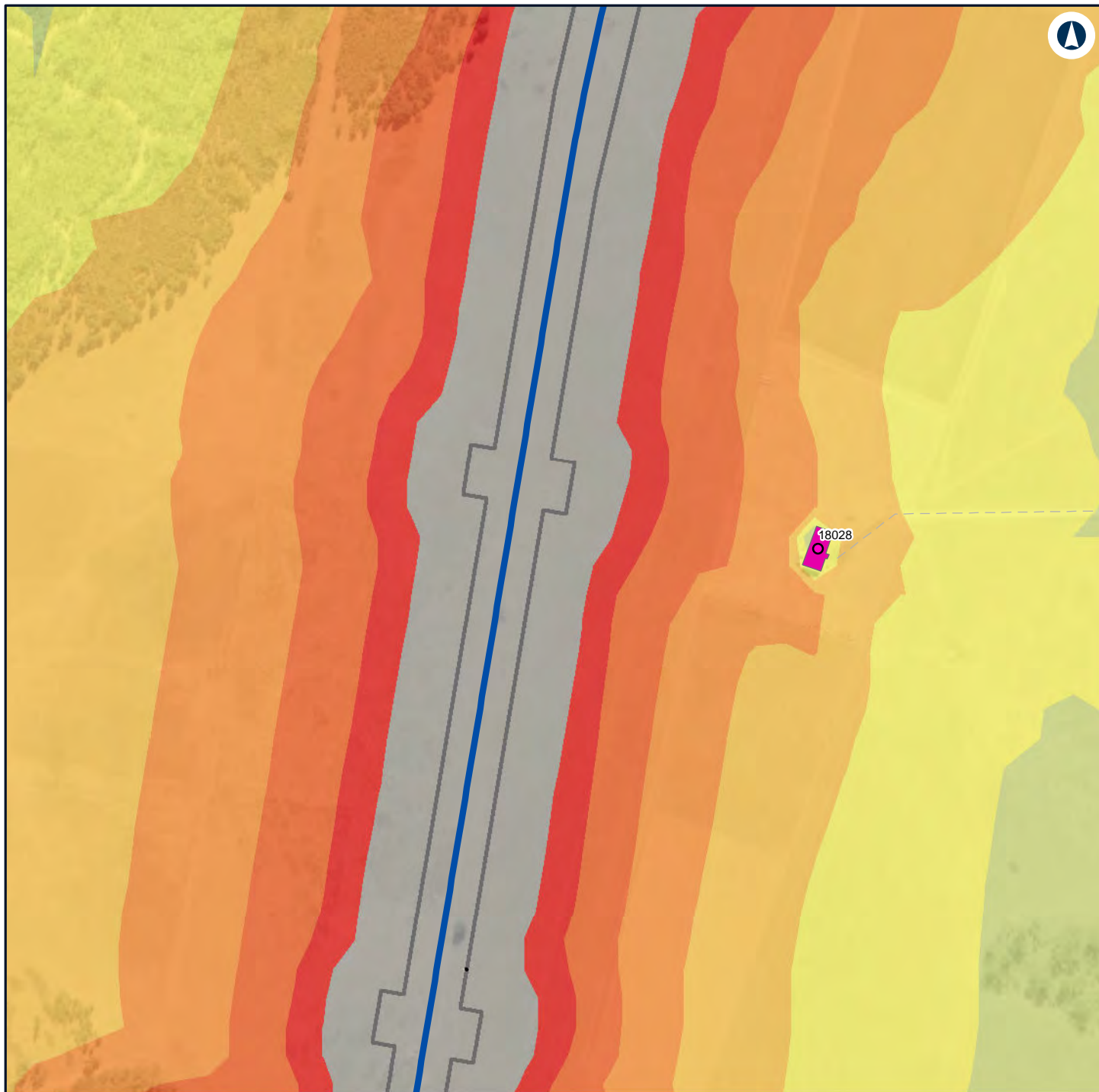
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Scale: 1:5,000

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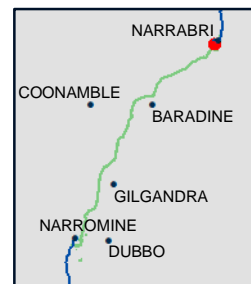
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LEGEND

	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
			40 - 45
			> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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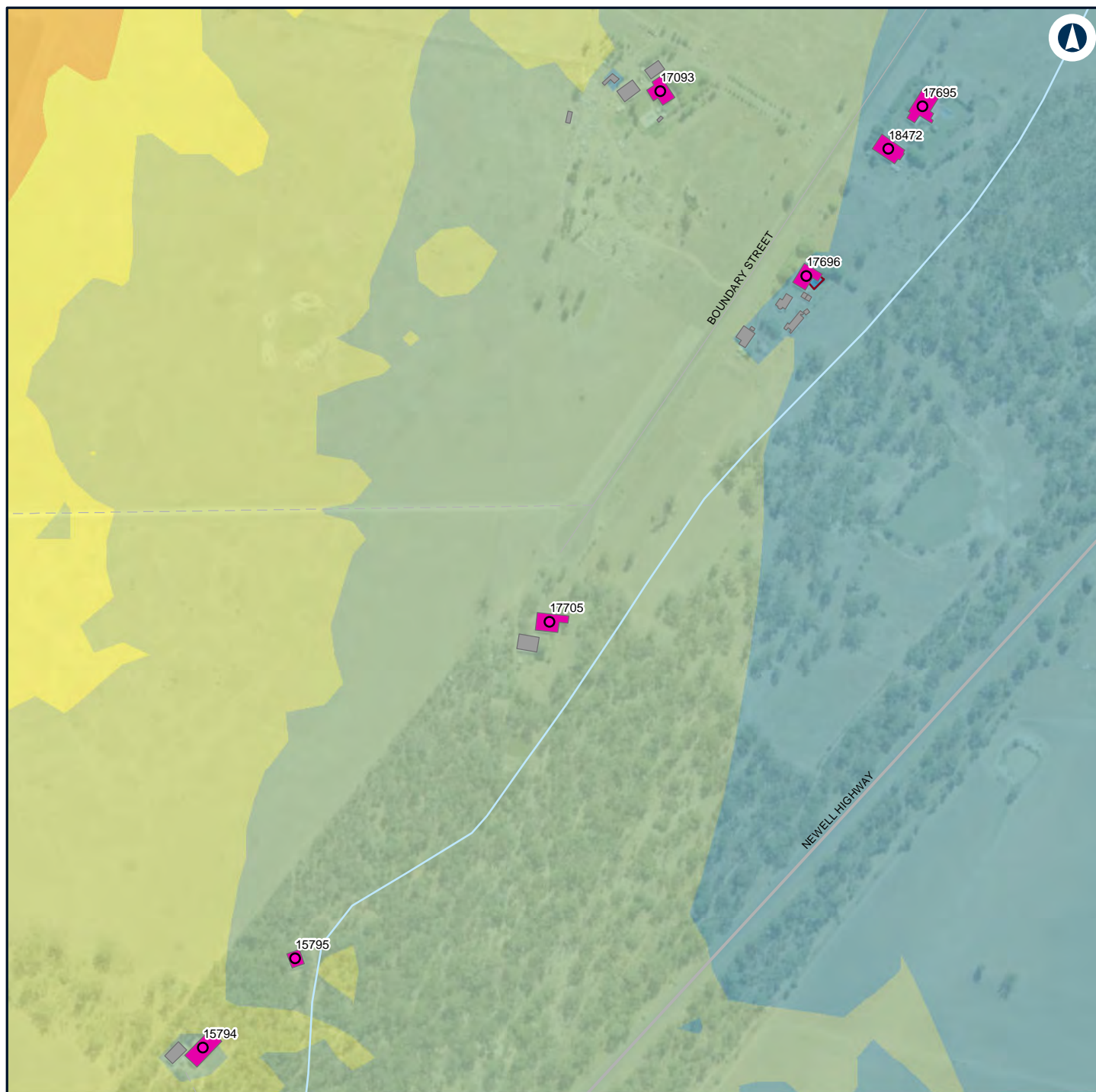
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

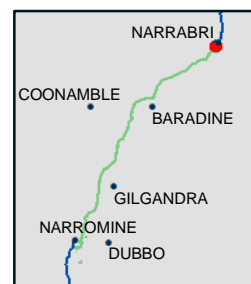
■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55

■ 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 246 of 298

0 0.1 0.2
Km

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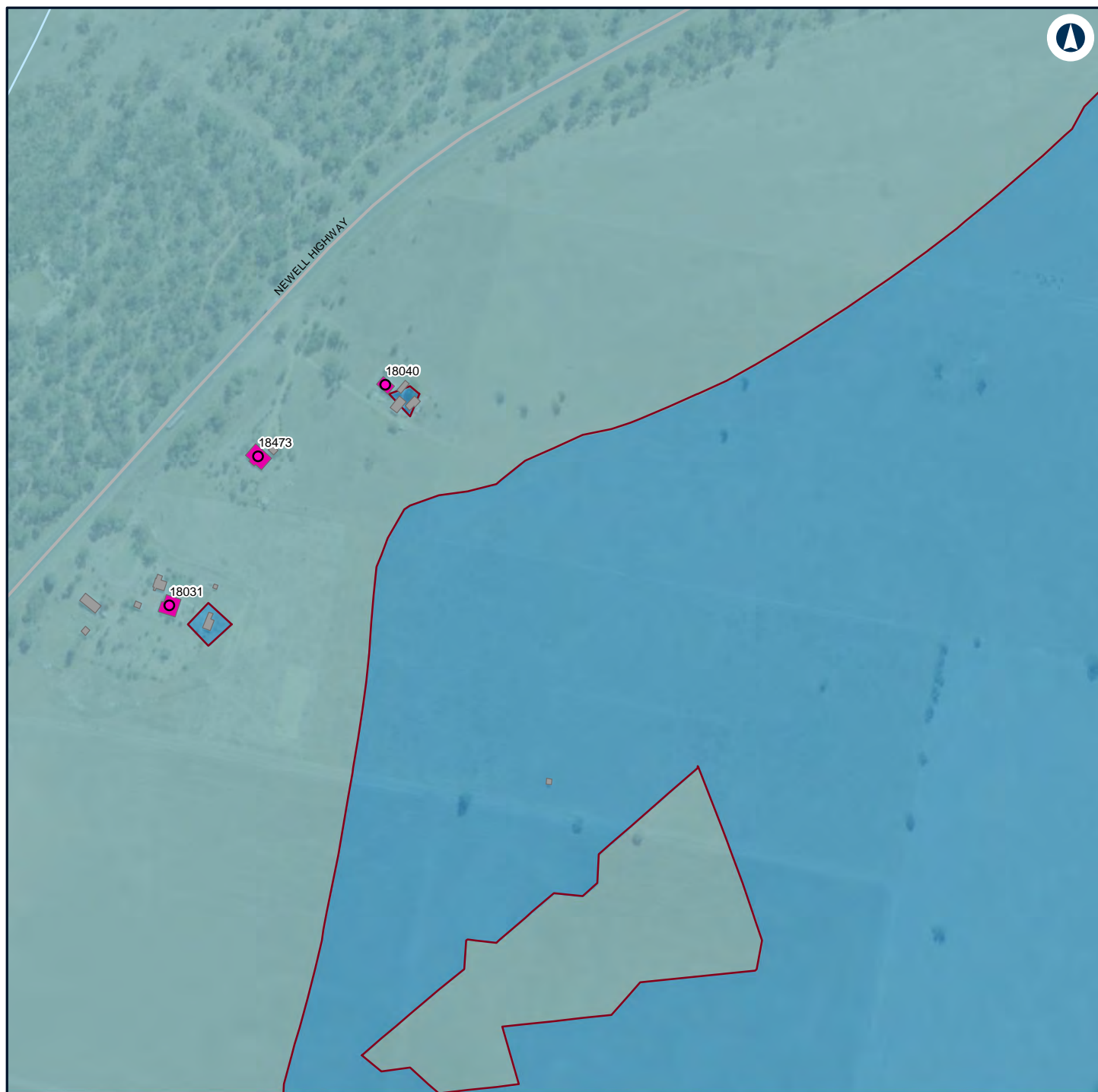
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LEGEND

Structure type

● Residential

■ Other

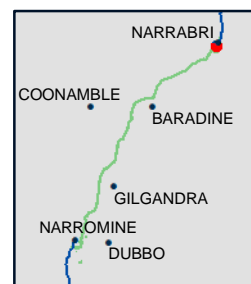
■ Residential

— 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

Appendix F - Page 247 of 298

0 0.1 0.2
Km

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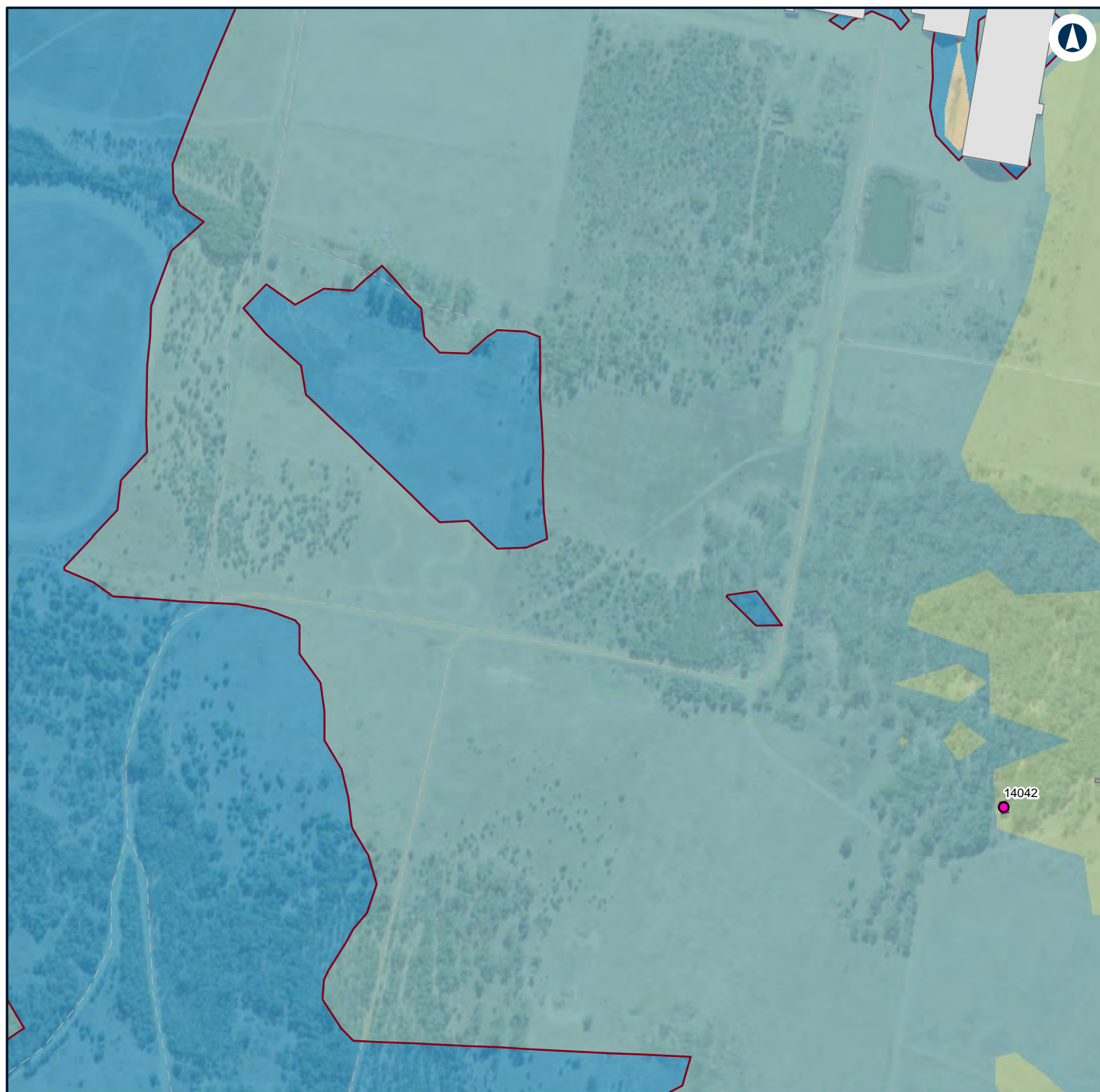
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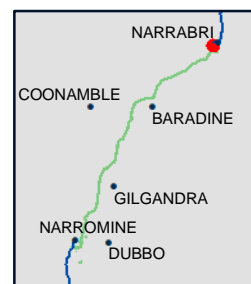
LEGEND

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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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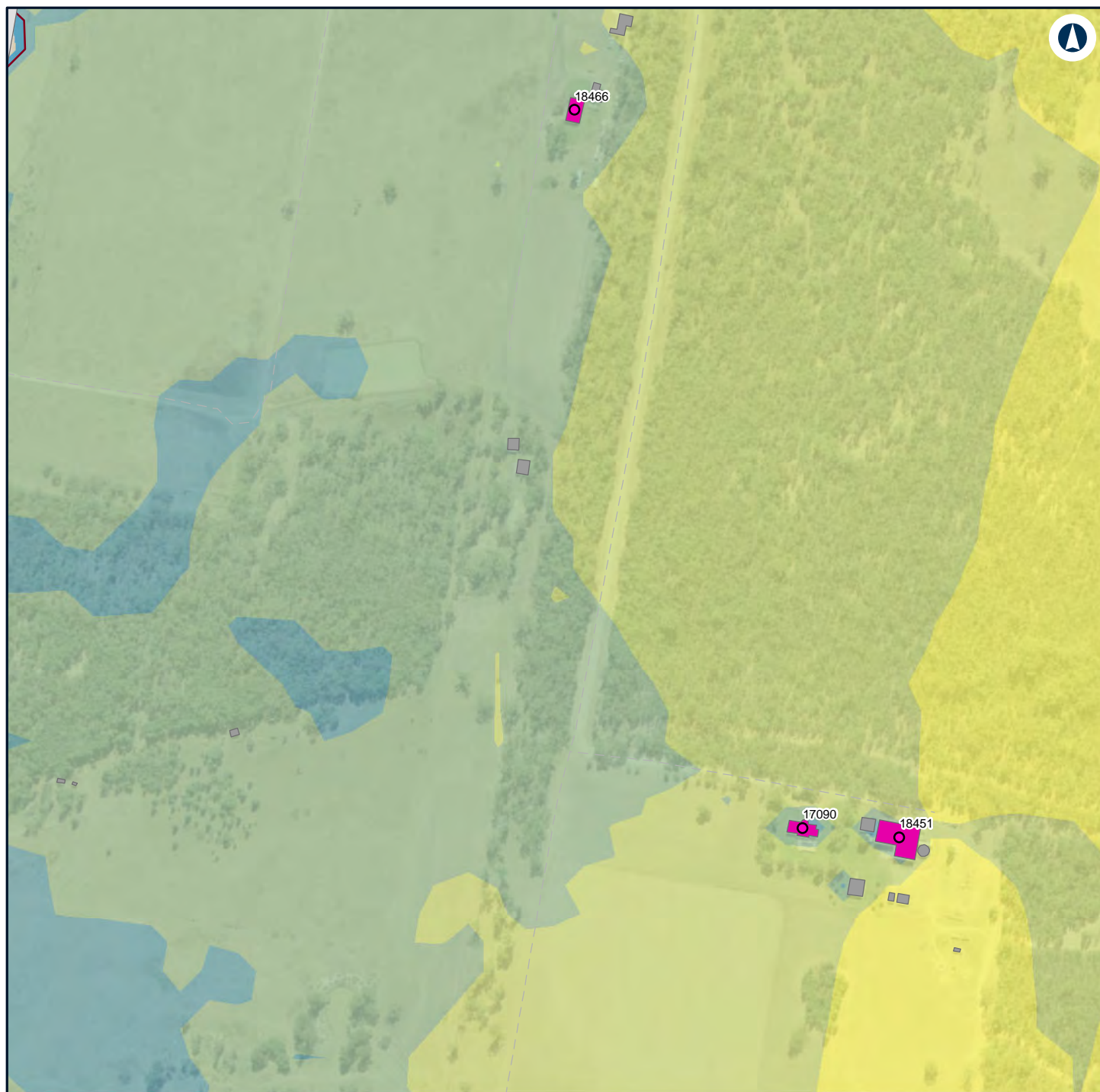
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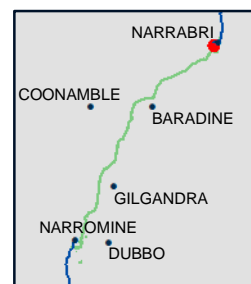
LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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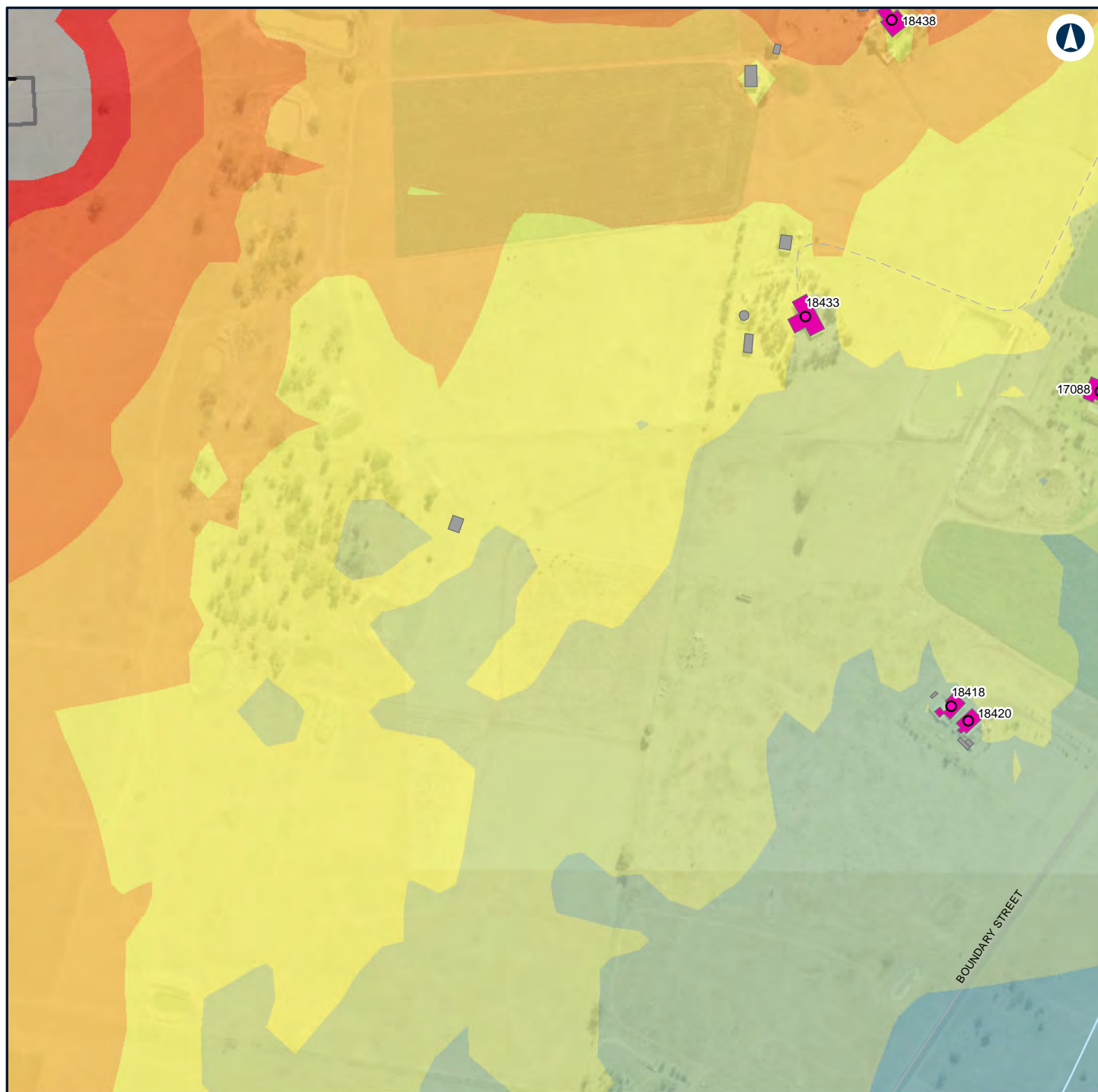
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

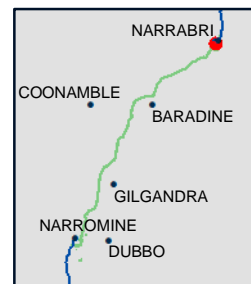
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LEGEND

	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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0 0.1 0.2
Km

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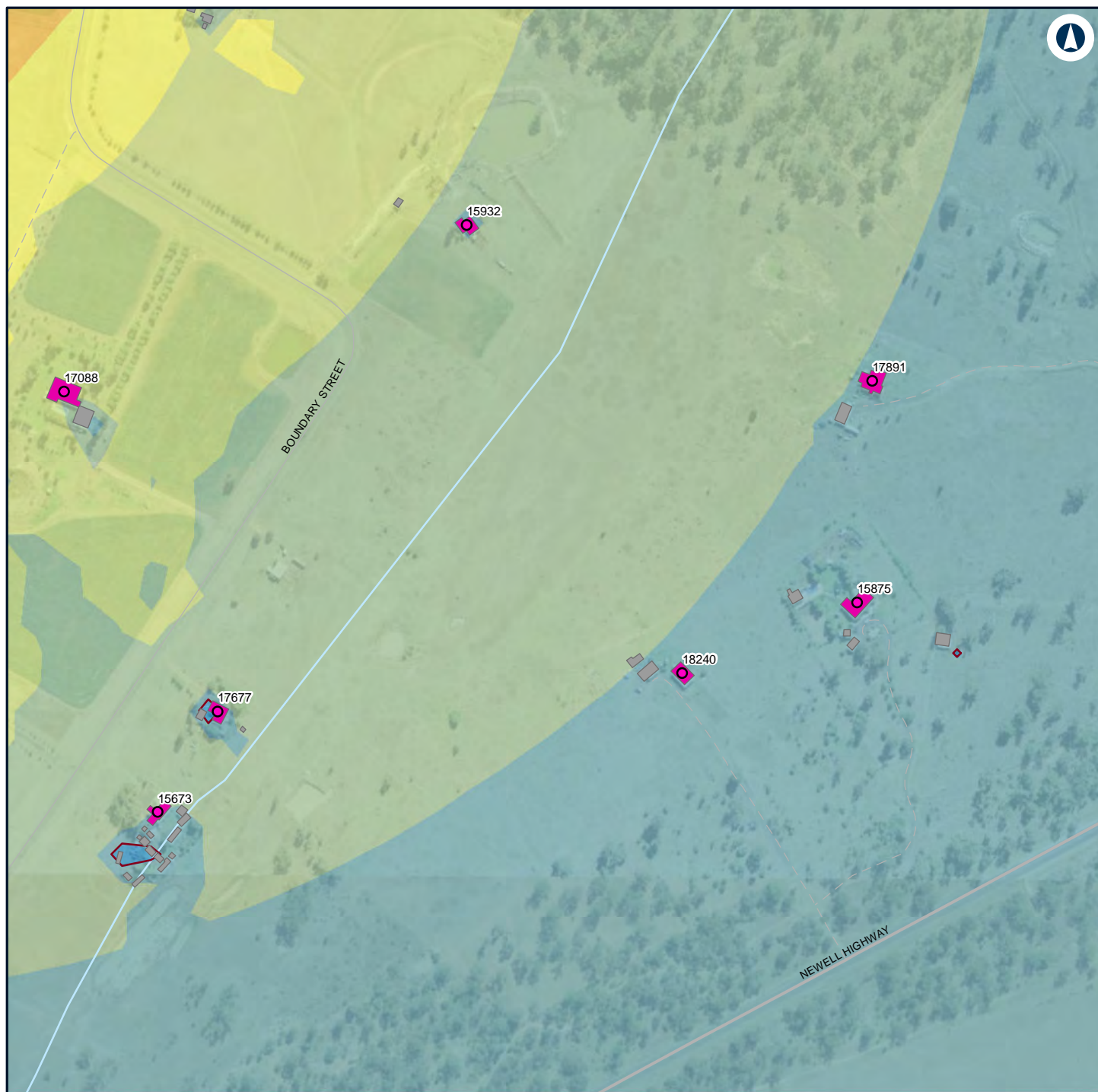
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LEGEND

Structure type

● Residential

■ Other

■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

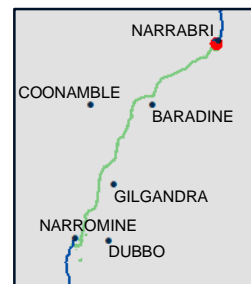
■ 35 - 40

■ 40 - 45

■ 45 - 50

■ 50 - 55

■ 55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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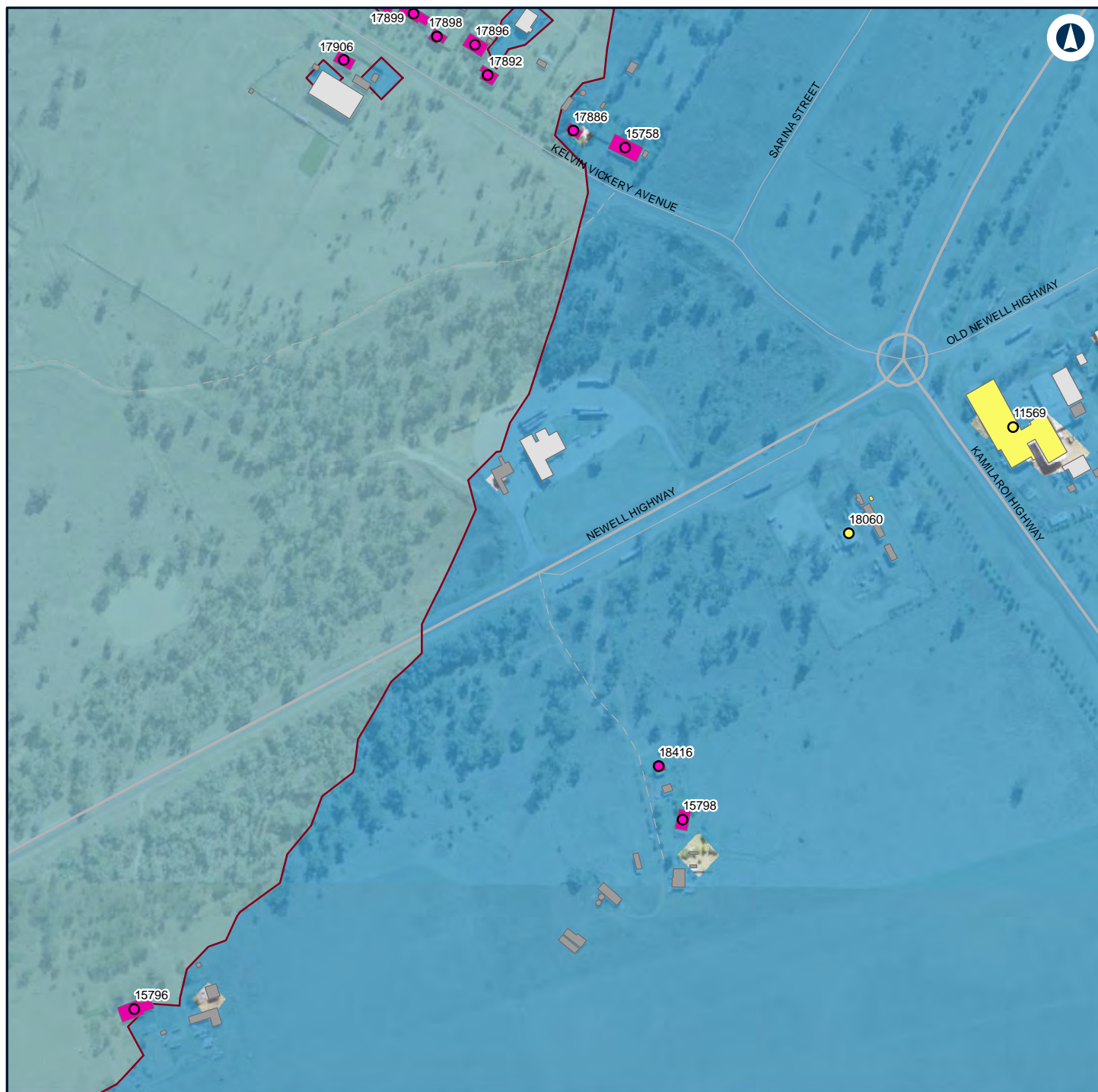
Author: GHD

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LEGEND

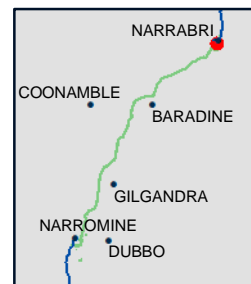
Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- 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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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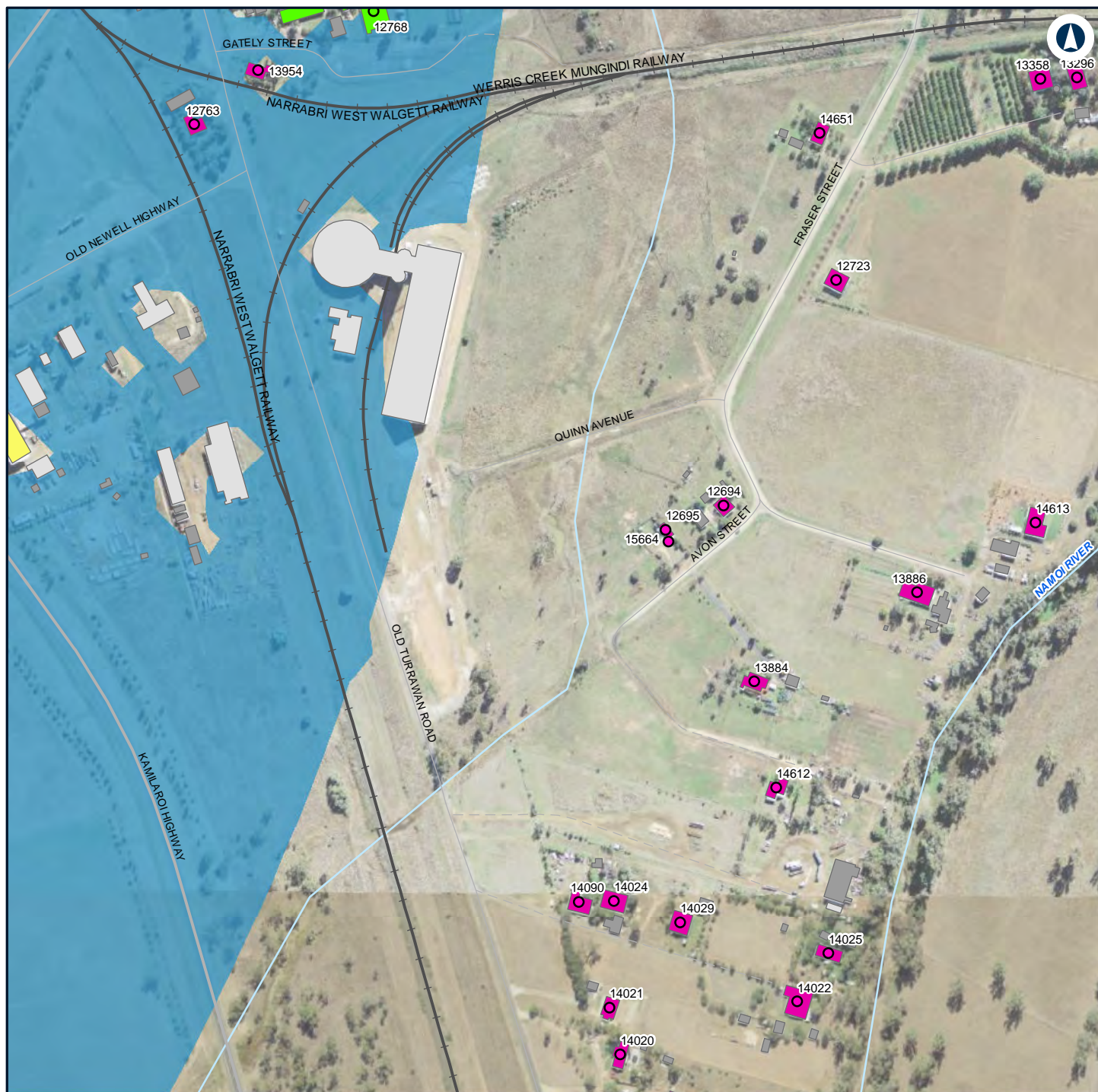
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LEGEND

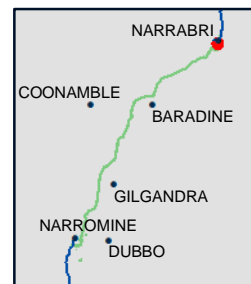
Structure type

- Educational
- Residential
- Commercial/Industrial
- Community
- Educational
- 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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0 0.1 0.2
Km

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

INLAND RAIL **ARTC**

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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

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

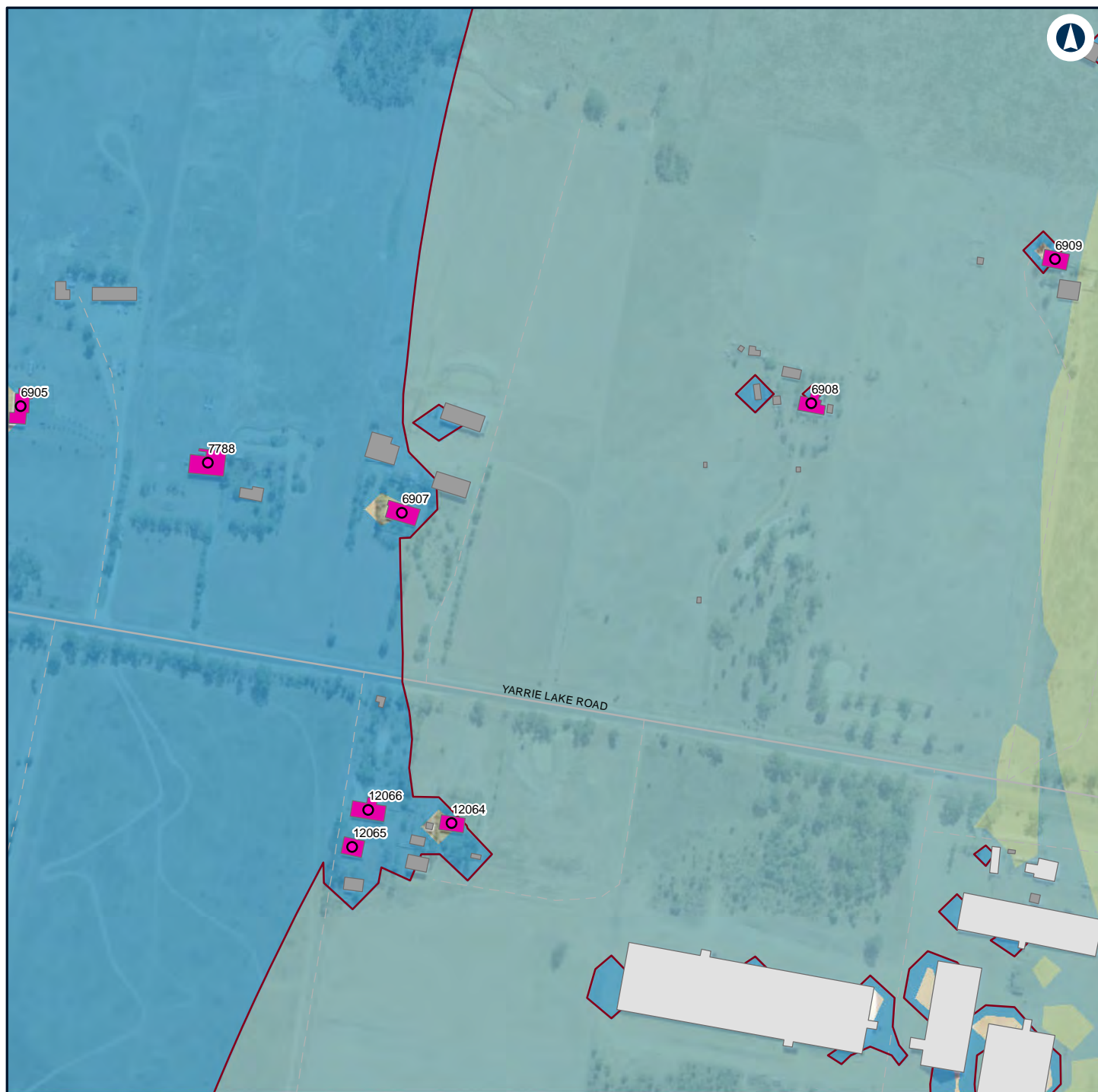
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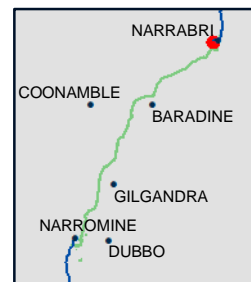
LEGEND

Structure type

- Residential
- 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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0 0.1 0.2
Km

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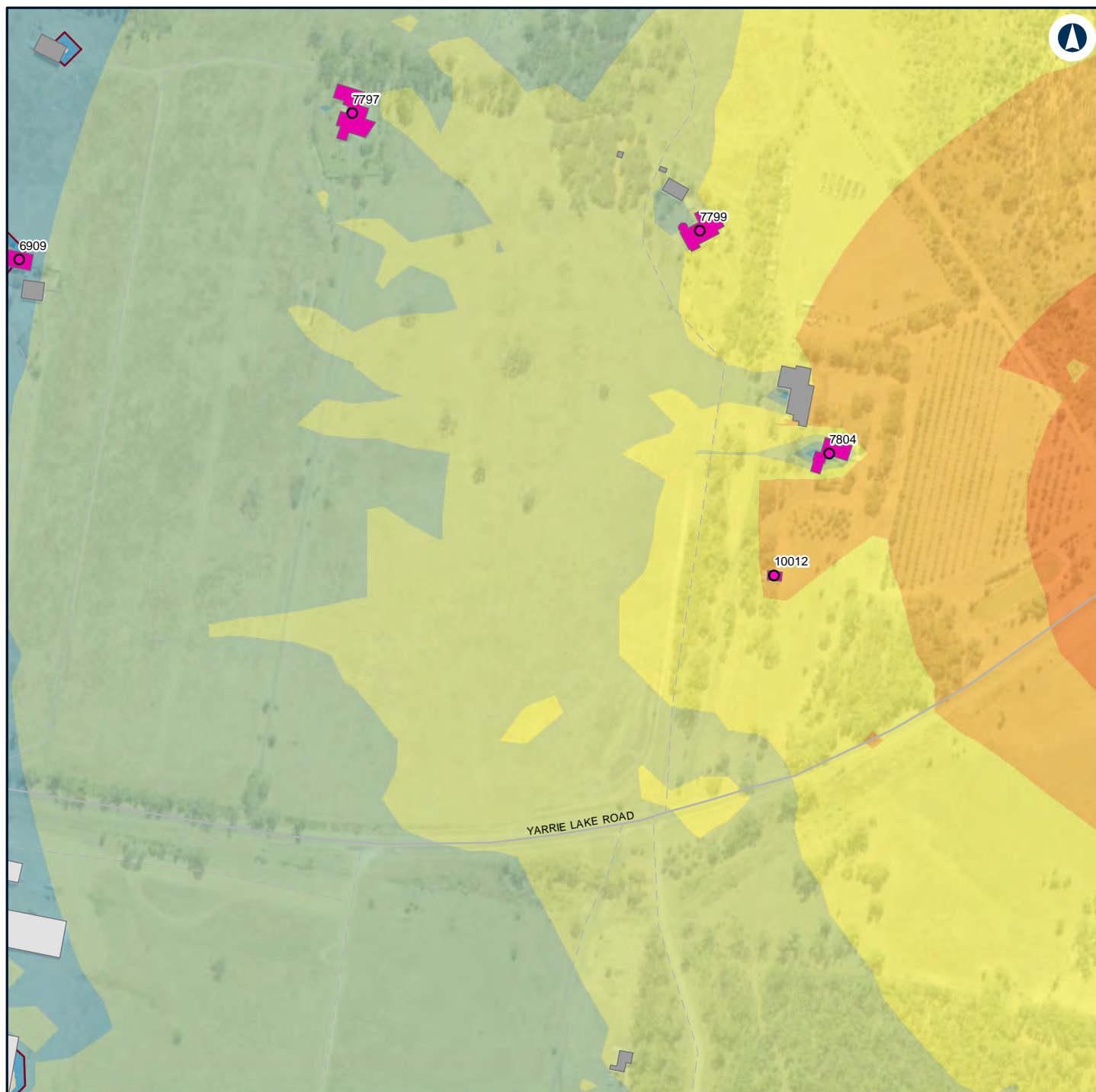
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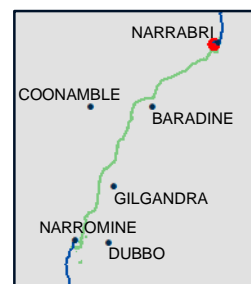
LEGEND

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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0 0.1 0.2
Km

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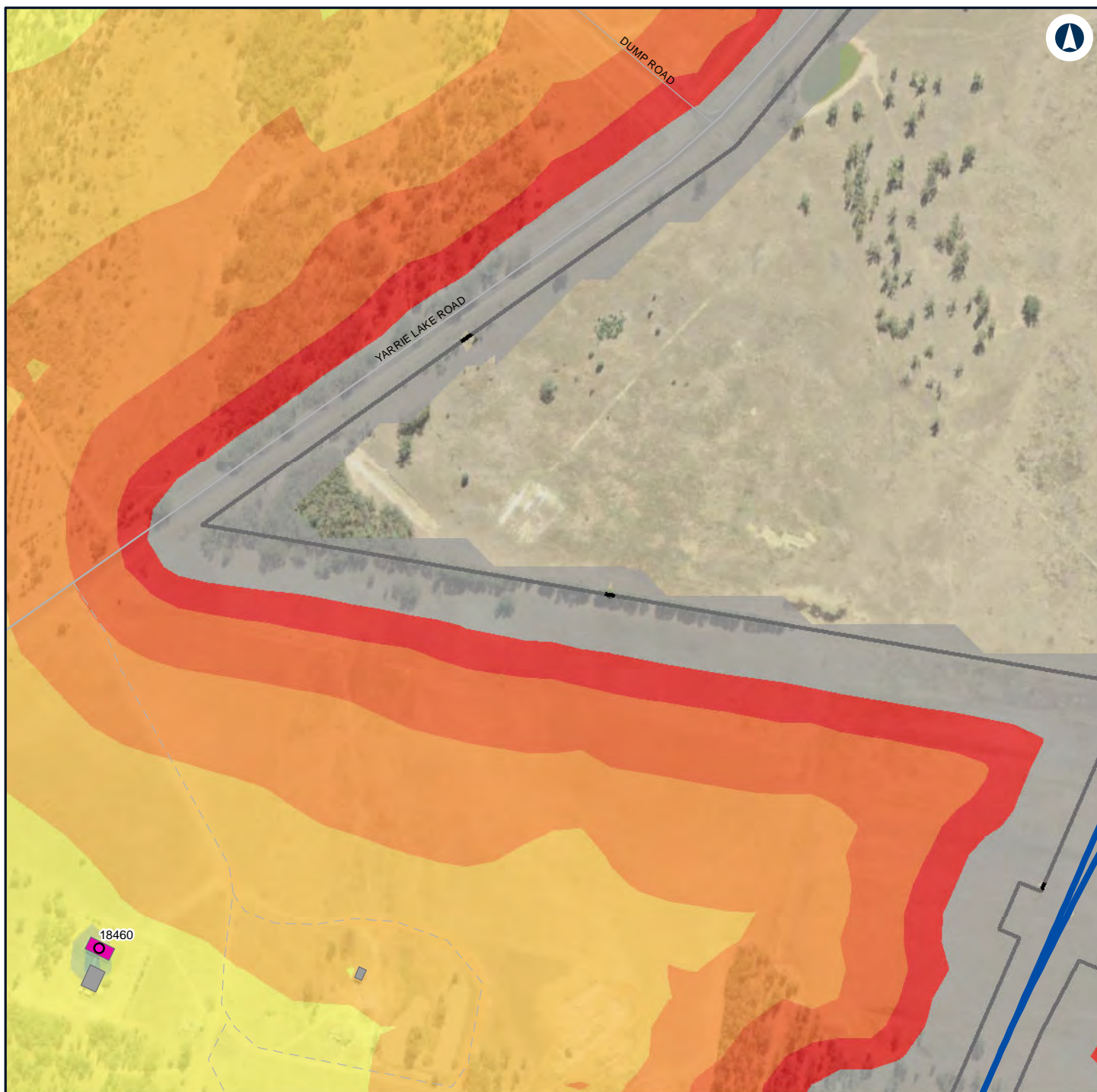
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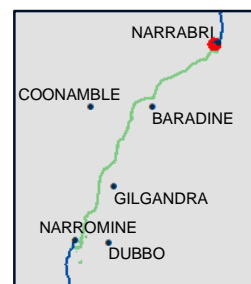
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LEGEND

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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0 0.1 0.2
Km

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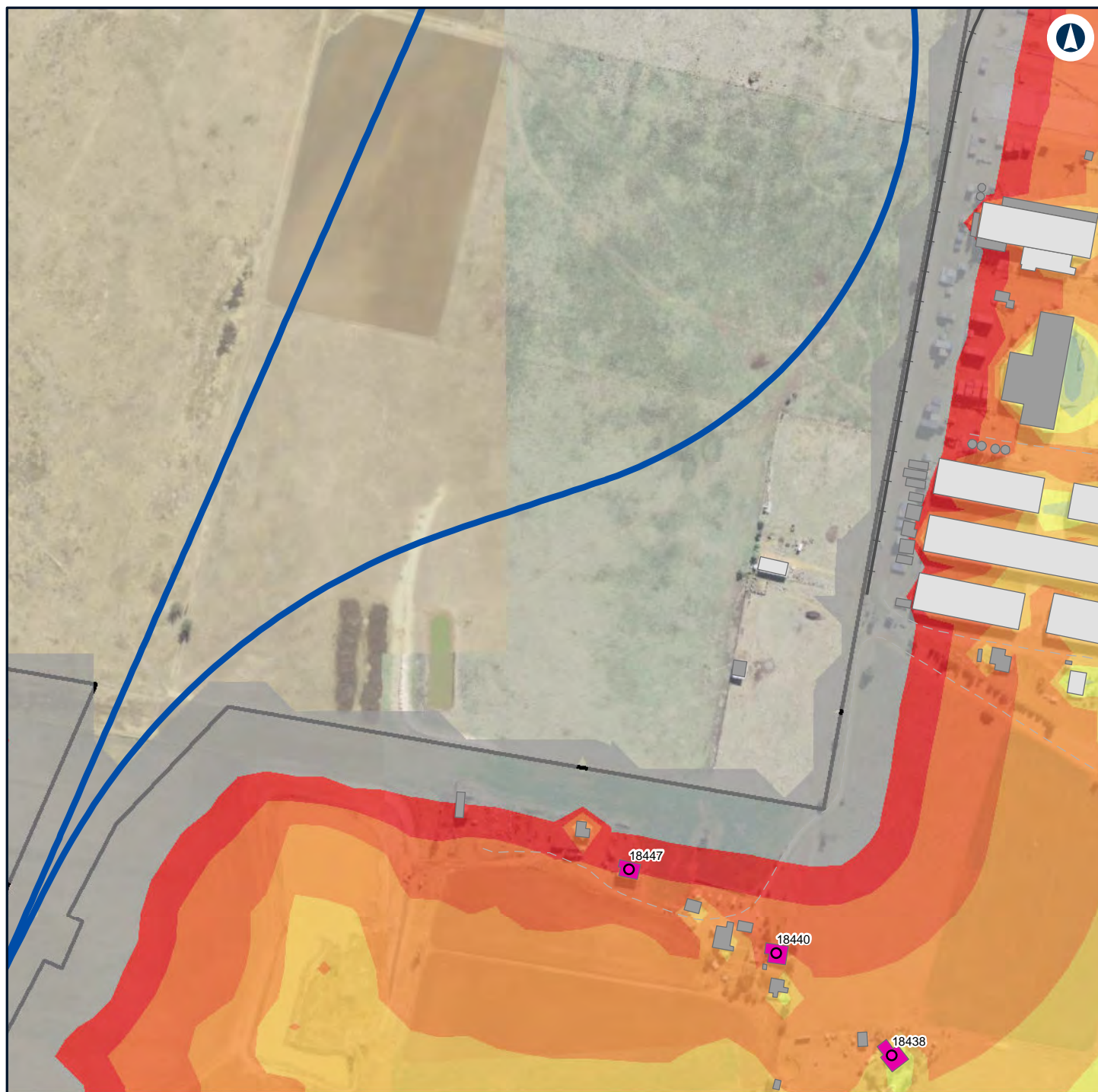
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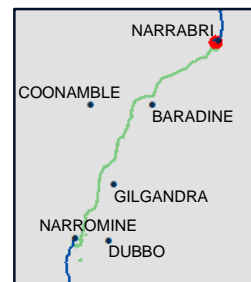
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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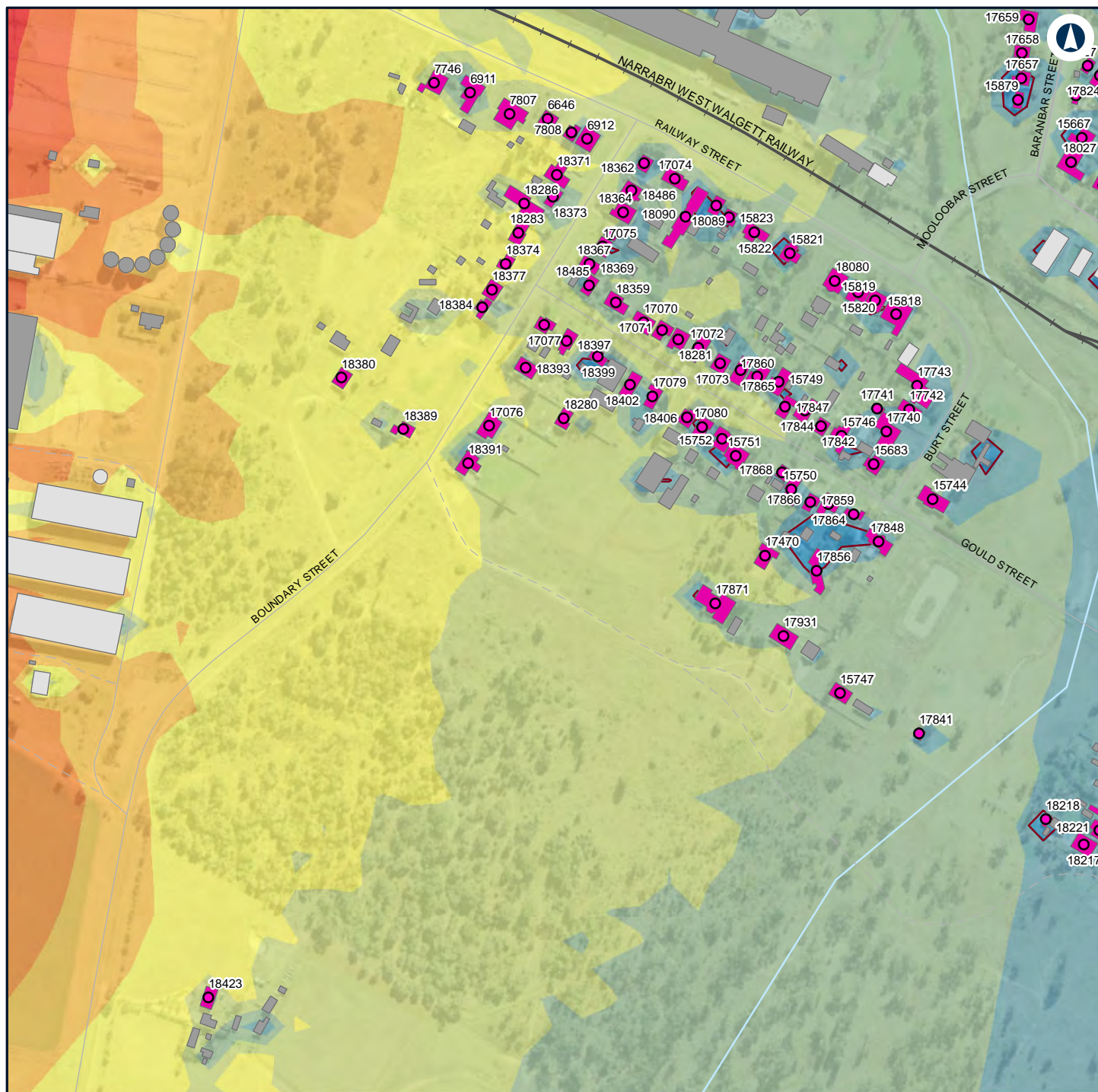
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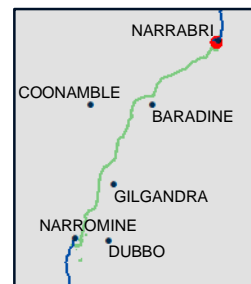
LEGEND

Structure type

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

Noise level (dBA L_{Aeq} 15 minute)

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



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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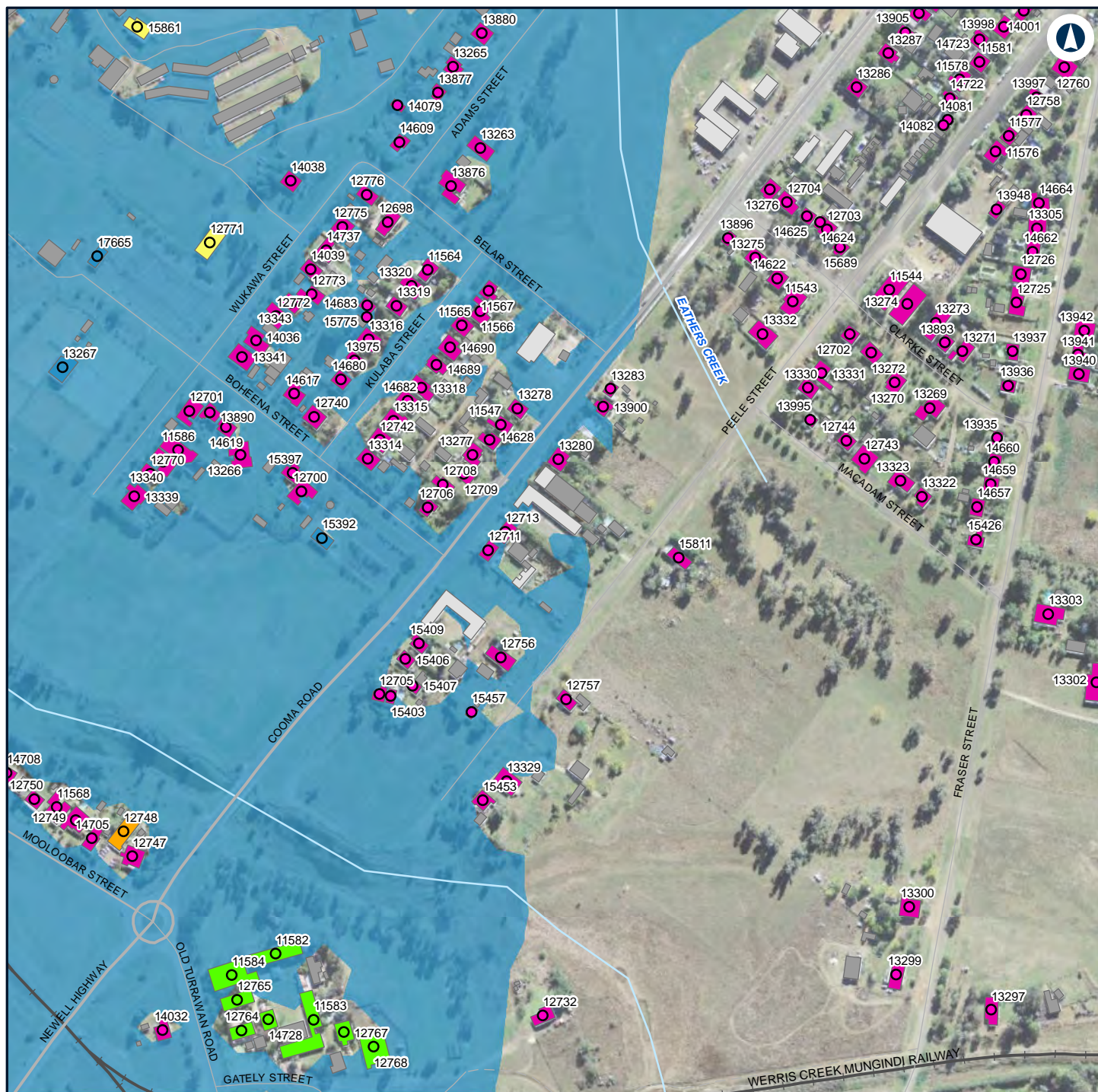
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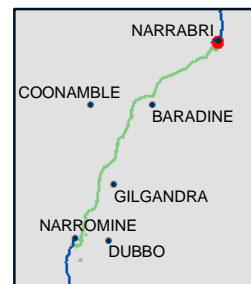
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LEGEND

Structure type		Noise level (dB A L_{Aeq} 15 minute)
Active recreation	Blue circle	30 - 35
Community	Yellow circle	
Educational	Green circle	
Residential	Pink circle	
Worship	Orange circle	
Commercial/Industrial	Grey square	
Community	Yellow square	
Educational	Green square	
Residential	Pink square	
Worship	Orange square	
Active recreation	Blue square	



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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LEGEND

Structure type

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



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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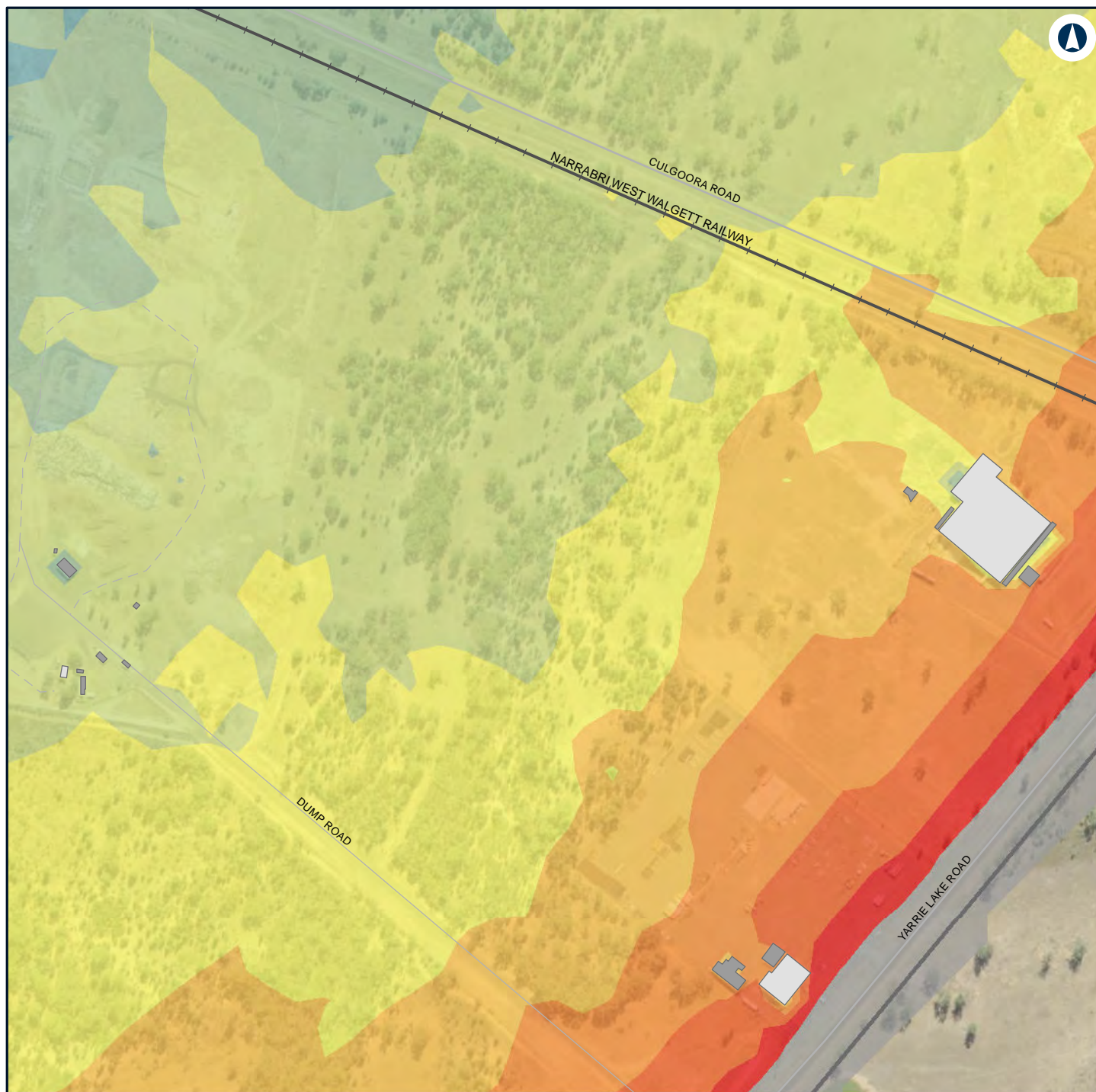
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LEGEND

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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0 0.1 0.2
Km

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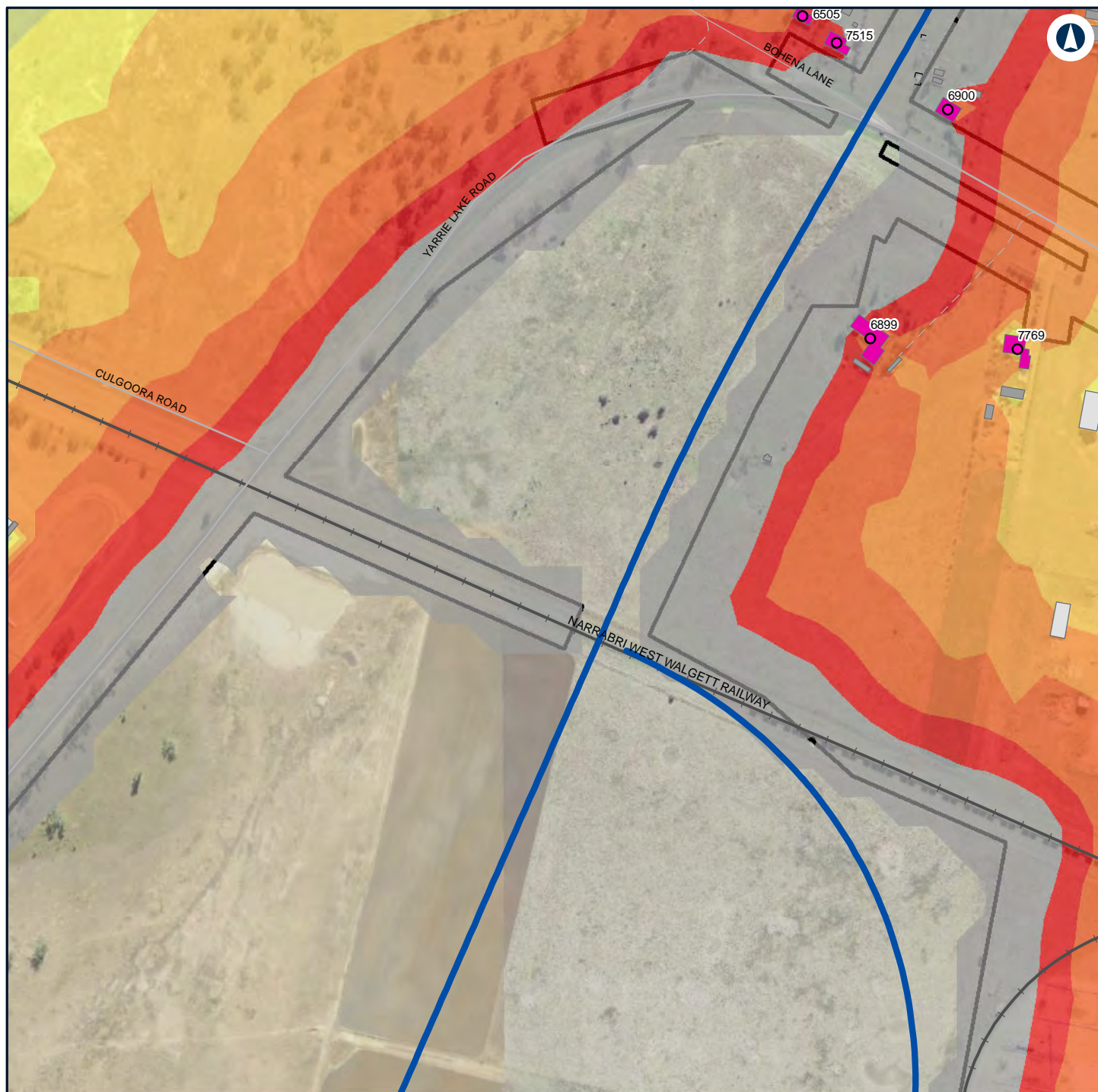
Author: GHD

Scale: 1:5,000

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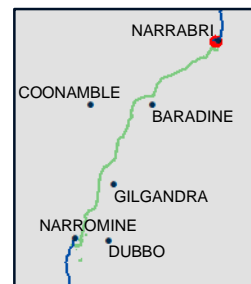
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LEGEND

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



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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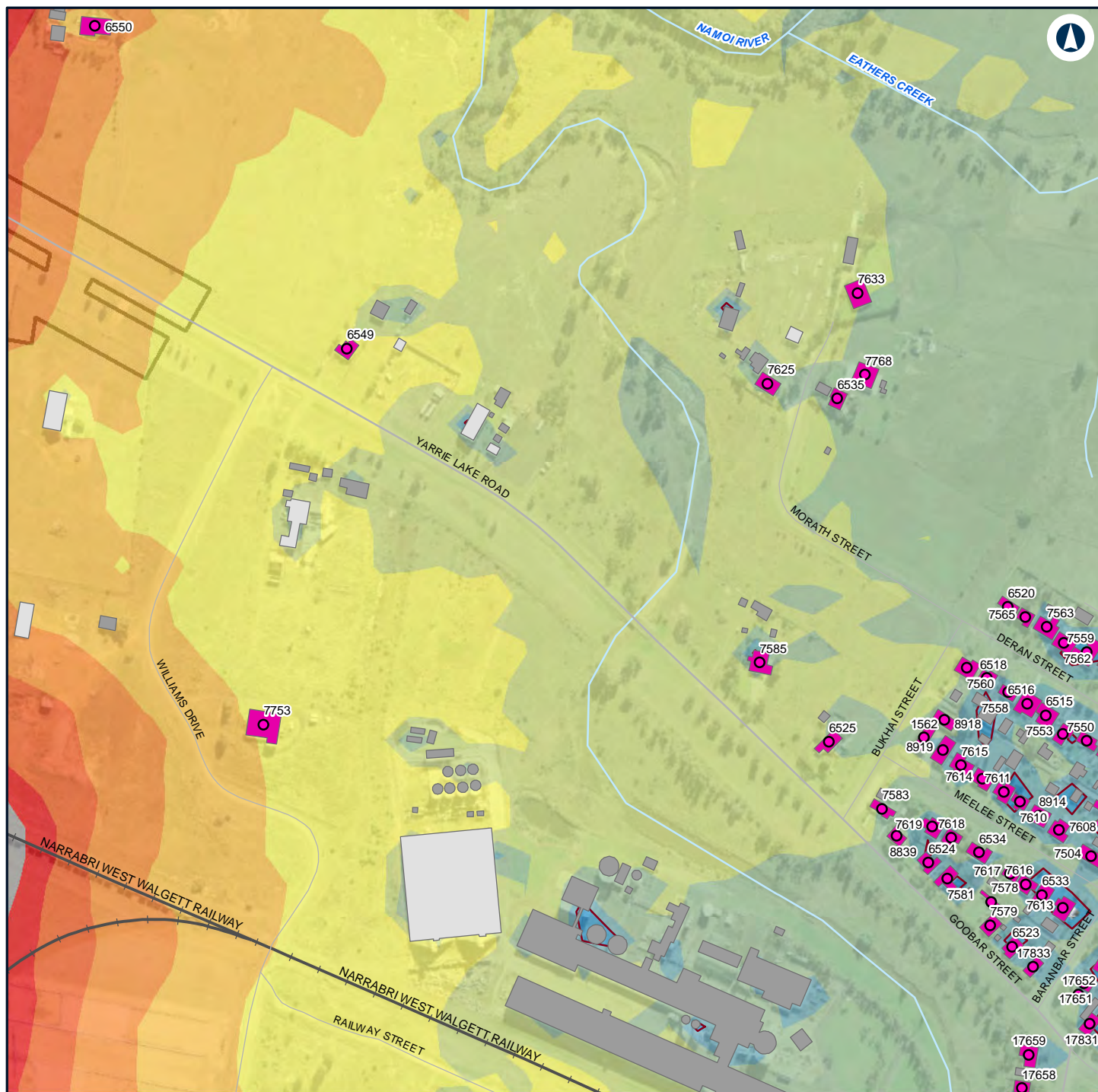
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LEGEND

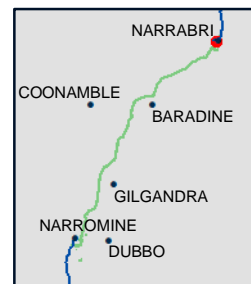
Construction footprint

Structure type

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

Noise level (dBA L_{Aeq} 15 minute)

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



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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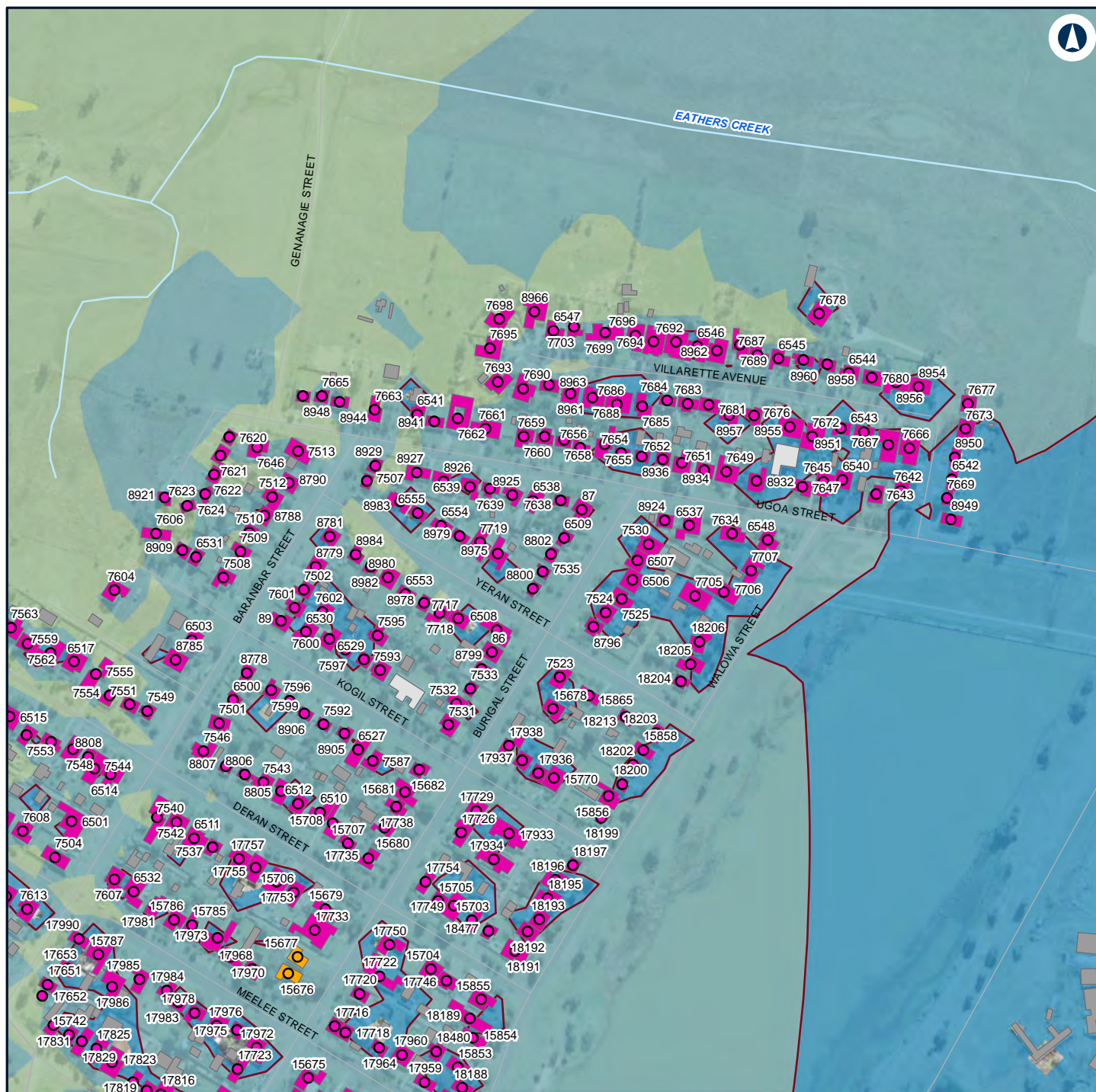
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LEGEND

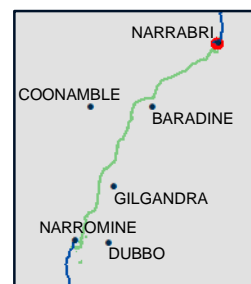
Structure type

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

— 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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0 0.1 0.2
Km

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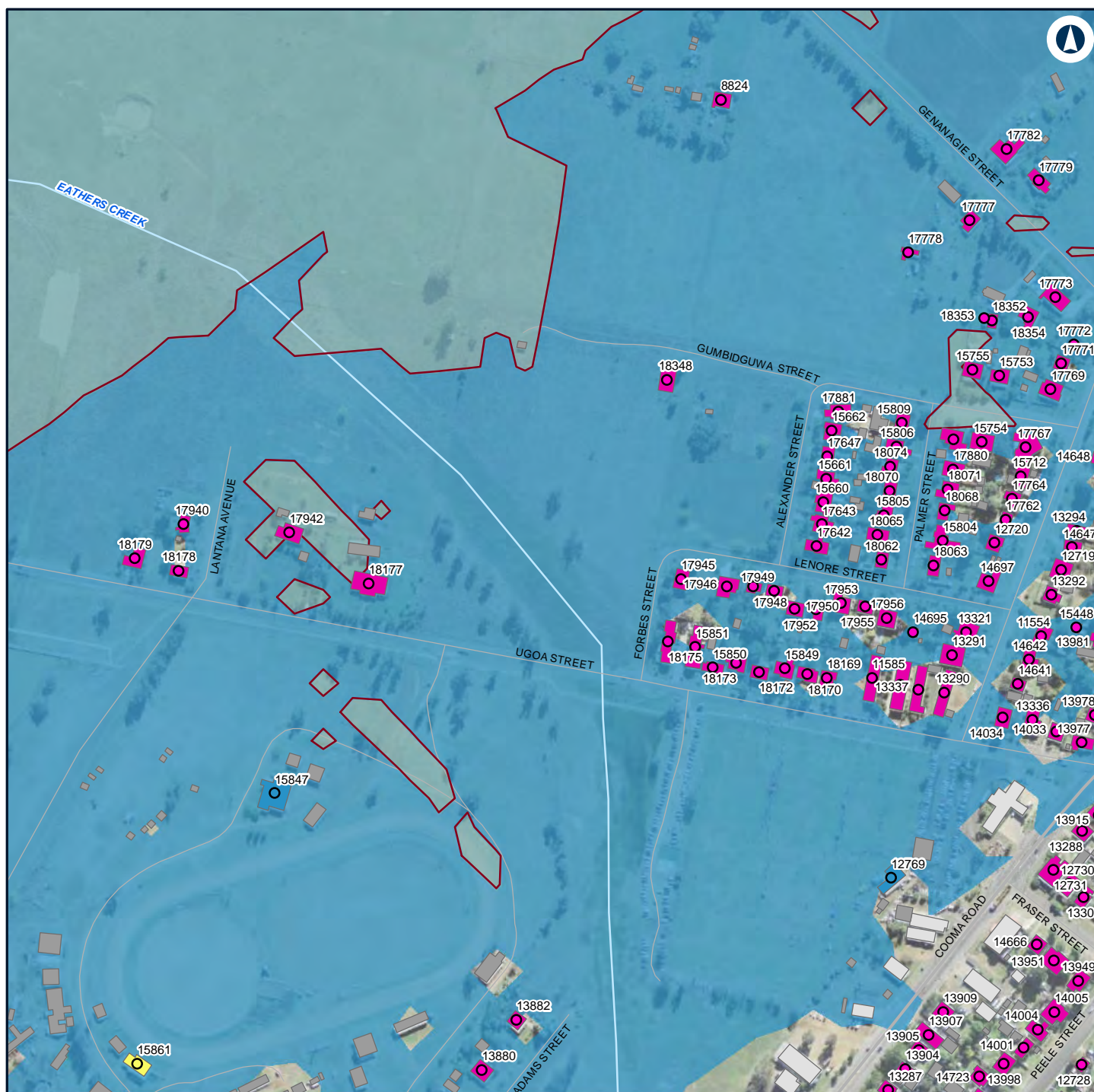
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LEGEND

Structure type

- Active recreation
- Community
- Residential

Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

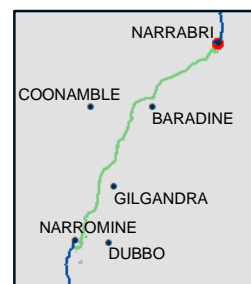
Active recreation

30 - 35

Commercial/Industrial

35 - 40

Community



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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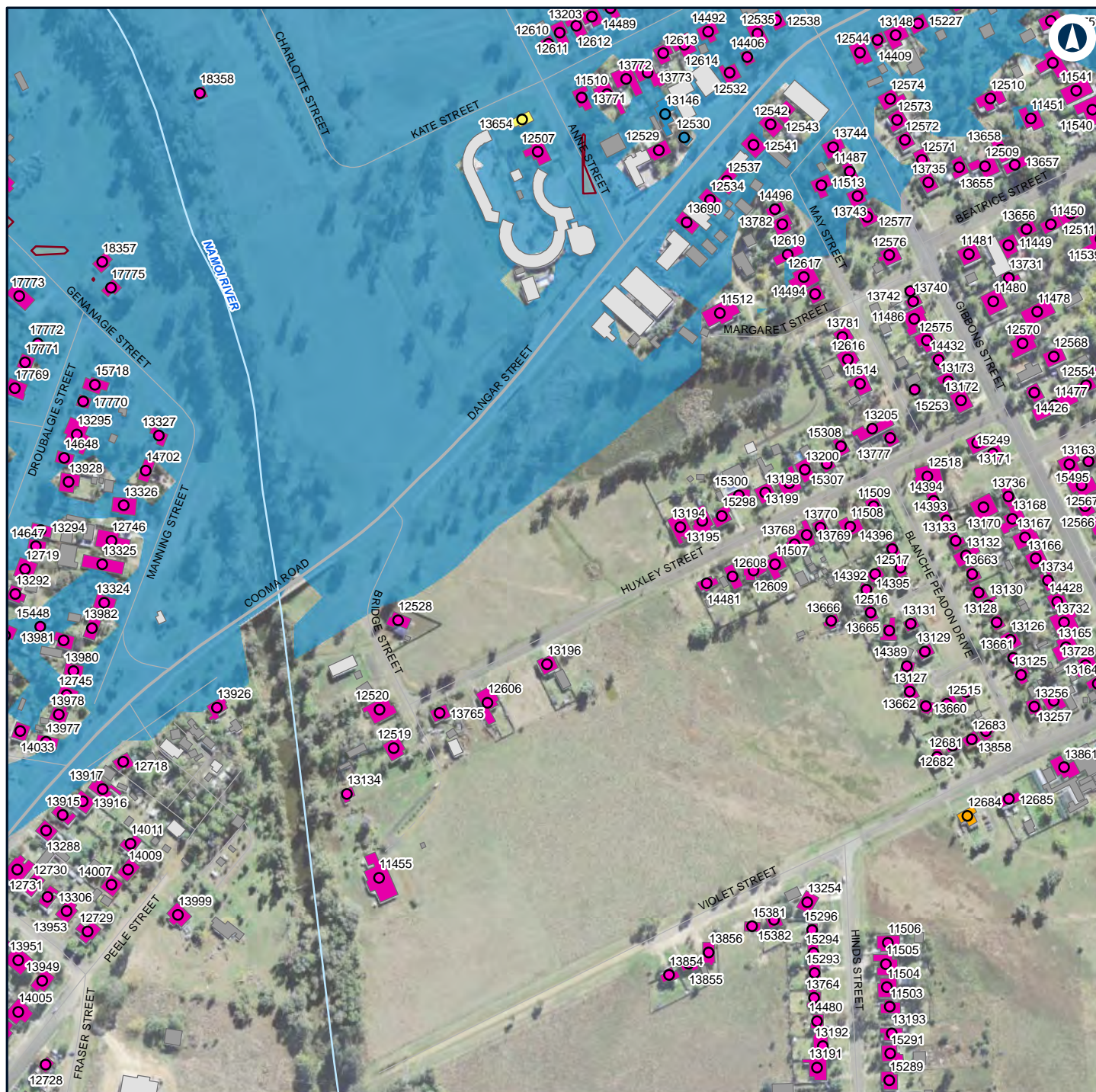
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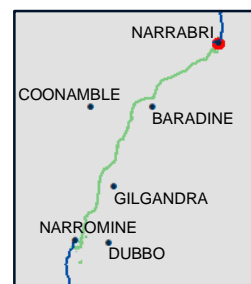
LEGEND

Structure type

- Active recreation
- Community
- Residential
- Worship
- Active recreation
- Commercial/Industrial
- Community
- Other
- Residential
- Worship
- 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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0 0.1 0.2
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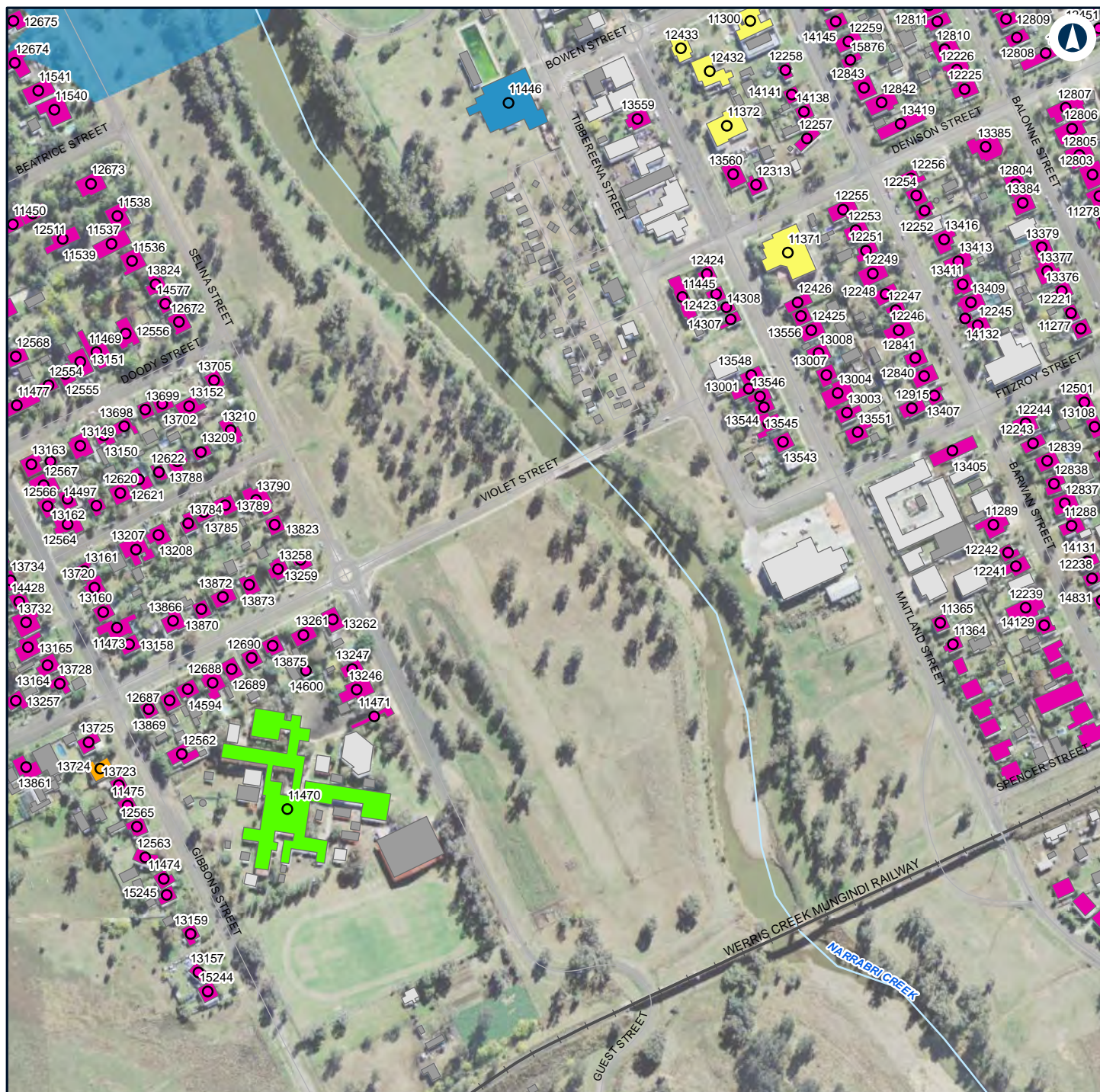
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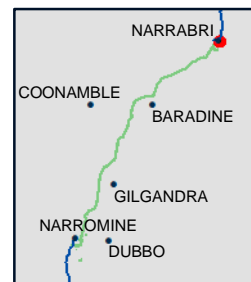
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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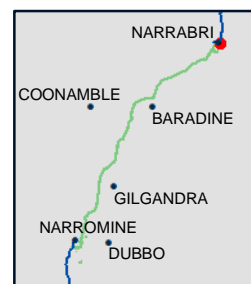
LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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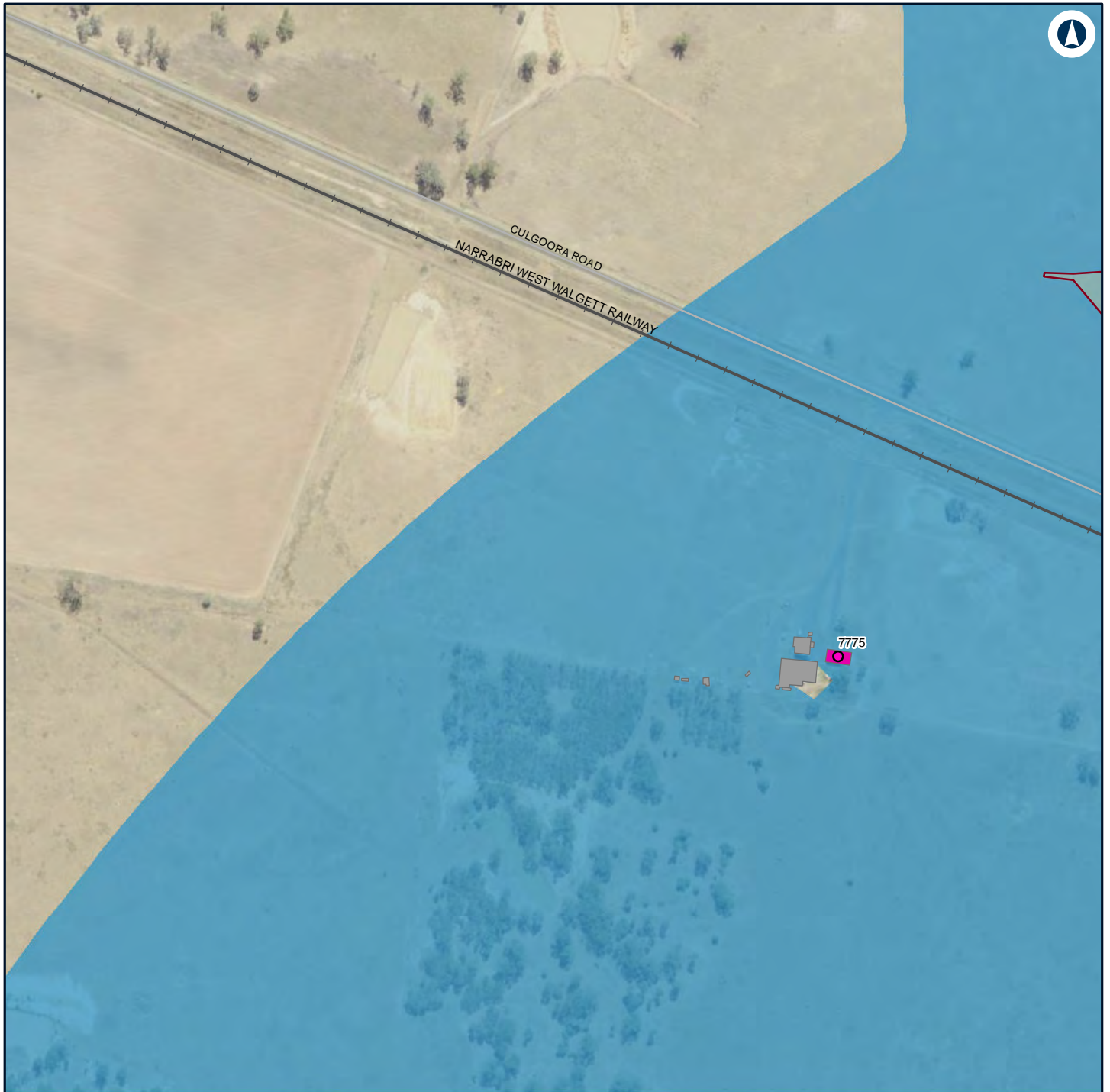
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LEGEND

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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0 0.1 0.2
Km

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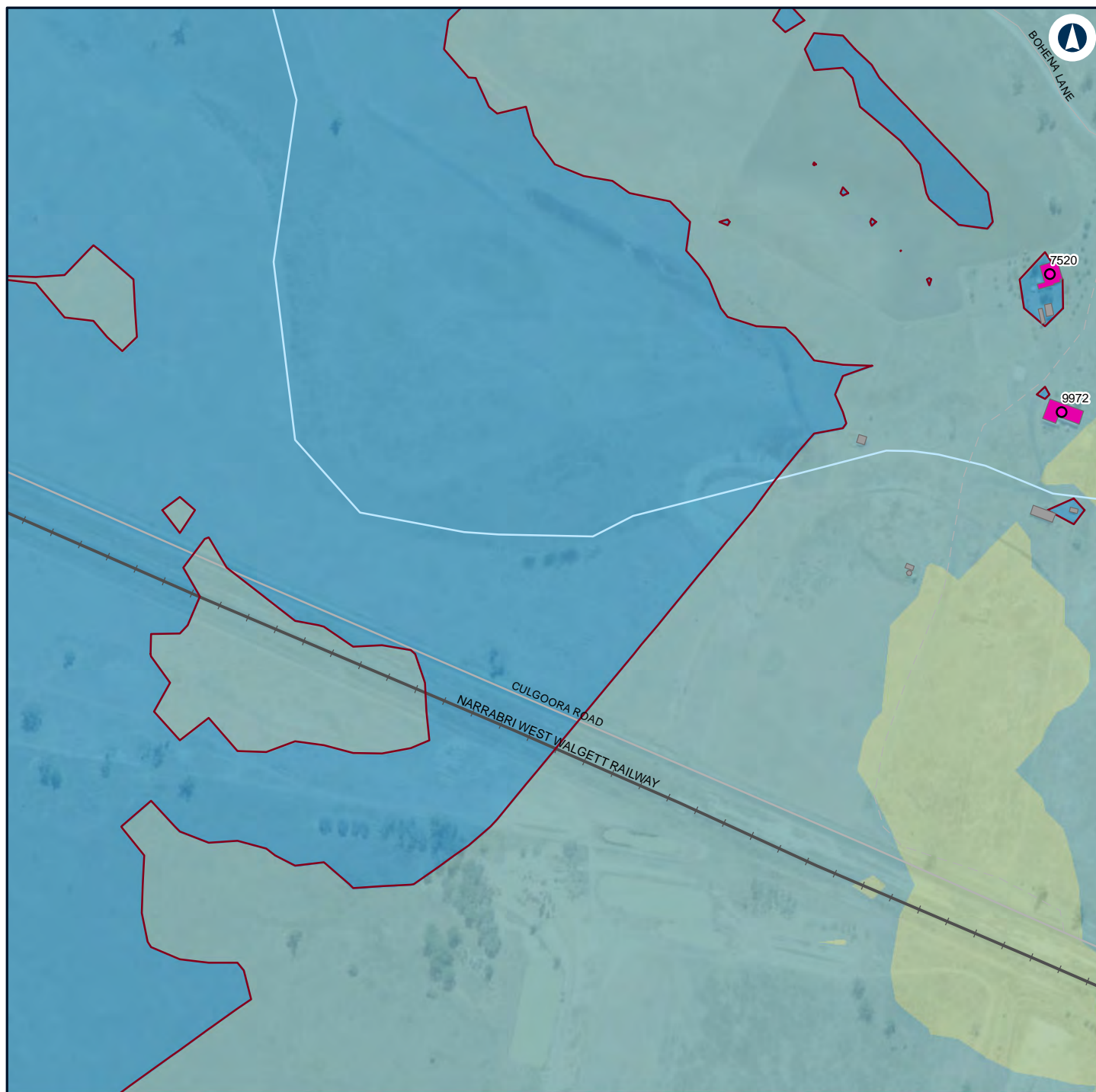
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LEGEND

Structure type

Residential

Other

Residential

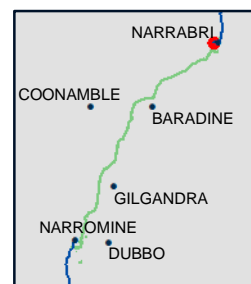
Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

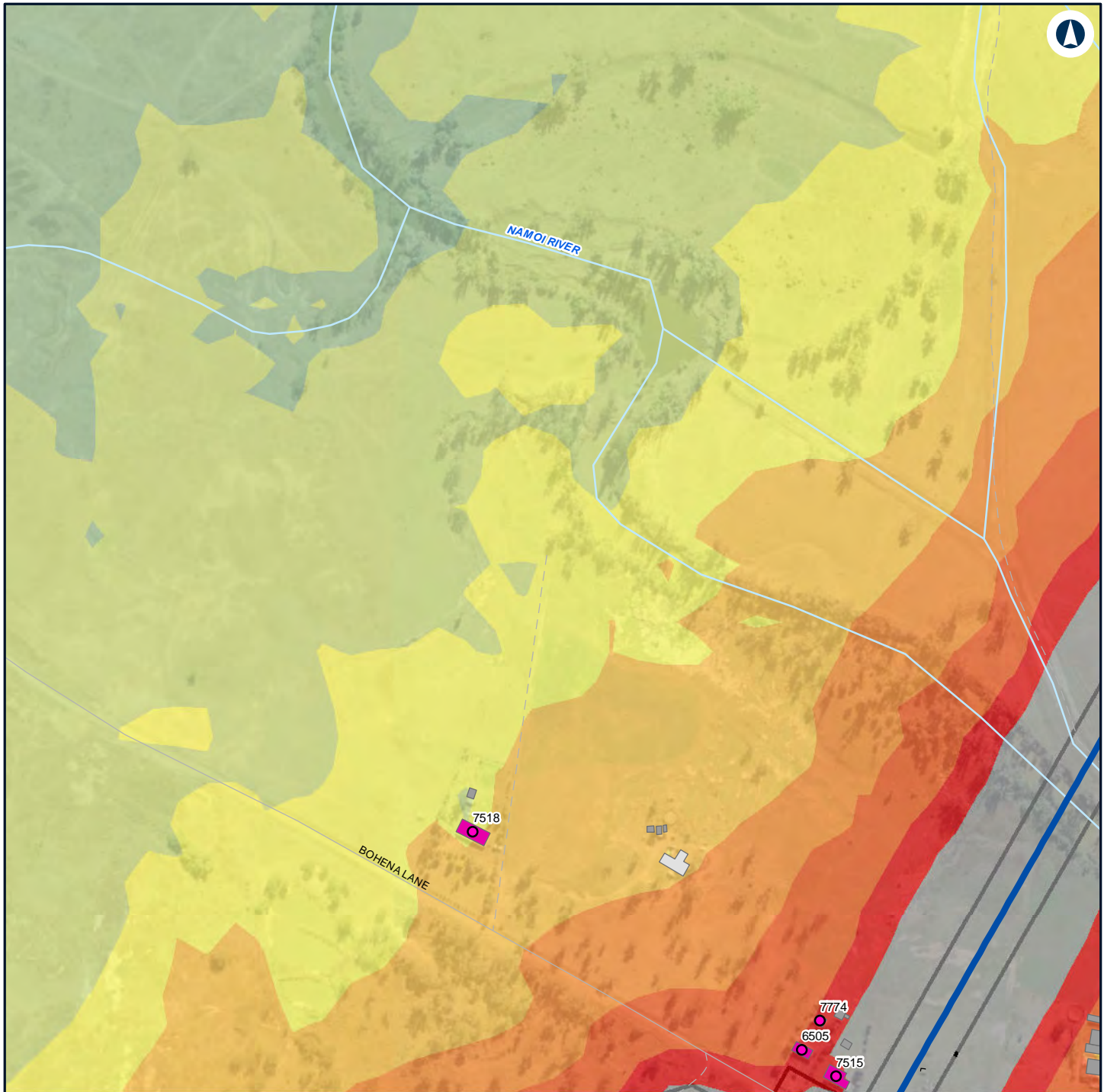
Author: GHD

Scale: 1:5,000

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

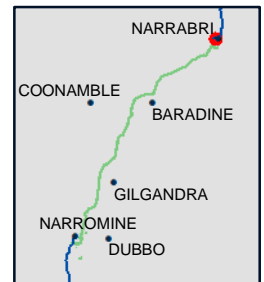
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LEGEND

	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

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0 0.1 0.2
Km

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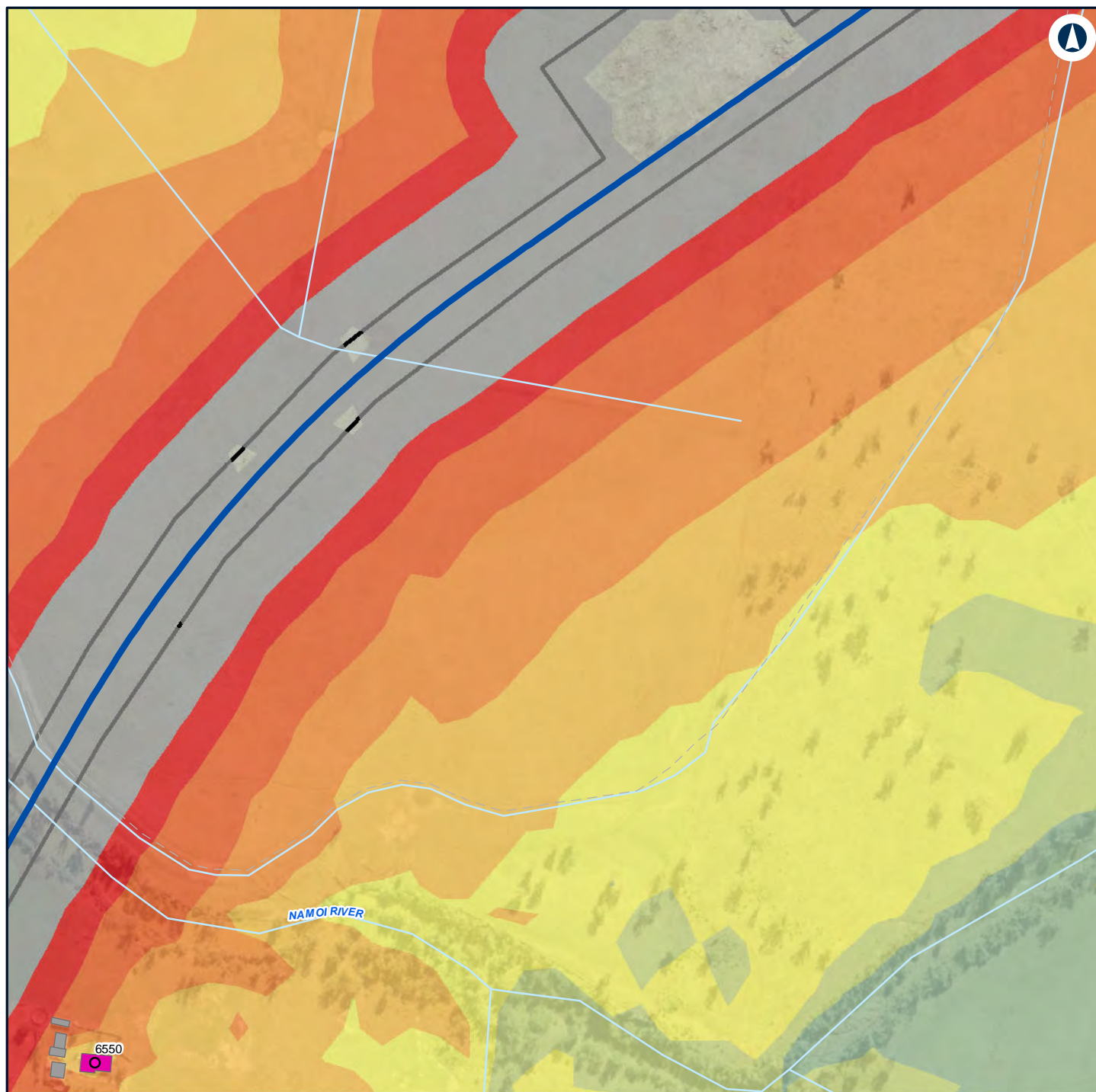
Author: GHD

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)		70 - 75
Structure type				> 75 noise level color swatch"/>
	Residential	40 - 45	45 - 50	
	Other	50 - 55	55 - 60	
	Residential	60 - 65	65 - 70	
	Alignment			



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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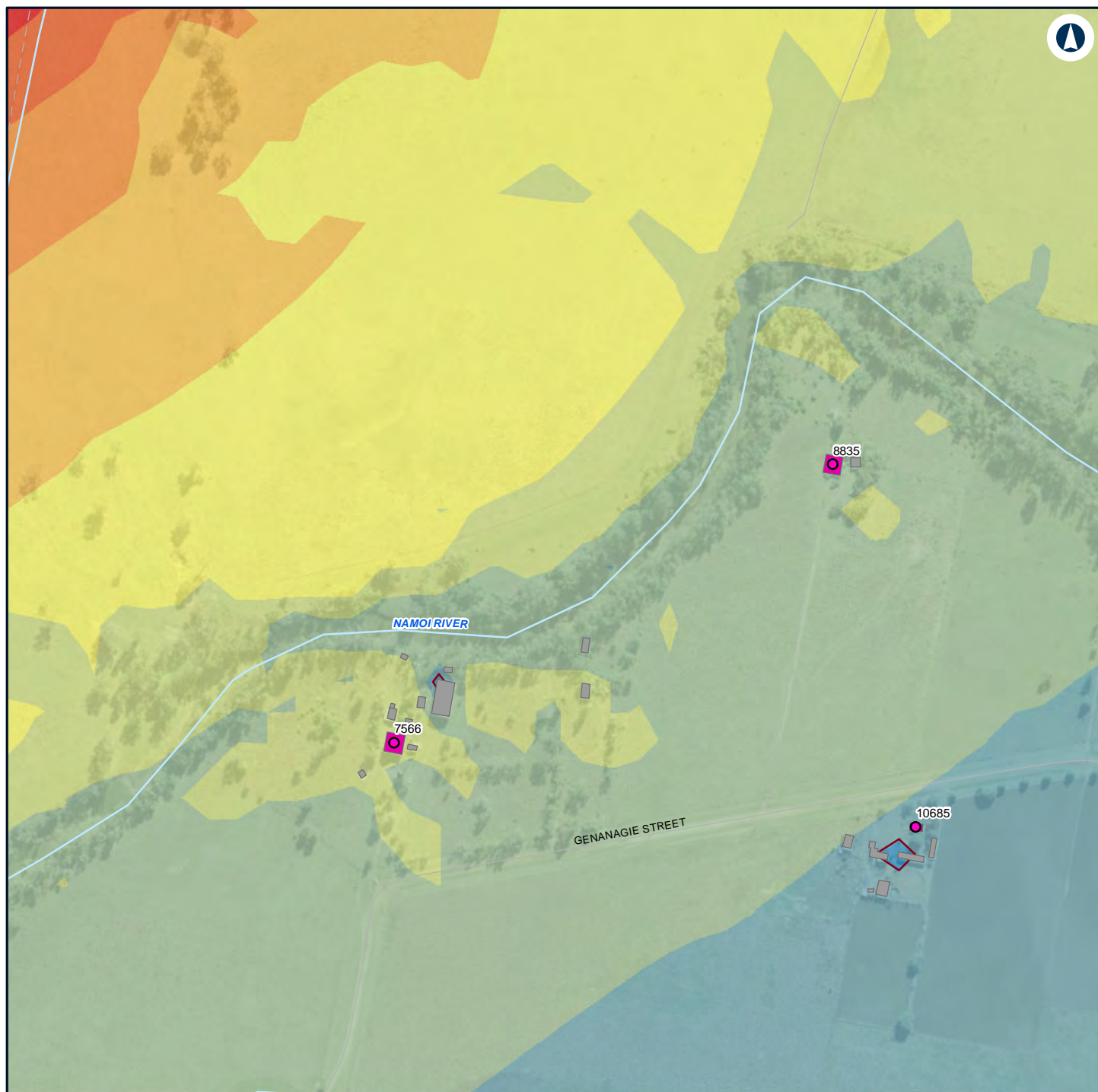
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

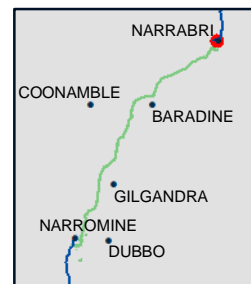
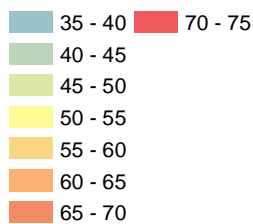
Other

Residential

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2 Km

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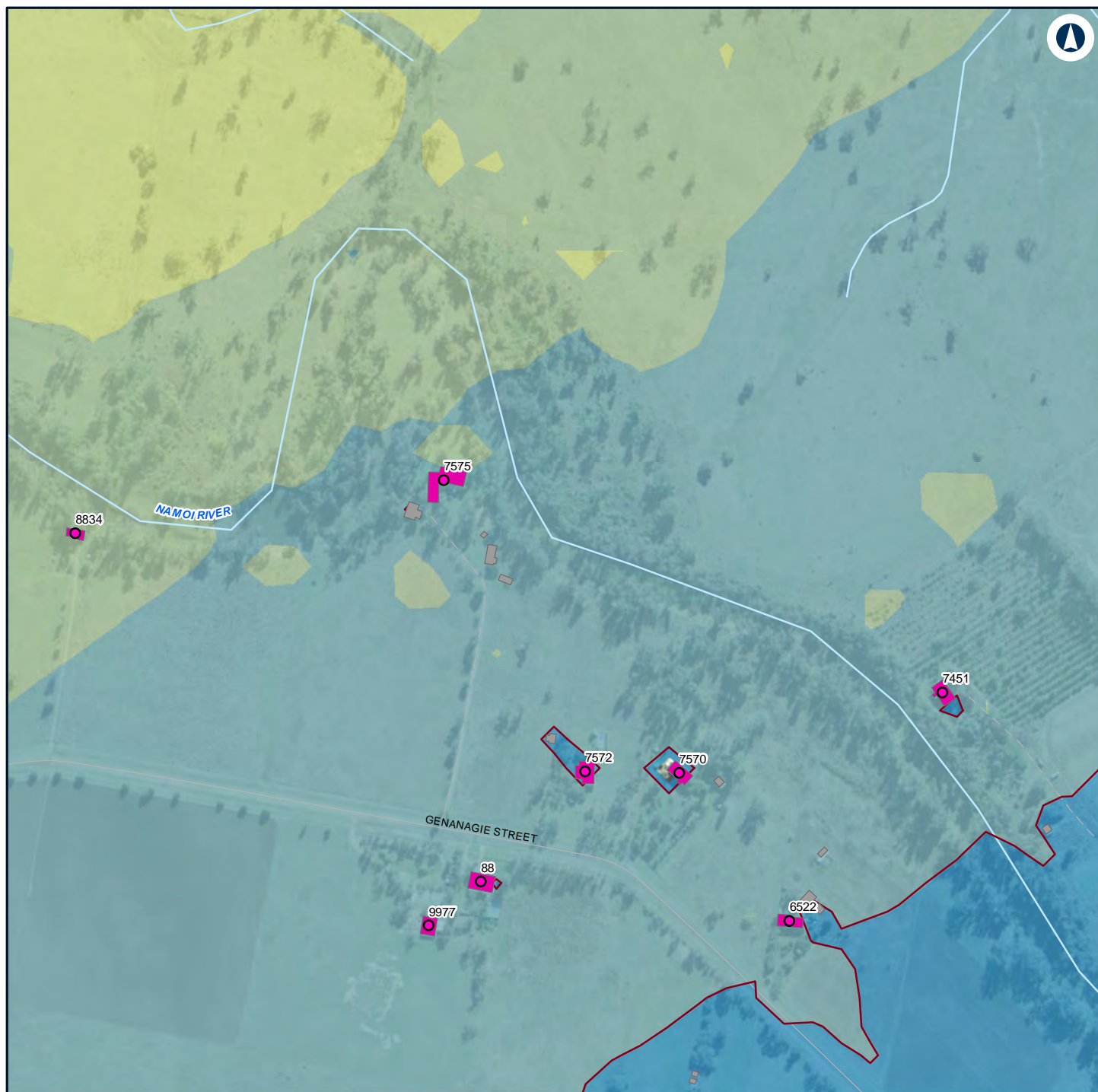
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Other

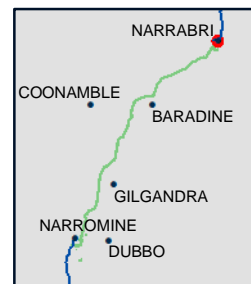
■ Residential

— Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

■ 30 - 35

■ 35 - 40
■ 40 - 45
■ 45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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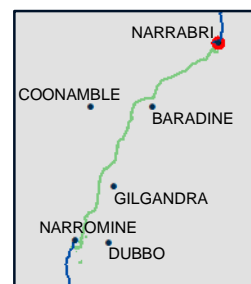
LEGEND

Structure type

- Active recreation
- Child care facility
- Health
- Passive recreation
- Residential
- Active recreation
- Child care facility
- Commercial/Industrial
- Health
- 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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0 0.1 0.2
Km

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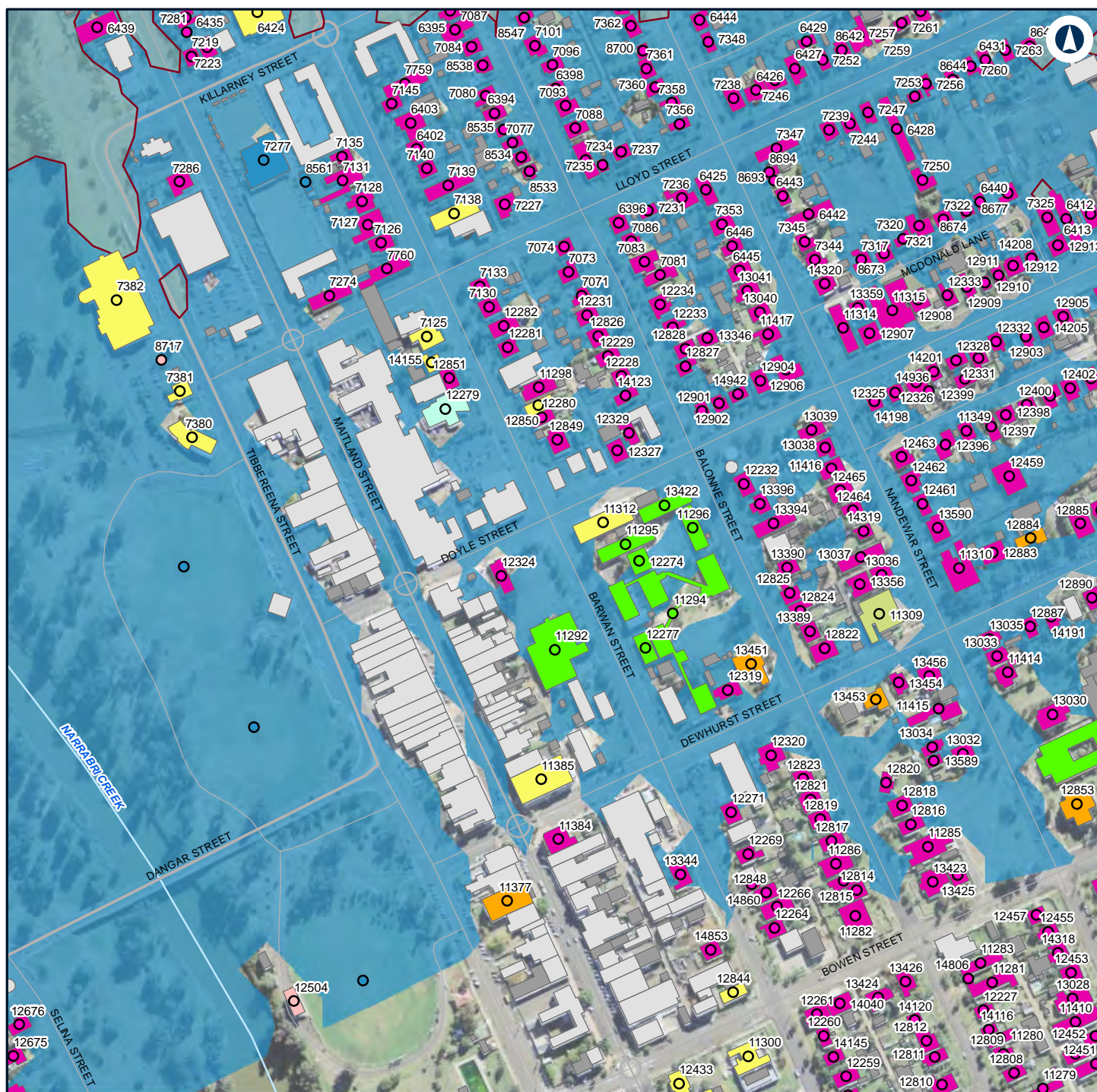
Author: GHD

Scale: 1:5,000

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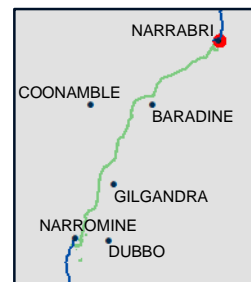
LEGEND

Structure type

- | | | |
|-----------------------|-------------------------|-------------------------------------|
| ● Active recreation | ● Residential | ■ Health |
| ● Child care facility | ● Worship | ■ Other |
| ● Community | ■ Active recreation | ■ Passive recreation |
| ● Educational | ■ Child care facility | ■ Residential |
| ○ Health | ■ Commercial/Industrial | ■ Worship |
| ○ Passive recreation | ■ Community | — Night-time noise management level |
| | ■ Educational | |

Noise level (dBA L_{Aeq} 15 minute)

- | |
|-----------|
| ■ 30 - 35 |
| ■ 35 - 40 |



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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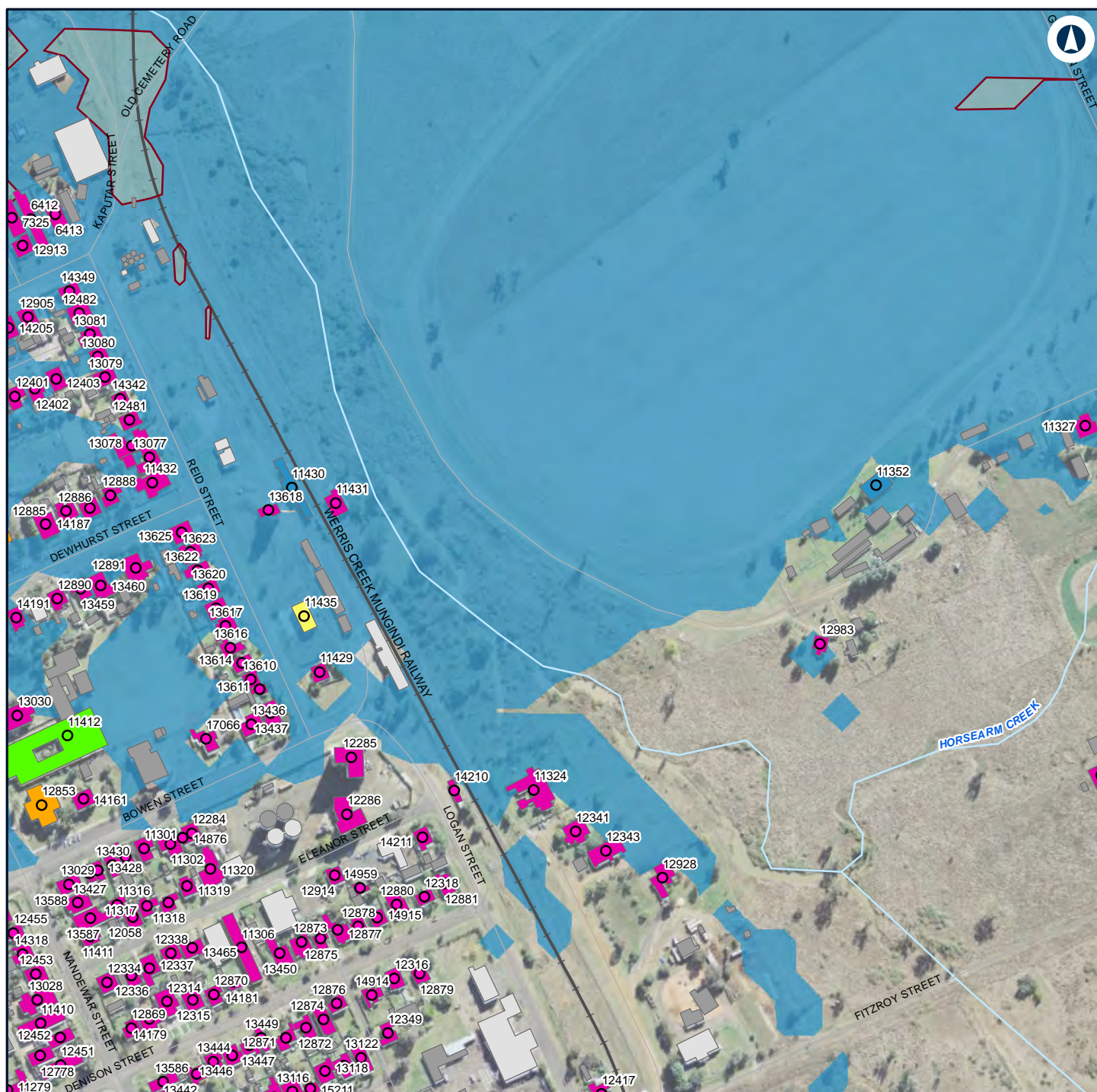
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Scale: 1:5,000

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

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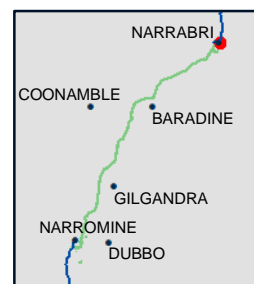
LEGEND

Structure type

- Active recreation
- Community
- Educational
- Residential
- Worship
- Commercial/Industrial
- Community
- Educational
- Other
- Residential
- Worship
- 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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0 0.1 0.2
Km

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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

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0 0.1 0.2
Km

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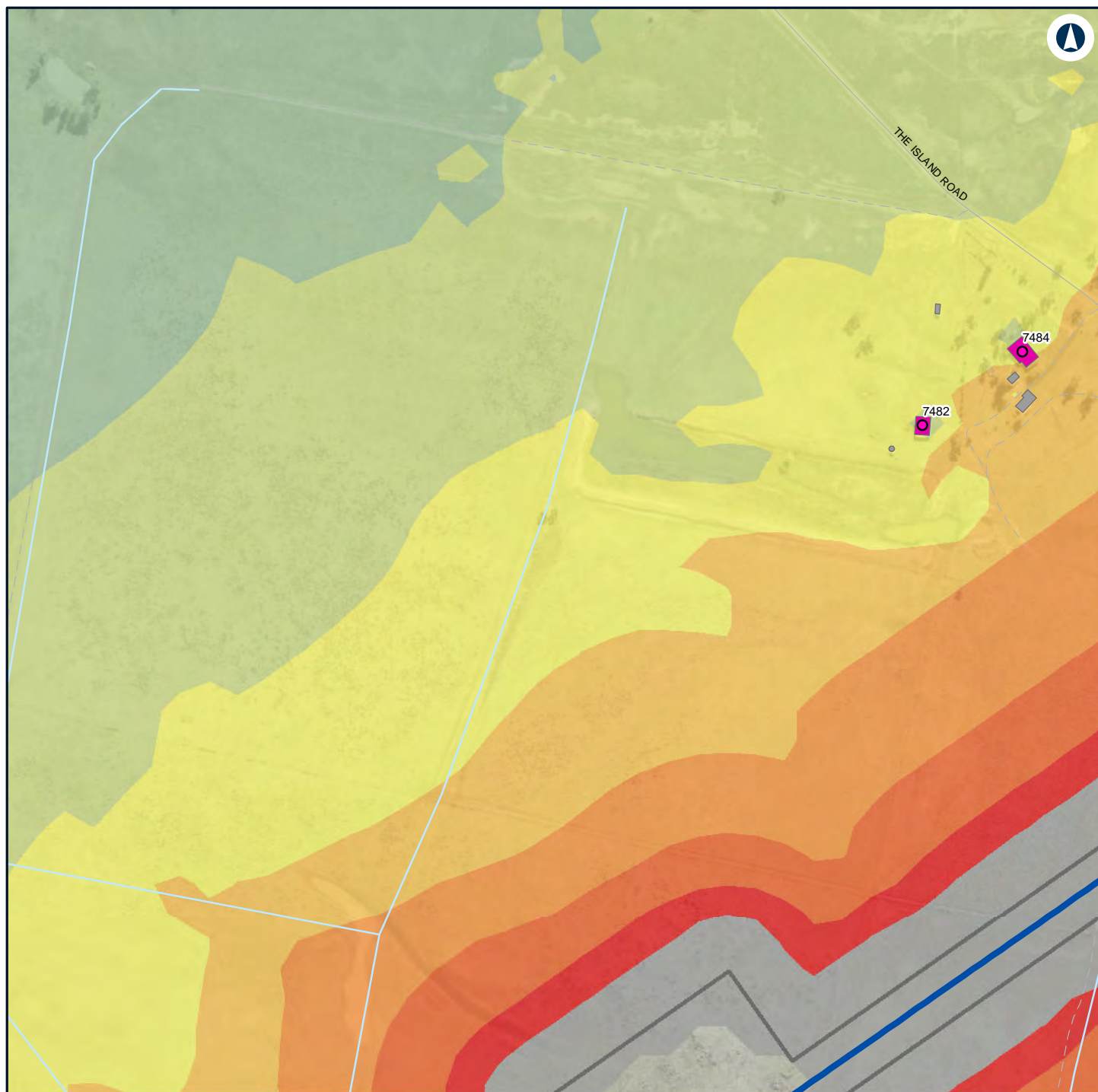
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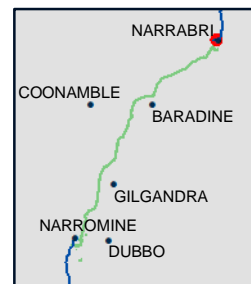
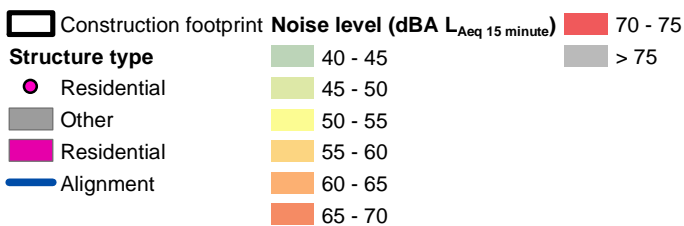
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LEGEND



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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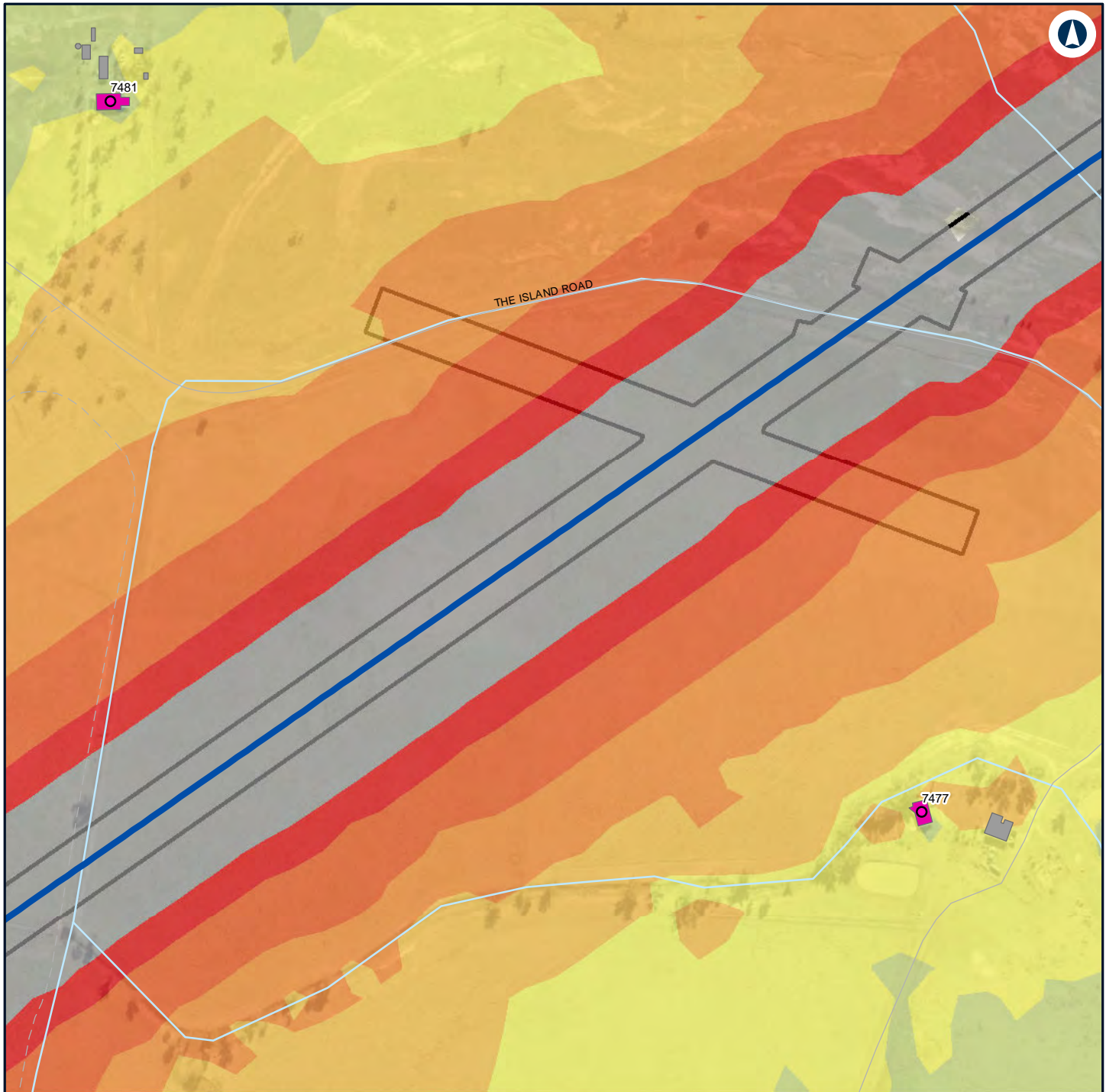
Author: GHD

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)		70 - 75
Structure type				> 75
	Residential			
	Other			
	Residential			
	Alignment			



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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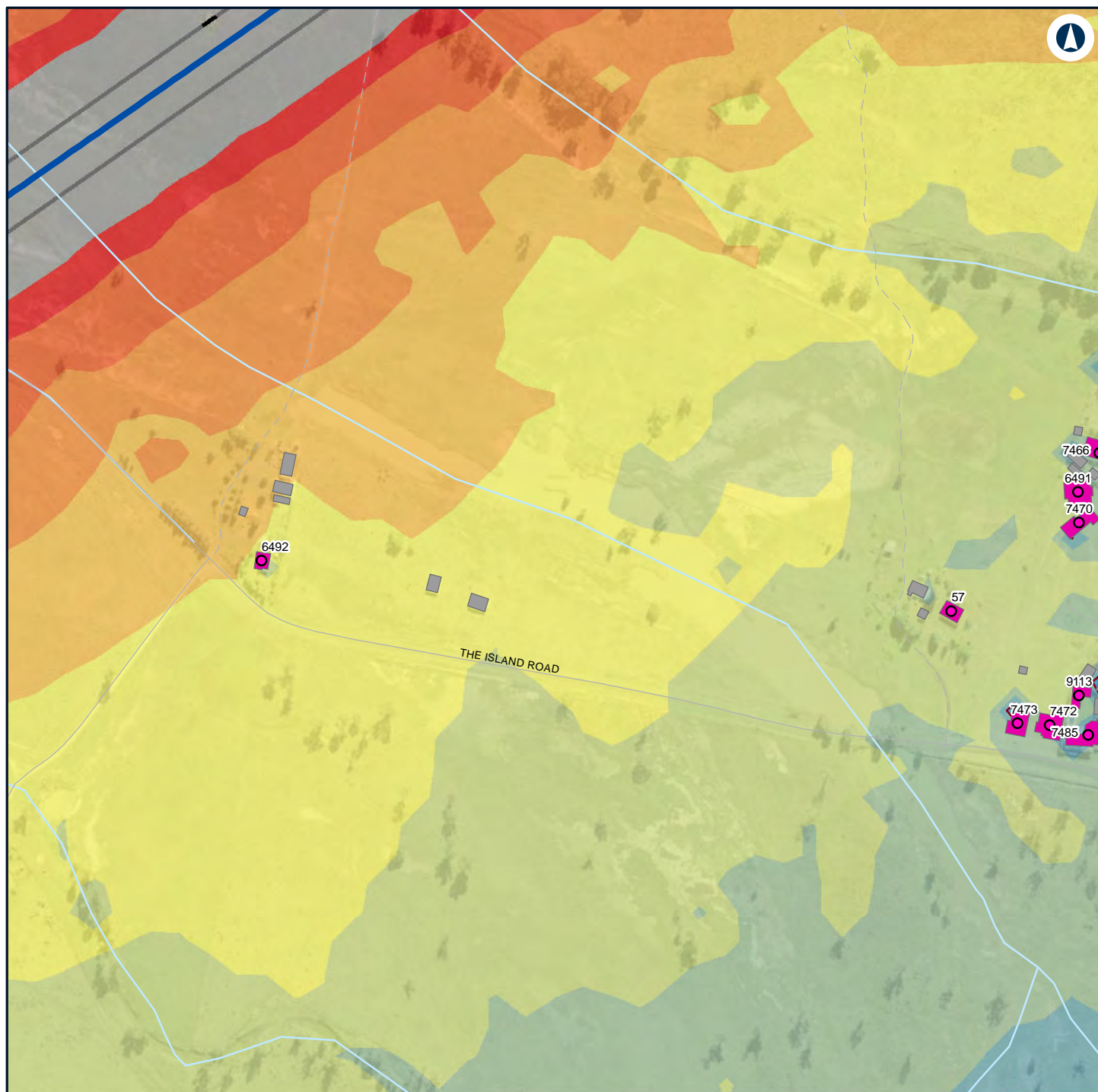
Author: GHD

Scale: 1:5,000

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

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LEGEND

Construction footprint

Structure type

Residential

Other

Residential

Alignment

Night-time noise management level

Noise level (dBA L_{Aeq} 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

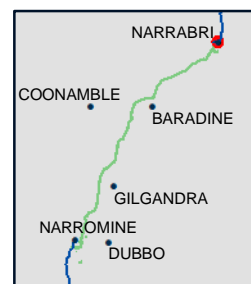
55 - 60

60 - 65

65 - 70

70 - 75

> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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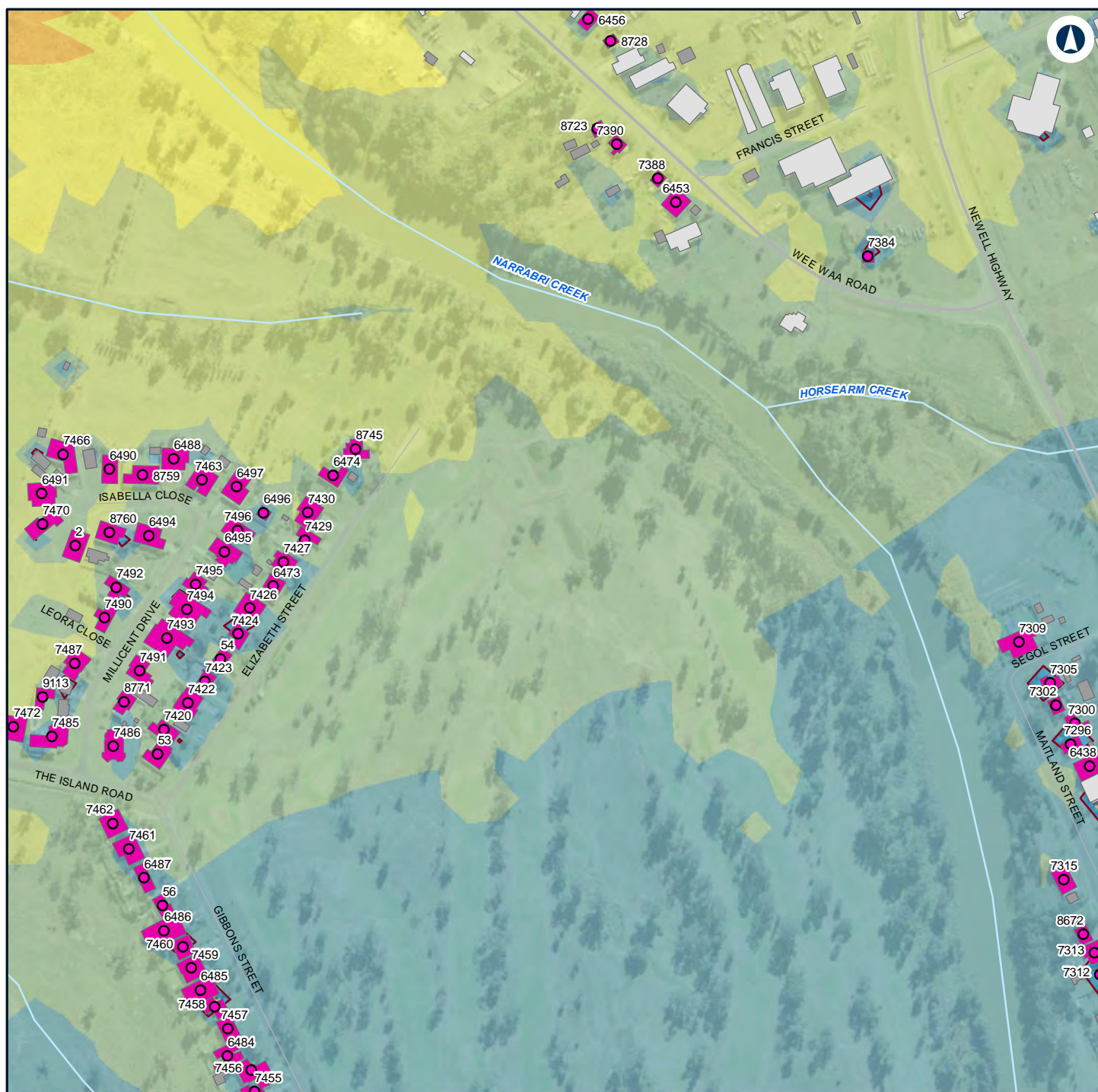
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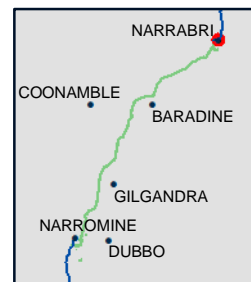
LEGEND

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



NARRABRI TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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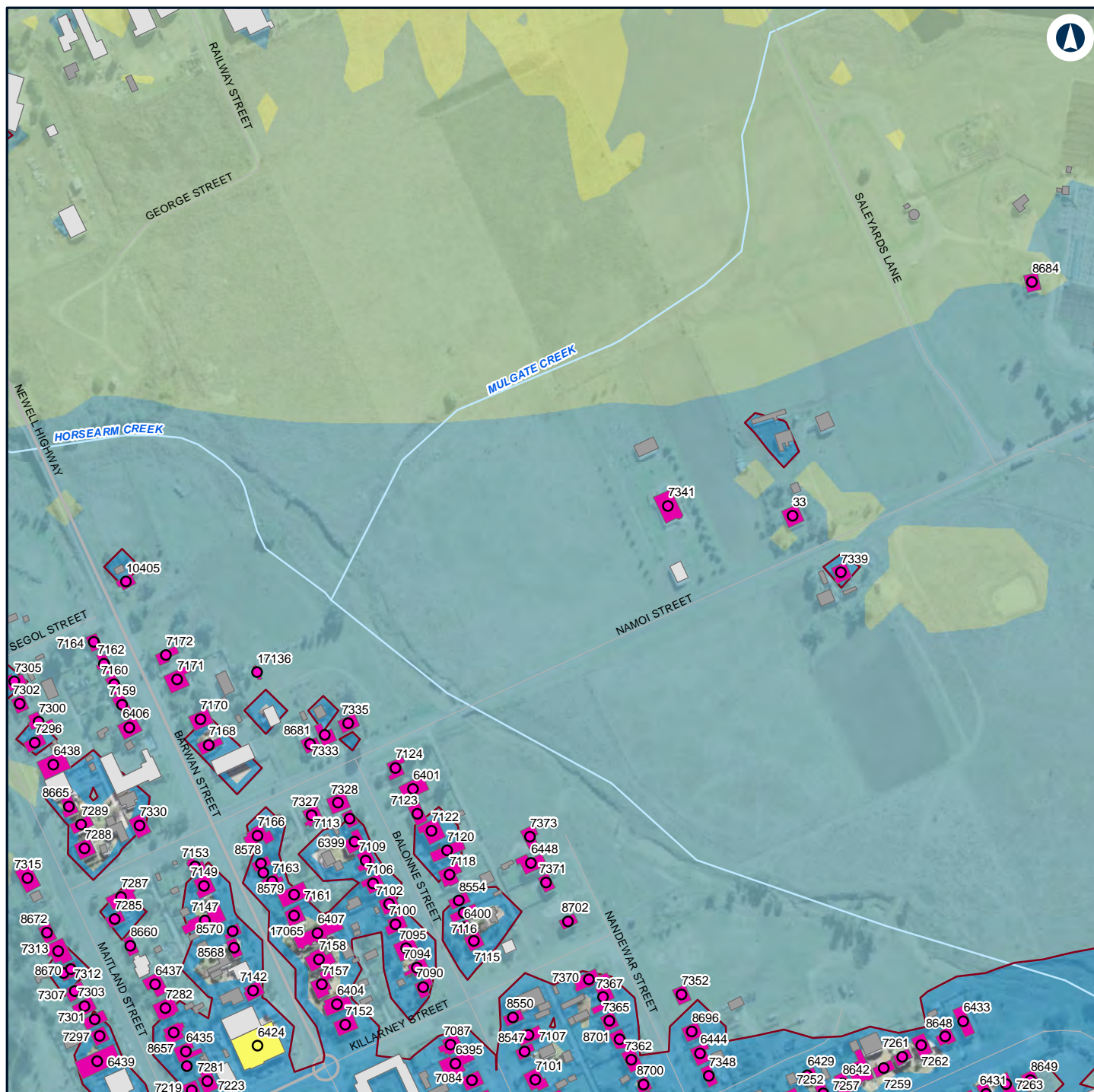
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- 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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0 0.1 0.2
Km

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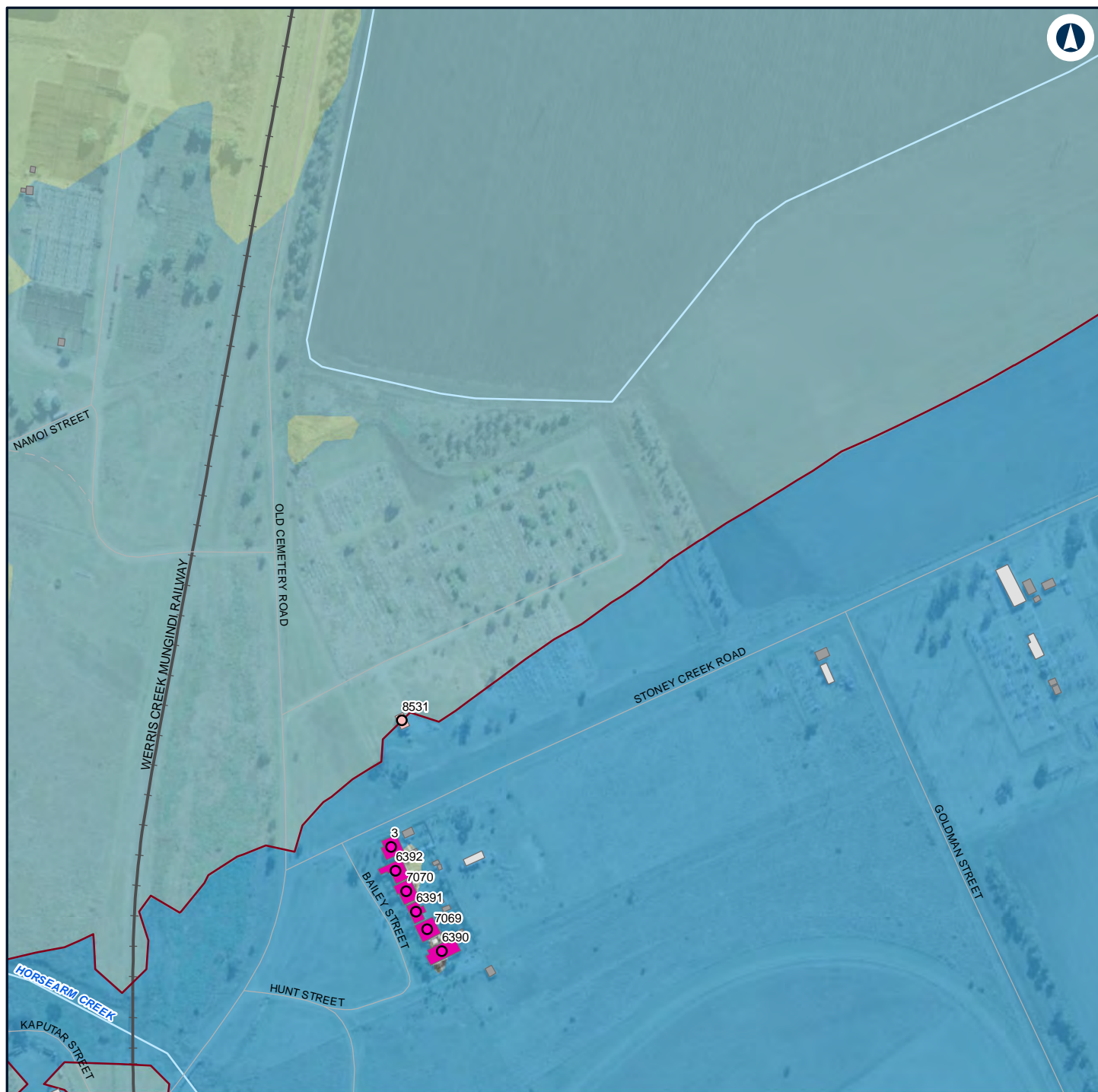
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Passive recreation
- Residential
- Commercial/Industrial
- Other
- Passive recreation
- 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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0 0.1 0.2
Km

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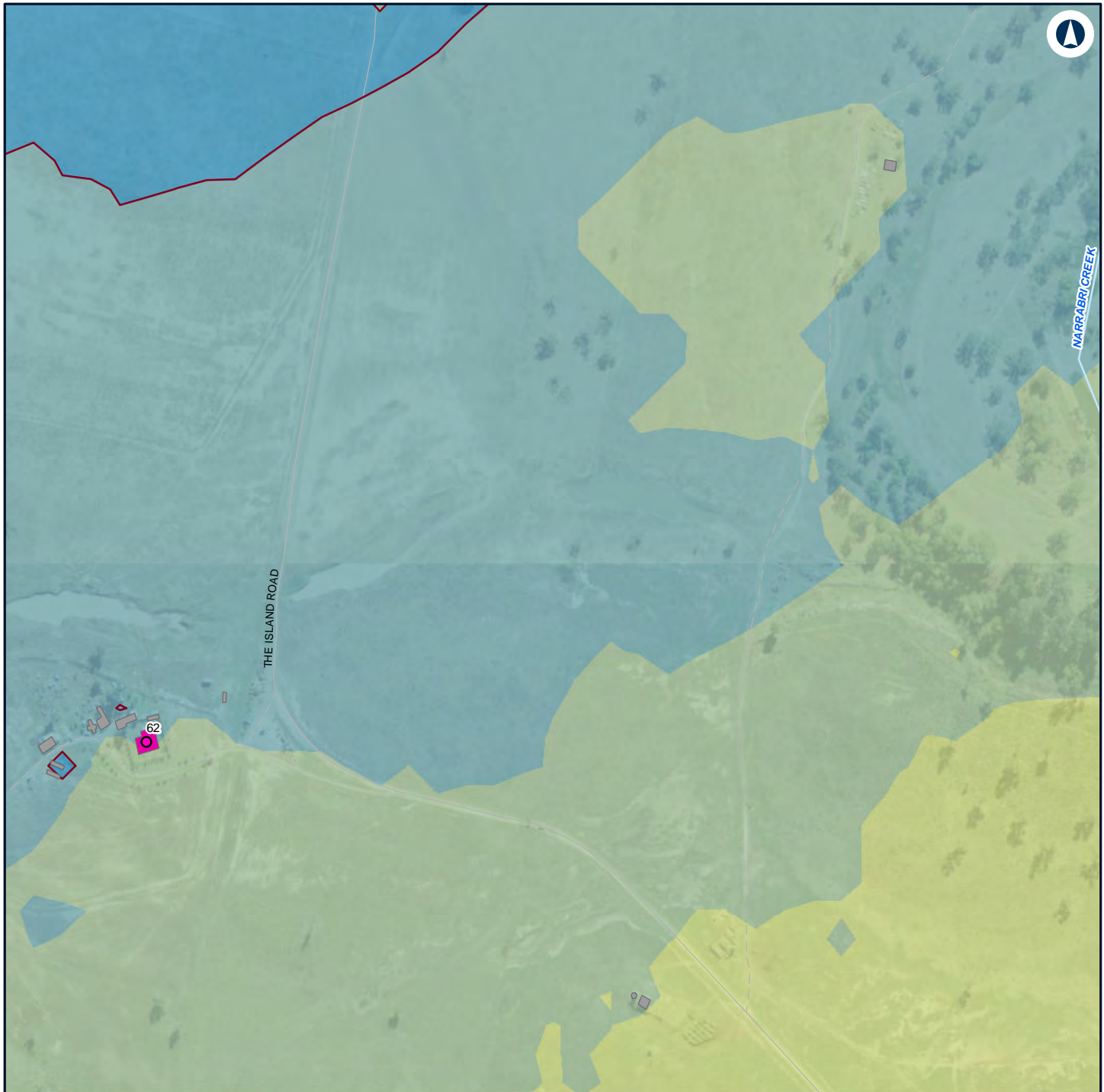
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

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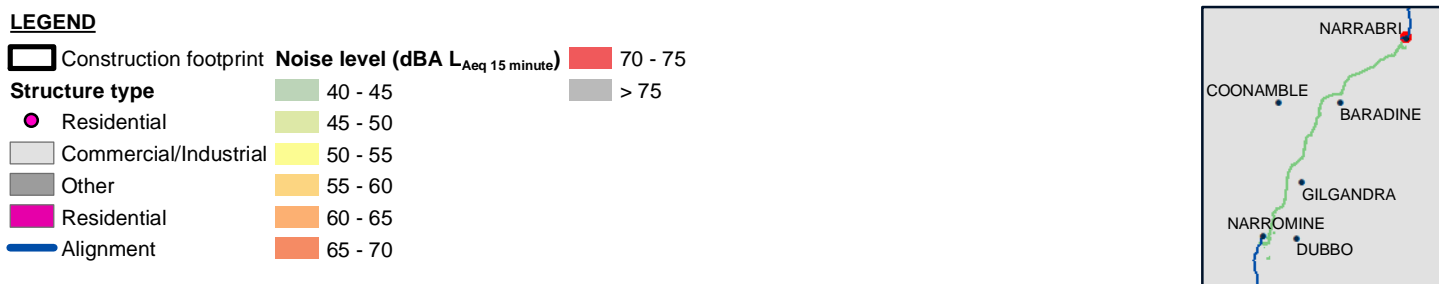
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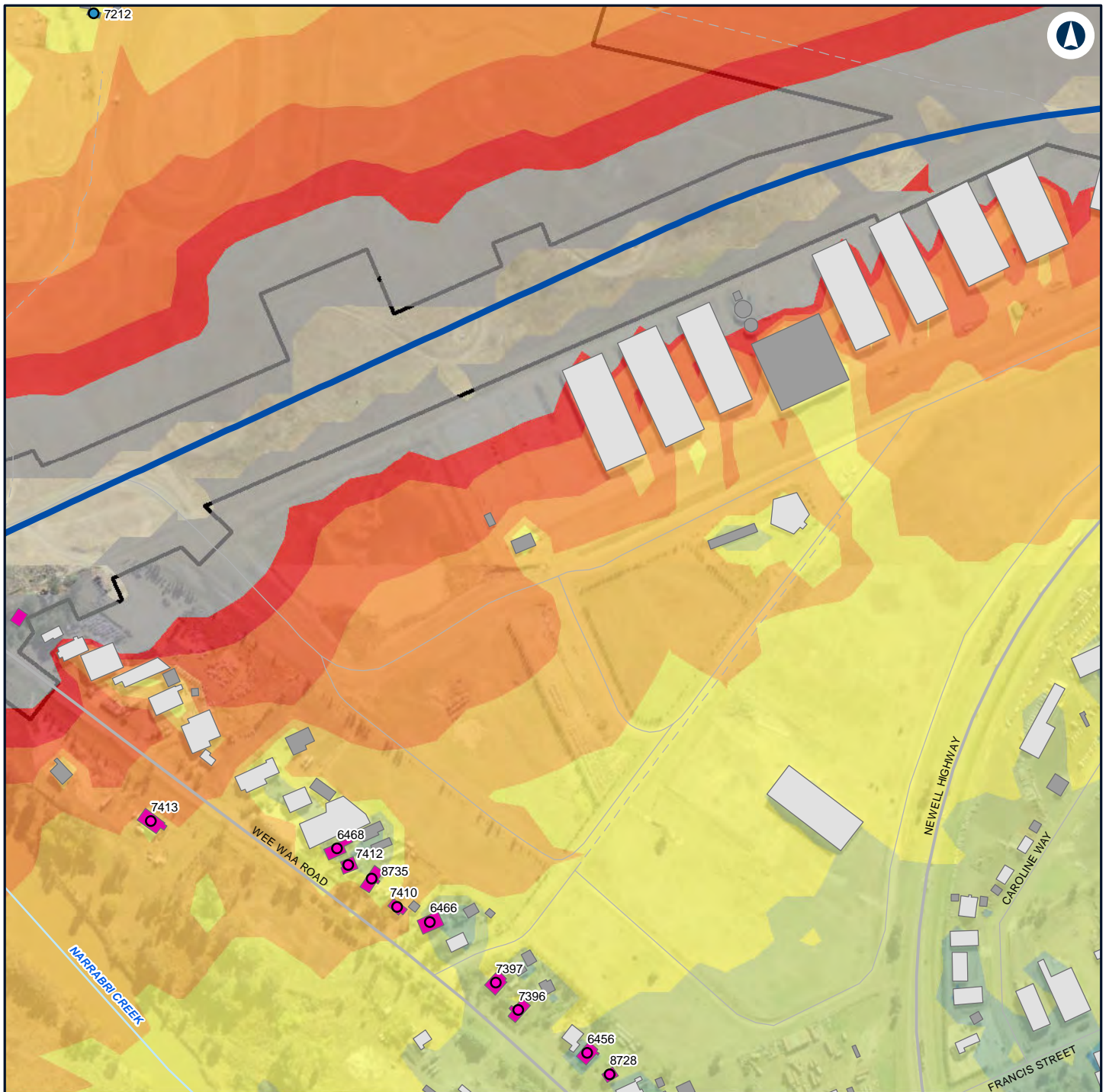
Scale: 1:5,000

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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0 0.1 0.2
Km

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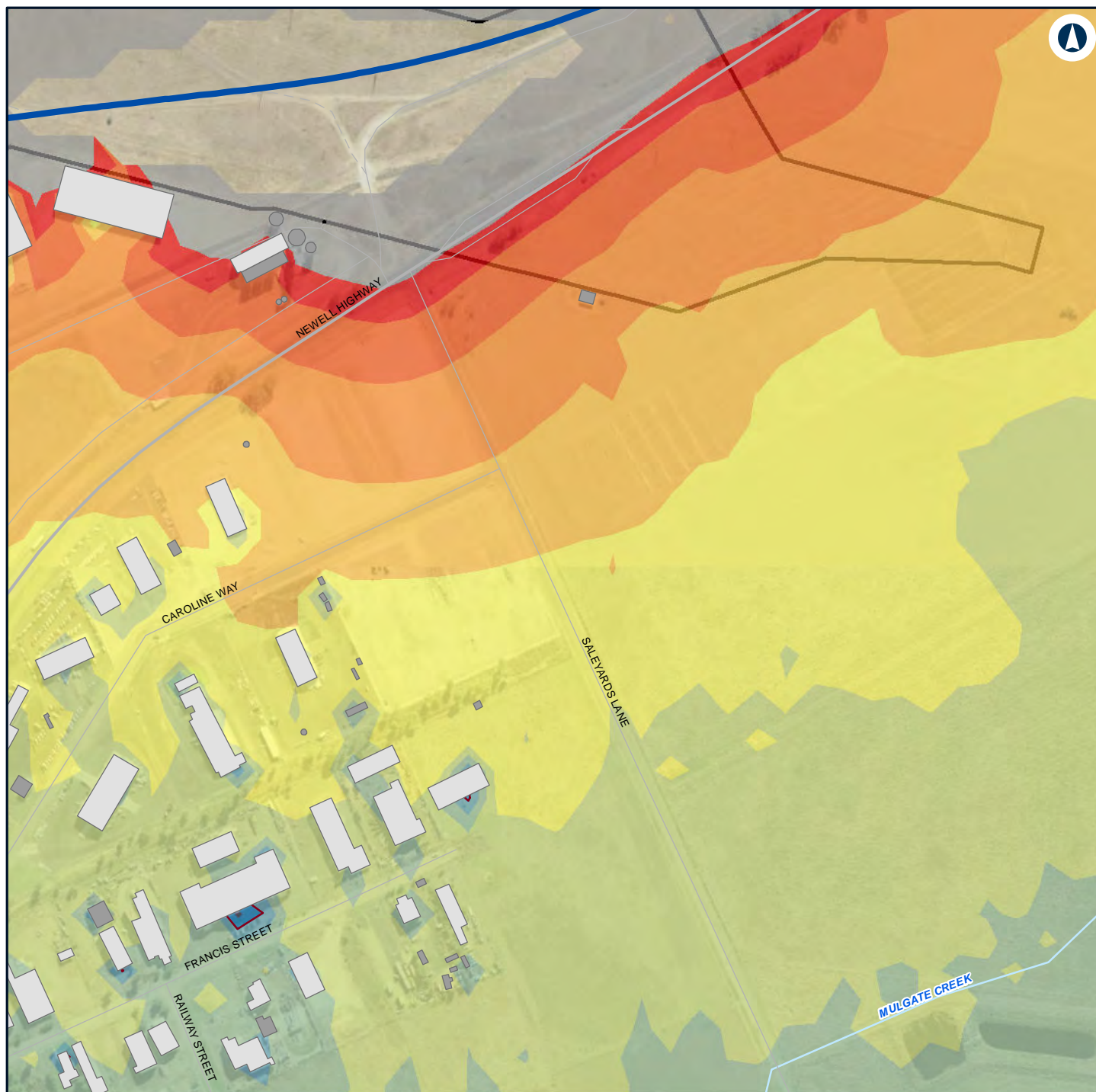
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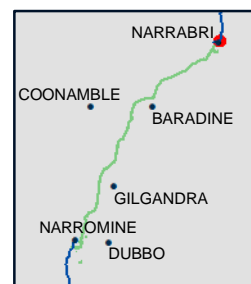
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 290 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

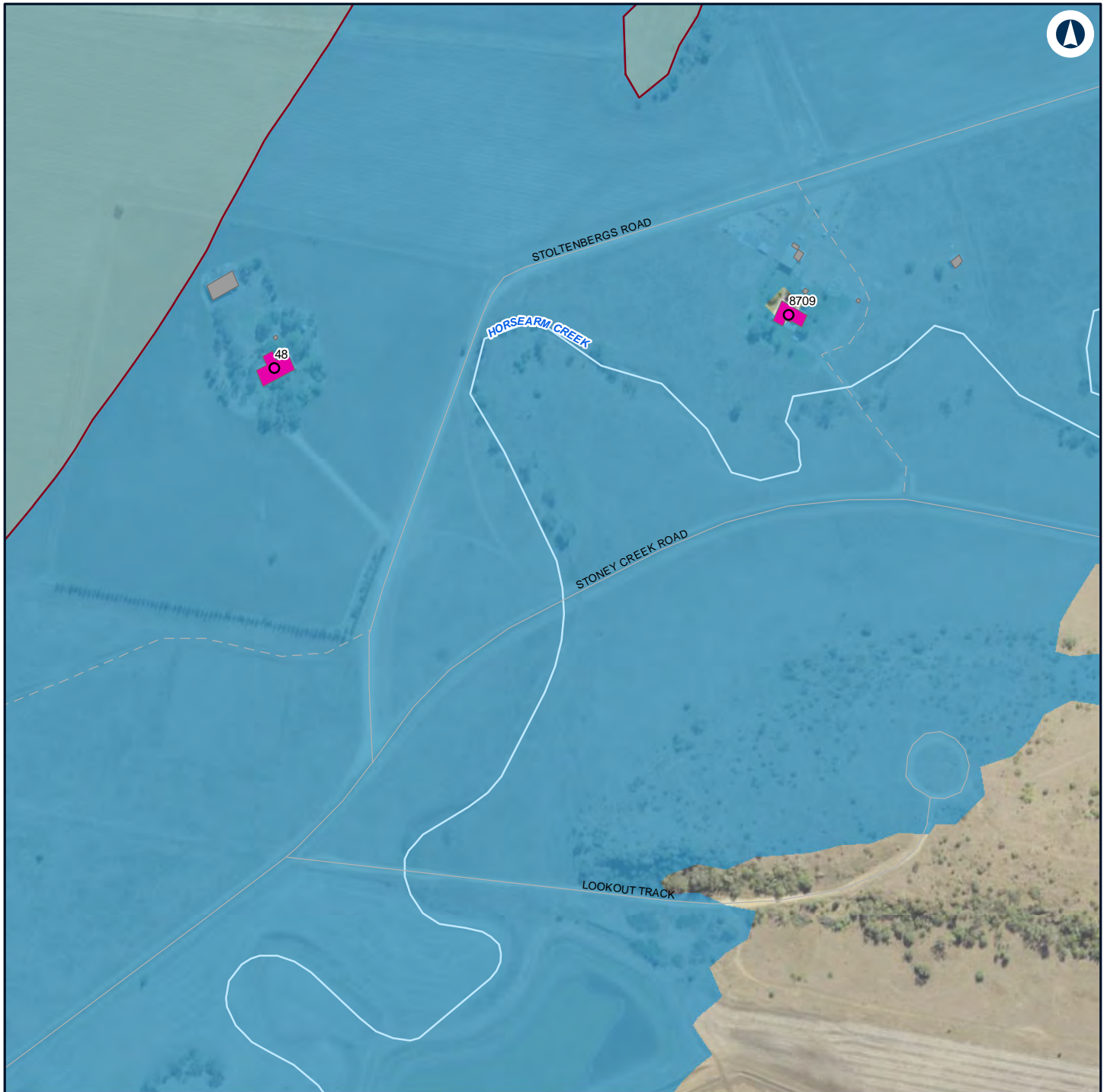
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

Residential

Other

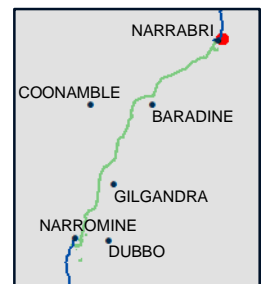
Residential

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 291 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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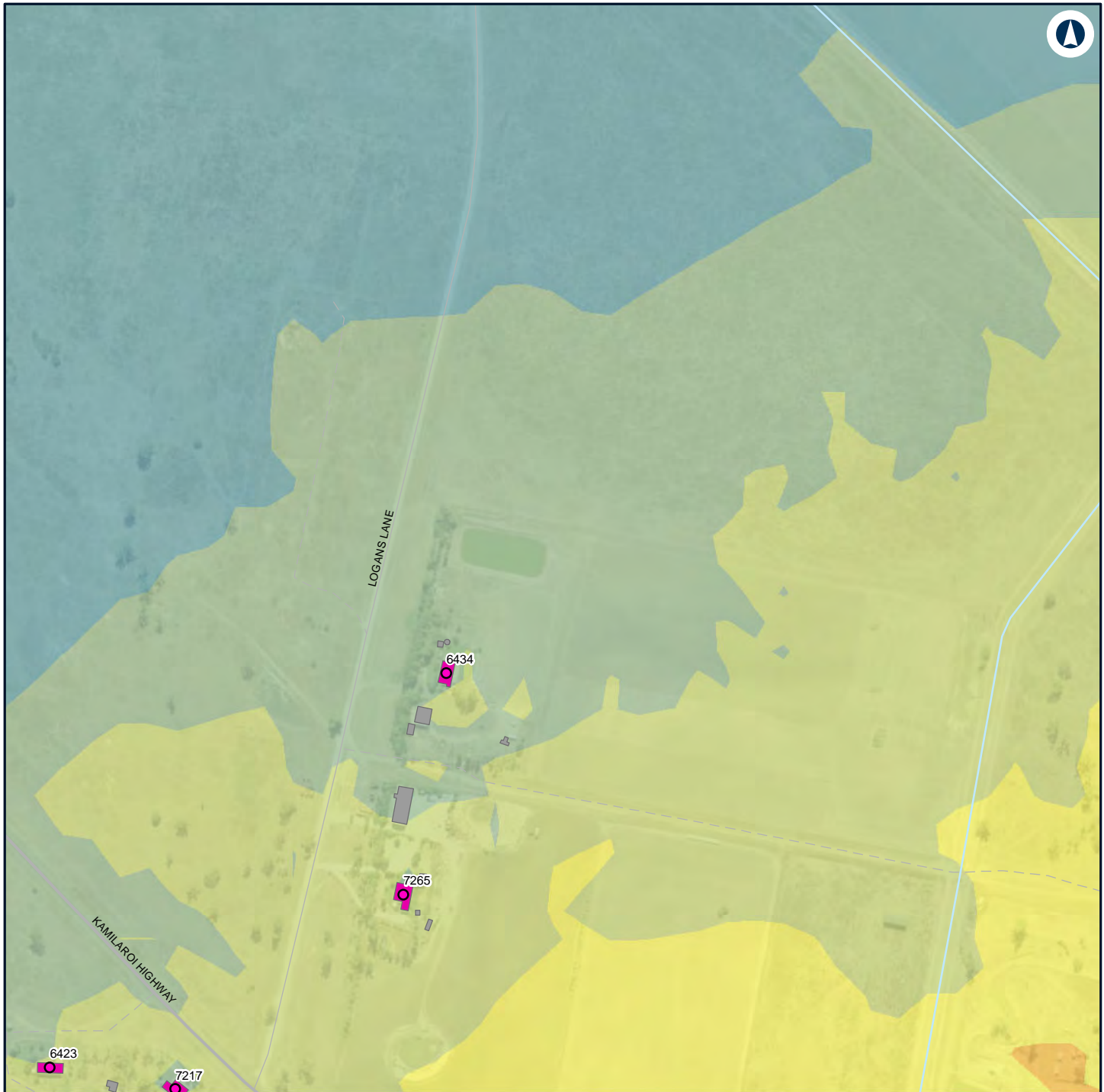
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- Other
- Residential

- 45 - 50
- 50 - 55
- 55 - 60

Noise level (dBA L_{Aeq} 15 minute)

- 35 - 40
- 40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 292 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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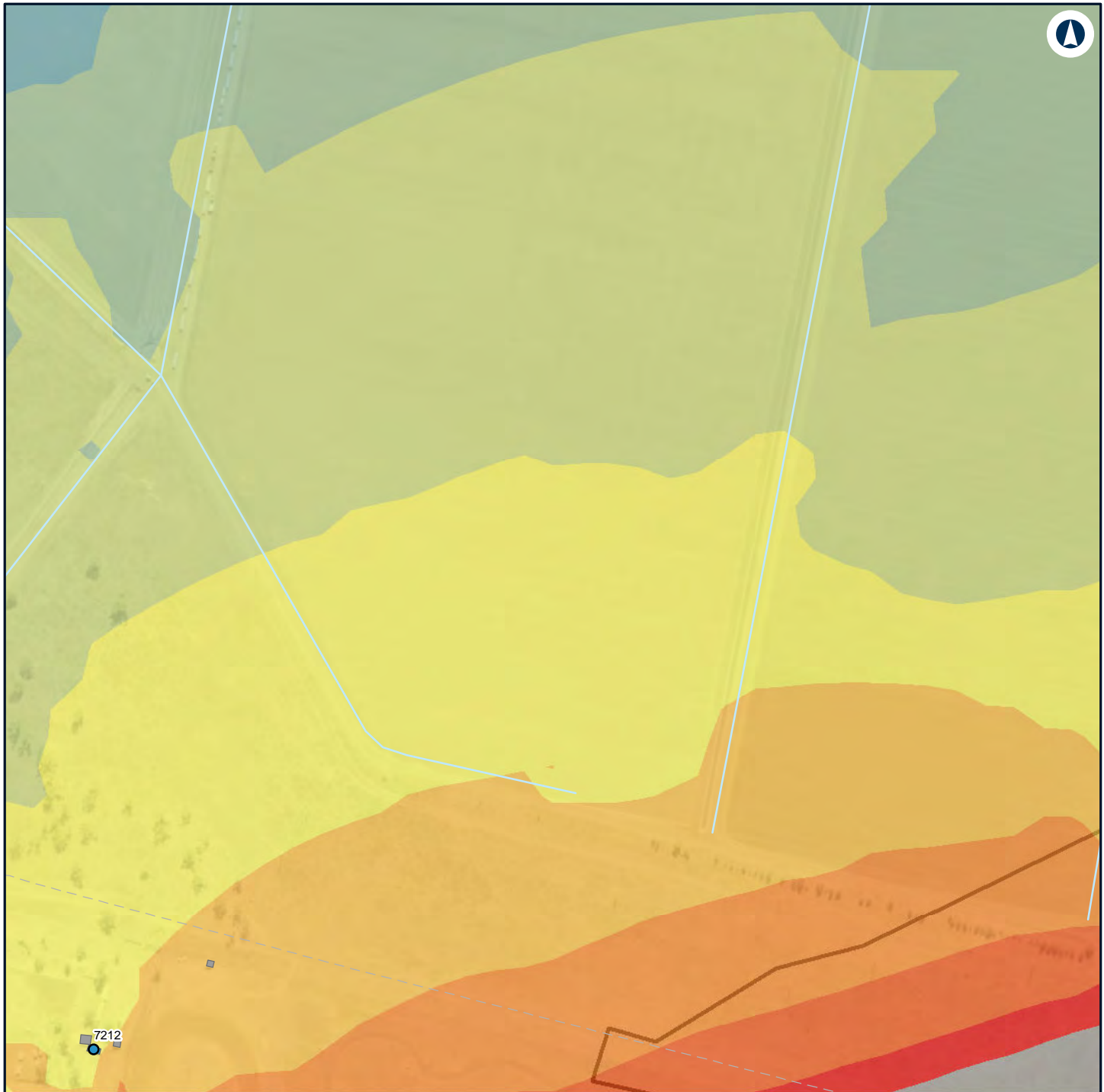
Author: GHD

Scale: 1:5,000

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

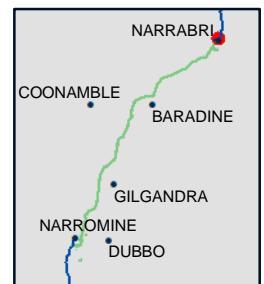
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LEGEND

Construction footprint	40 - 45	> 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

Appendix F - Page 293 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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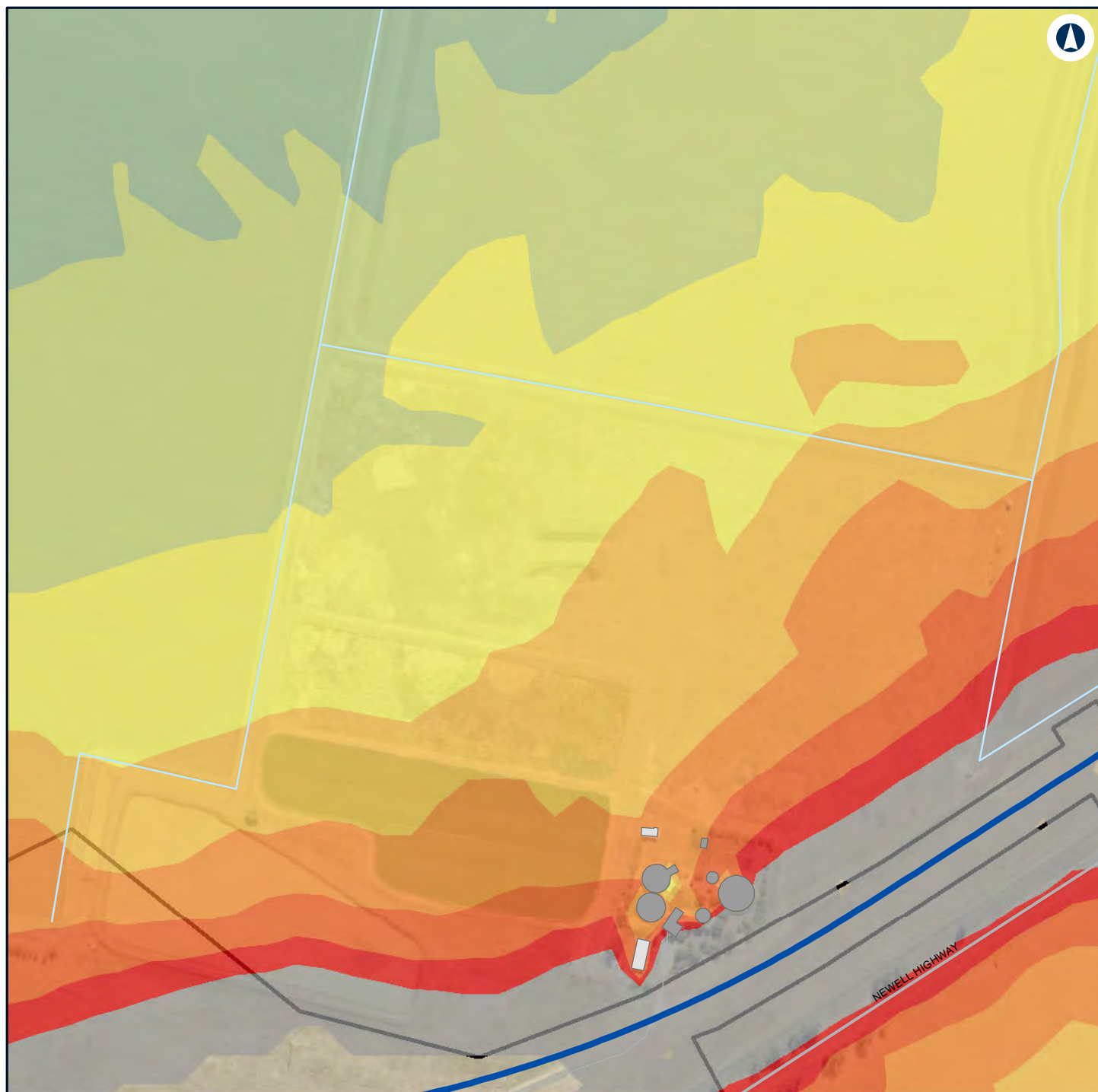
Author: GHD

Scale: 1:5,000

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

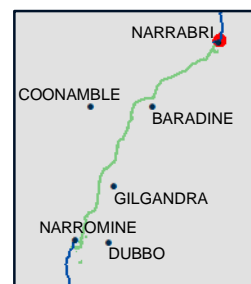
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LEGEND

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

Appendix F - Page 294 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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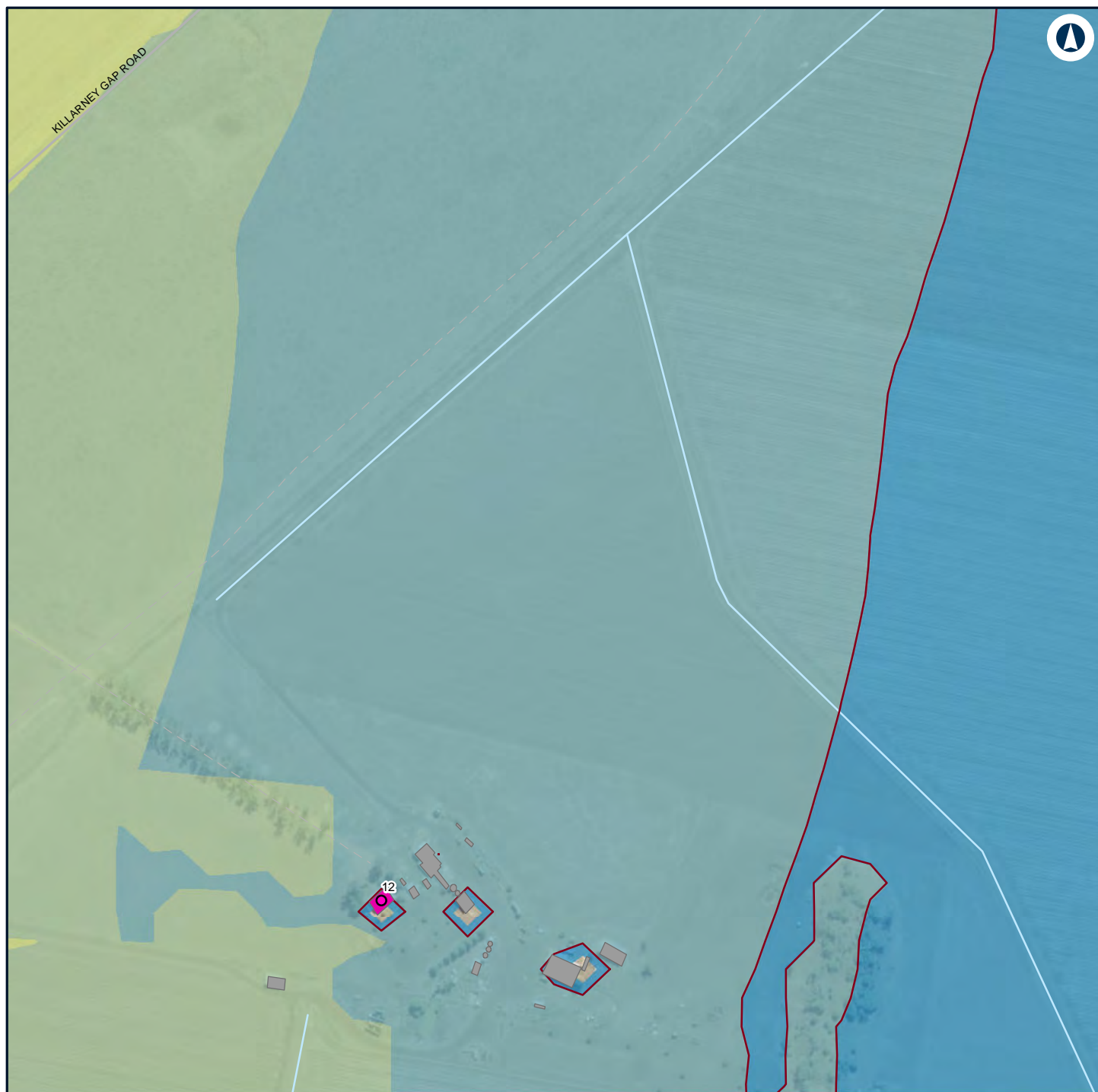
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LEGEND

Structure type

- Residential
- Other

- Residential

- Night-time noise management level

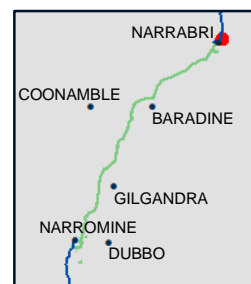
Noise level (dBA L_{Aeq} 15 minute)

- 30 - 35

35 - 40

40 - 45

45 - 50



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

Appendix F - Page 295 of 298

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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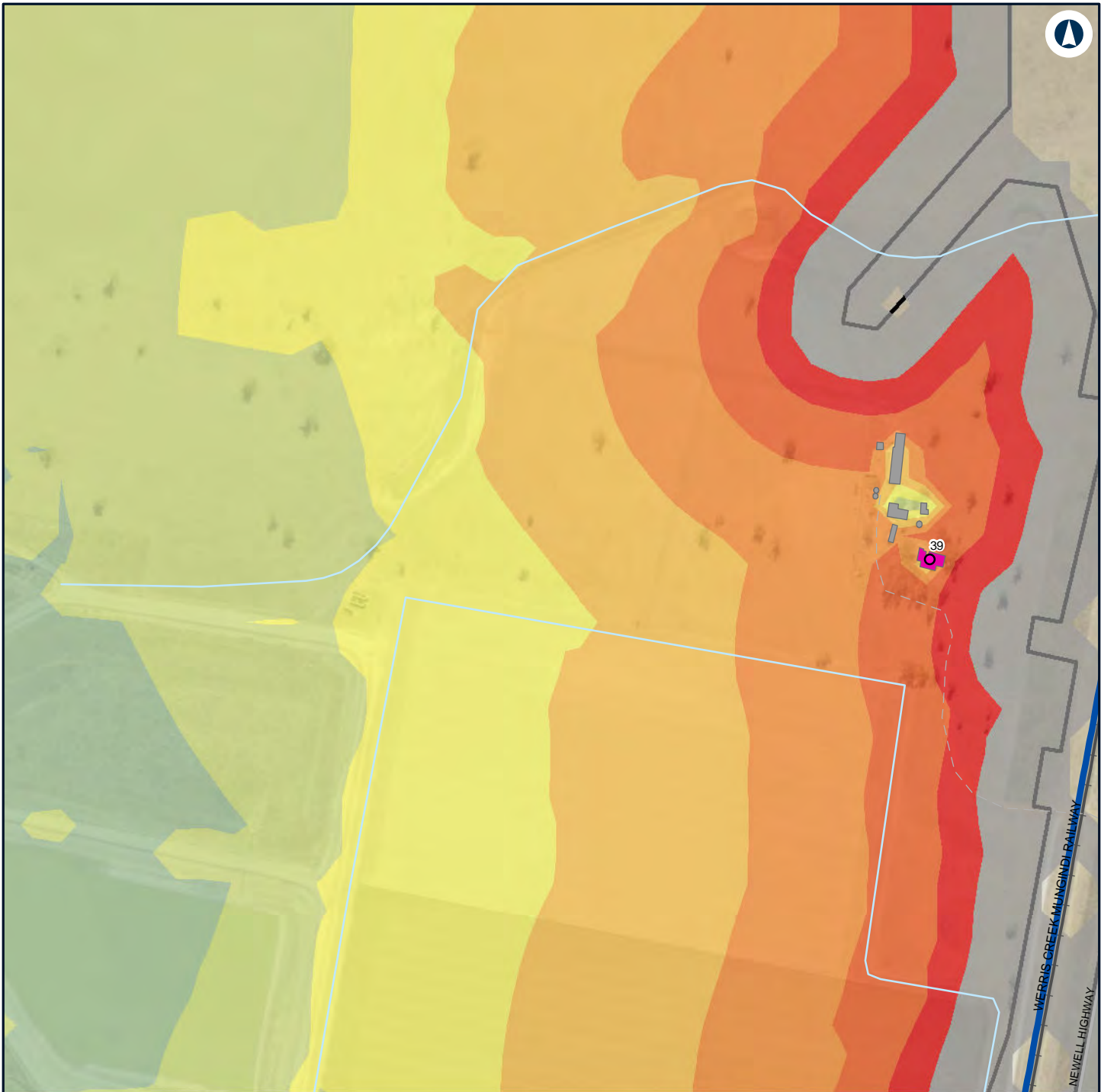
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LEGEND

	Construction footprint	Noise level (dBA L_{Aeq} 15 minute)		70 - 75
Structure type				> 75
	Residential			
	Other			
	Residential			
	Alignment			



NARROMINE TO NARRABRI

Construction noise contours, Scenario RAIL03 - Stripping Topsoil

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

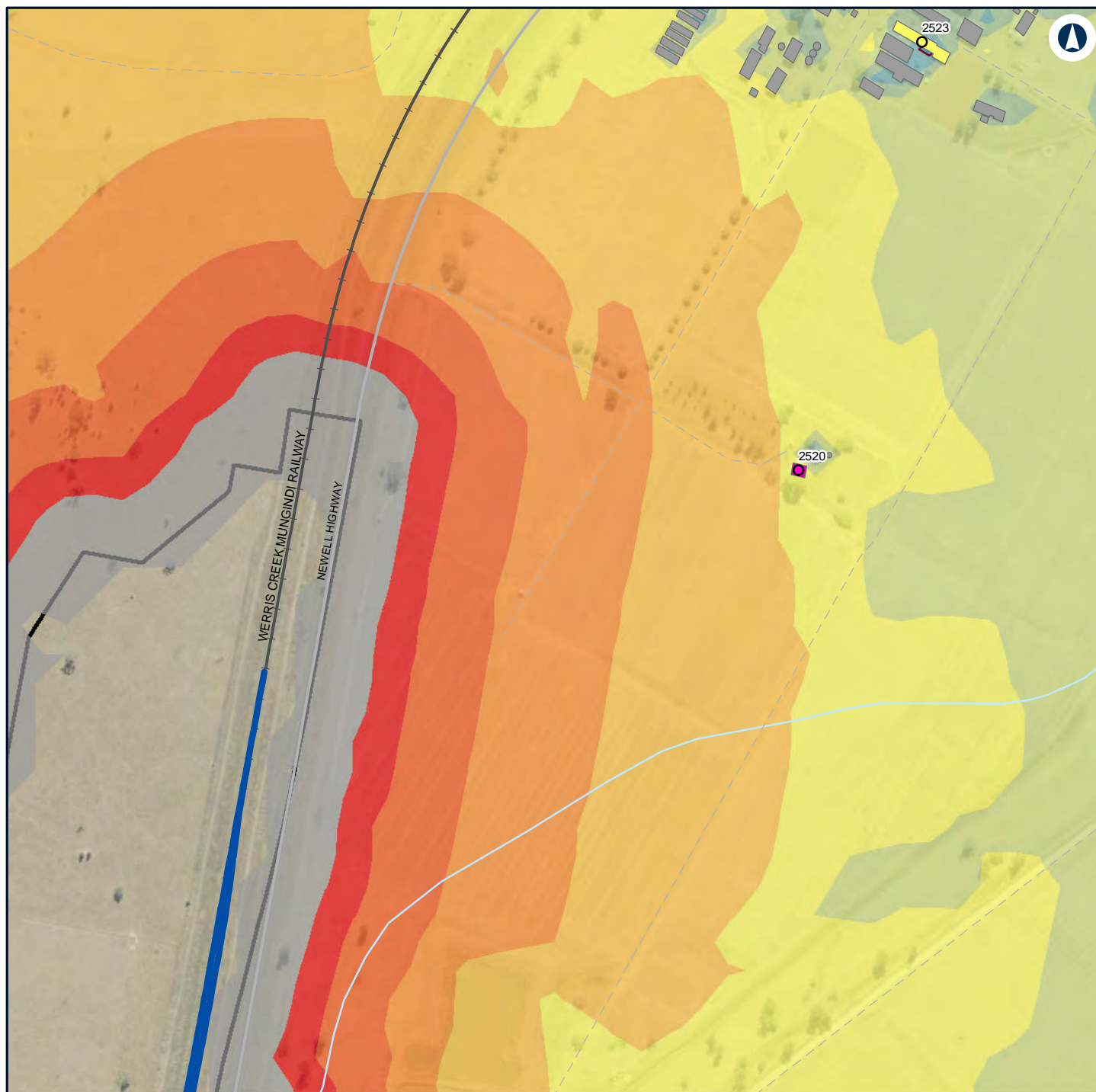
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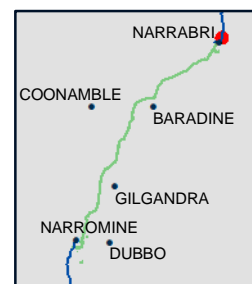
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LEGEND

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

Appendix F - Page 297 of 298

0 0.1 0.2
Km

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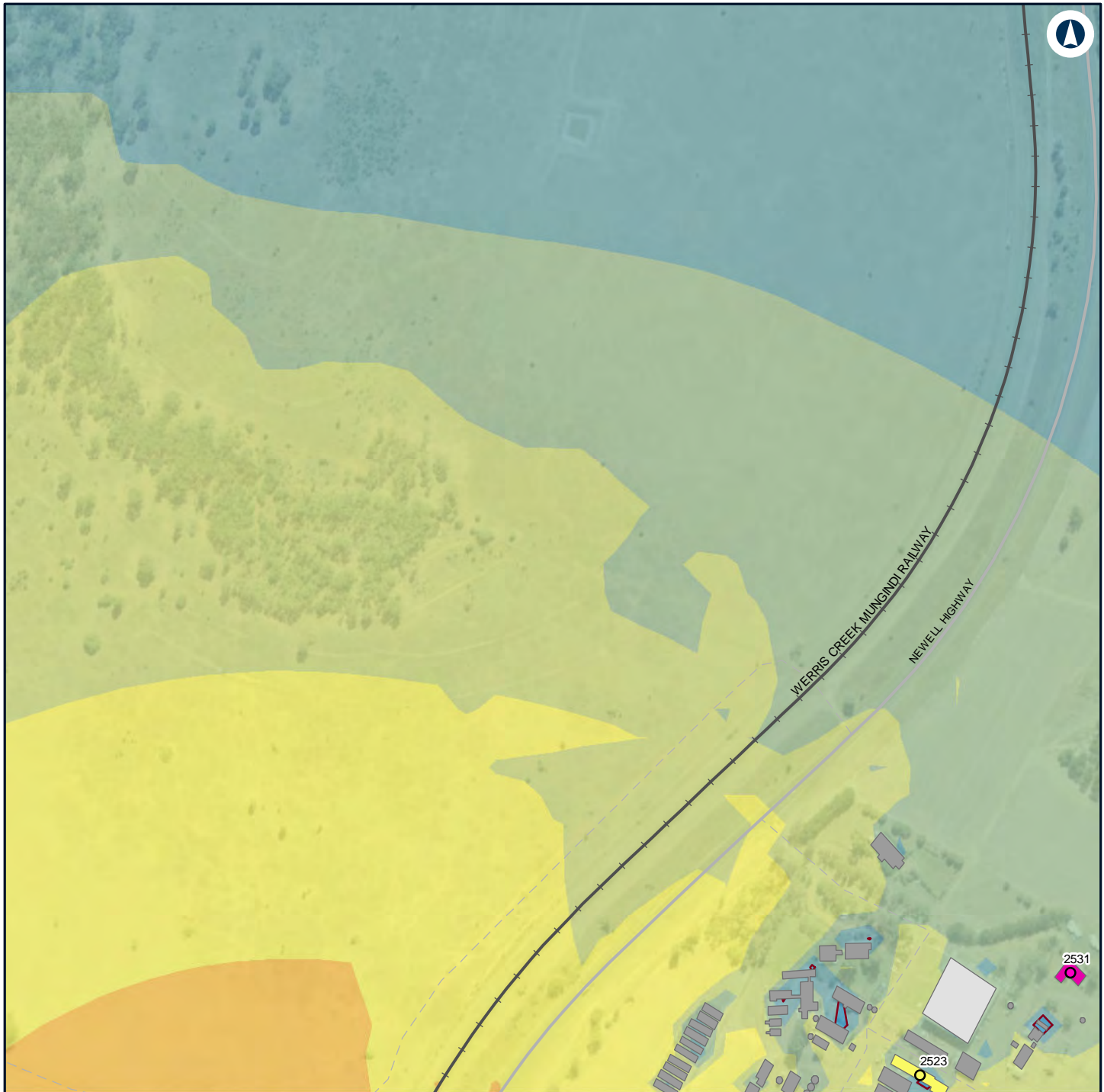
Author: GHD

Scale: 1:5,000

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

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LEGEND

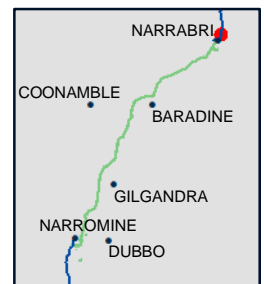
Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- Other
- Residential

— Night-time noise management level ■ 55 - 60

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 298 of 298

0 0.1 0.2
Km

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TECHNICAL REPORT

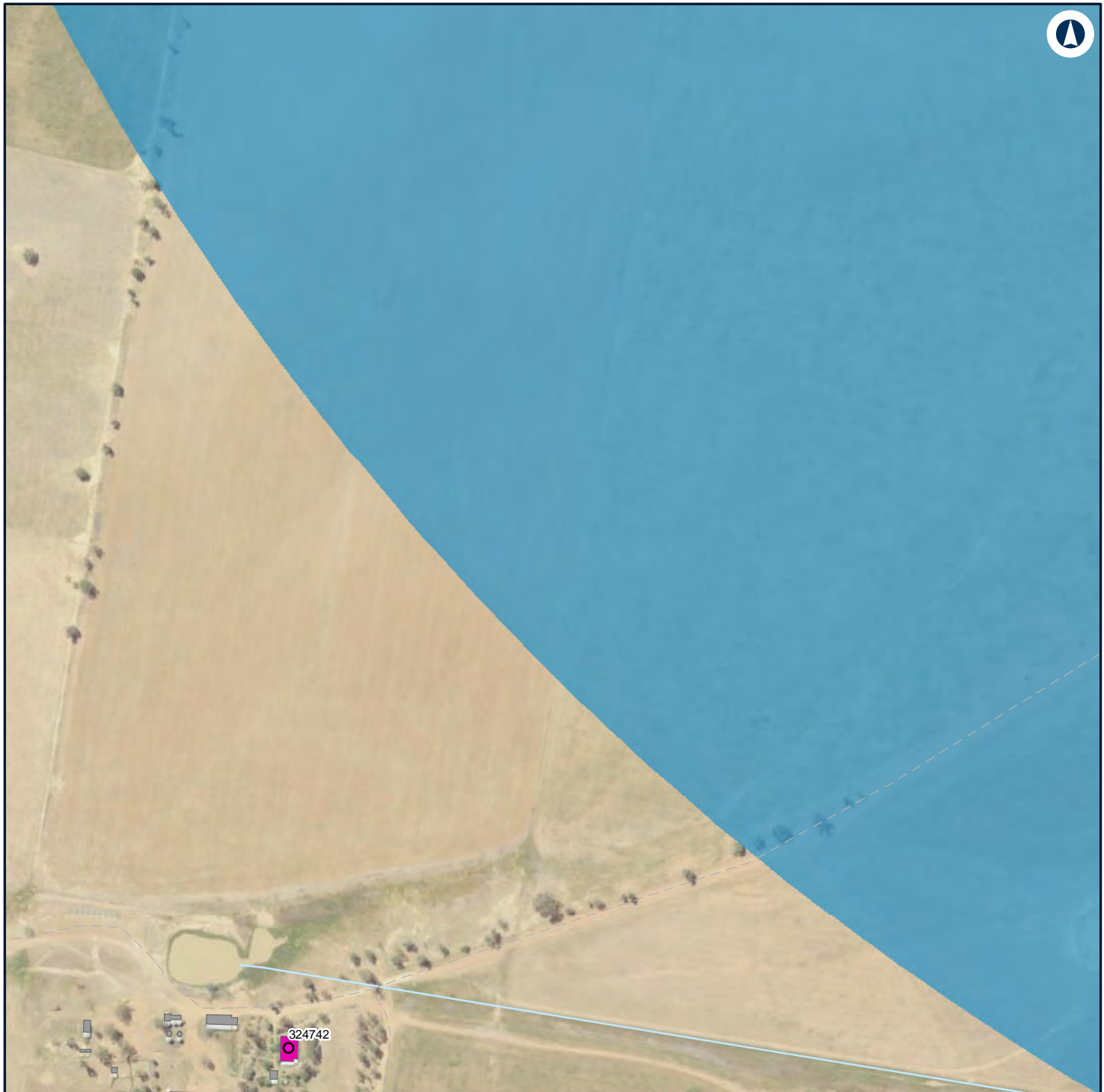
8

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

Appendix G - Page 1 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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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 2 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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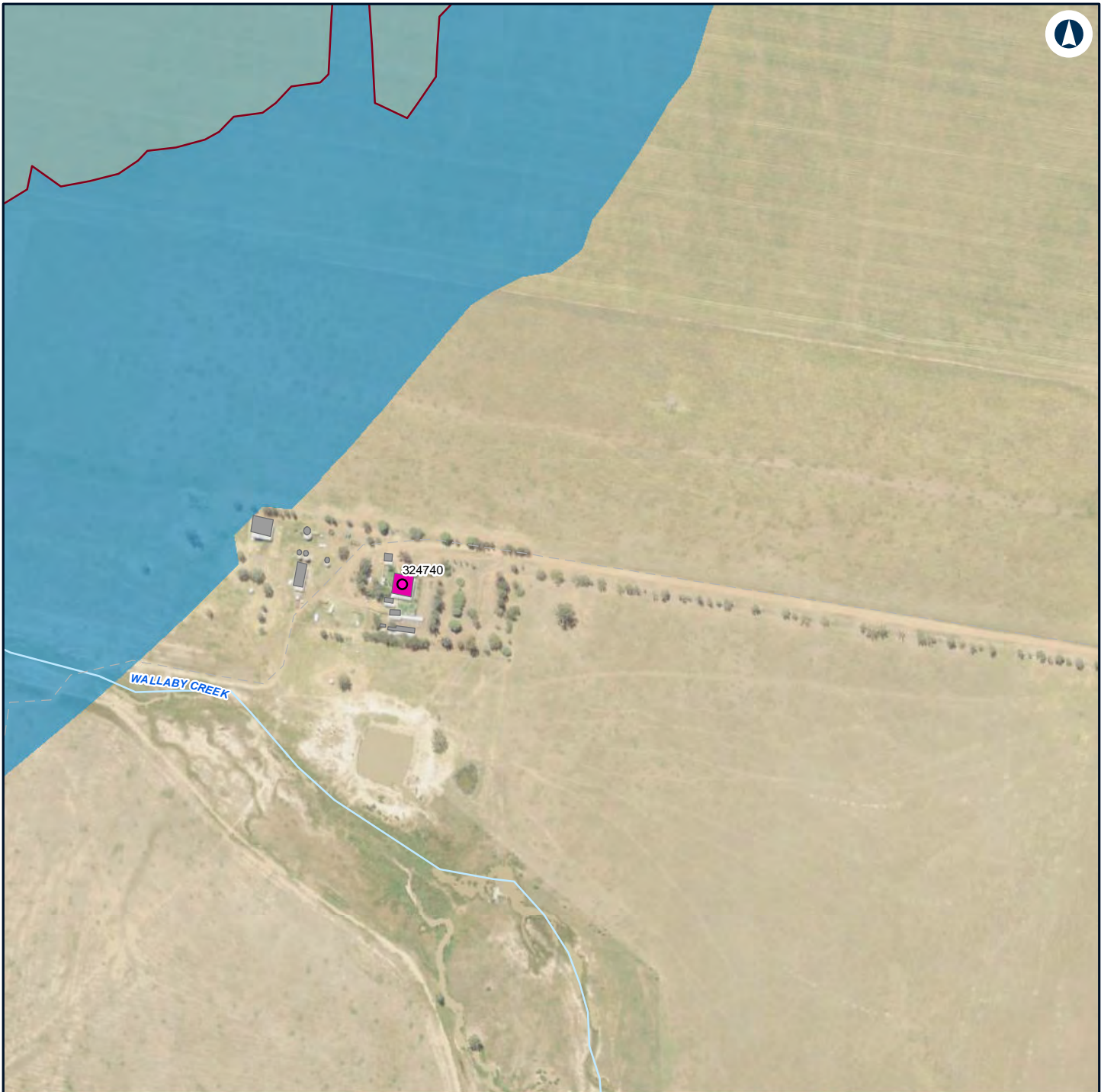
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Scale: 1:5,000

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

Appendix G - Page 3 of 304

0 0.1 0.2 Km

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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 4 of 304

0 0.1 0.2
Km

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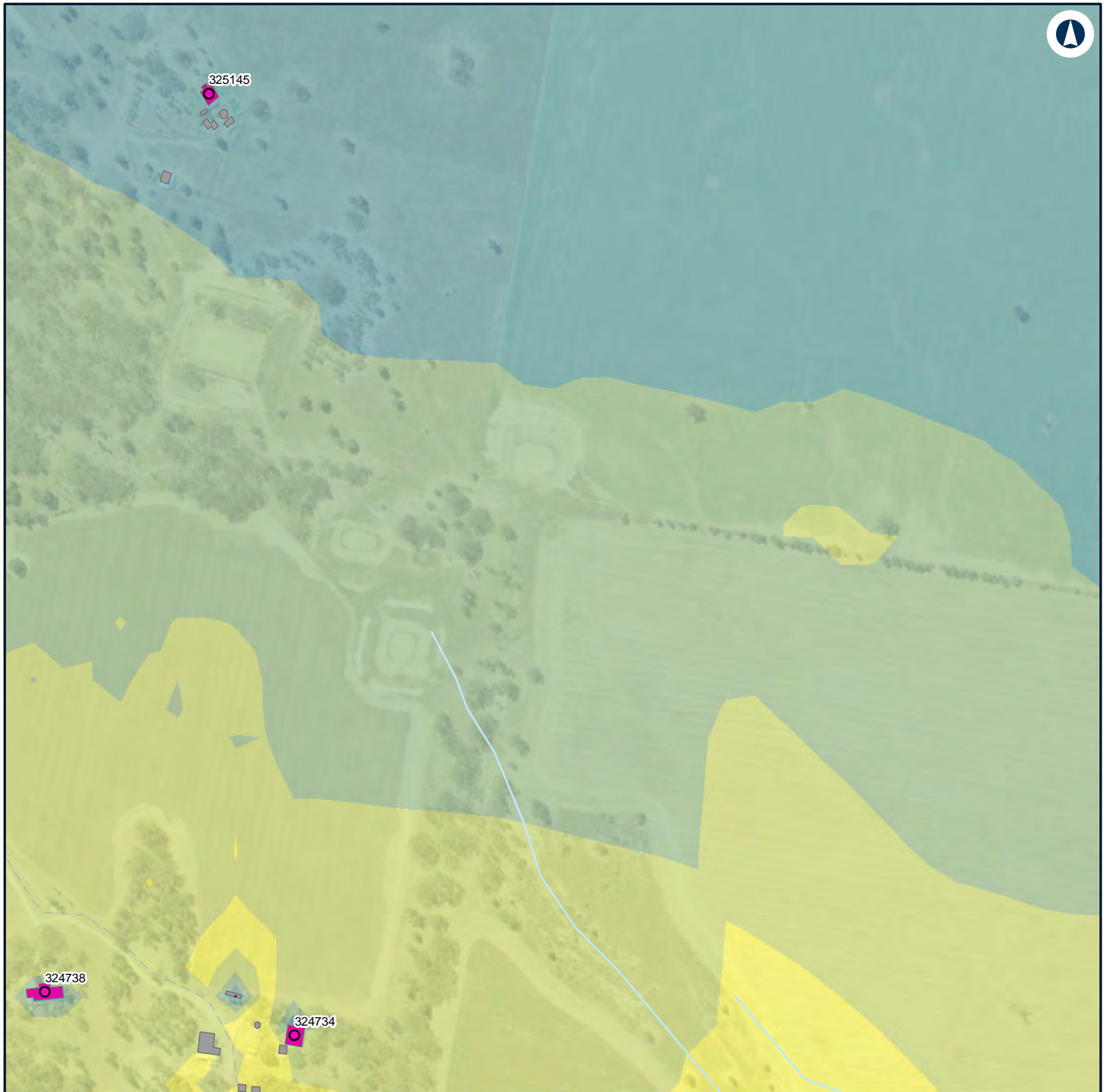
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

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

Appendix G - Page 5 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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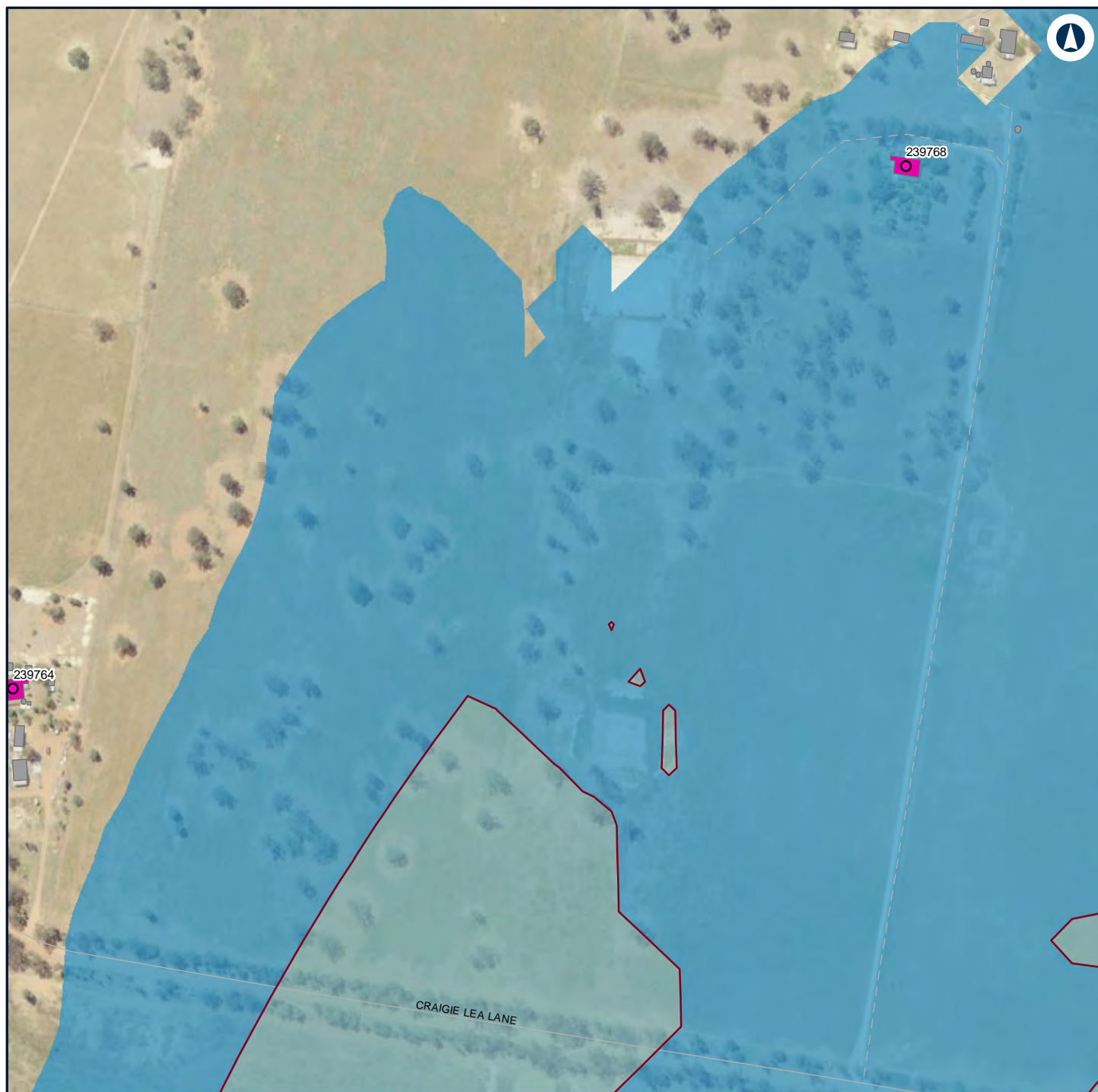
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type 35 - 40

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 6 of 304

0 0.1 0.2
Km

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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

Appendix G - Page 7 of 304

0 0.1 0.2
Km

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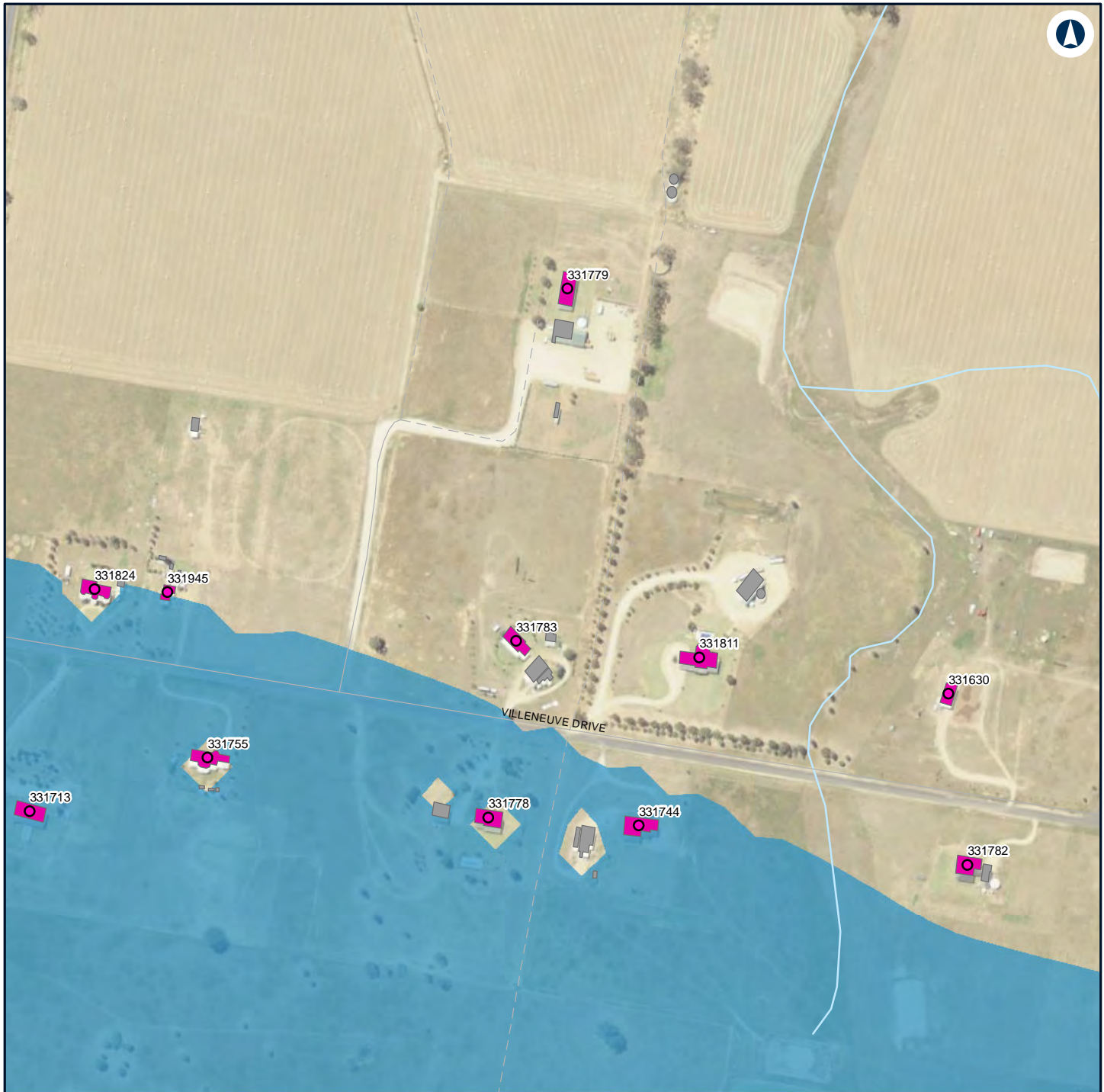
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LEGEND

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 8 of 304

0 0.1 0.2
Km

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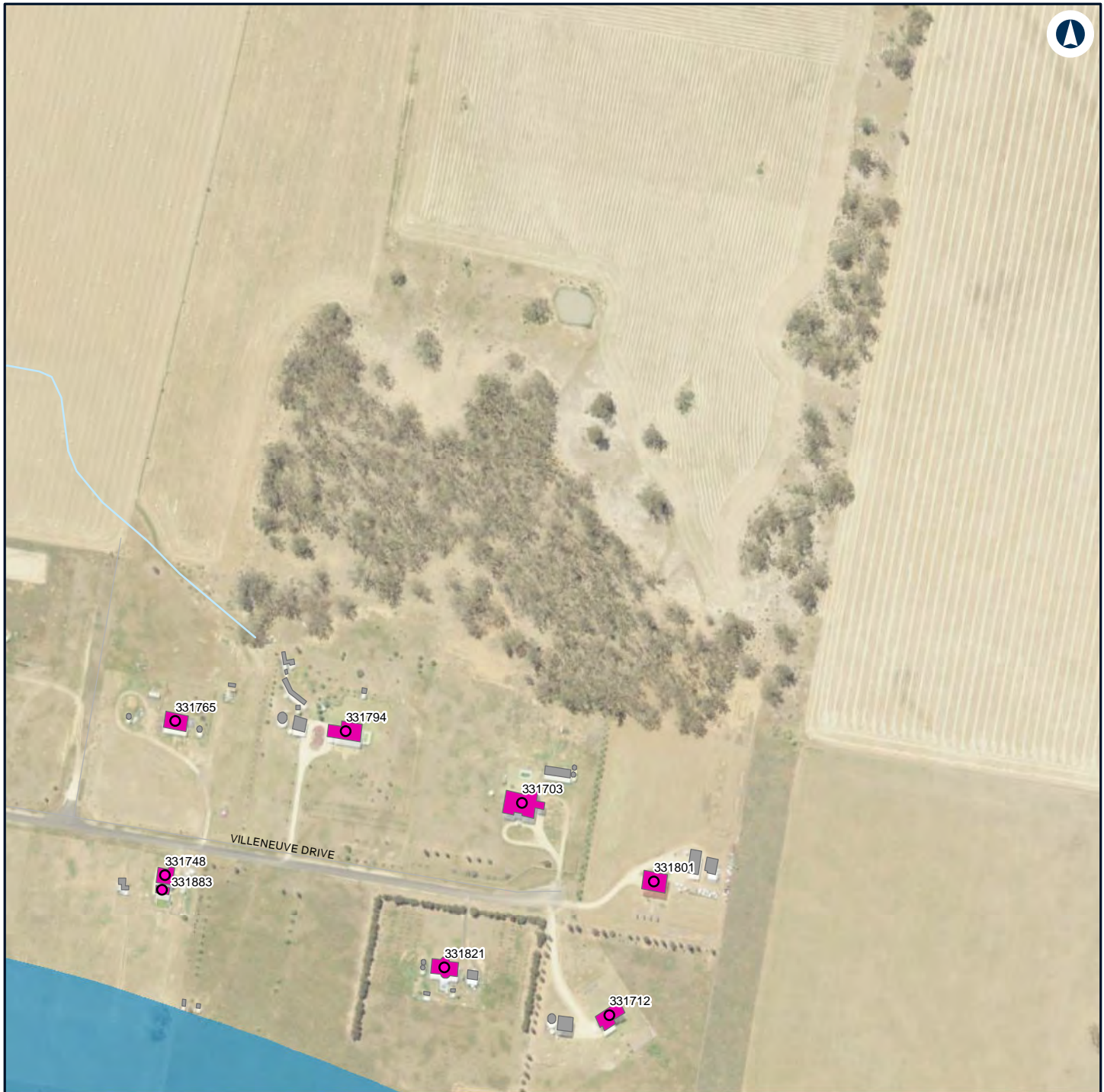
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LEGEND

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 9 of 304

0 0.1 0.2
Km

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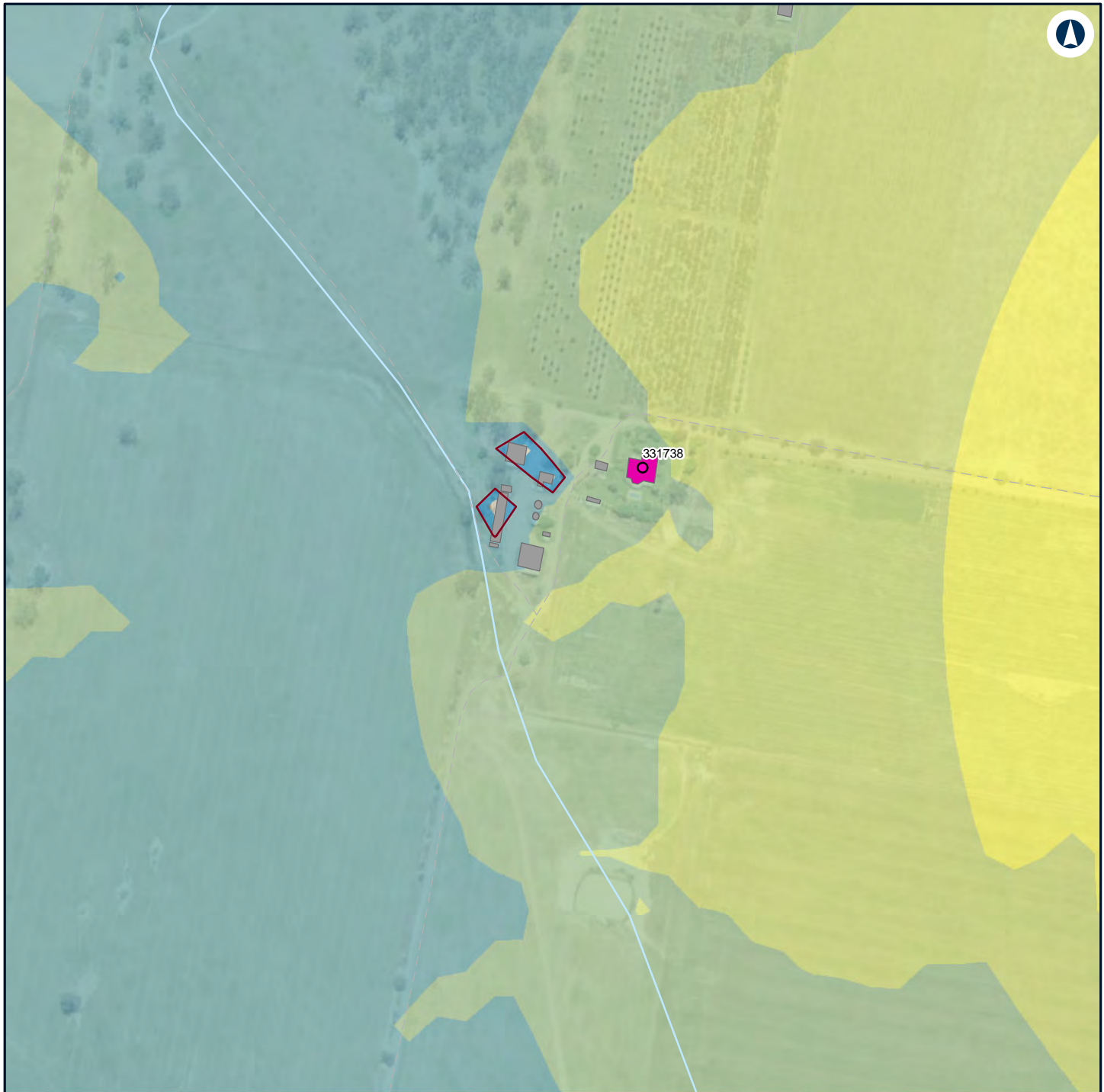
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

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

Noise level (dBA L

Aeq 15 minute)

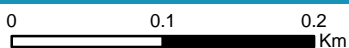
■	30 - 35
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NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 10 of 304



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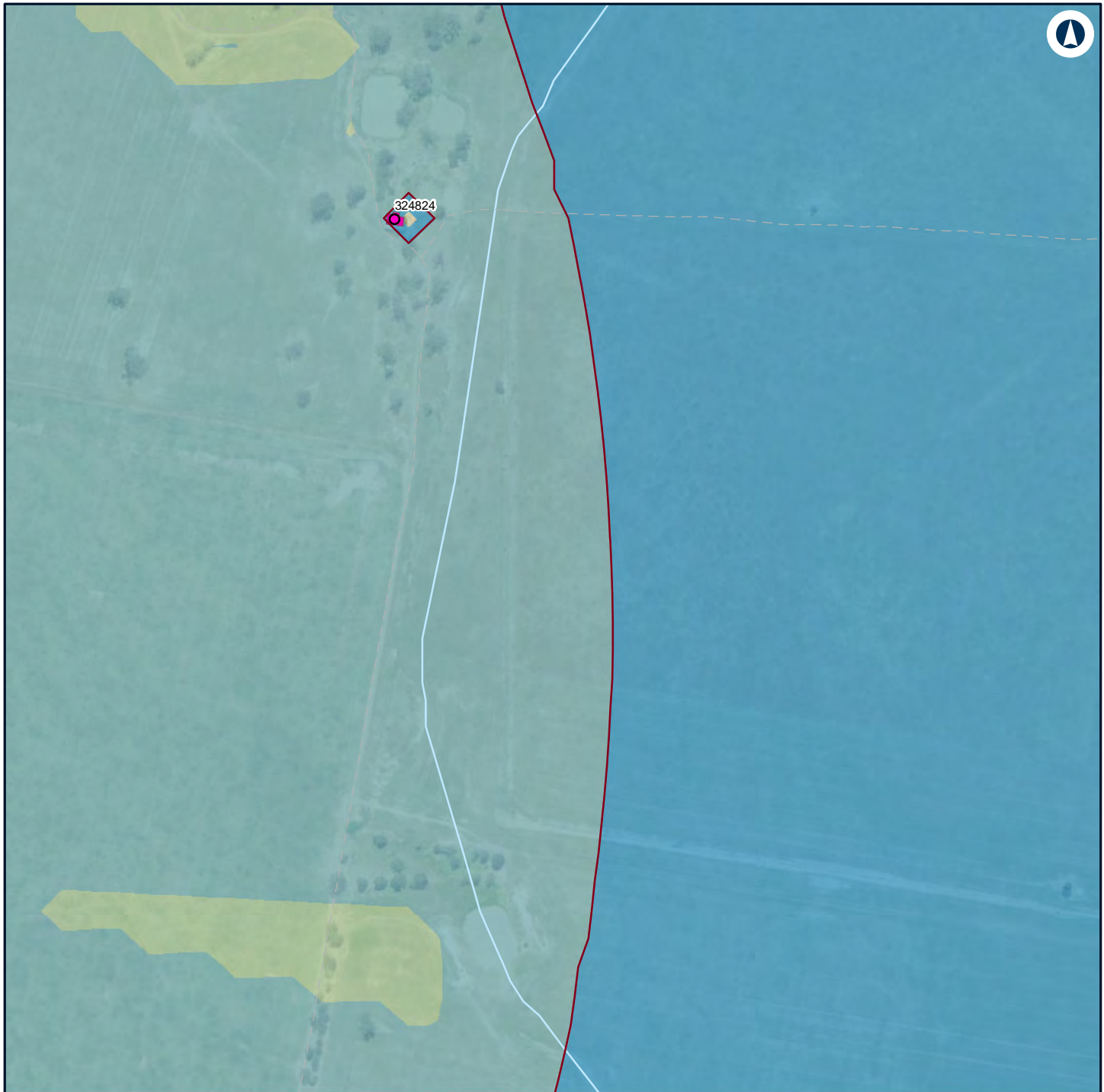
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LEGEND

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

0 0.1 0.2
Km

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Date: 16/07/2020

Paper: A4

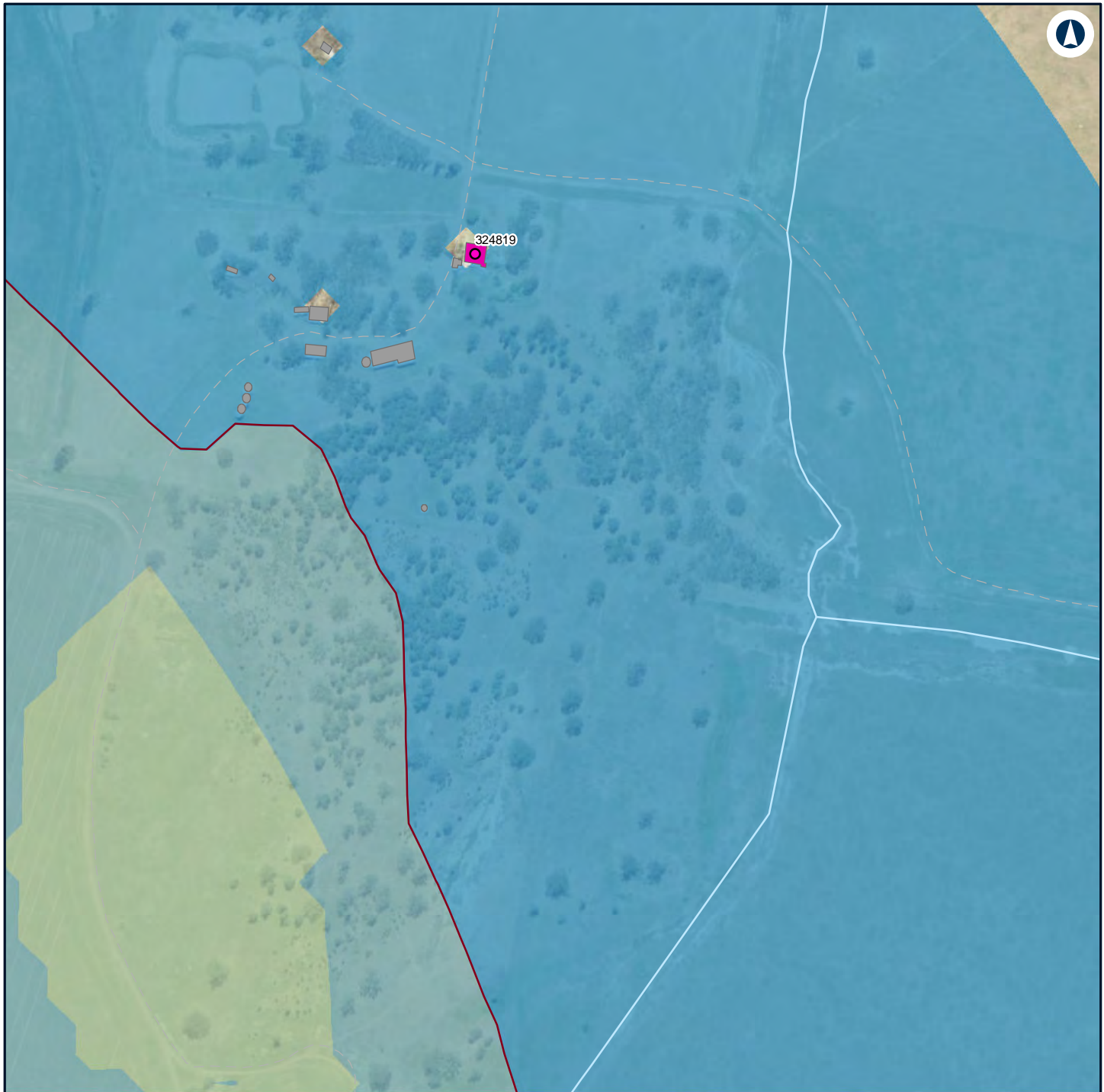
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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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 12 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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**INLAND
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- 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 13 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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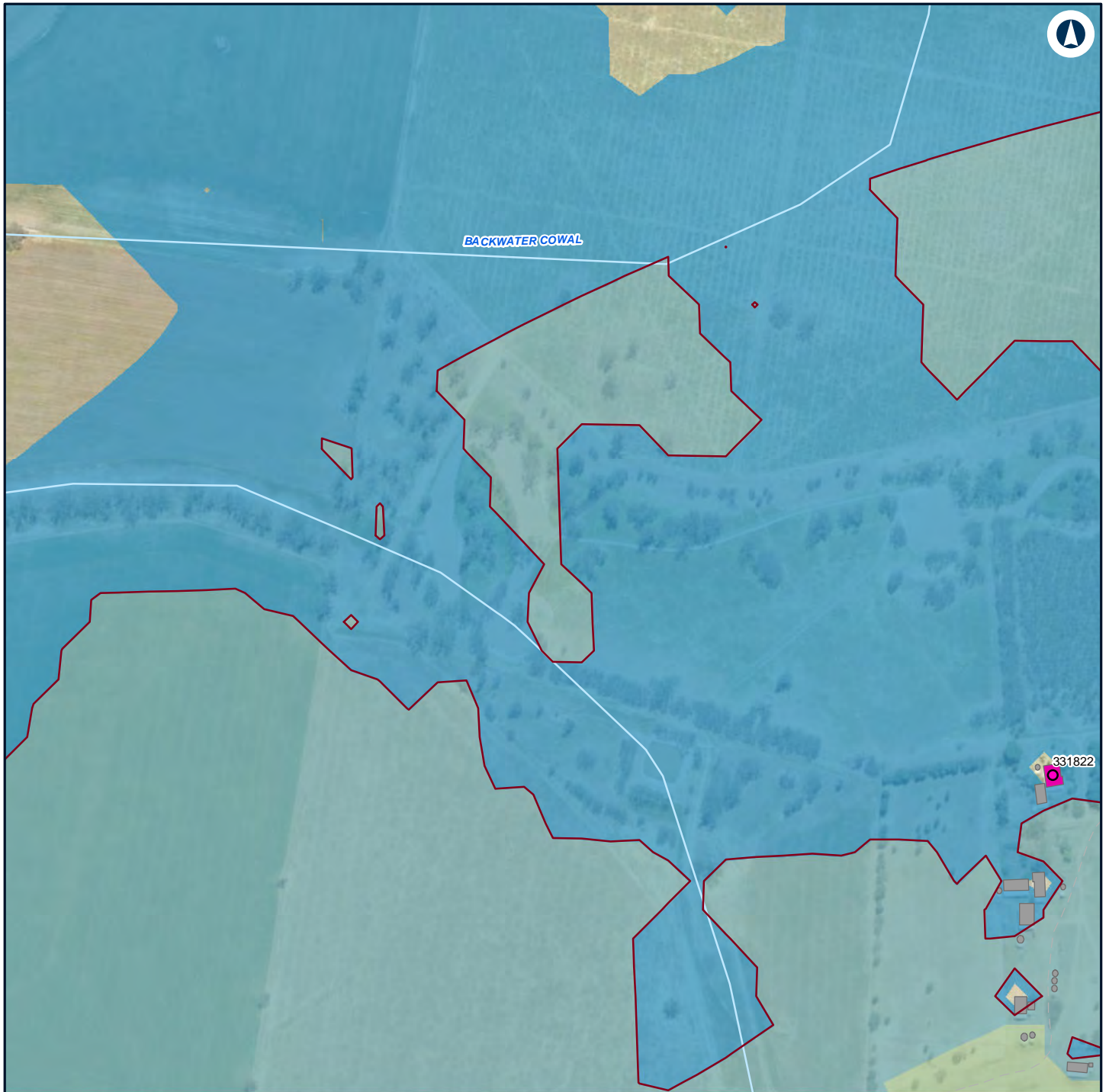
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Scale: 1:5,000

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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

Appendix G - Page 14 of 304

0 0.1 0.2
Km

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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

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
- 35 - 40



NARRMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 16 of 304

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
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 17 of 304

0 0.1 0.2
Km

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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

Appendix G - Page 18 of 304

0 0.1 0.2
Km

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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 19 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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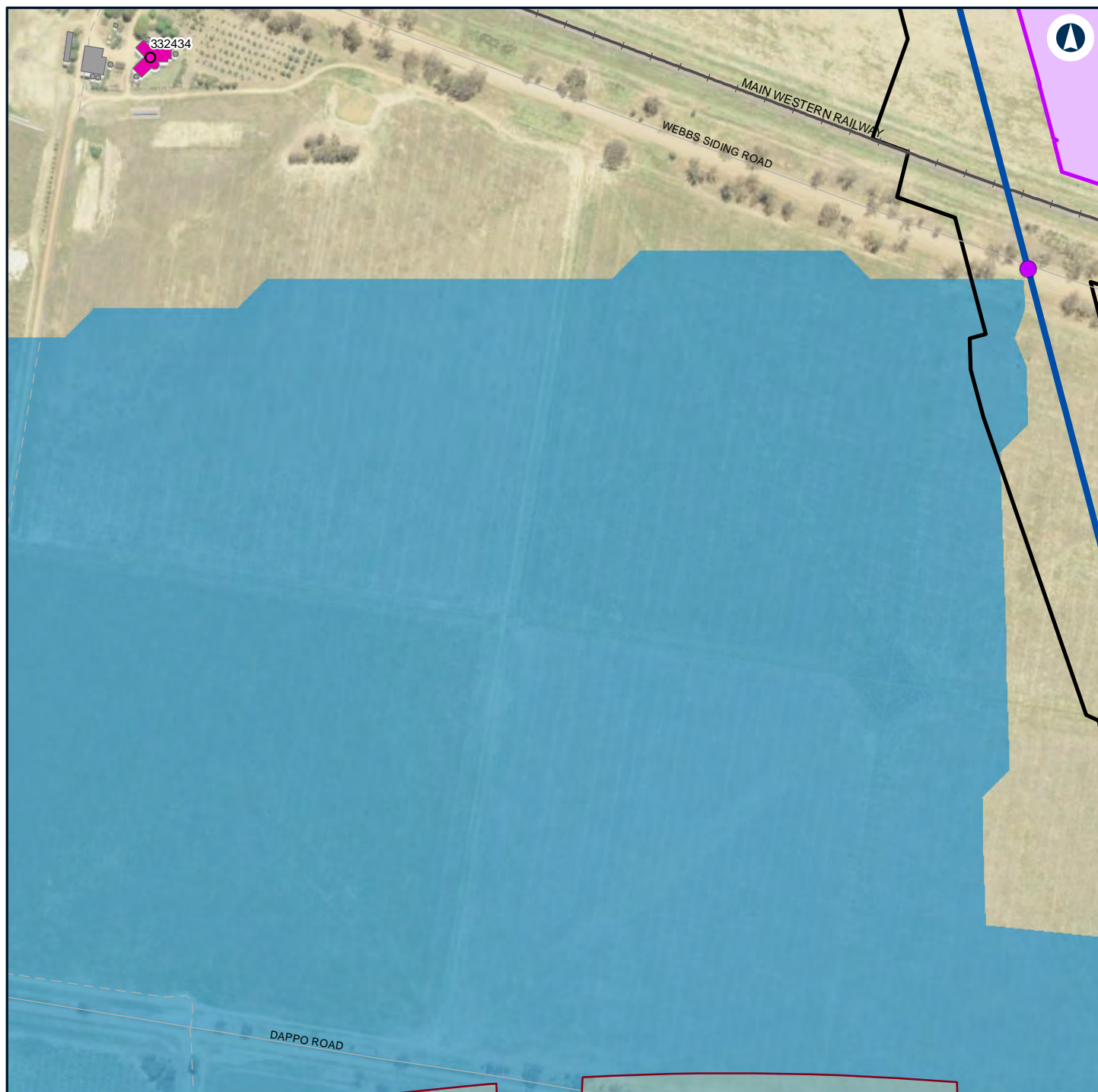
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 20 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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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 21 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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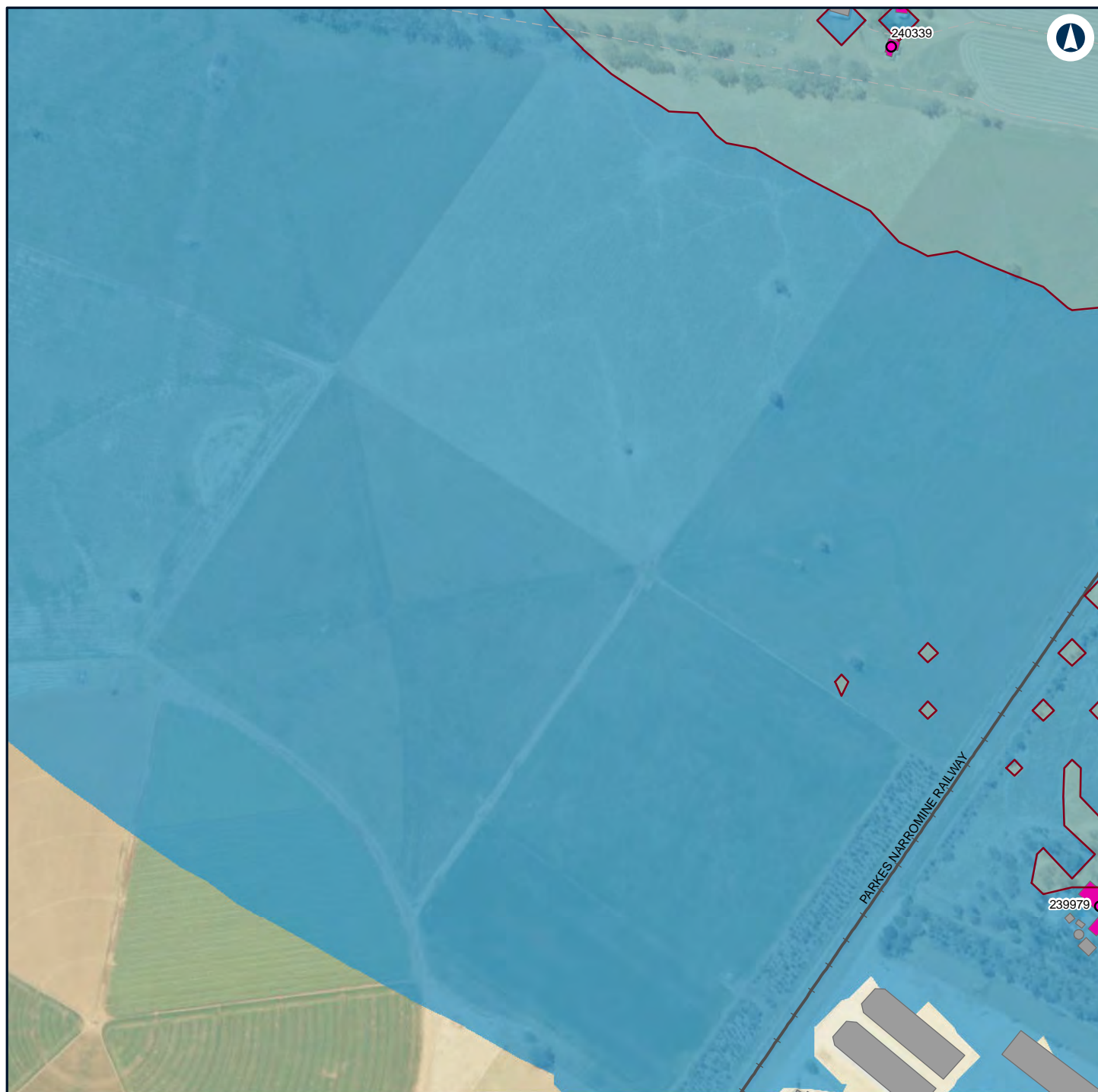
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LEGEND

Structure type 35 - 40

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 22 of 304

0 0.1 0.2
Km

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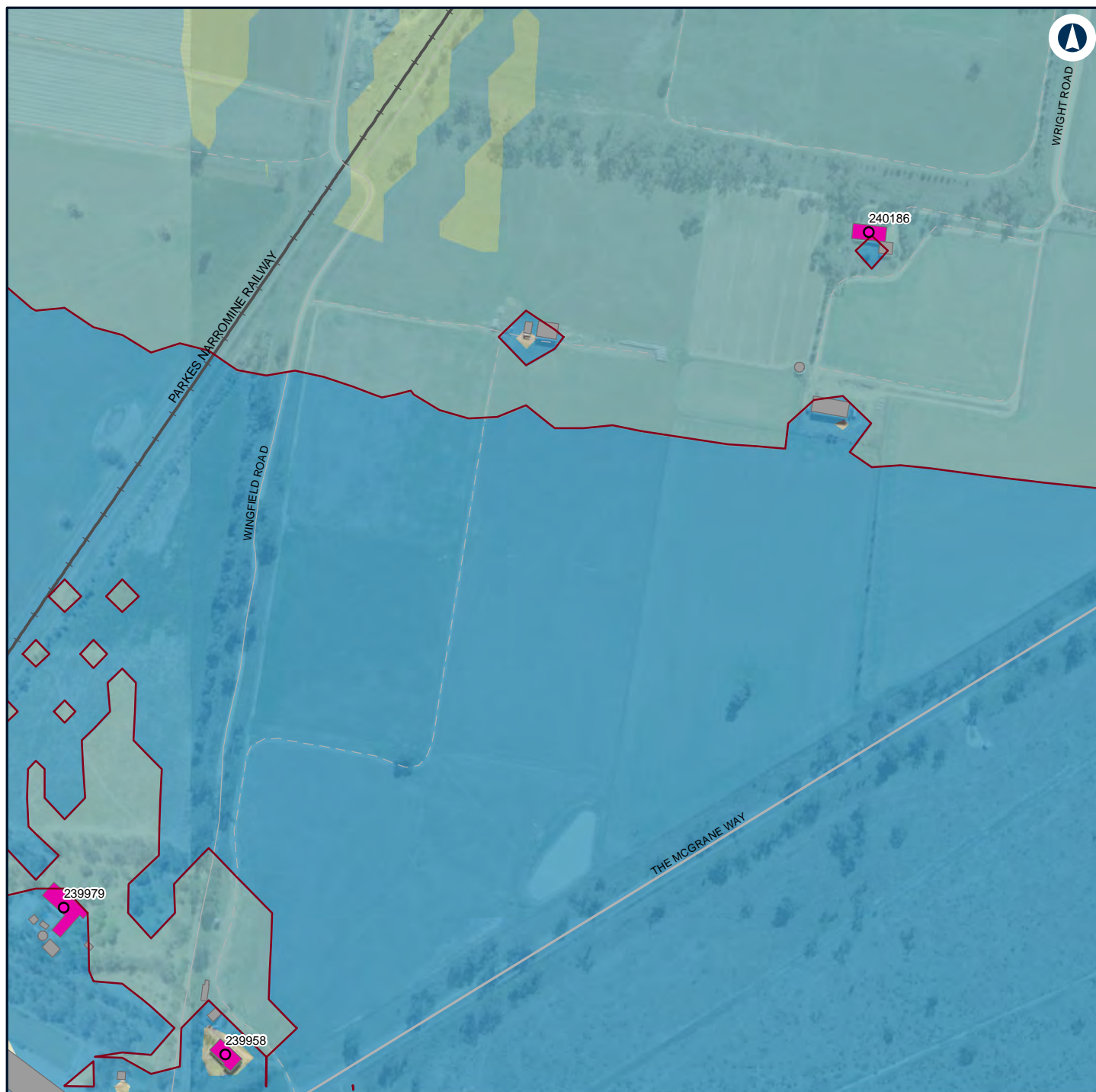
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LEGEND

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

Appendix G - Page 23 of 304

0 0.1 0.2
Km

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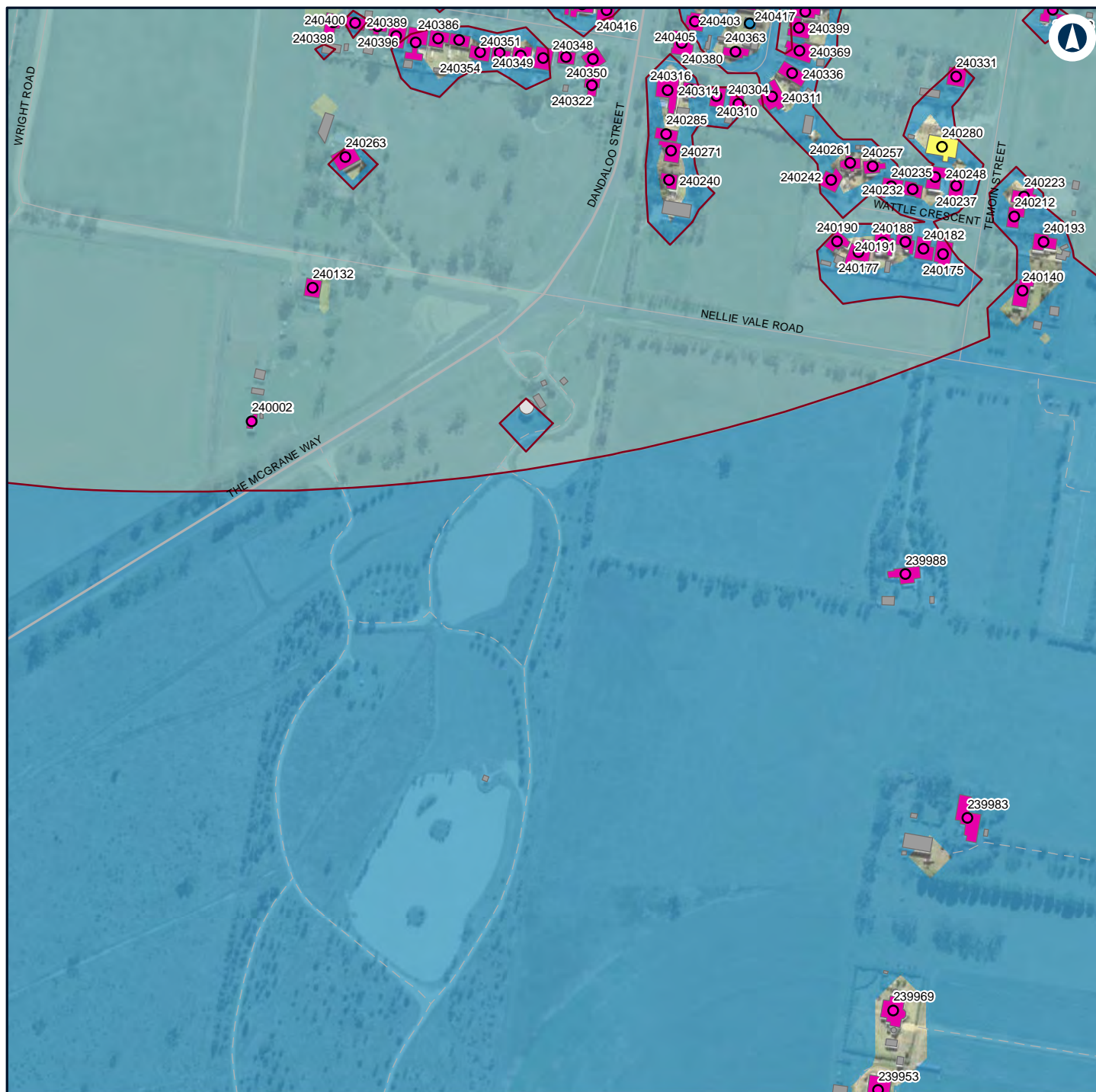
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

- Active recreation
- Community
- Residential
- Active recreation
- Commercial/Industrial

Community

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 24 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

Structure type

- Community
- Residential
- Commercial/Industrial
- Community
- Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 26 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

Construction footprint

Structure type

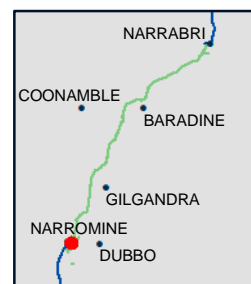
Residential

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

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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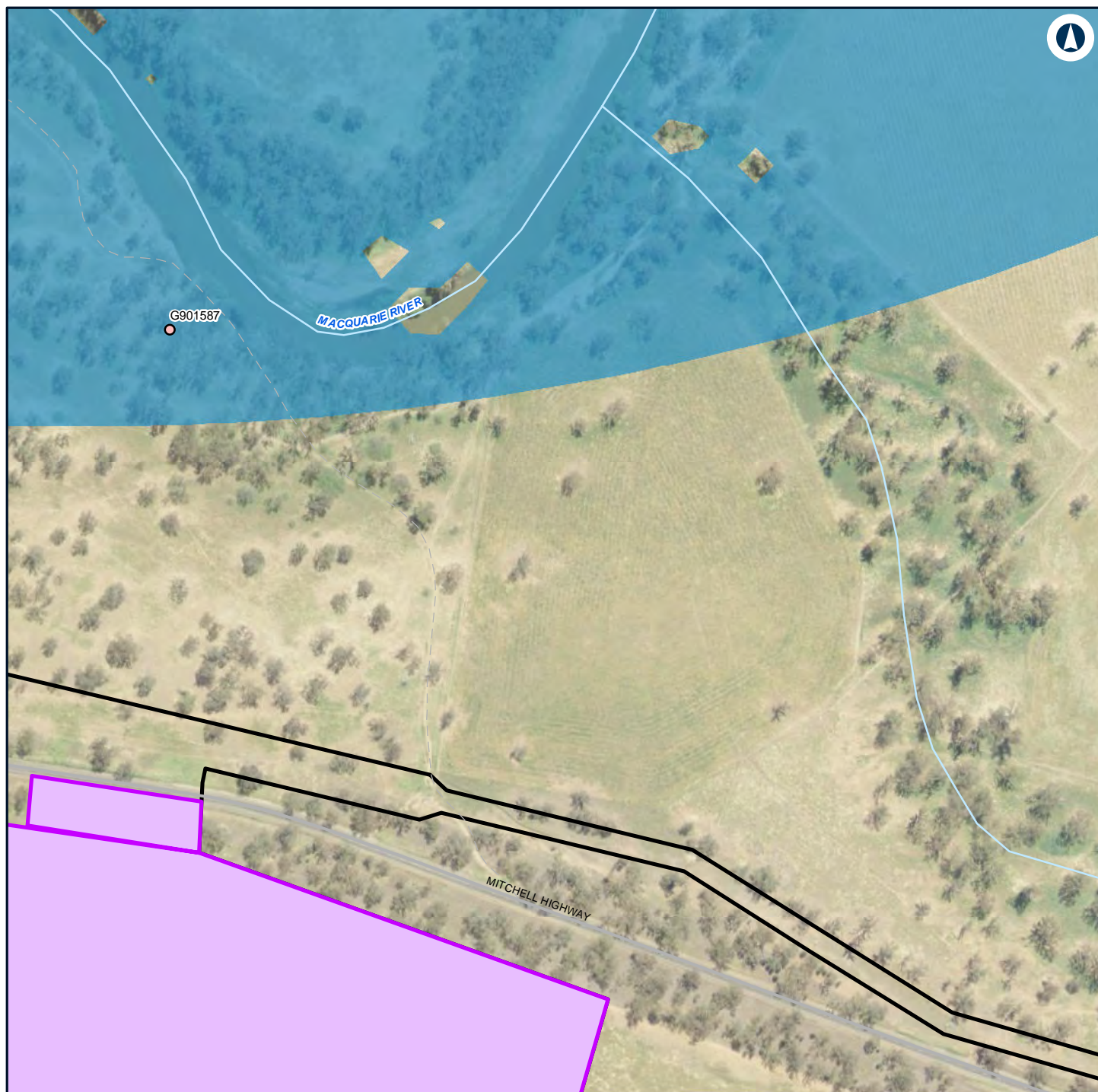
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LEGEND

Construction footprint

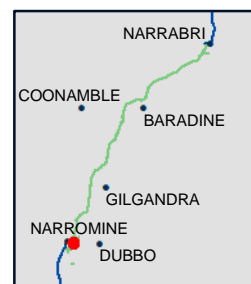
Structure type

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

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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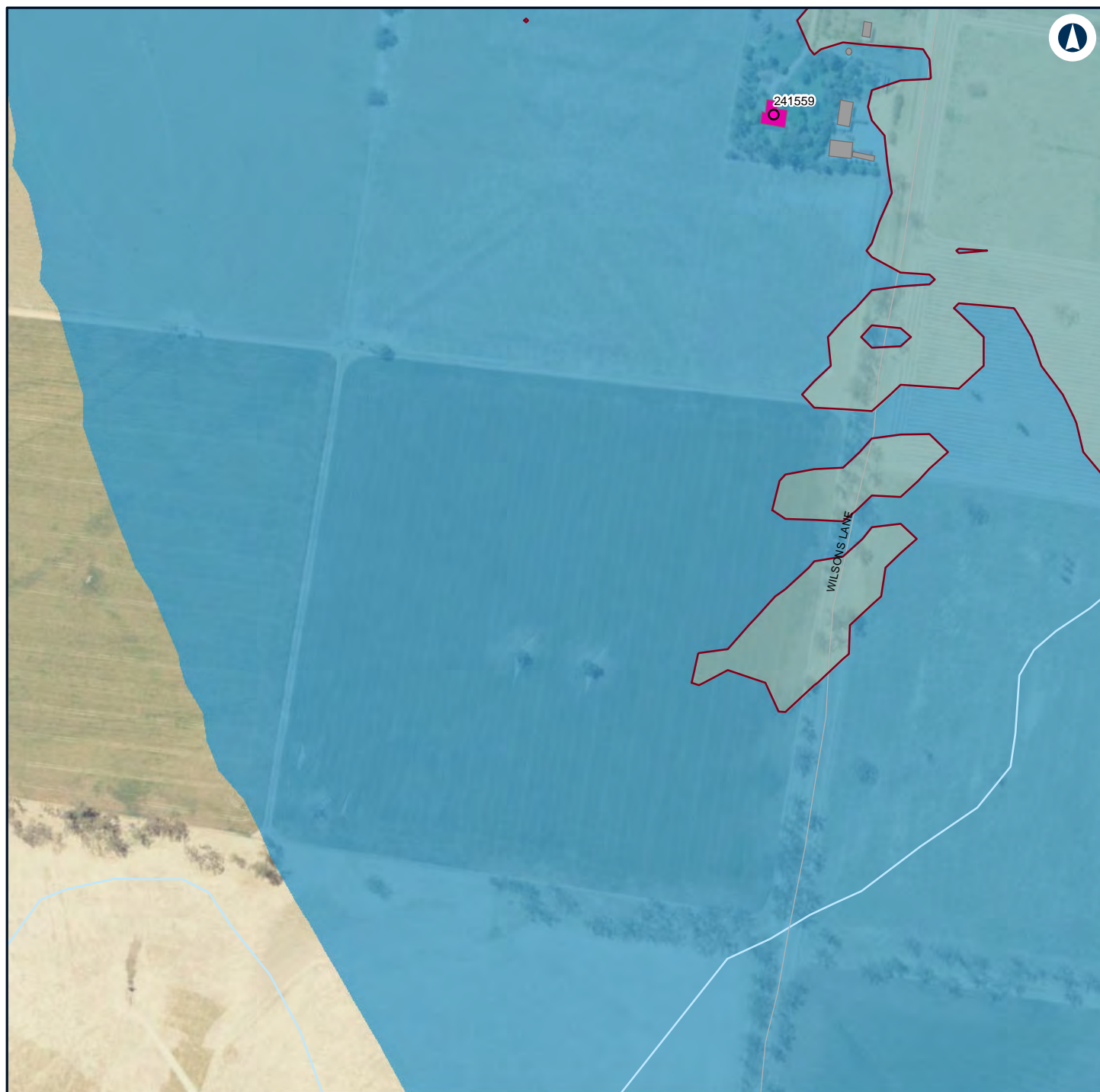
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LEGEND

Structure type 35 - 40

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 29 of 304

0 0.1 0.2 Km

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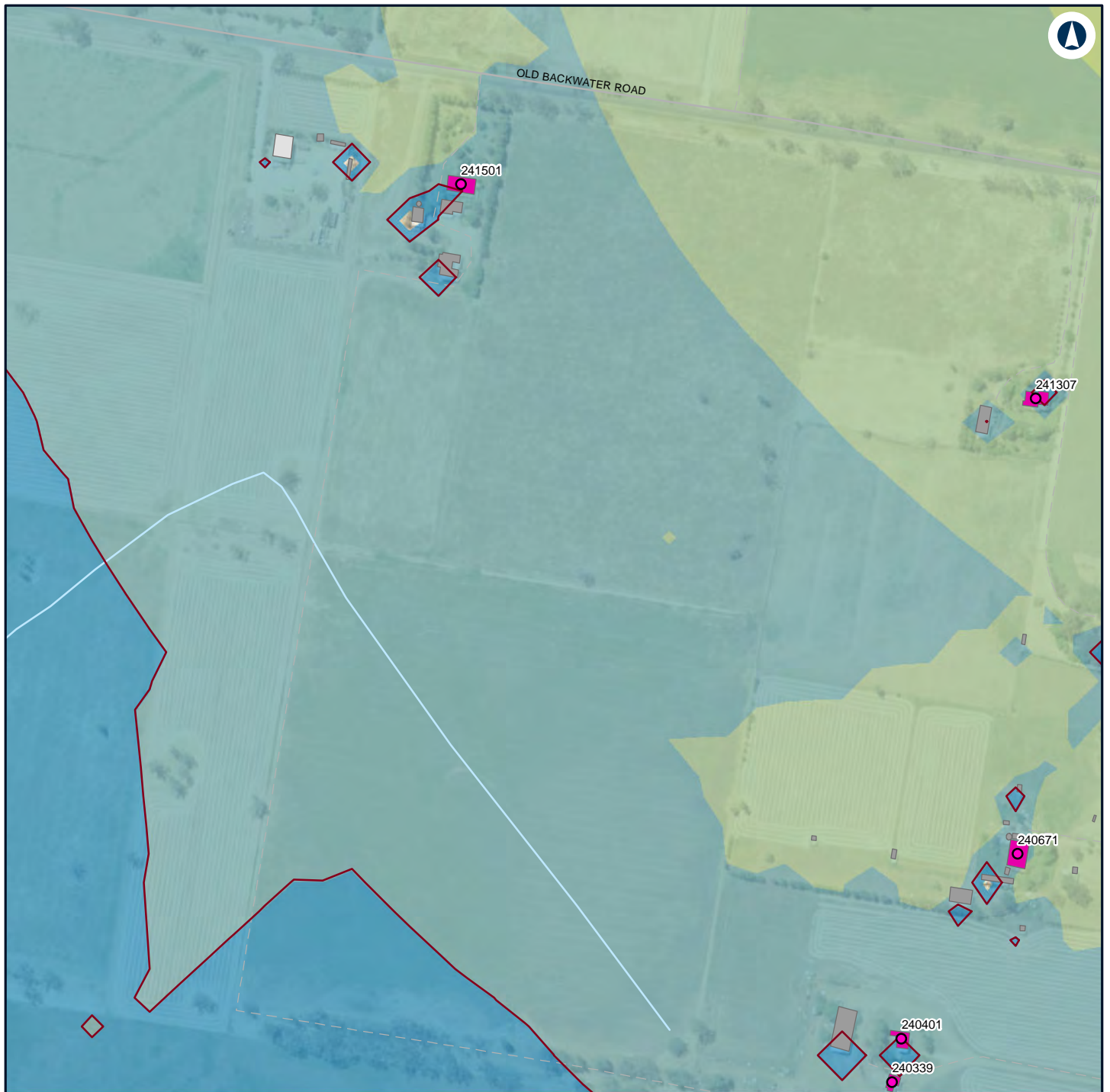
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 30 of 304

0 0.1 0.2
Km

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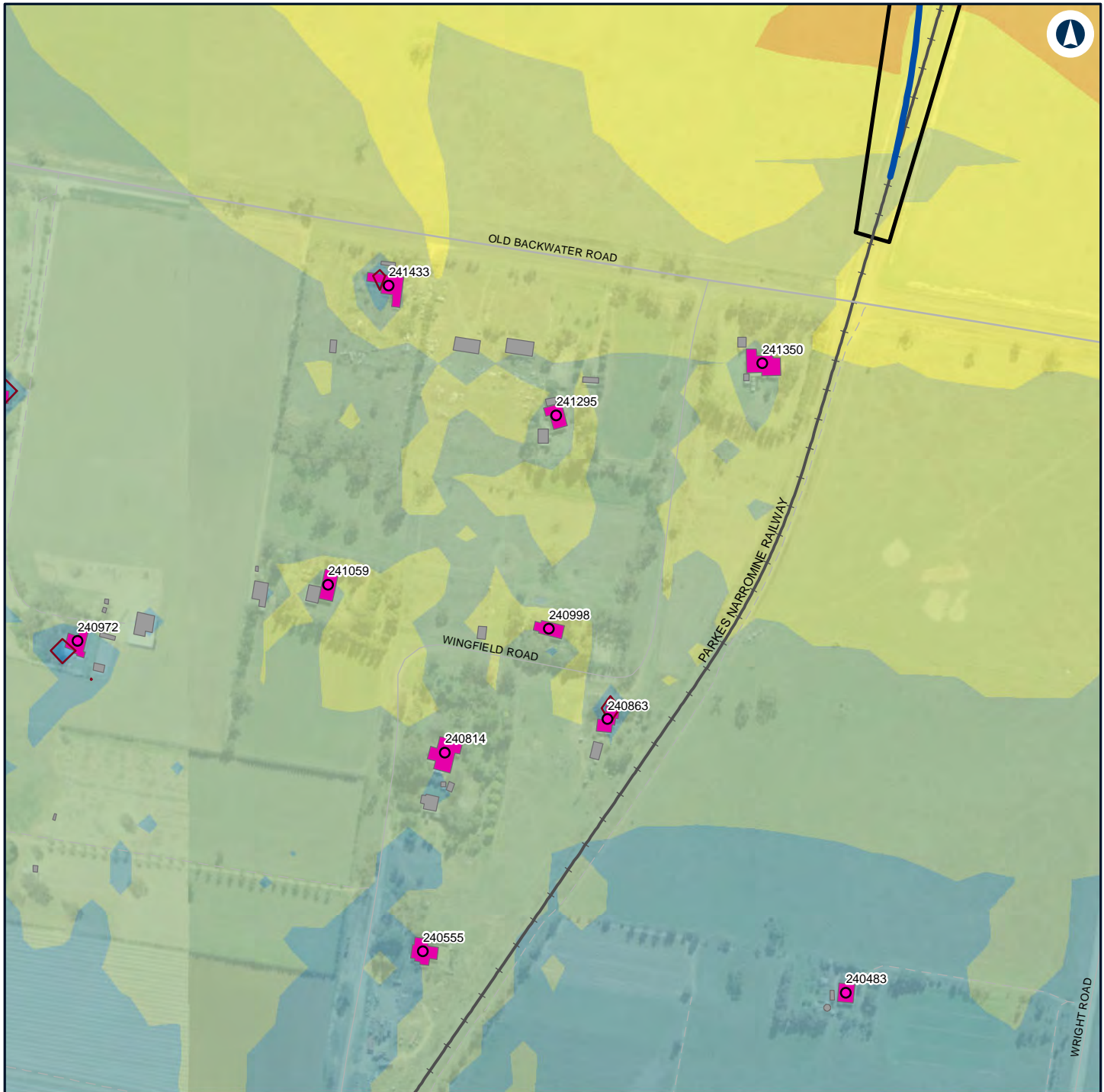
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 31 of 304

0 0.1 0.2
Km

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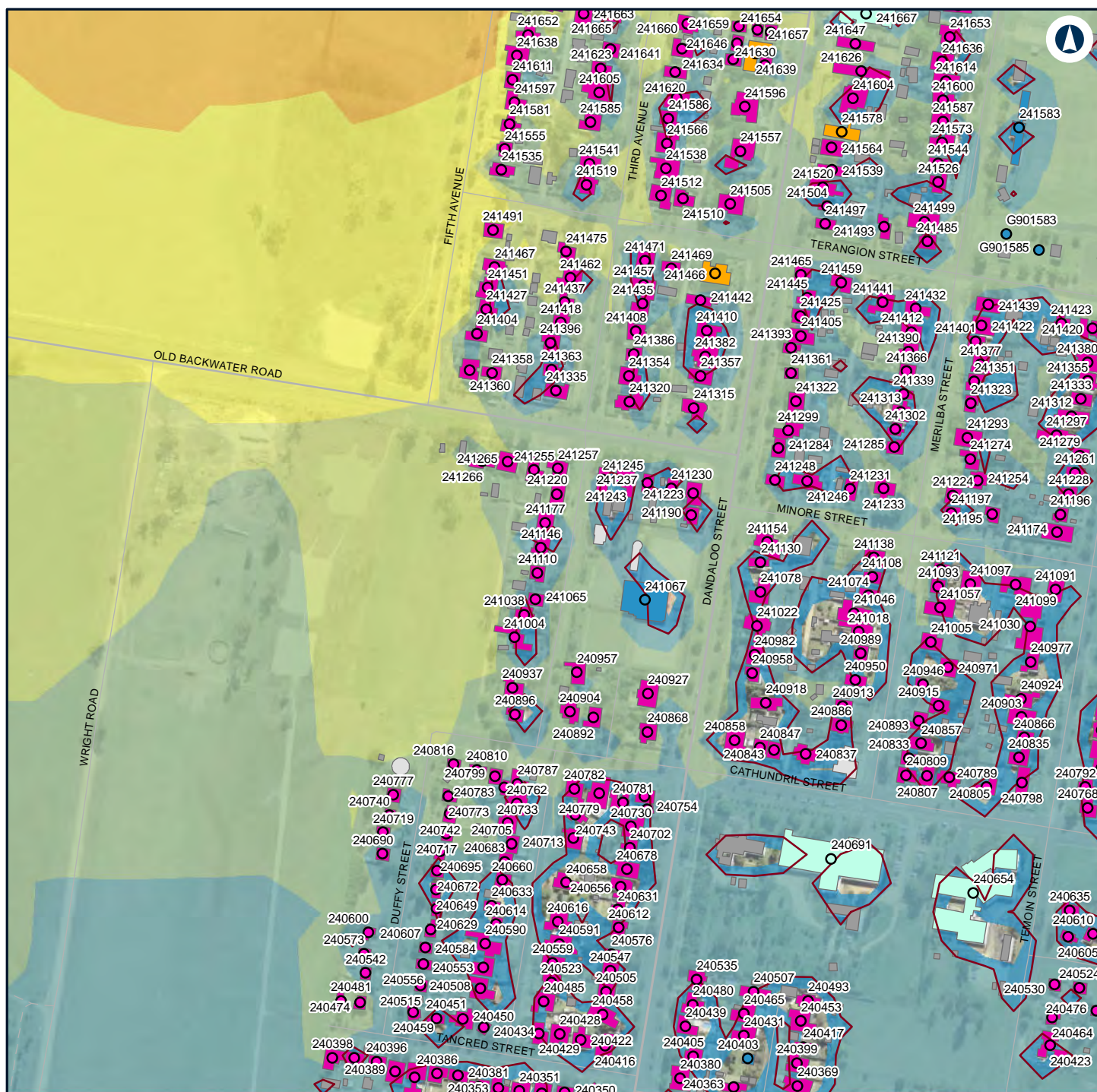
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LEGEND

Structure type

- Active recreation
- Health
- Residential
- Worship
- Active recreation
- Commercial/Industrial
- Health
- Other
- Residential
- Worship

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 ROAD03 - Road Earthworks

Appendix G - Page 32 of 304

0 0.1 0.2 Km

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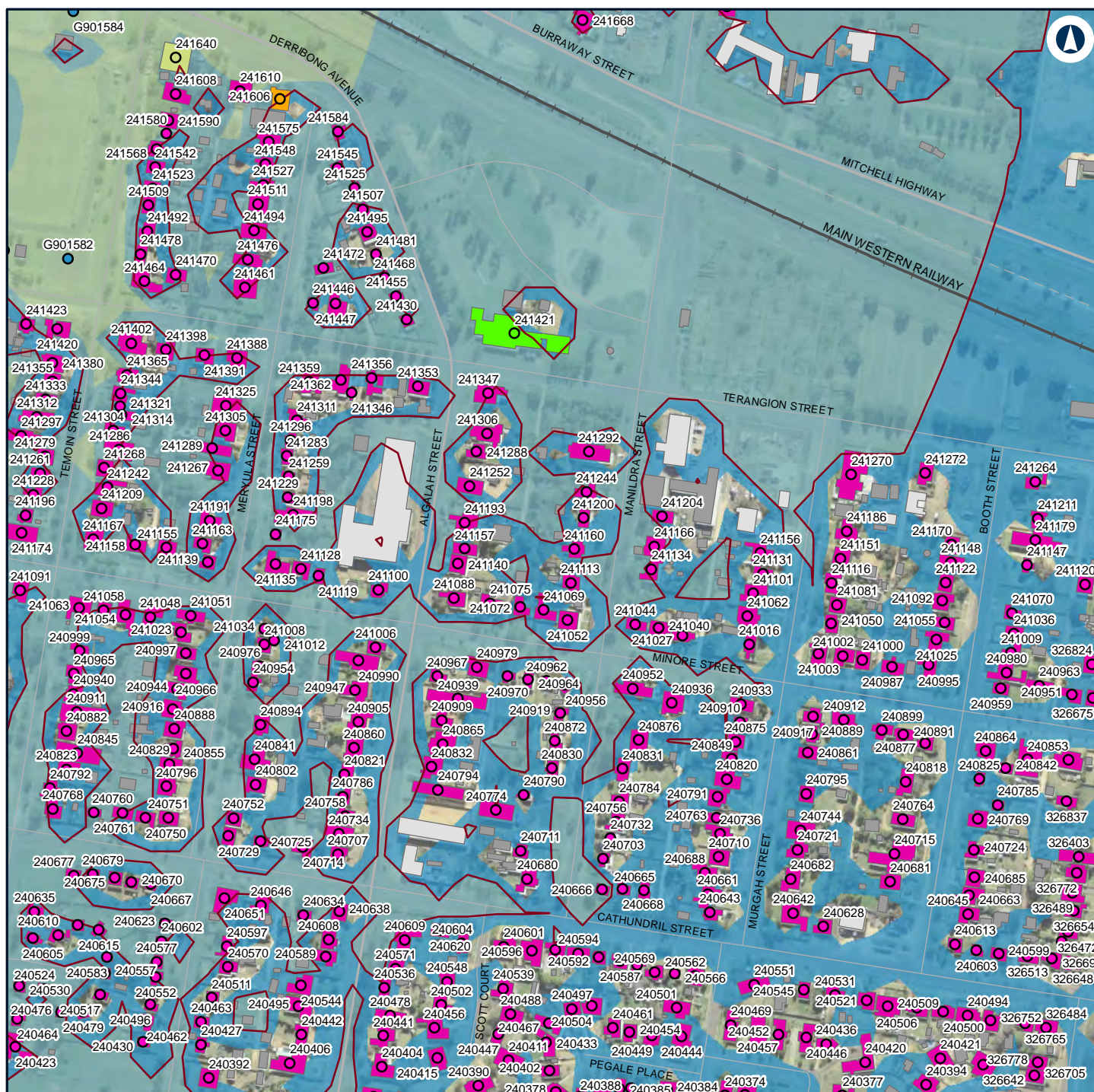
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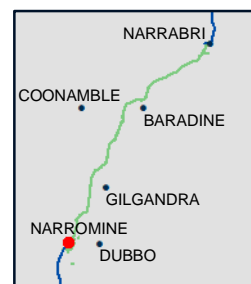
LEGEND

Structure type

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

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 33 of 304

0 0.1 0.2 Km

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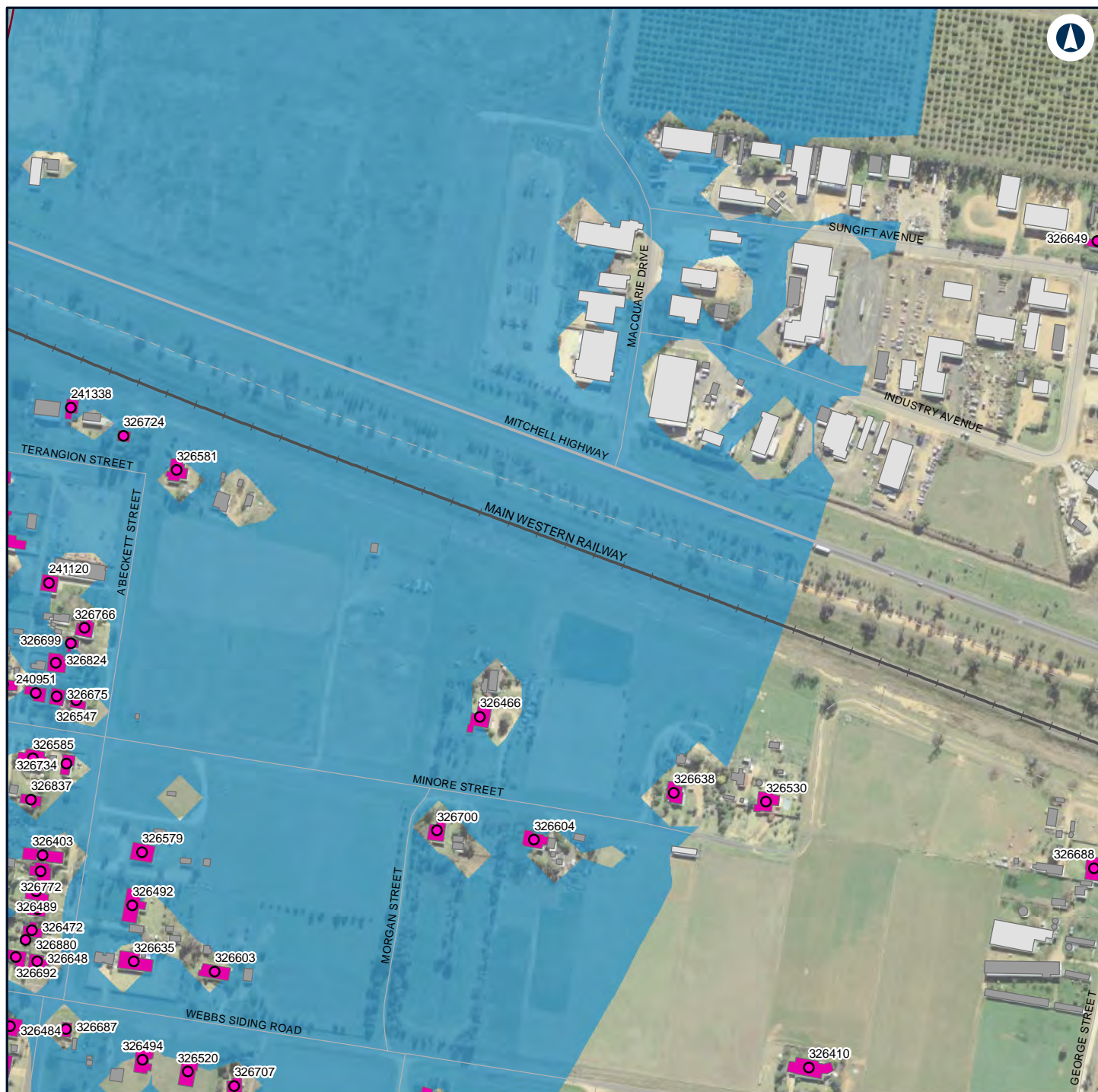
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 34 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 16/07/2020

Paper: A4

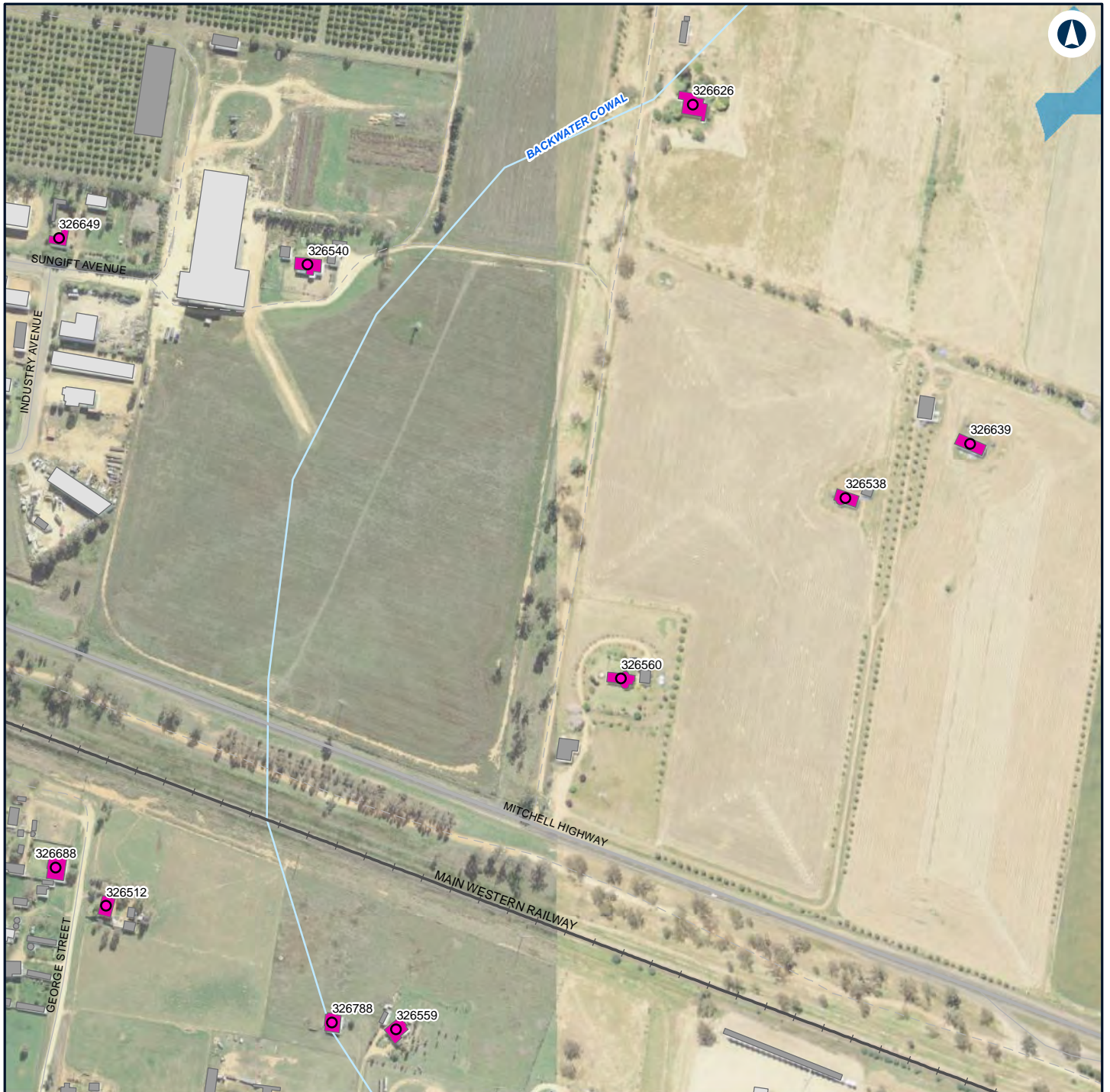
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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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

Appendix G - Page 35 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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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

Appendix G - Page 36 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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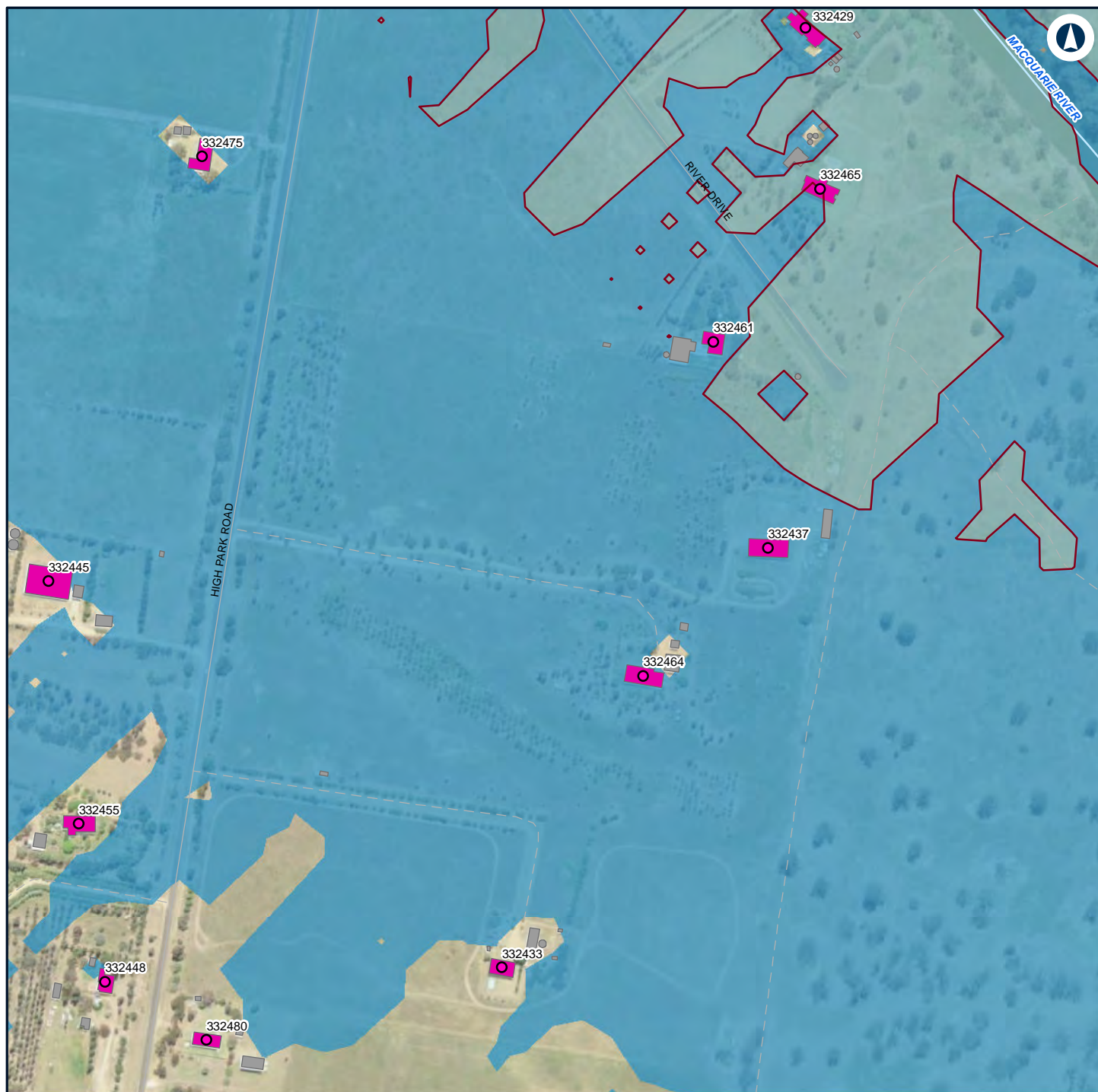
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LEGEND

Structure type 35 - 40

● 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

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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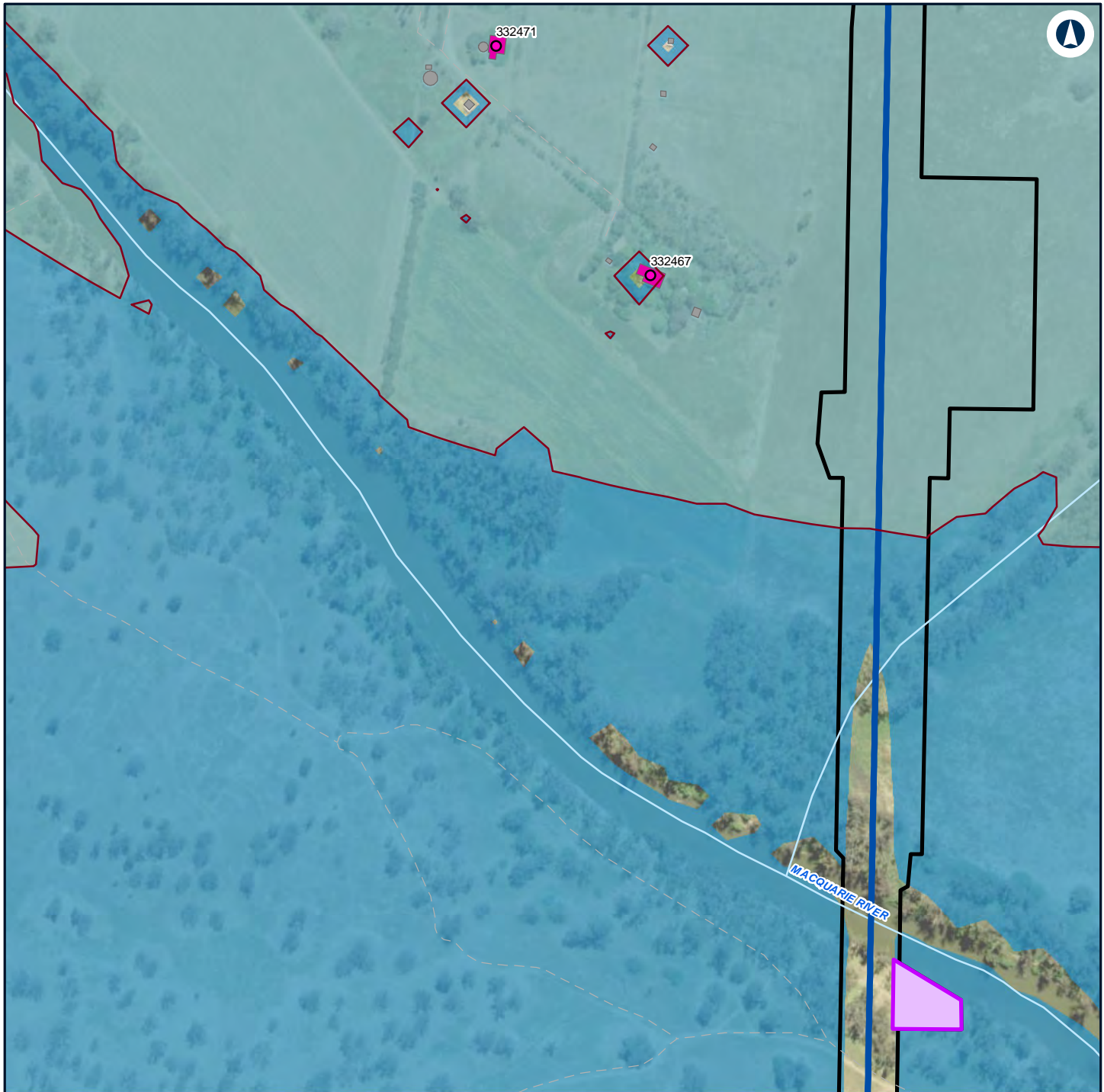
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 38 of 304

0 0.1 0.2 Km

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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 39 of 304

0 0.1 0.2
Km

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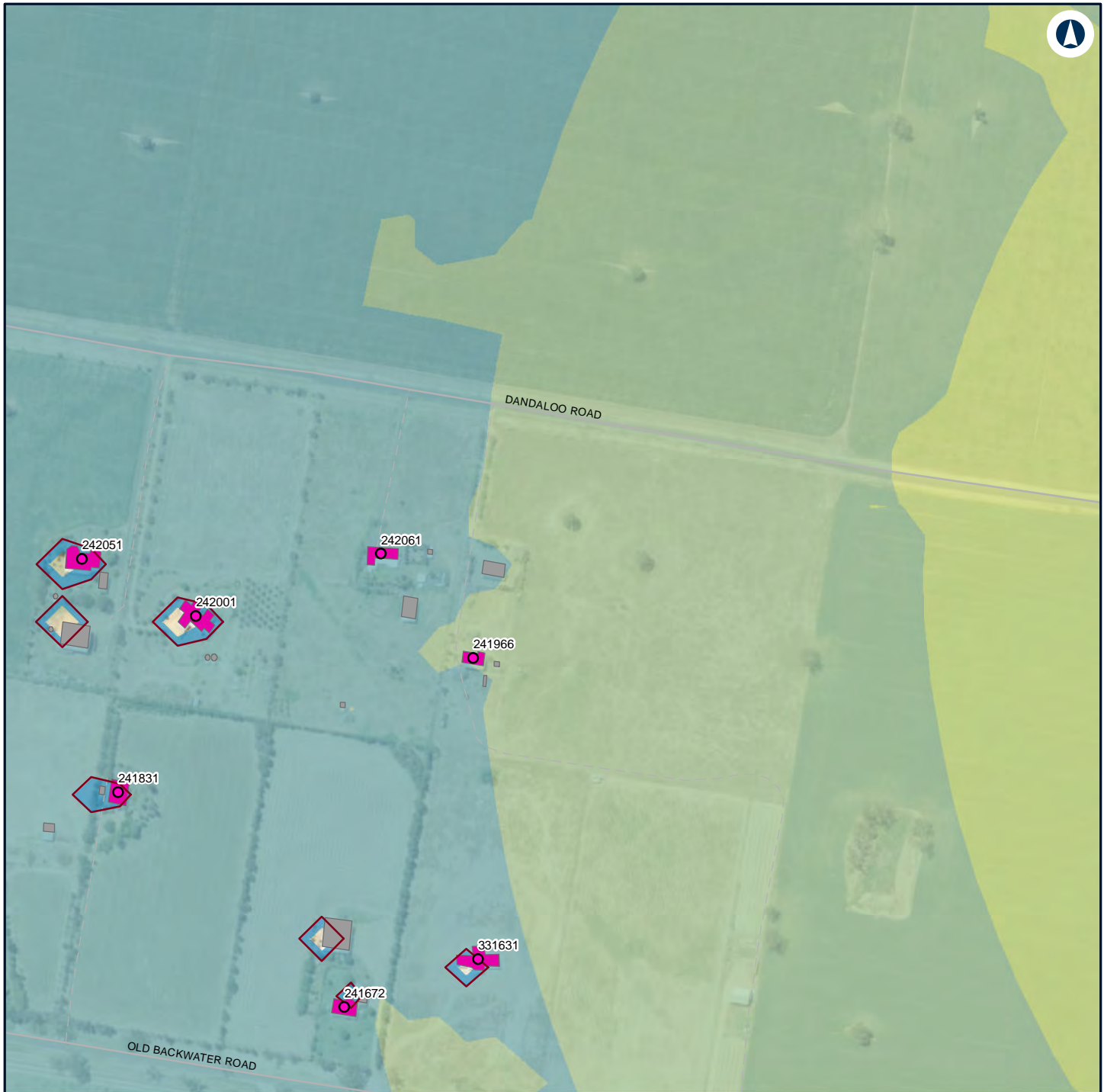
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LEGEND

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

Appendix G - Page 40 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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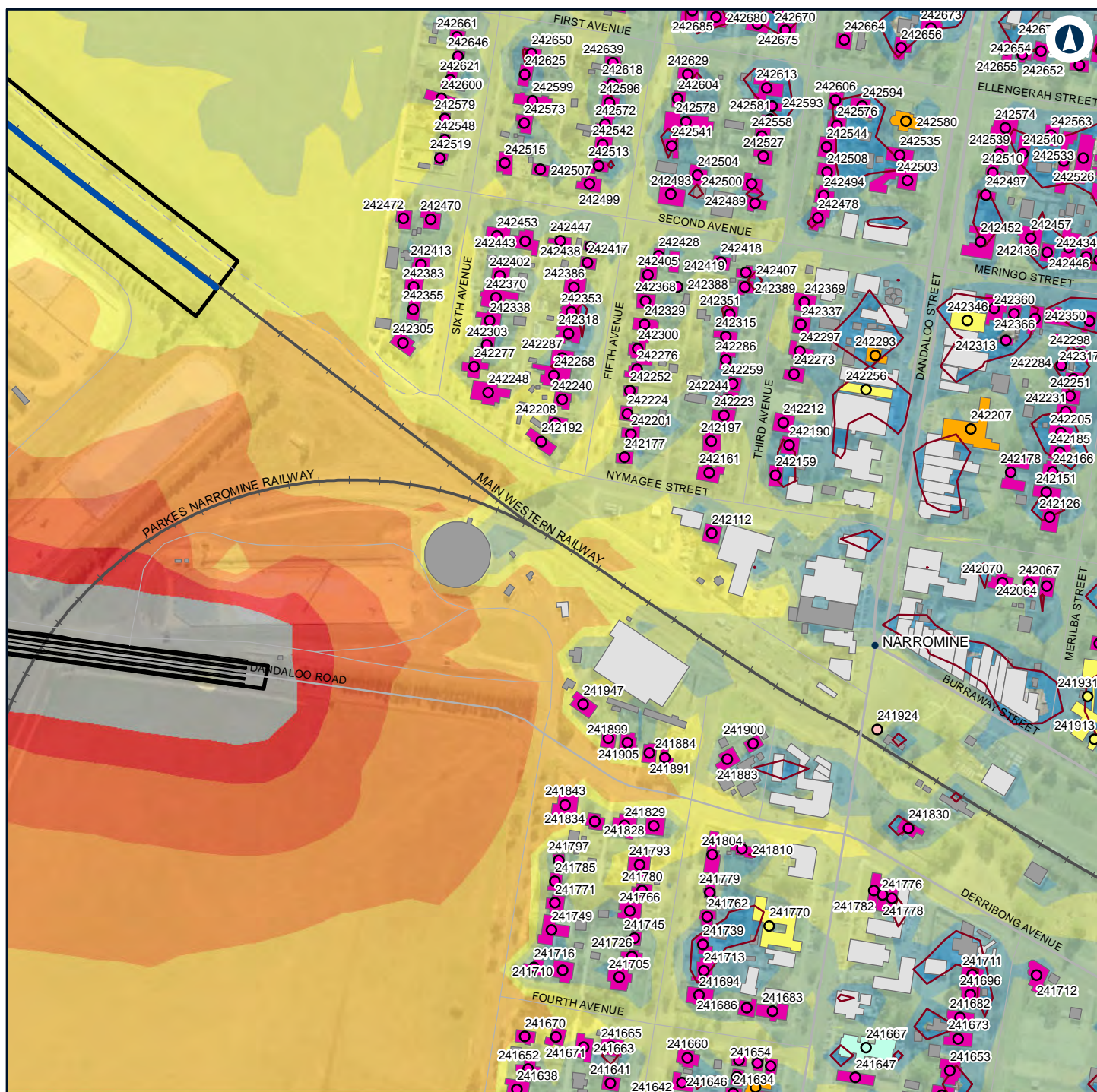
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LEGEND

Alignment

Road design string

Construction footprint

Structure type

Community

Health

Passive recreation

Residential

Worship

Commercial/Industrial

Community

Educational

Health

Other

Passive recreation

Residential

Worship

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 ROAD03 - Road Earthworks

Appendix G - Page 41 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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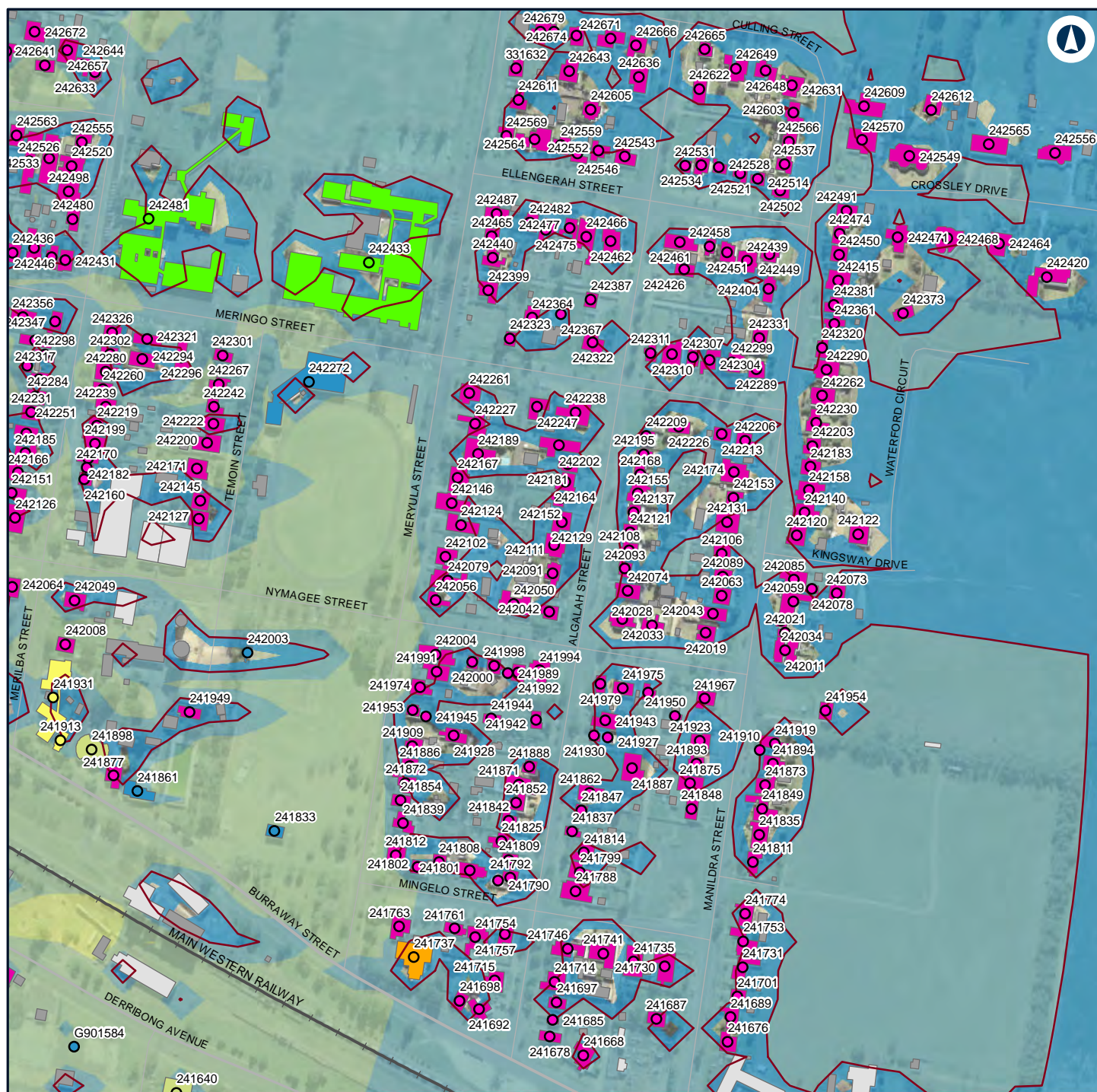
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type

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

Noise level (dBA L
Aeq 15 minute)



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 42 of 304



Coordinate System: GDA 1994 MGA Zone 55

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Author: GH

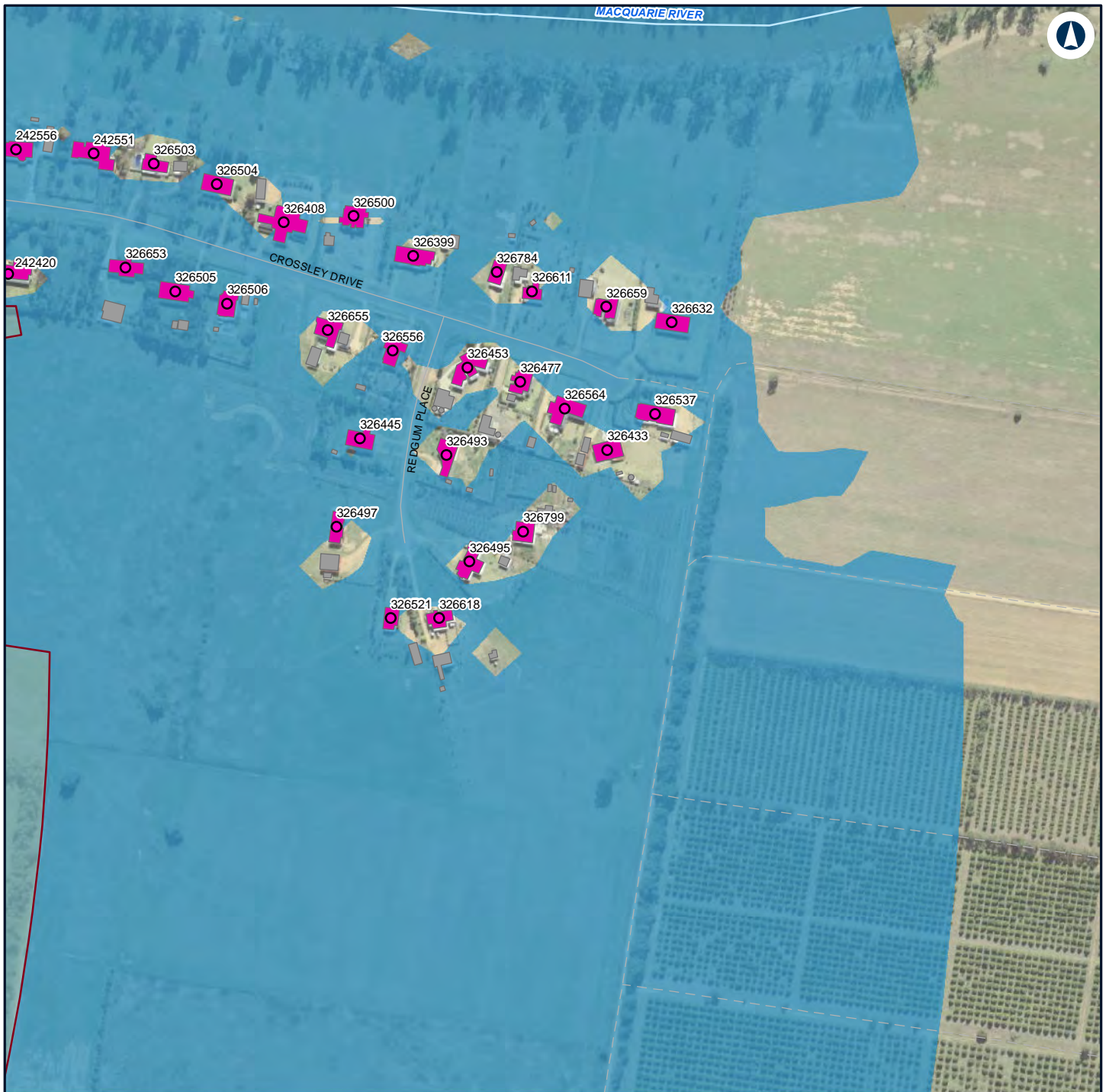
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

Structure type 35 - 40

● Residential

■ Other

■ Residential

Noise level (dBA L

Aeq 15 minute)

■ 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 43 of 304

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

Appendix G - Page 44 of 304

0 0.1 0.2
Km

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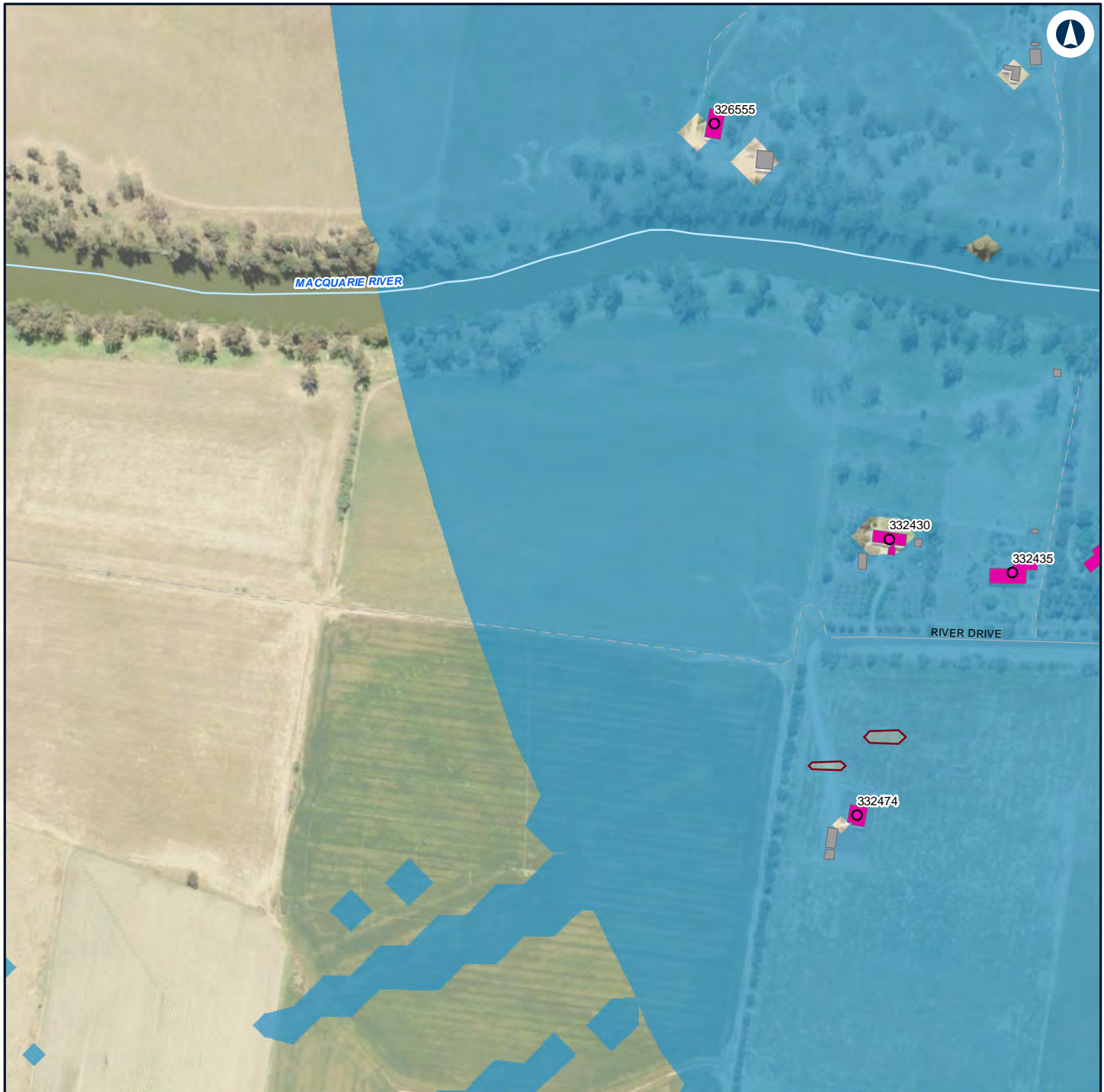
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LEGEND

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 45 of 304

0 0.1 0.2
Km

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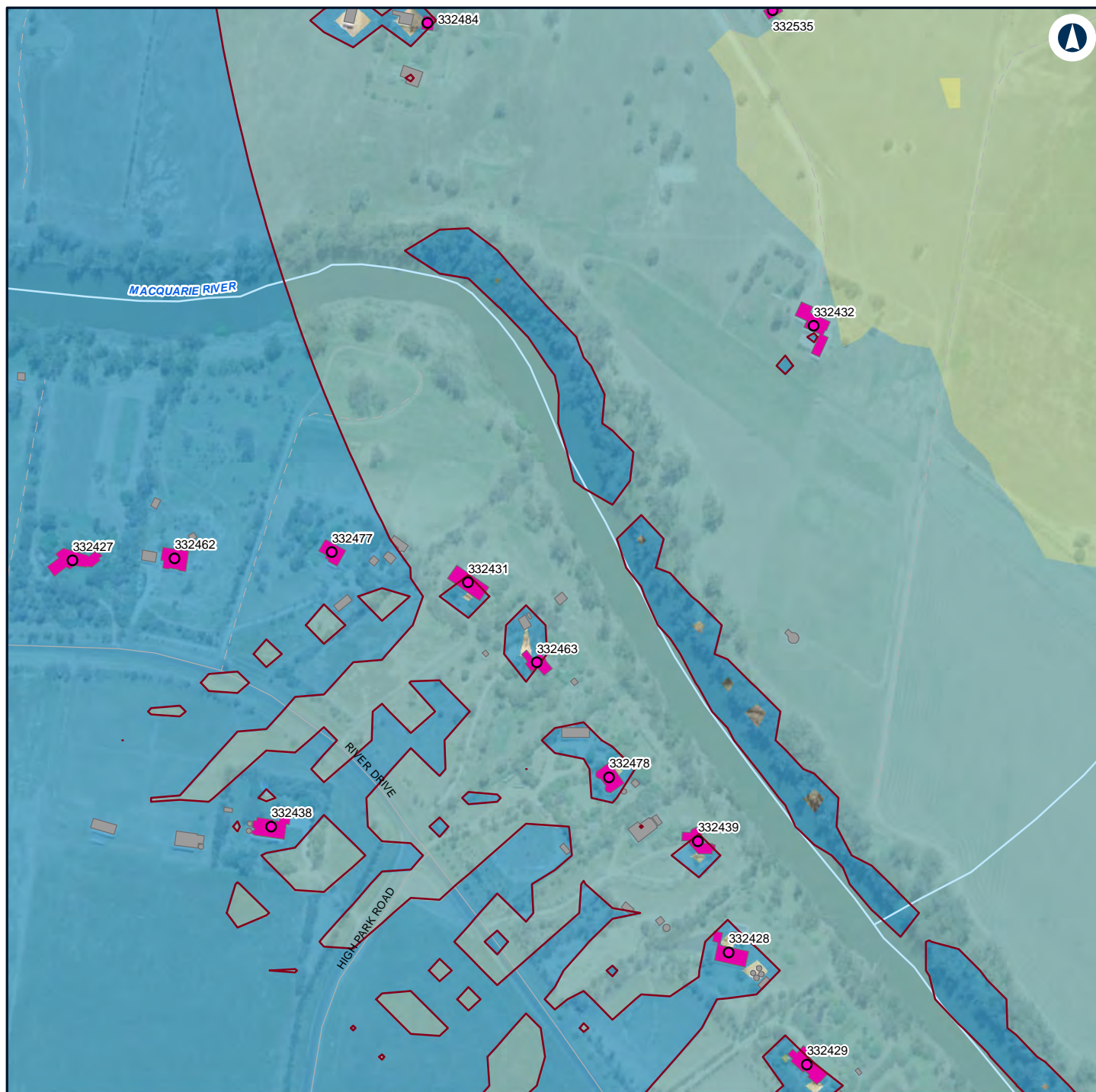
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

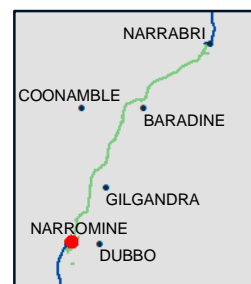
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LEGEND

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

Appendix G - Page 46 of 304

0 0.1 0.2
Km

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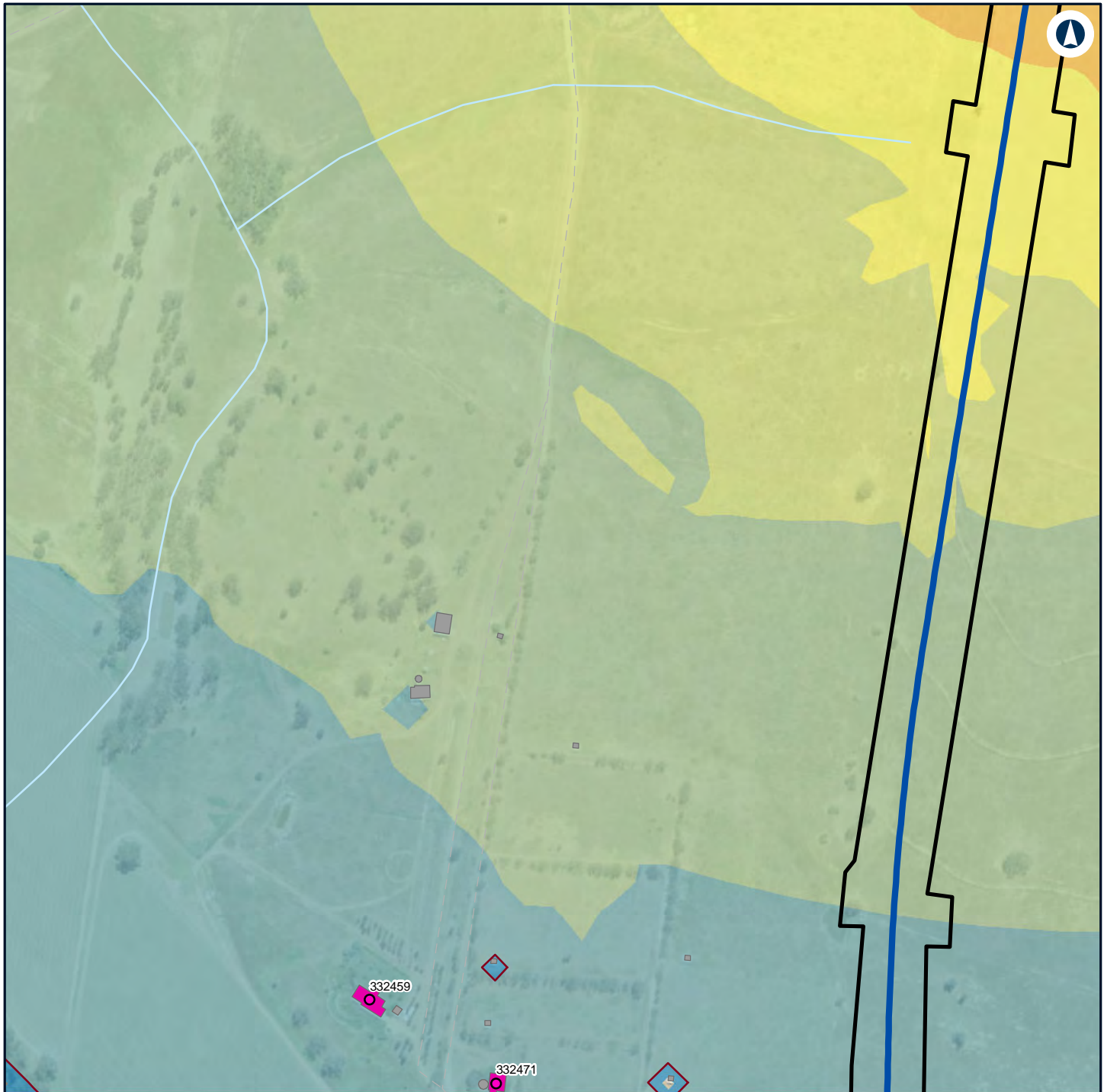
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L Aeq 15 minute)

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 47 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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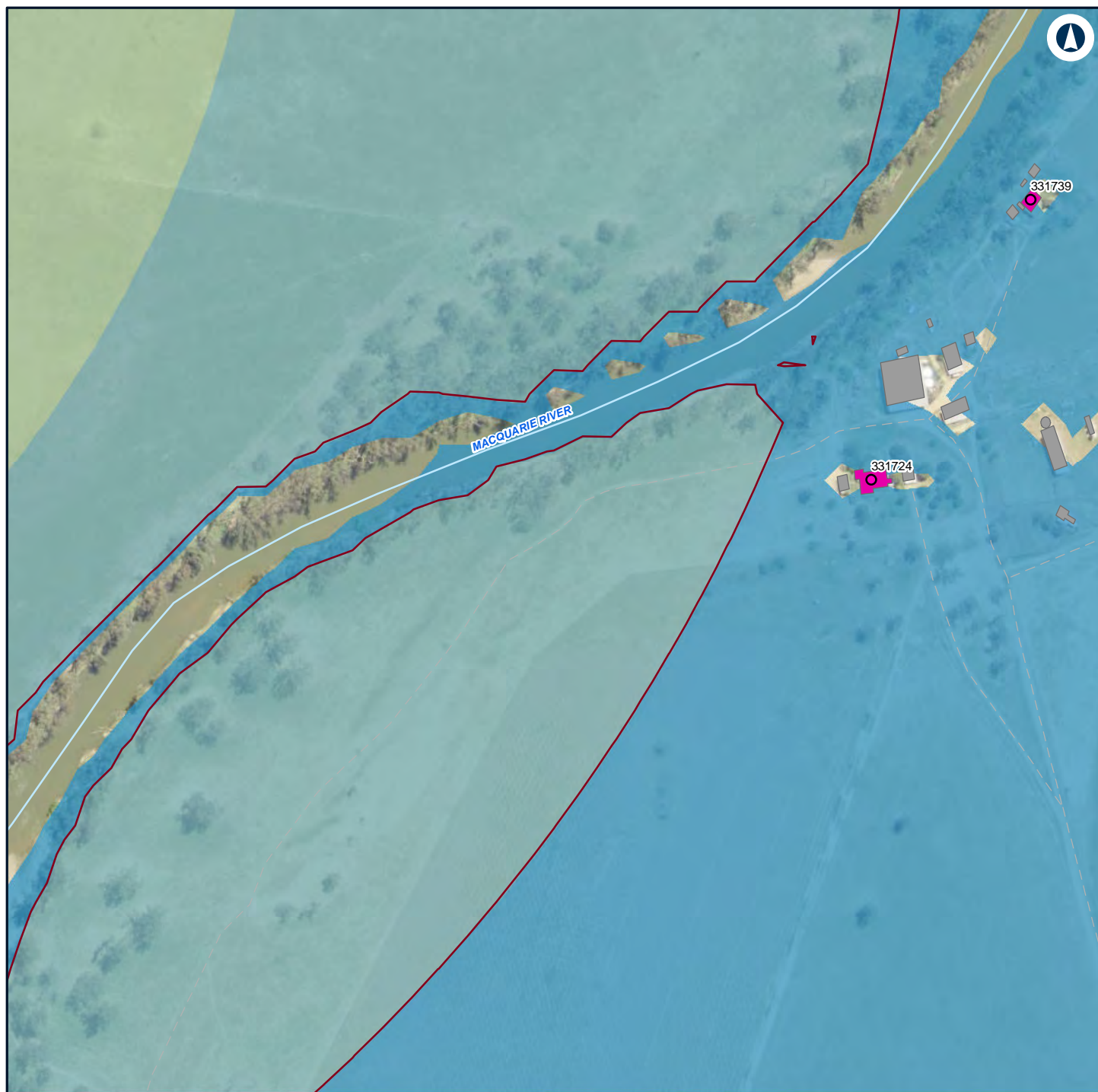
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 48 of 304

0 0.1 0.2 Km

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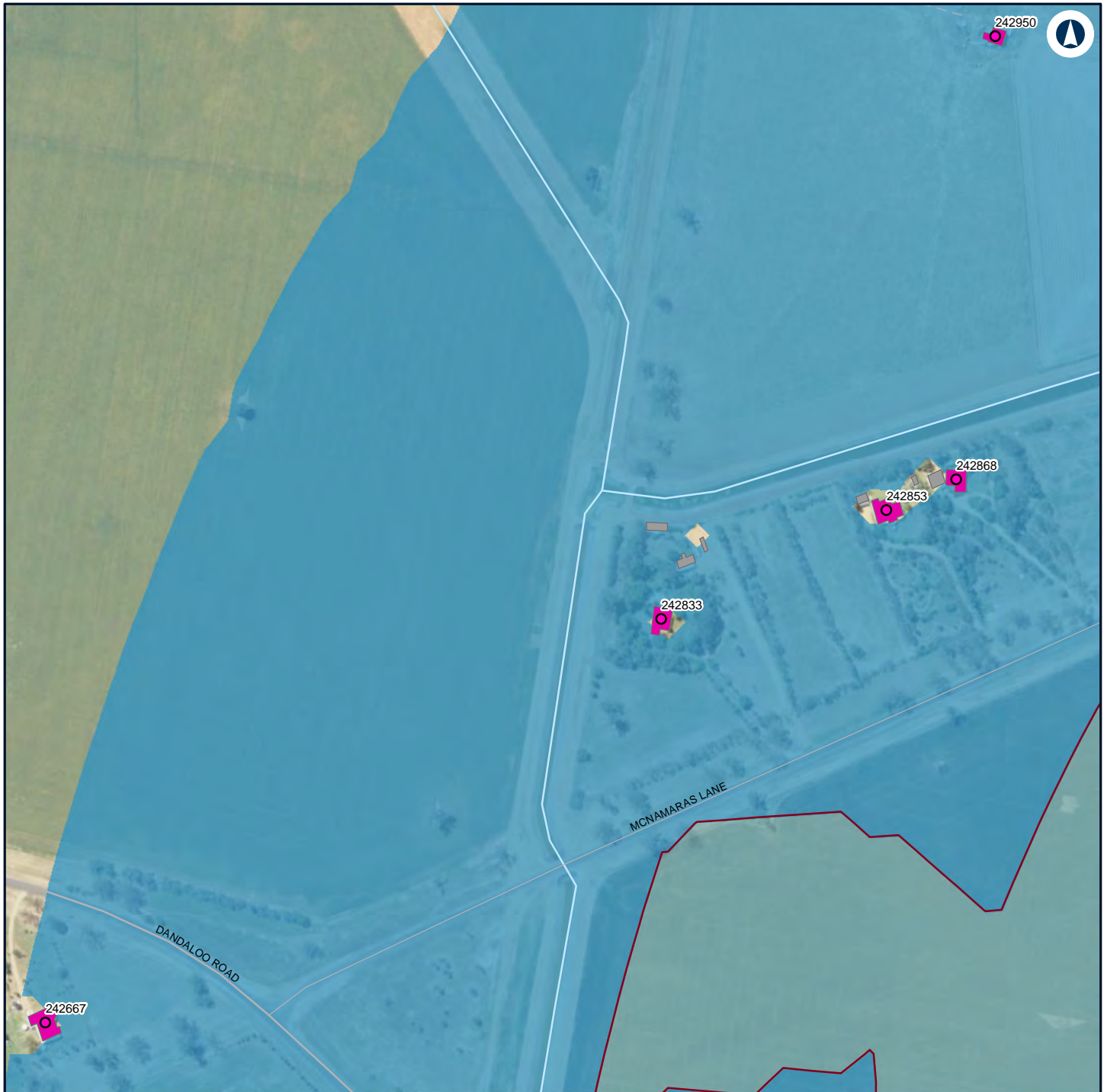
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LEGEND

- 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 49 of 304

0 0.1 0.2
Km

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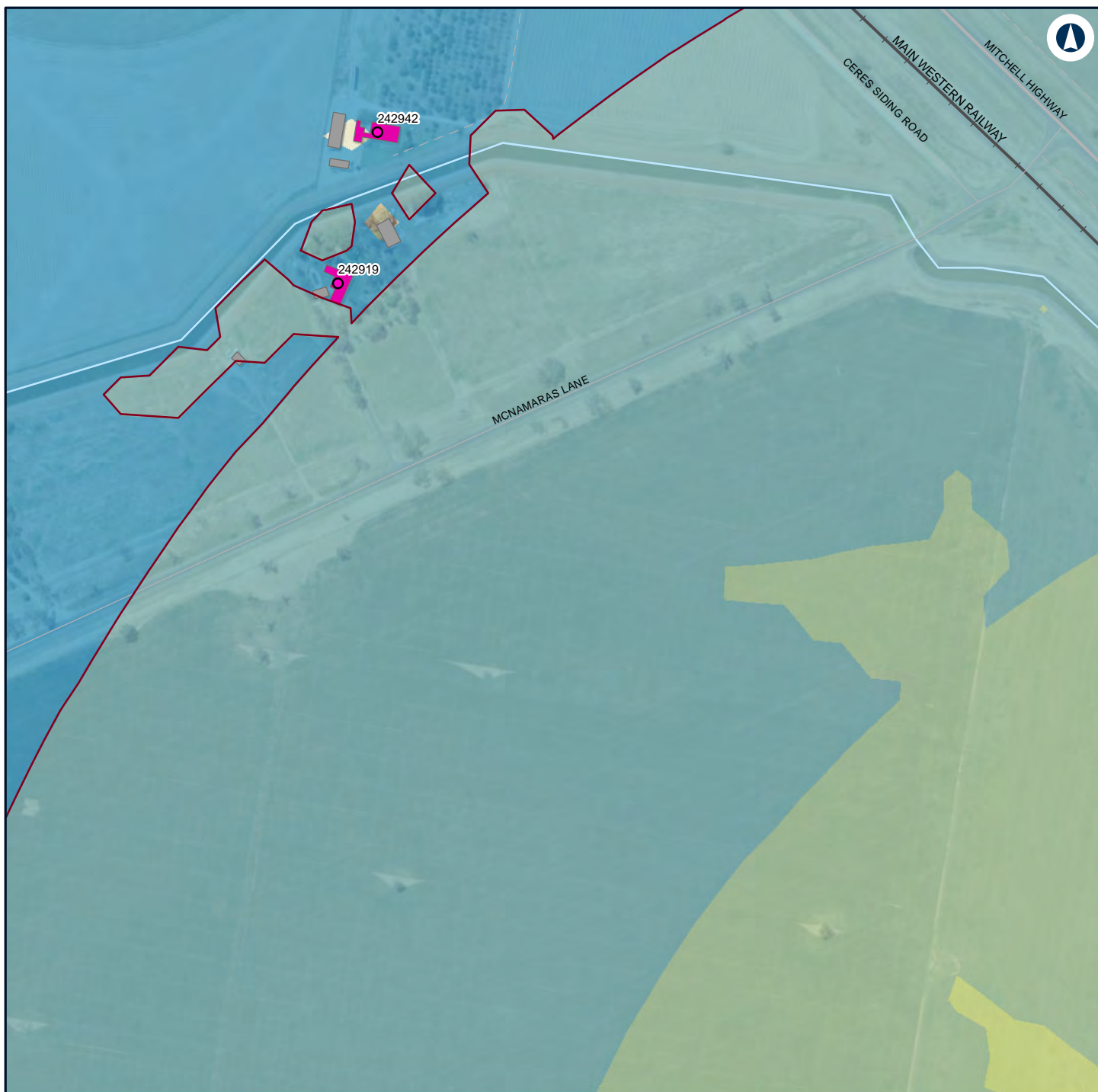
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LEGEND

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

Appendix G - Page 50 of 304

0 0.1 0.2
Km

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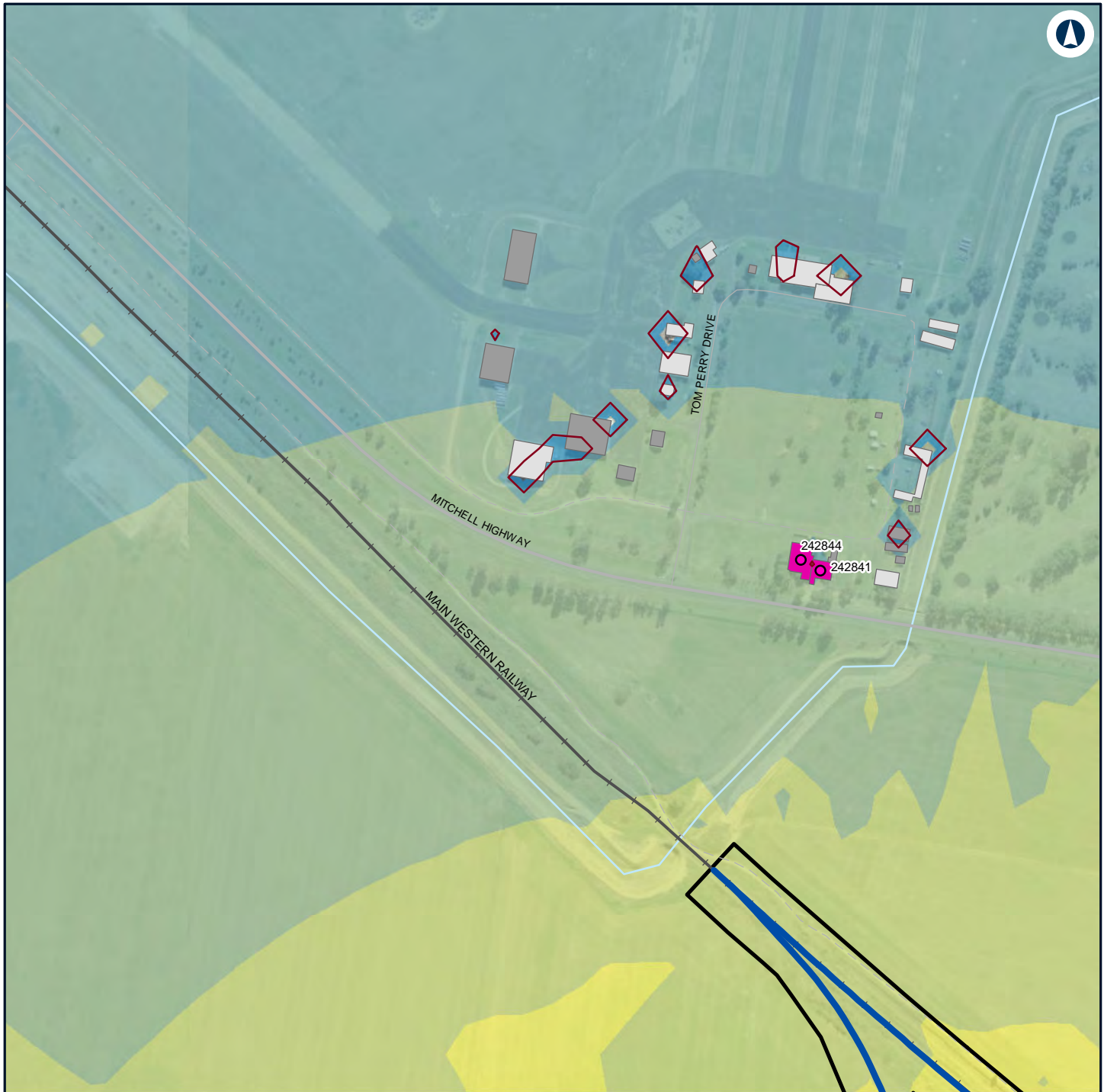
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LEGEND

- Alignment
- Construction footprint
- Structure type**
 - Residential
 - Commercial/Industrial
 - Other
- 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

Appendix G - Page 51 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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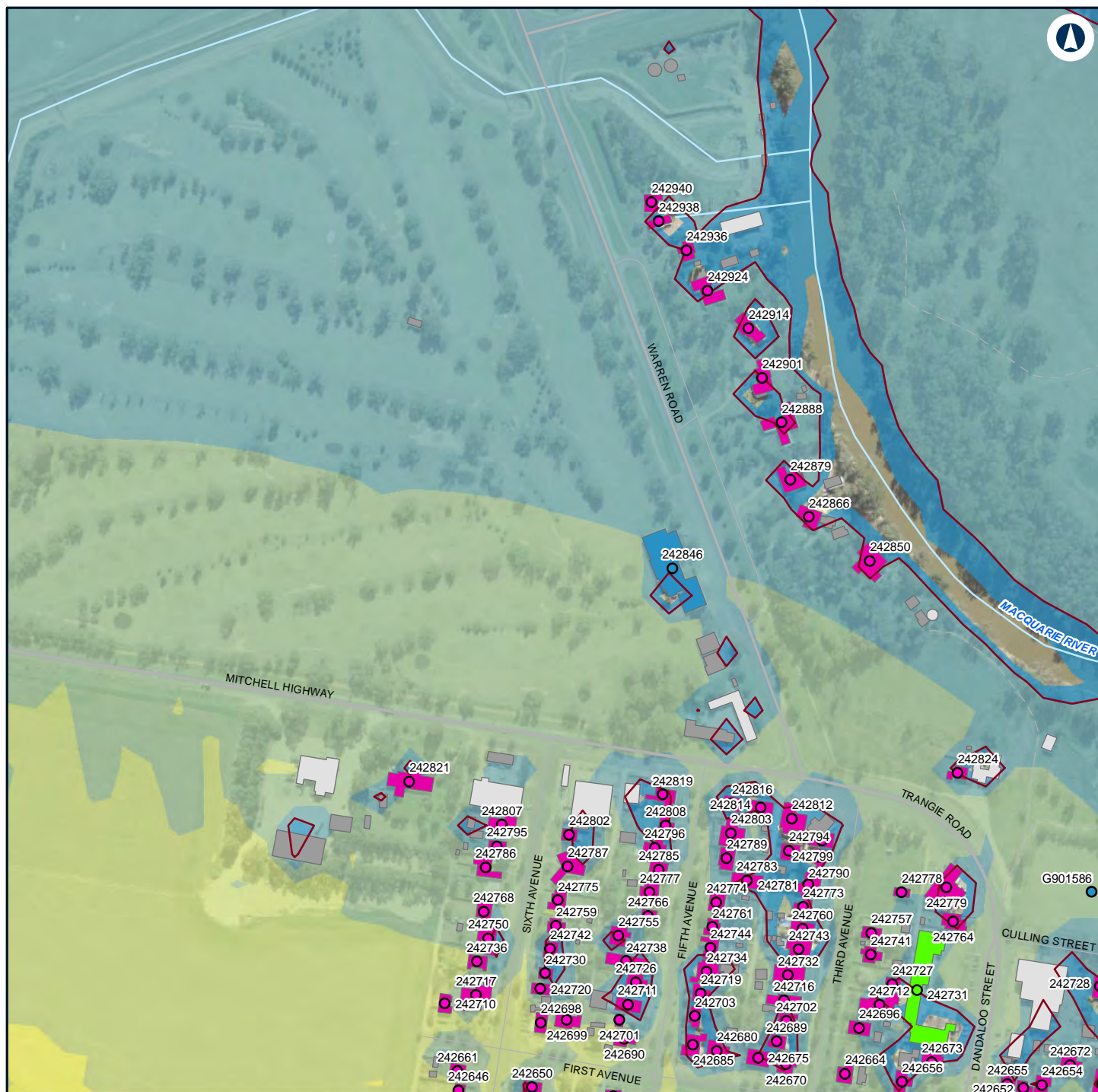
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LEGEND

Structure type

- Active recreation
- Educational
- Residential
- Active recreation
- Commercial/Industrial

■ Educational

■ 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

Appendix G - Page 52 of 304

0 0.1 0.2 Km

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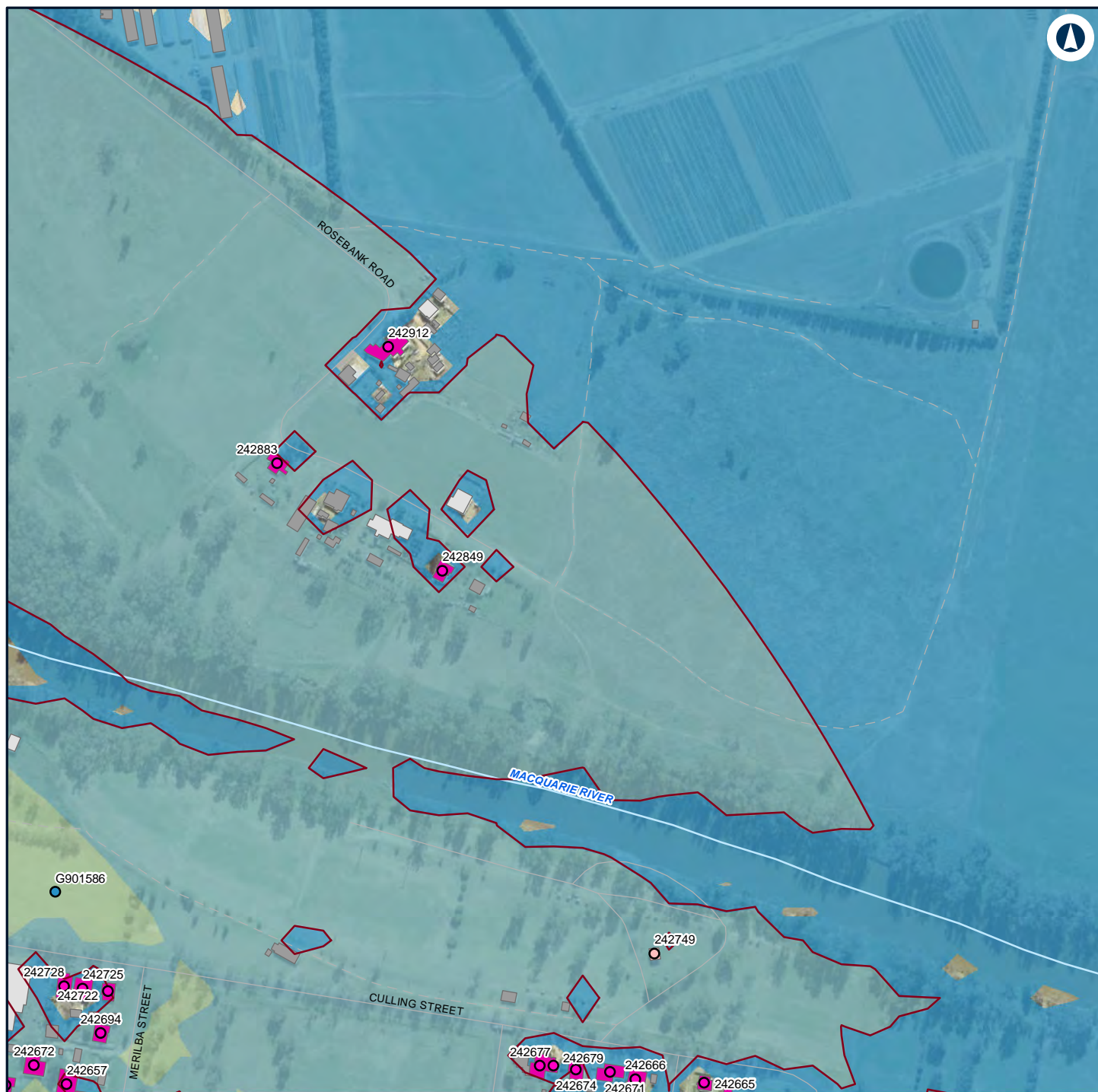
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LEGEND

Structure type

- Active recreation
- Passive recreation
- Residential
- Commercial/Industrial
- Other

Passive recreation

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 53 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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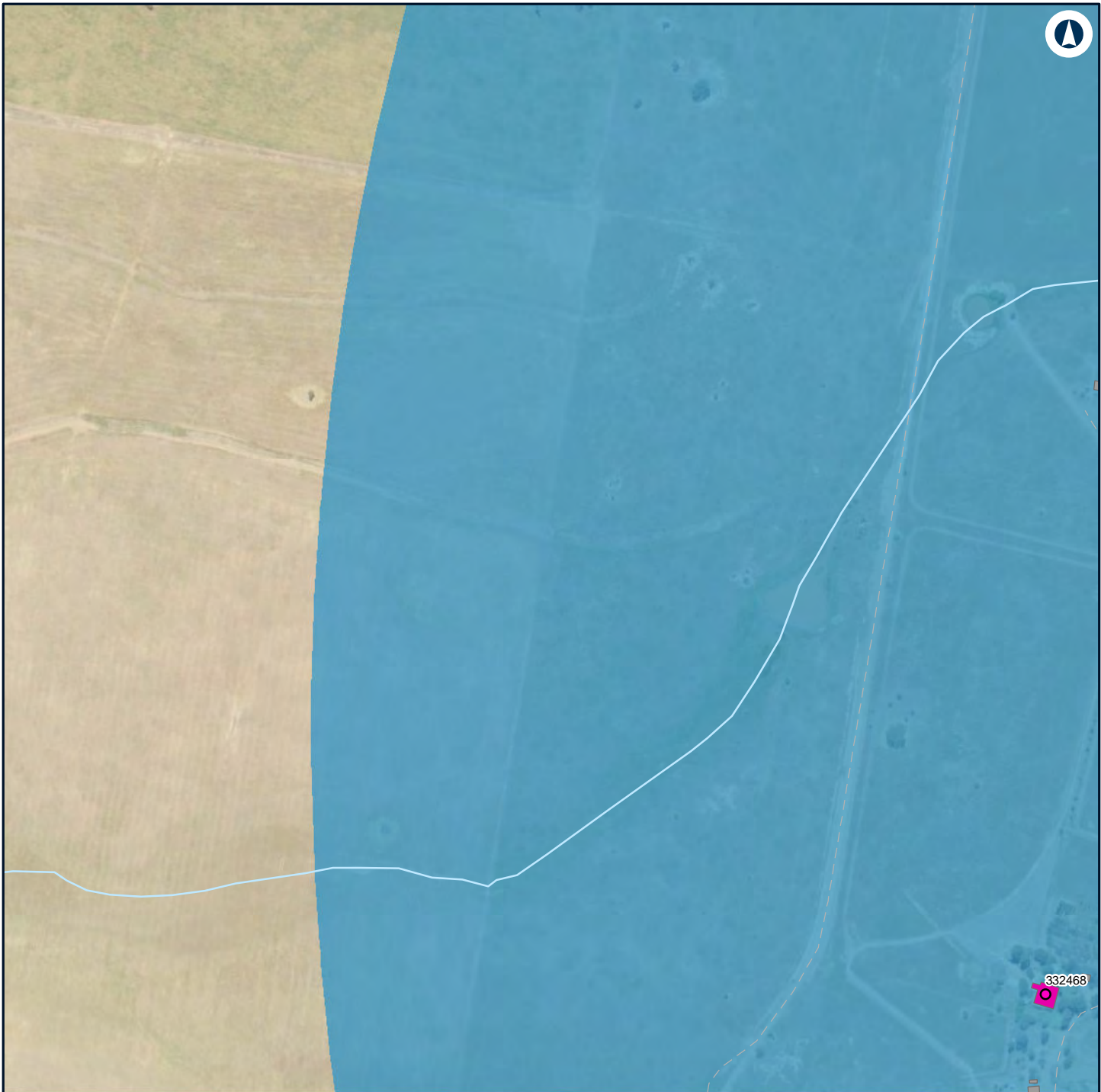
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LEGEND

Structure type

- Residential
- Other
- Residential

**Noise level (dBA L
Aeq 15 minute)**

30 - 35



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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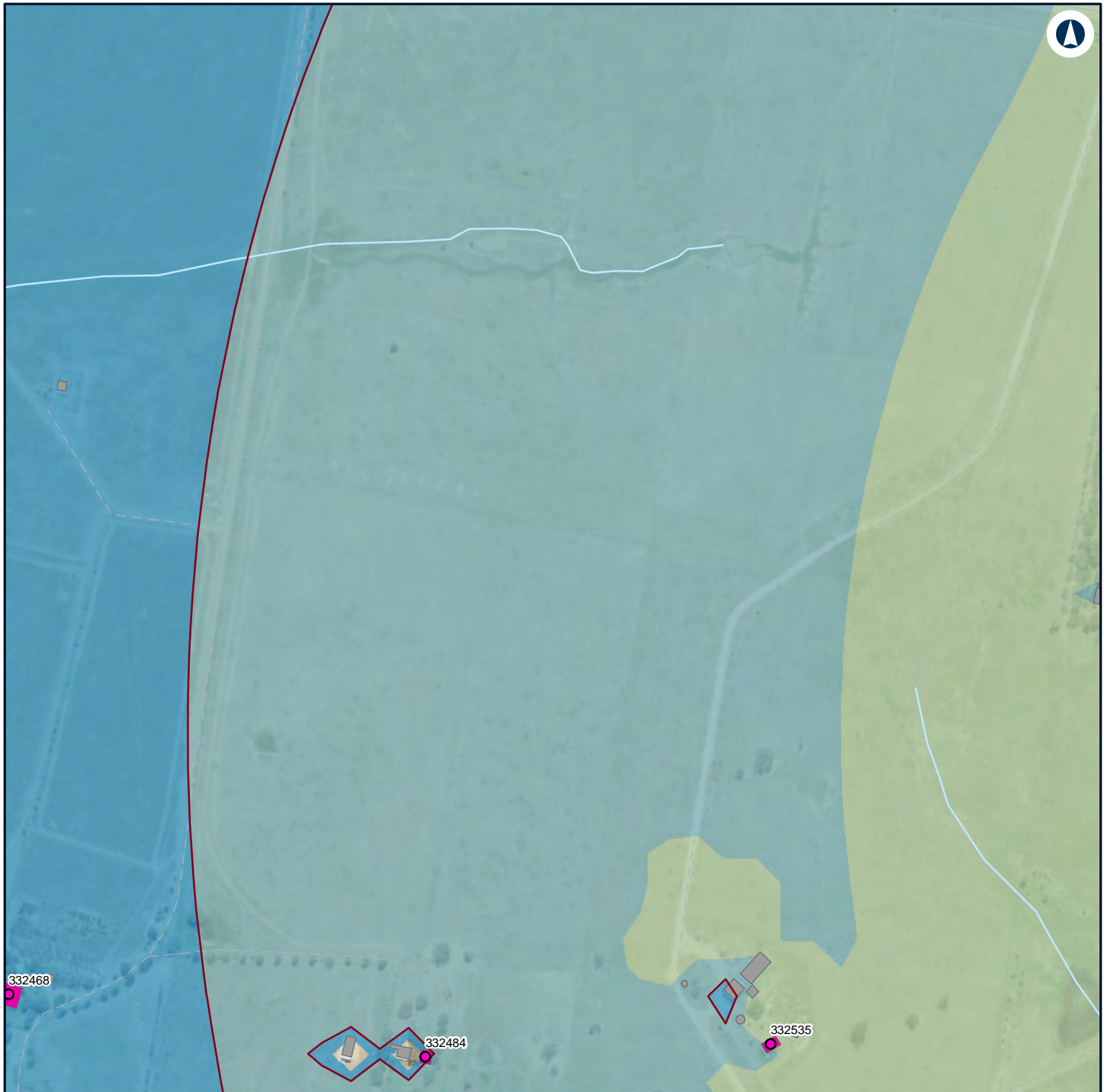
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Date: 16/07/2020 Paper: A4
Author: GHD Scale: 1:5,000
Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

INLAND
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LEGEND

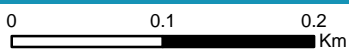
- Structure type**
- Residential 35 - 40
 - Residential 40 - 45
 - Other
 - Residential
- Noise level (dBA L Aeq 15 minute)**
- 30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 55 of 304



Coordinate System: GDA 1994 MGA Zone 55

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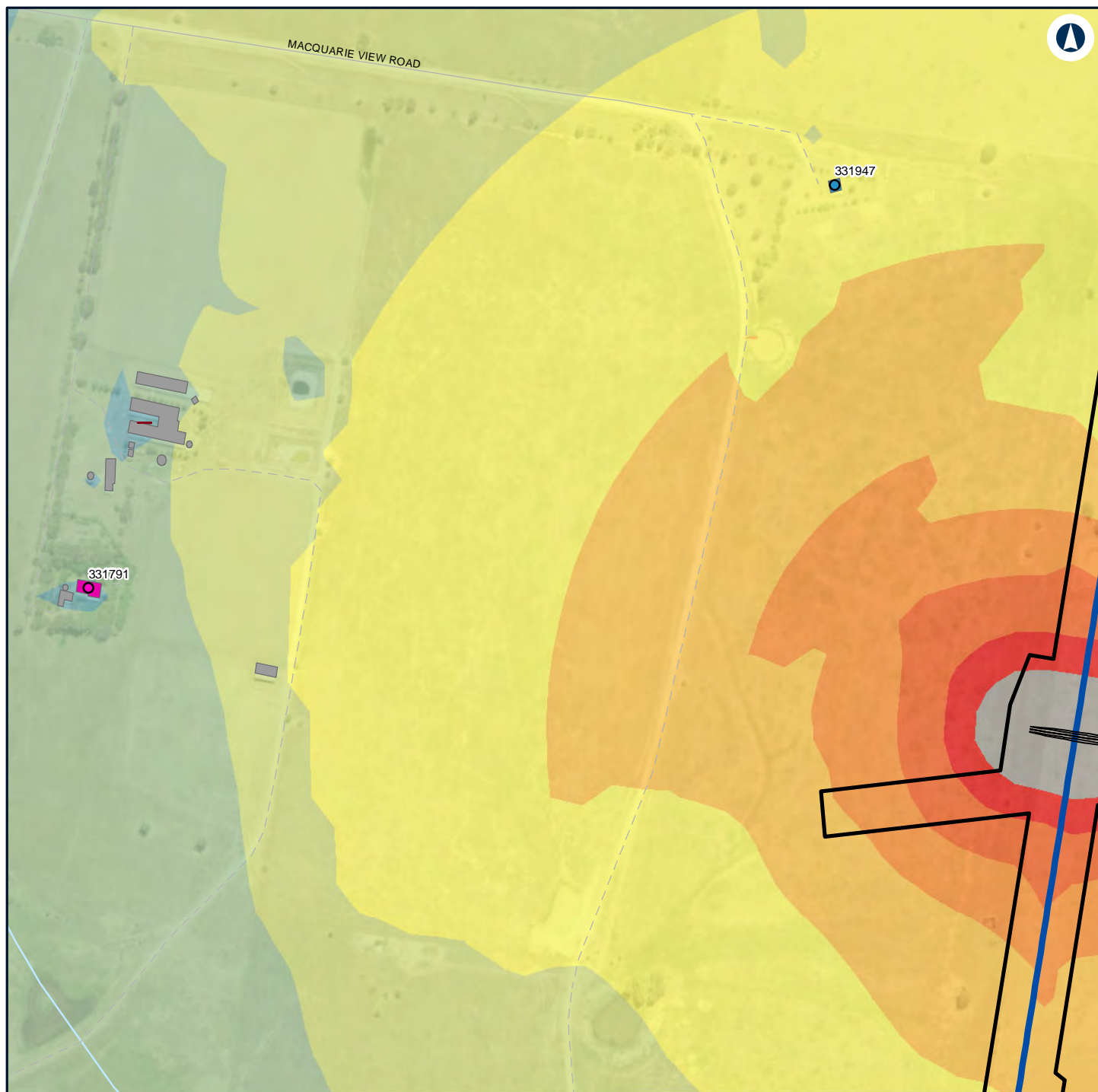
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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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 Aeq 15 minute)	60 - 65
Active recreation	35 - 40	65 - 70
Residential	40 - 45	70 - 75
		> 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 56 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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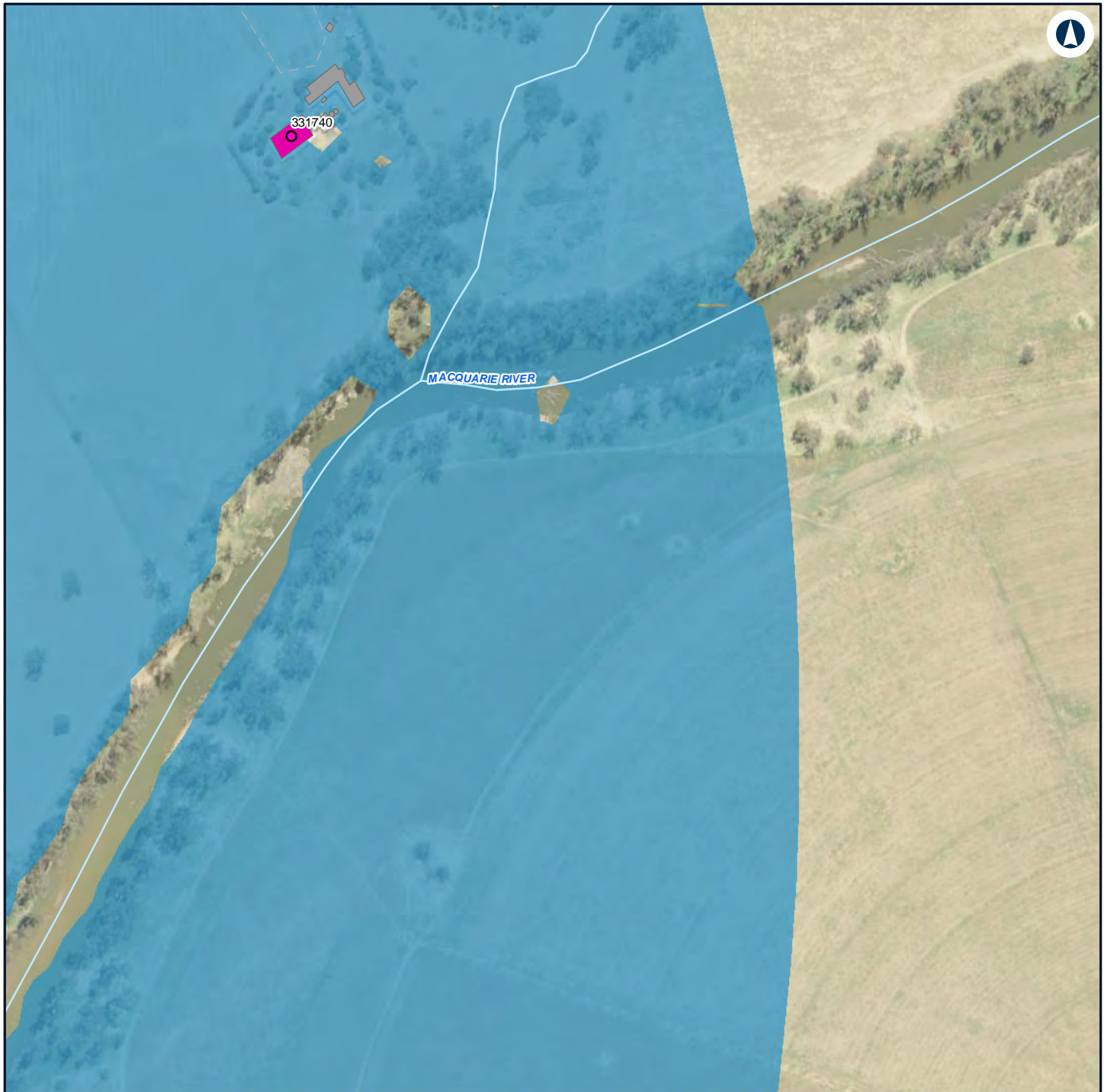
Author: GHD

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



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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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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

Appendix G - Page 59 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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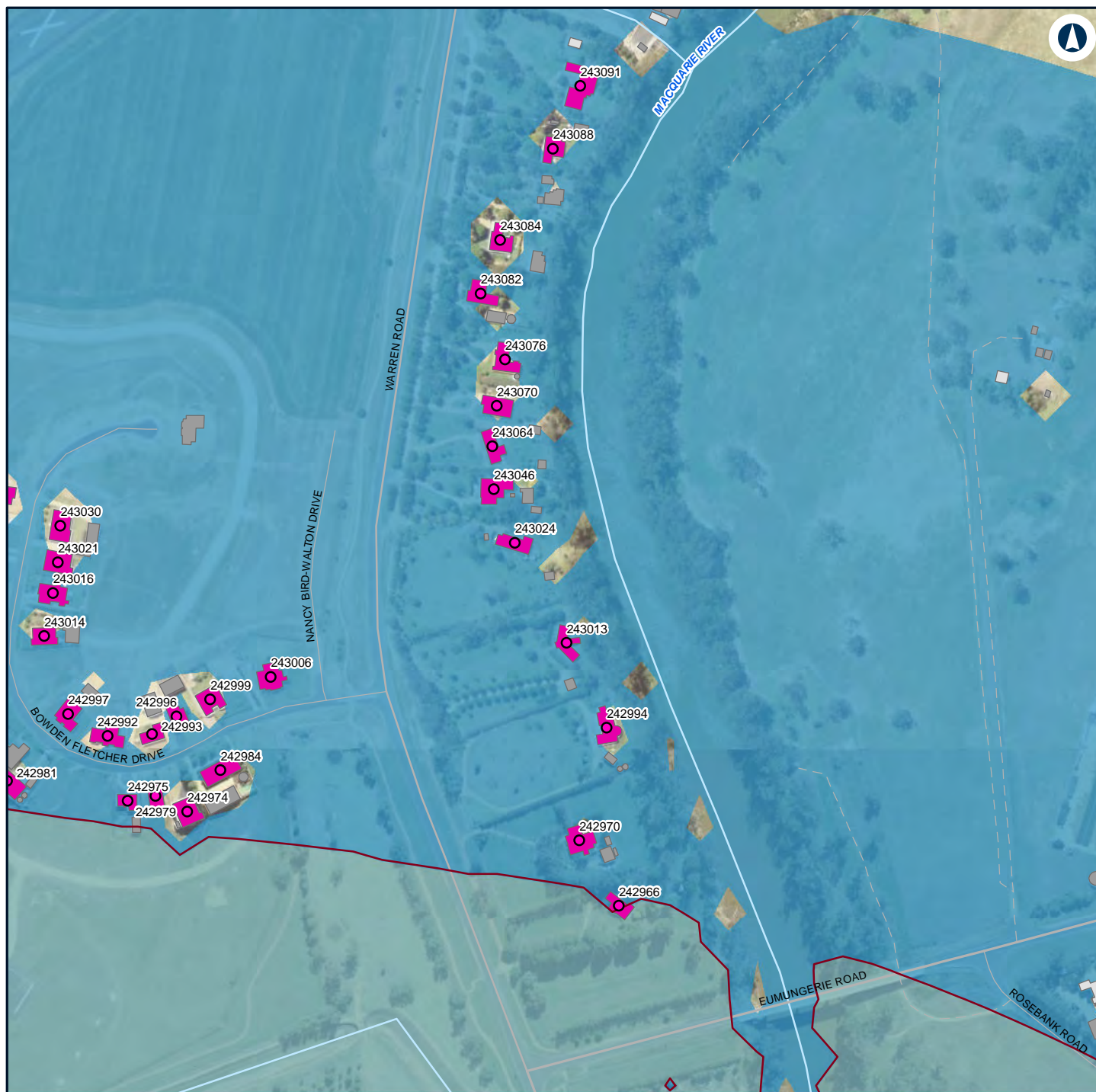
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LEGEND

Structure type

- Residential
- Commercial/Industrial
- Other
- Residential

Noise level (dBA L

Aeq 15 minute)

- 30 - 35
- 35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2
Km

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LEGEND

Structure type

- Residential
- Commercial/Industrial
- 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 61 of 304

0 0.1 0.2
Km

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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

Appendix G - Page 62 of 304

0 0.1 0.2
 Km

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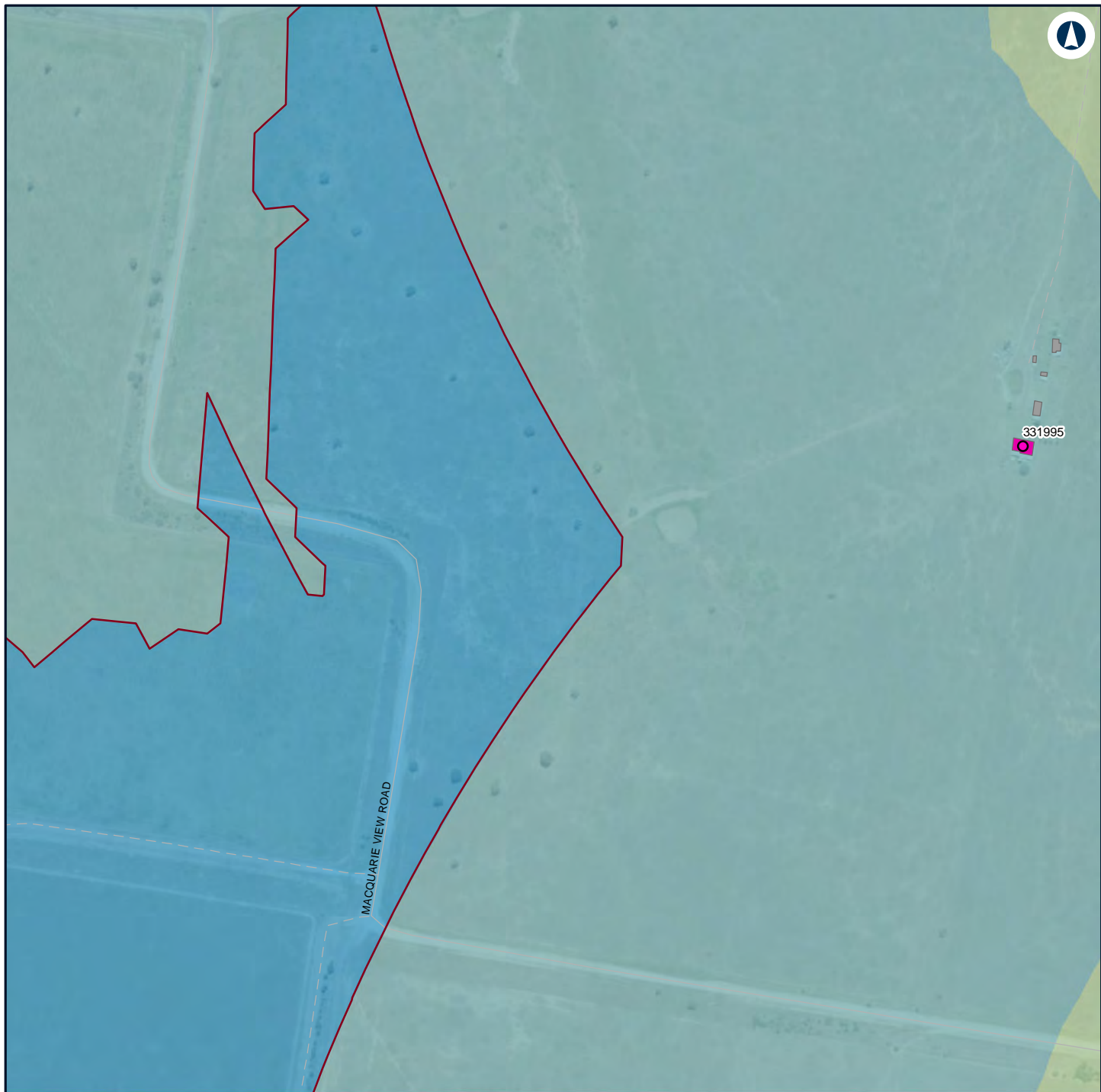
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

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

Appendix G - Page 63 of 304



Coordinate System: GDA 1994 MGA Zone 55

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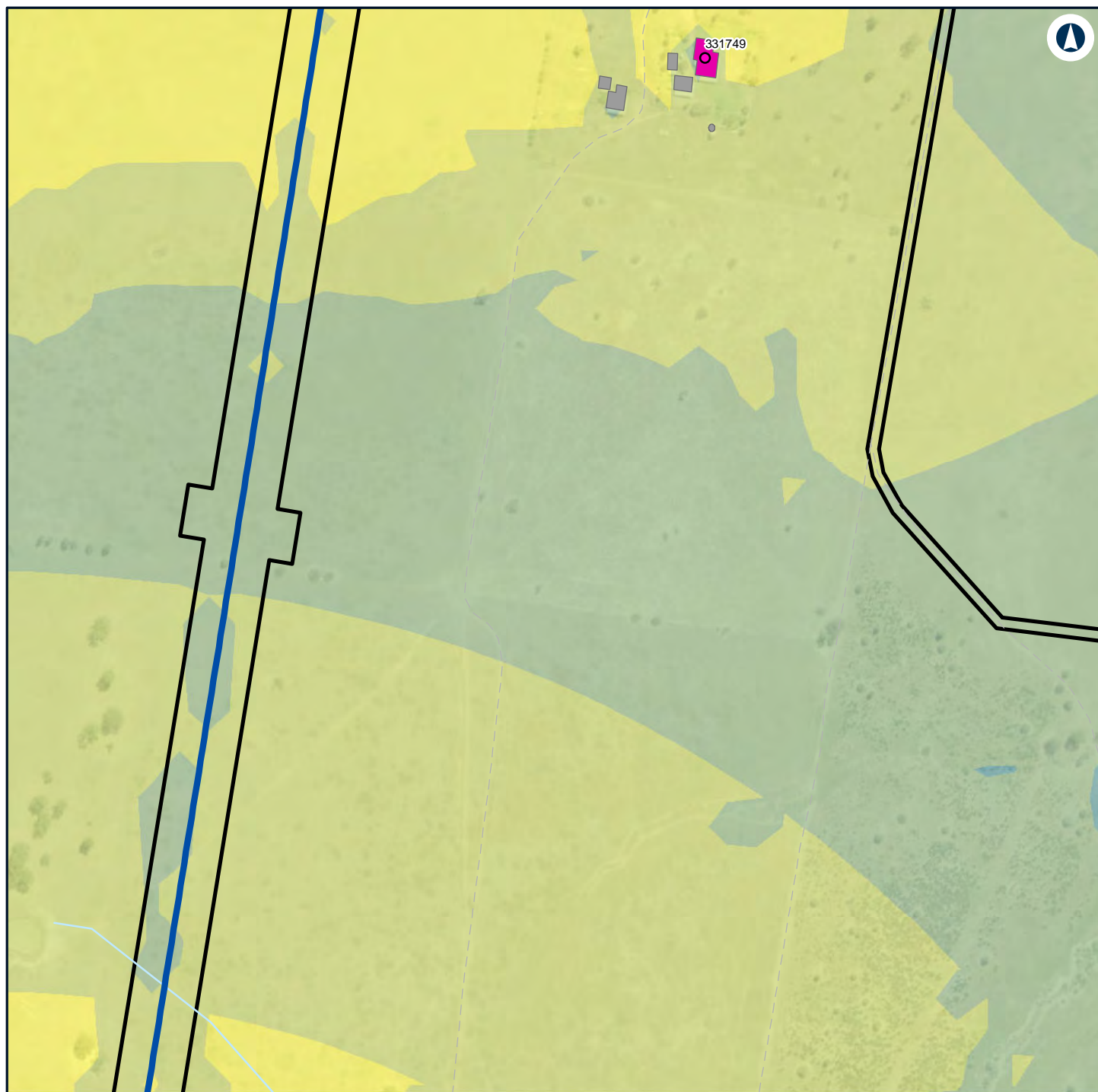
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

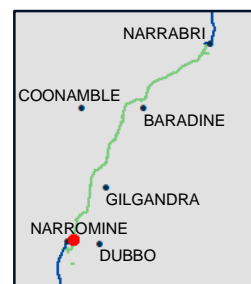
Aeq 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 64 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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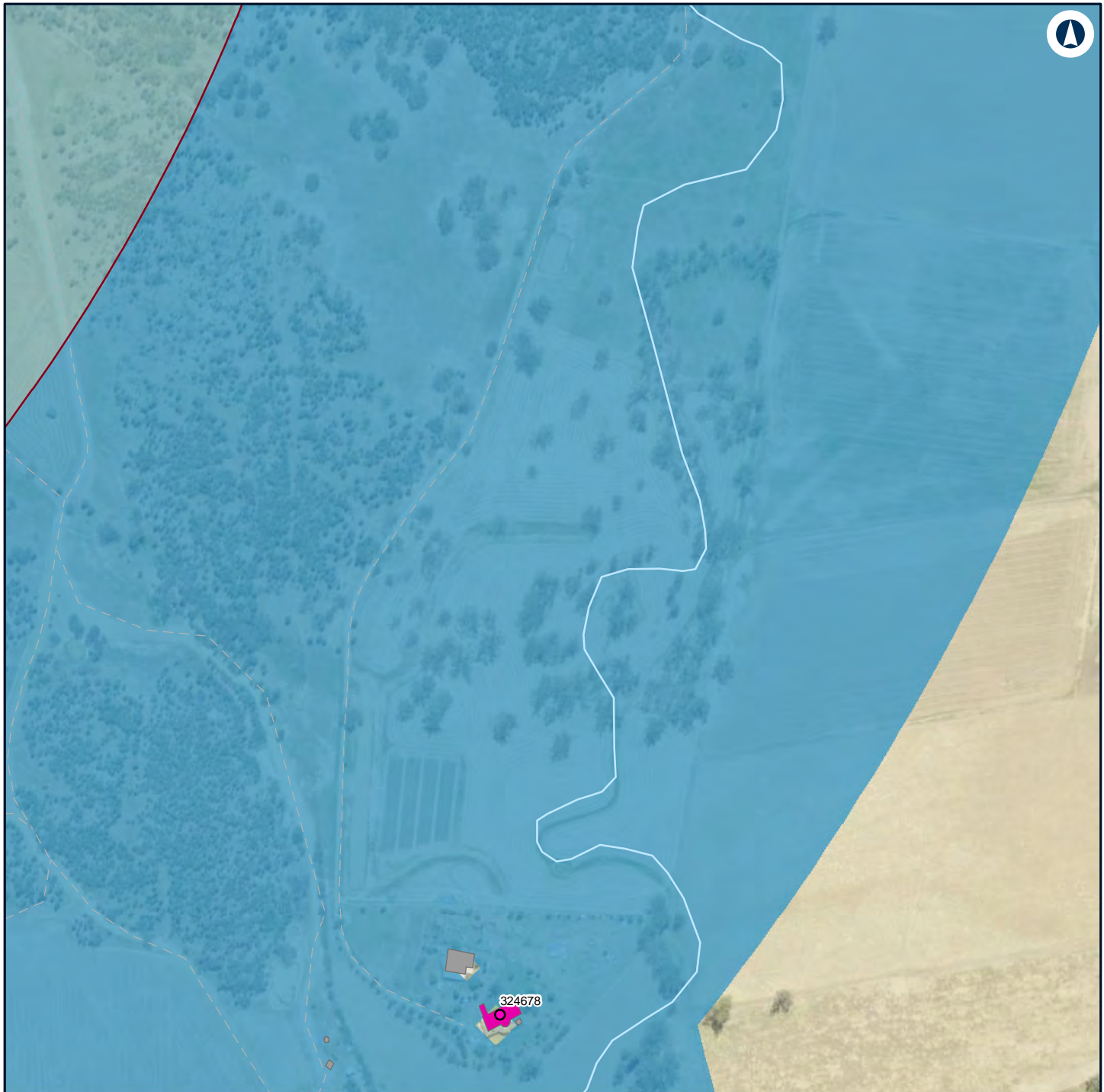
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LEGEND

- Structure type**
- 35 - 40
 - 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 65 of 304

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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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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0 0.1 0.2
Km

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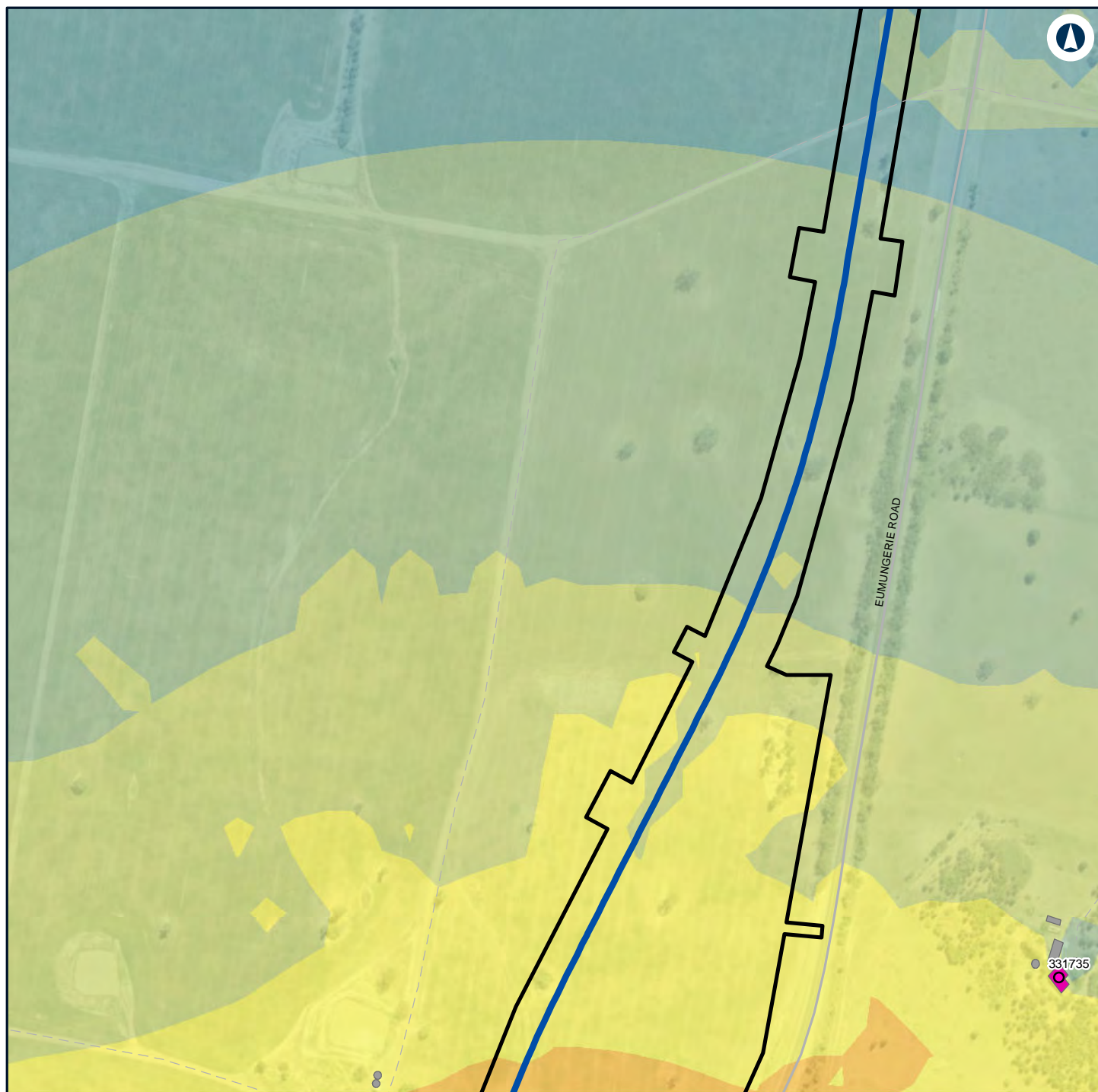
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LEGEND

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

Appendix G - Page 68 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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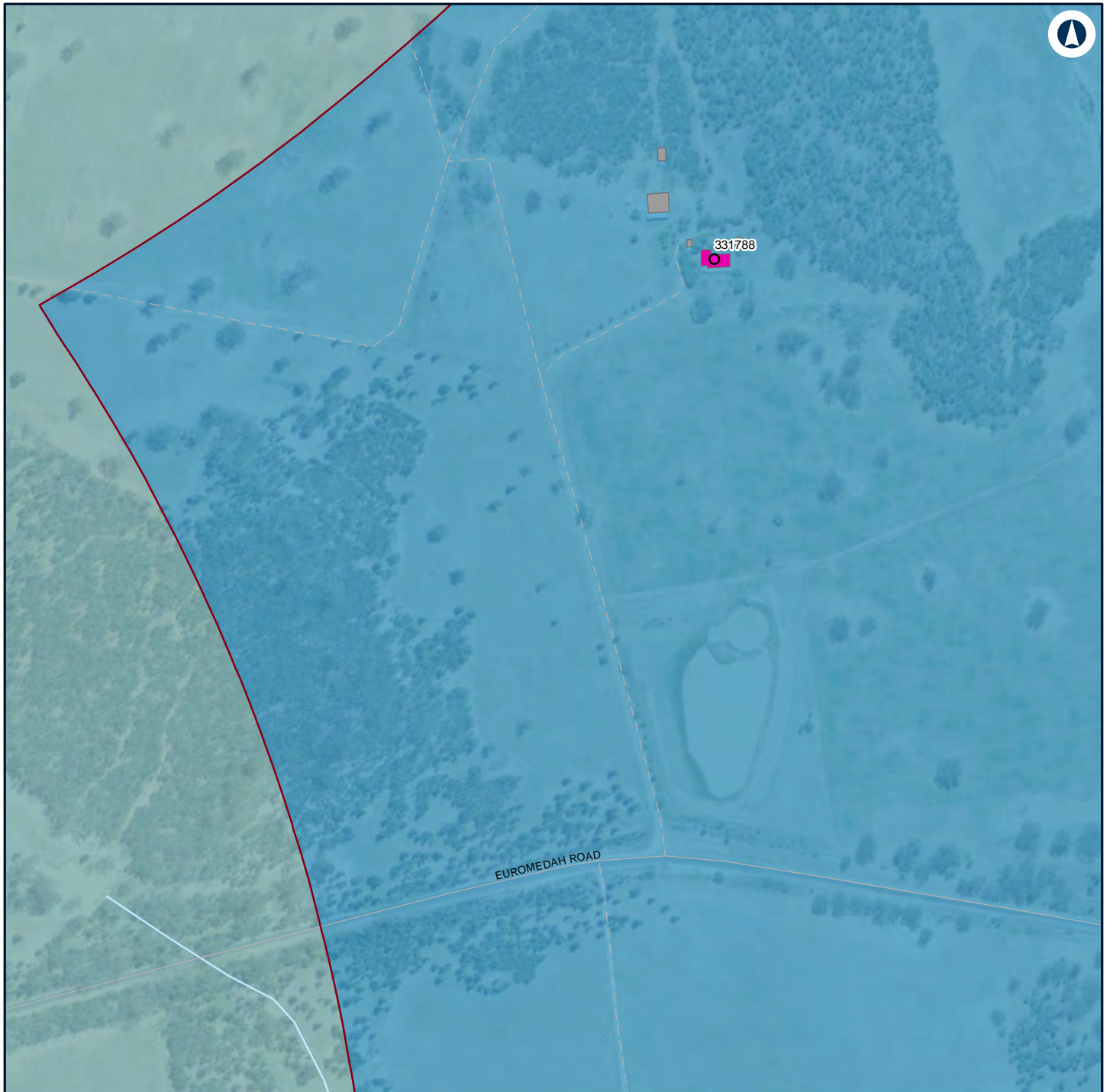
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LEGEND

Structure type 35 - 40

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 69 of 304

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 70 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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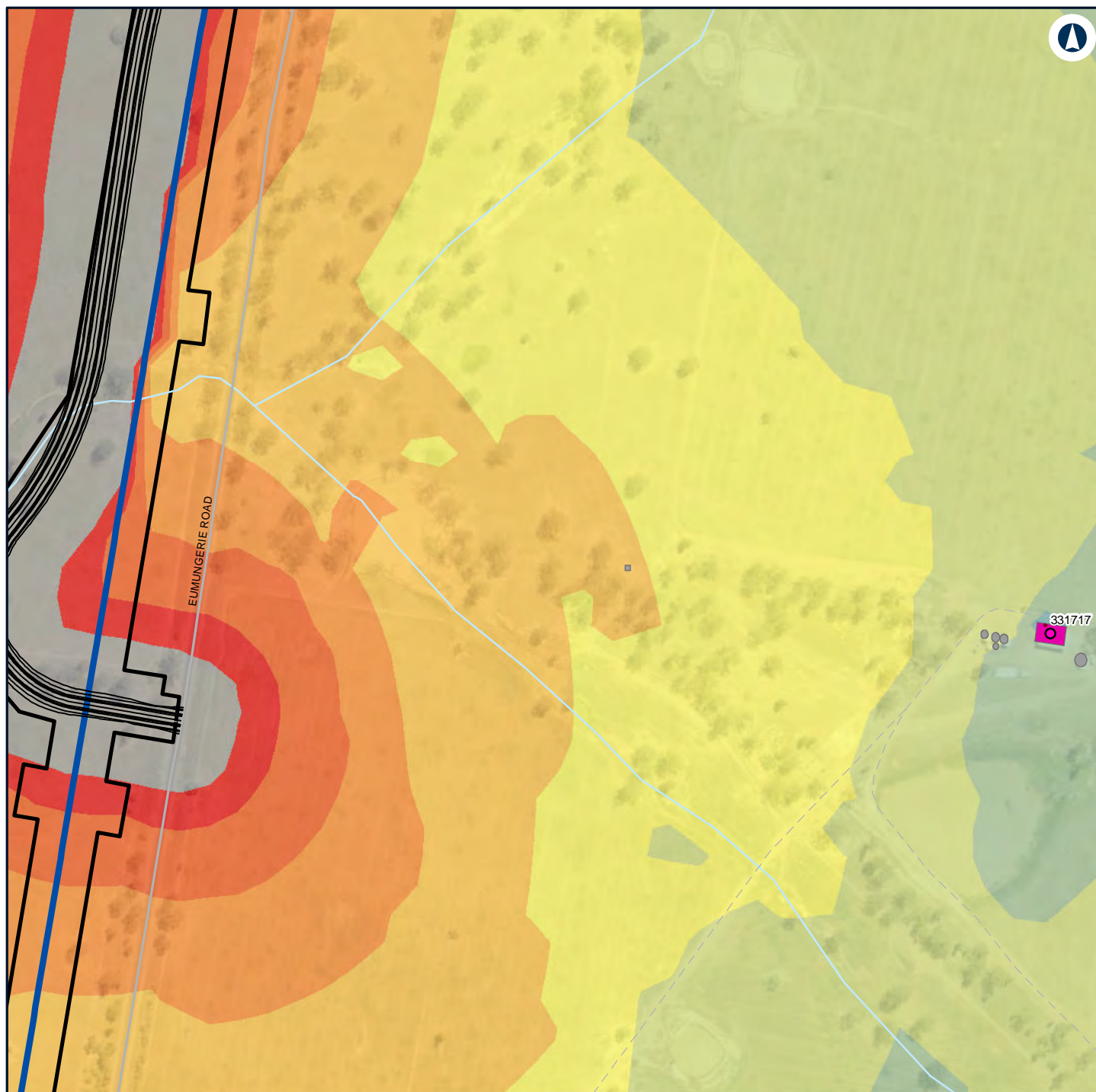
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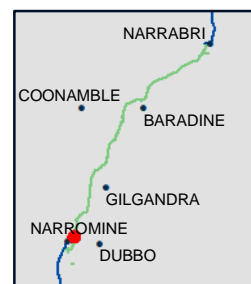
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 71 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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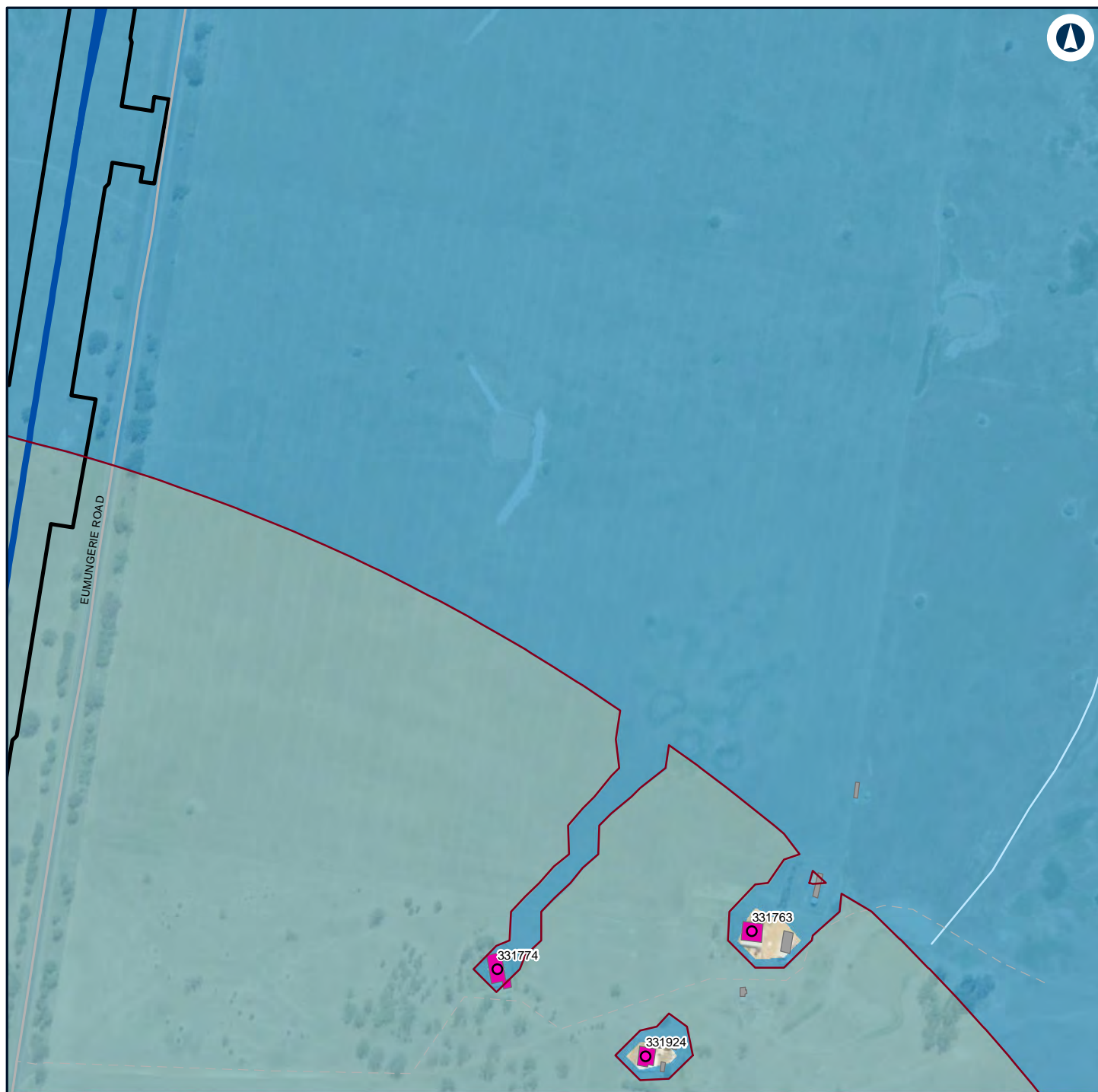
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

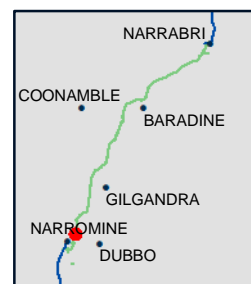
Residential

Noise level (dBA L)

Aeq 15 minute)

30 - 35

35 - 40



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 72 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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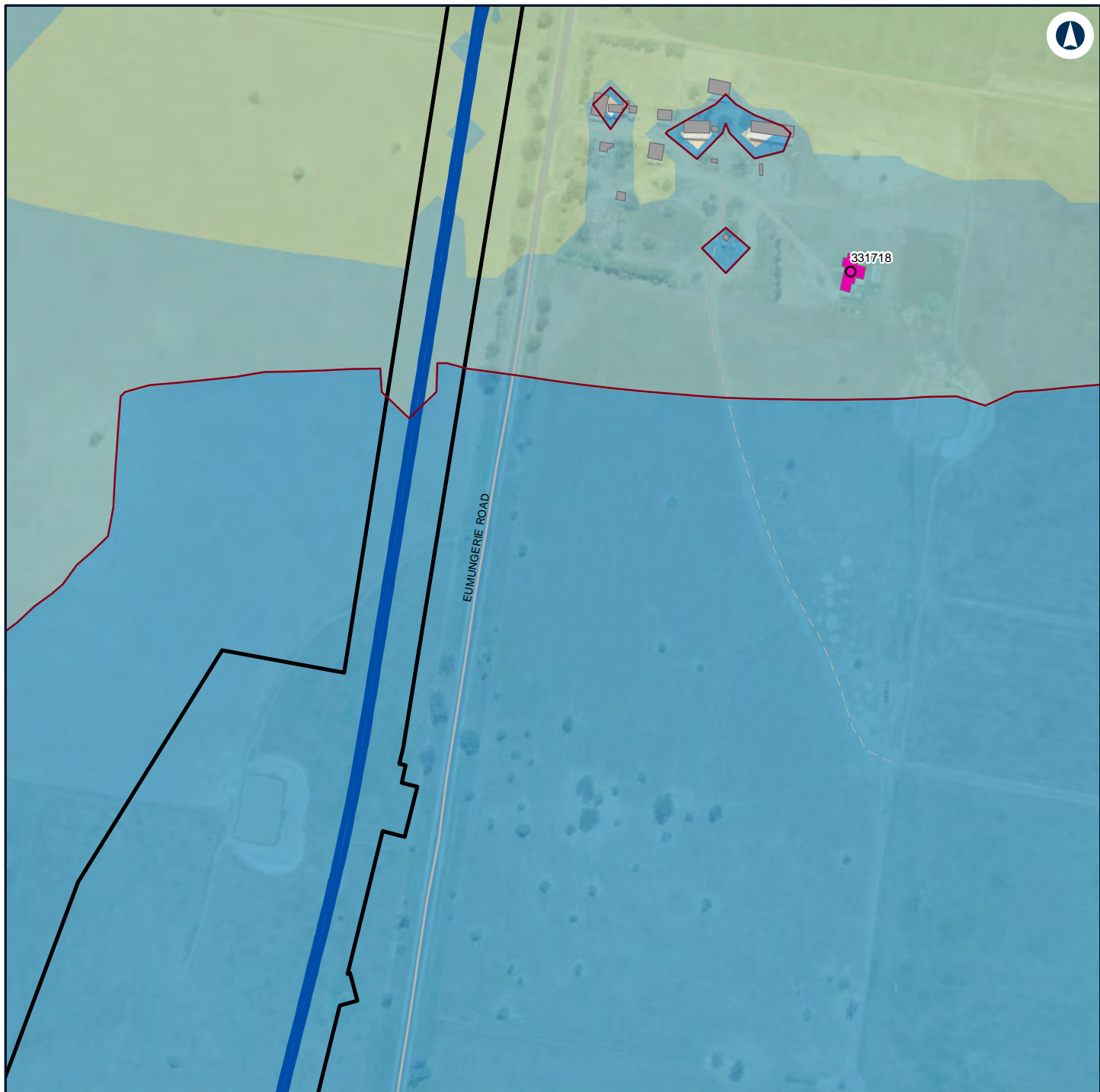
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

30 - 35

35 - 40

40 - 45



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 73 of 304

0 0.1 0.2 Km

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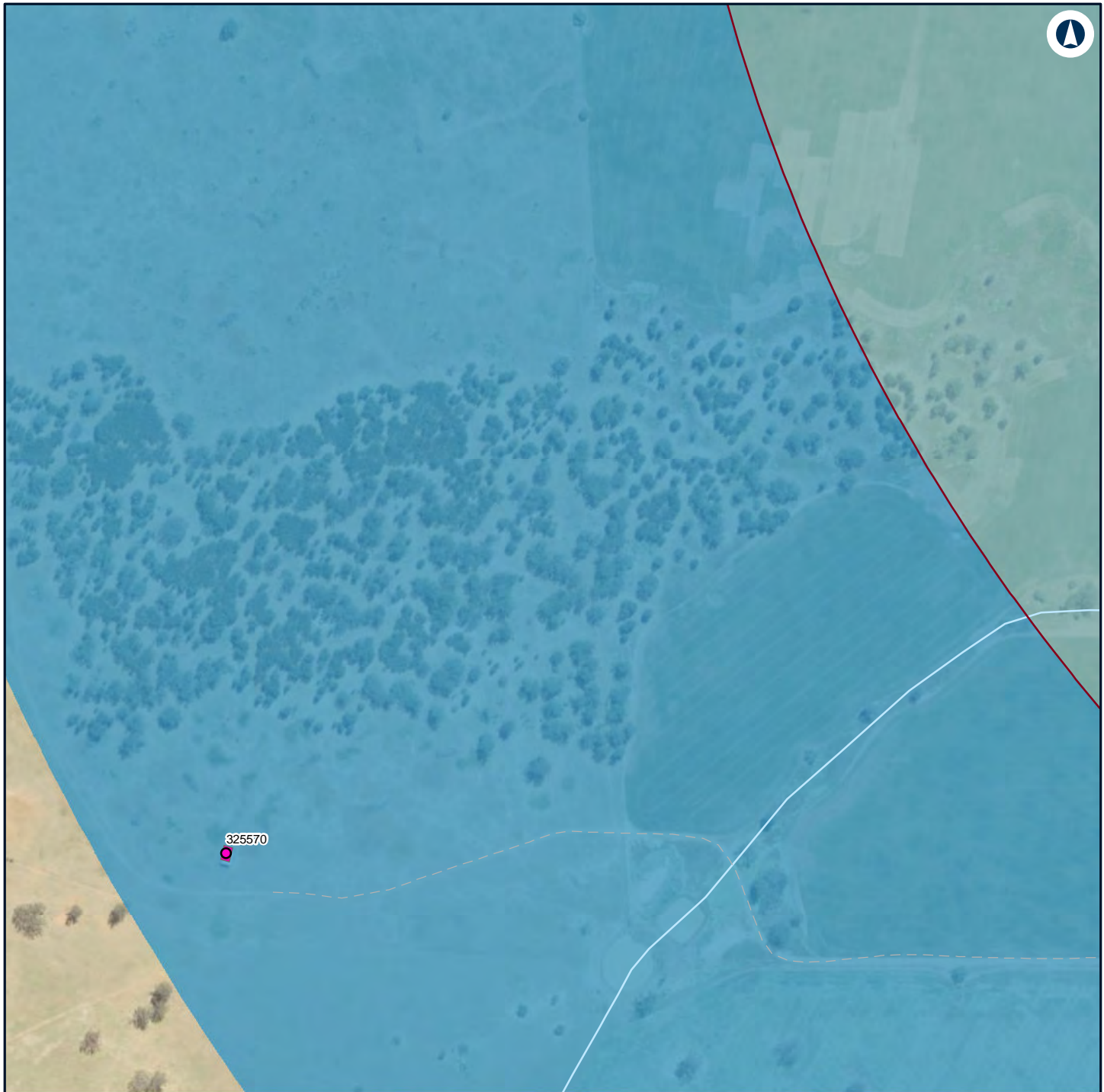
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LEGEND

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

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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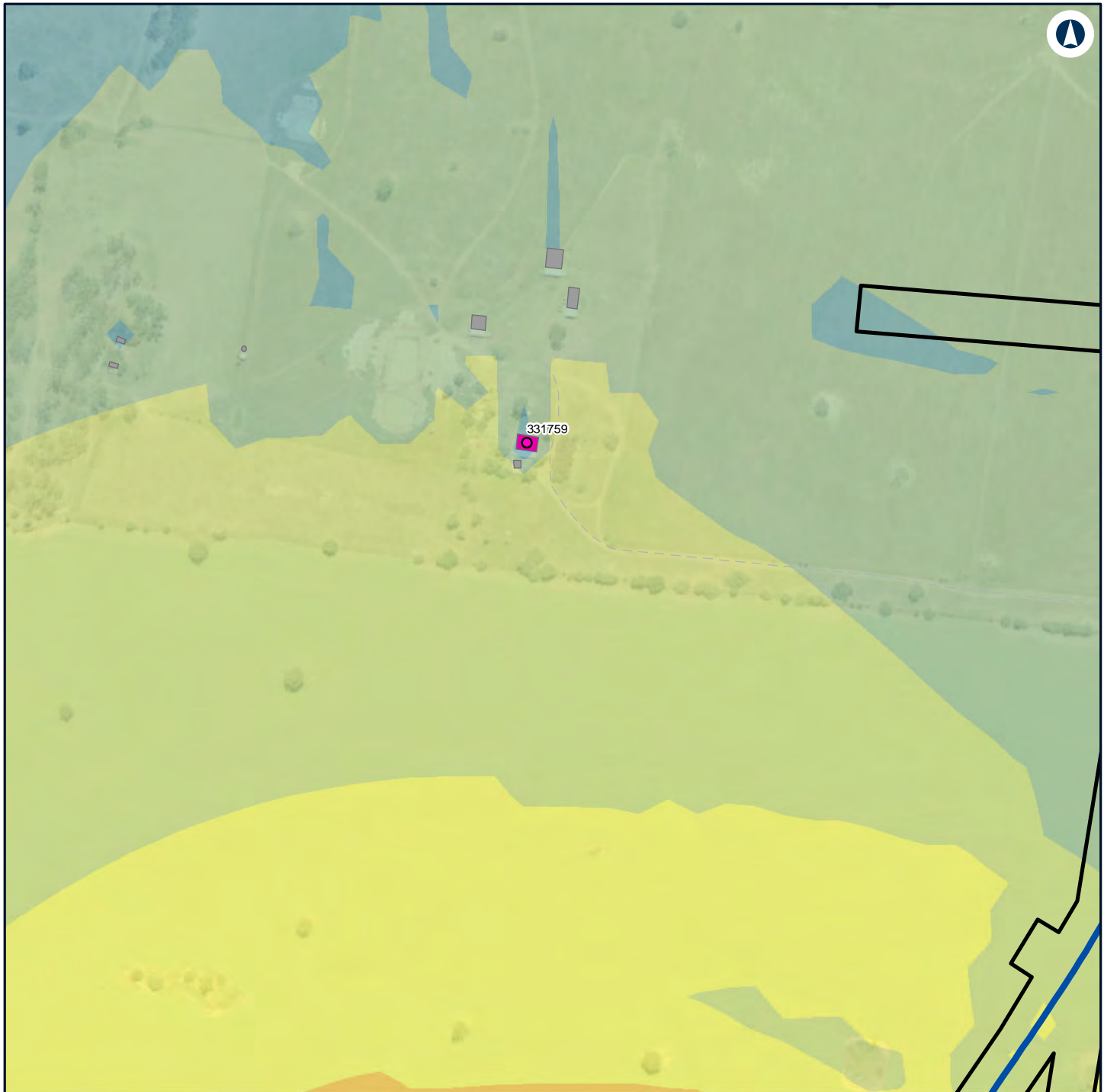
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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L)

Aeq 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 76 of 304

0 0.1 0.2 Km

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

INLAND RAIL **ARTC**

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LEGEND

Alignment

Construction footprint

Structure type

Residential

Other

Residential

Noise level (dBA L

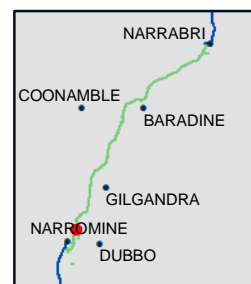
Aeq 15 minute)

35 - 40

40 - 45

45 - 50

50 - 55



NARRAMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 77 of 304

0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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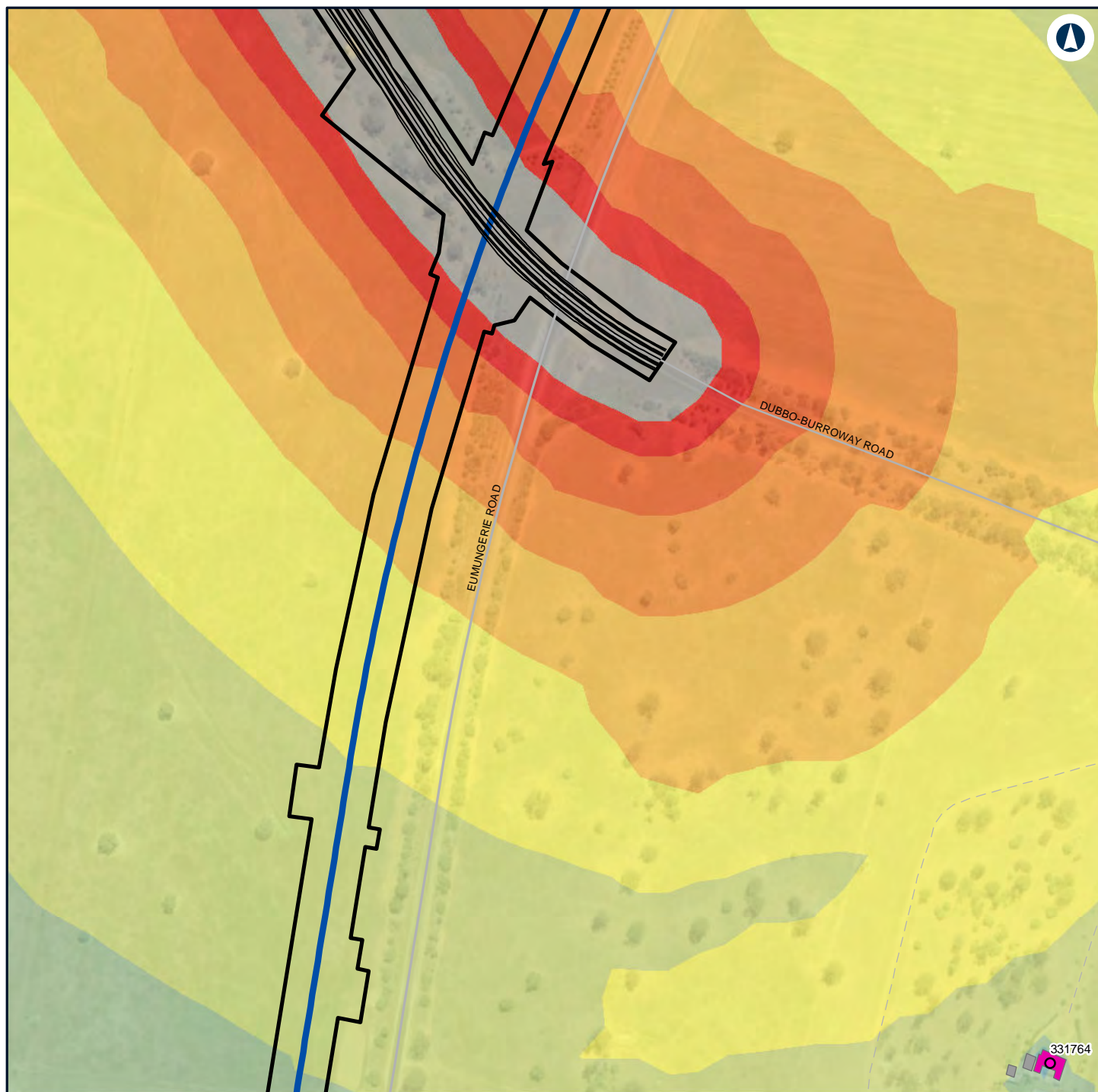
Author: GHD

Scale: 1:5,000

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

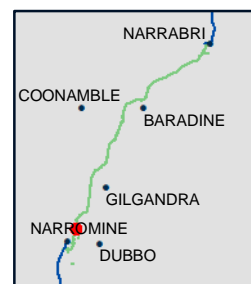
INLAND RAIL **ARTC**

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 78 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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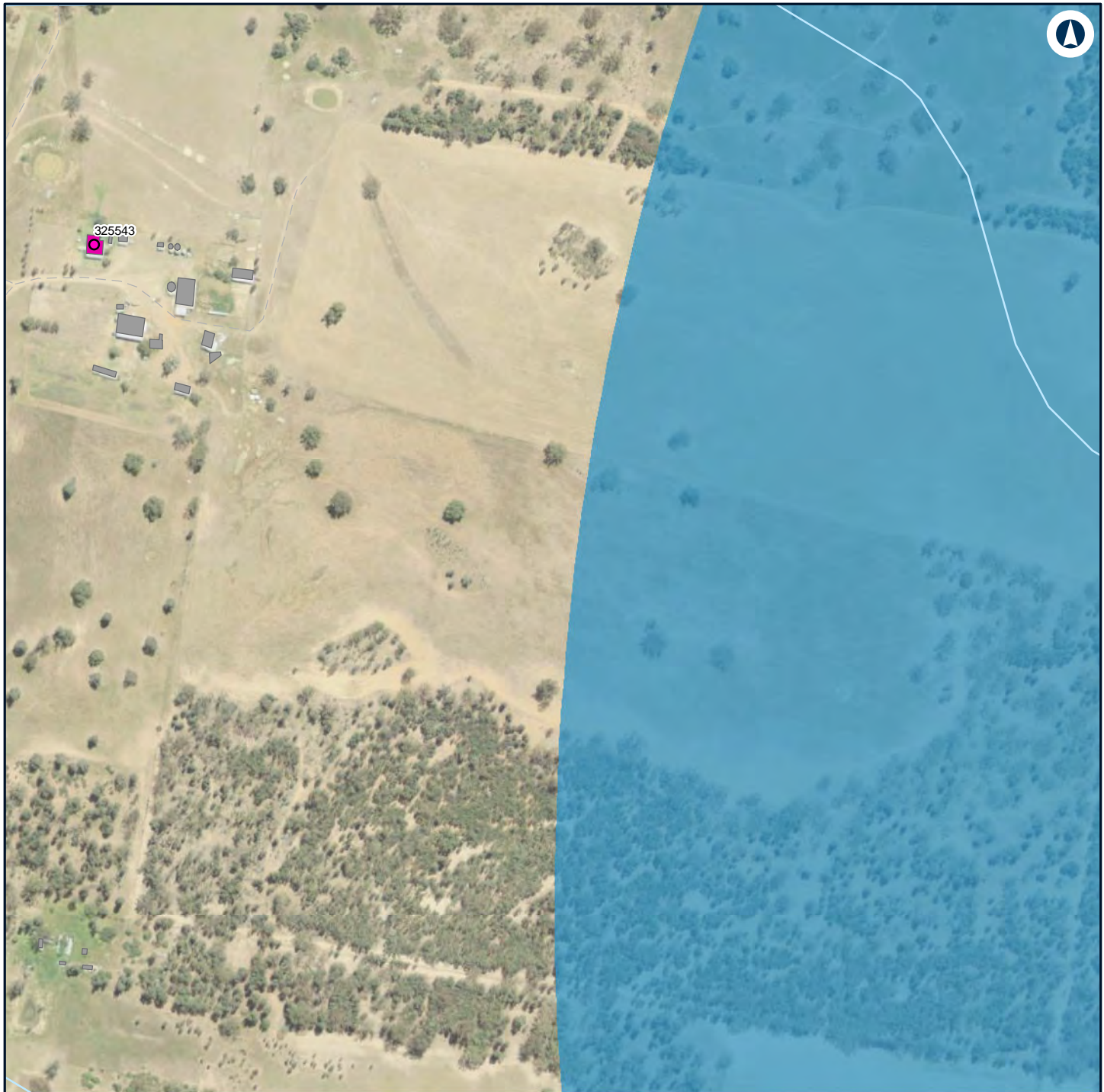
Author: GHD

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

Appendix G - Page 79 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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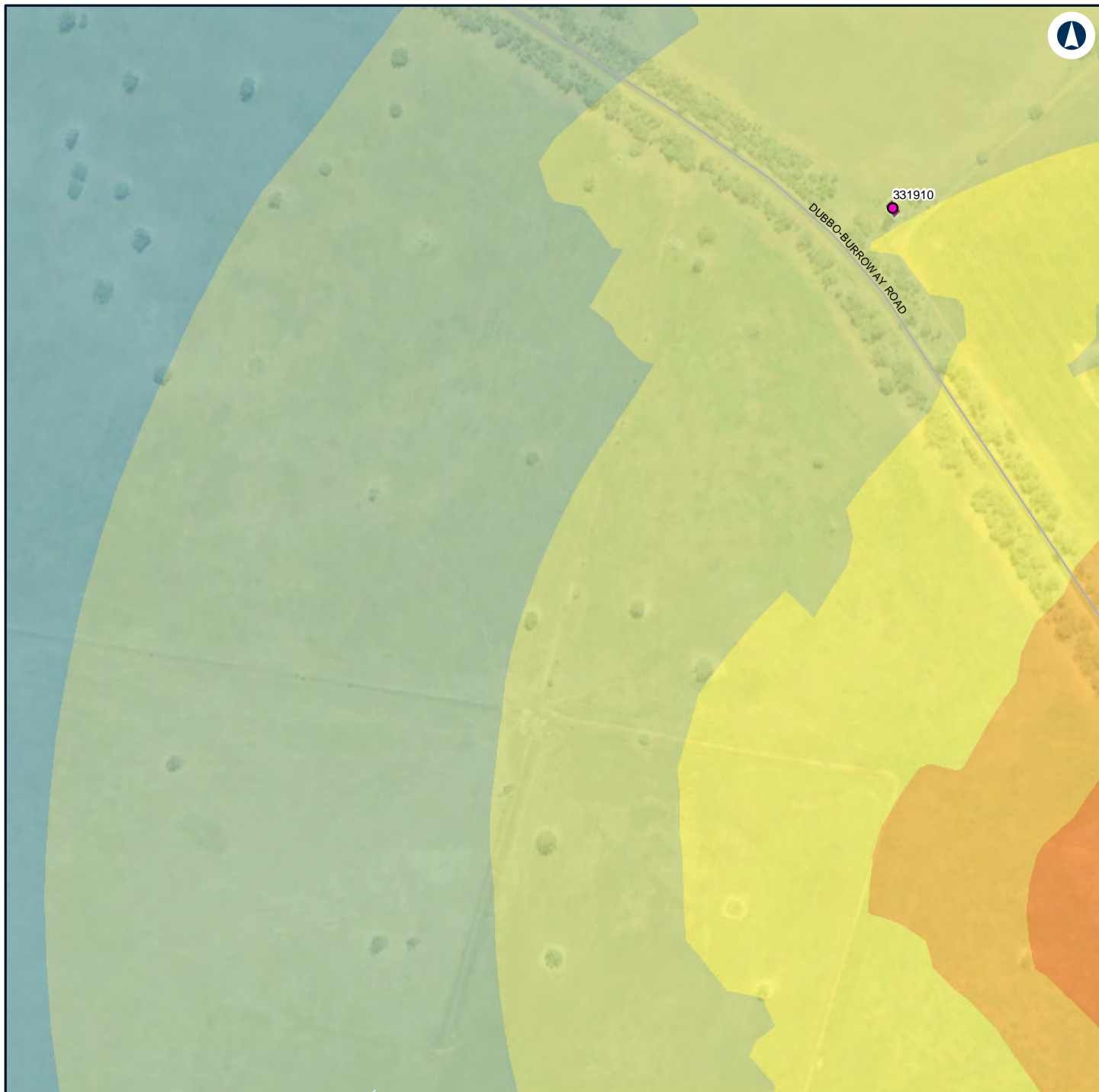
Author: GHD

Scale: 1:5,000

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

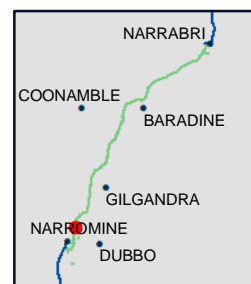
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LEGEND

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



NARRABINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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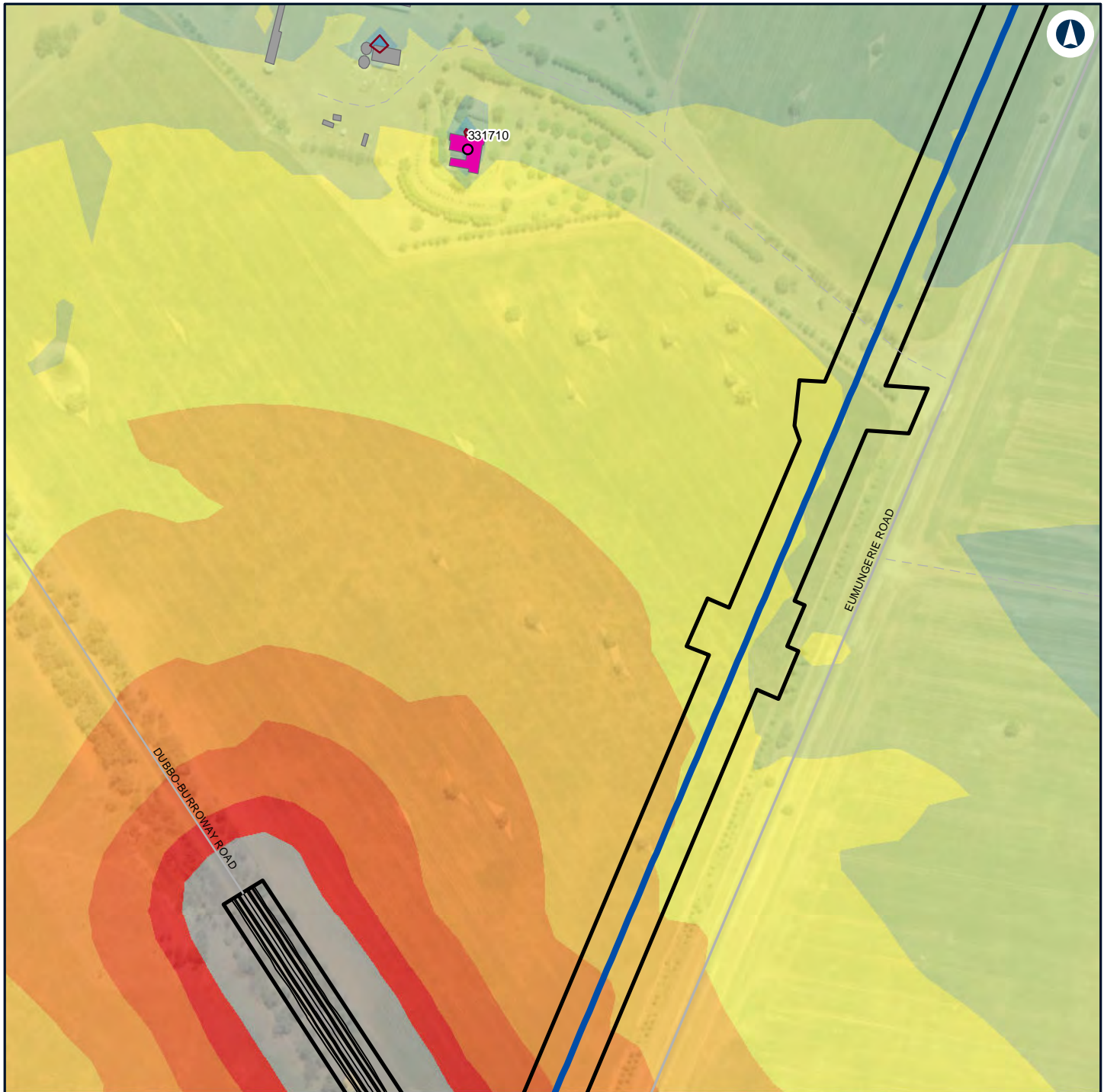
Author: GHD

Scale: 1:5,000

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

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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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



NARRABINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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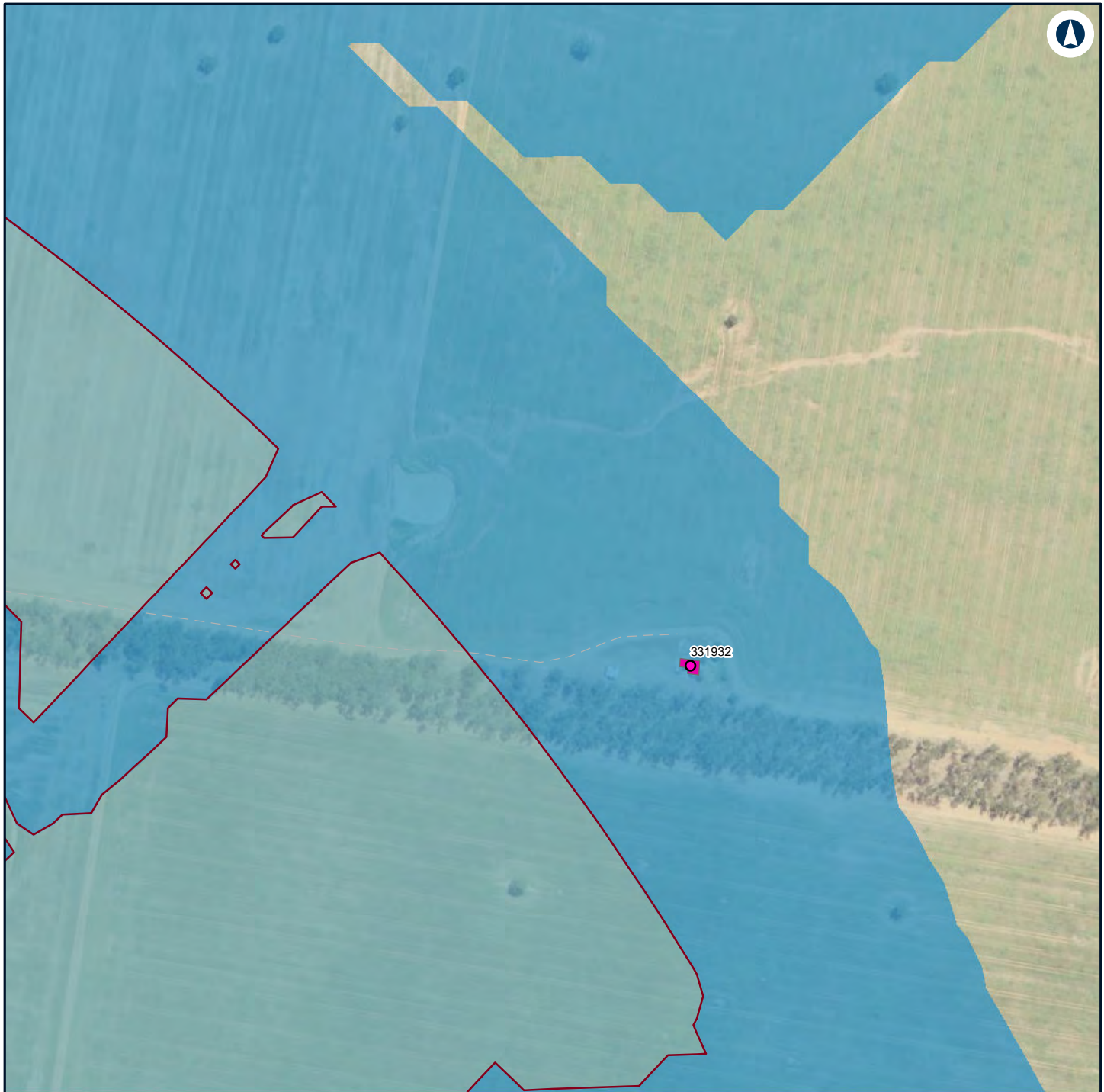
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type

- Residential
- 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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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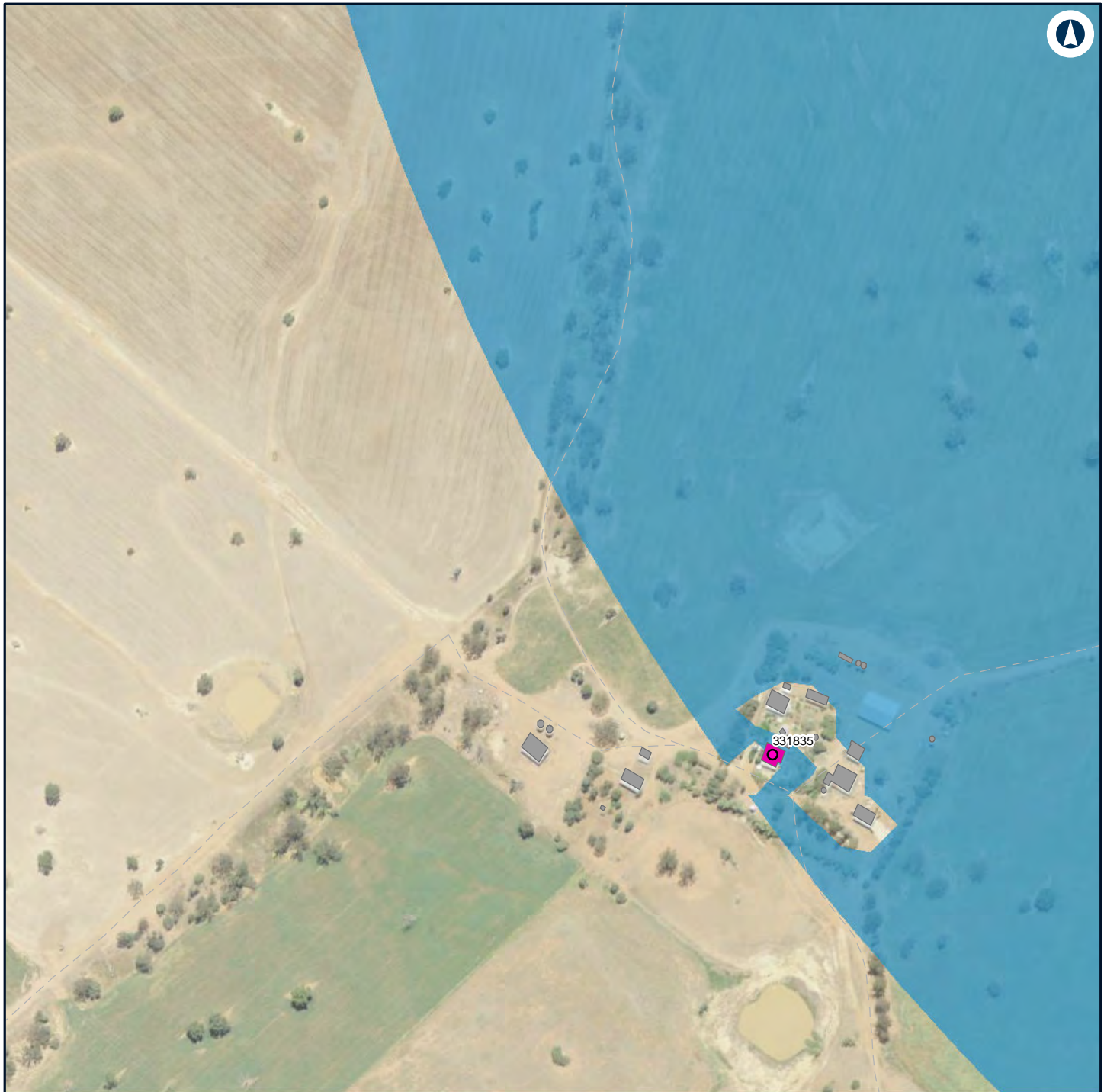
Author: GHD

Scale: 1:5,000

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

INLAND RAIL **ARTC**

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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 84 of 304

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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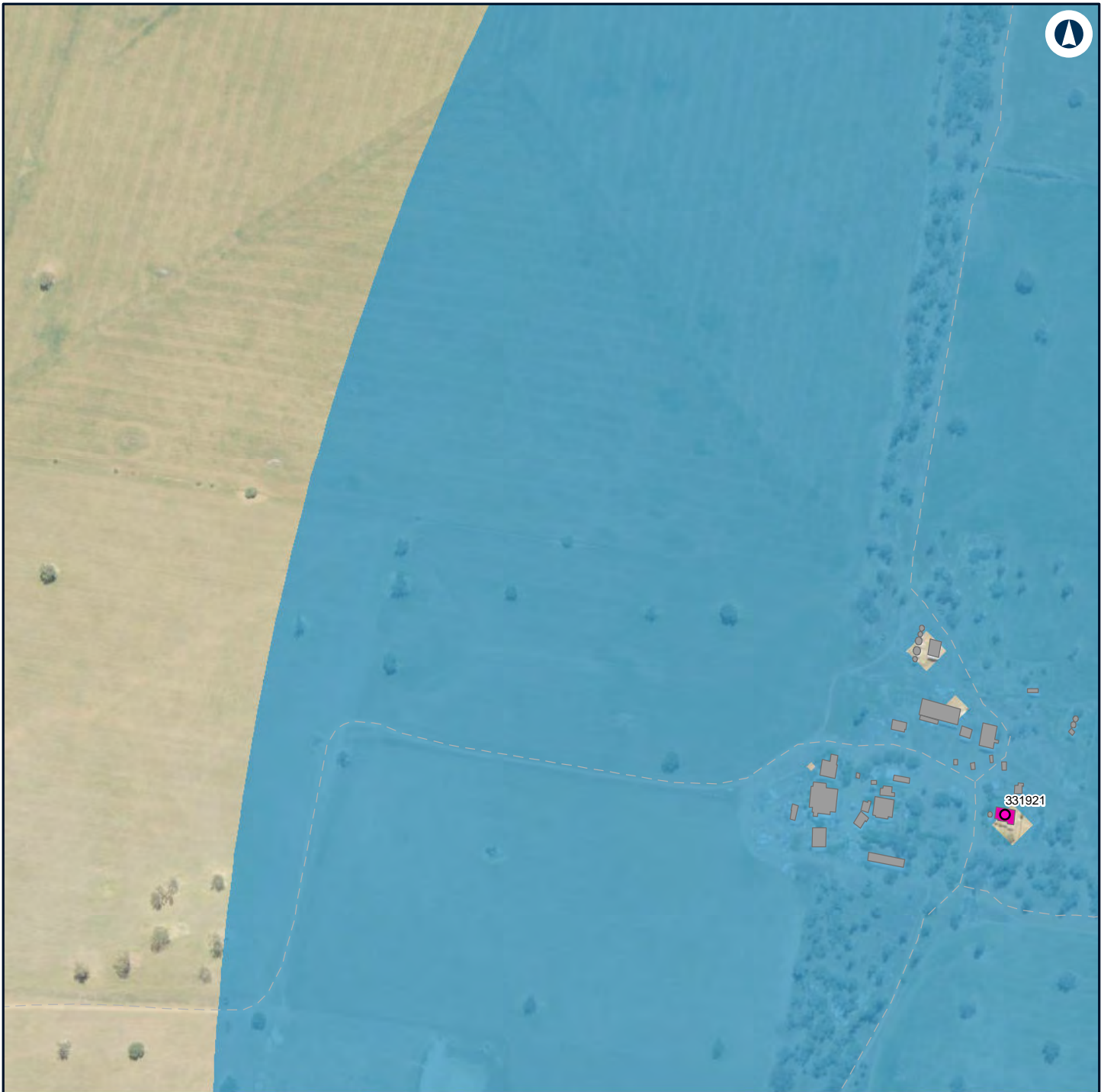
Author: GHD

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



0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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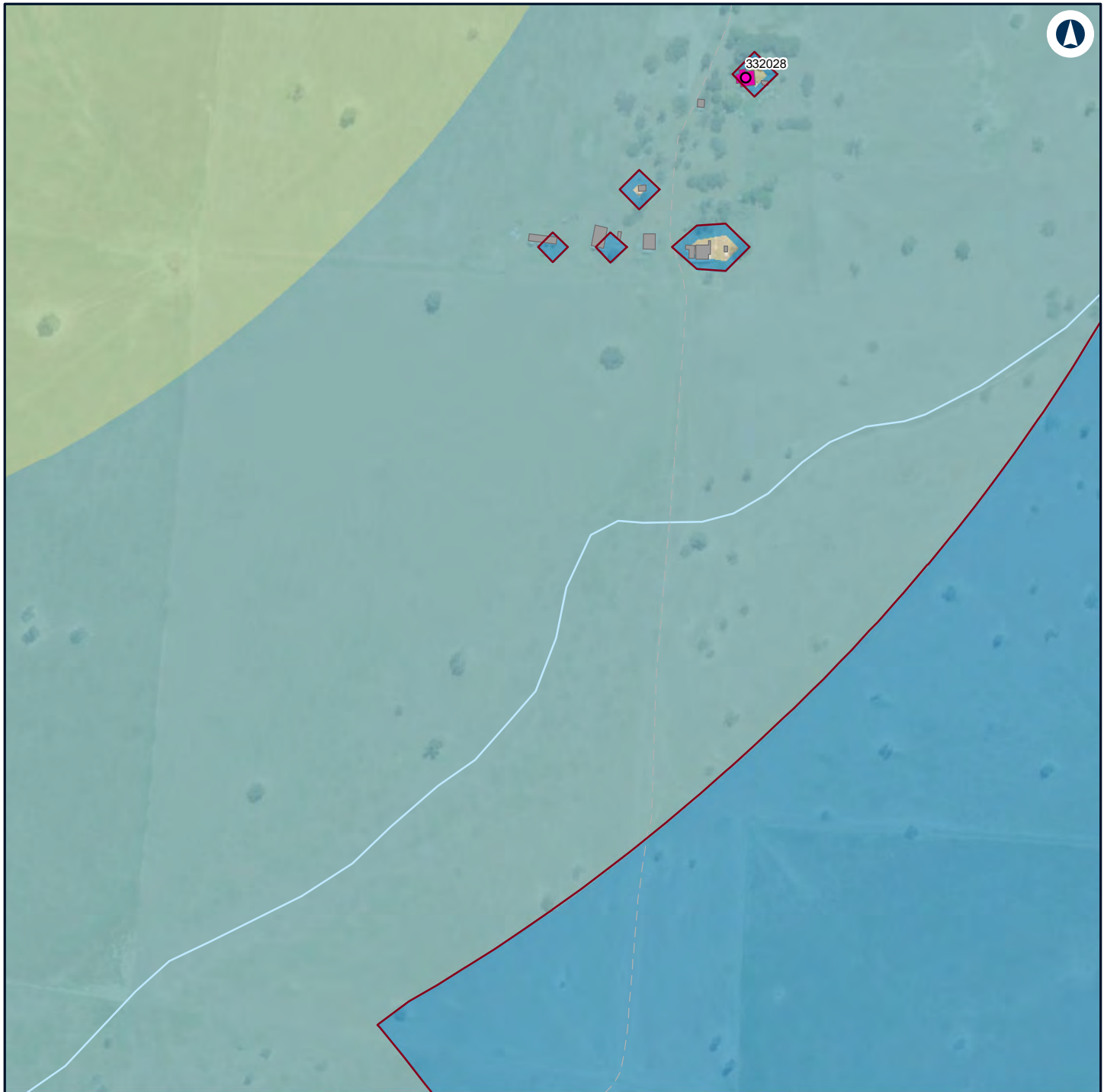
Paper: A4
Scale: 1:5,000

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

INLAND RAIL

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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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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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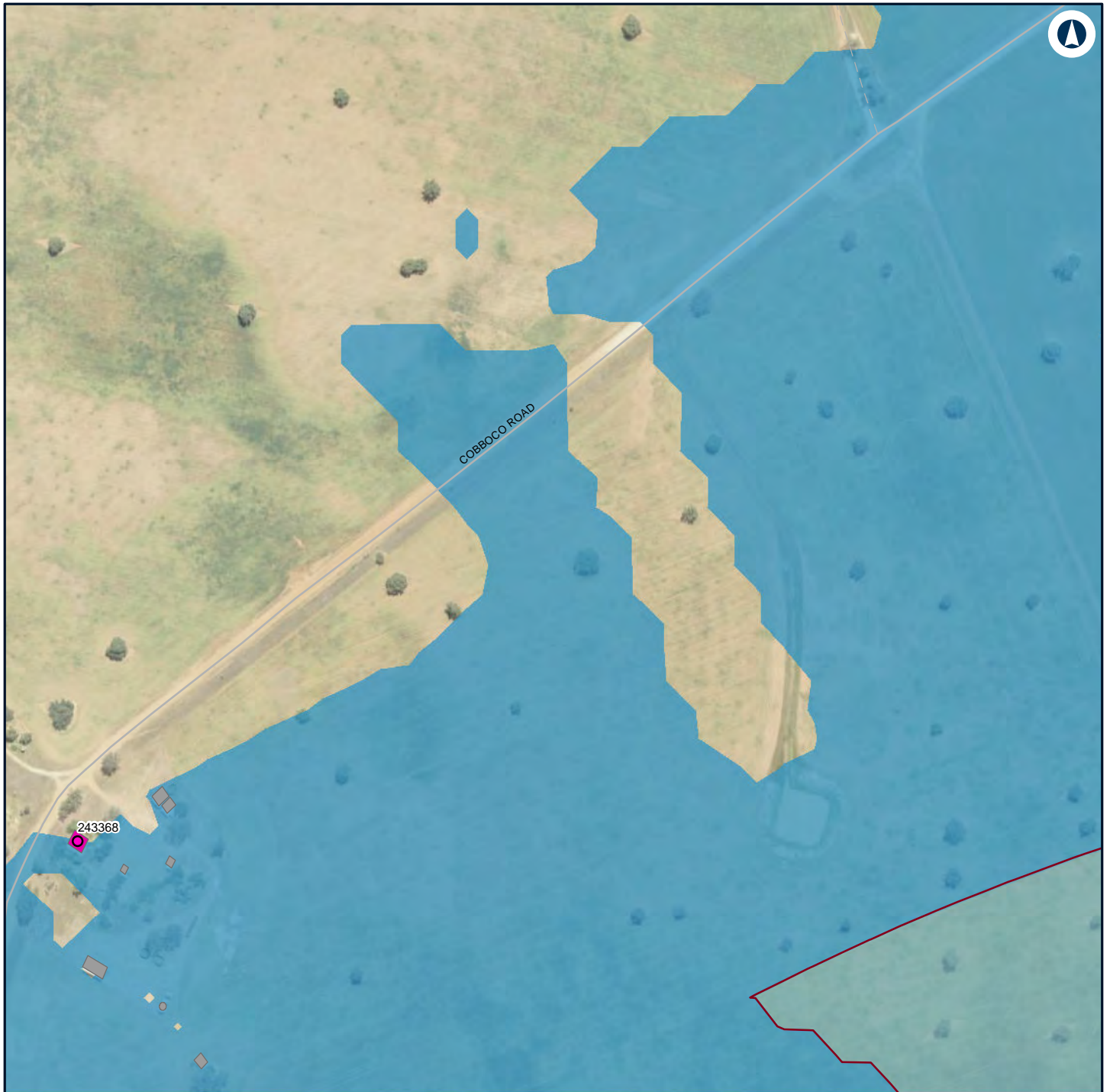
Author: GHD

Scale: 1:5,000

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

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LEGEND

Structure type 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 87 of 304

0 0.1 0.2
Km

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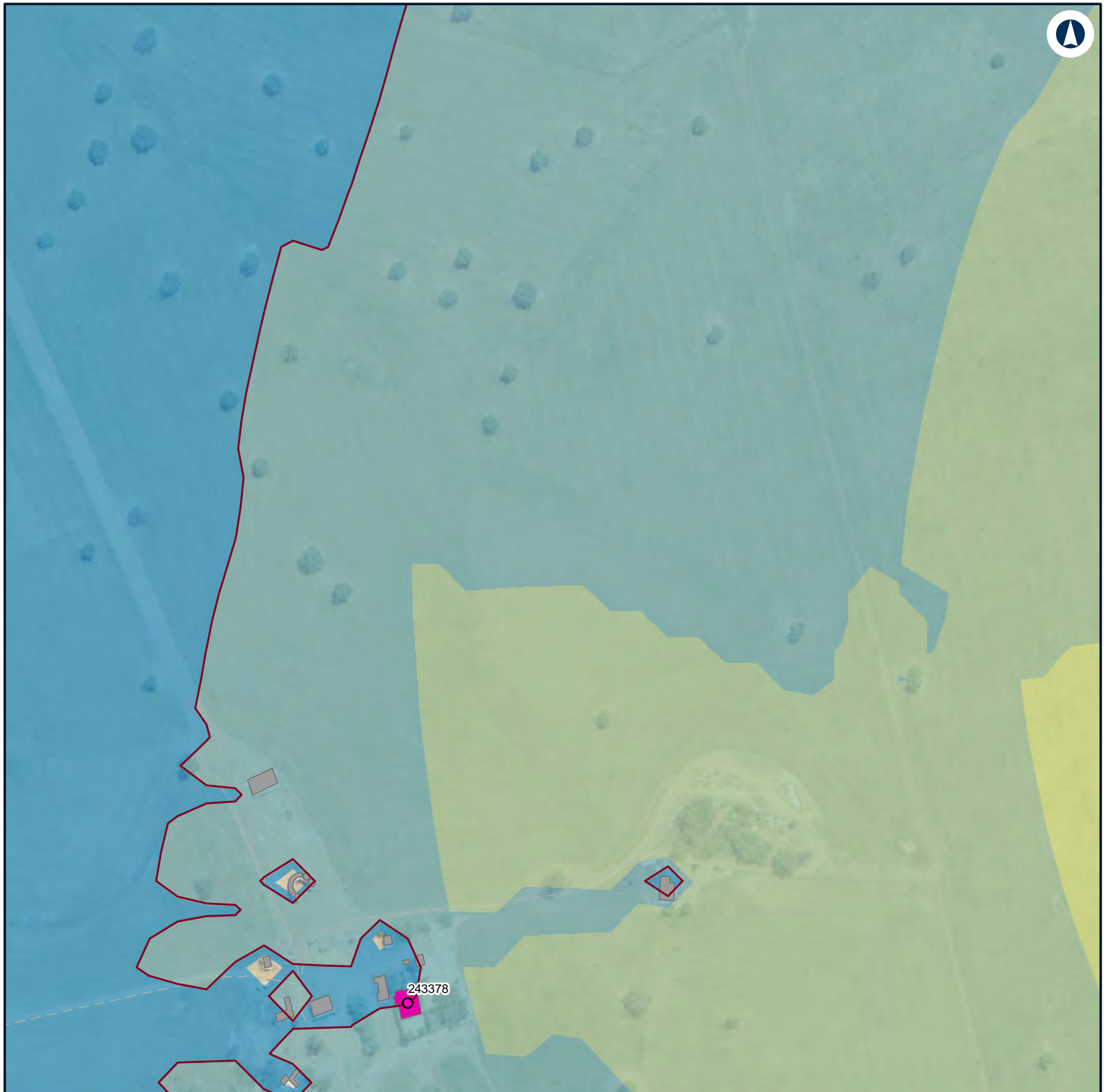
Author: GHD

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	
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

0 0.1 0.2
Km

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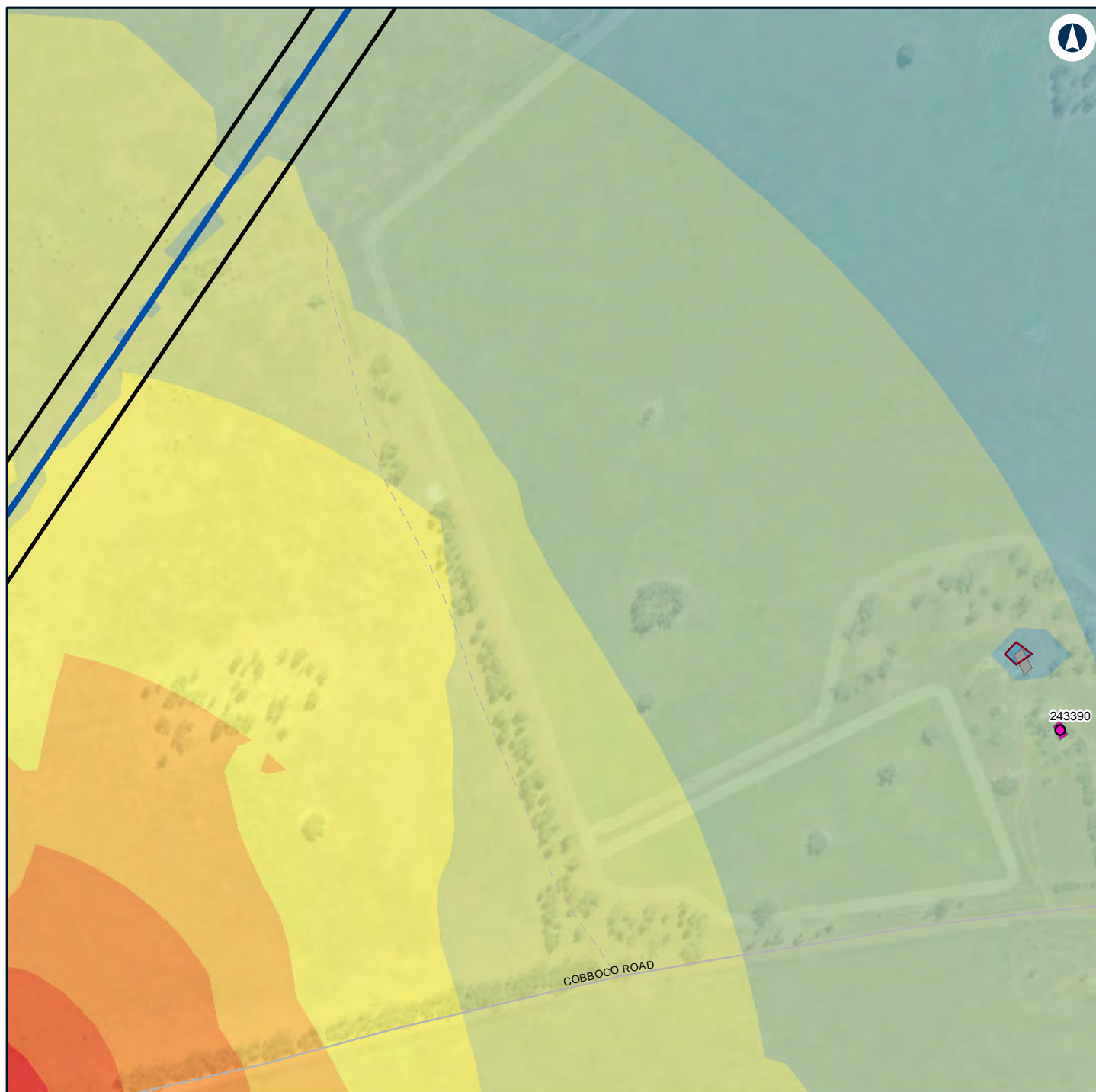
Author: GHD

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

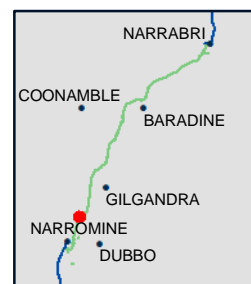
50 - 55

55 - 60

60 - 65

65 - 70

70 - 75



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 89 of 304

0 0.1 0.2
Km

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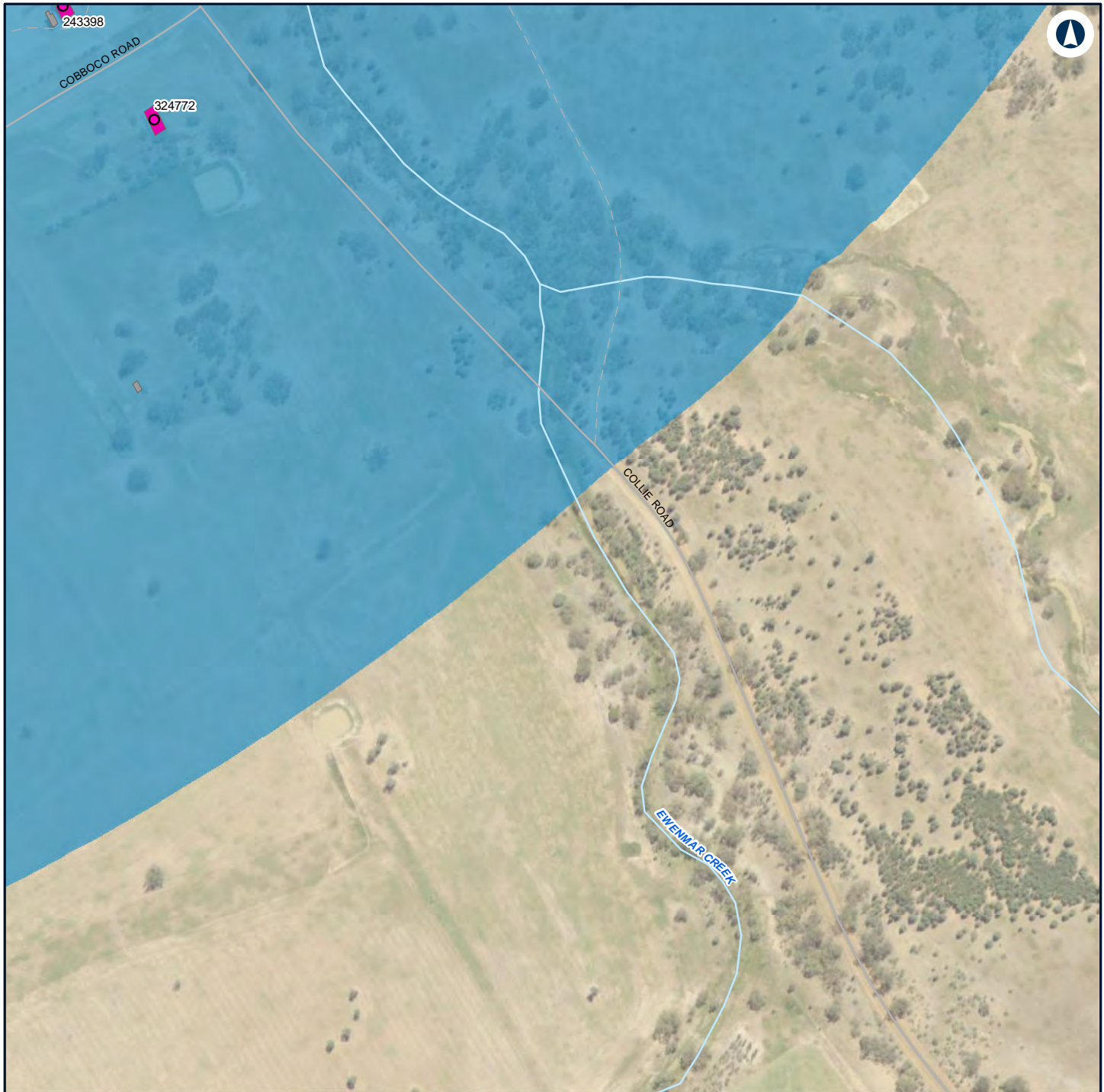
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LEGEND

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

0 0.1 0.2
Km

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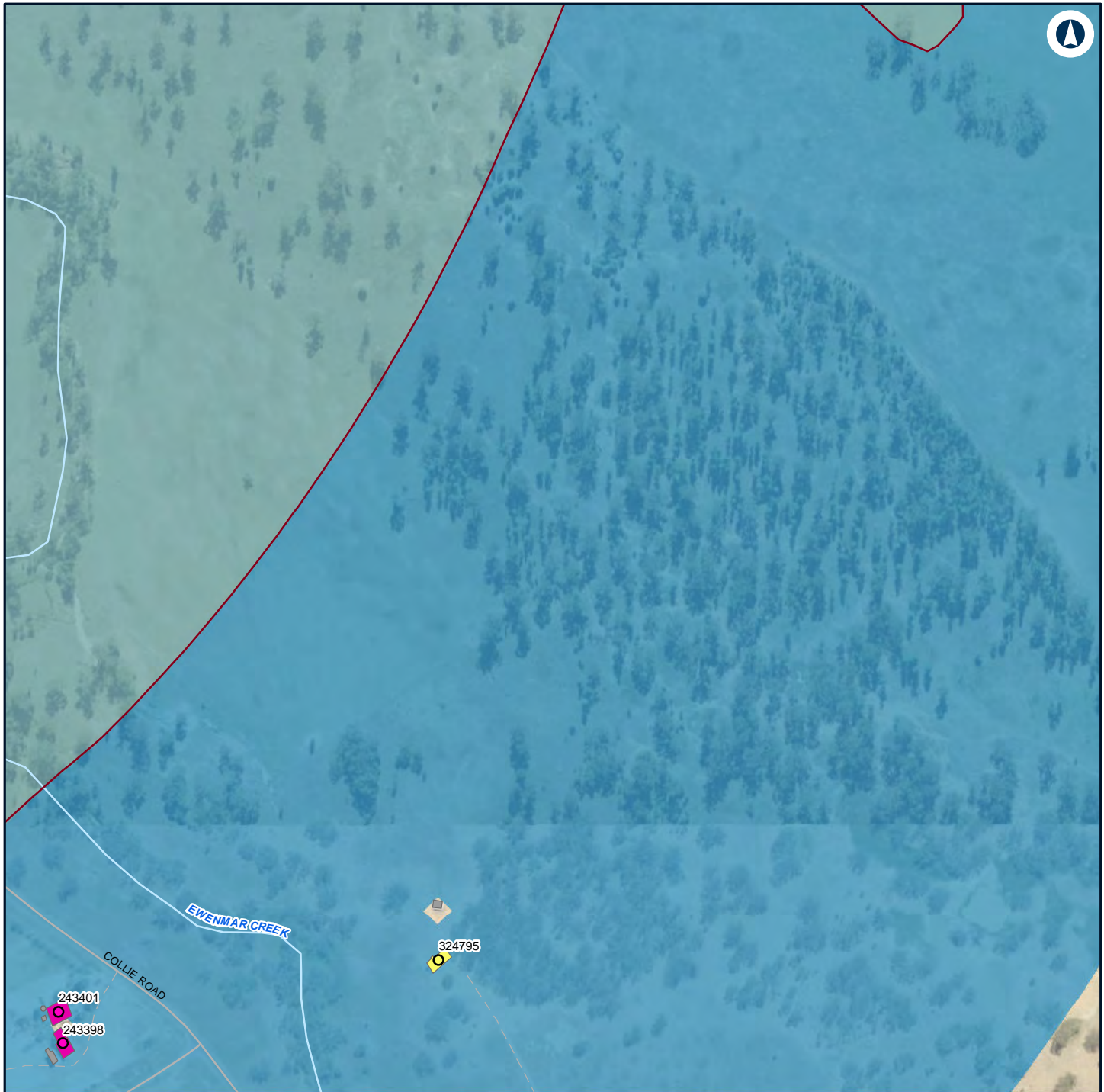
Author: GHD

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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)
Community	30 - 35
Residential	35 - 40
Community	
Other	
Residential	



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 91 of 304

0 0.1 0.2
Km

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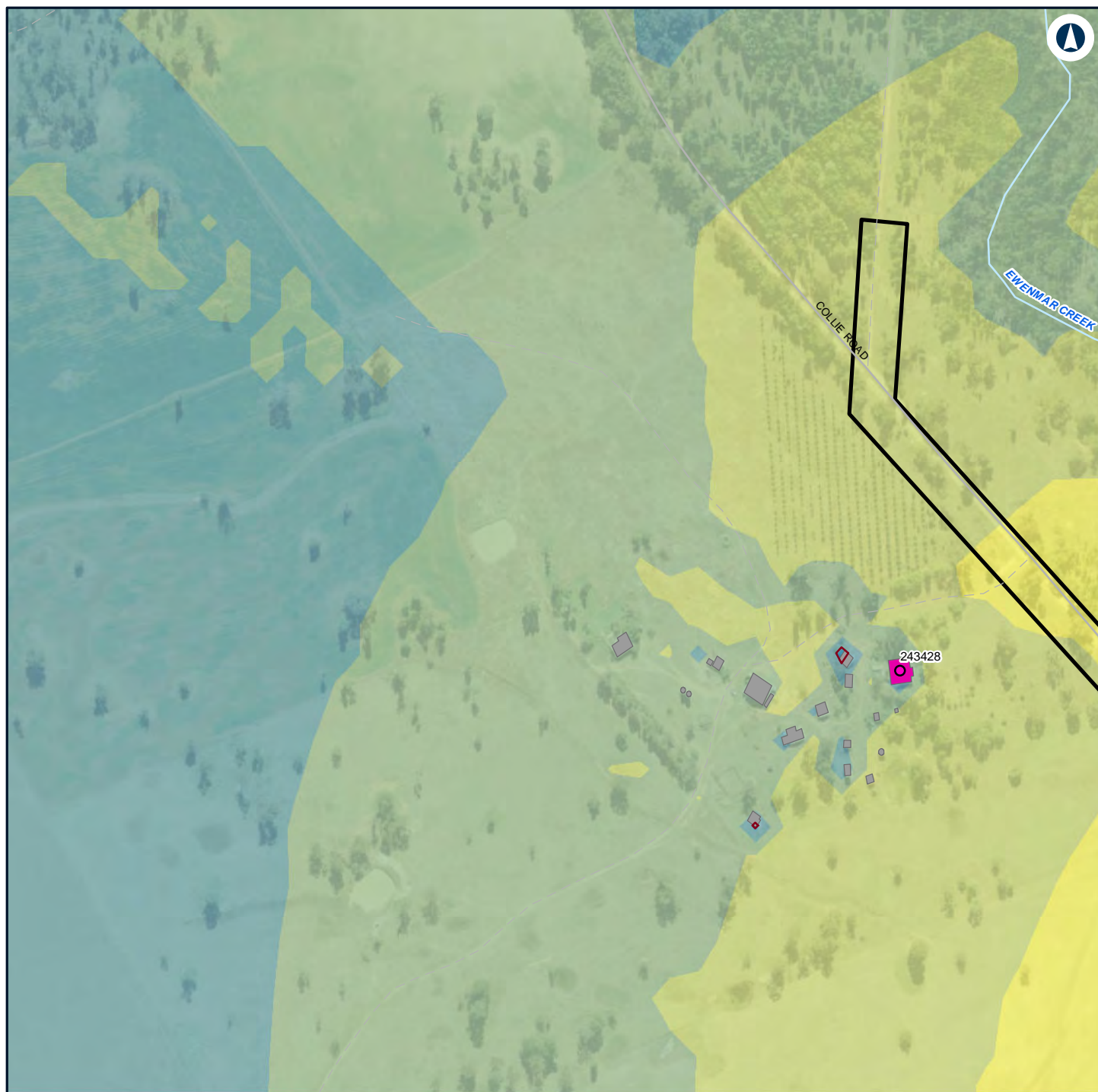
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Scale: 1:5,000

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RAIL** **ARTC**

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LEGEND

Construction footprint

Structure type

Residential

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

Appendix G - Page 92 of 304

0 0.1 0.2
Km

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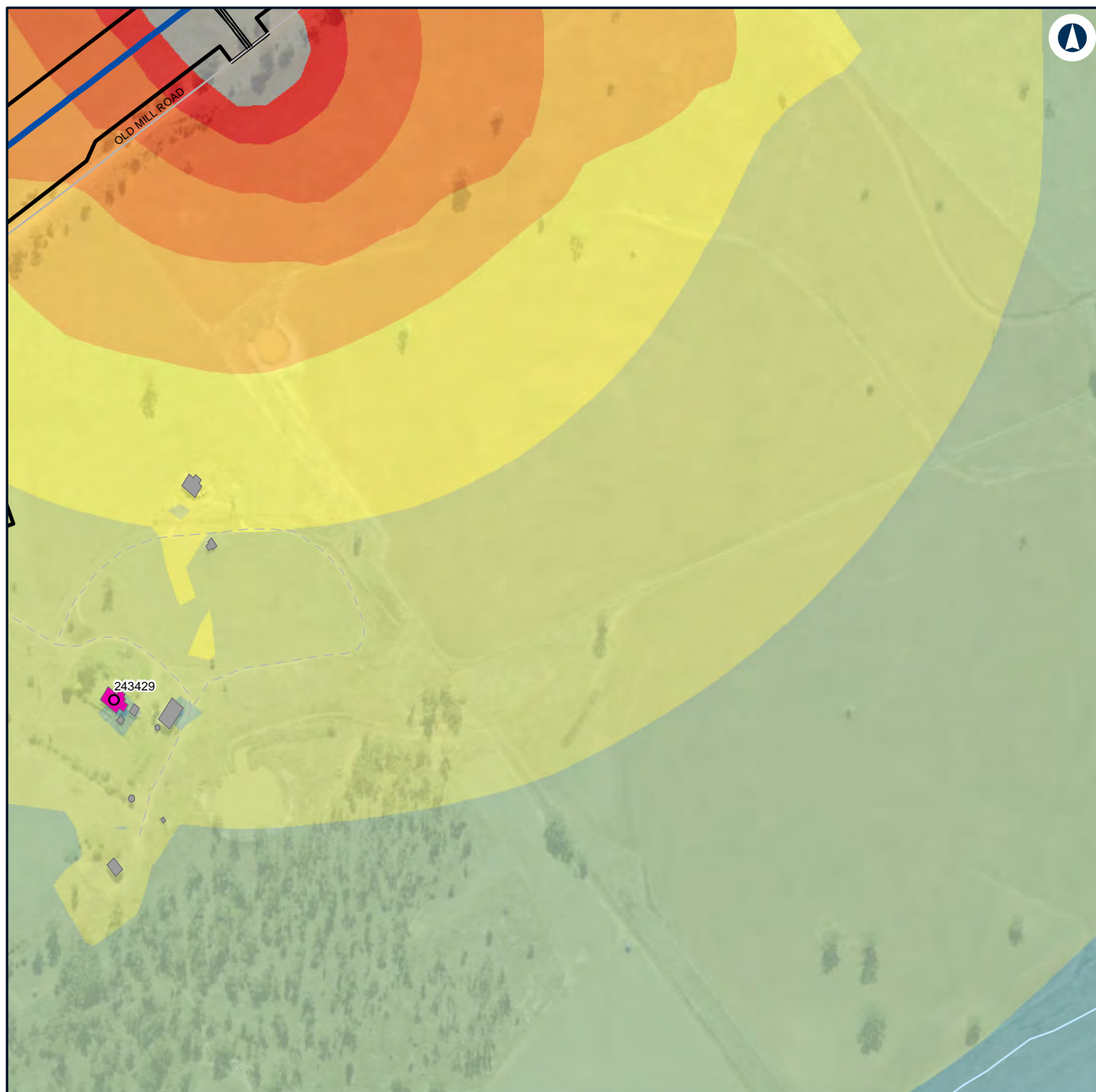
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

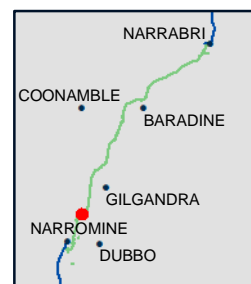
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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 93 of 304

0 0.1 0.2
Km

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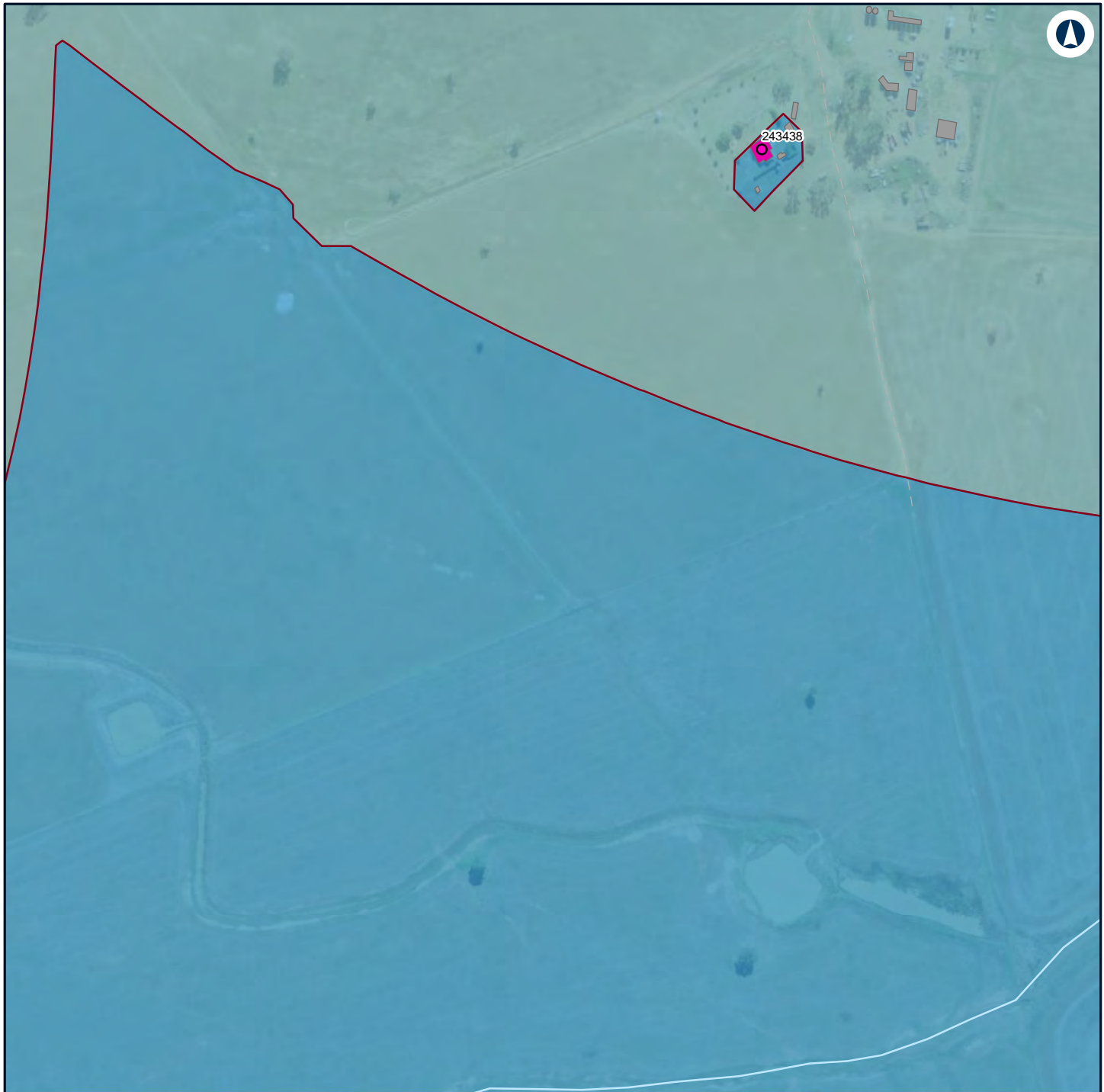
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Data Sources: Basemap layers: NSWSS; All other layers: JacobsGHD

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LEGEND

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 94 of 304

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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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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 96 of 304

0 0.1 0.2
Km

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Date: 16/07/2020

Paper: A4

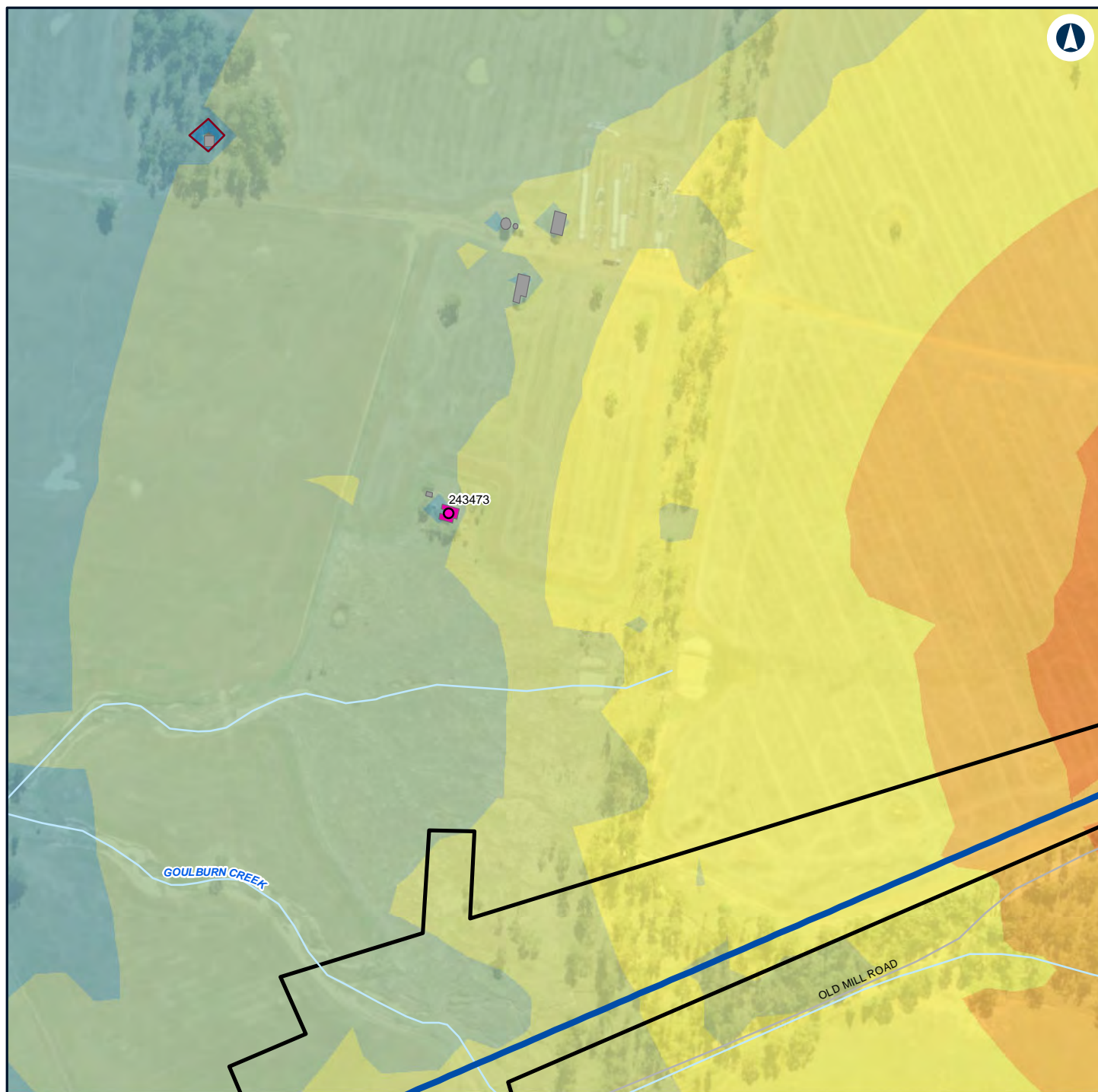
Author: GHD

Scale: 1:5,000

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

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LEGEND

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

60 - 65



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2 Km

Coordinate System: GDA 1994 MGA Zone 55

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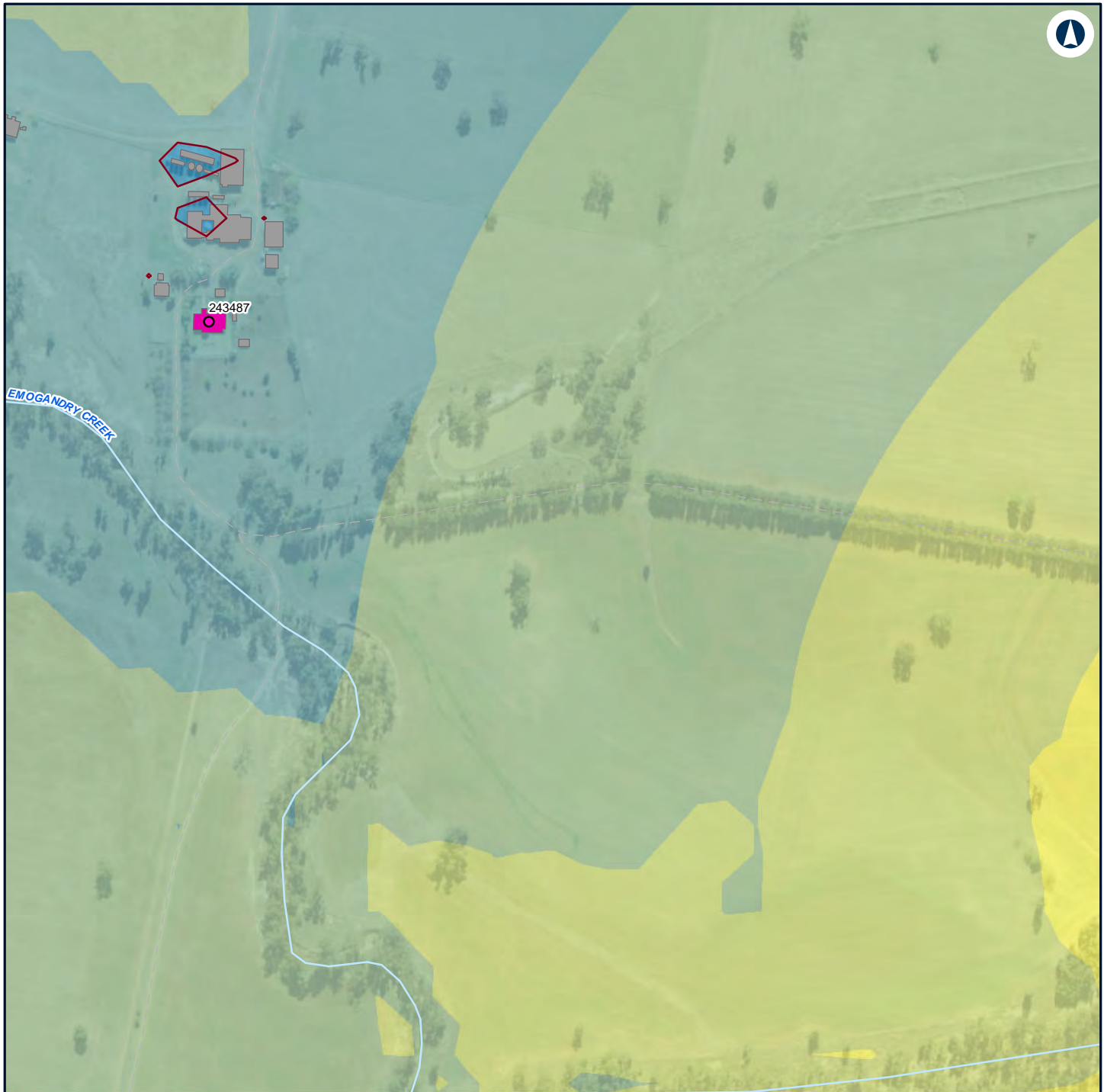
Author: GHD

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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)

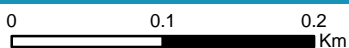
	30 - 35
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NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

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



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

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0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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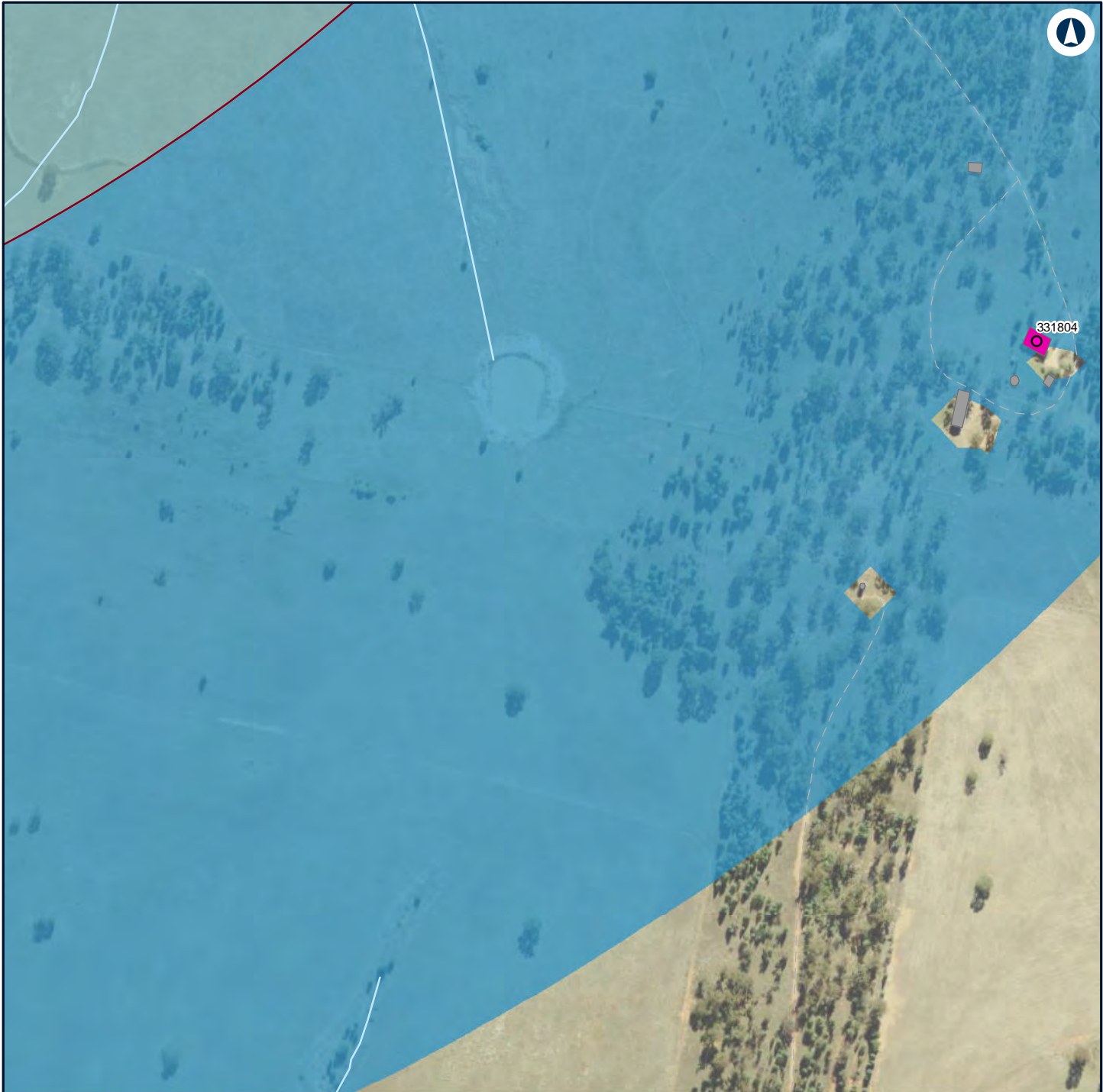
Author: GHD

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RAIL** **ARTC**

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LEGEND

Structure type

Residential

Other

Residential

Noise level (dBA L

Aeq 15 minute)

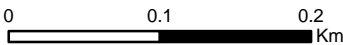
30 - 35



NARROMINE TO NARRABRI

Construction noise contours, Scenario ROAD03 - Road Earthworks

Appendix G - Page 100 of 304



Coordinate System: GDA 1994 MGA Zone 55

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