

TECHNICAL REPORT

INLAND
RAIL 

9

Noise and vibration assessment – operational rail

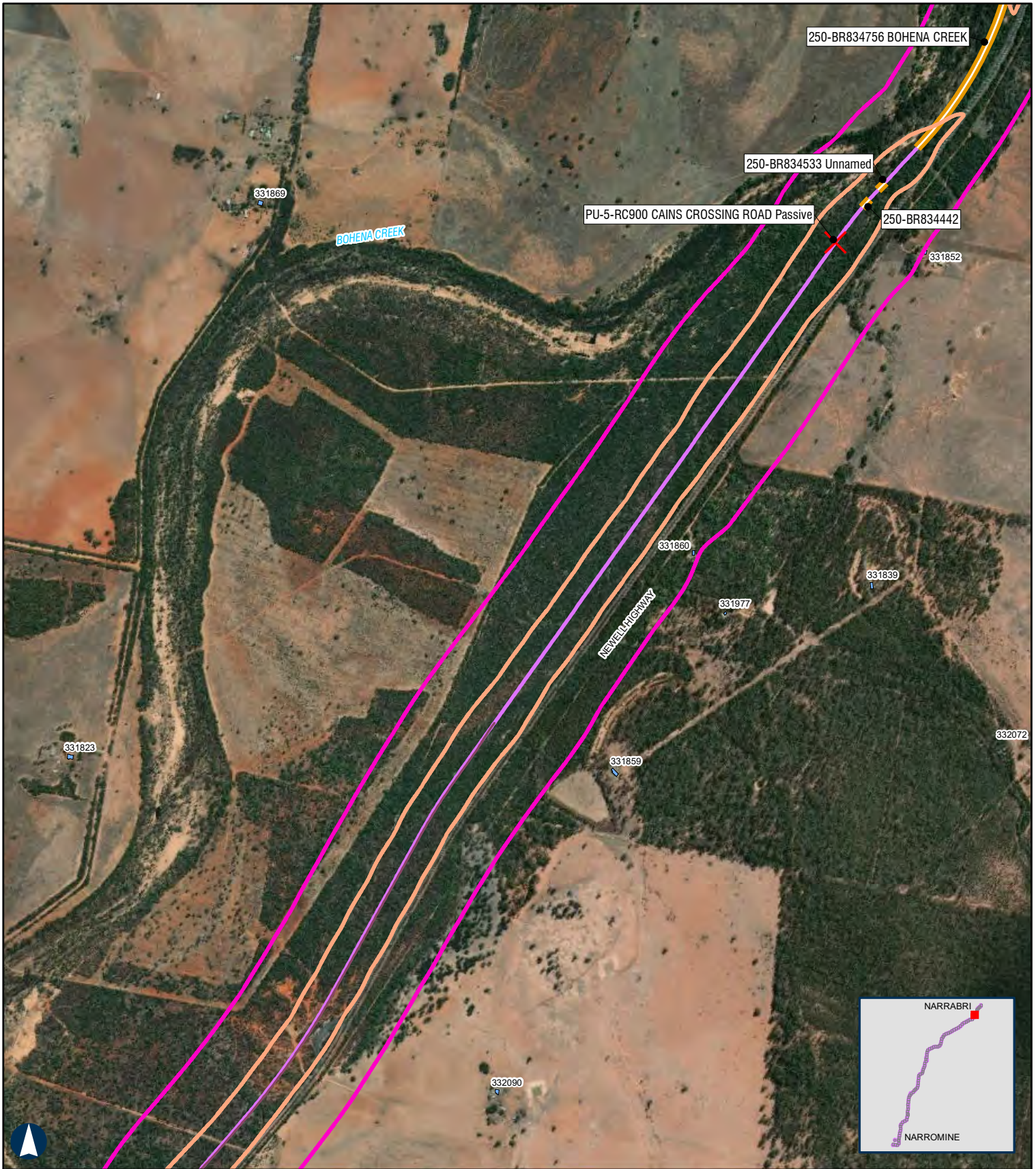
PART 4 OF 4

Appendix E continued...

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.



NARROMINE TO NARRABRI Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 78 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
Date: 31-Jul-2020
Author: JG

Scale: 1:20,000

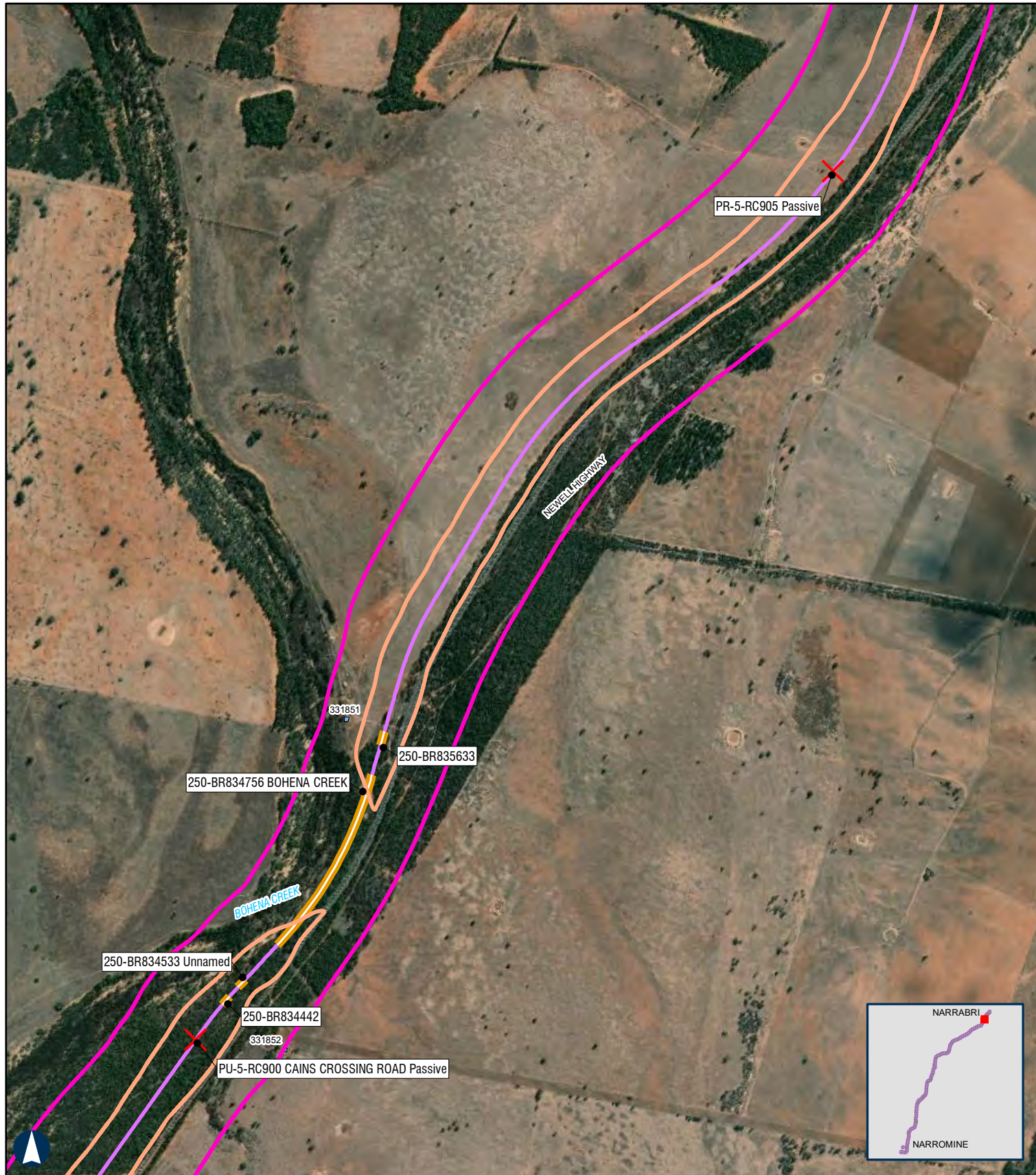
- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

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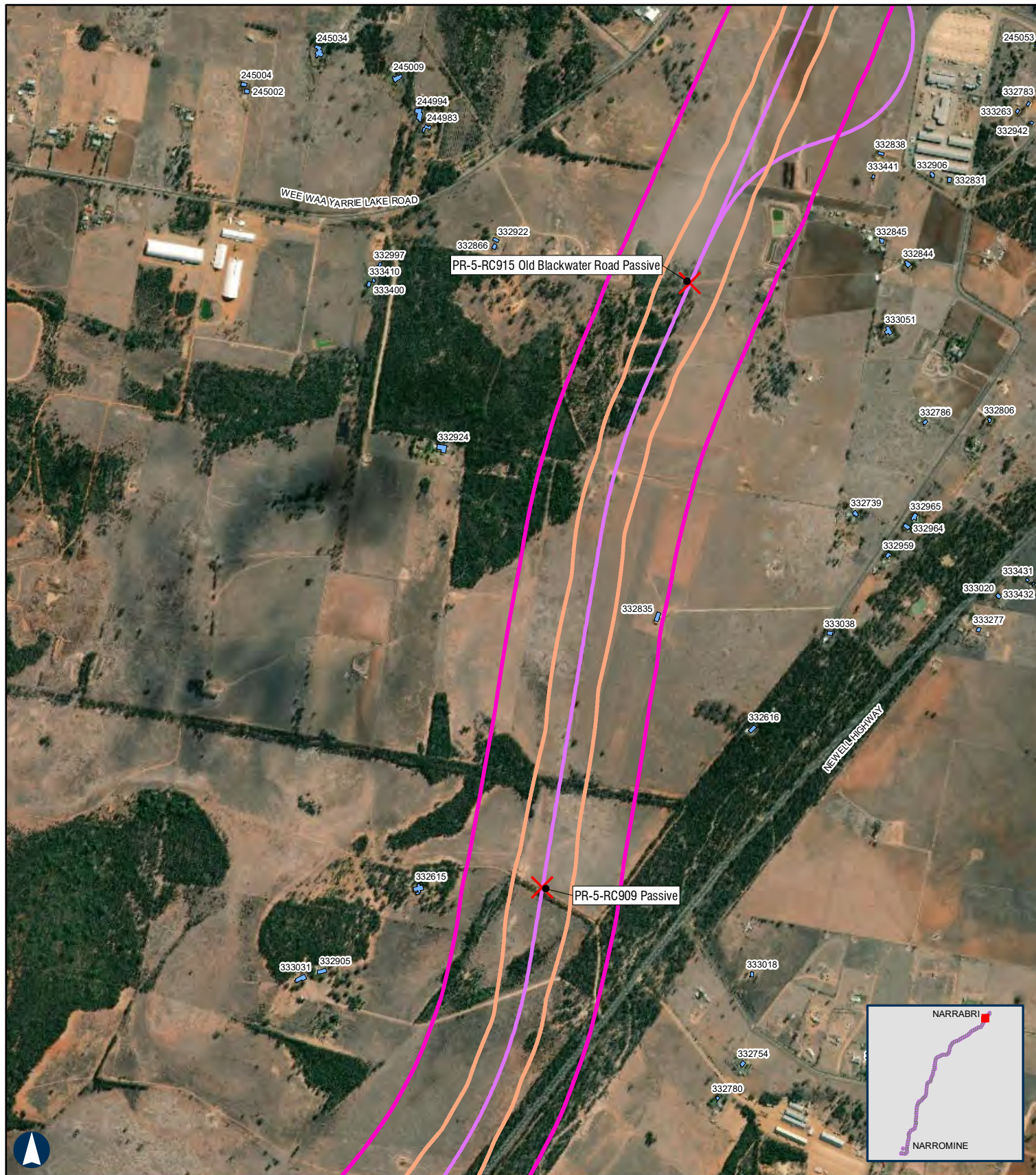
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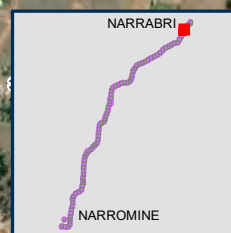
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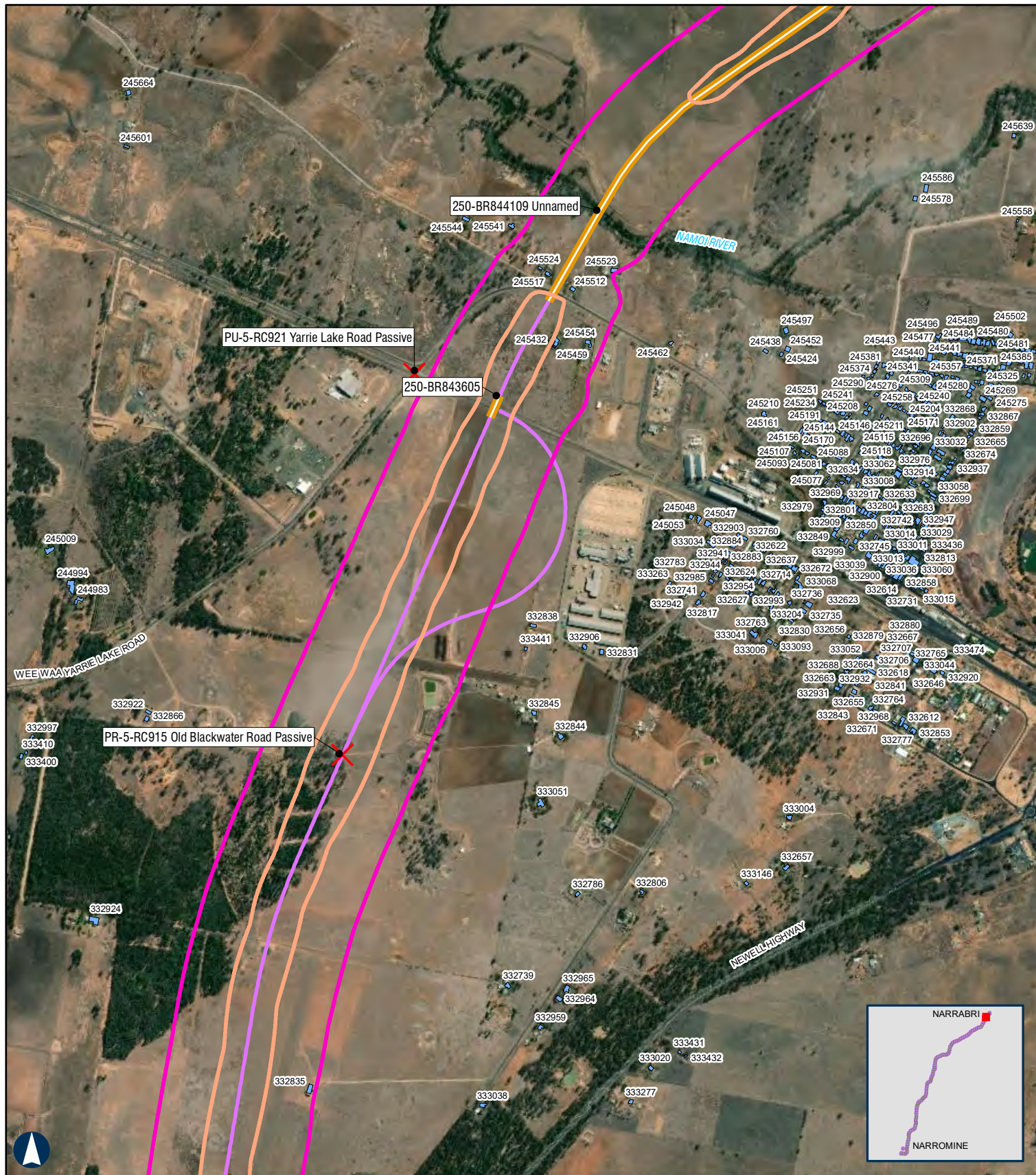
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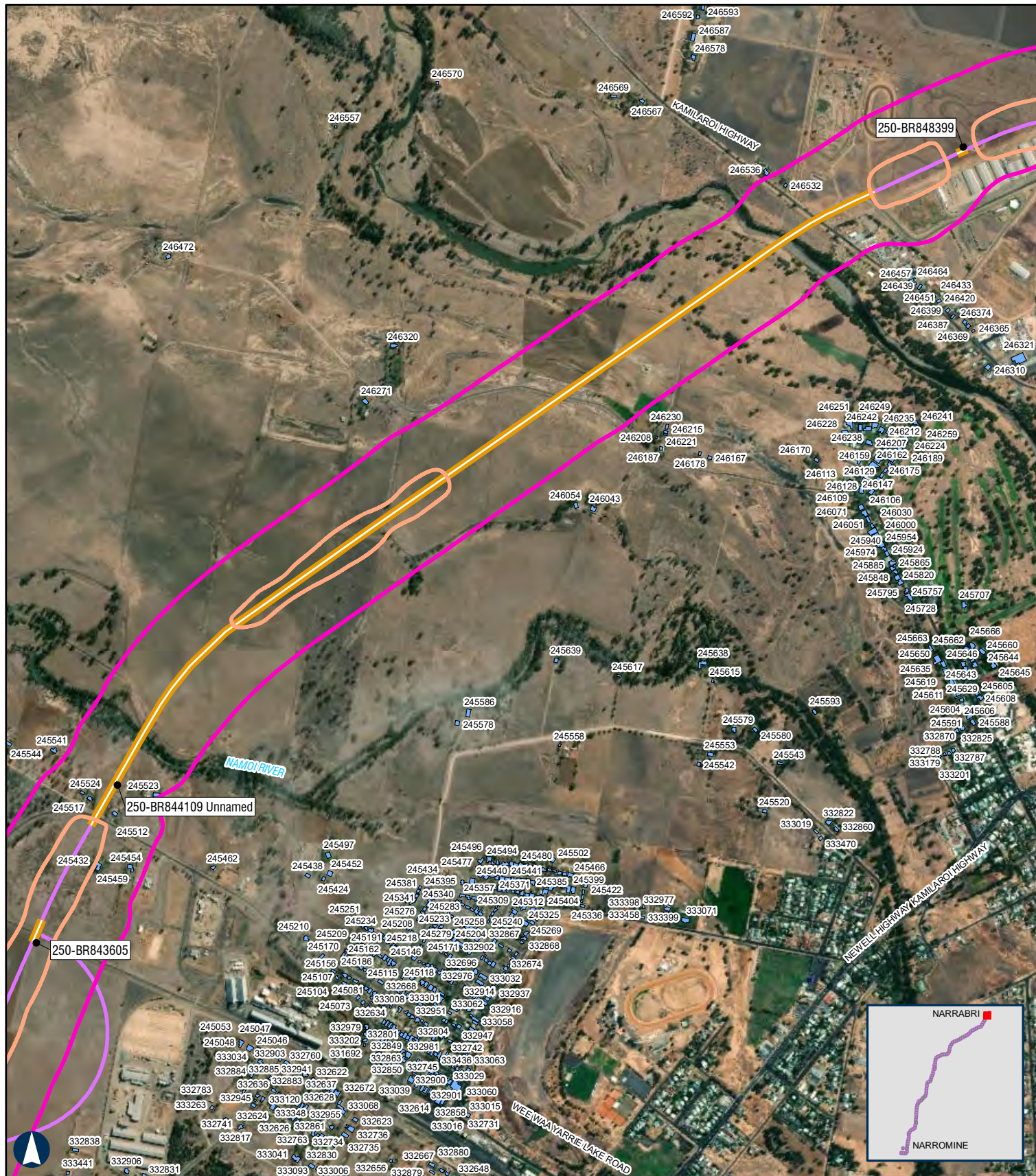
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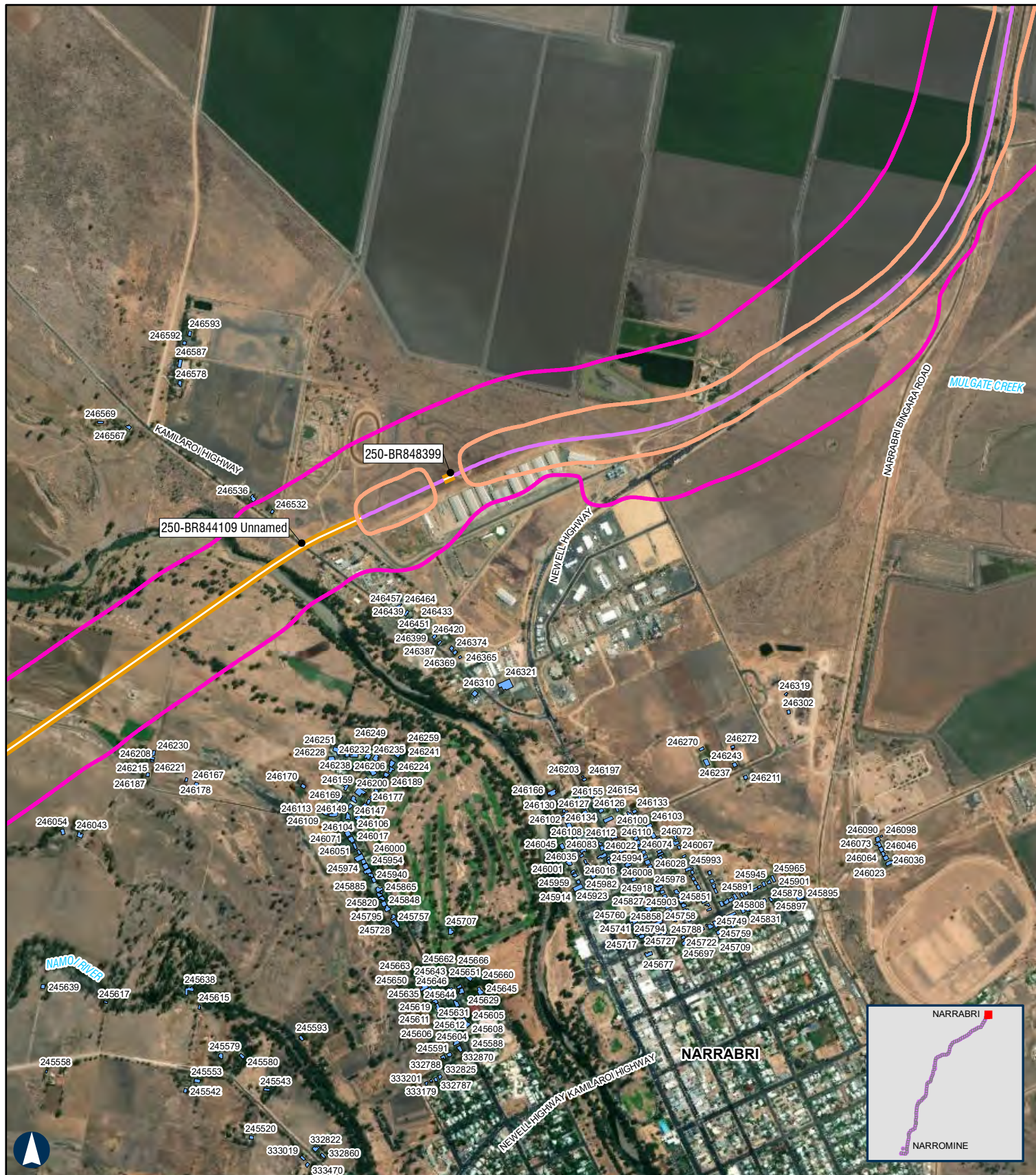
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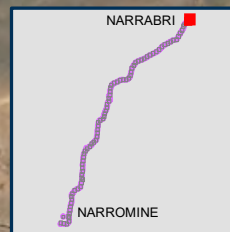
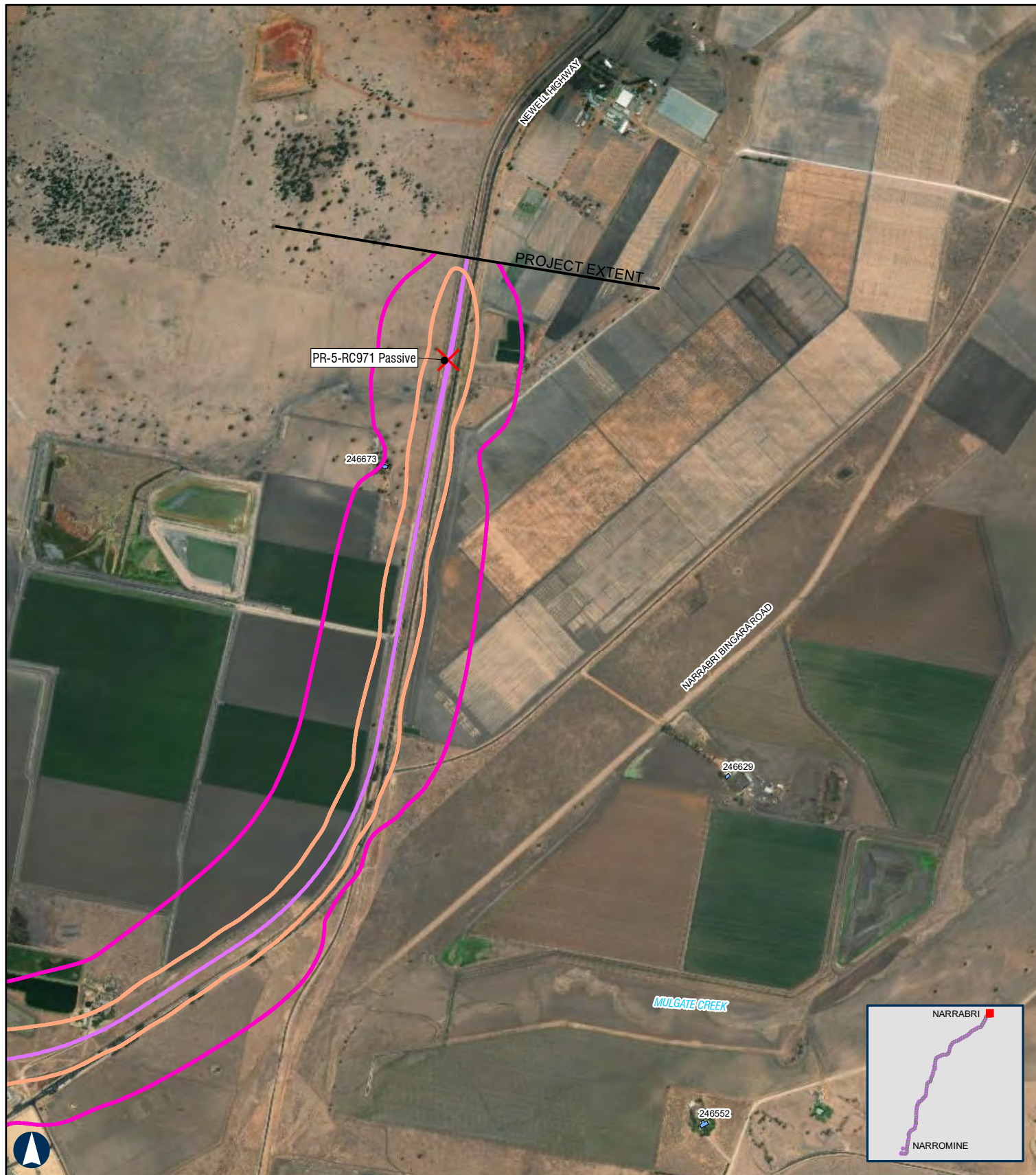
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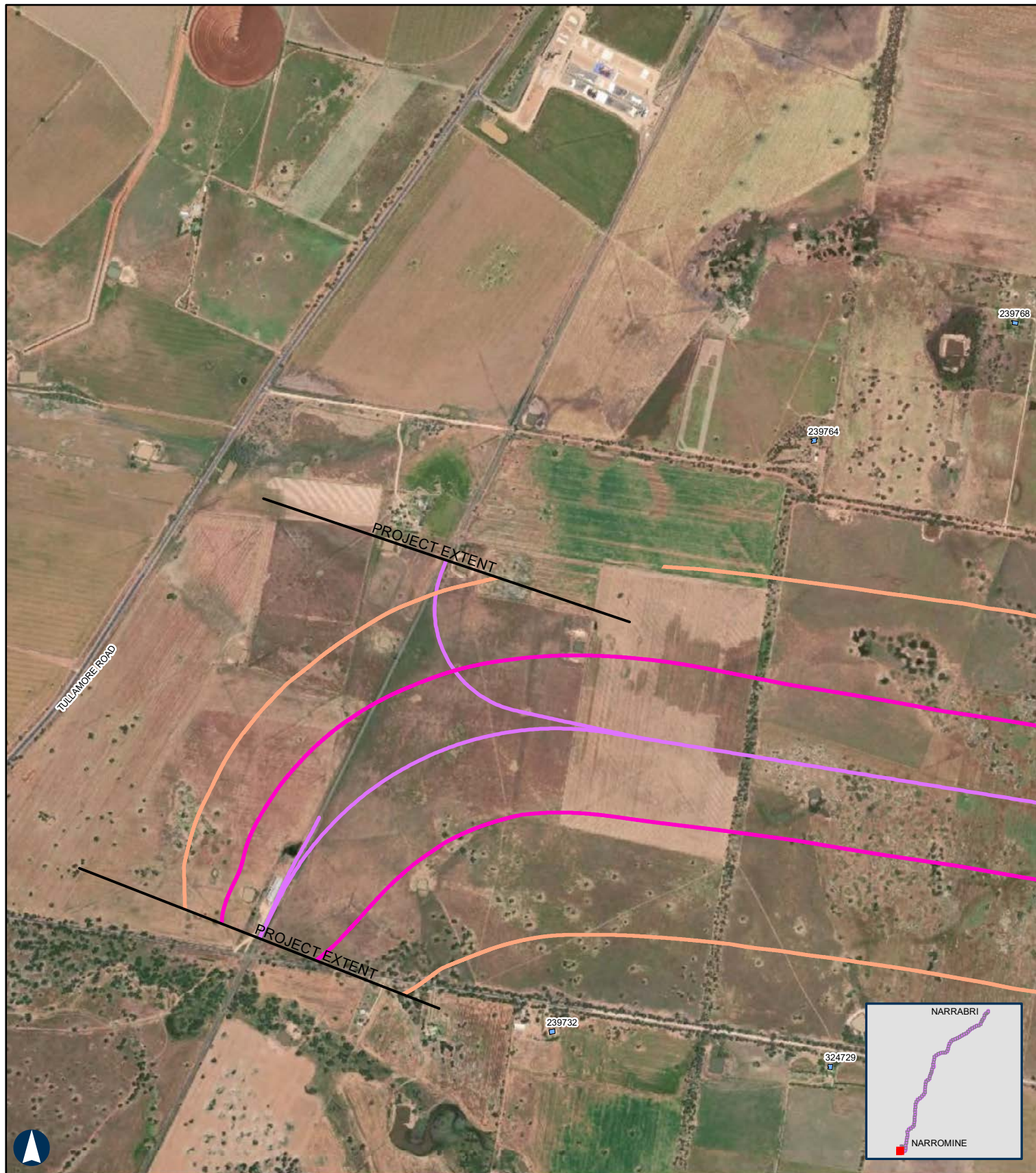
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 85 of 168

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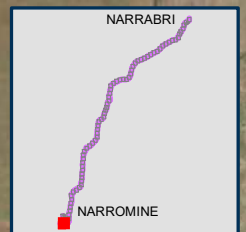
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 86 of 168

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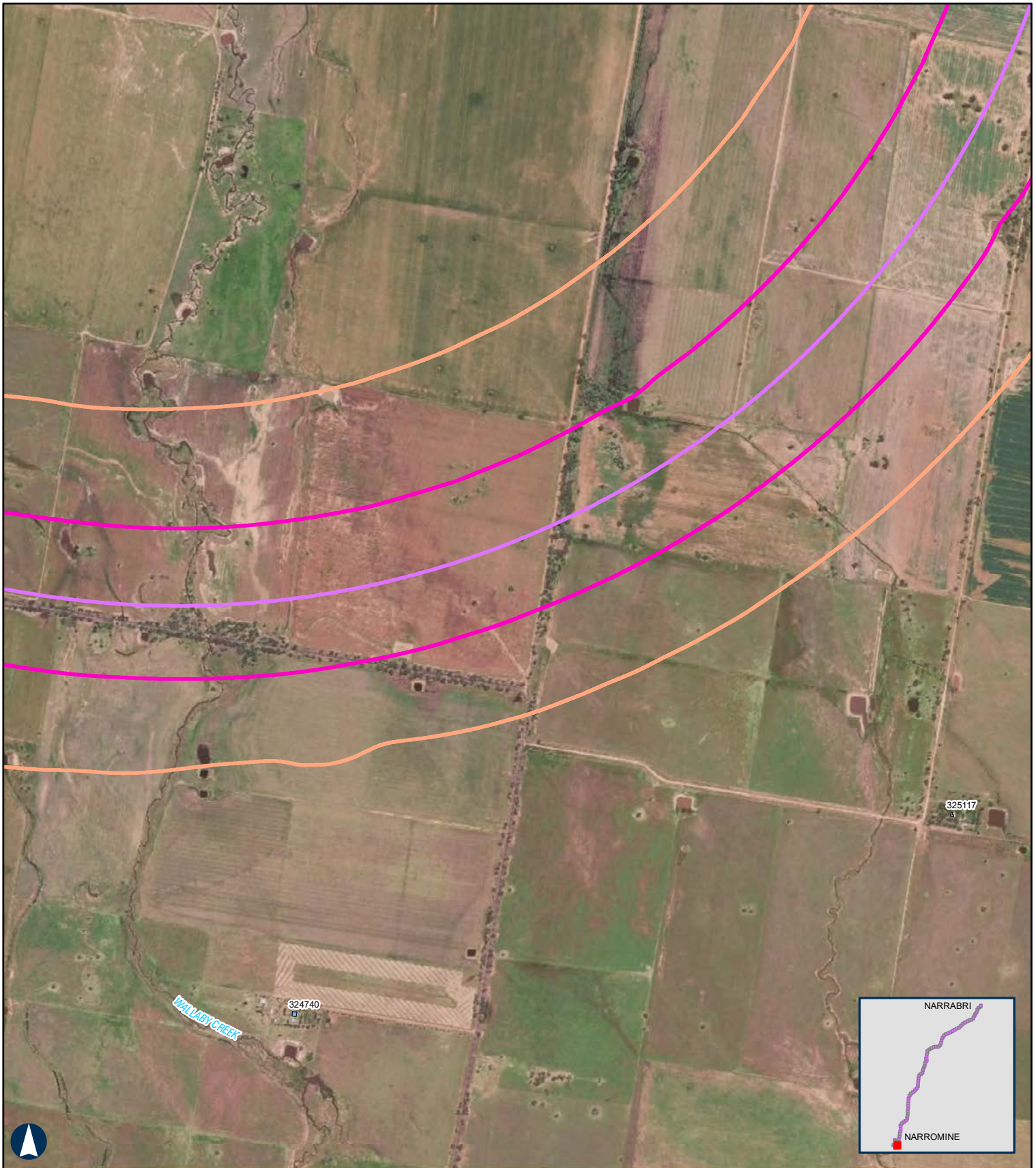
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 87 of 168

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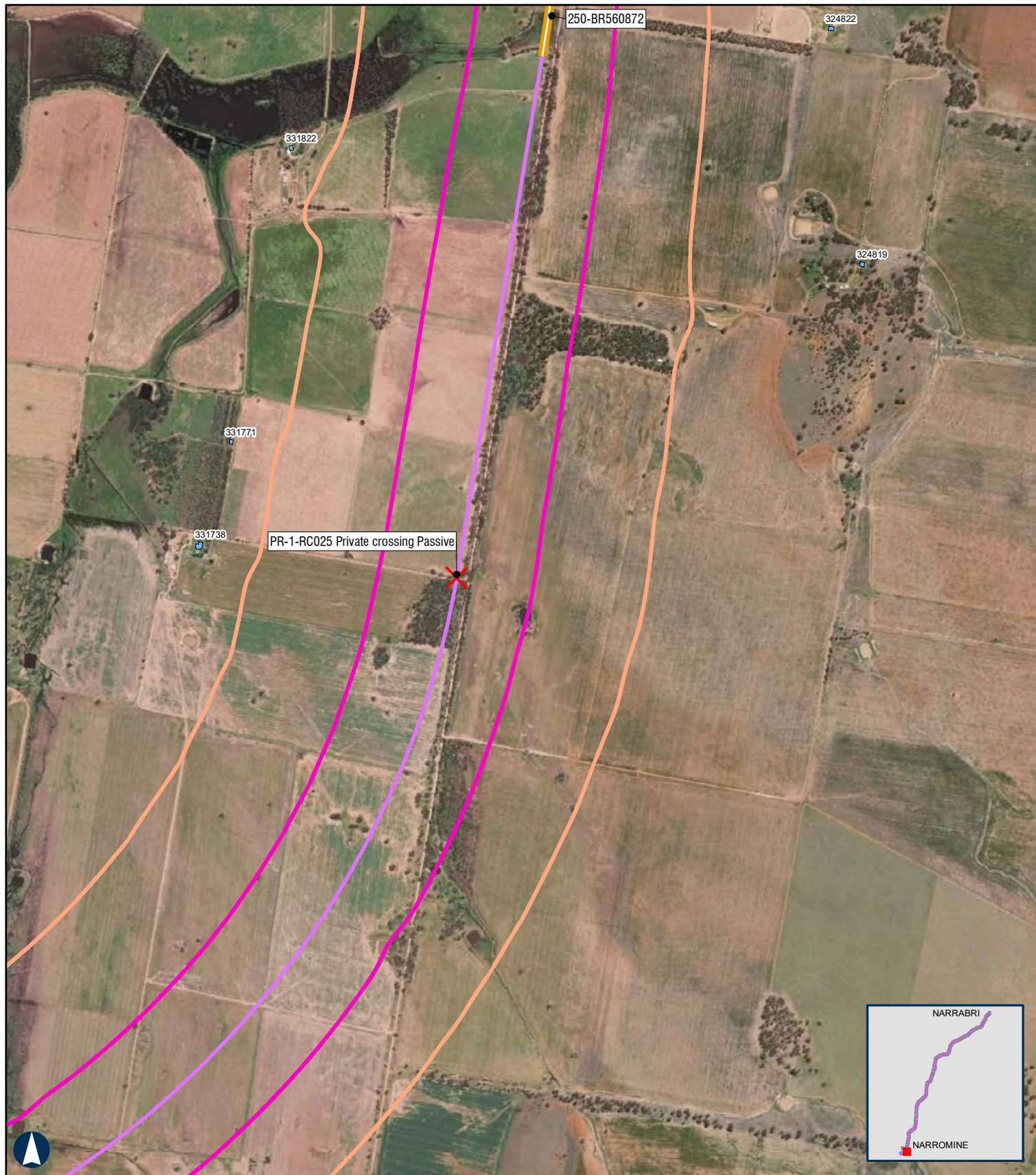
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 88 of 168

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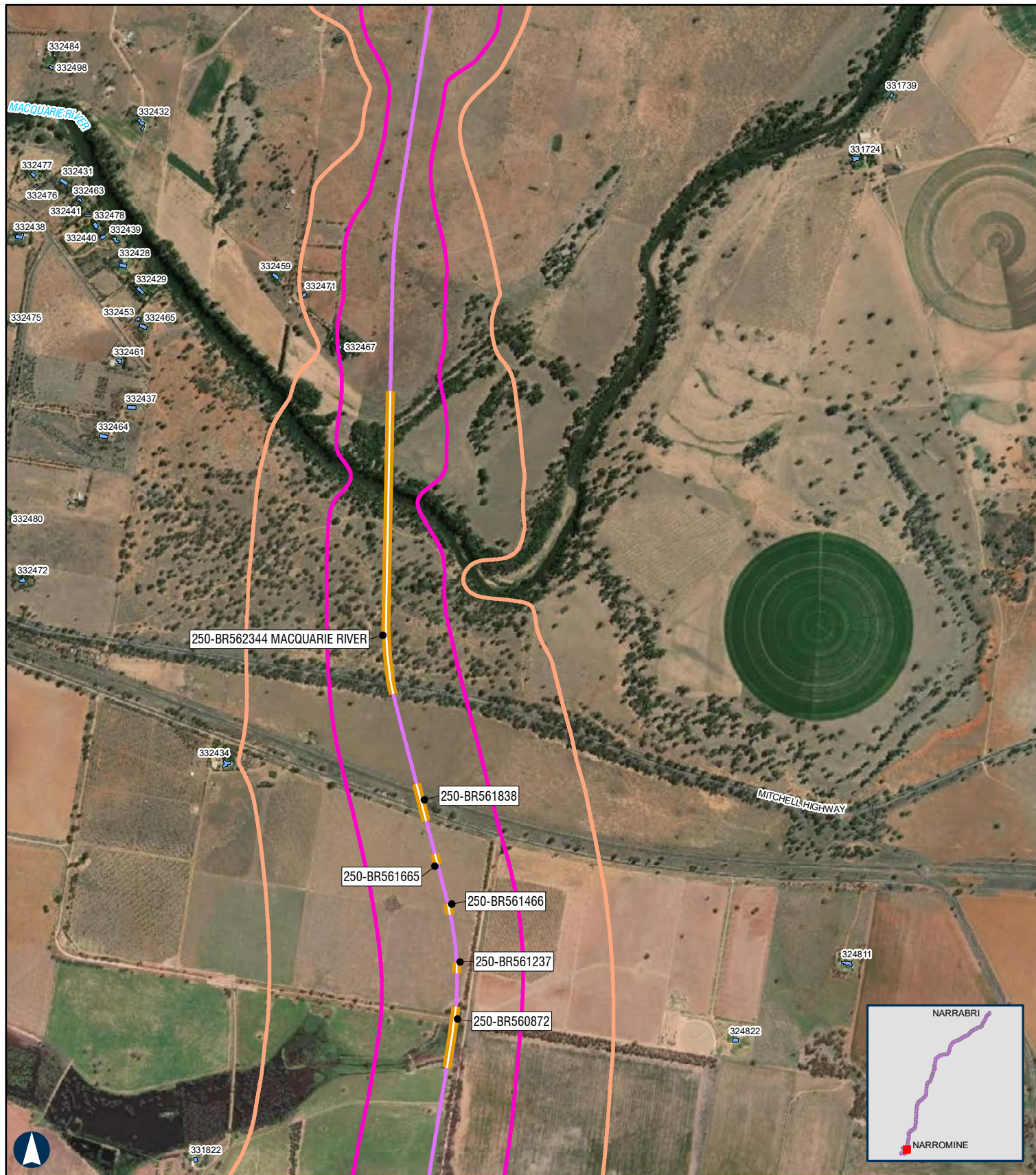
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

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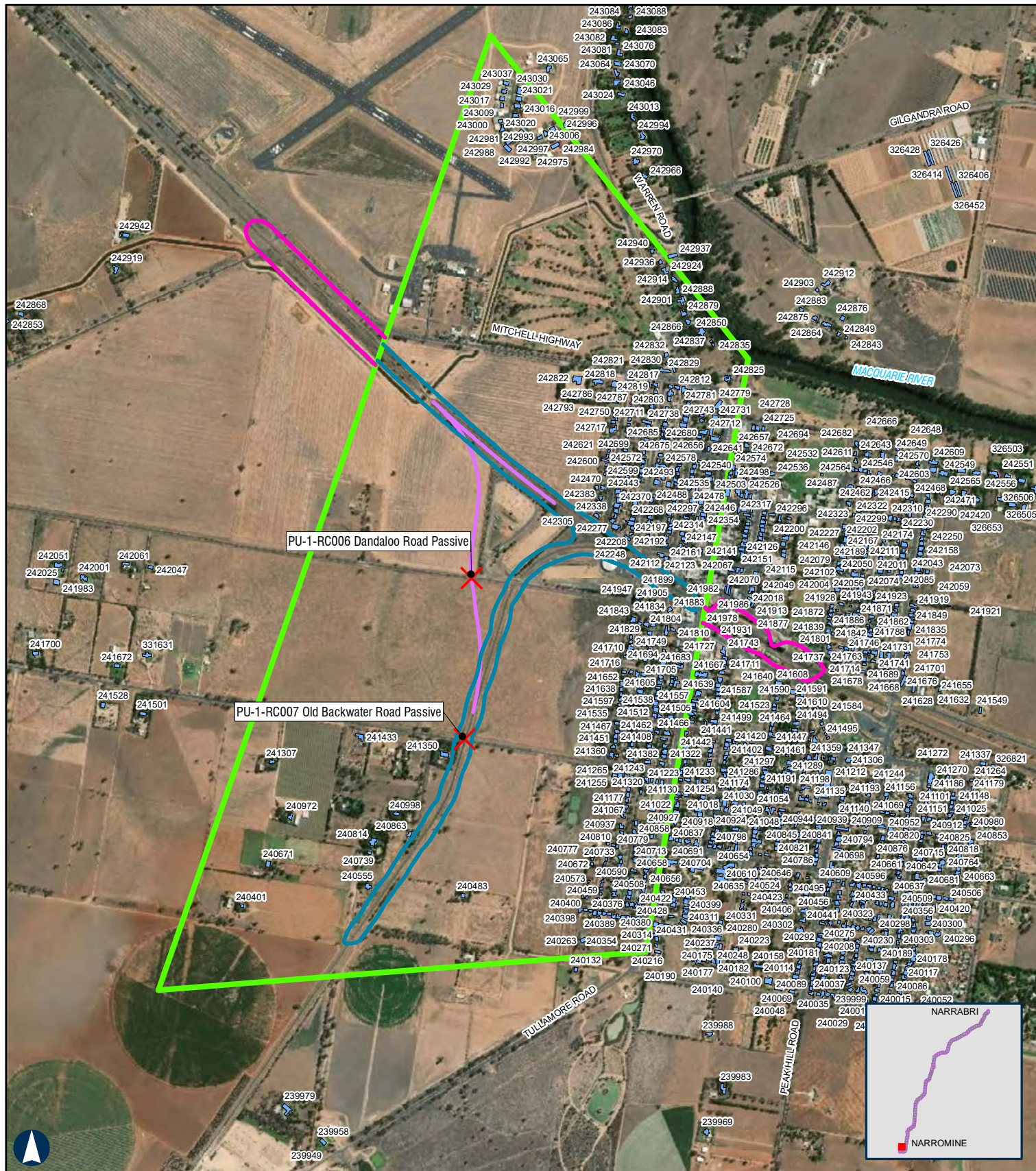
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

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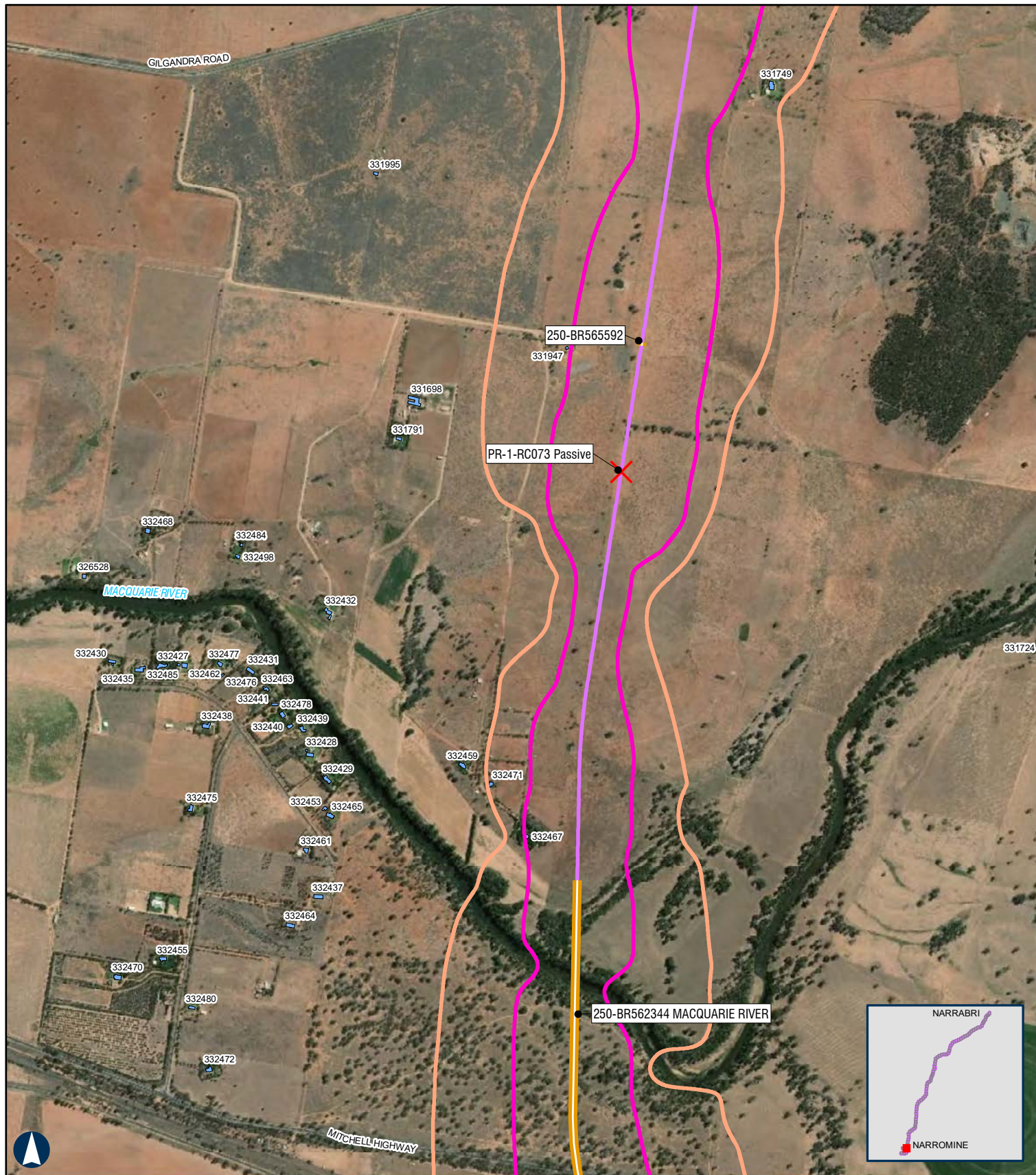
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Year 2040 Night-time Rail Noise Levels

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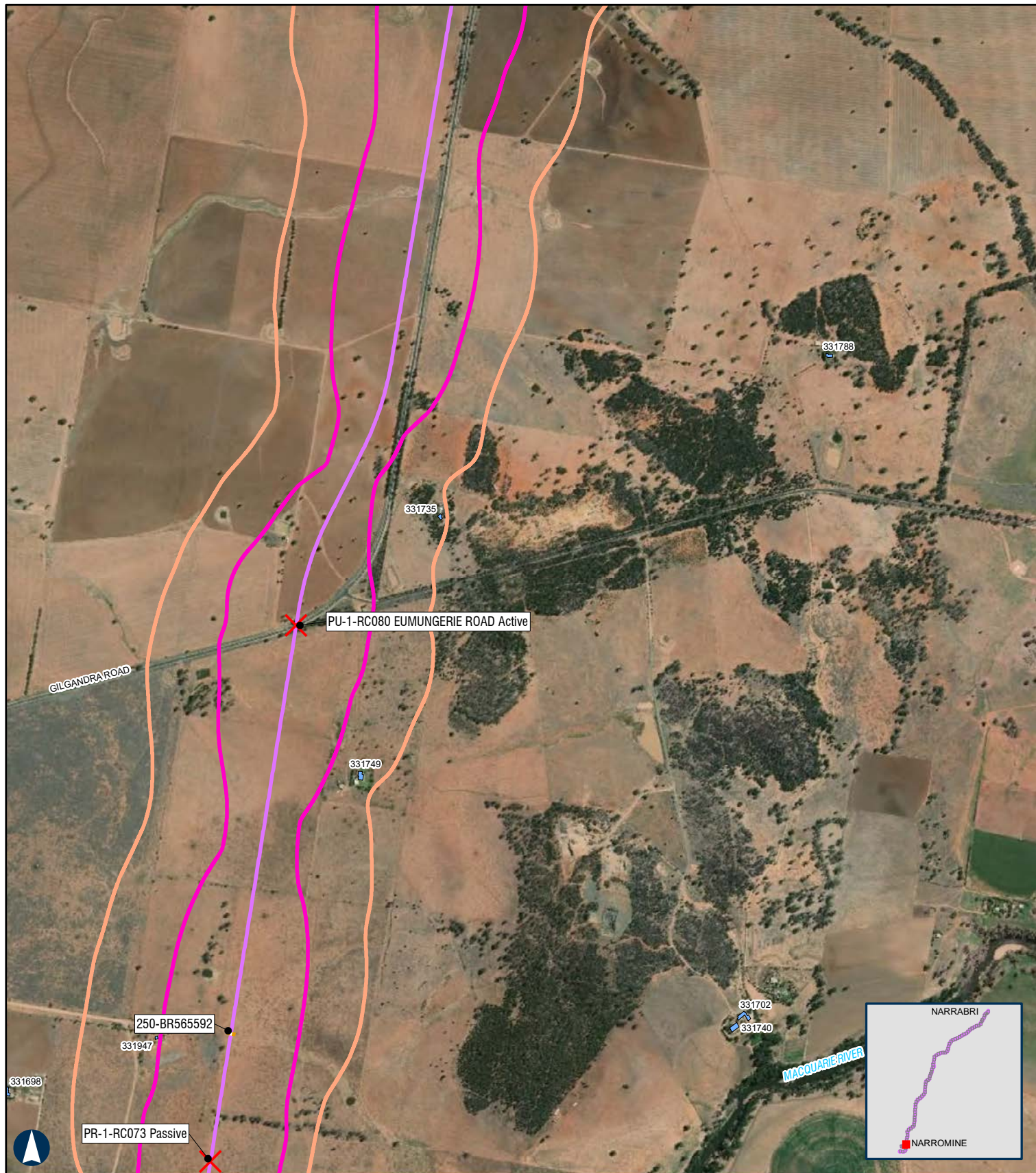
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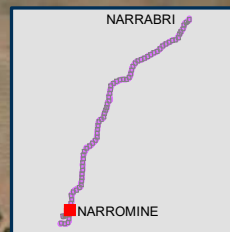
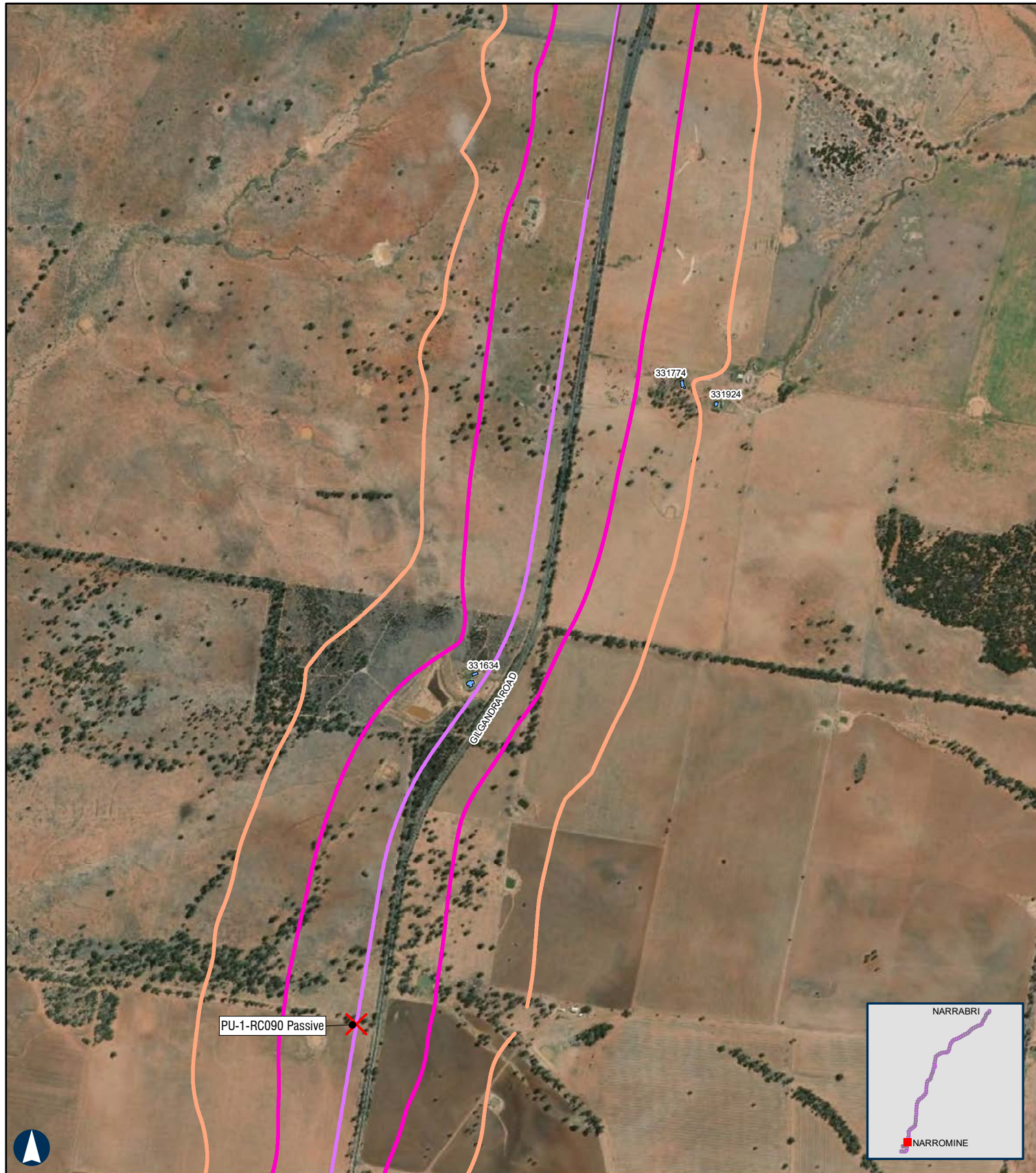
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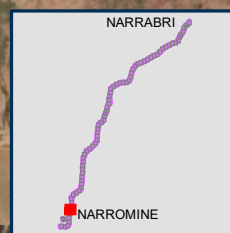
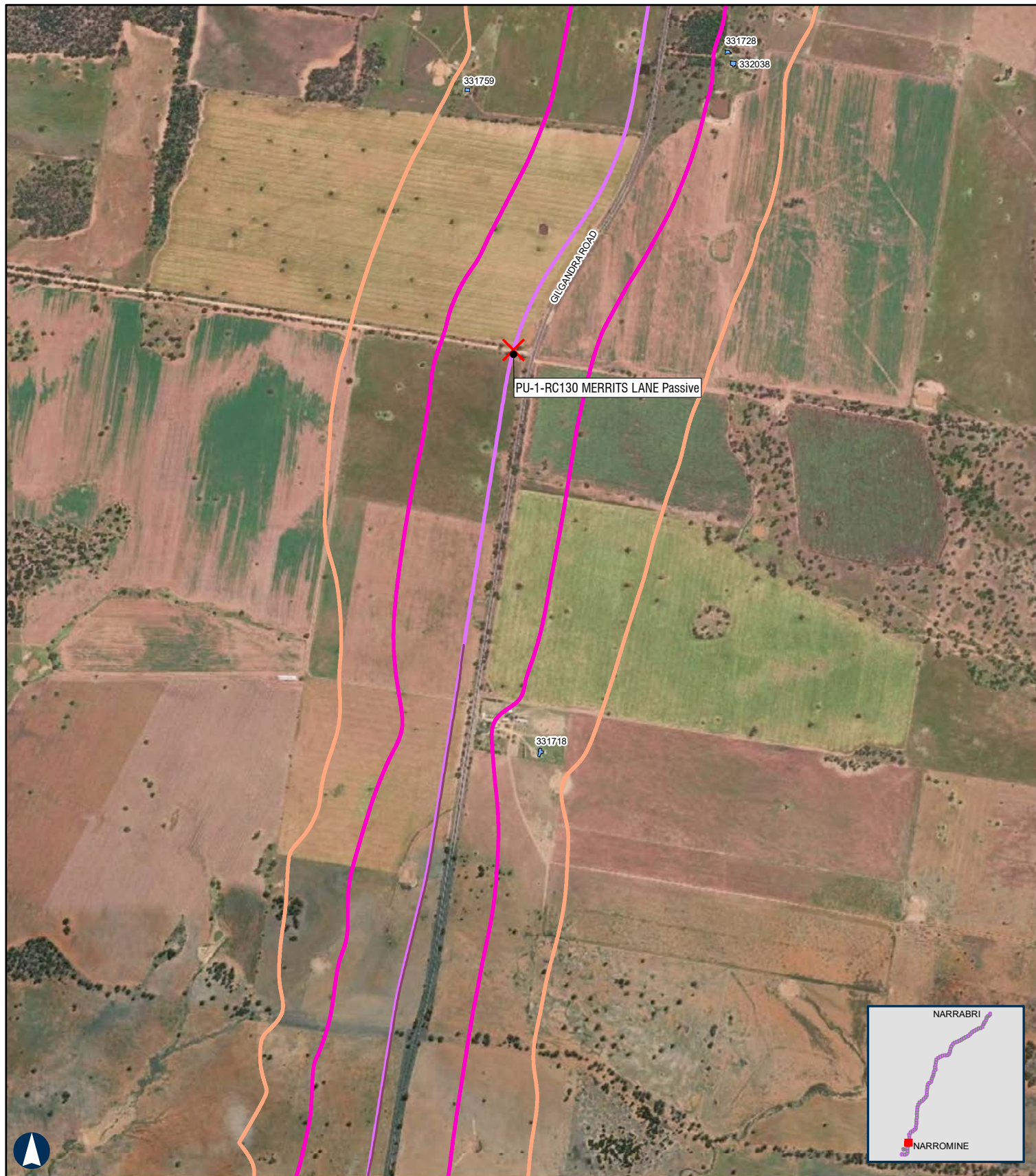
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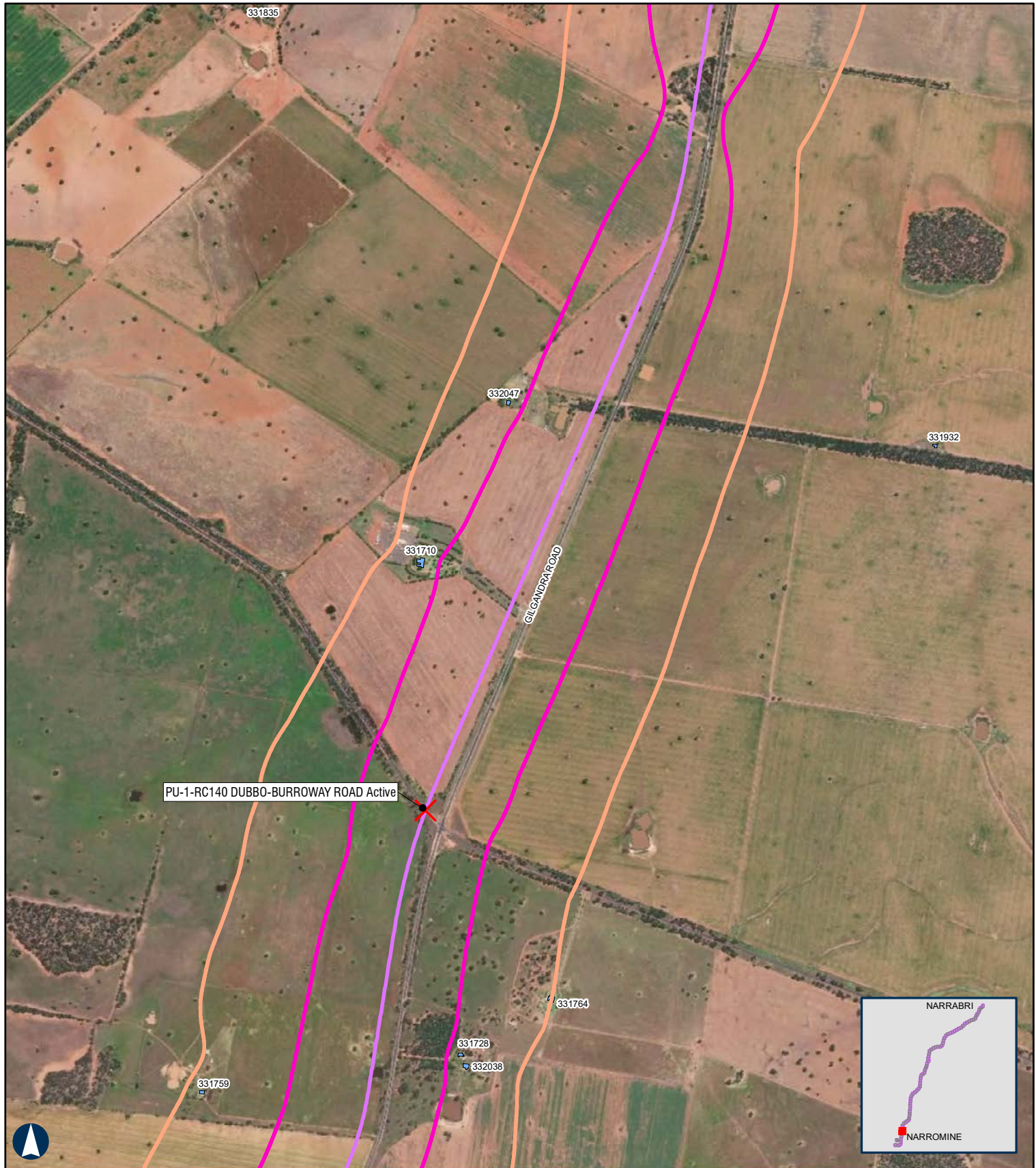
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ARTC **InlandRail**

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 95 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
Date: 01-Sep-2020
Author: JG

Scale: 1:20,000

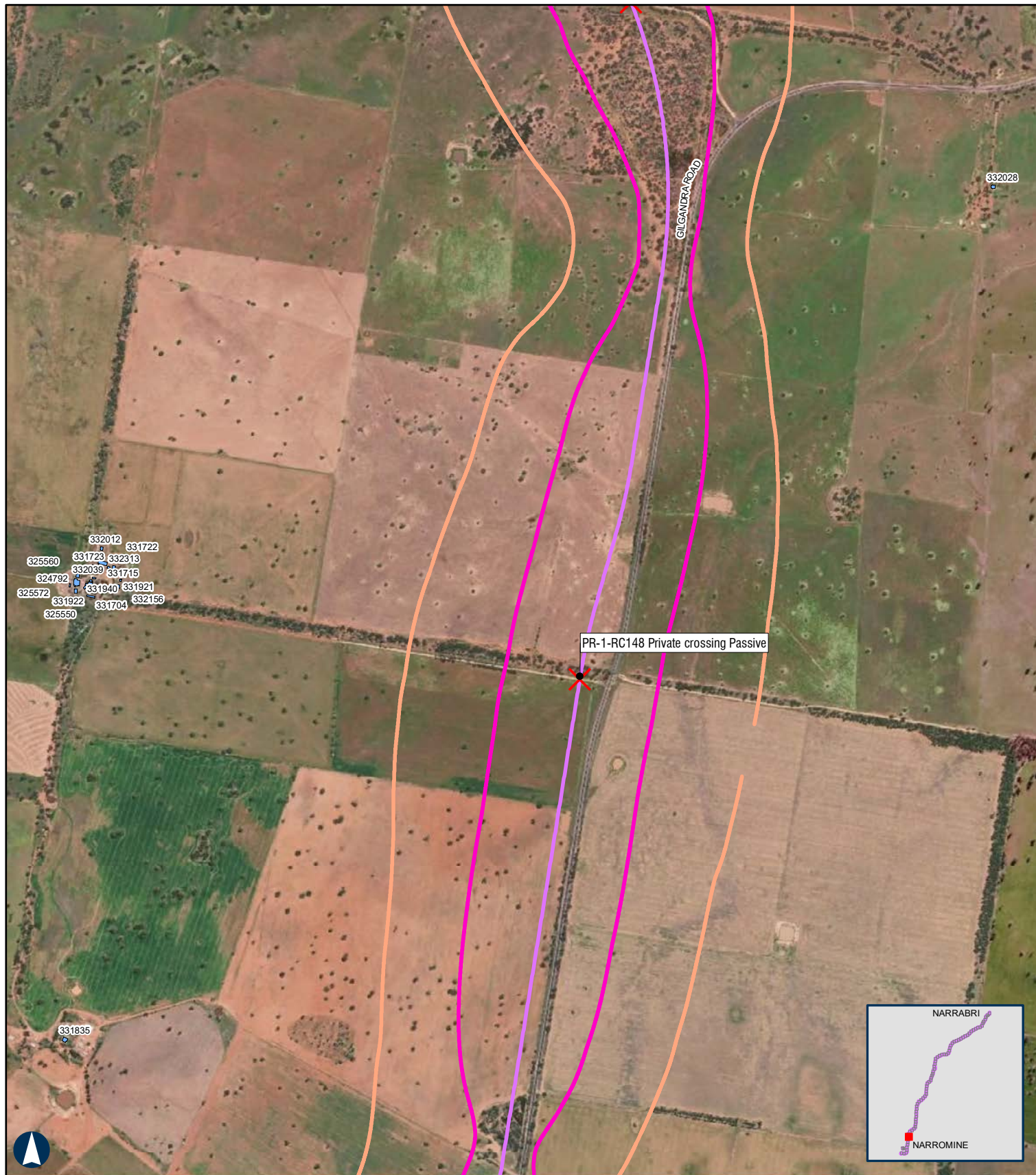
- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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- Noise Assessment Area – Upgrading Existing Railway

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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 96 of 168

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APPENDIX E - Map 97 of 168

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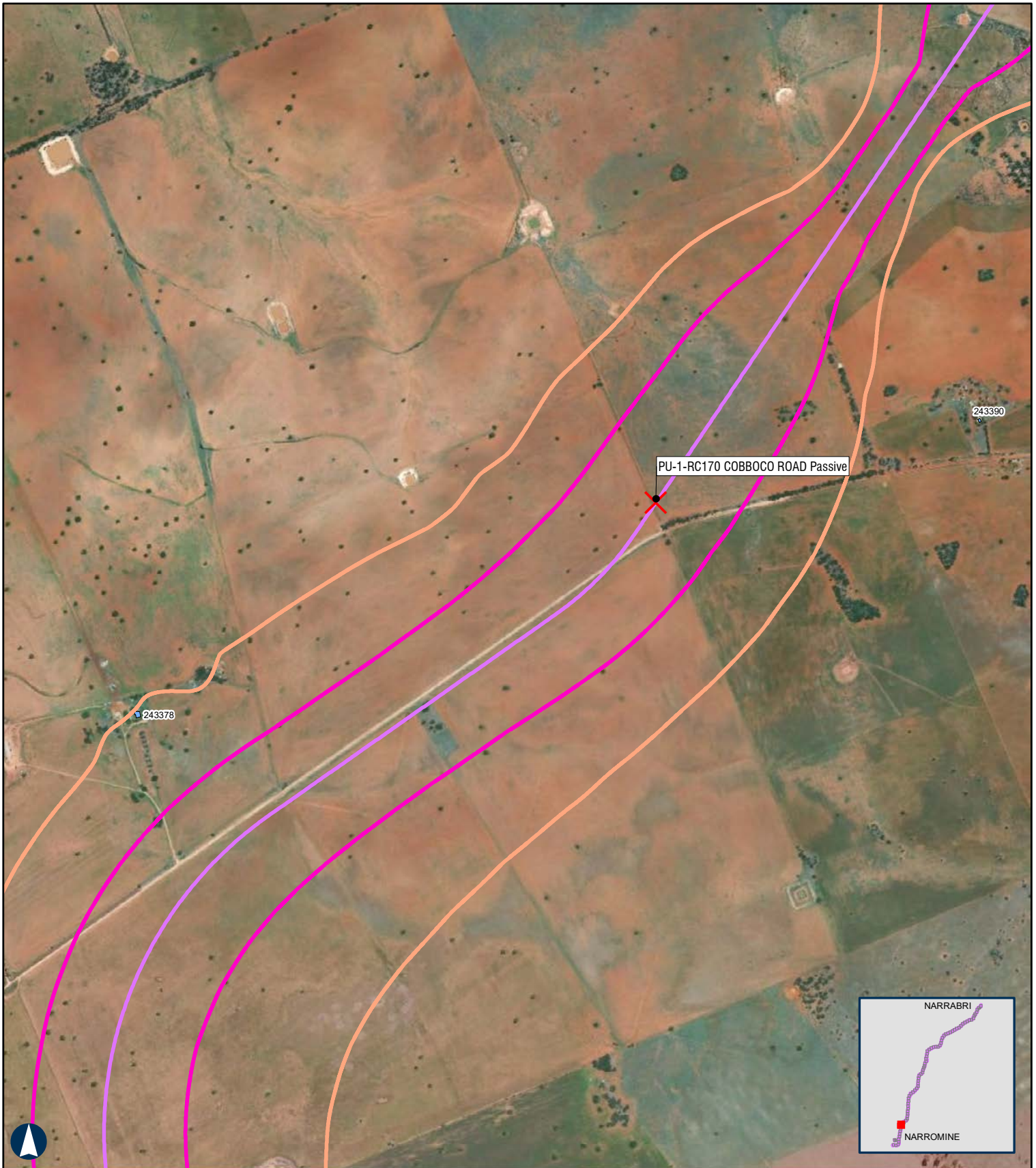
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 98 of 168

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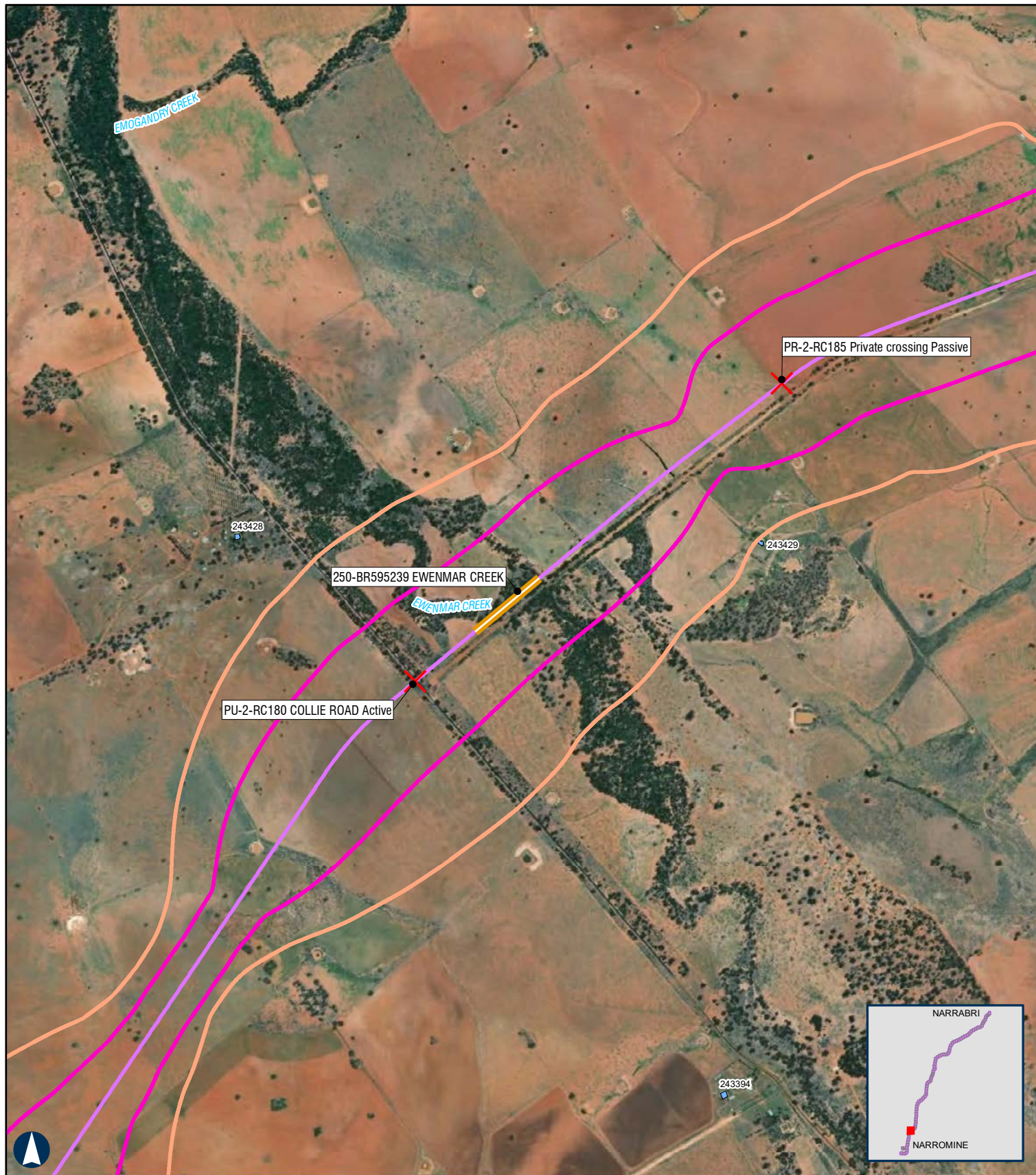
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 99 of 168

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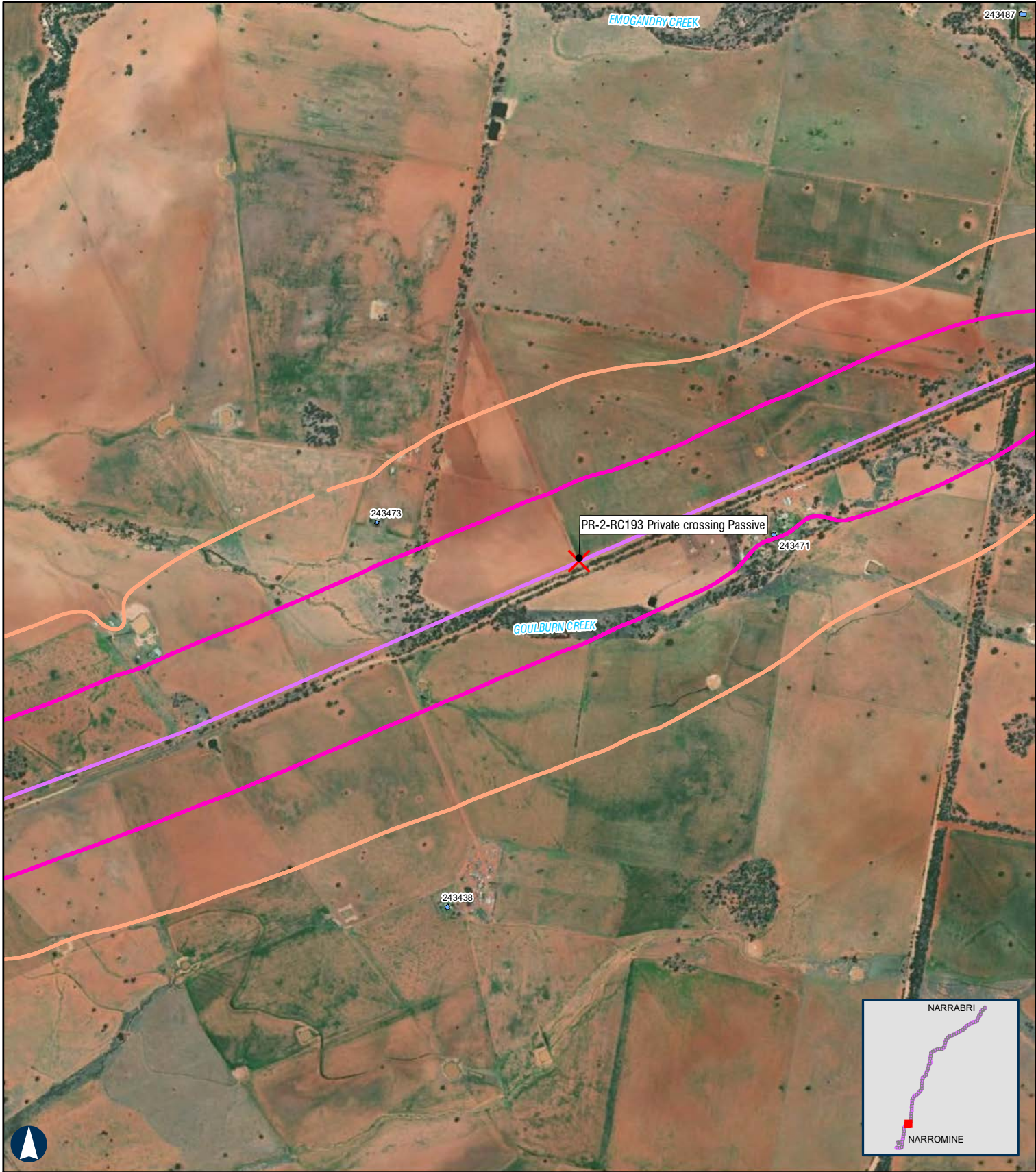
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 100 of 168

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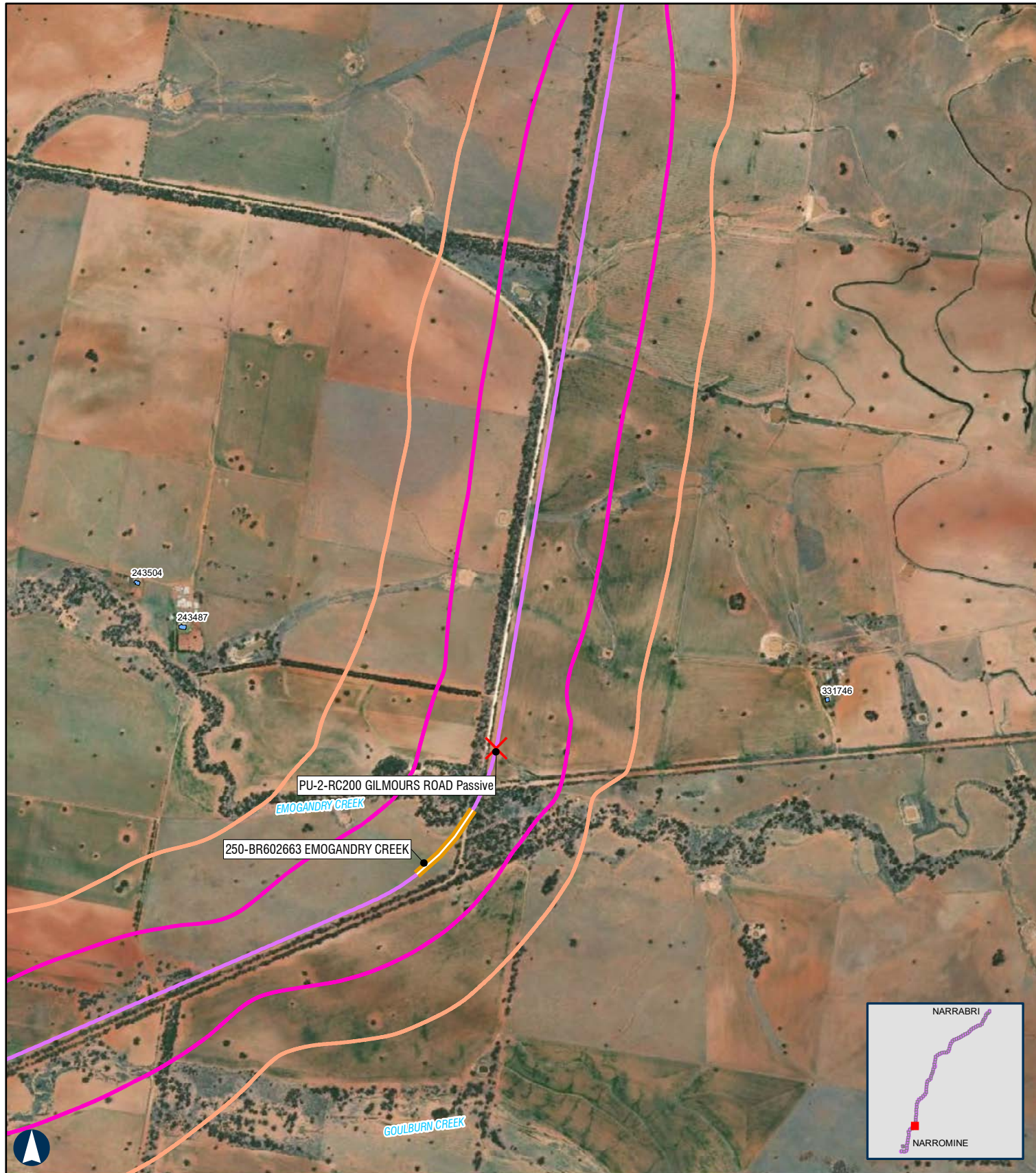
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 101 of 168

500 m

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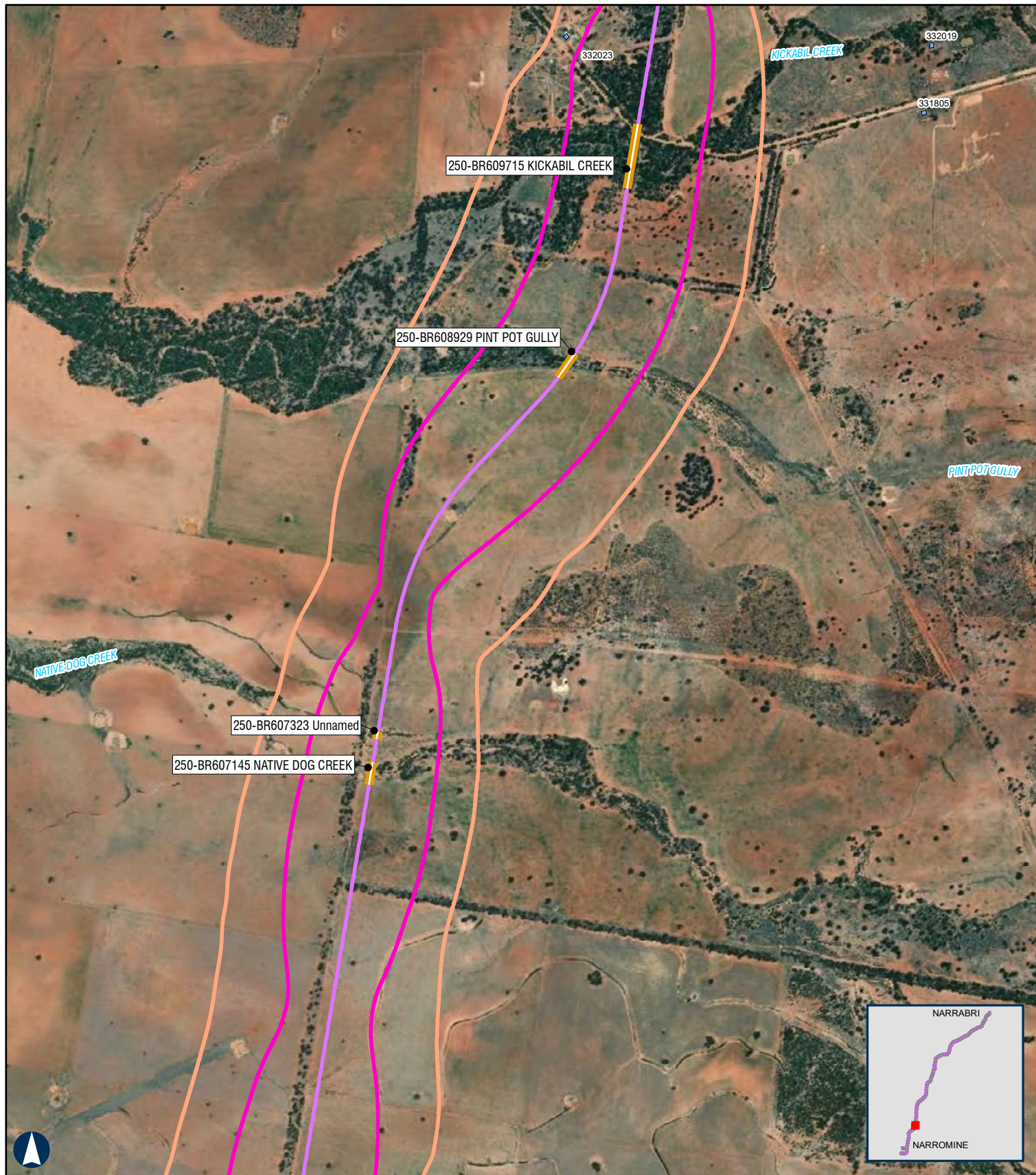
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 102 of 168

500 m

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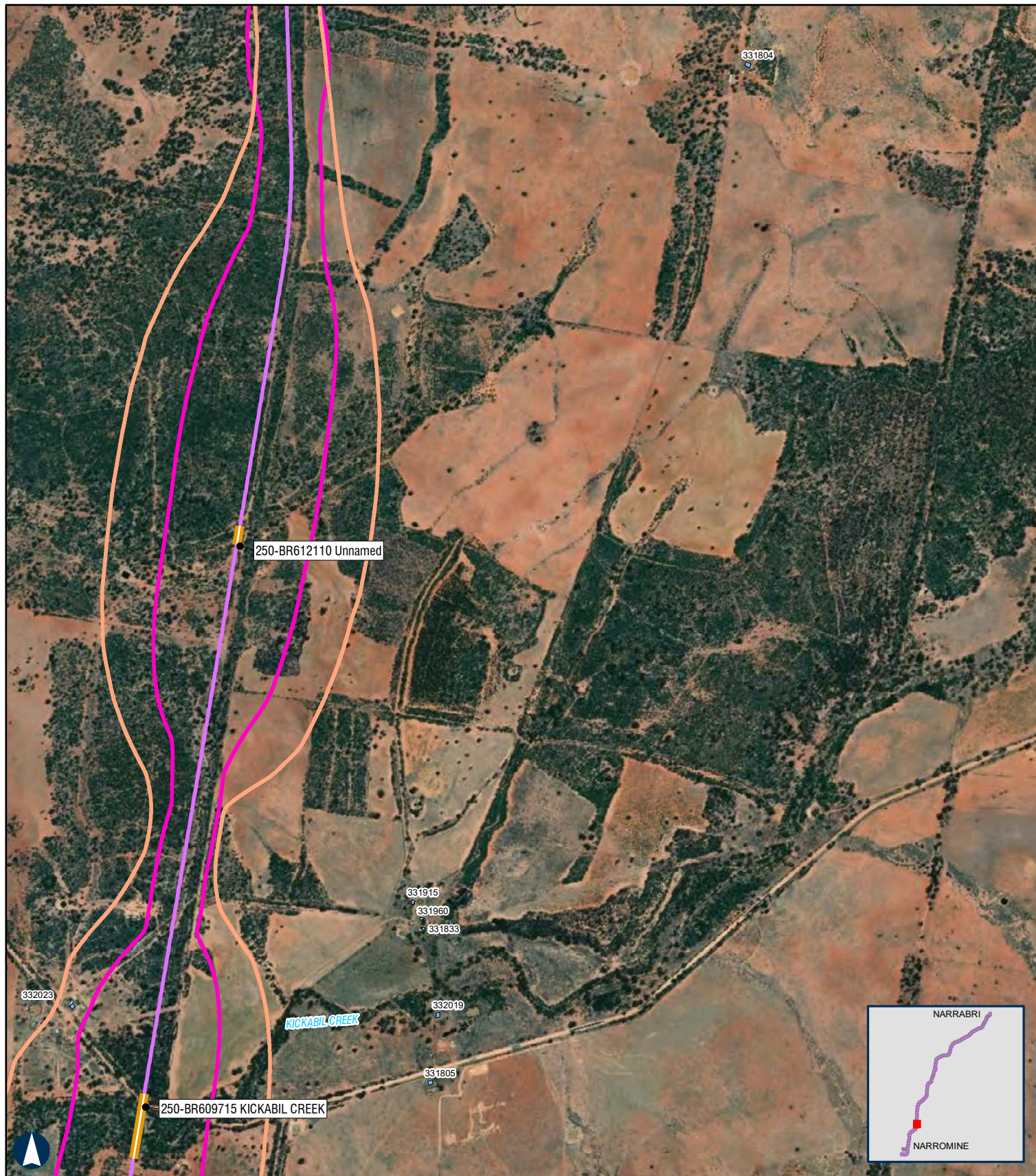
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 103 of 168

500 m

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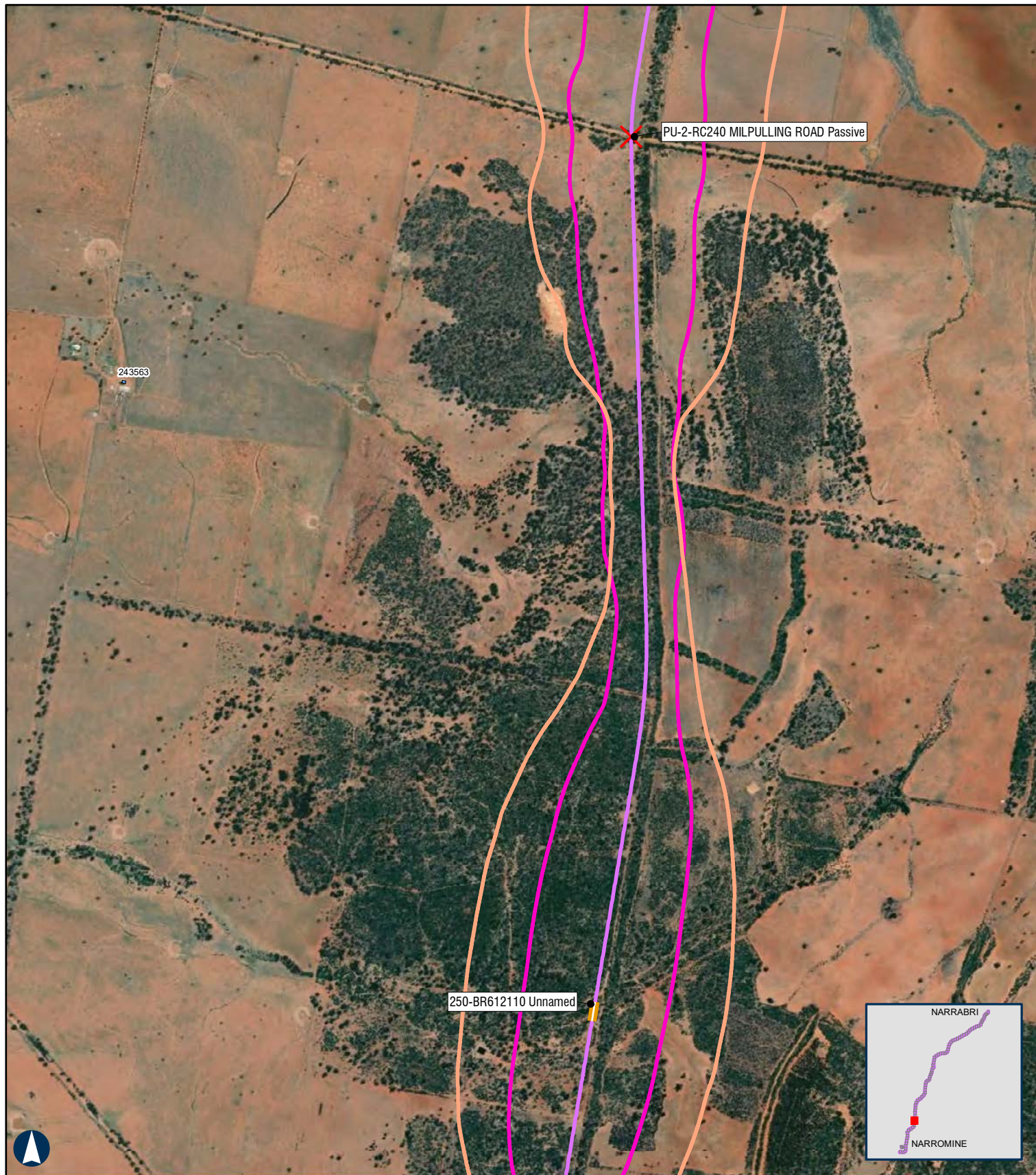
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 104 of 168

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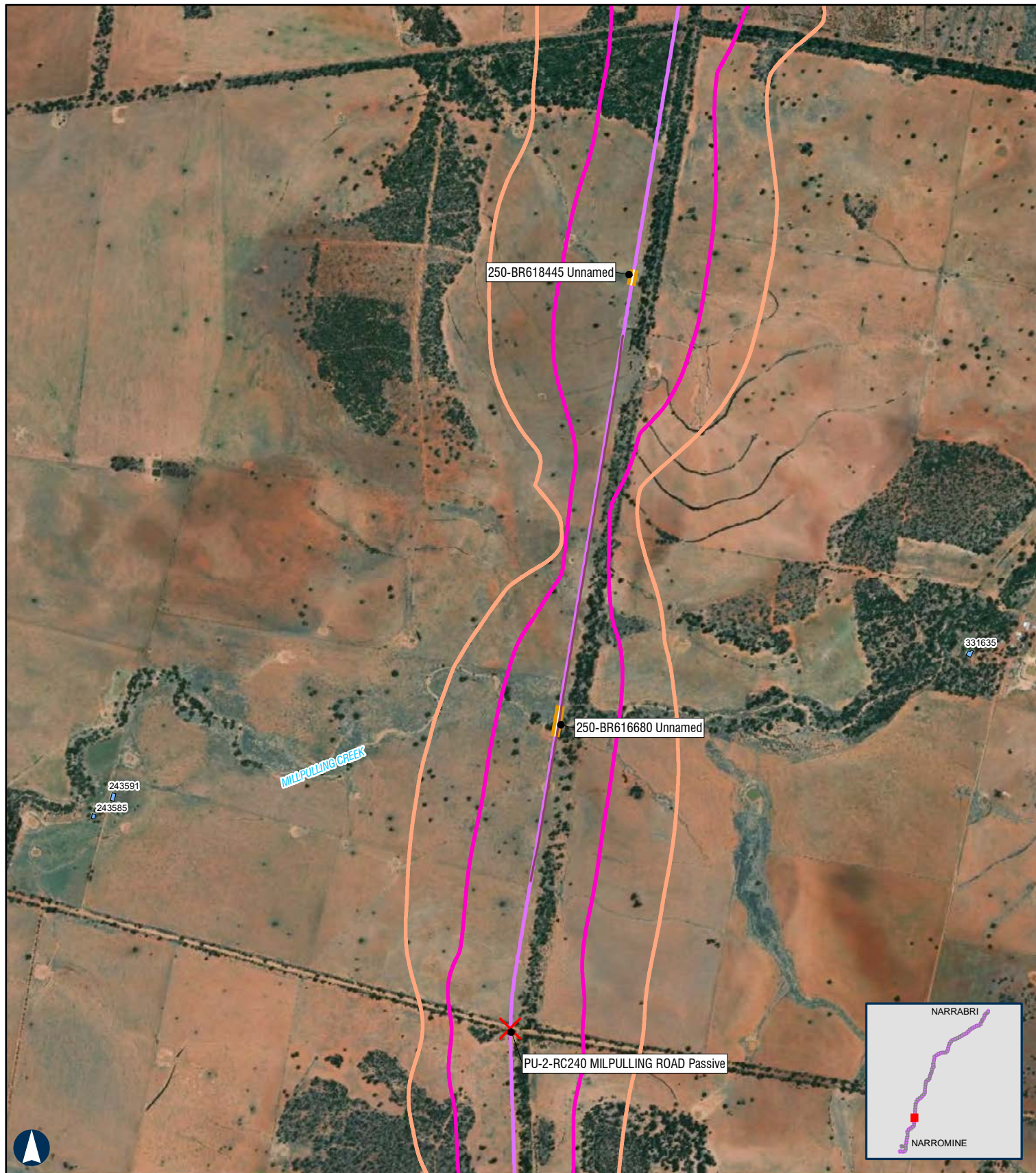
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 105 of 168

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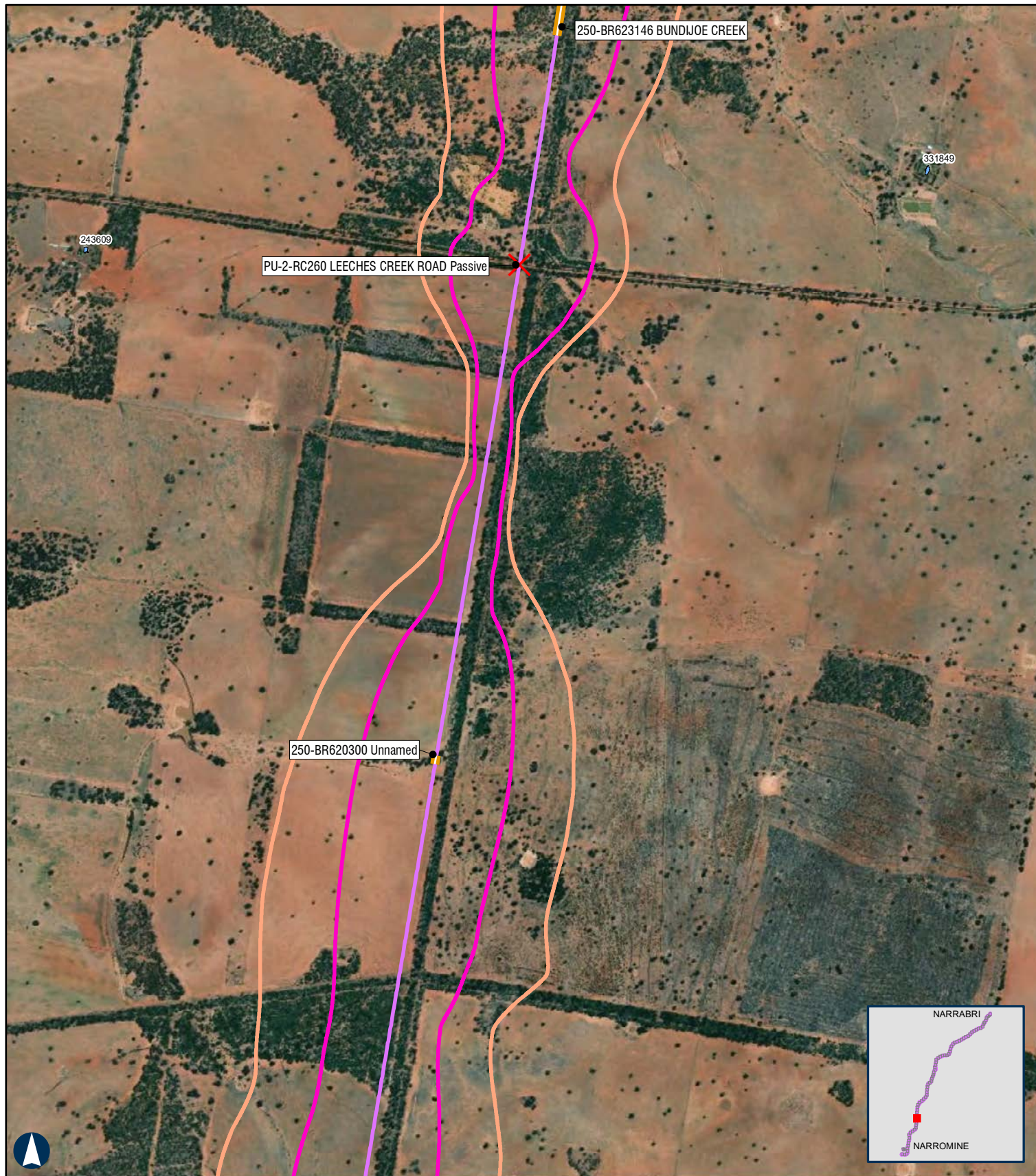
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 106 of 168

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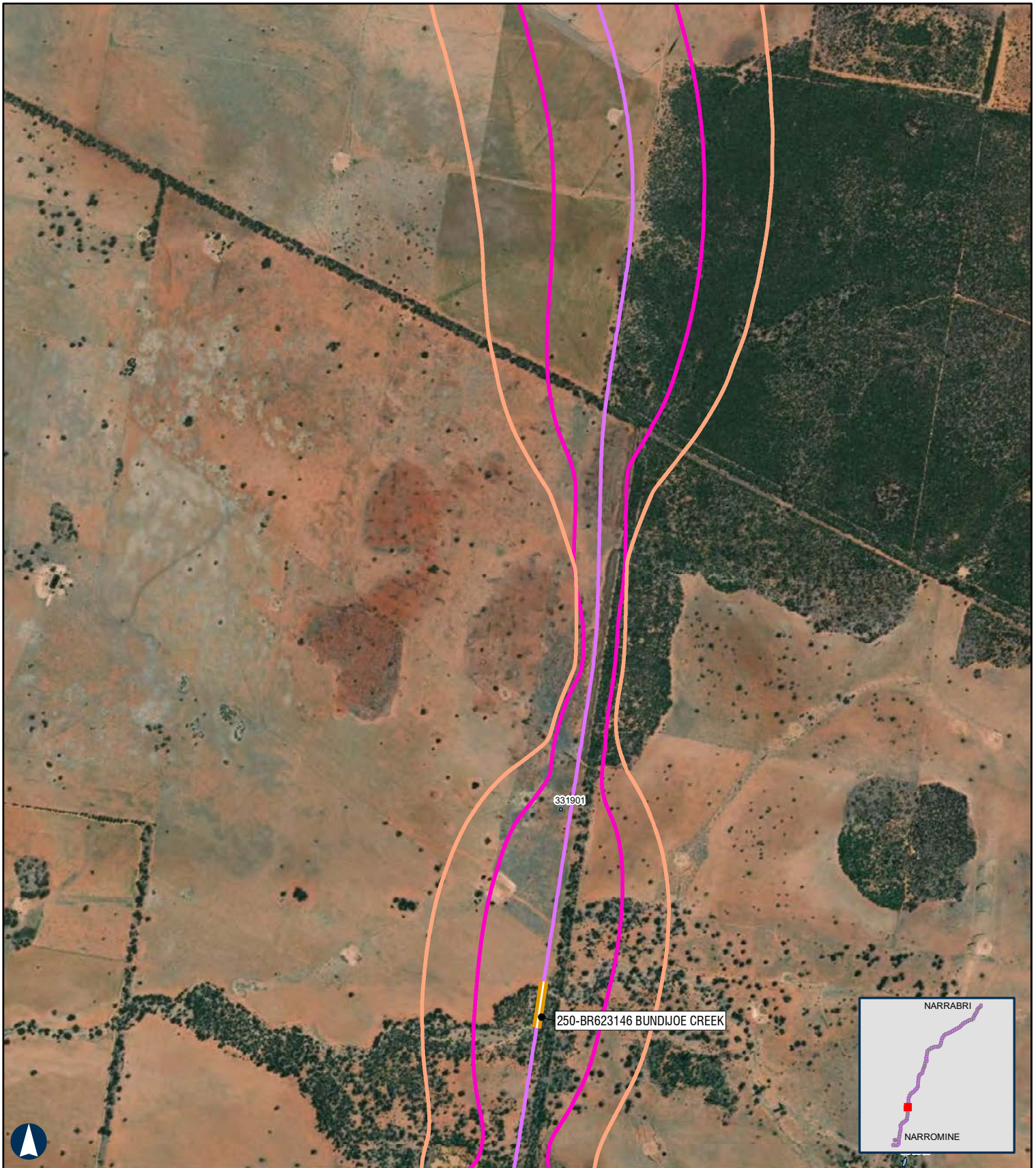
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APPENDIX E - Map 107 of 168

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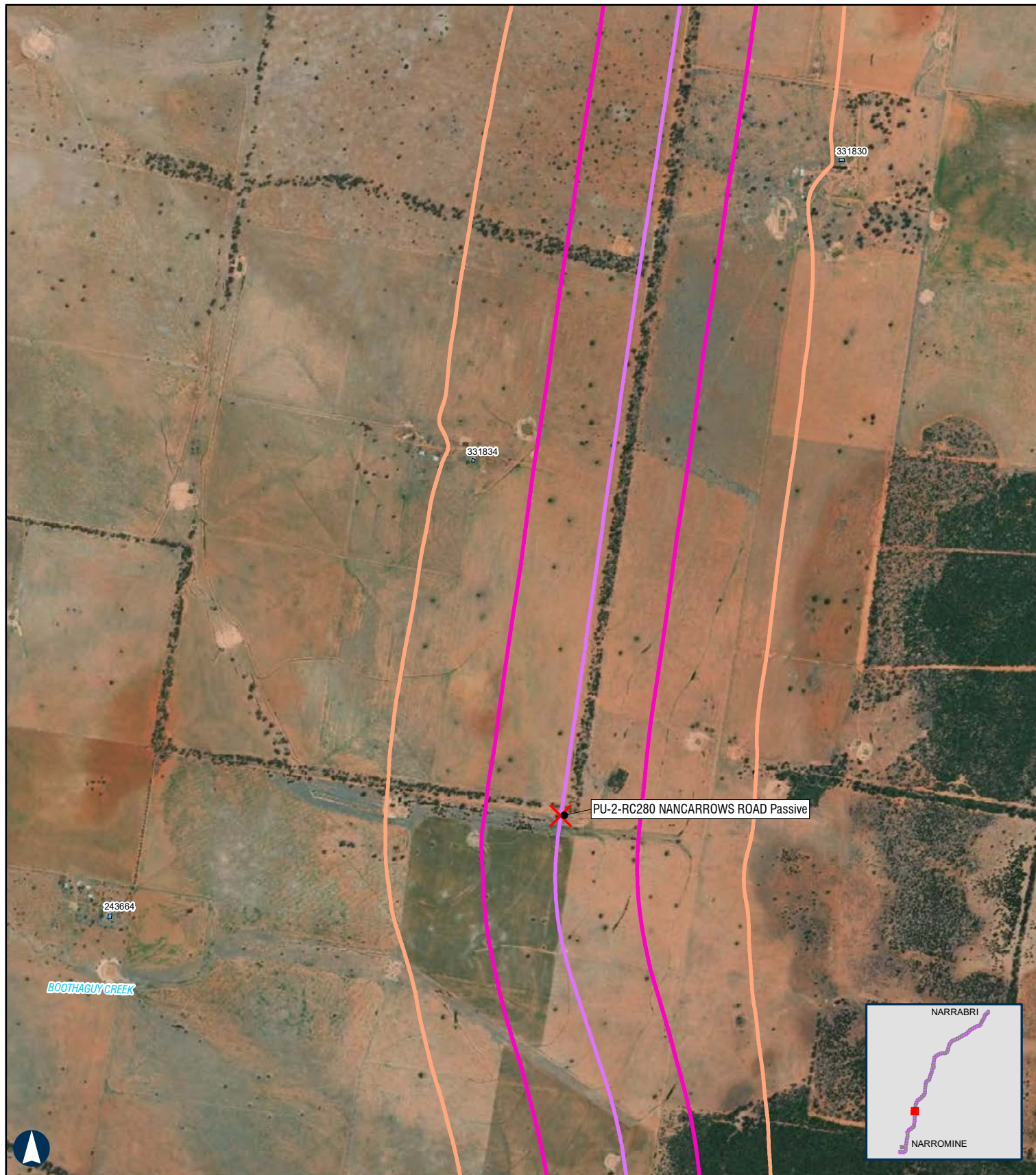
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Year 2040 Night-time Rail Noise Levels

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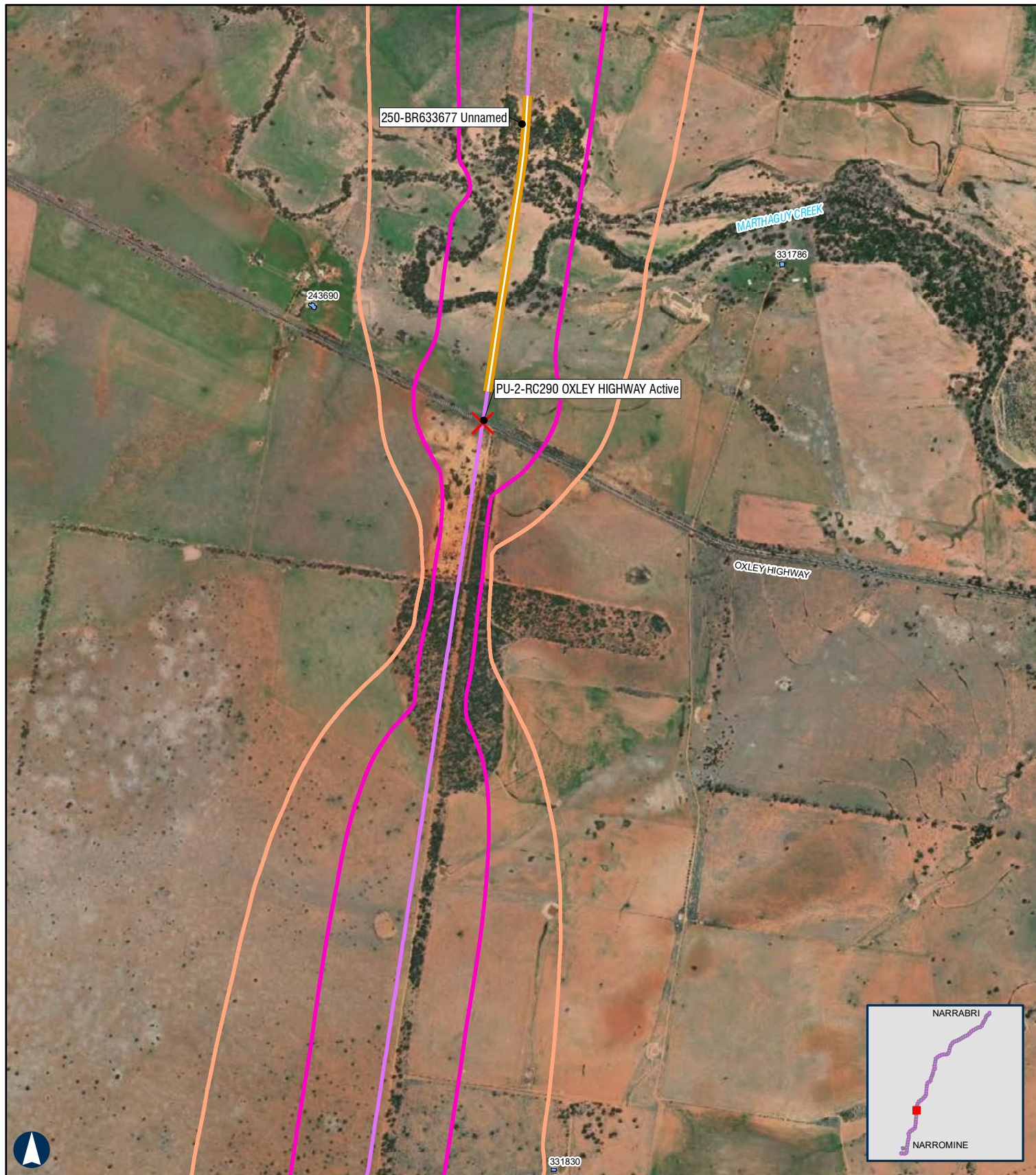
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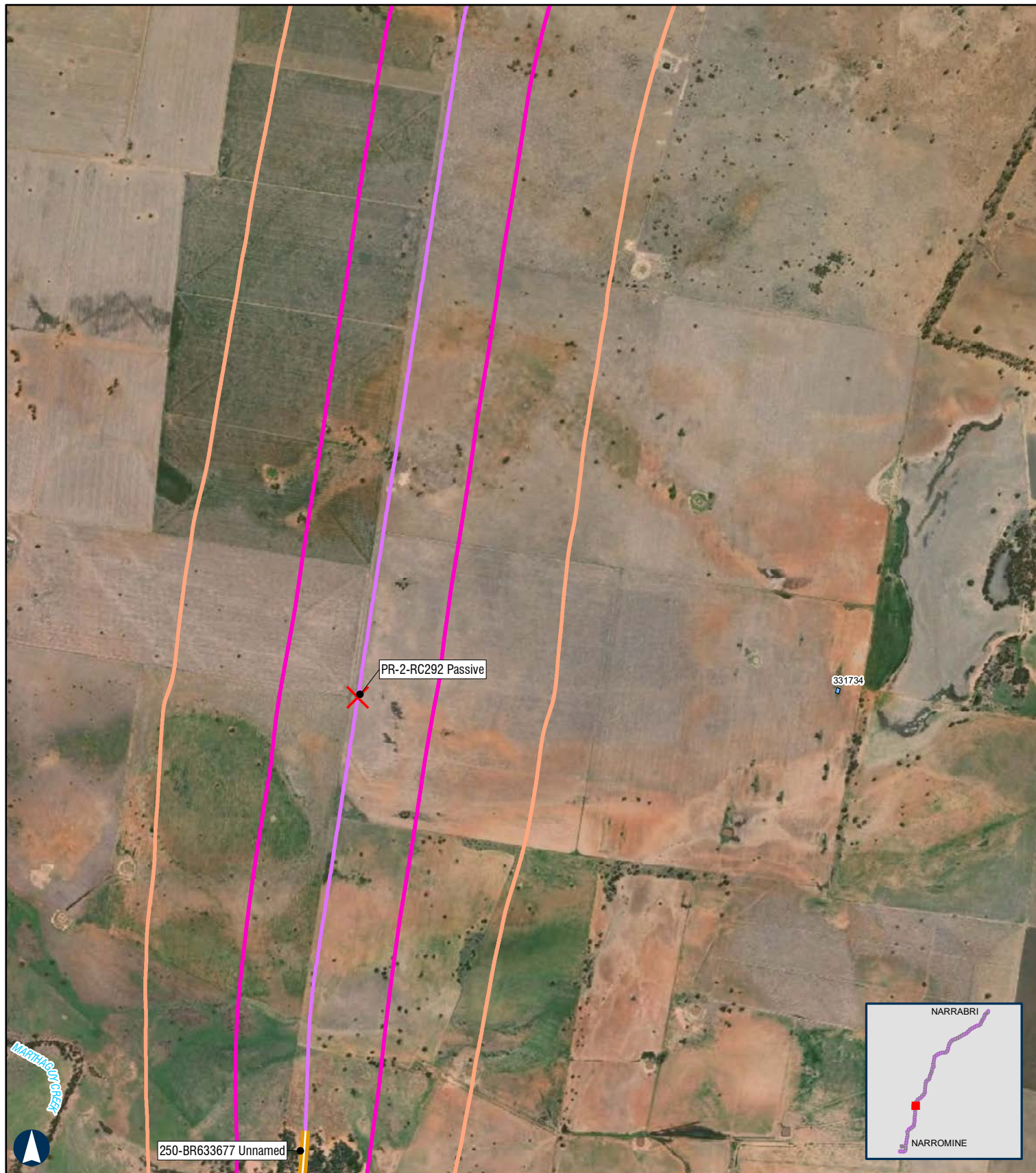
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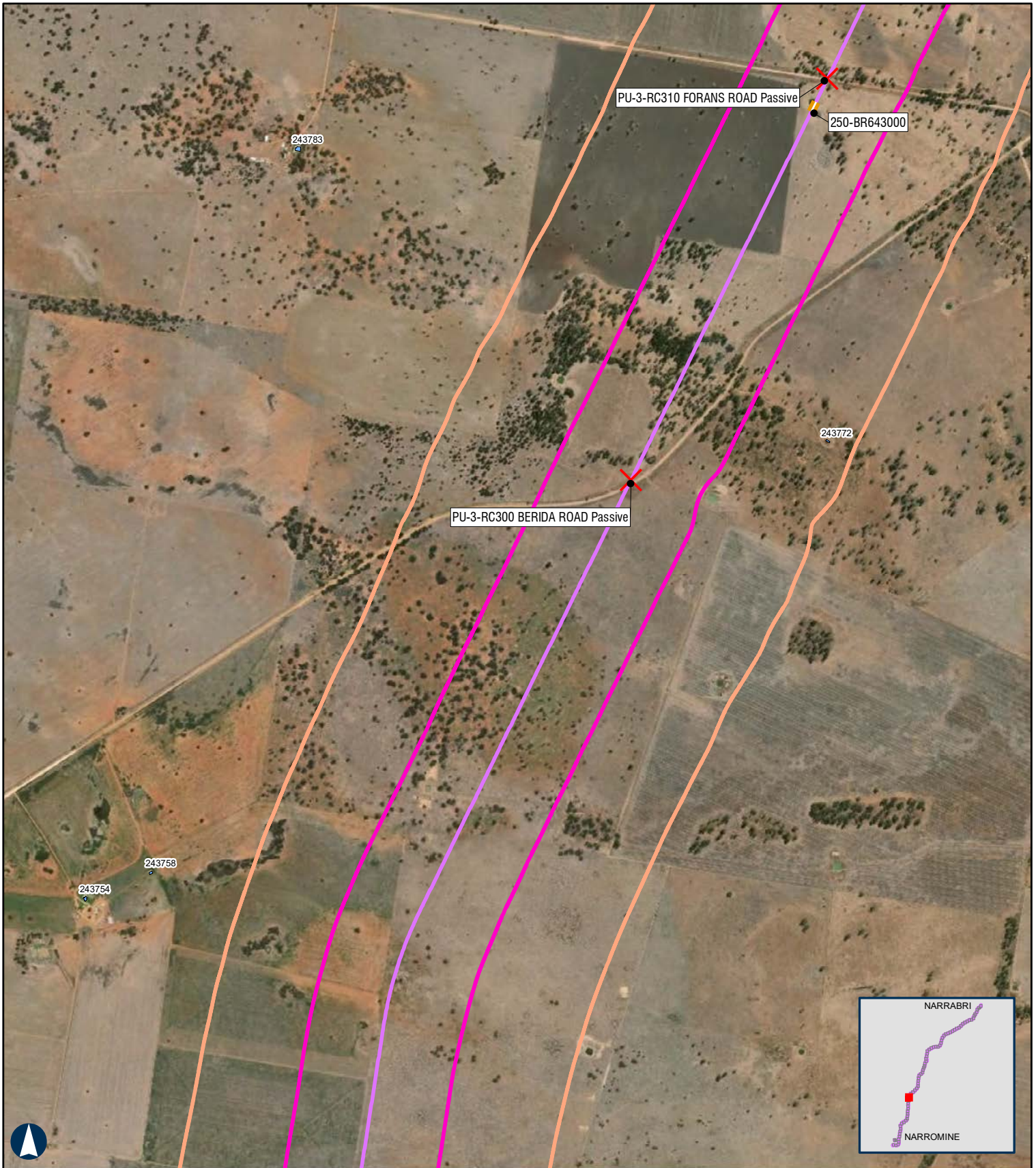
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Year 2040 Night-time Rail Noise Levels

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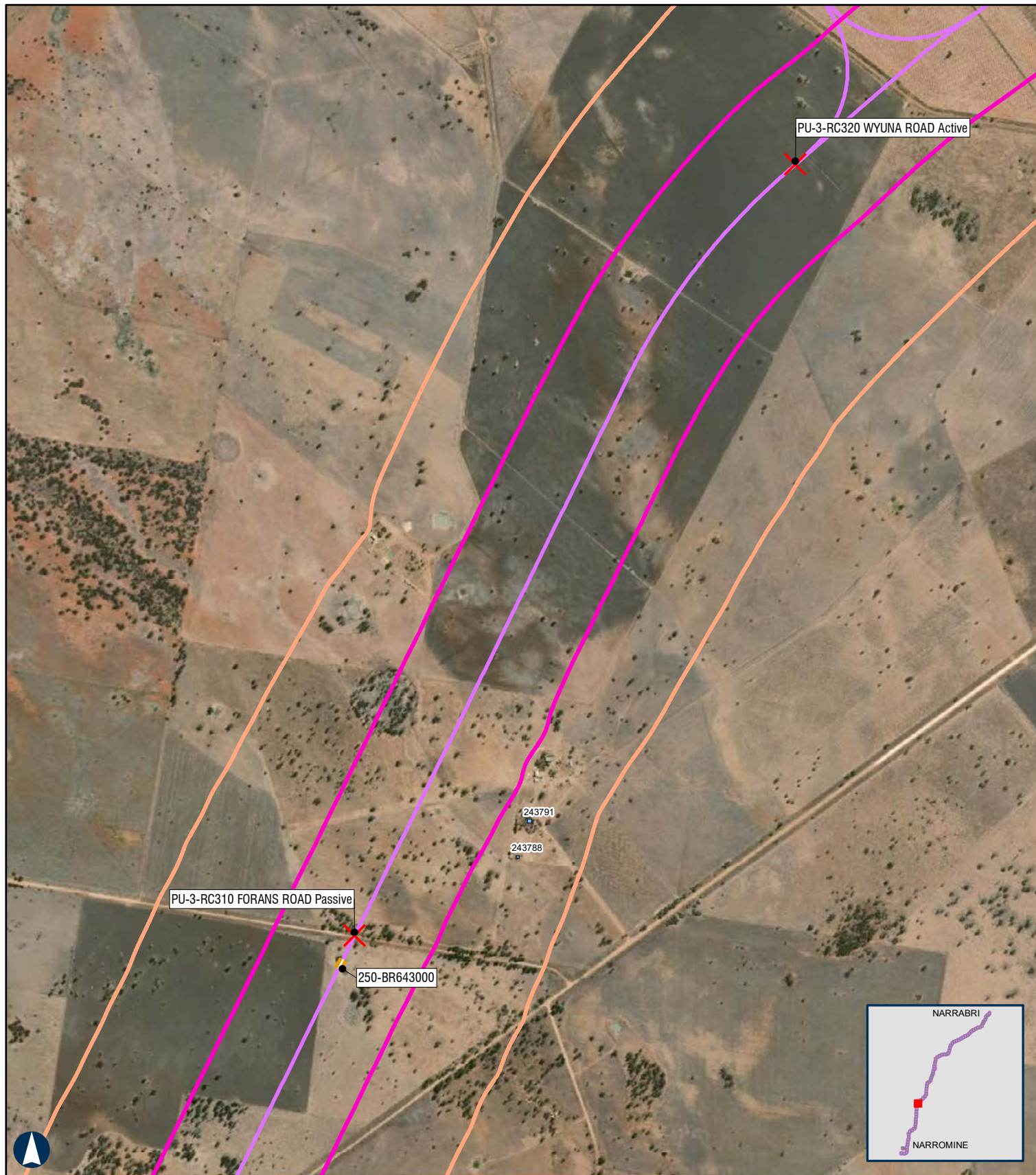
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 112 of 168

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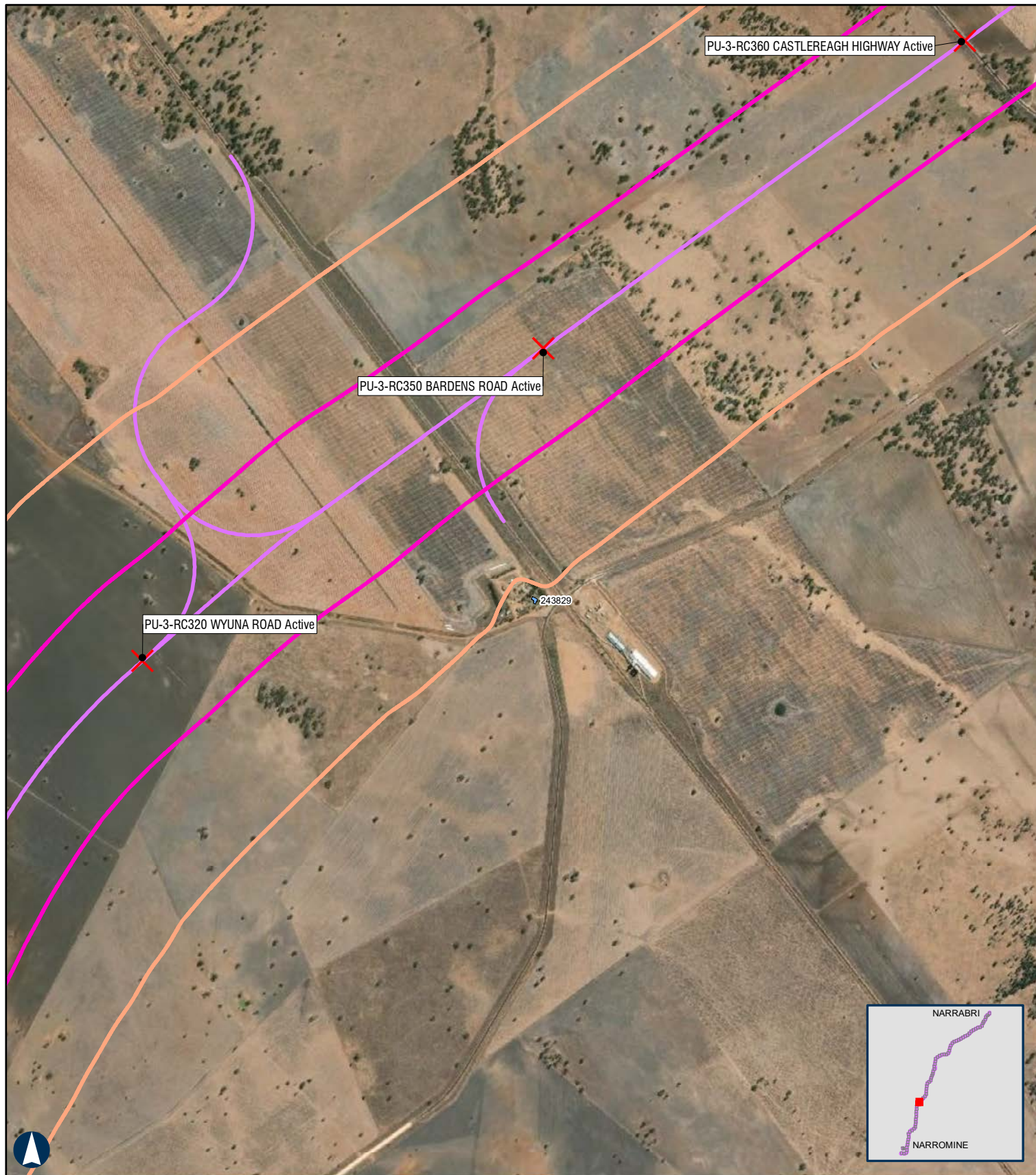
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Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
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ARTC **InlandRail**

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 113 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
Date: 01-Sep-2020
Author: JG

Scale: 1:20,000

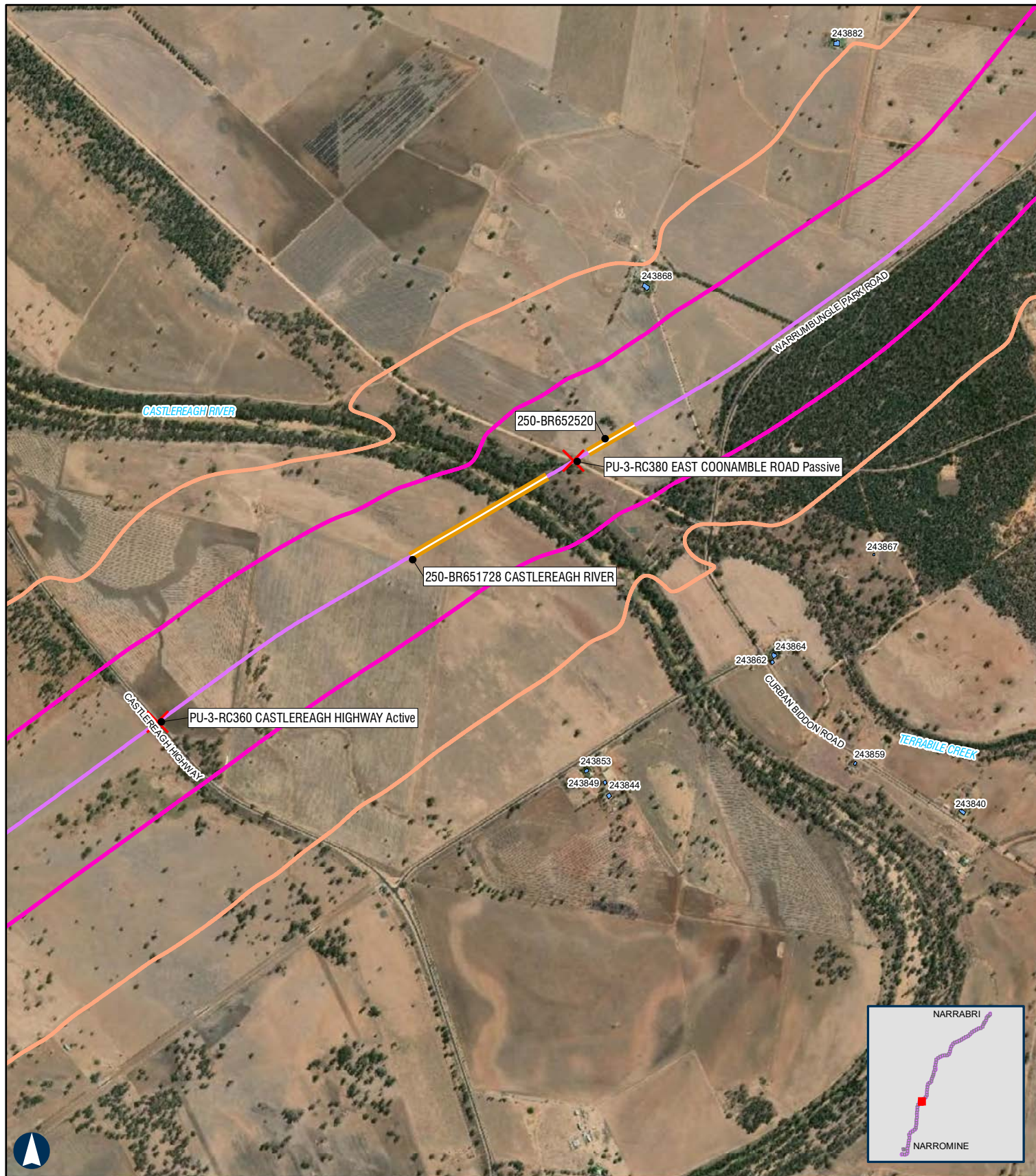
- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 114 of 168

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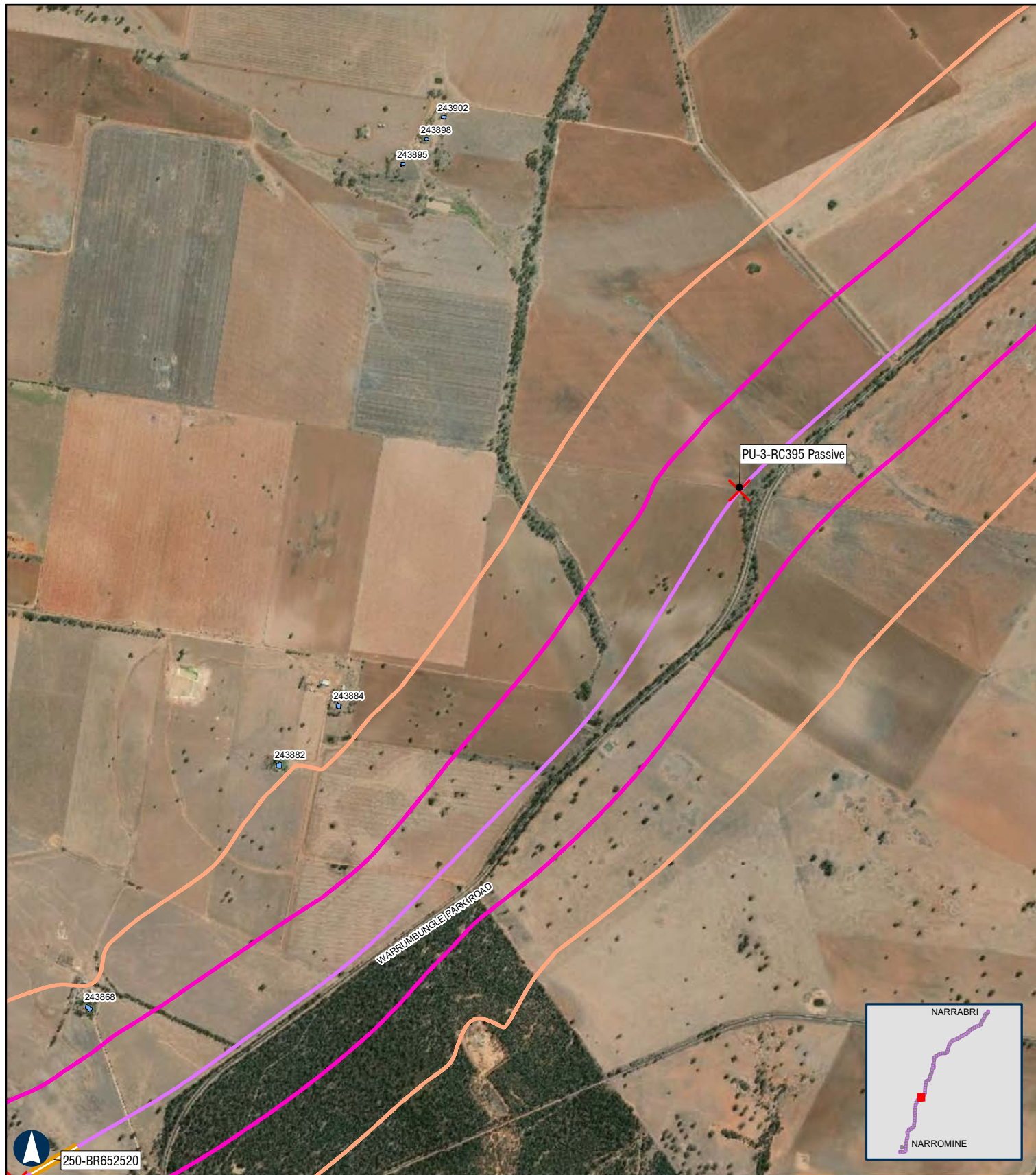
- ✕ Level Crossings
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 115 of 168

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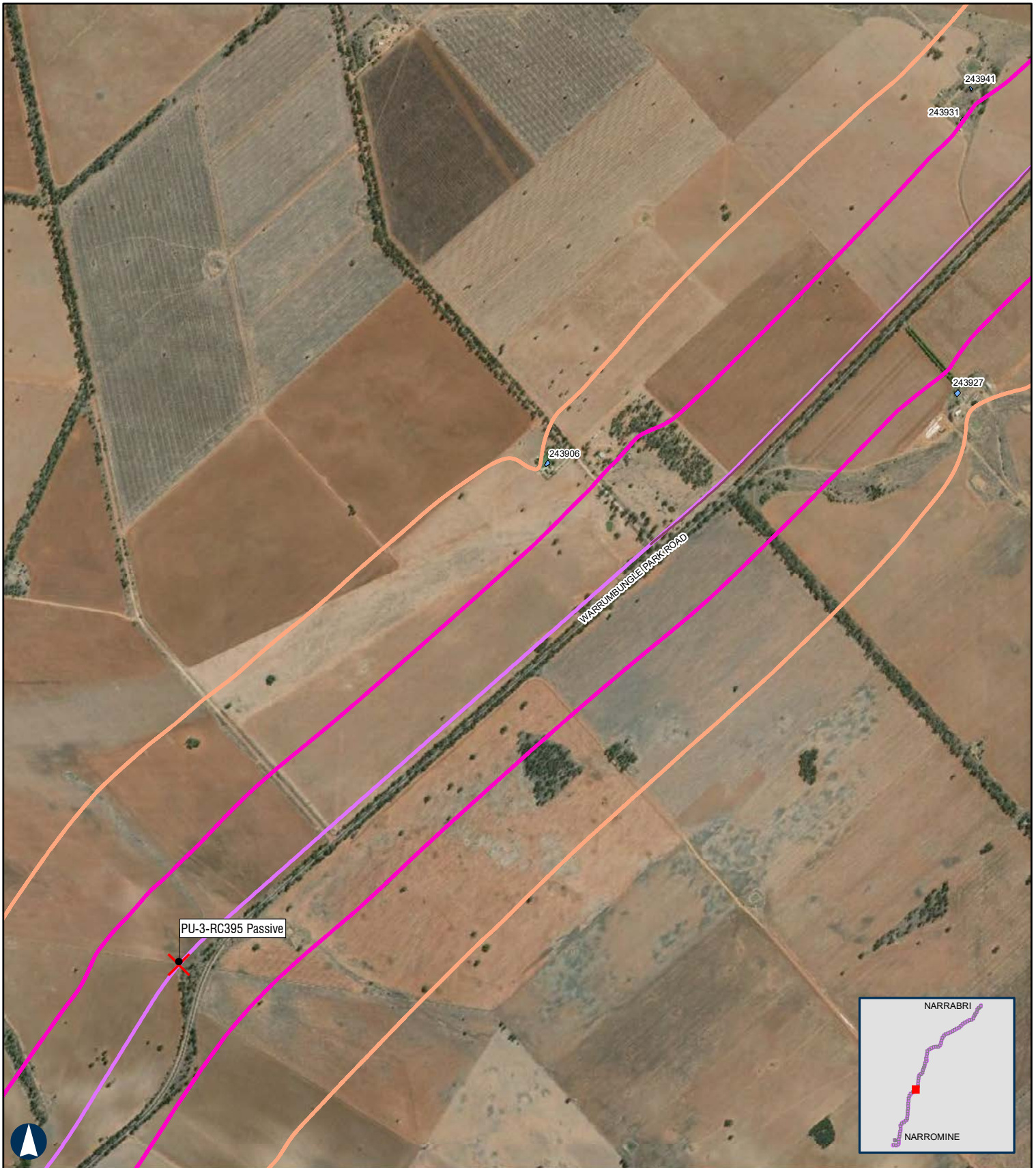
- X Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 116 of 168

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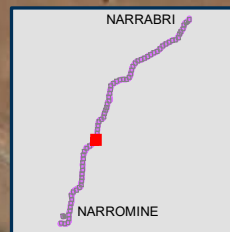
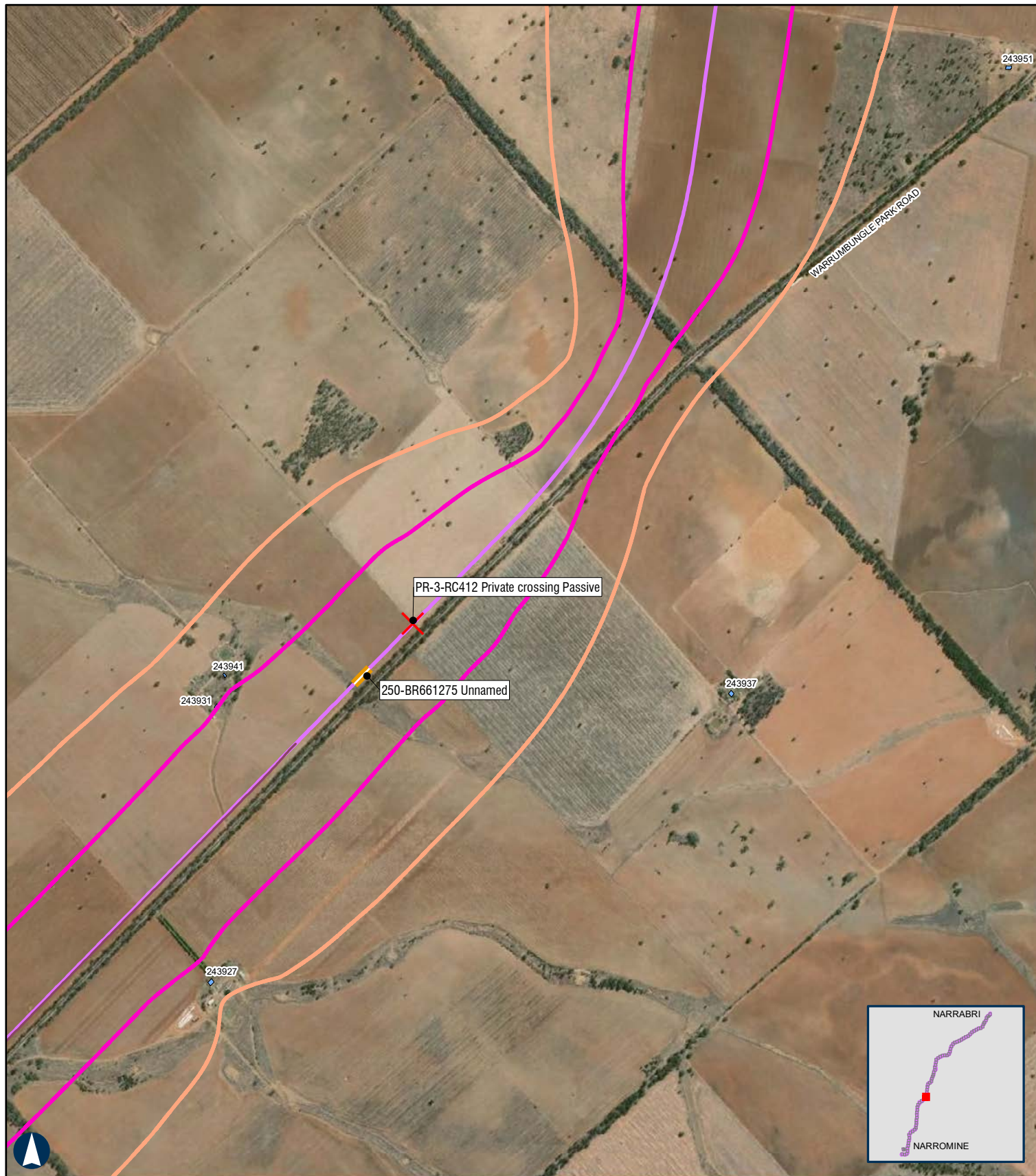
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 117 of 168

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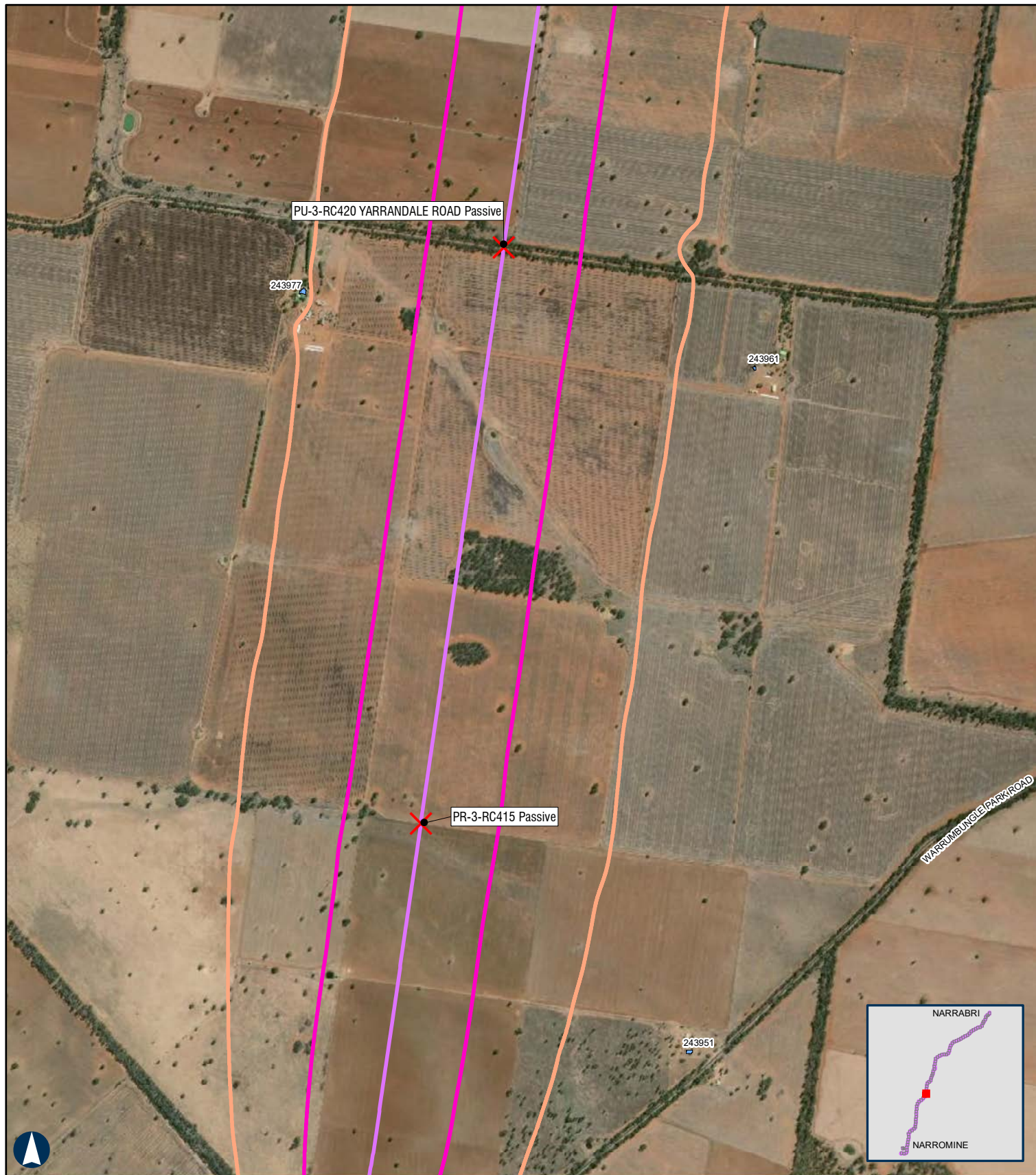
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 118 of 168

500 m

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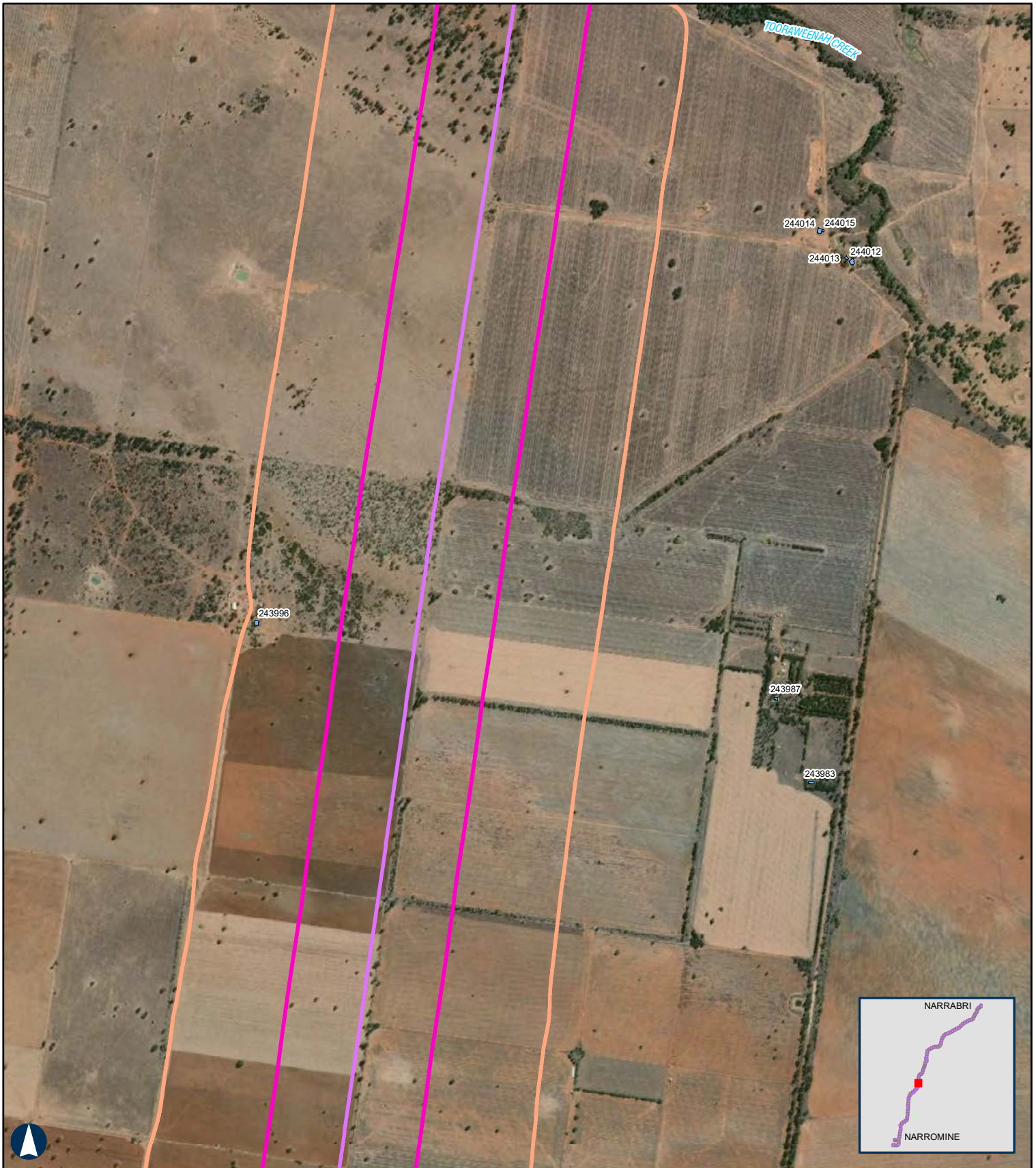
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 119 of 168

500 m

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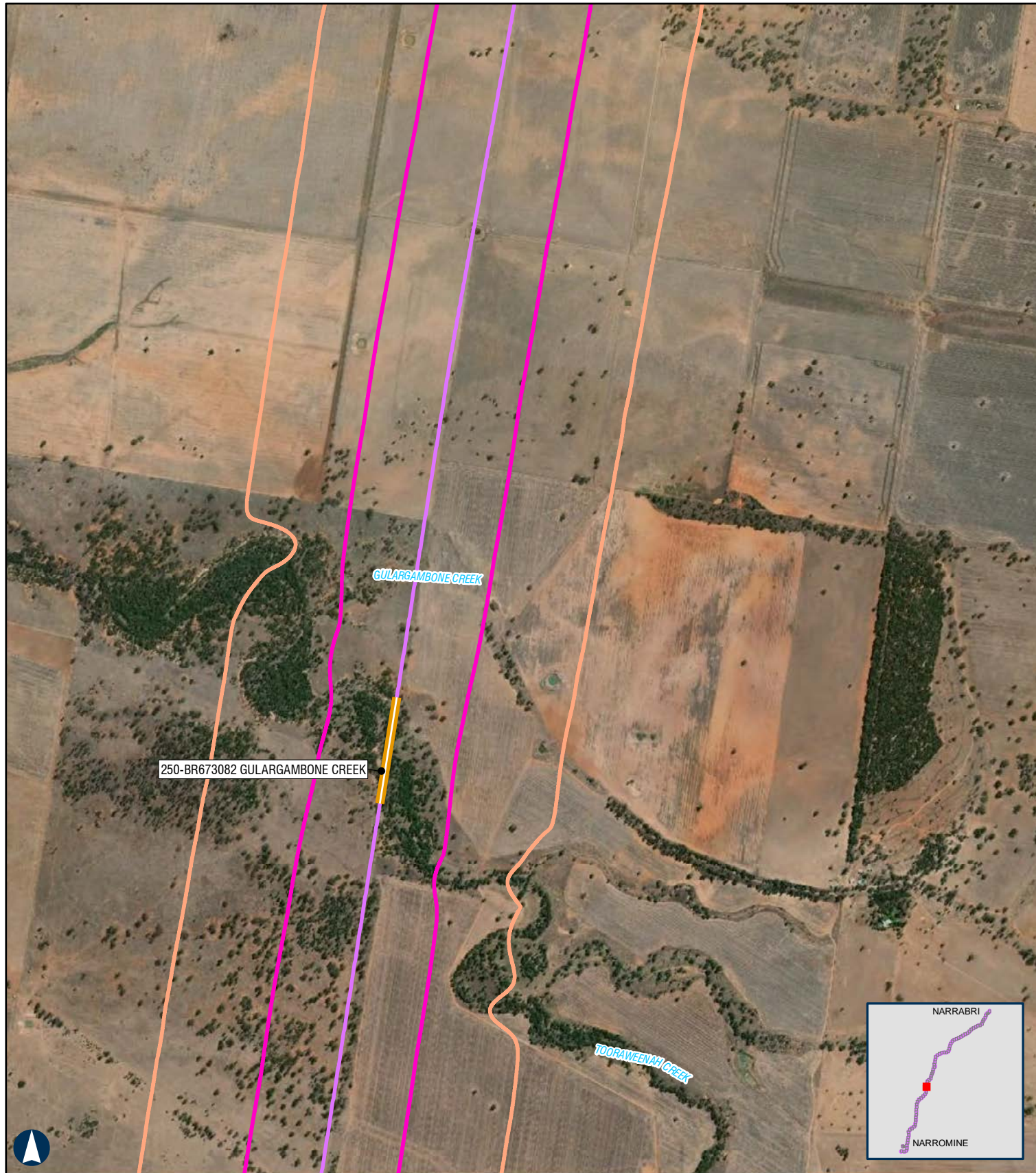
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 120 of 168

500 m

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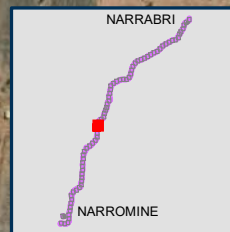
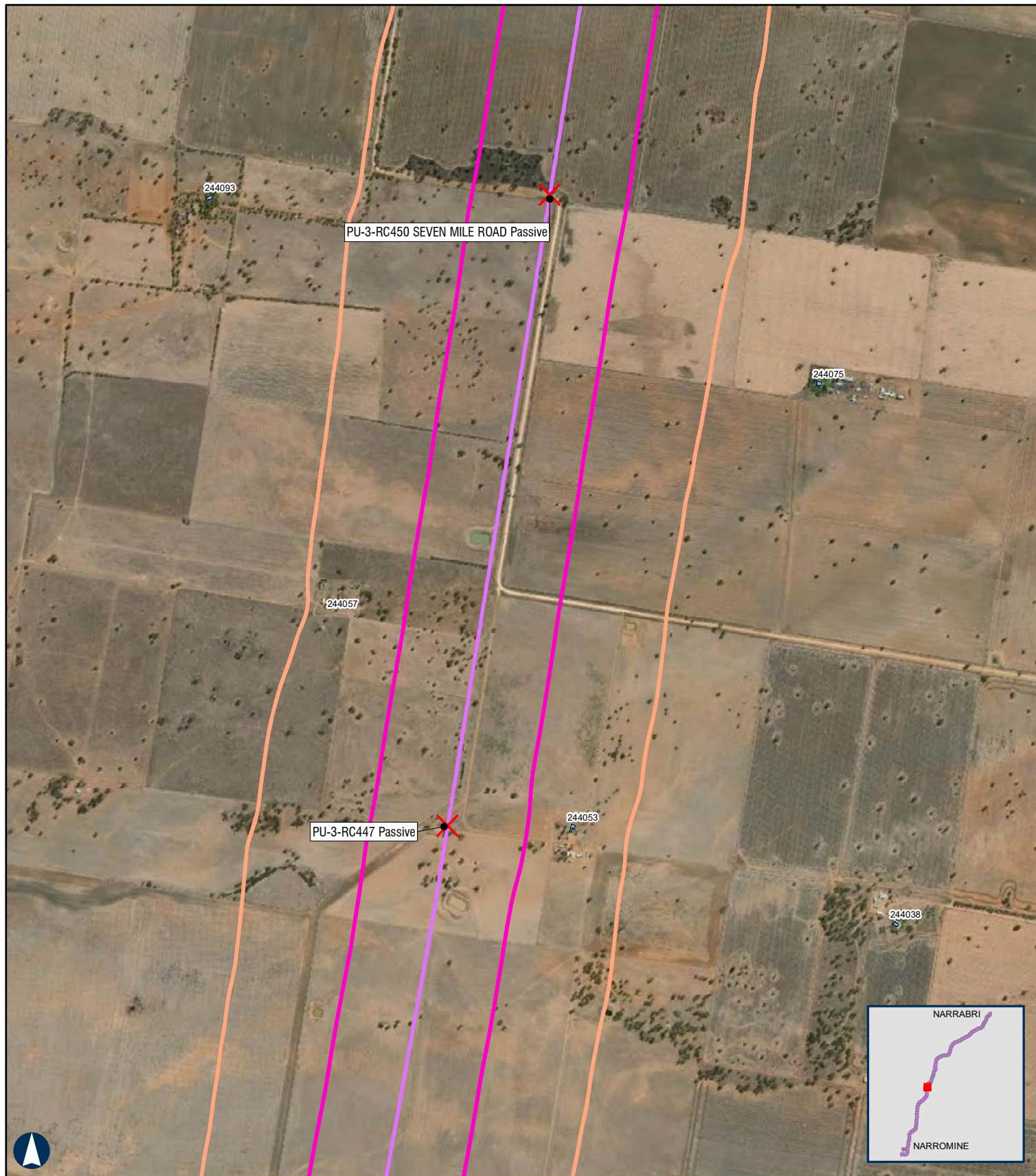
- Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 121 of 168

500 m

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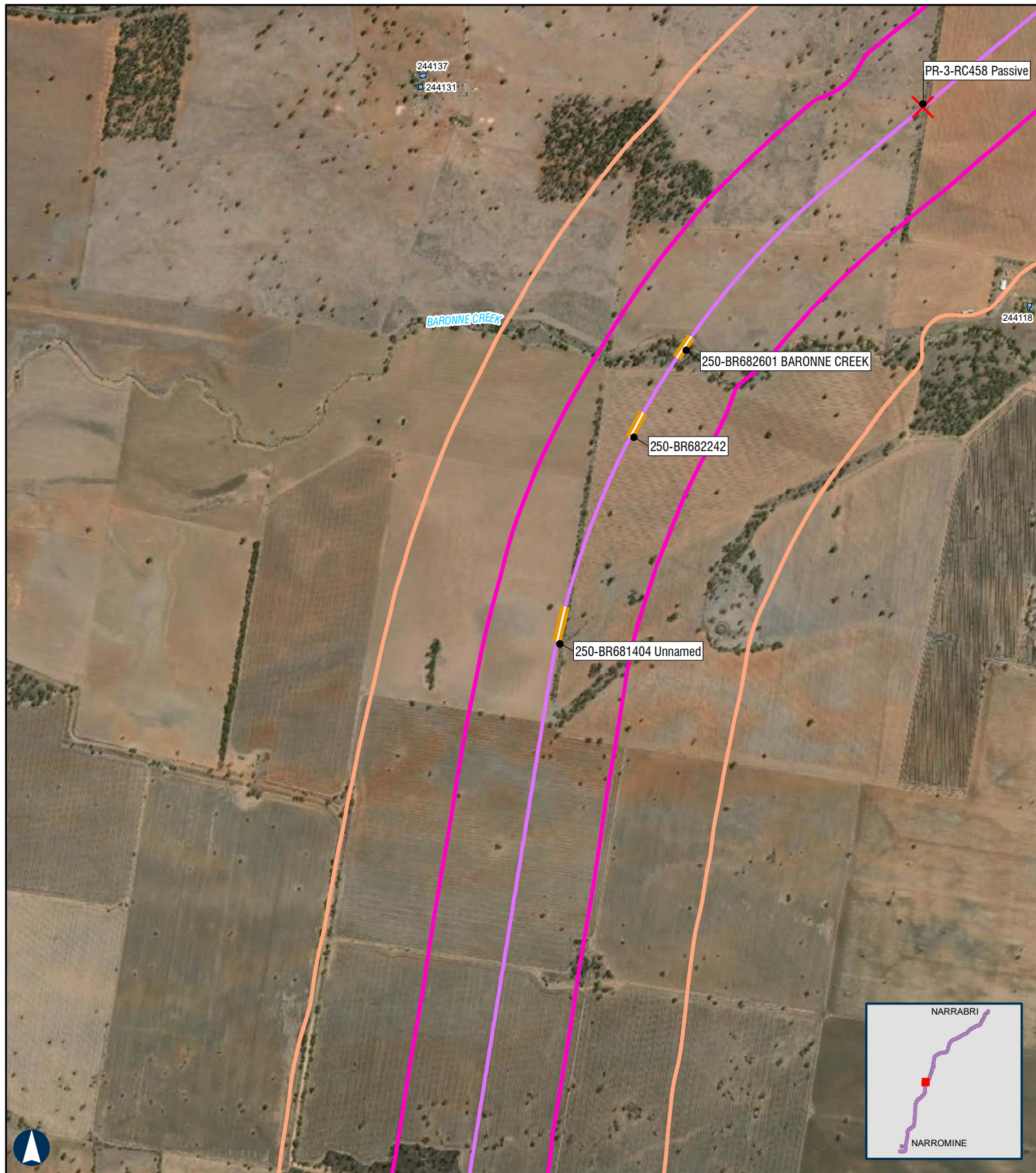
- Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 122 of 168

500 m

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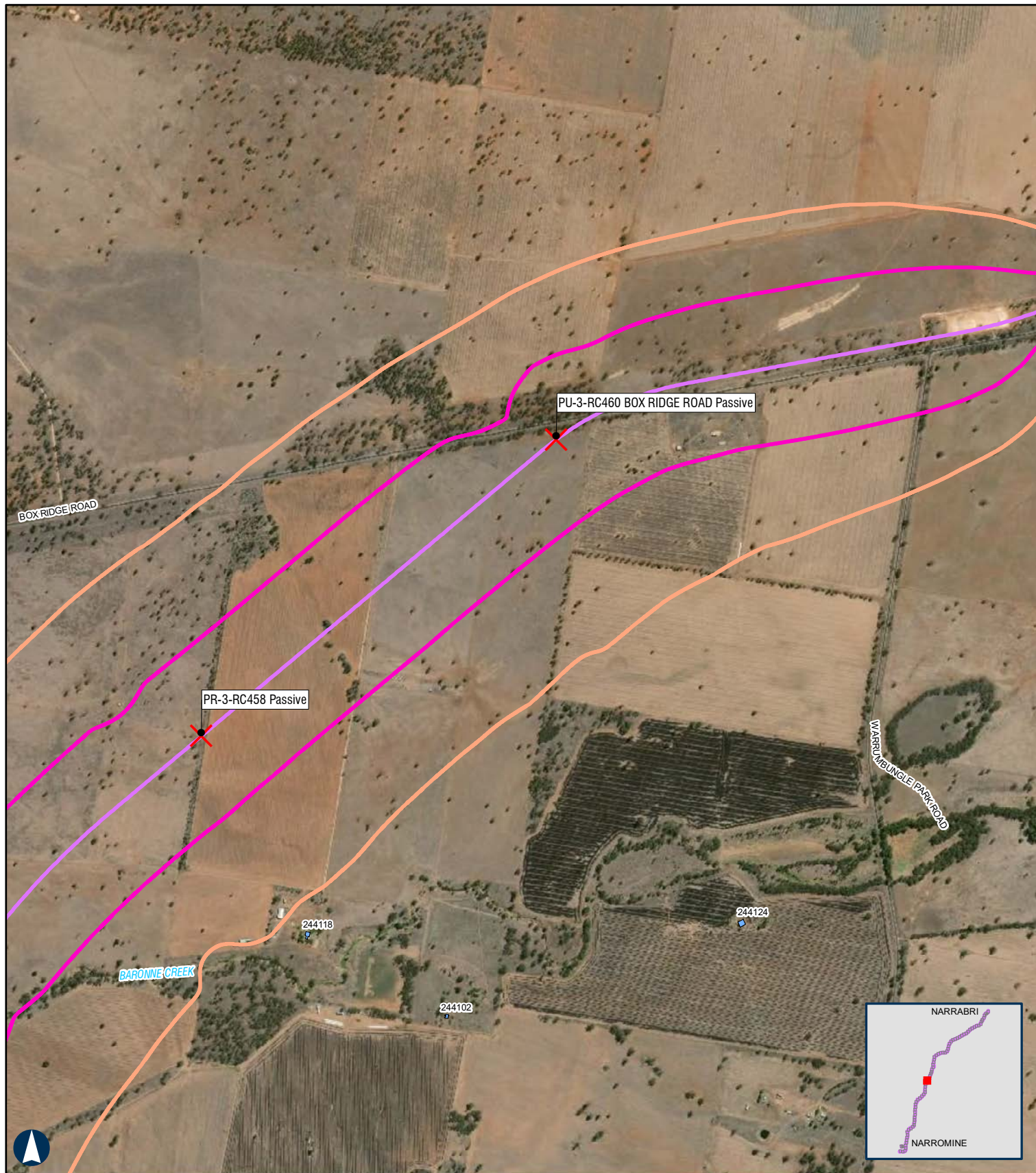
- X Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 123 of 168

500 m

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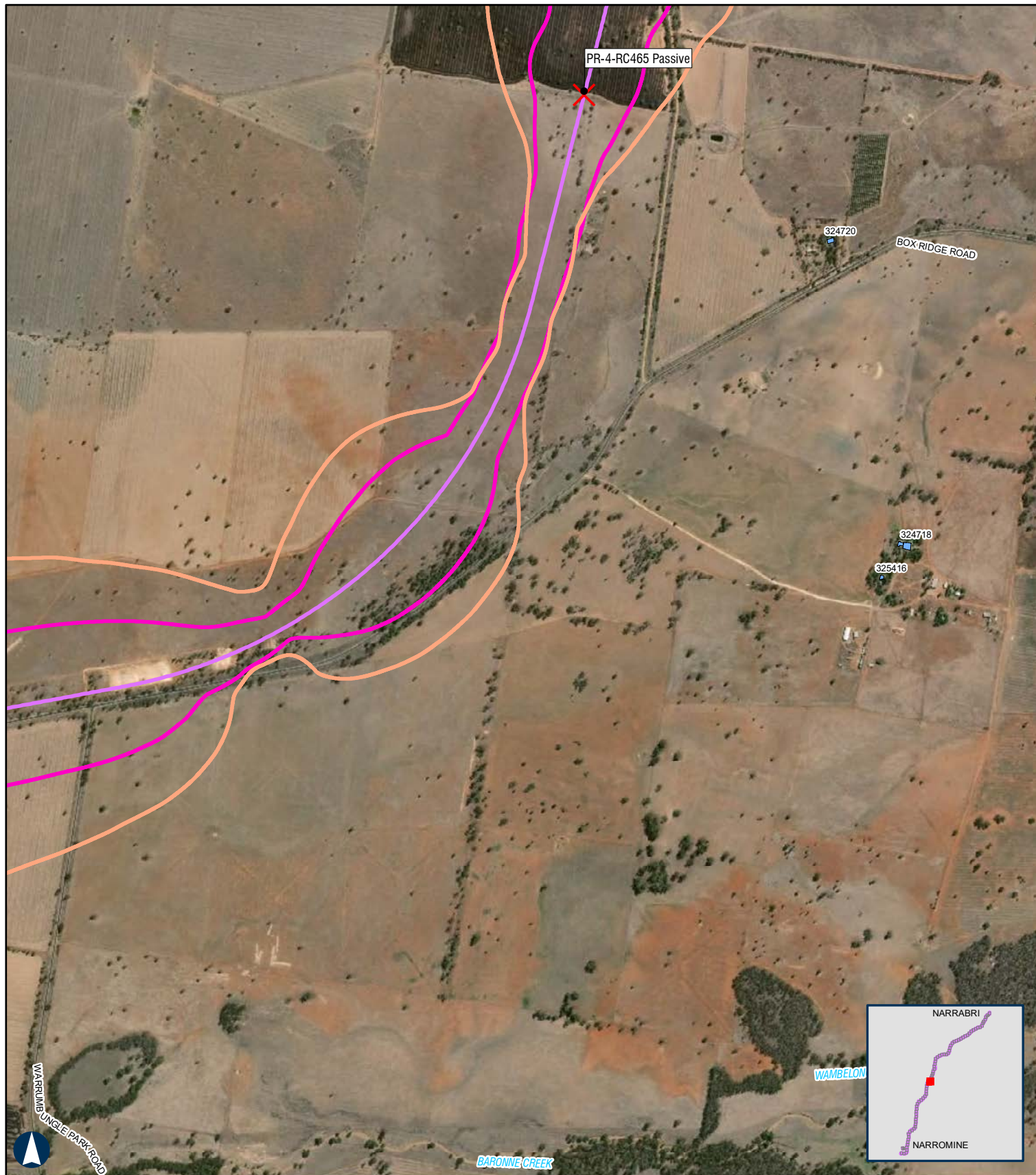
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 124 of 168

500 m

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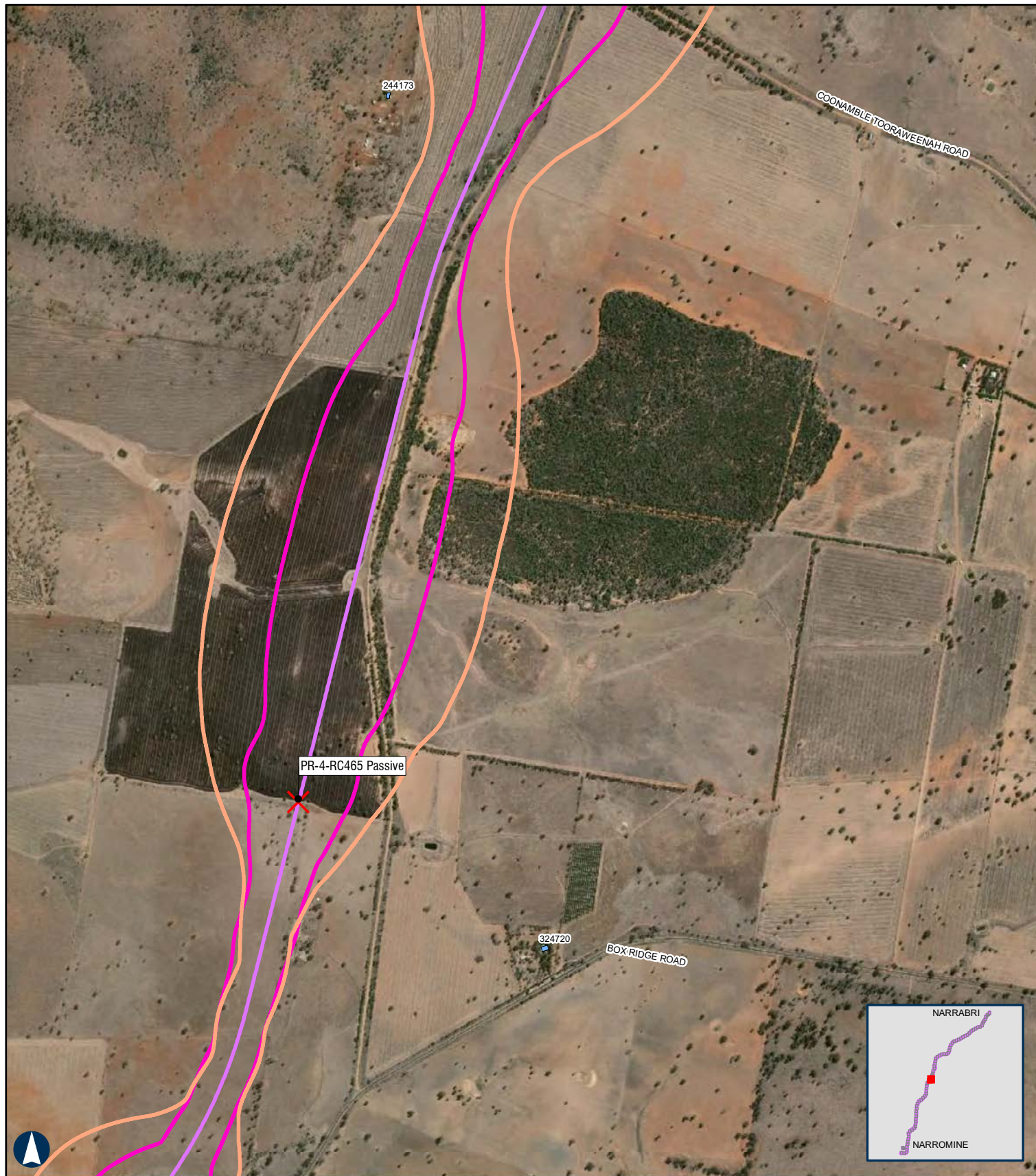
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 125 of 168

500 m

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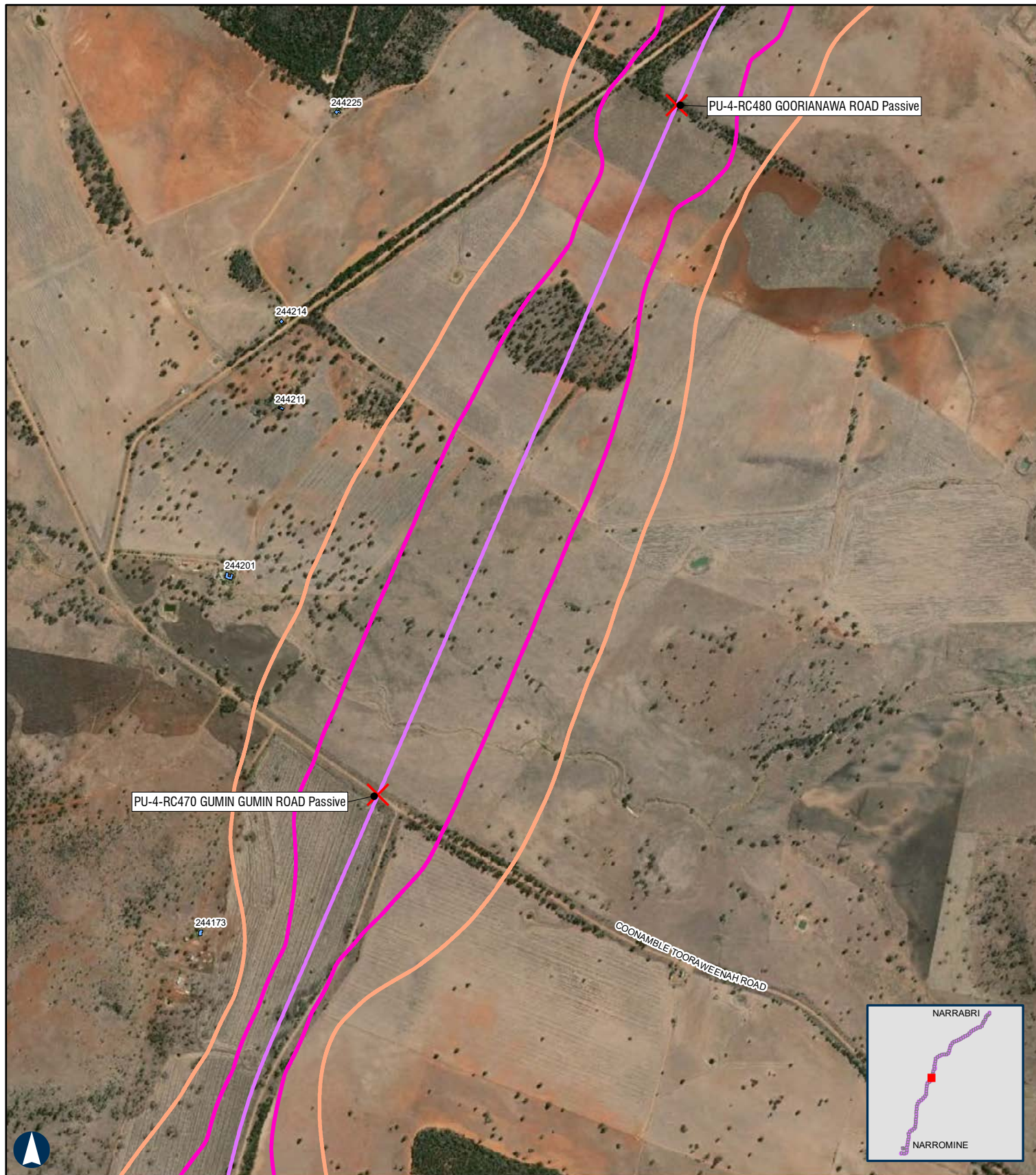
- X Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 126 of 168

500 m

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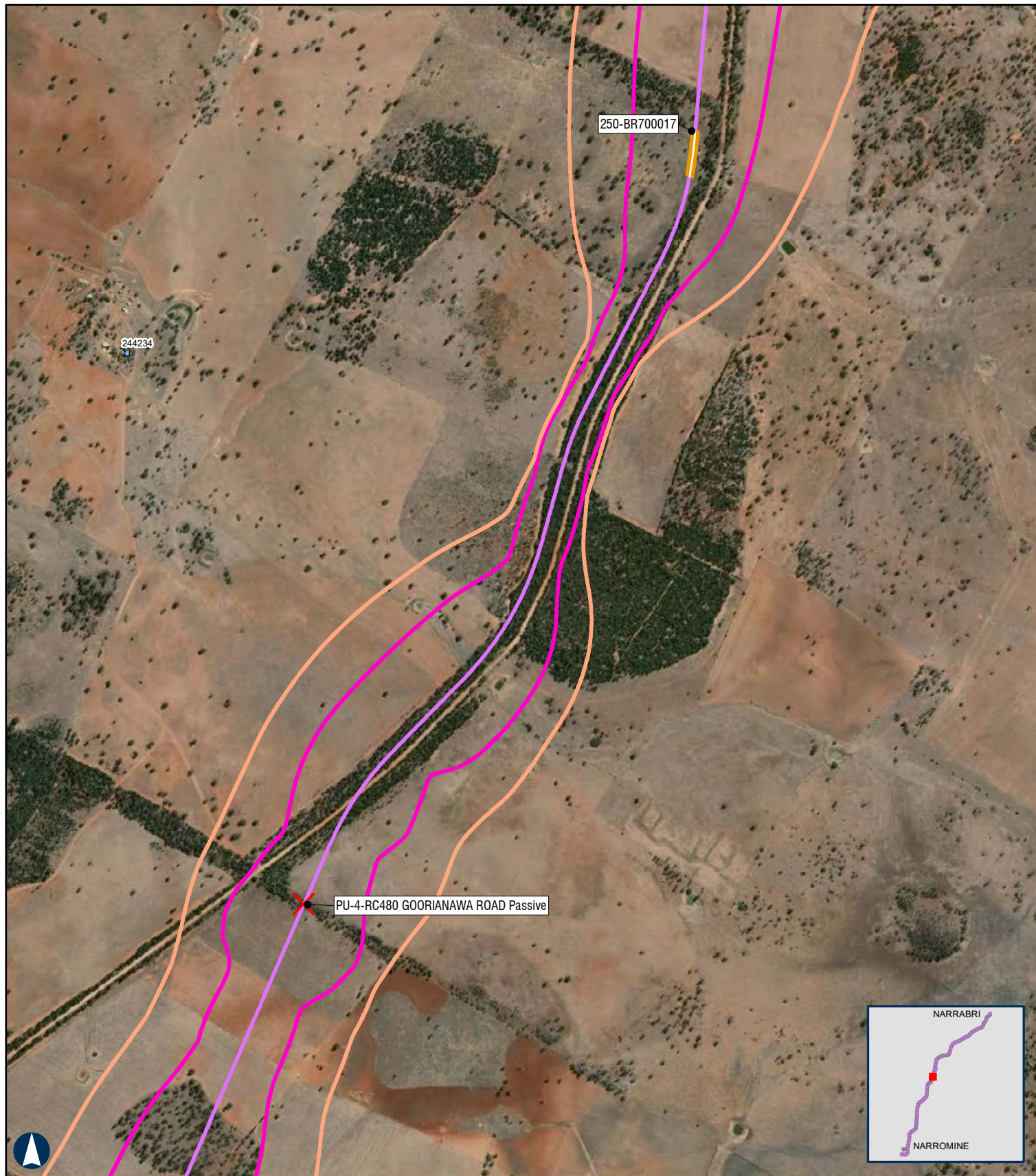
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 127 of 168

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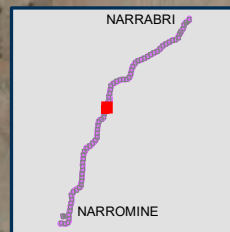
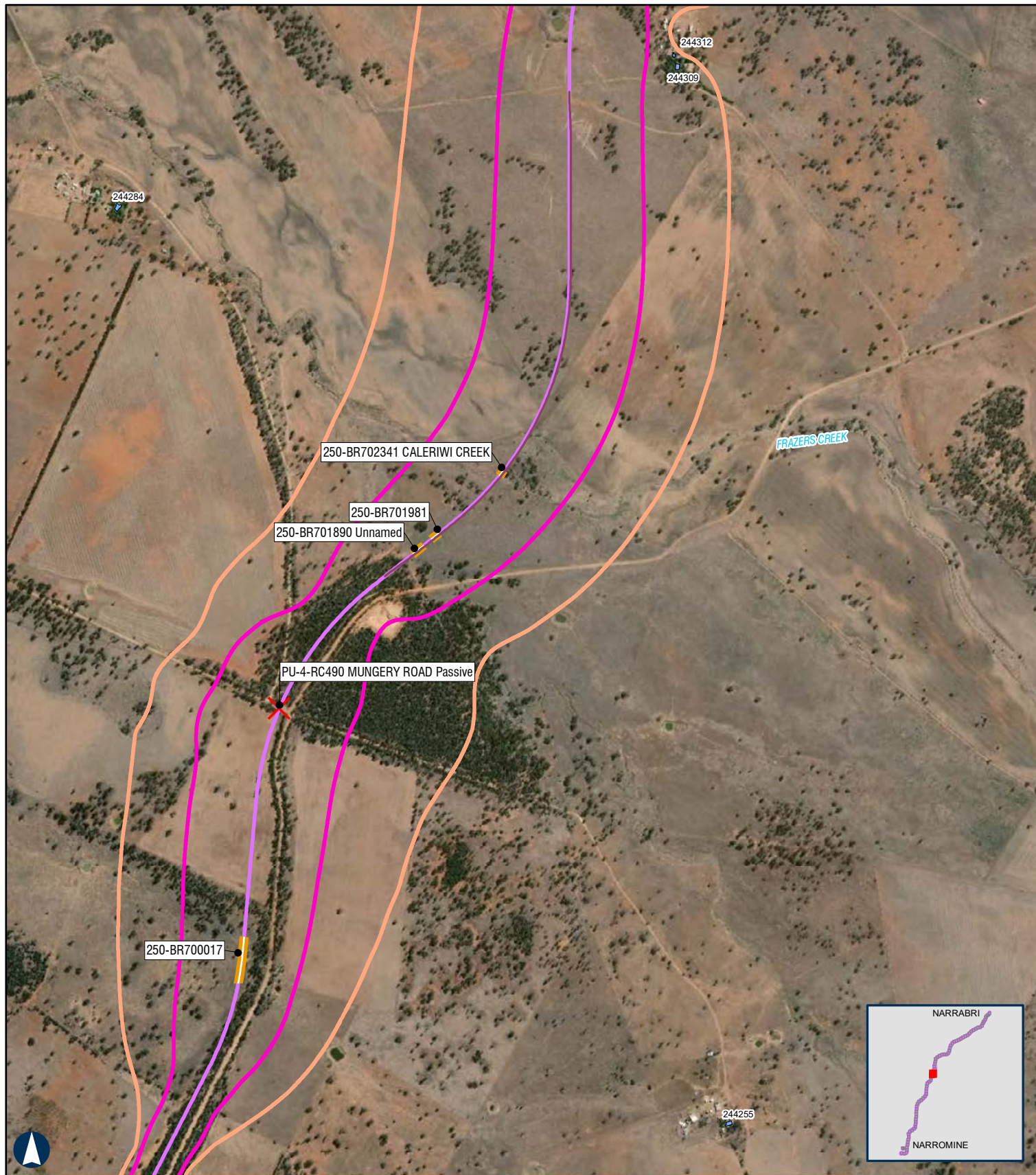
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APPENDIX E - Map 128 of 168

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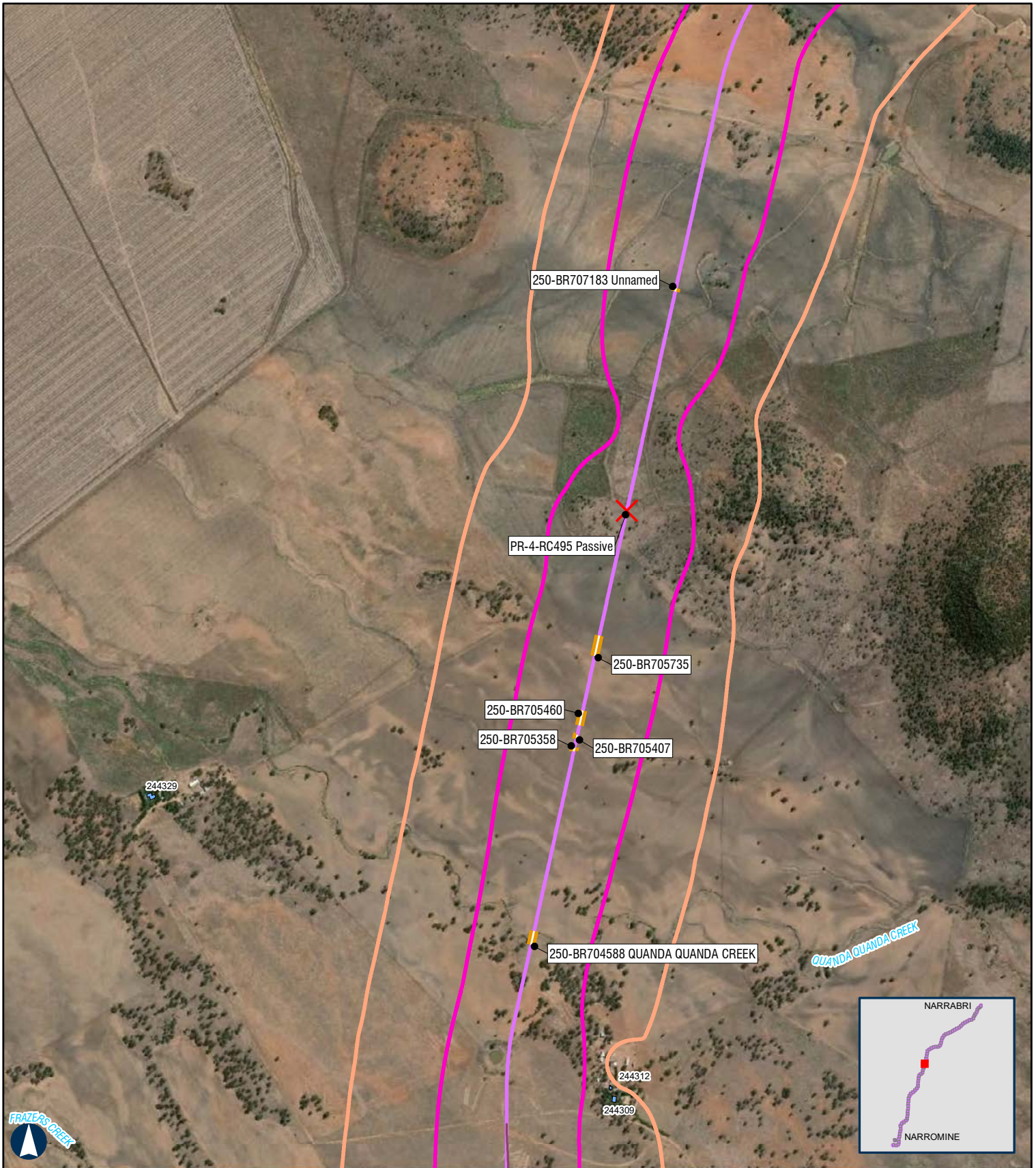
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 129 of 168

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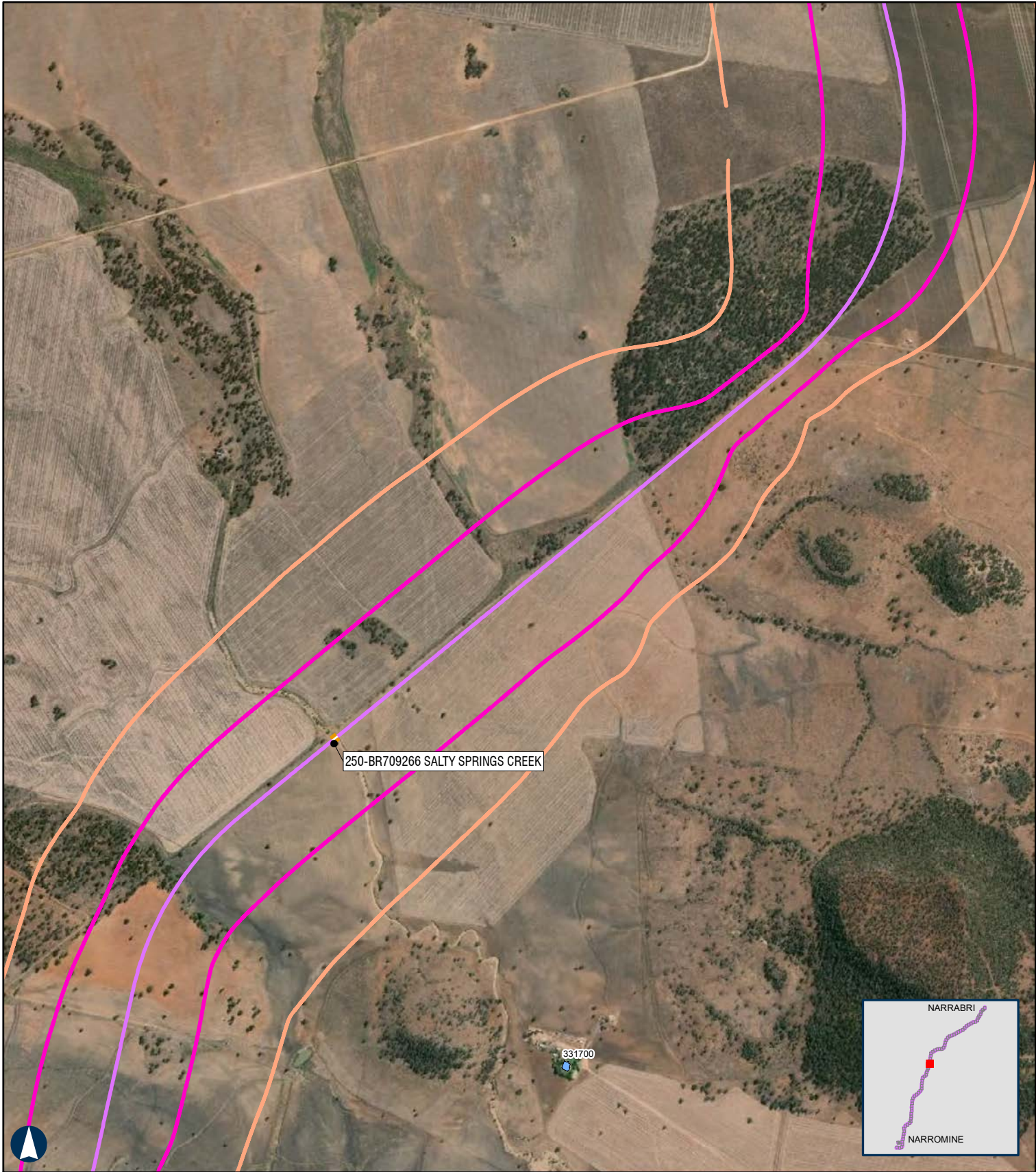
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The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.



NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 130 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
Date: 01-Sep-2020
Author: JG

Scale: 1:20,000

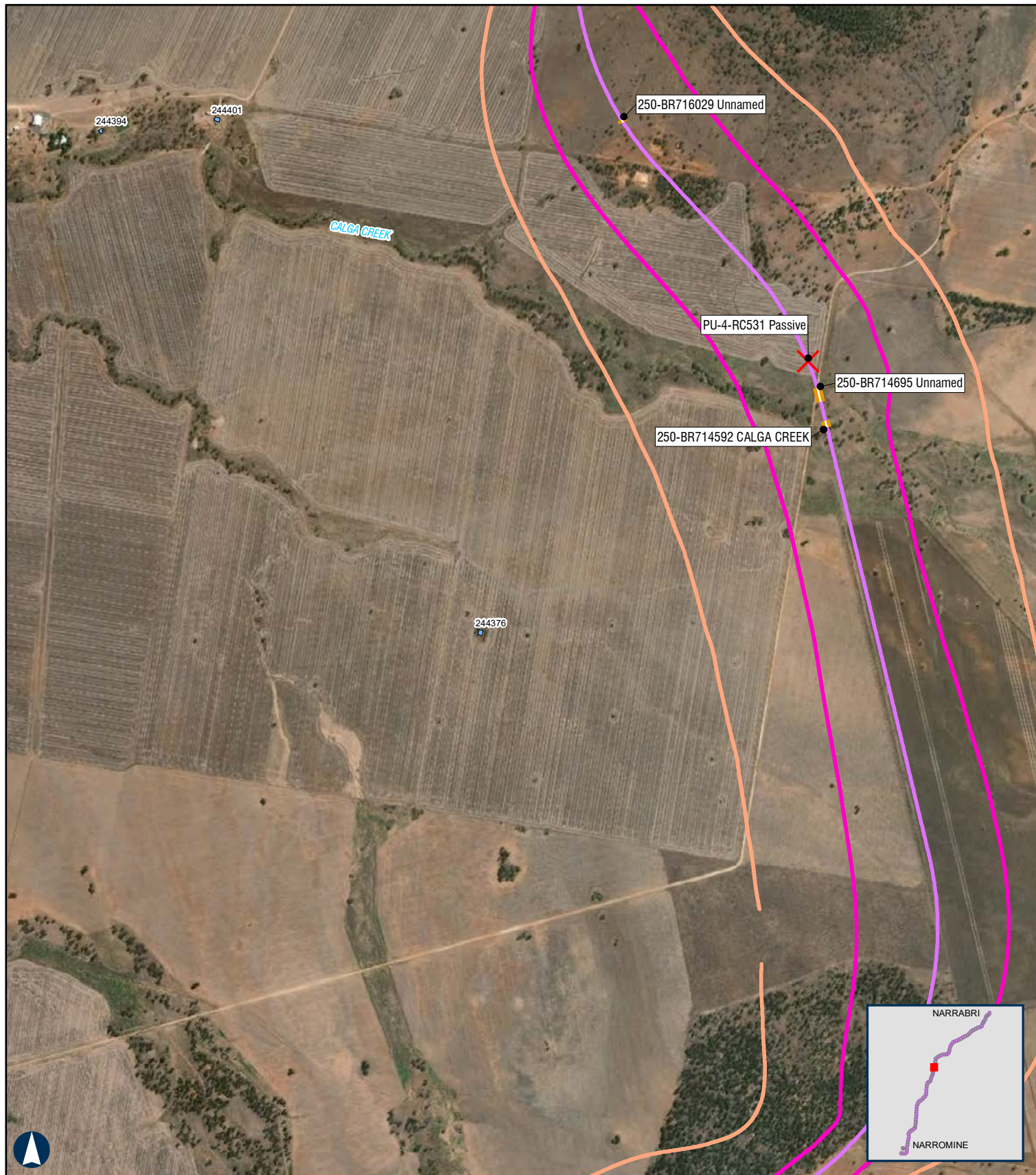
- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 131 of 168

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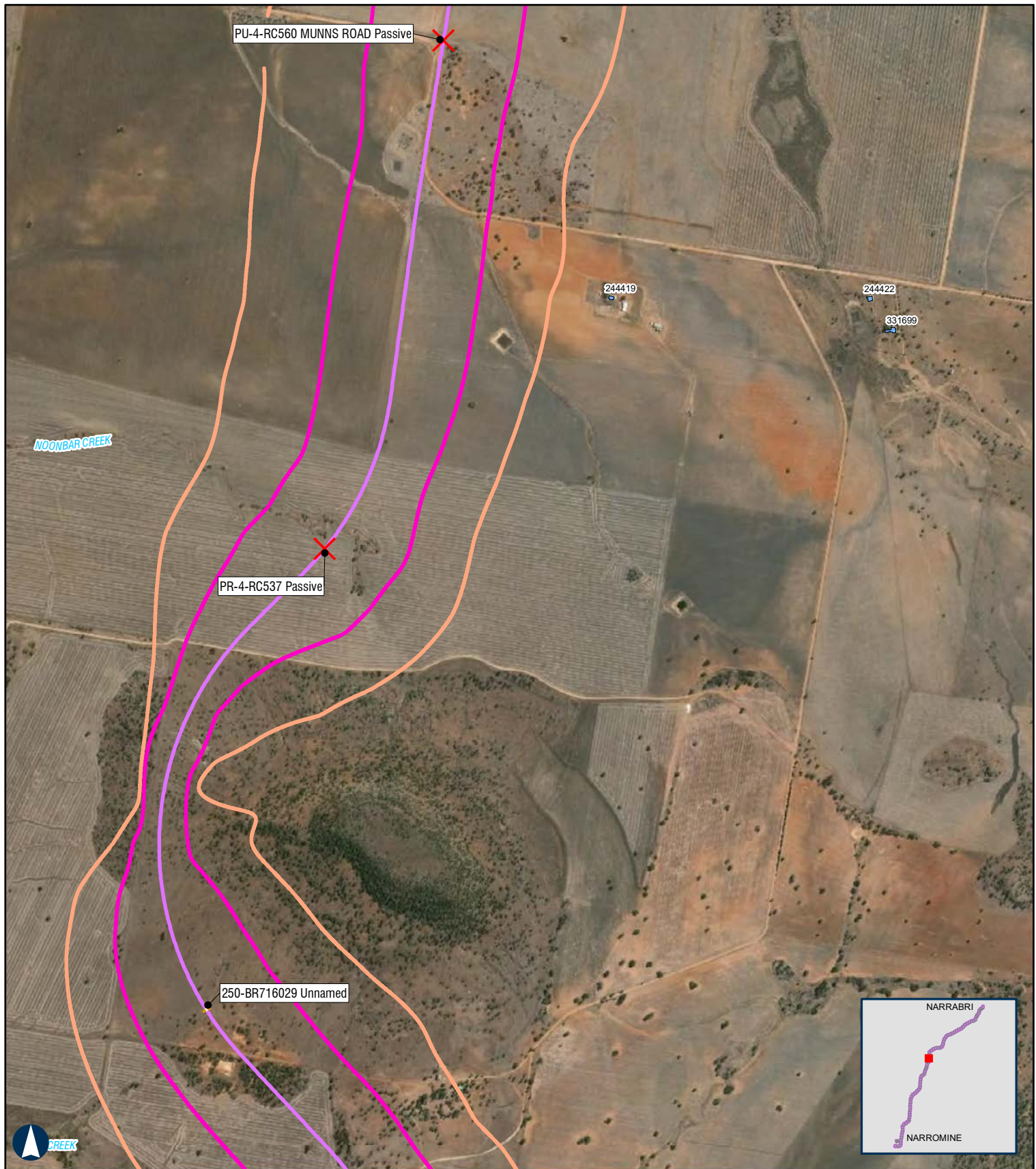
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 132 of 168

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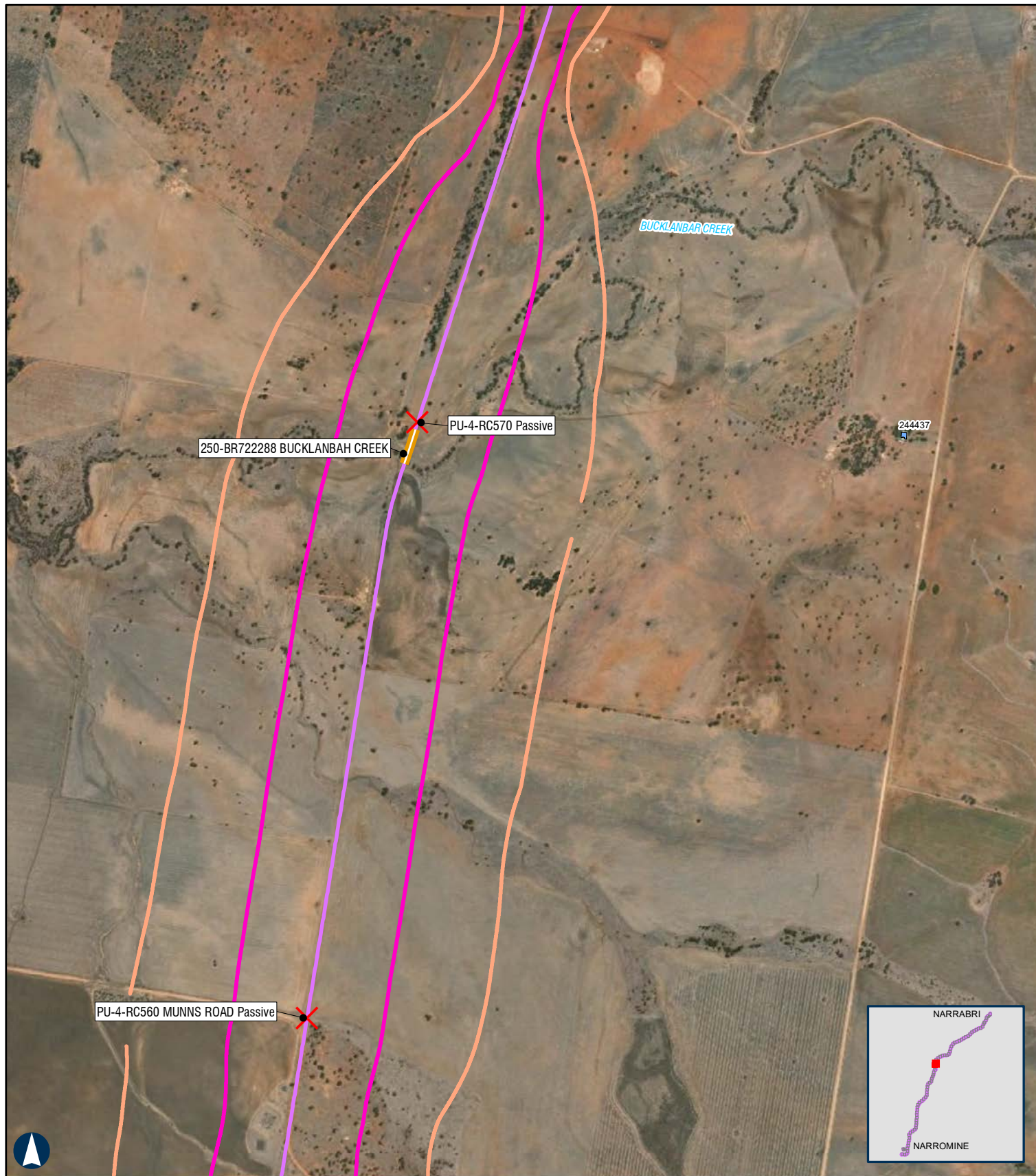
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 133 of 168

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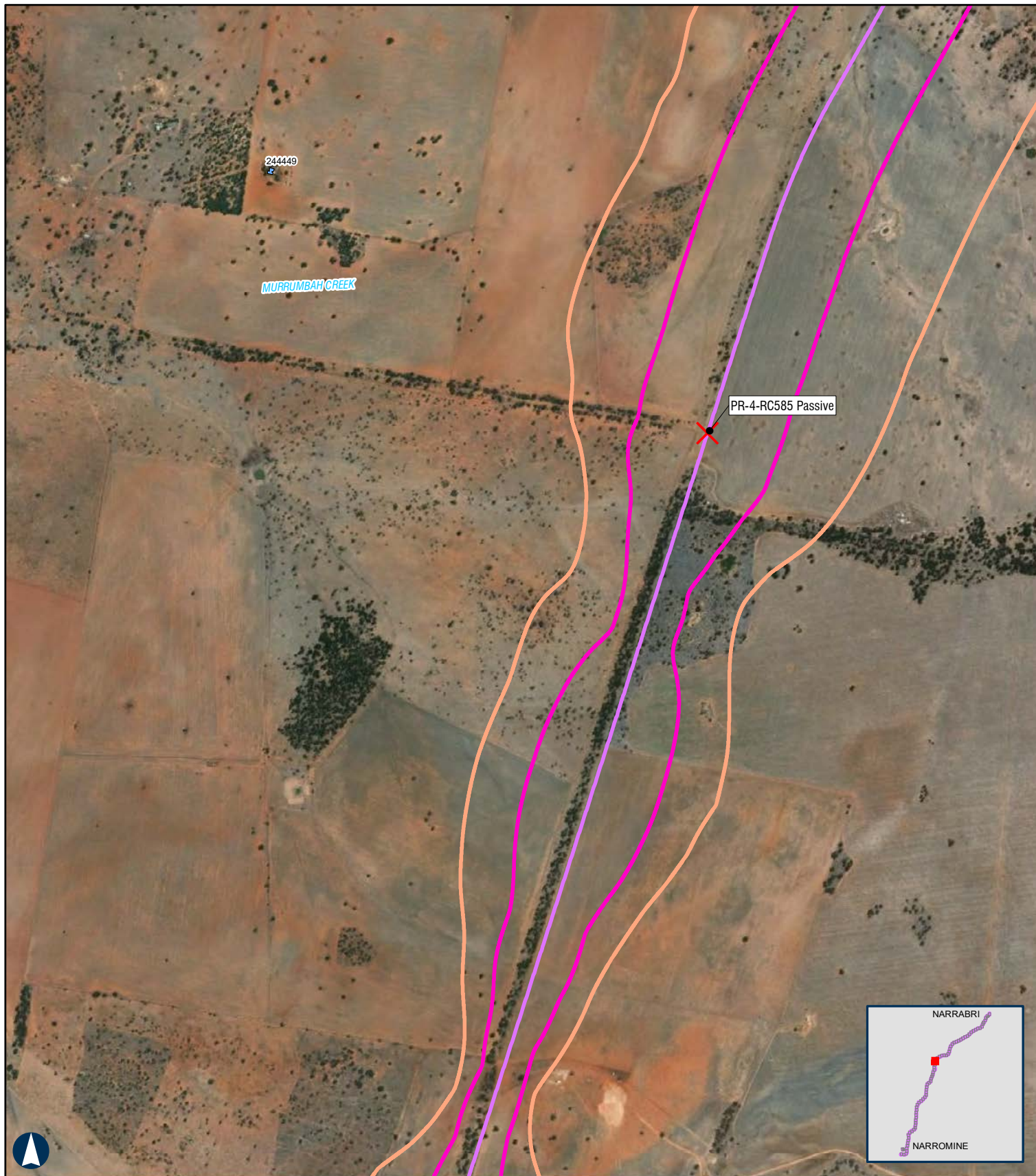
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 134 of 168

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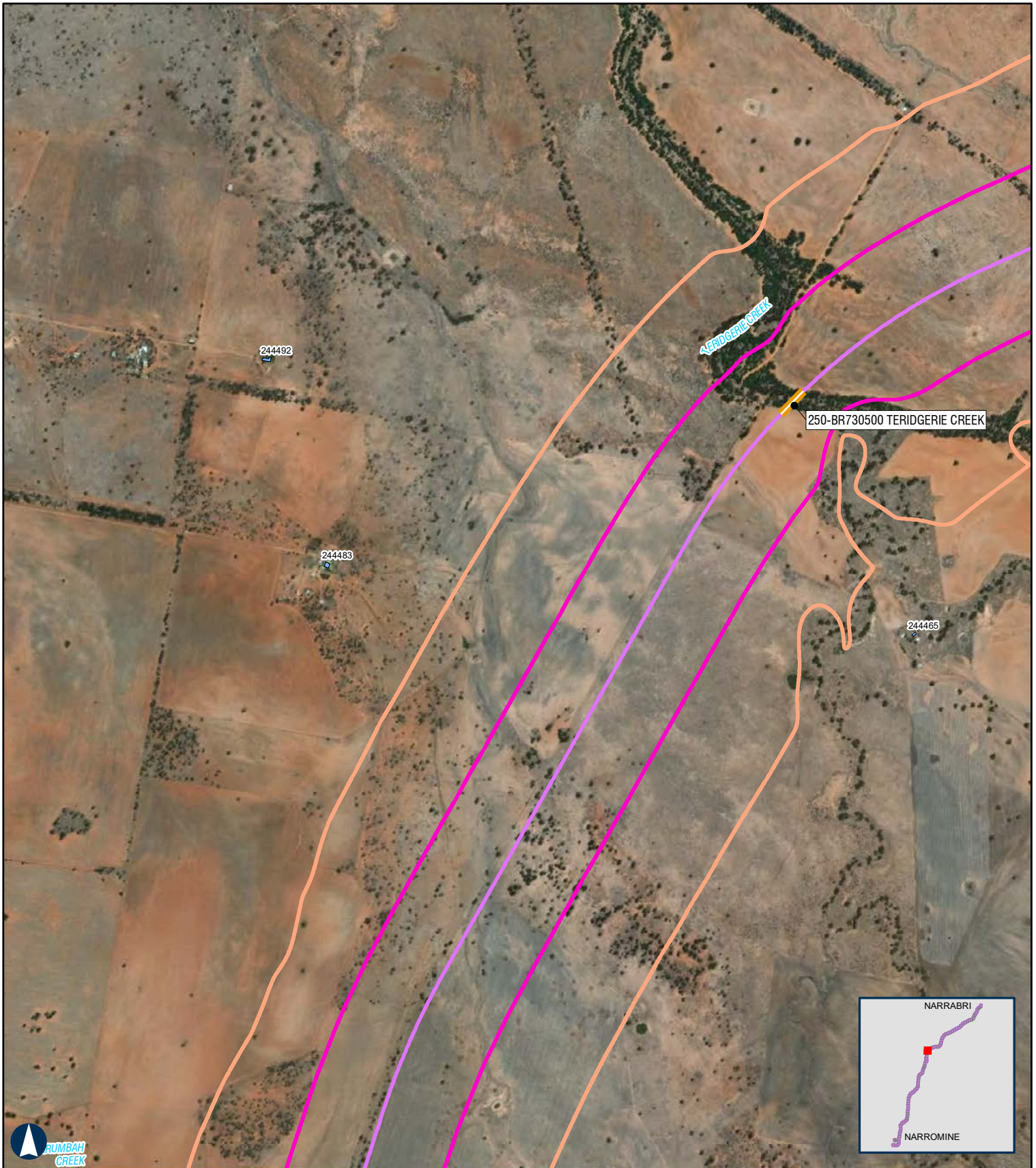
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 135 of 168

500 m

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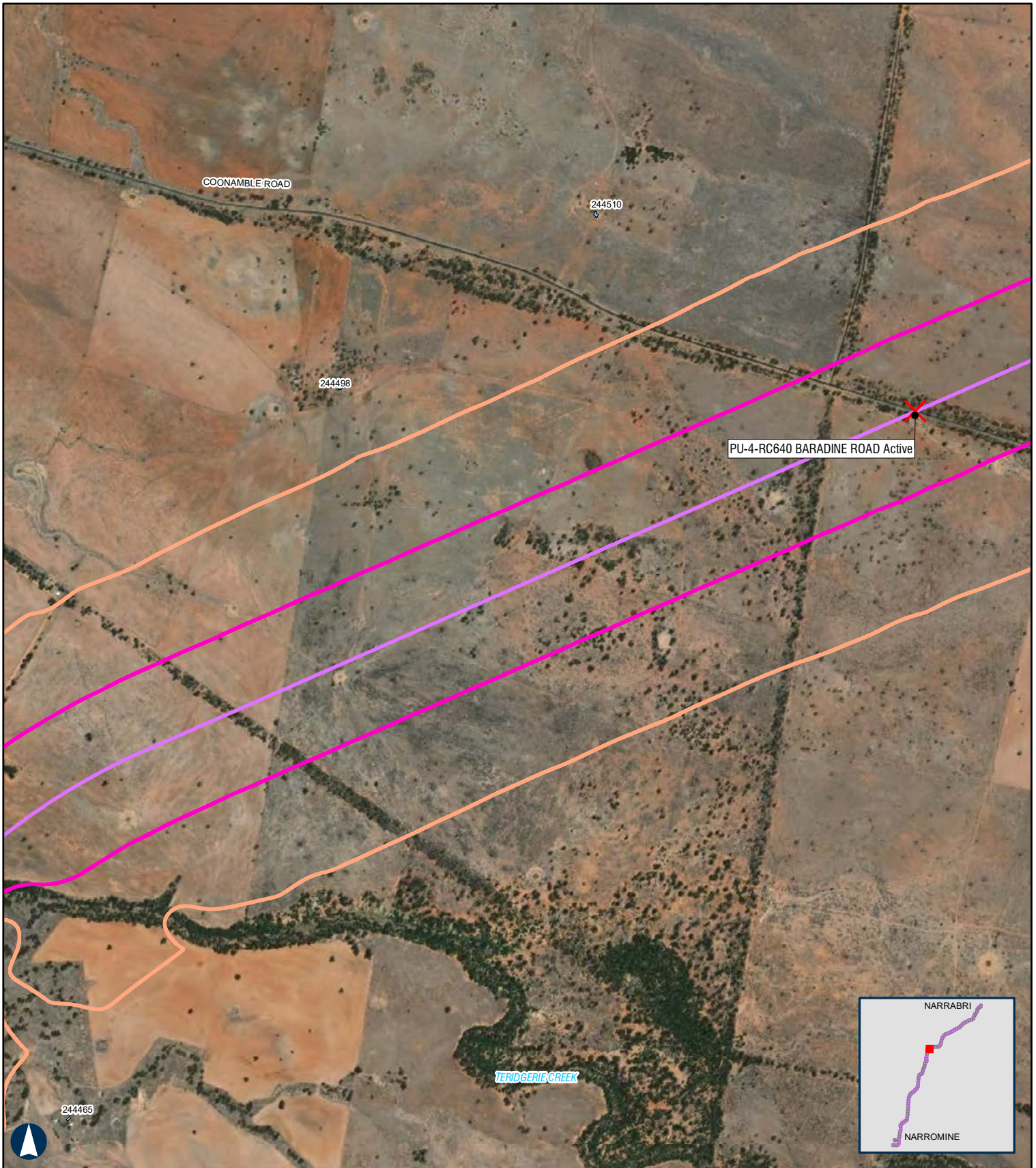
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 136 of 168

500 m

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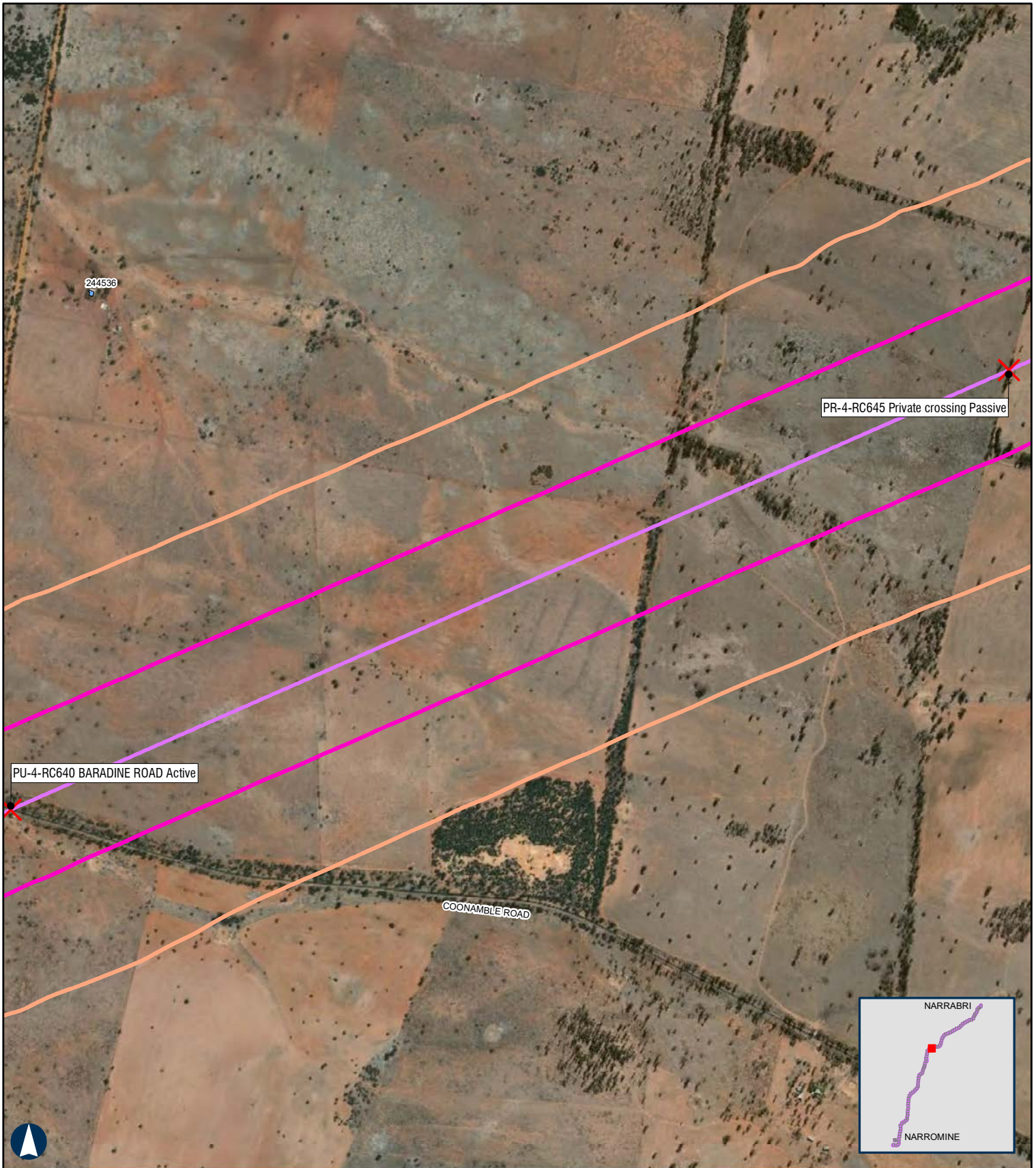
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 137 of 168

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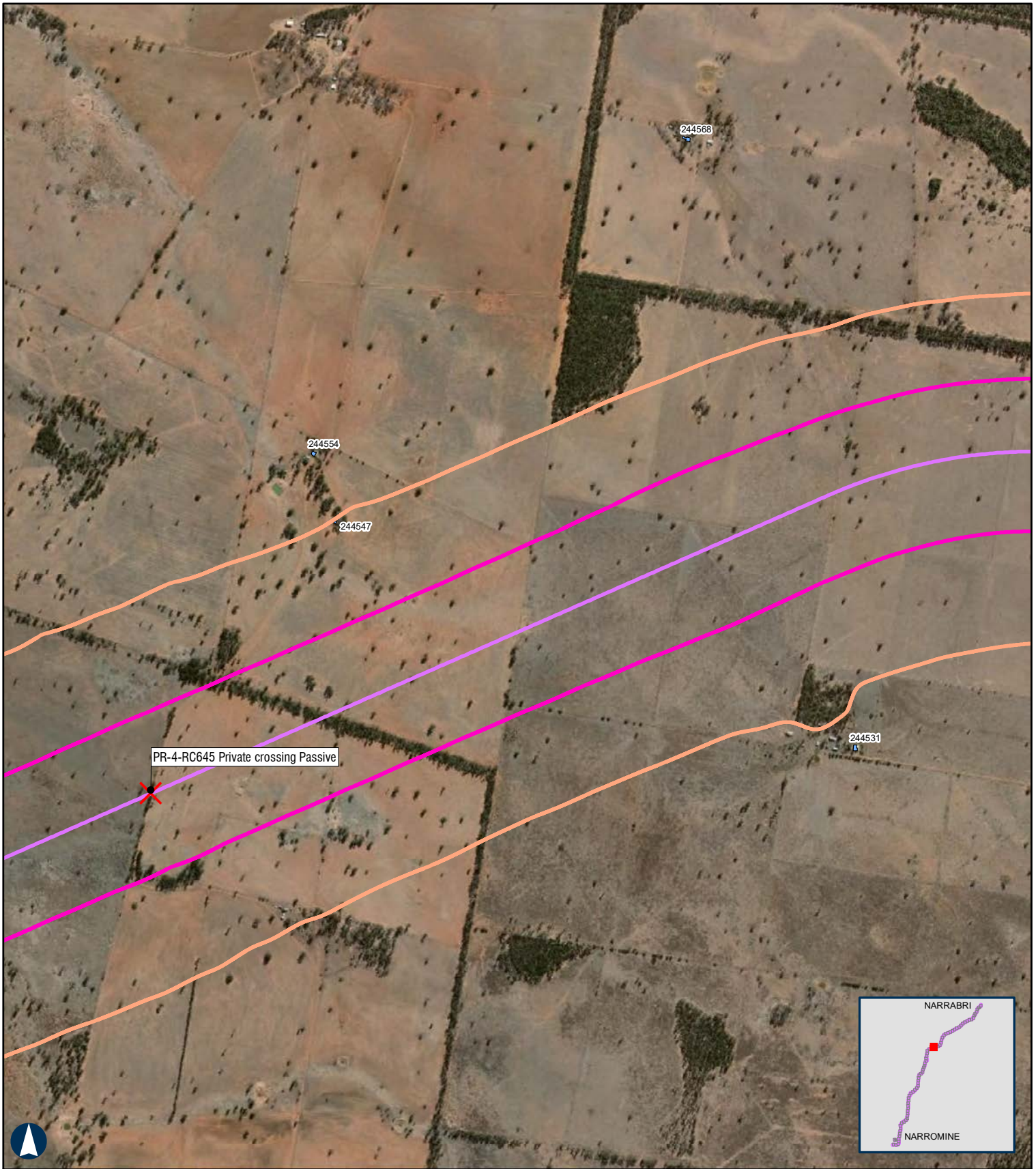
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 138 of 168

500 m

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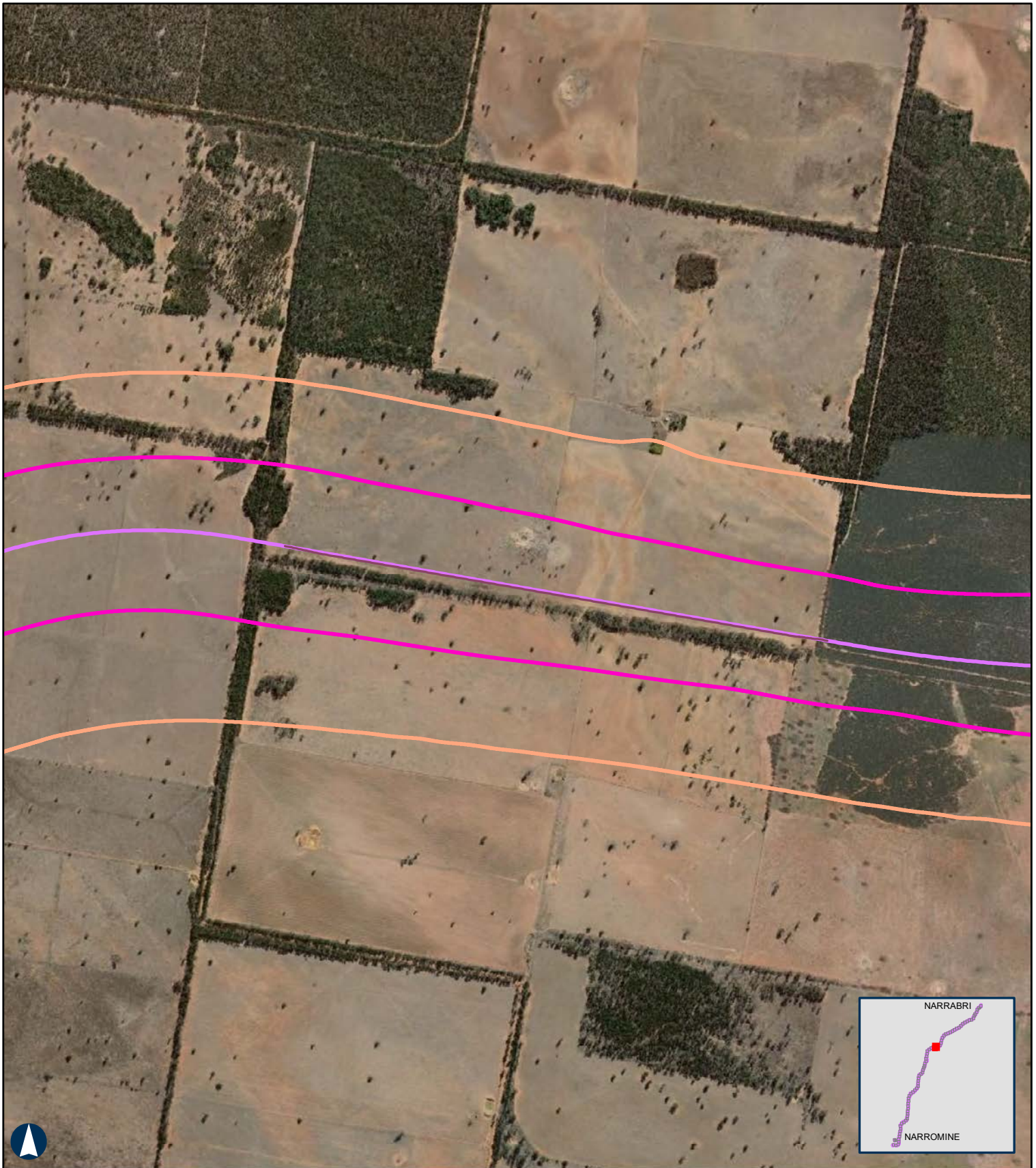
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 139 of 168

500 m

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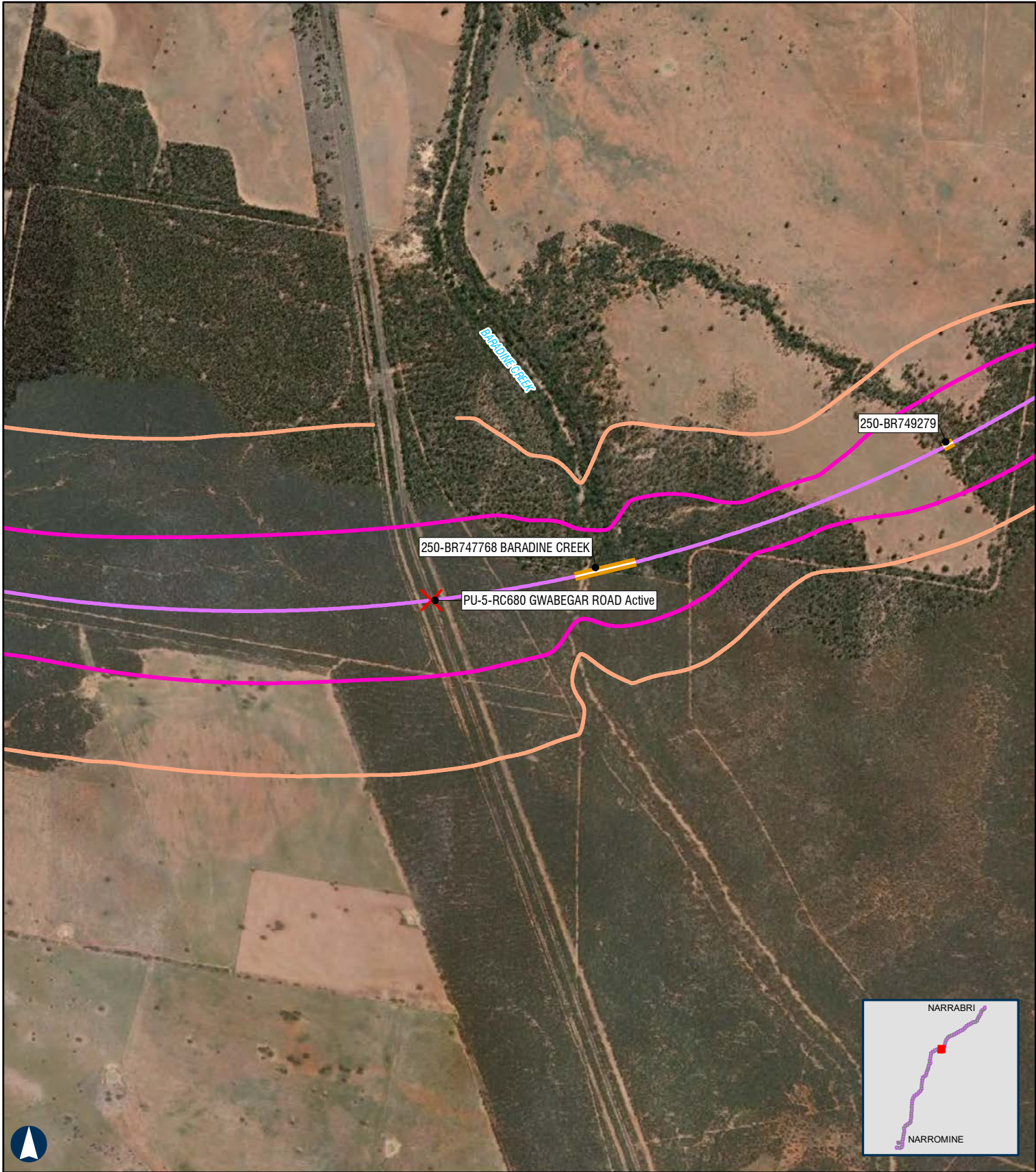
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 140 of 168

500 m

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✗

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

Noise Assessment Area – Upgrading Existing Railway

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Night-time noise criteria LAeq 9hr 55dBA new rail corridor

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Night-time noise criteria LA max 80dBA new rail corridor

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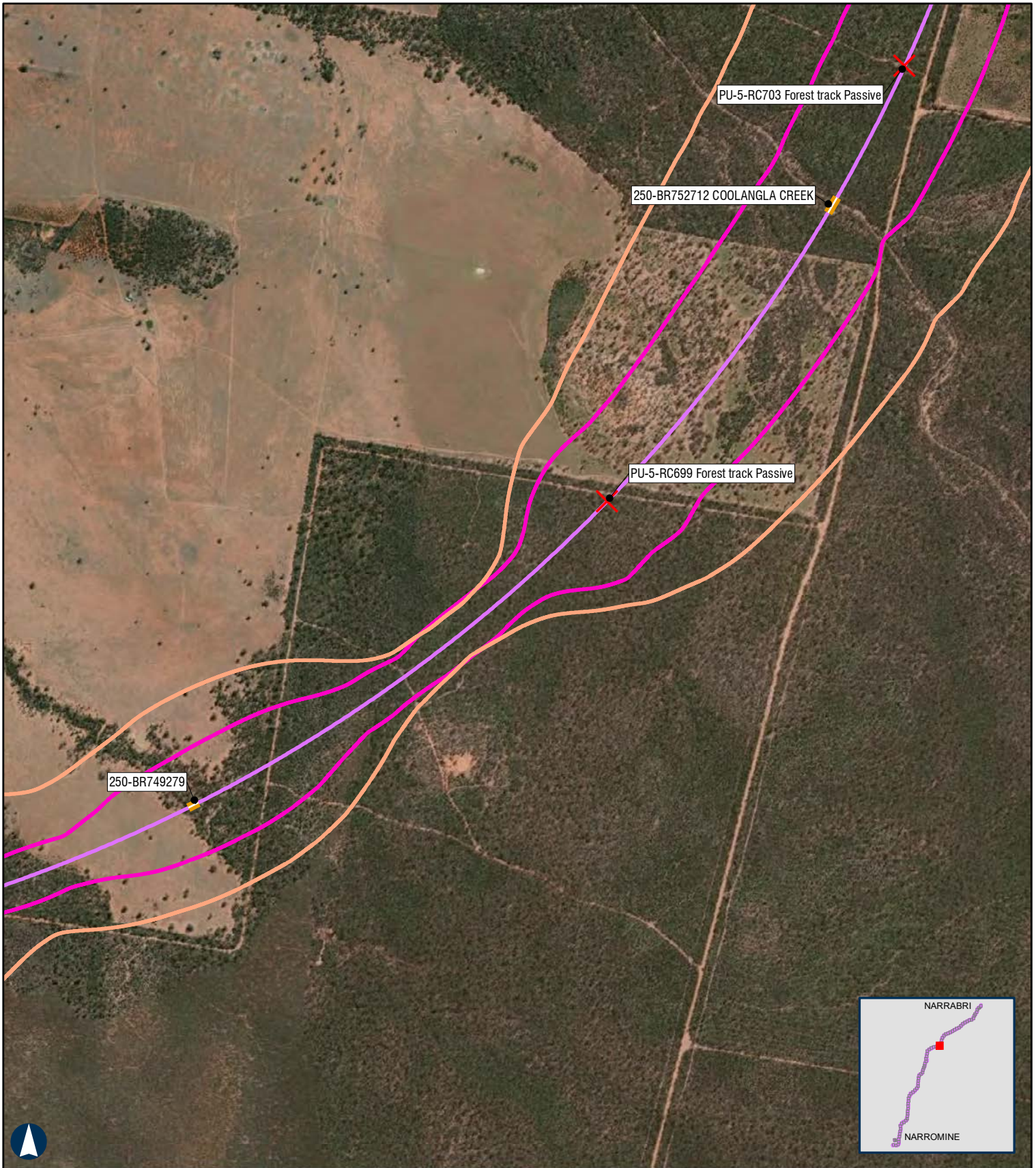
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 Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 141 of 168

500 m

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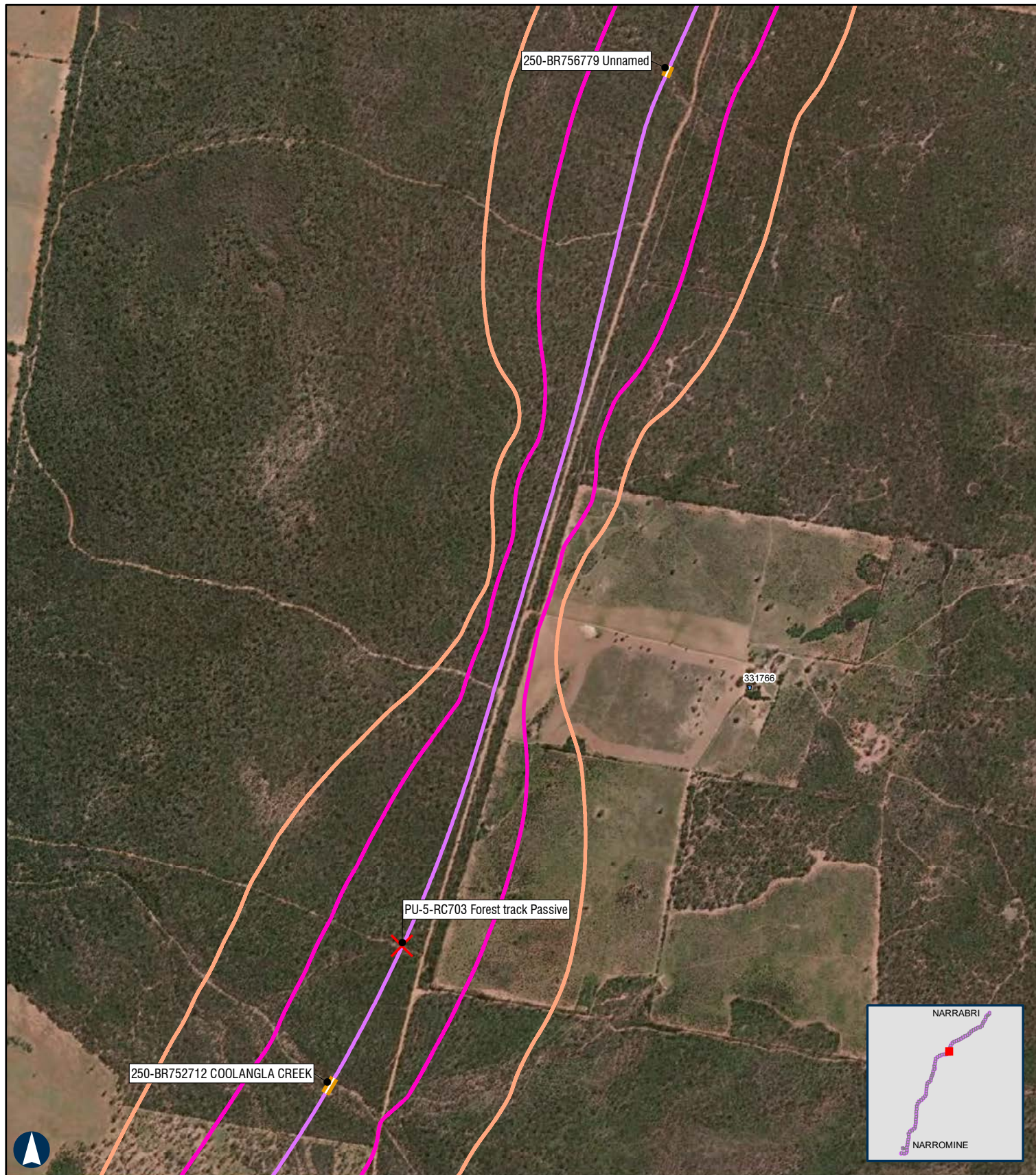
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 142 of 168

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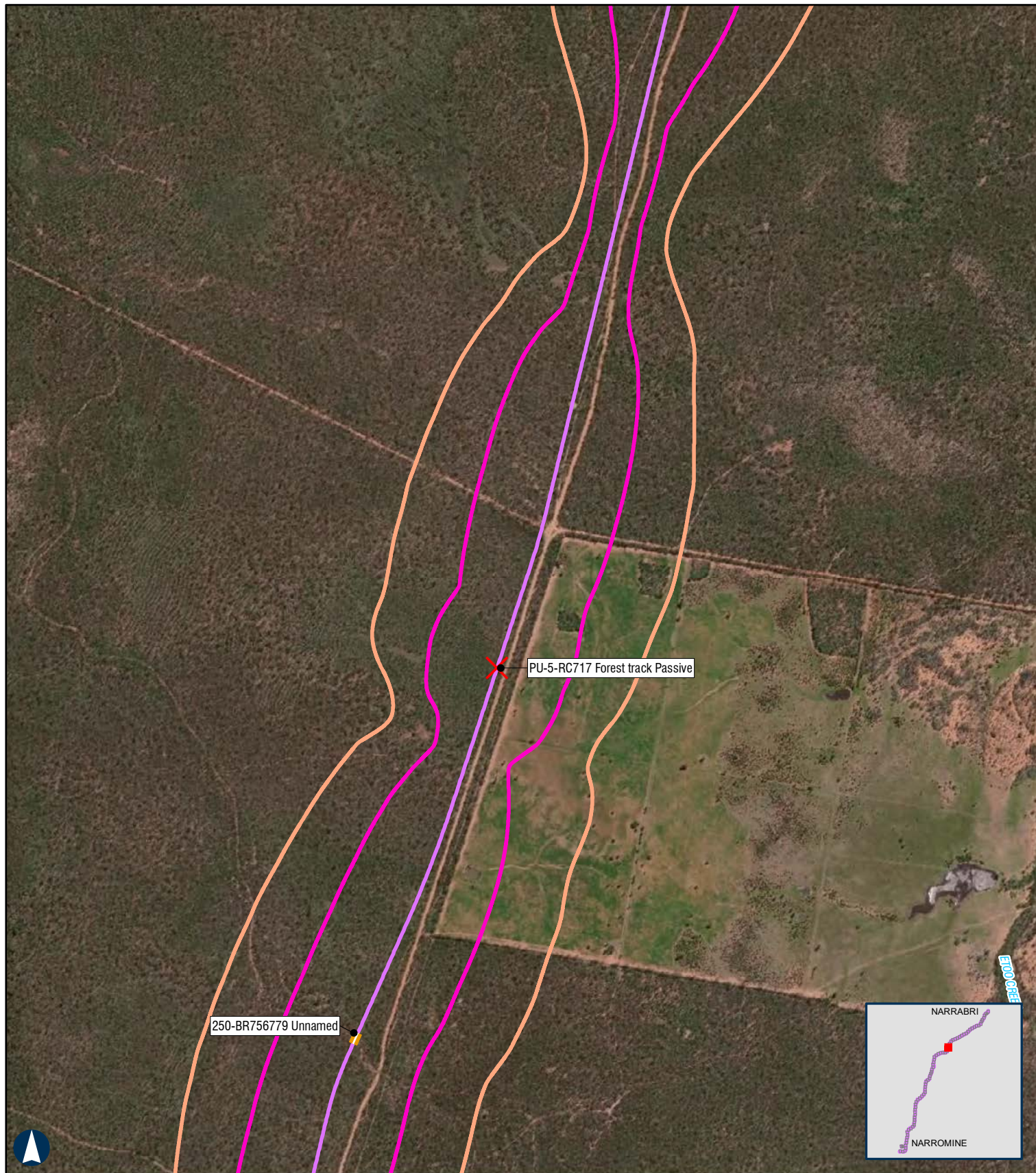
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 143 of 168

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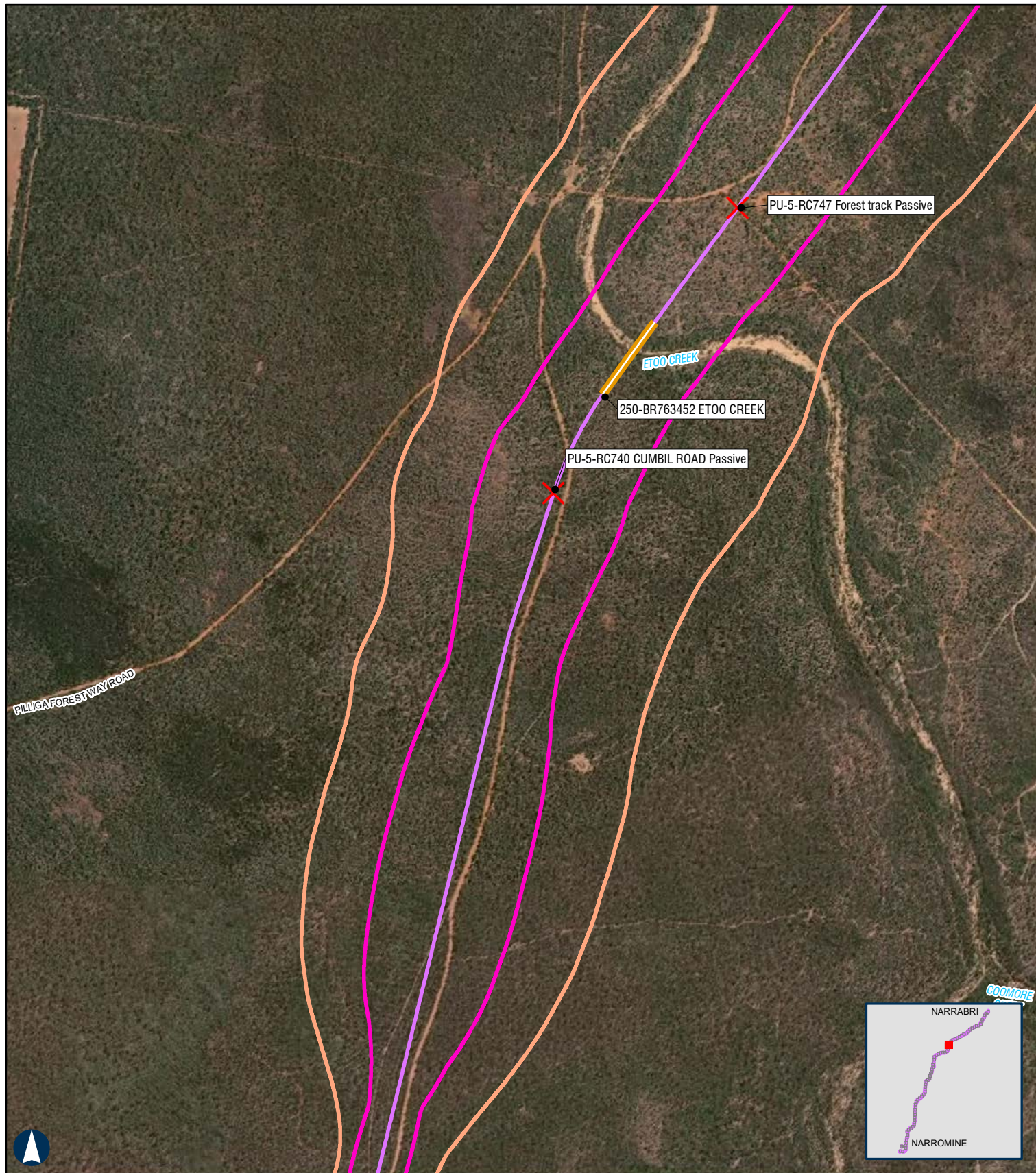
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 144 of 168

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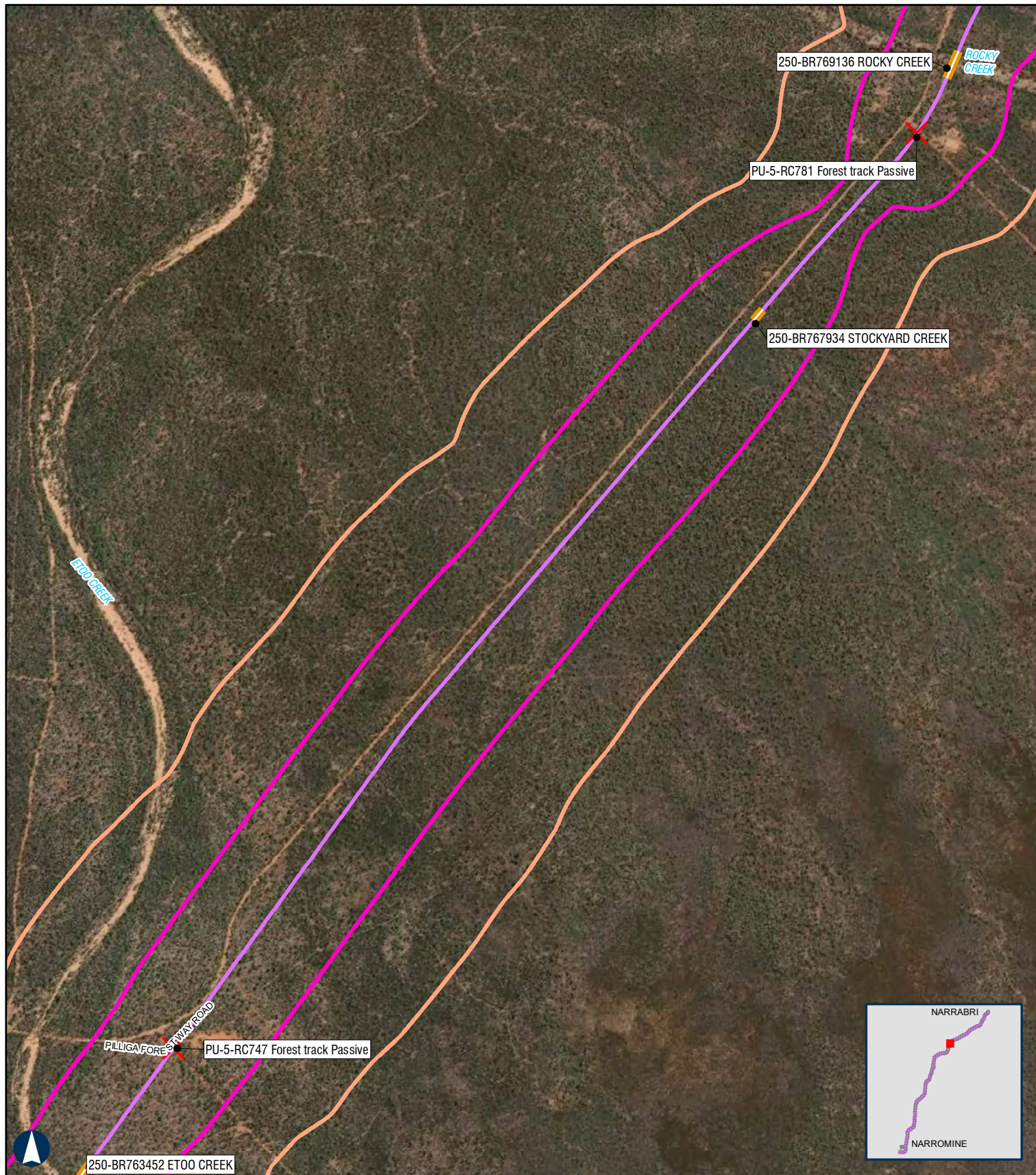
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 145 of 168

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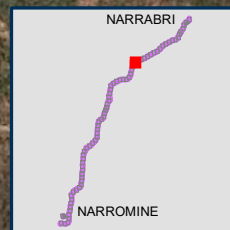
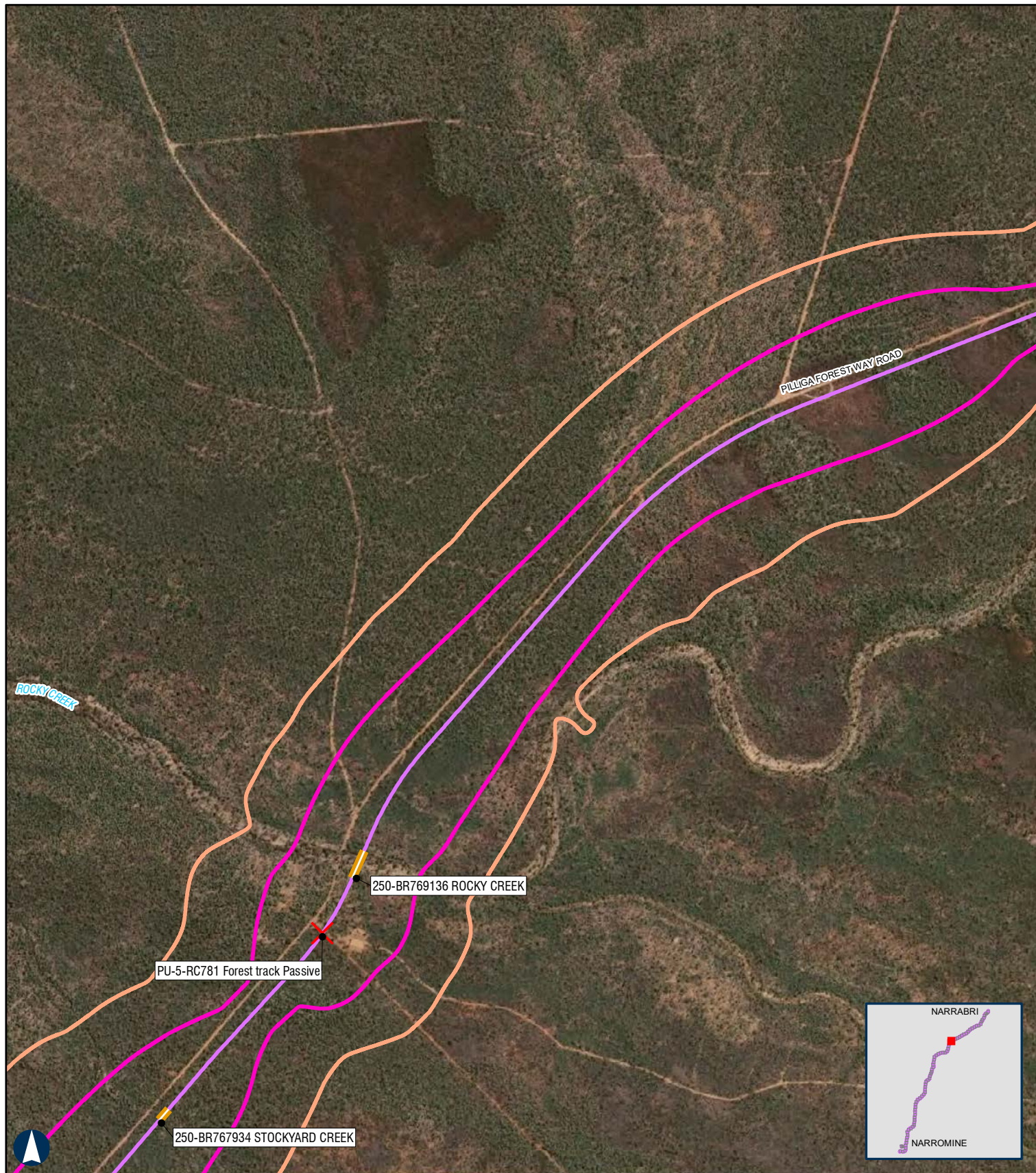
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 146 of 168

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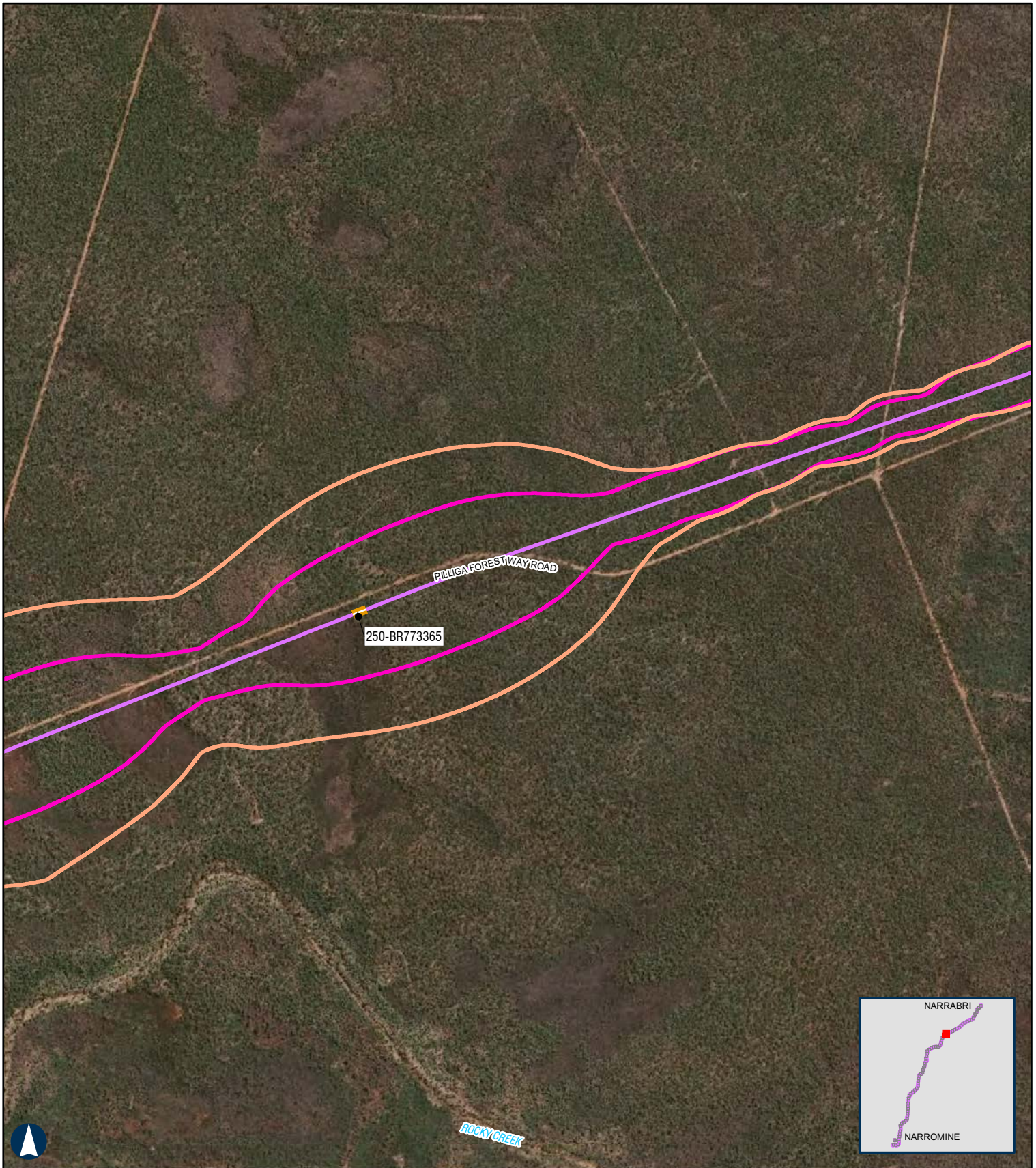
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 147 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
Date: 01-Sep-2020
Author: JG

Scale: 1:20,000

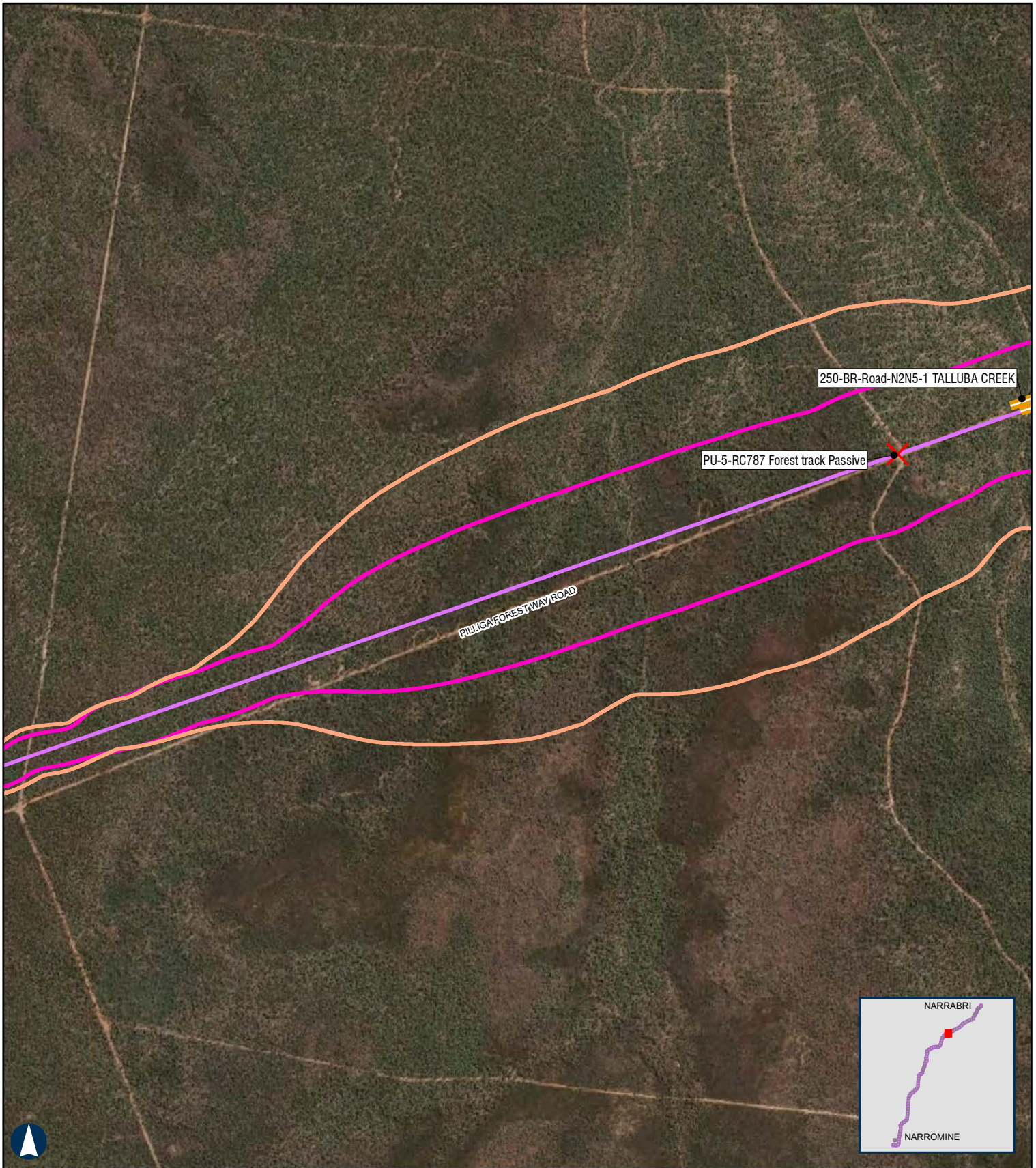
- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

ARTC **InlandRail**

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 148 of 168

500 m

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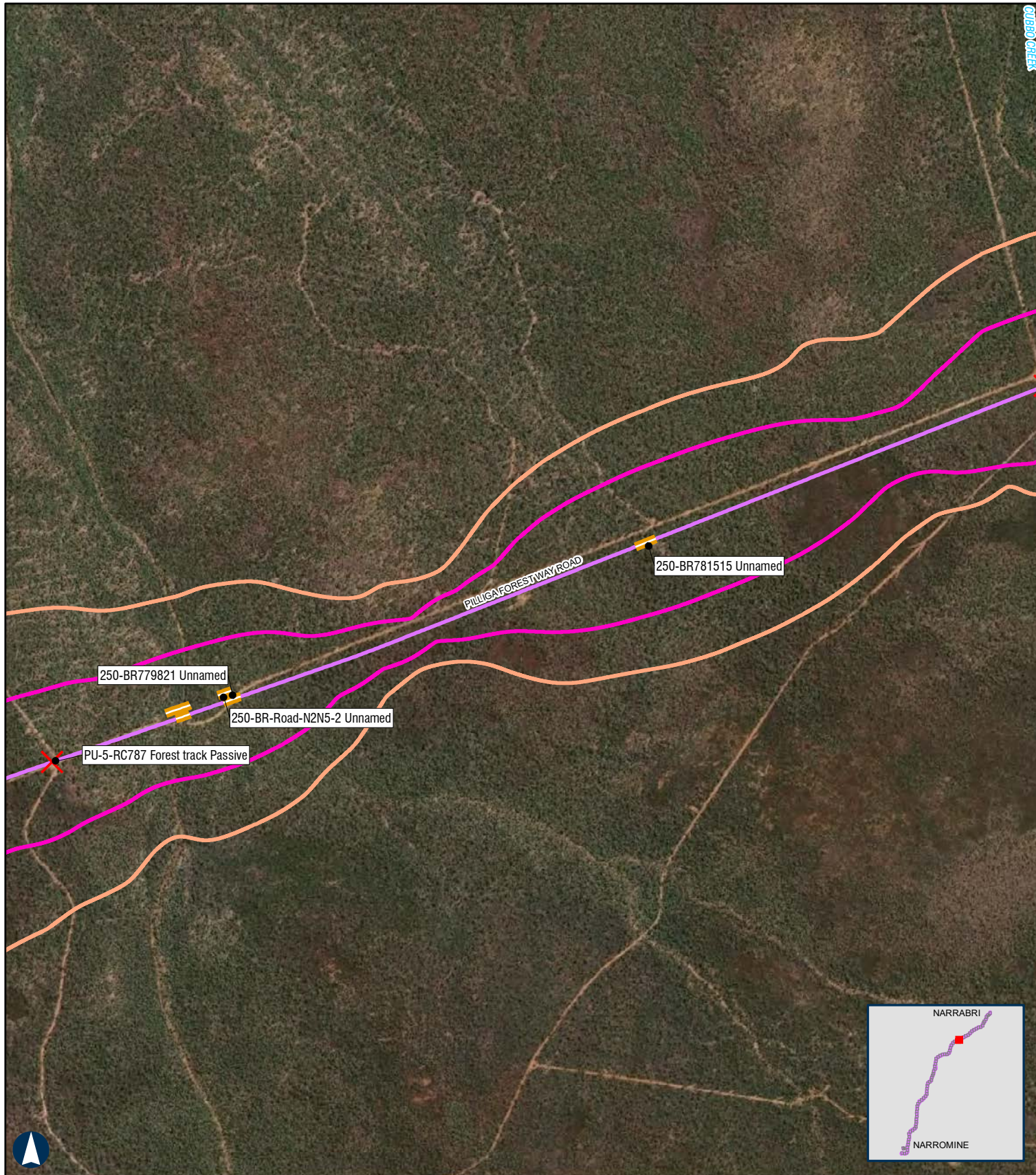
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 149 of 168

500 m

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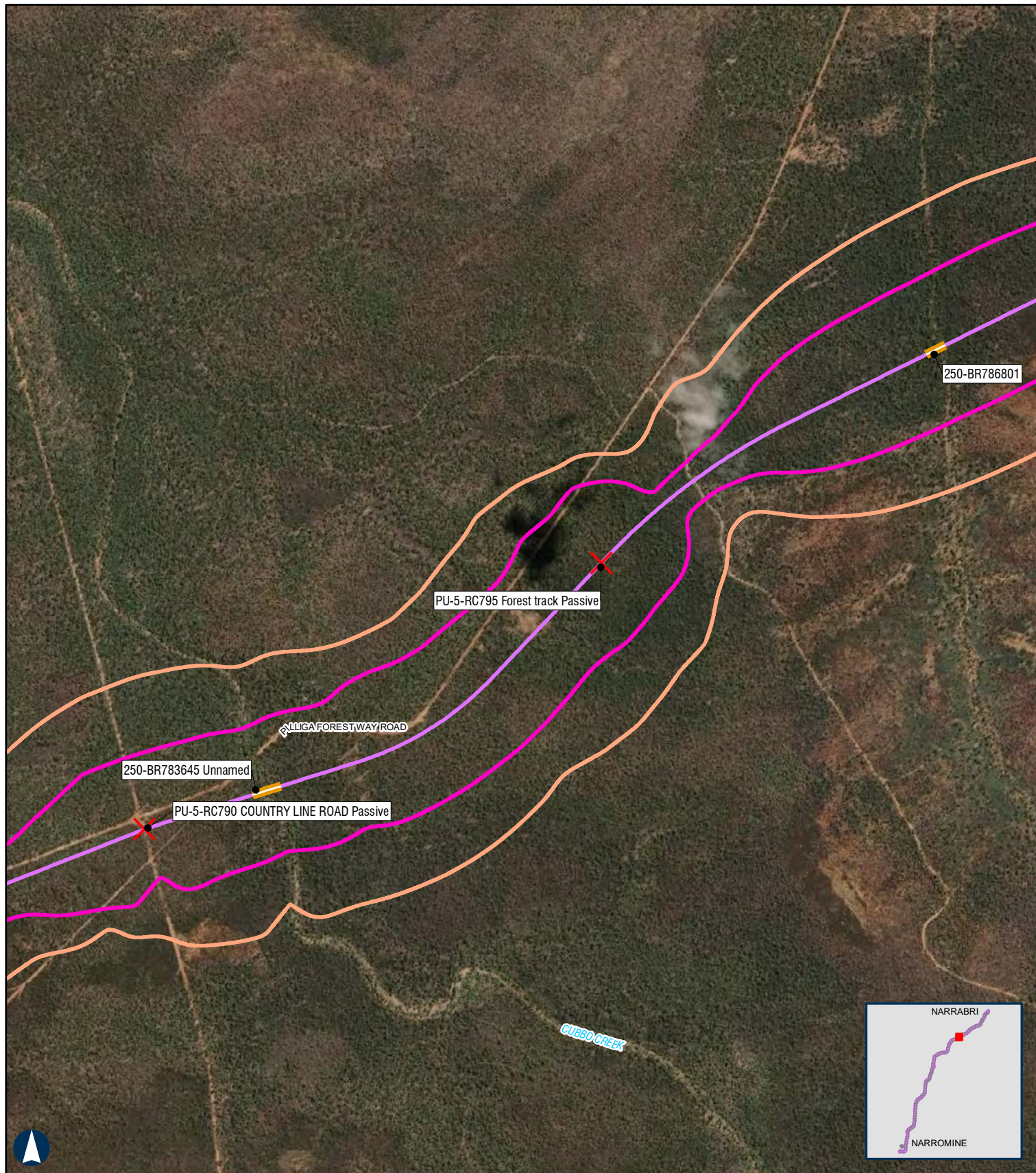
- Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 150 of 168

500 m

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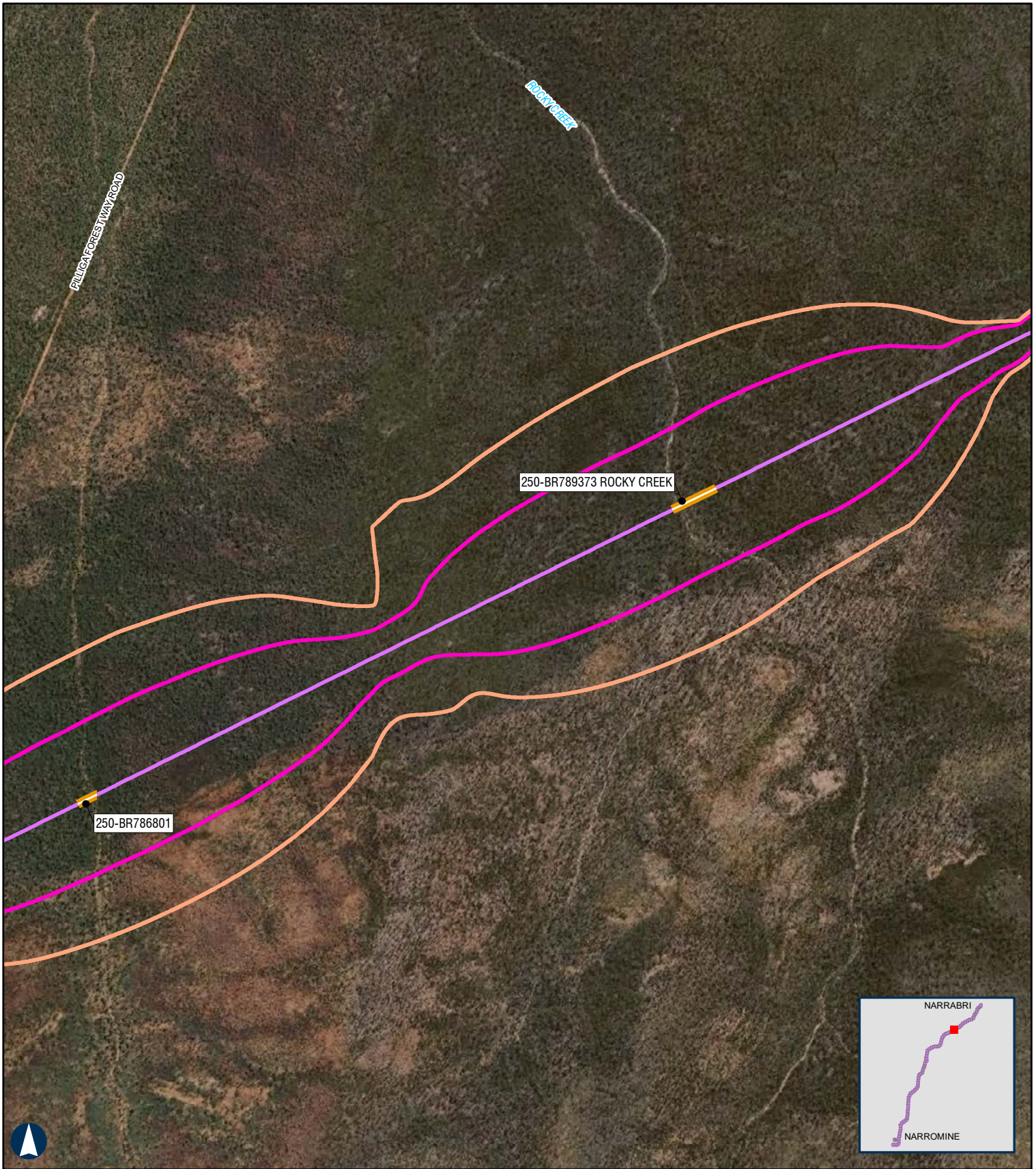
- Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 151 of 168

500 m

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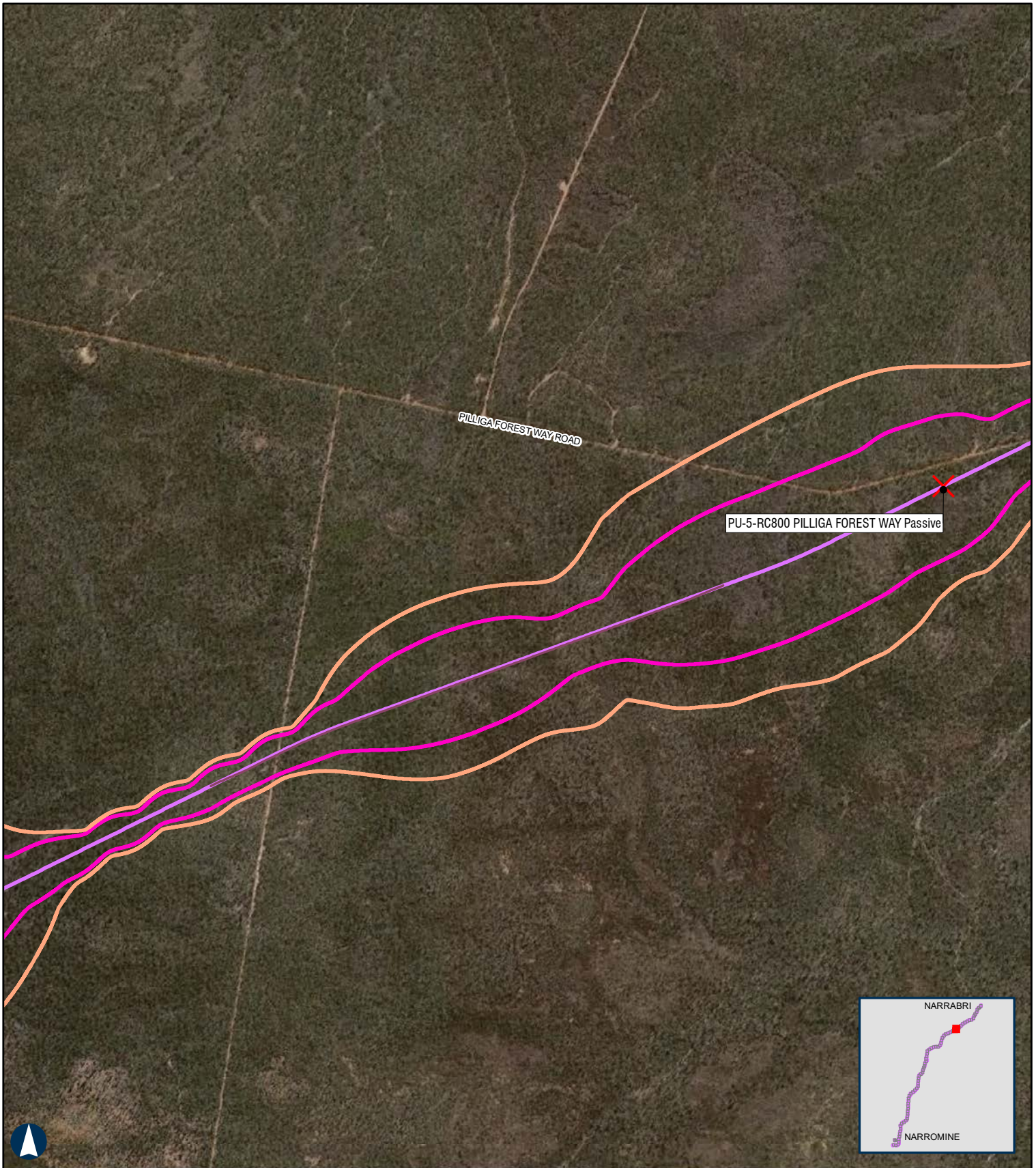
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 152 of 168

500 m

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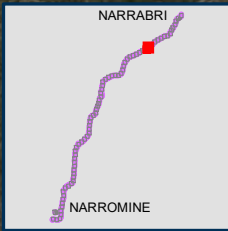
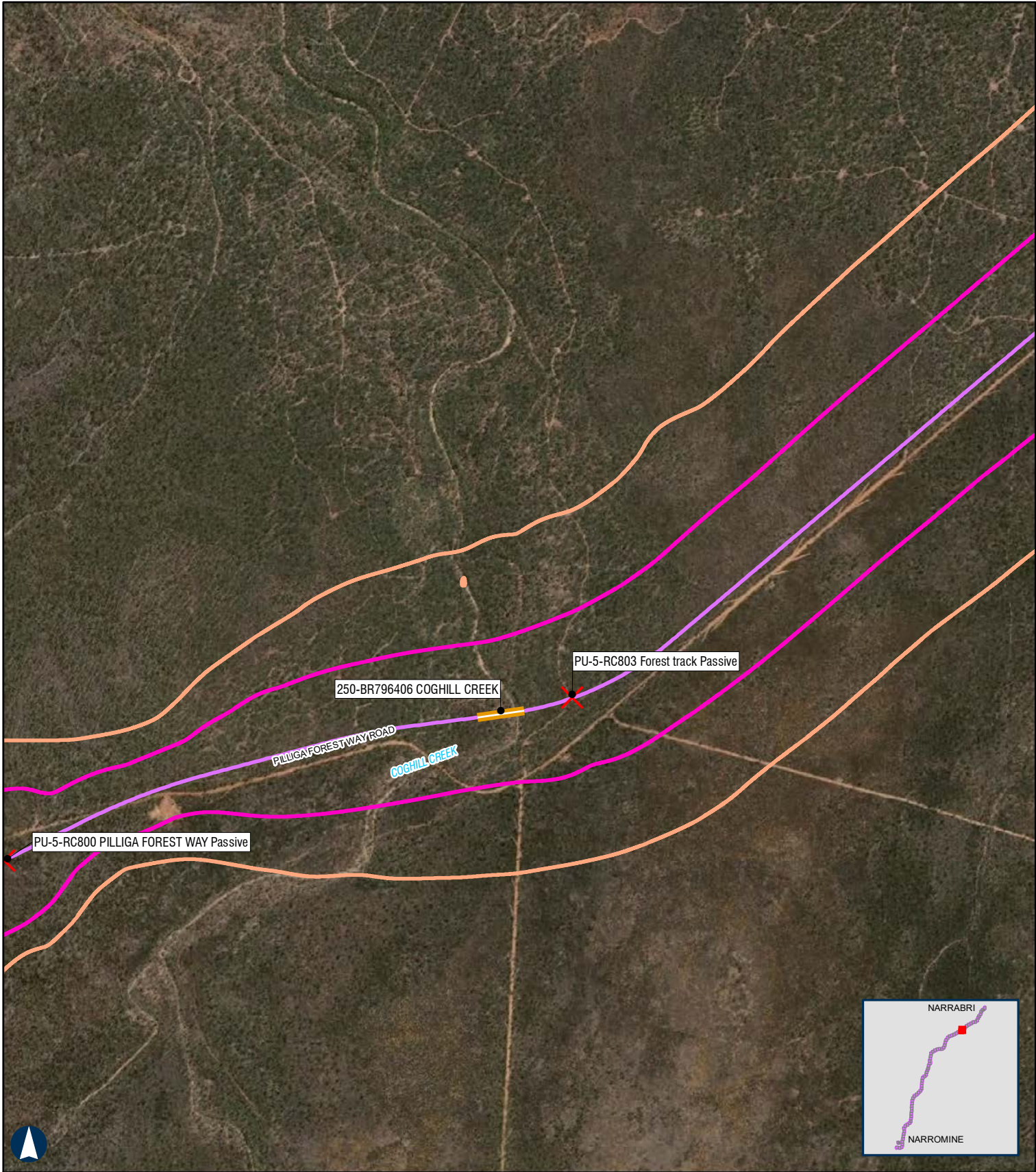
- Level Crossings
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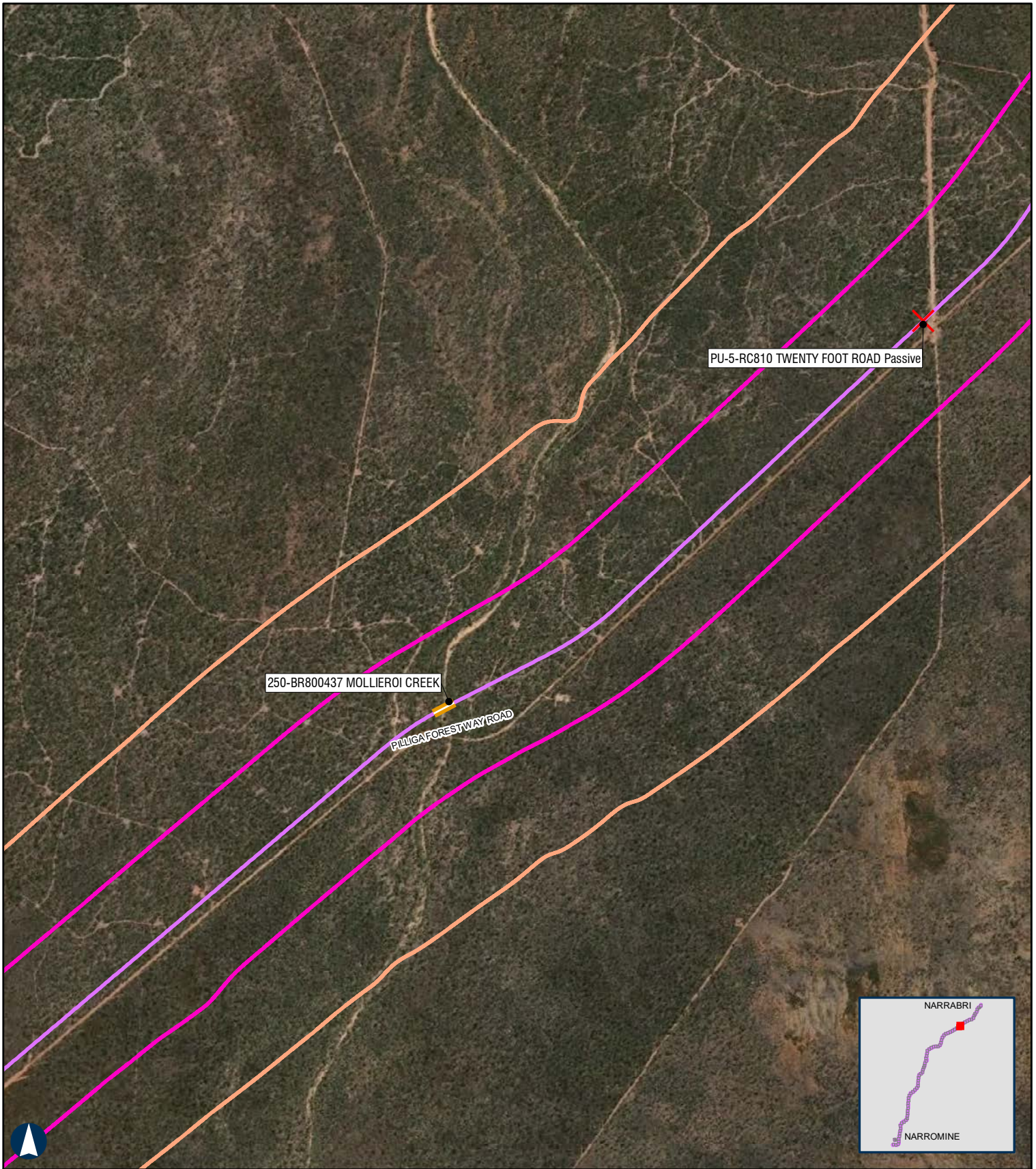
- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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NARROMINE TO NARRABRI		Year 2040 Night-time Rail Noise Levels	APPENDIX E - Map 153 of 168
<p>500 m</p> <p>Coordinate System: GDA 1994 MGA Zone 55</p> <p>ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.</p> <p>ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.</p> <p>Paper: A4 Date: 01-Sep-2020 Author: JG</p> <p>Scale: 1:20,000</p>		<p> Level Crossings</p> <p> Proposal Extent</p> <p> Crossing Loops</p> <p> Rail Alignment/Centreline</p> <p> Bridges and Viaducts</p> <p> Sensitive Receivers</p> <p> Noise Assessment Area – Upgrading Existing Railway</p> <p>Noise contours are based on a set distance above the local terrain level of 2.4m.</p> <p> Night-time noise criteria LAeq 9hr 55dBA new rail corridor</p> <p> Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor</p> <p> Night-time noise criteria LA max 80dBA new rail corridor</p> <p> Night-time noise criteria LA max 85dBA upgrading existing rail corridor</p>	<p>ARTC </p> <p>The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation, in partnership with the private sector.</p>



NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 154 of 168

500 m

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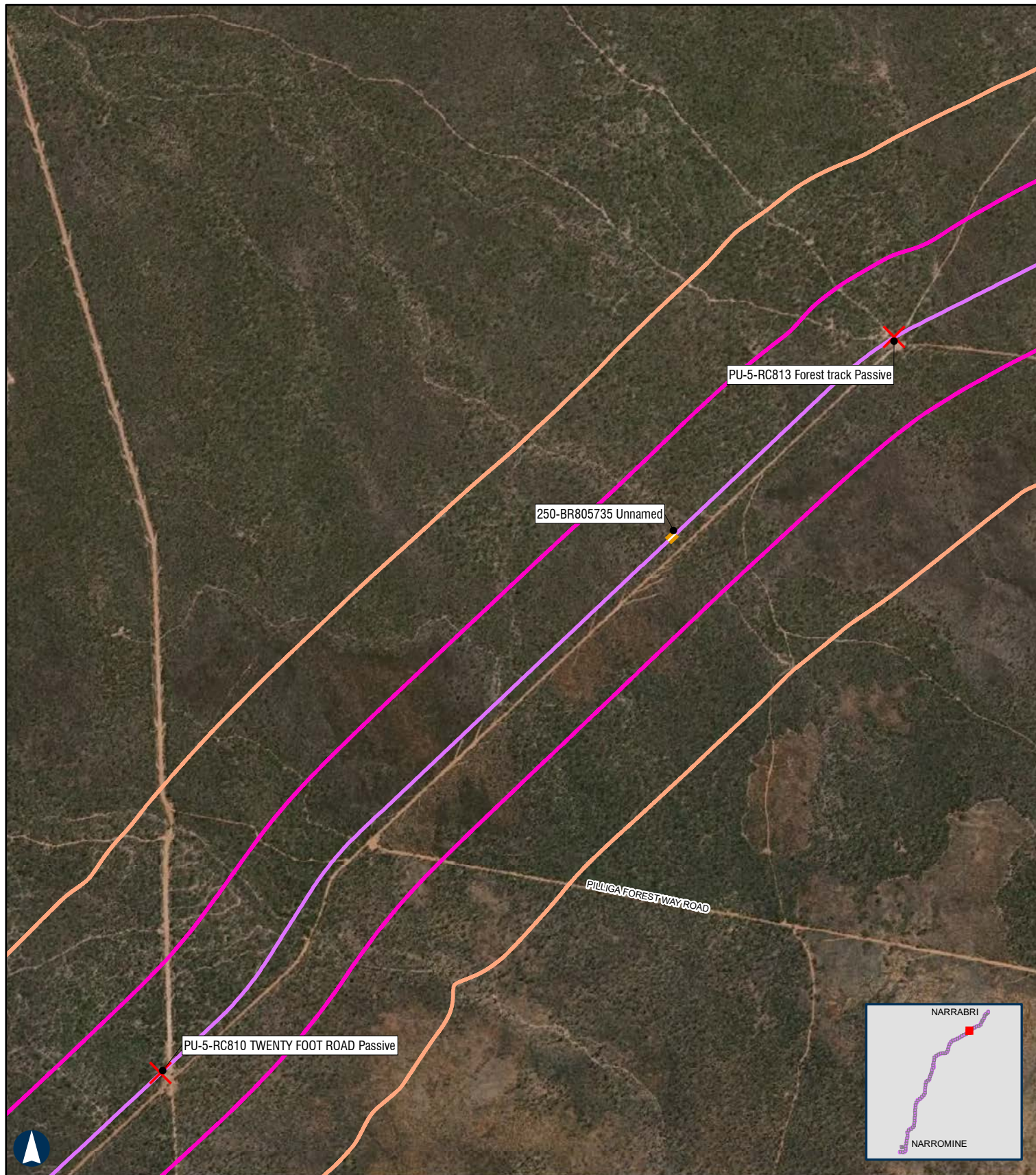
- X Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 155 of 168

500 m

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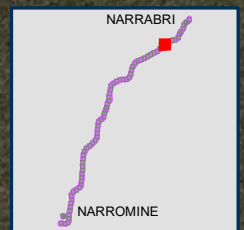
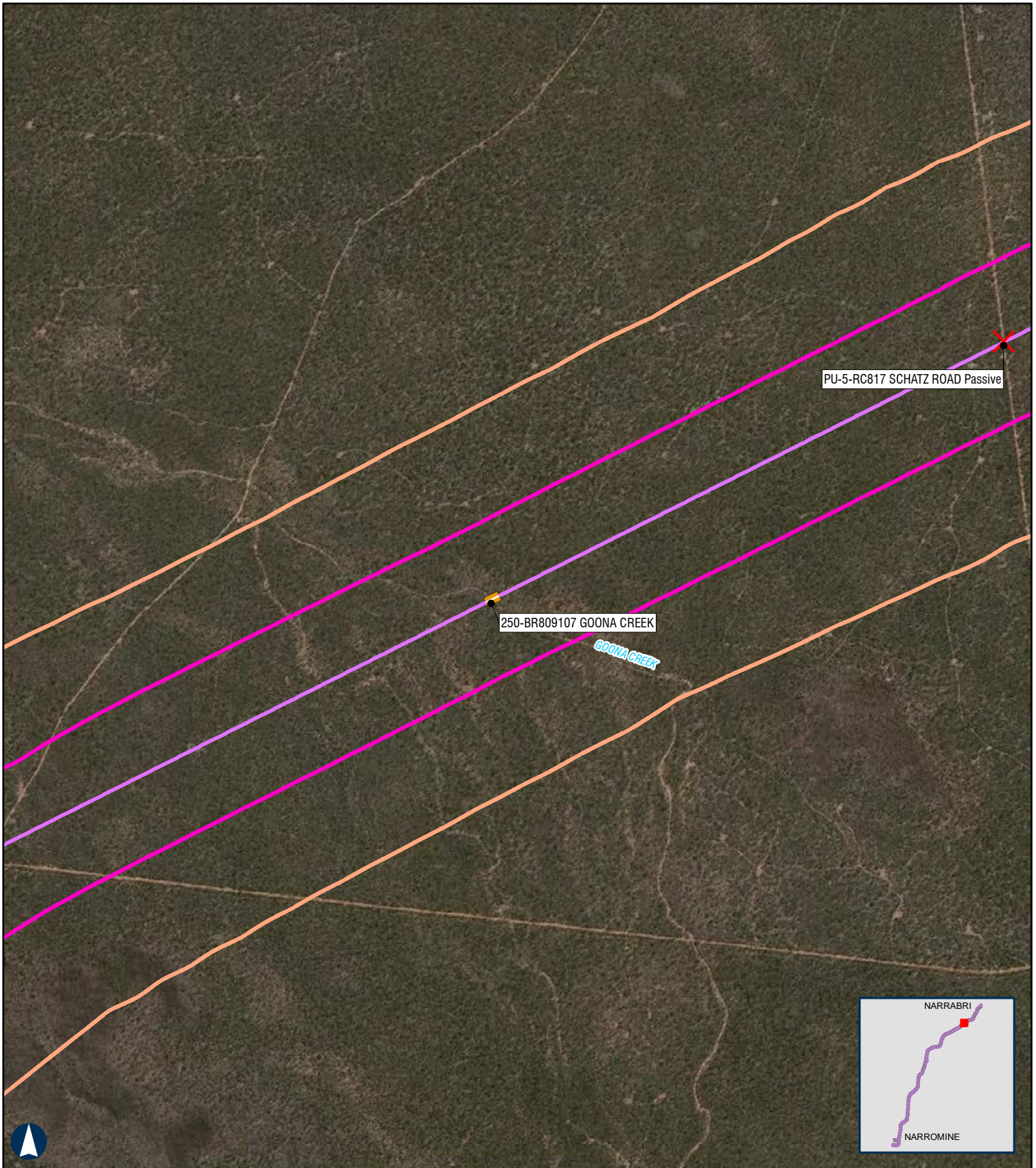
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 156 of 168

500 m

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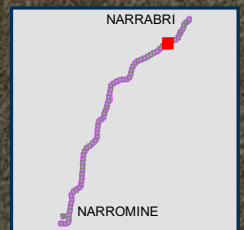
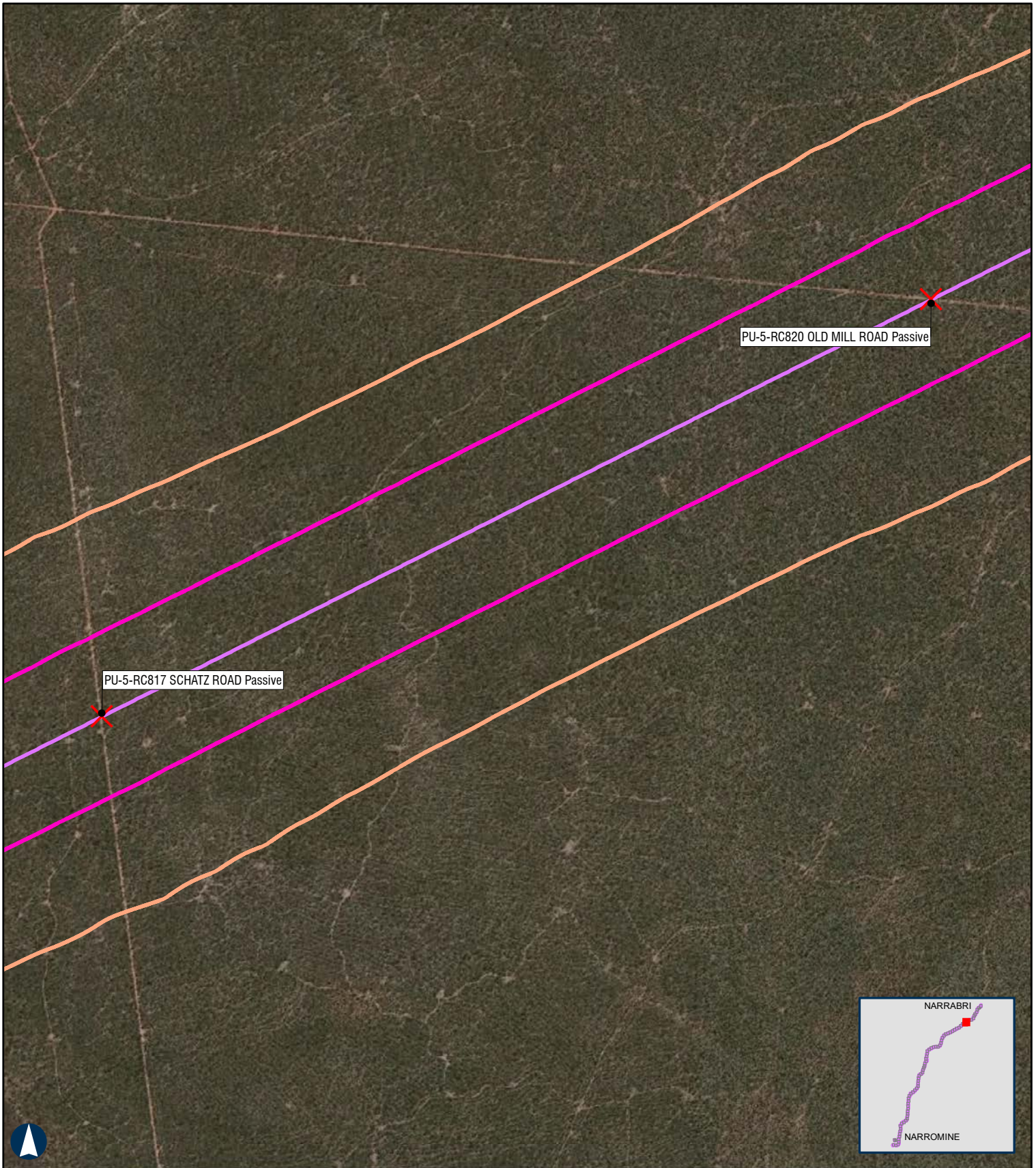
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 157 of 168

500 m

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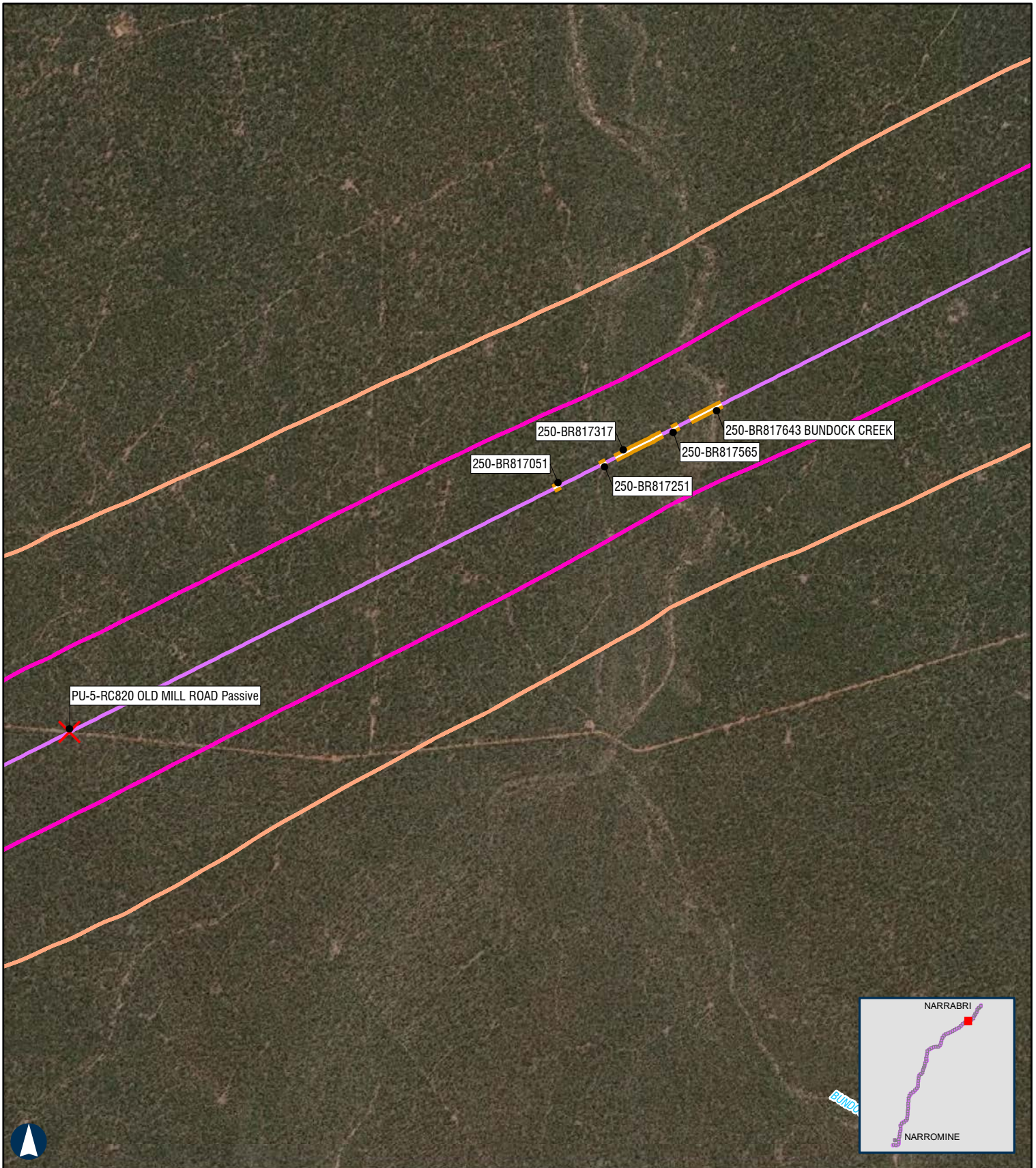
- Level Crossings
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 158 of 168

500 m

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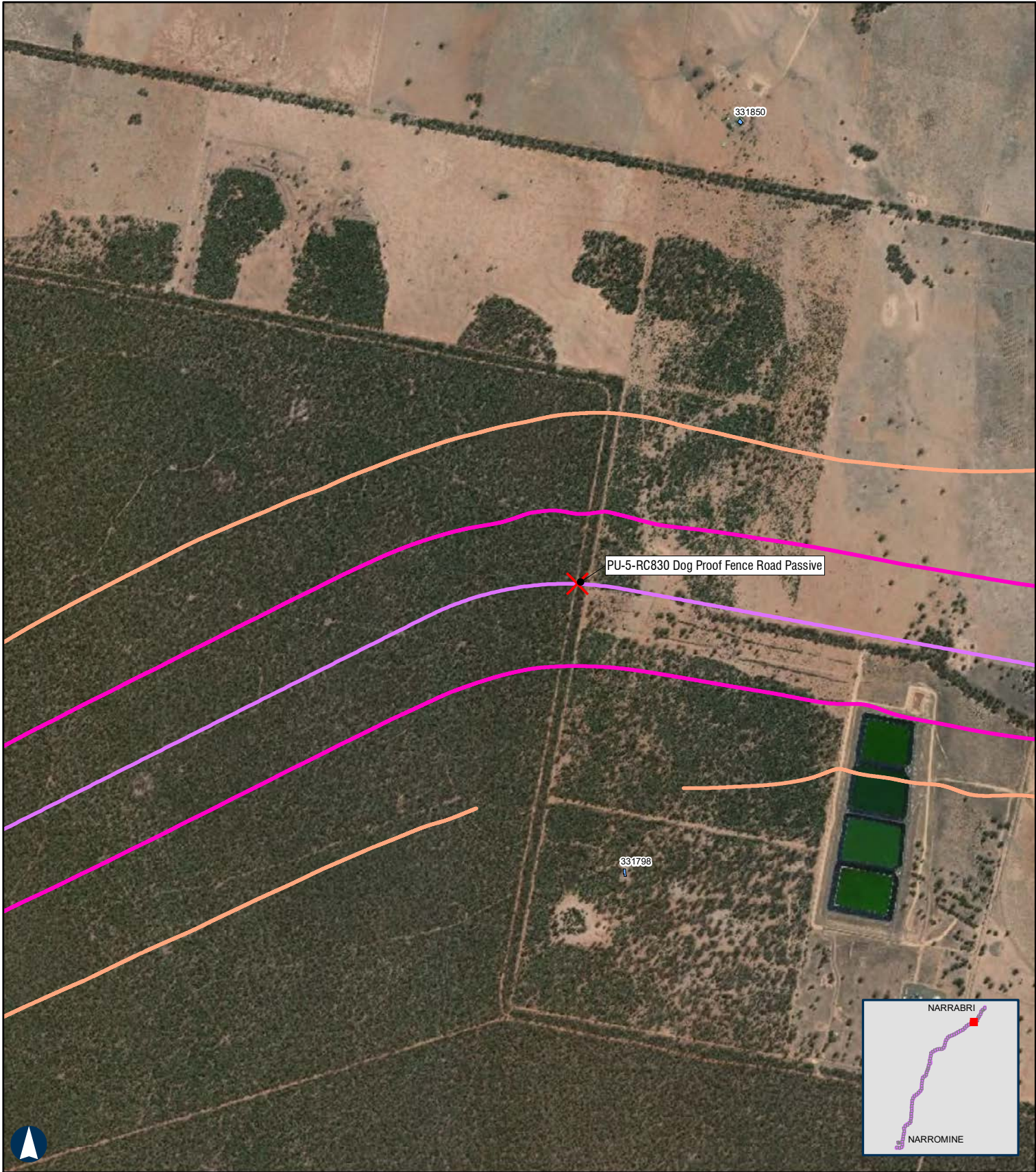
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 159 of 168

500 m

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✕

Level Crossings

—

Proposal Extent

—

Crossing Loops

—

Rail Alignment/Centreline

—

Bridges and Viaducts

■

Sensitive Receivers

■

Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

—

Night-time noise criteria LAeq 9hr 55dBA new rail corridor

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Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor

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Night-time noise criteria LA max 80dBA new rail corridor

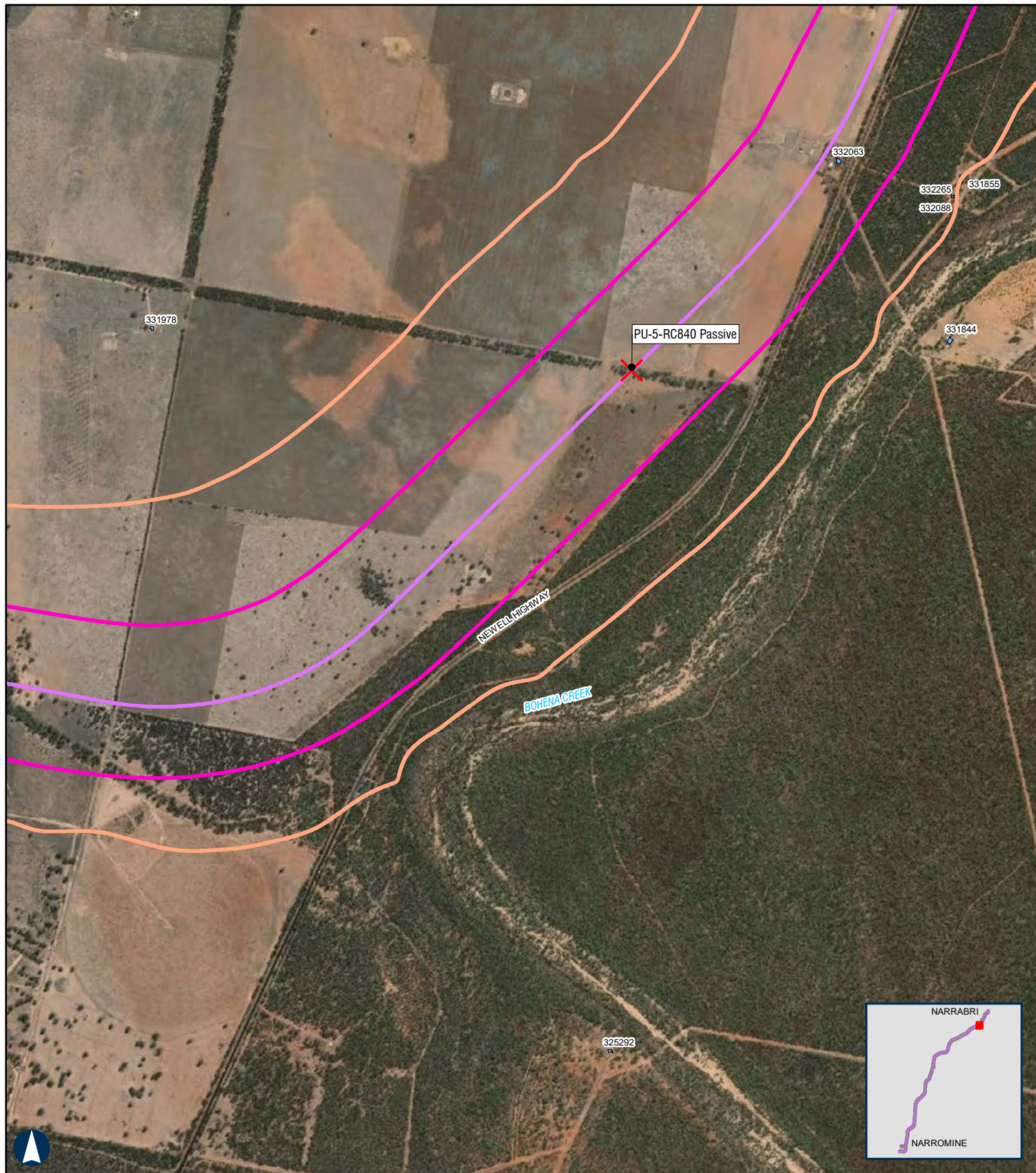
—

Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 160 of 168

500 m

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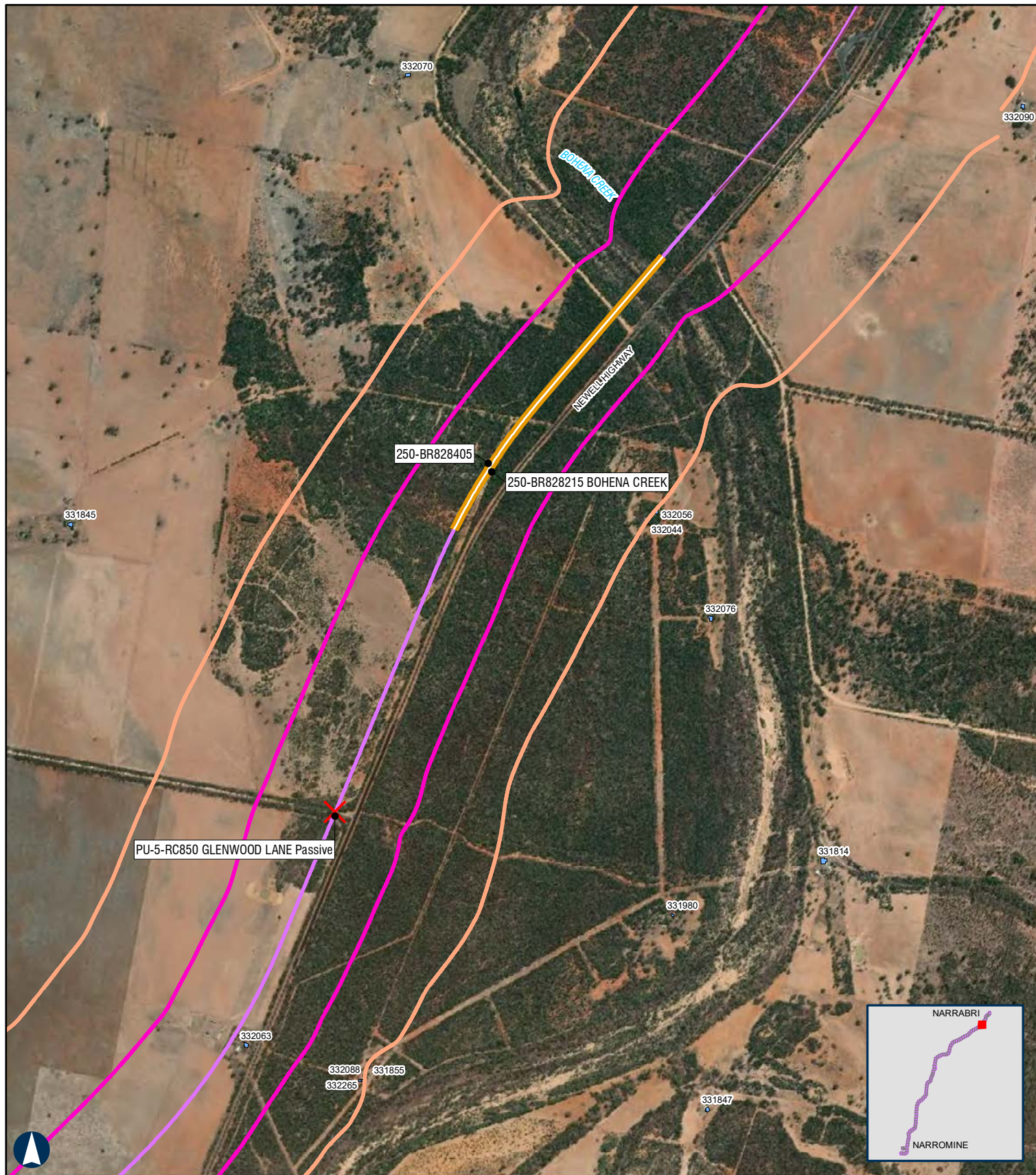
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 161 of 168

500 m

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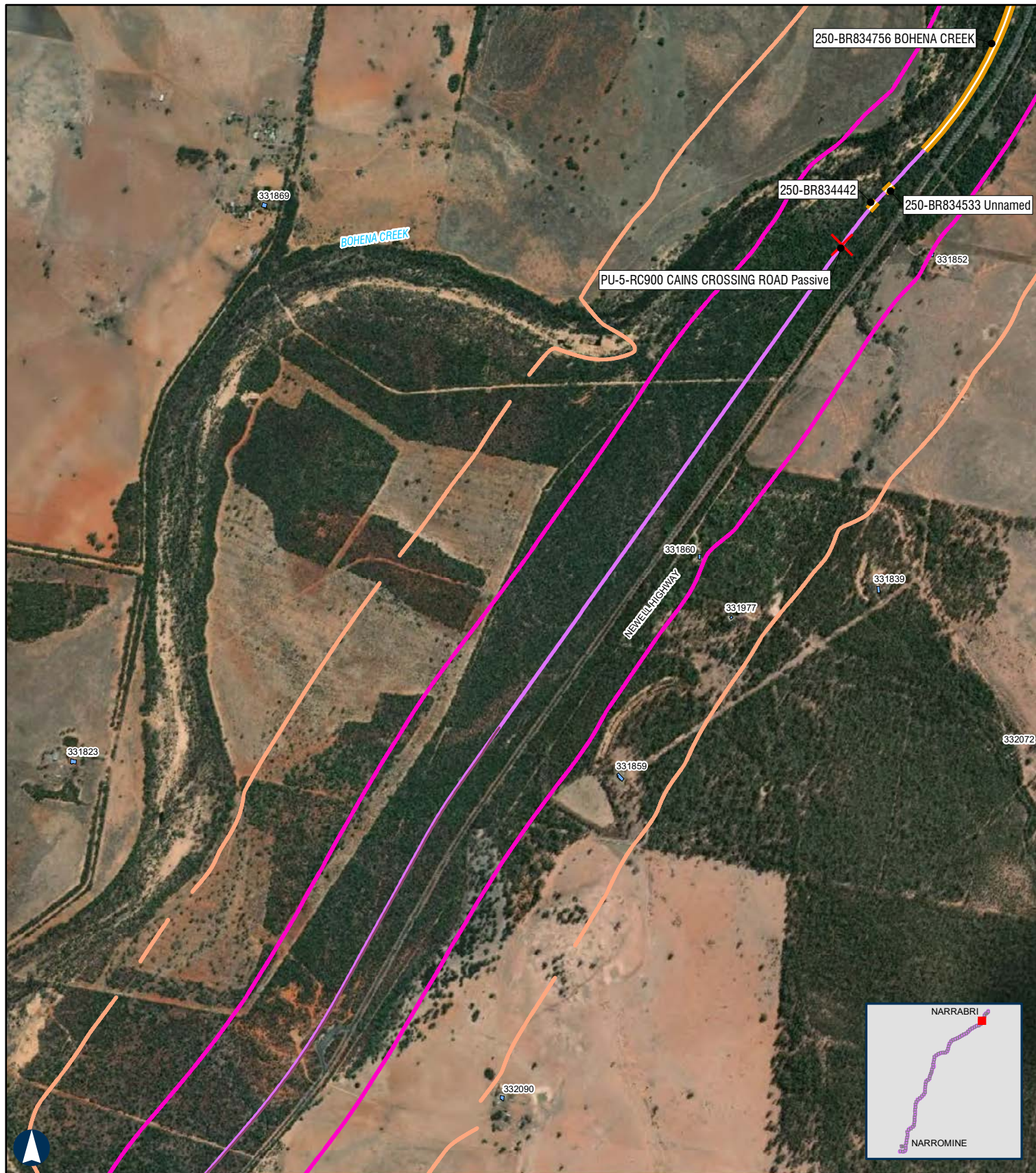
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 162 of 168

500 m

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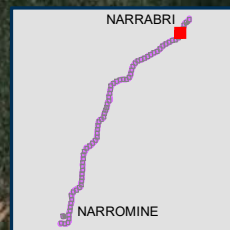
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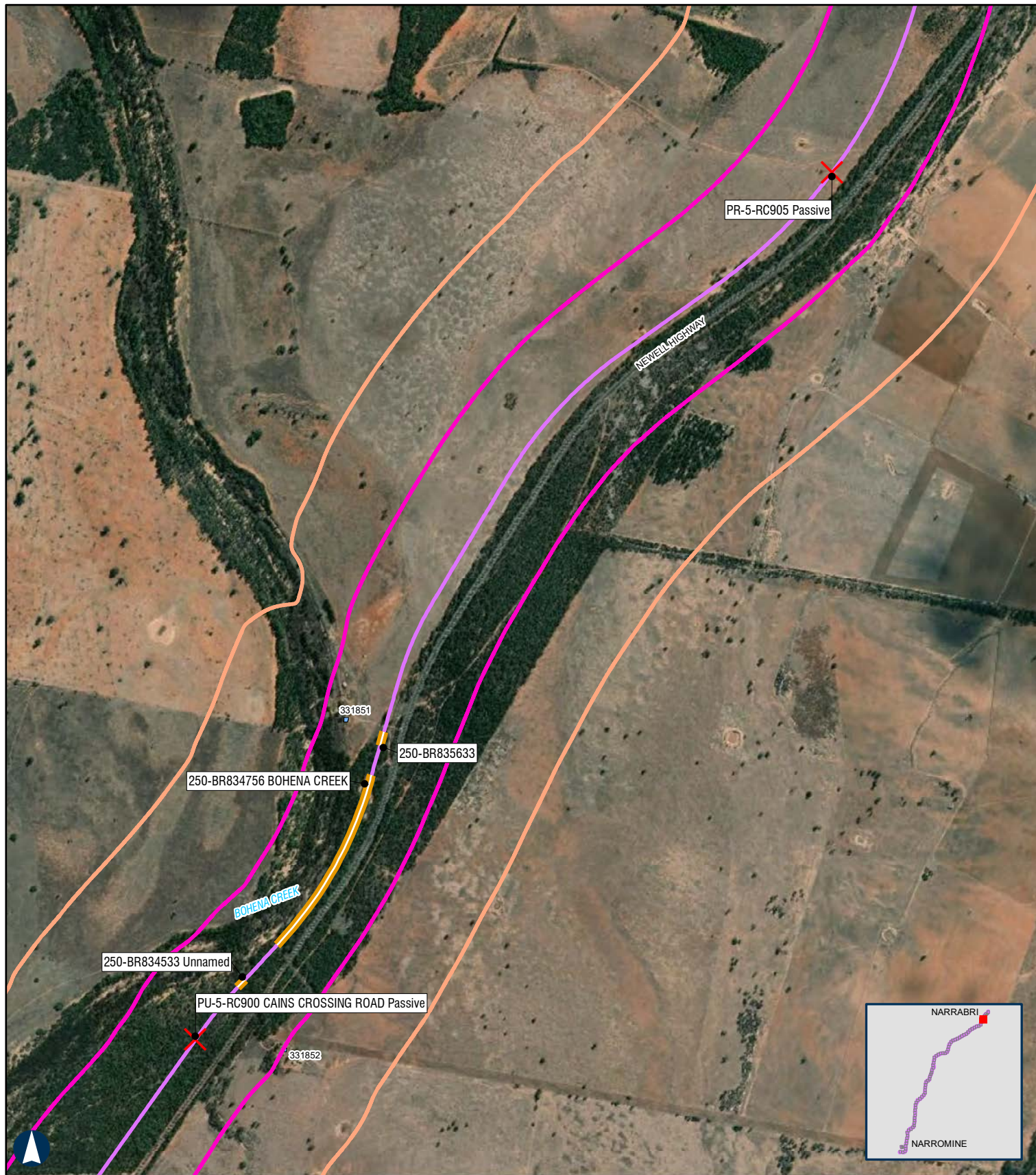
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 163 of 168

500 m

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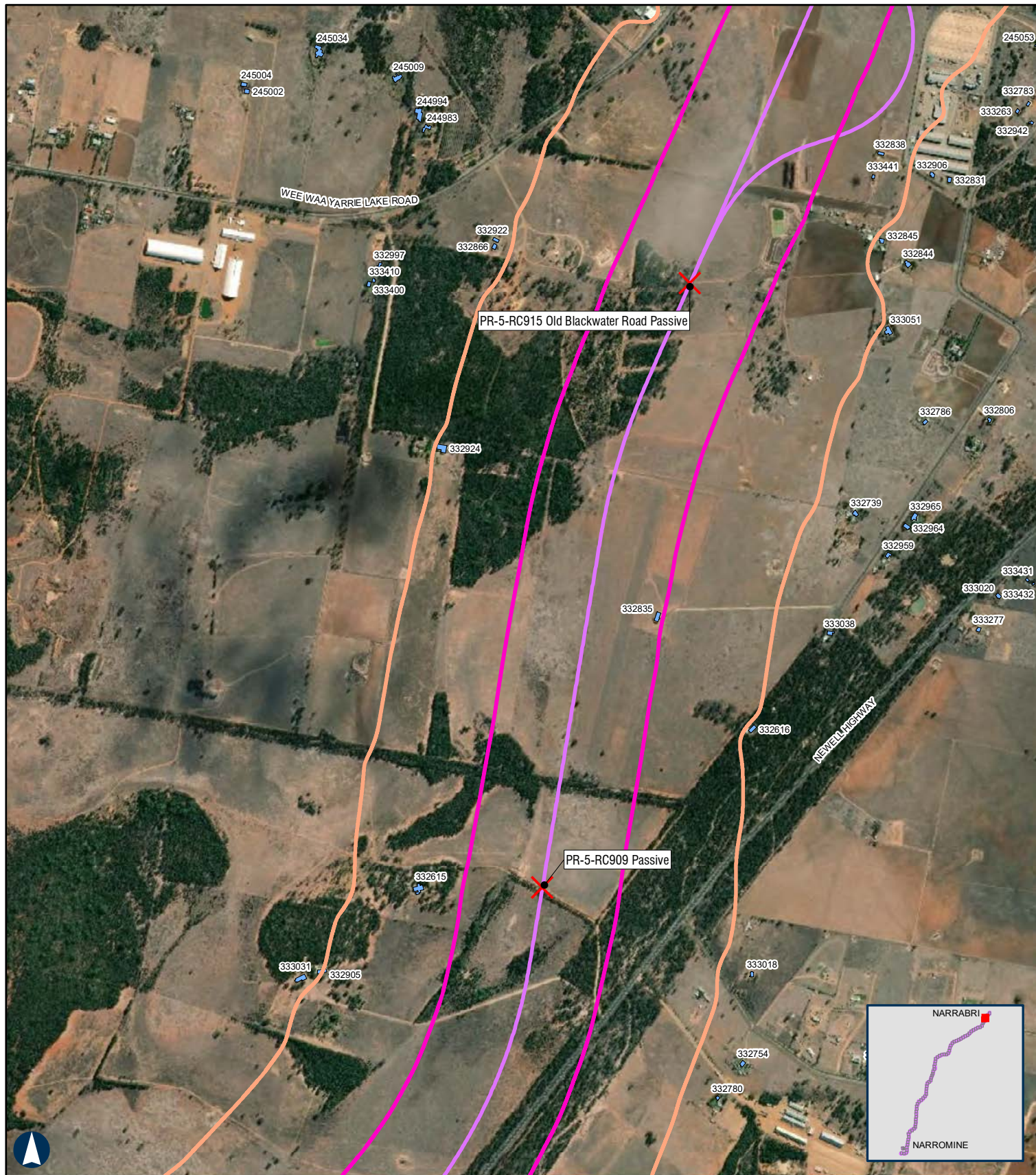
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 164 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 01-Sep-2020

Author: JG

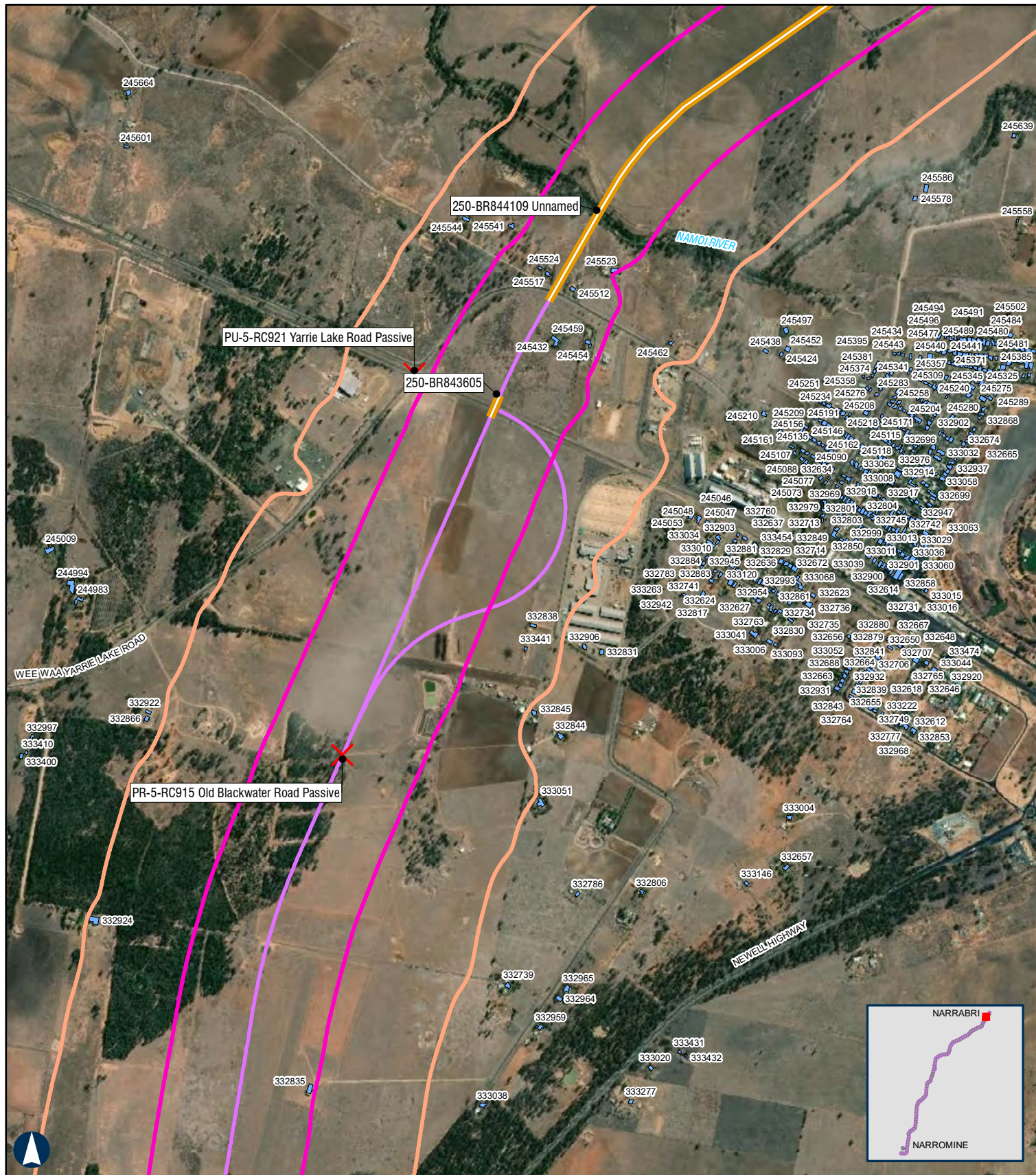
- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

Noise contours are based on a set distance above the local terrain level of 2.4m.

- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

ARTC **InlandRail**

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



NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 165 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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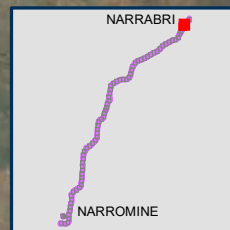
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Date: 01-Sep-2020
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

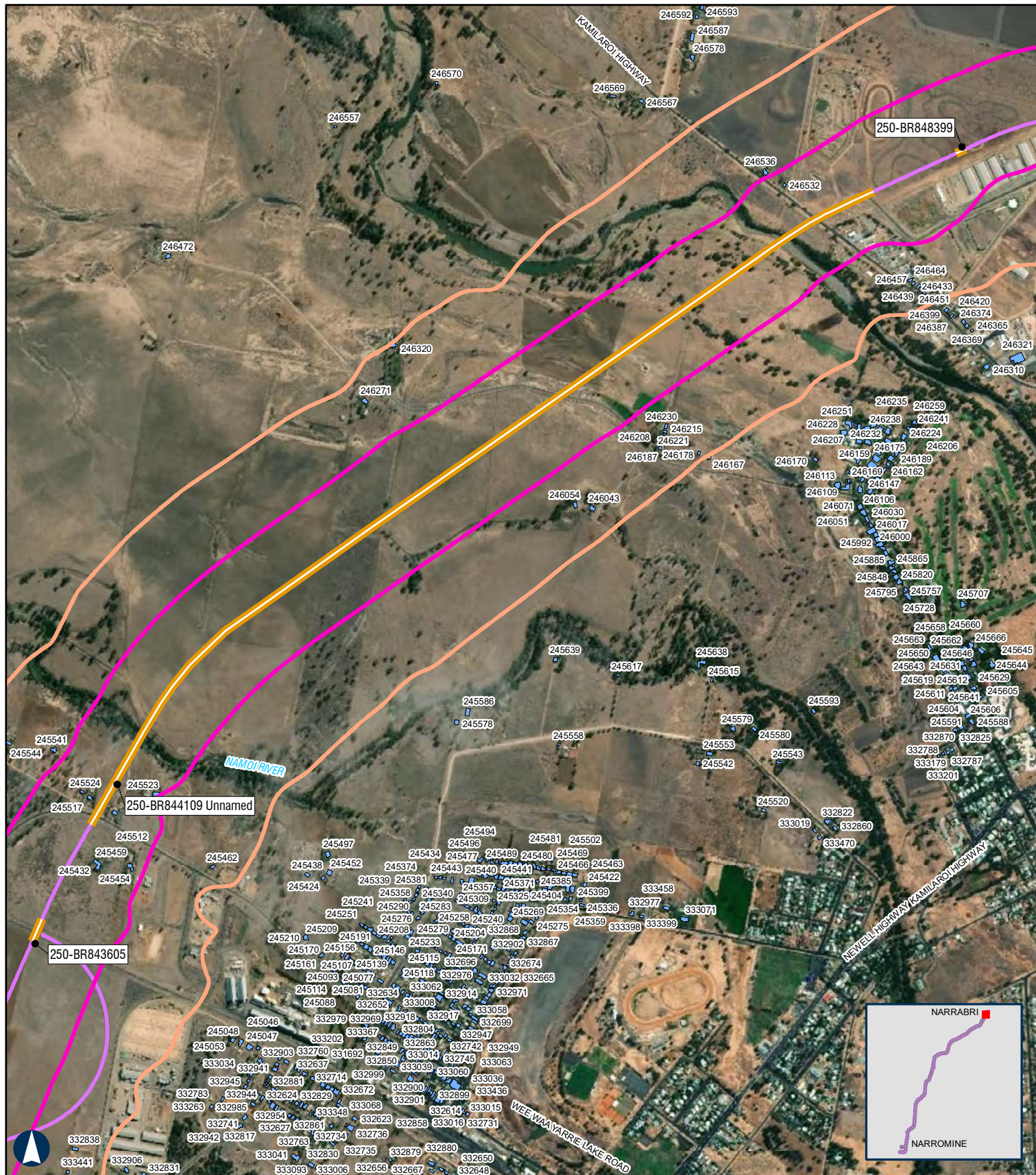
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 166 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Scale: 1:20,000

Date: 01-Sep-2020

Author: JG

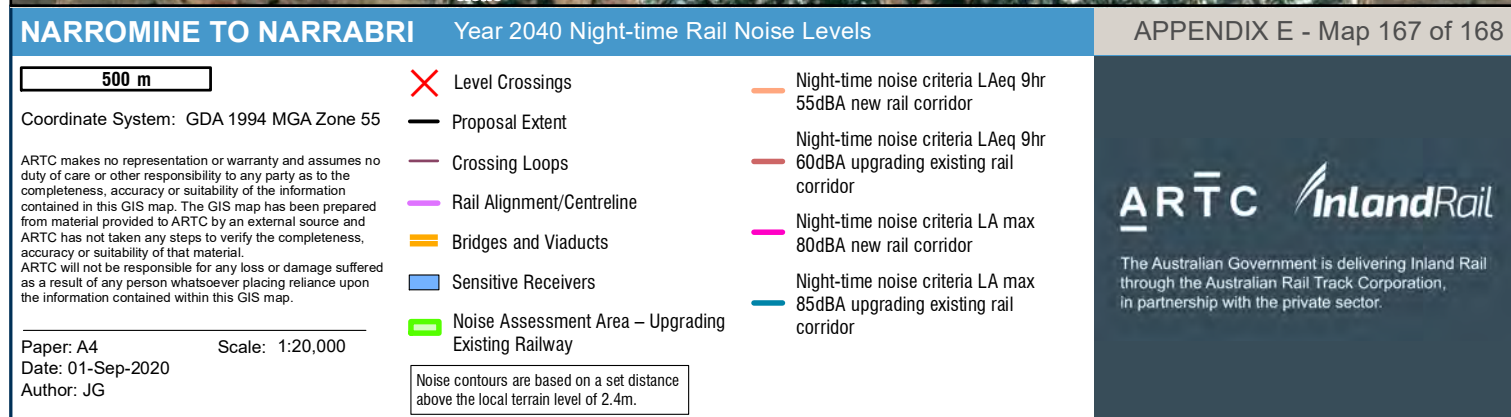
- ✗ Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

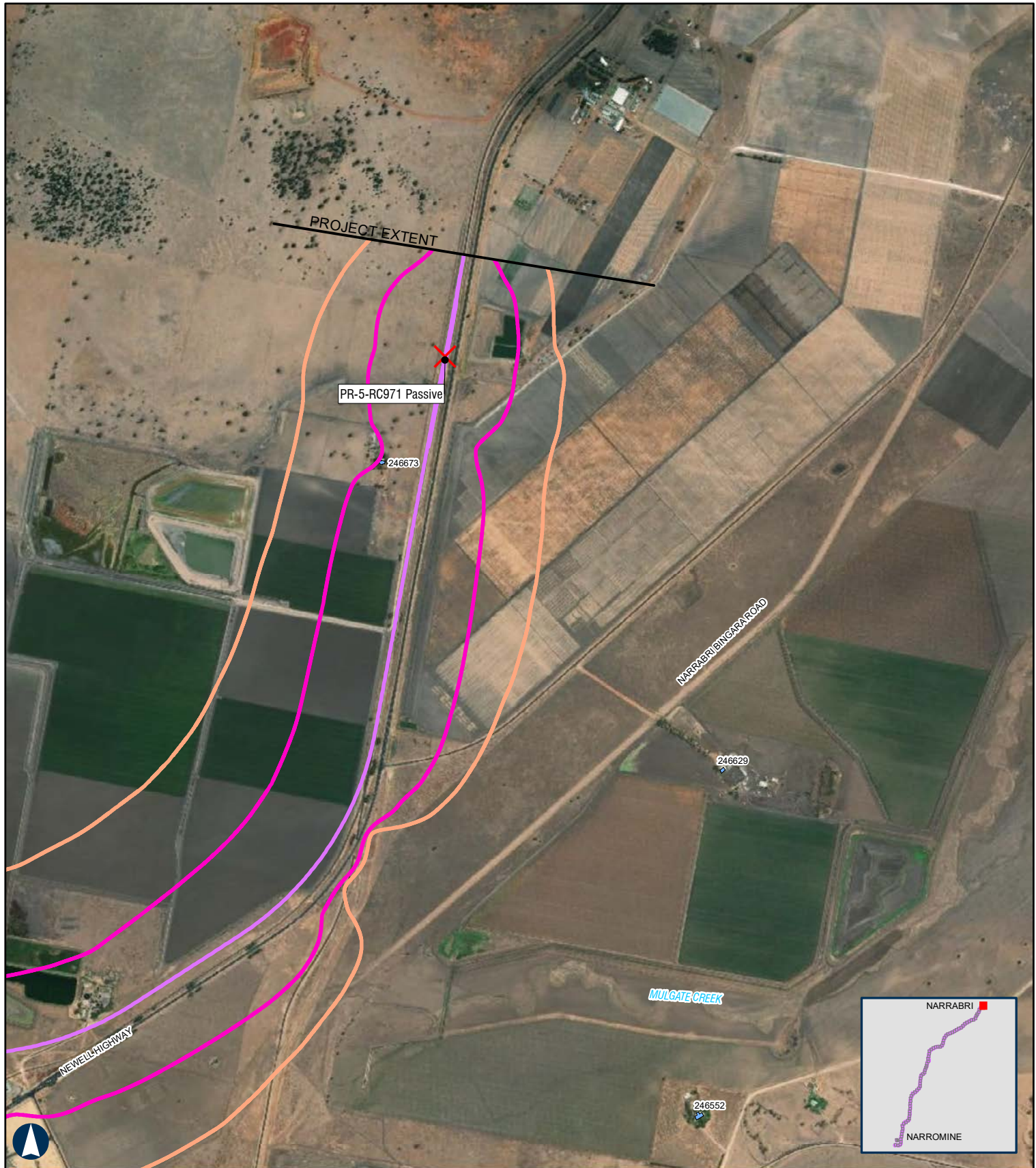
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 168 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4
Date: 01-Sep-2020
Author: JG

Scale: 1:20,000

- X Level Crossings
- Proposal Extent
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