TECHNICAL REPORT

9

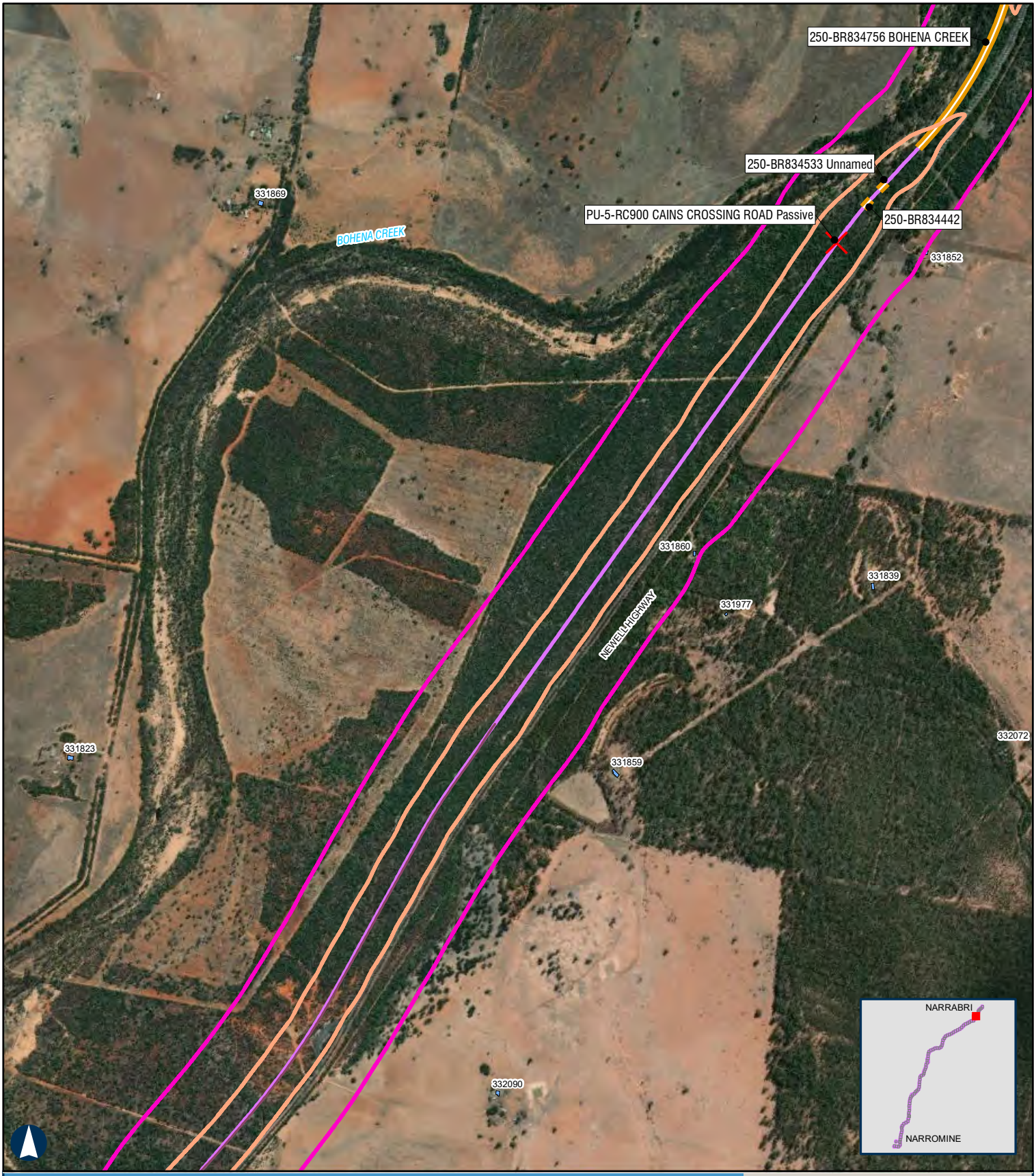
# Noise and vibration assessment – operational rail

PART 4 OF 4

Appendix E continued...

**NARROMINE TO NARRABRI** ENVIRONMENTAL IMPACT STATEMENT

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



Paper: A4 Scale: 1:20,000
Date: 31-Jul-2020
Author: JG

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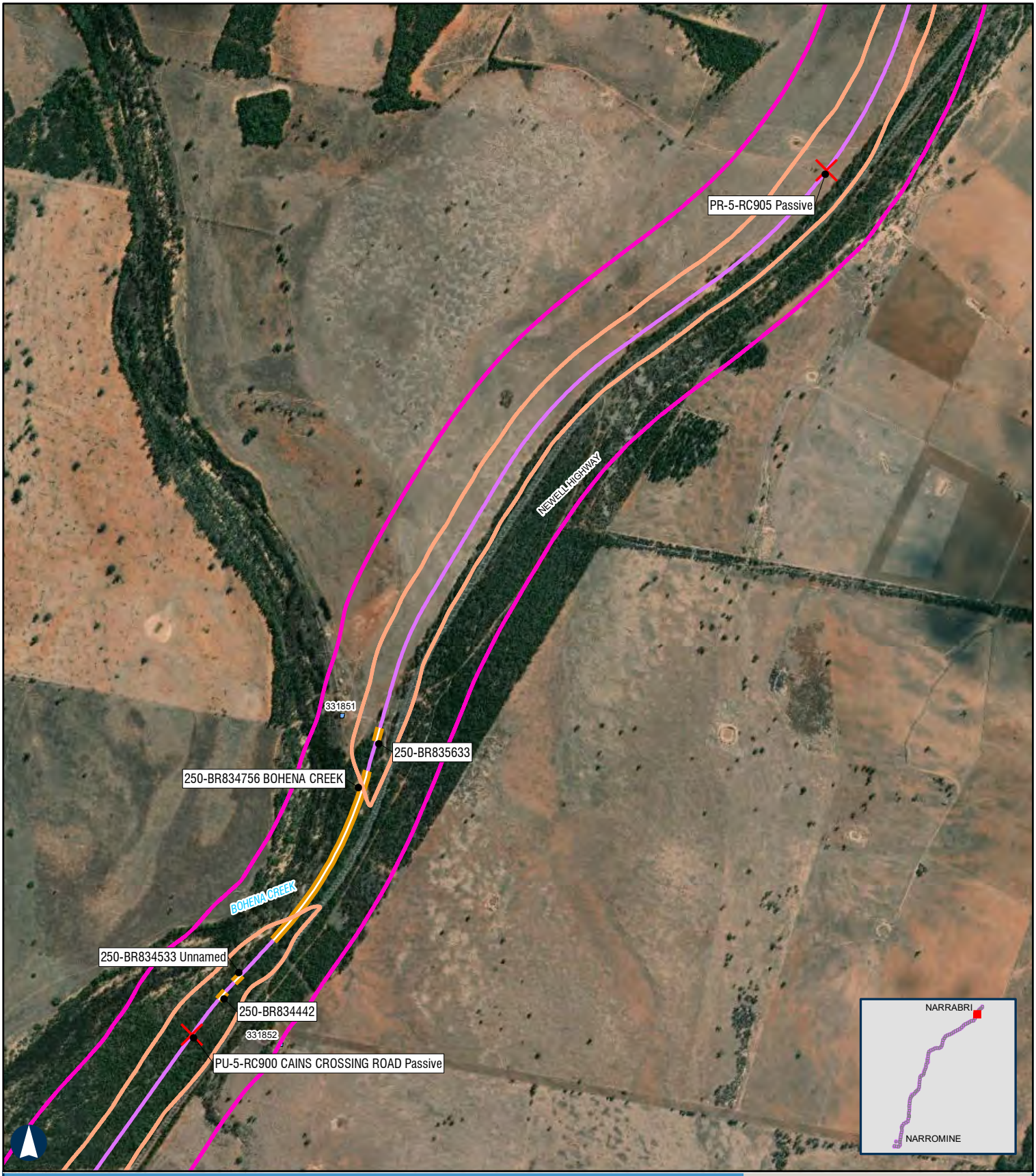
Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 79 of 168

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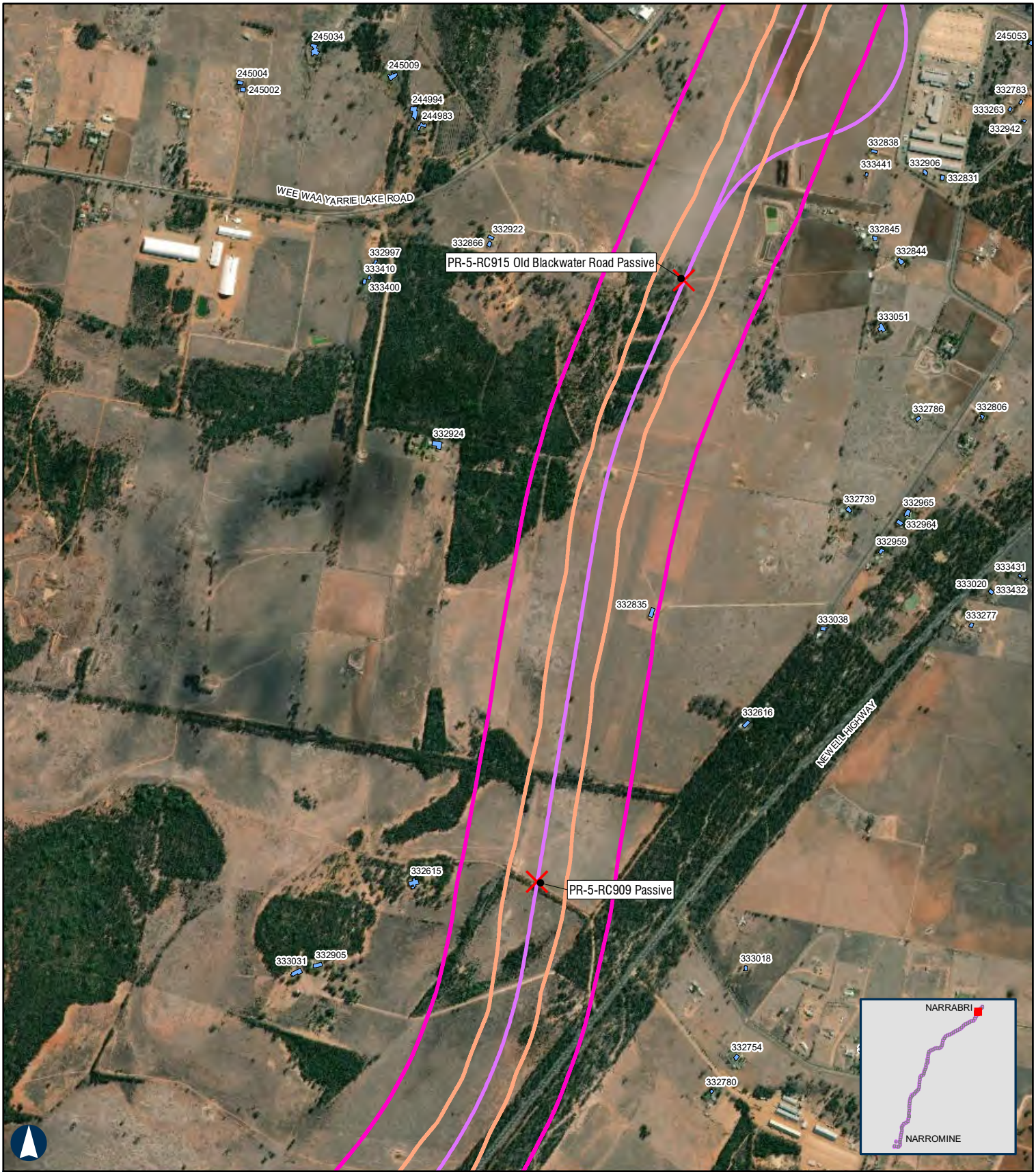


# NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 80 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 31-Jul-2020
Author: JG

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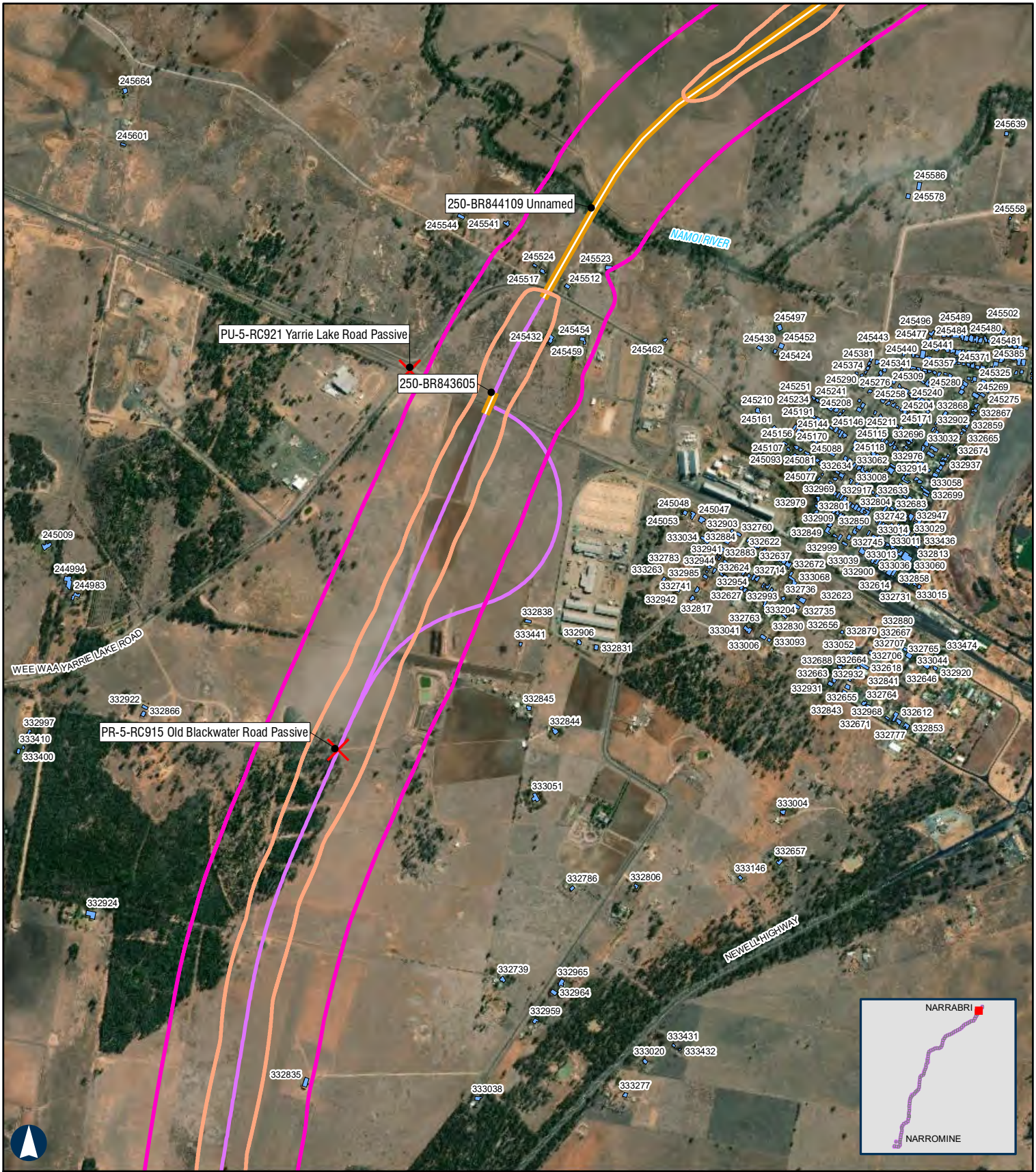


# NARROMINE TO NARRABRI

## Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 81 of 168

500 m

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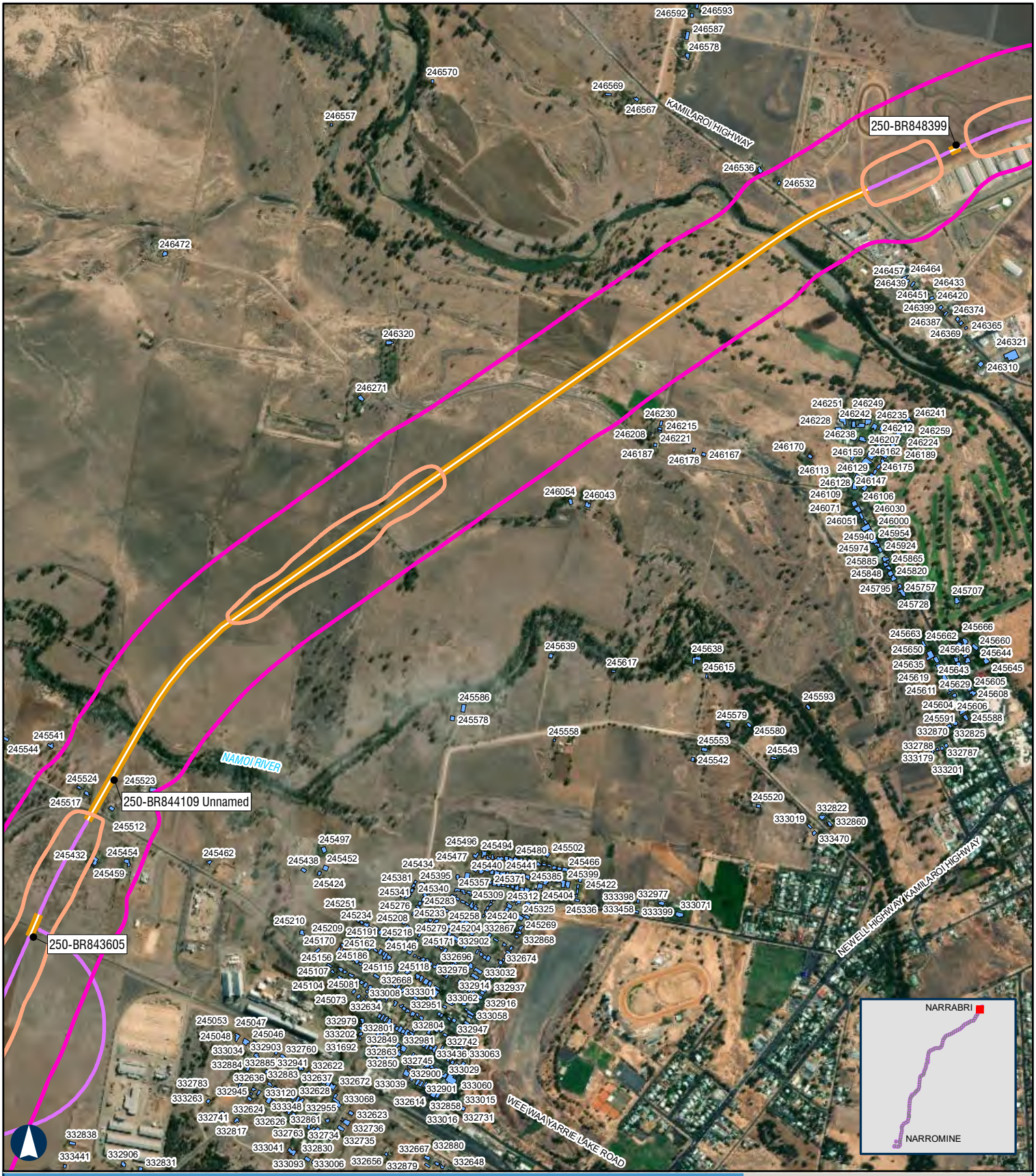


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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 82 of 168

500 m

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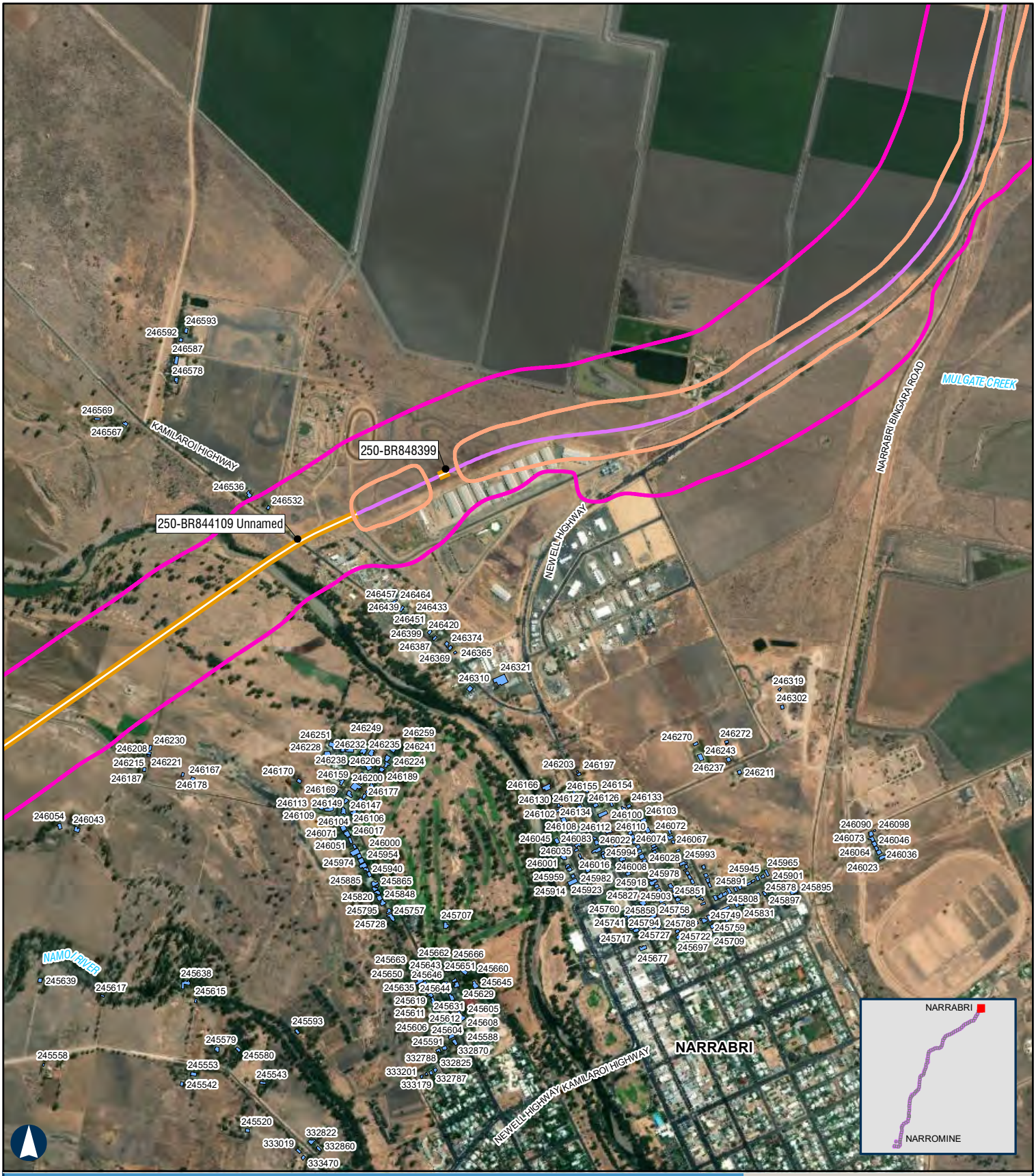


# NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 83 of 168

500 m

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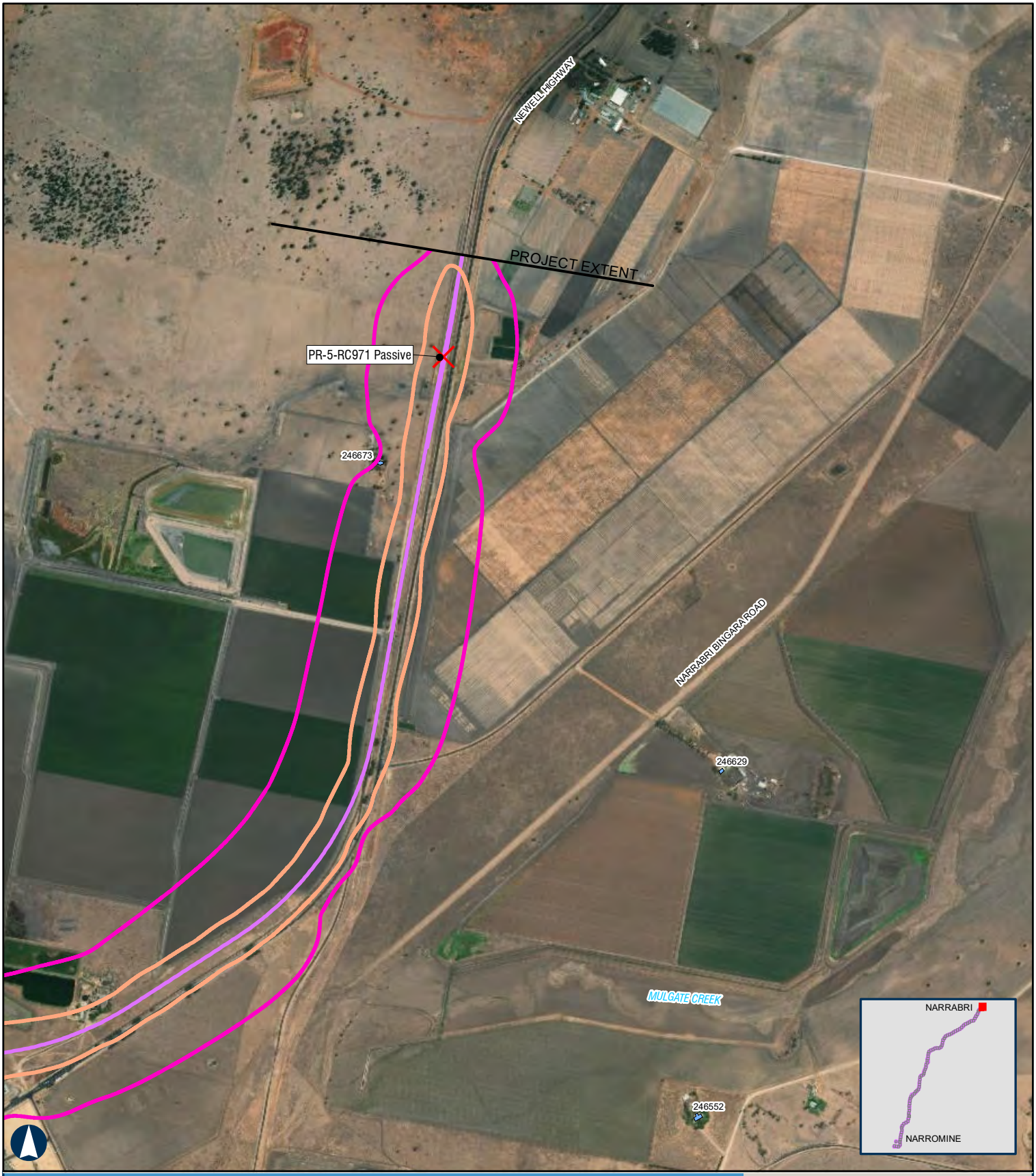


# NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 84 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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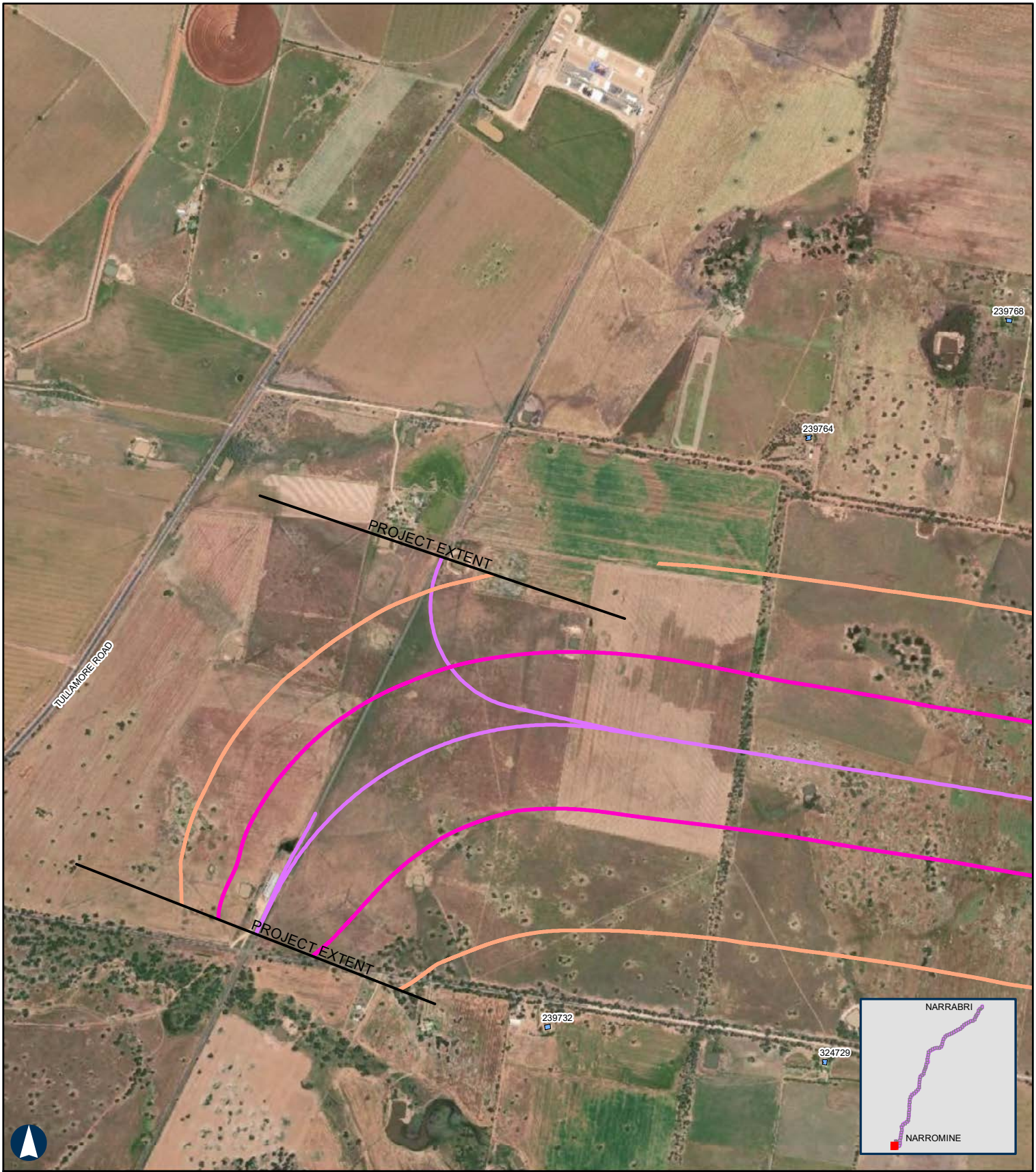


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 85 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 86 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
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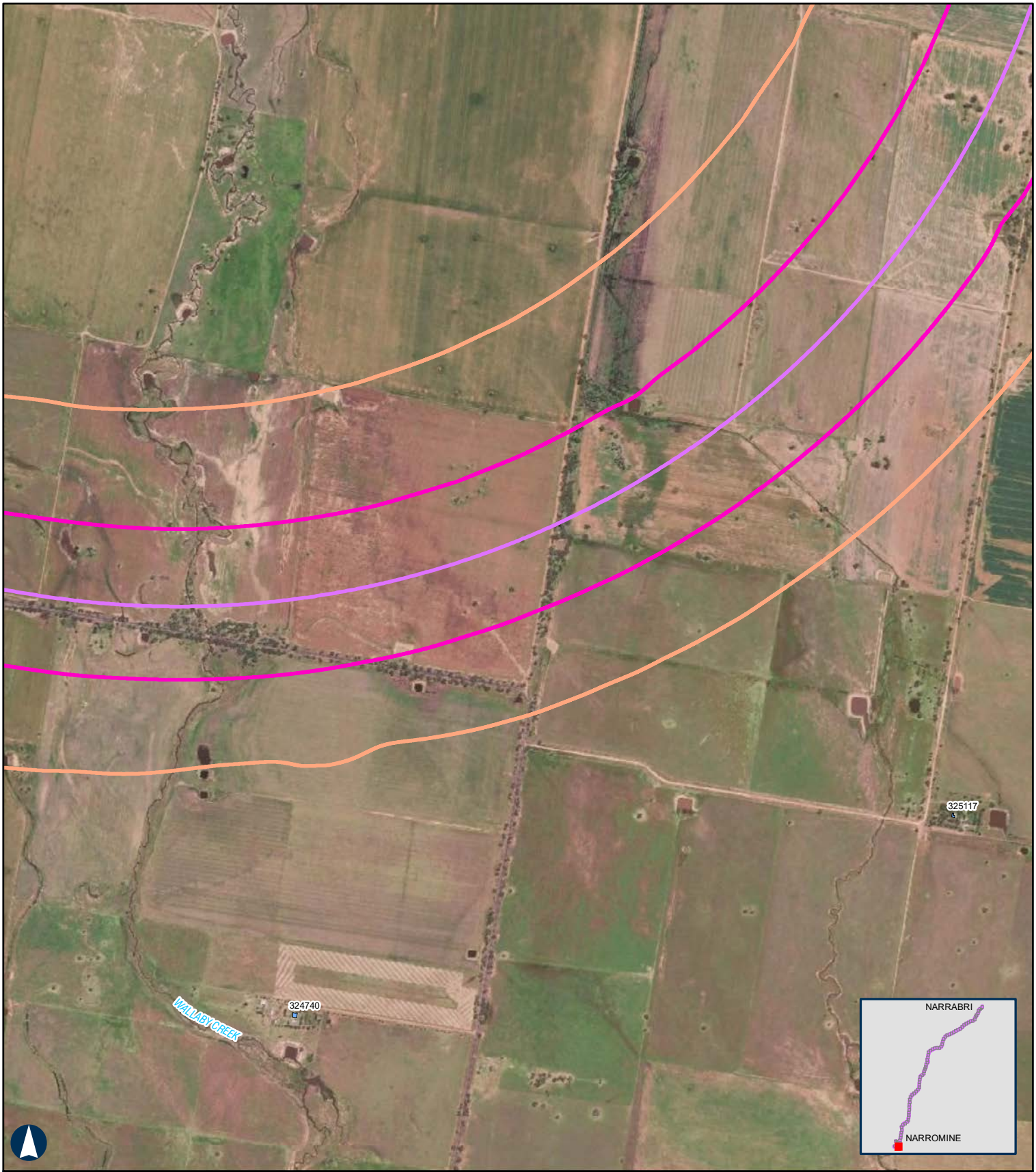


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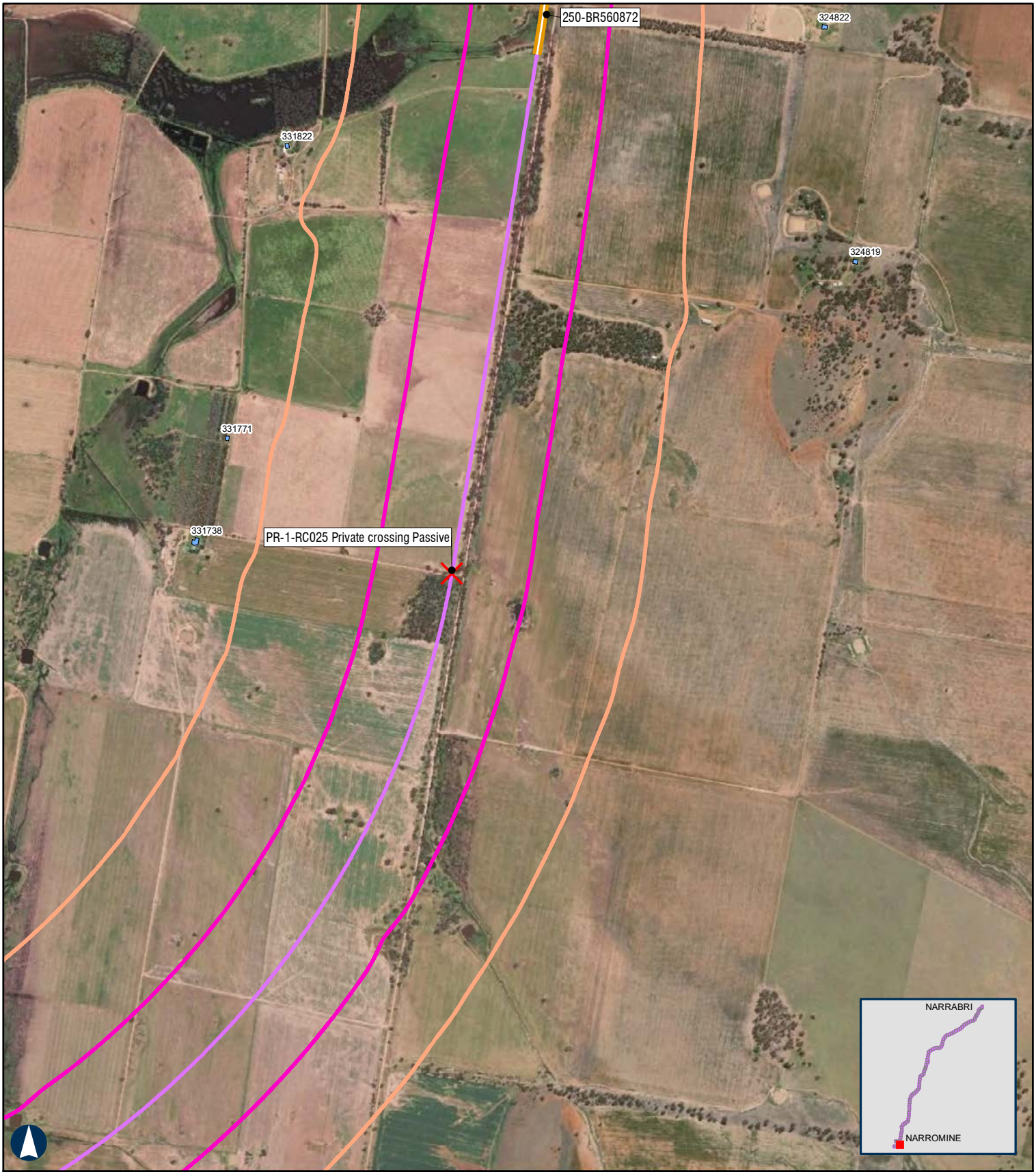


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 88 of 168

500 m

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Paper: A4 Scale: 1:20,000
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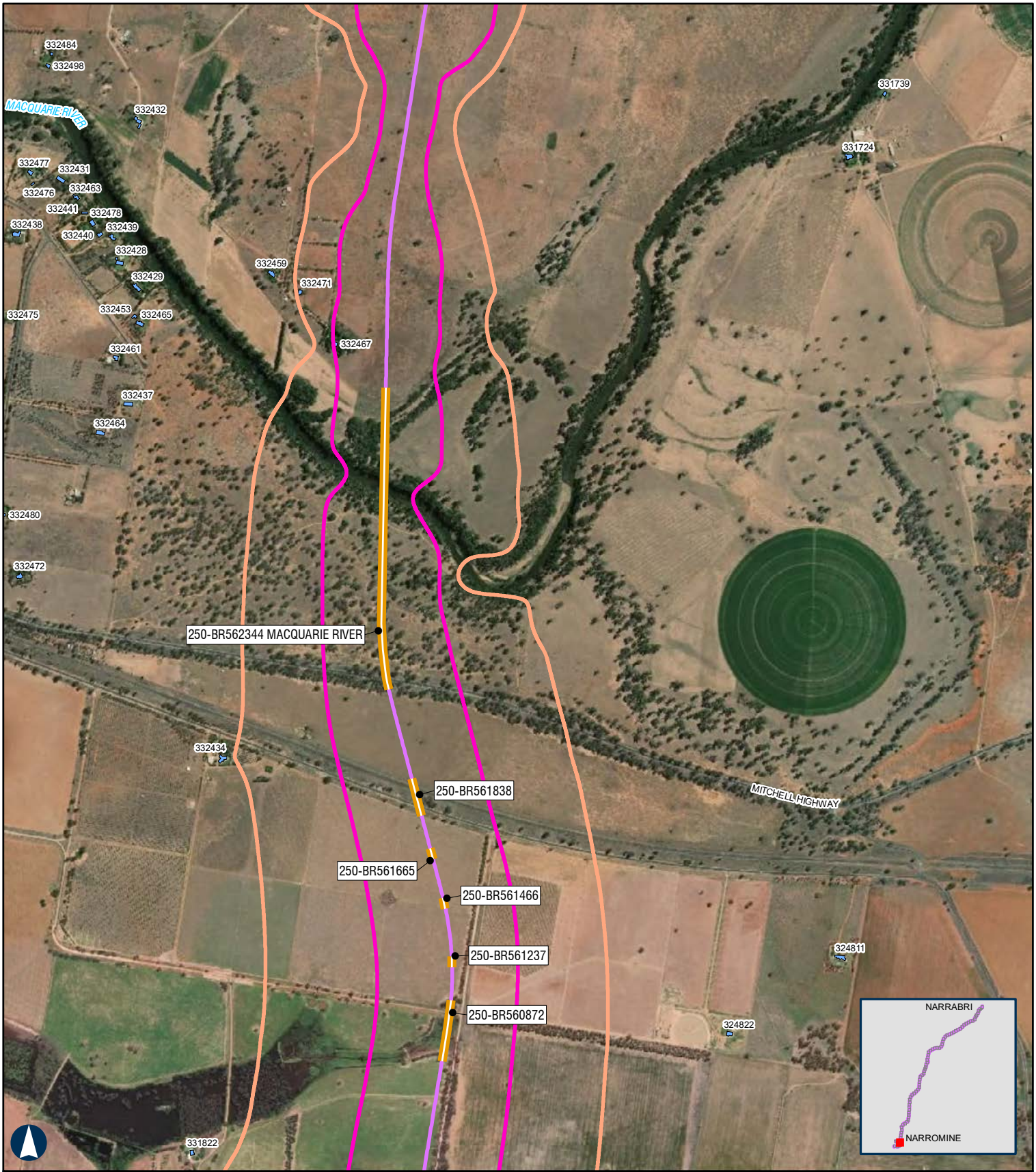


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Year 2040 Night-time Rail Noise Levels

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500 m

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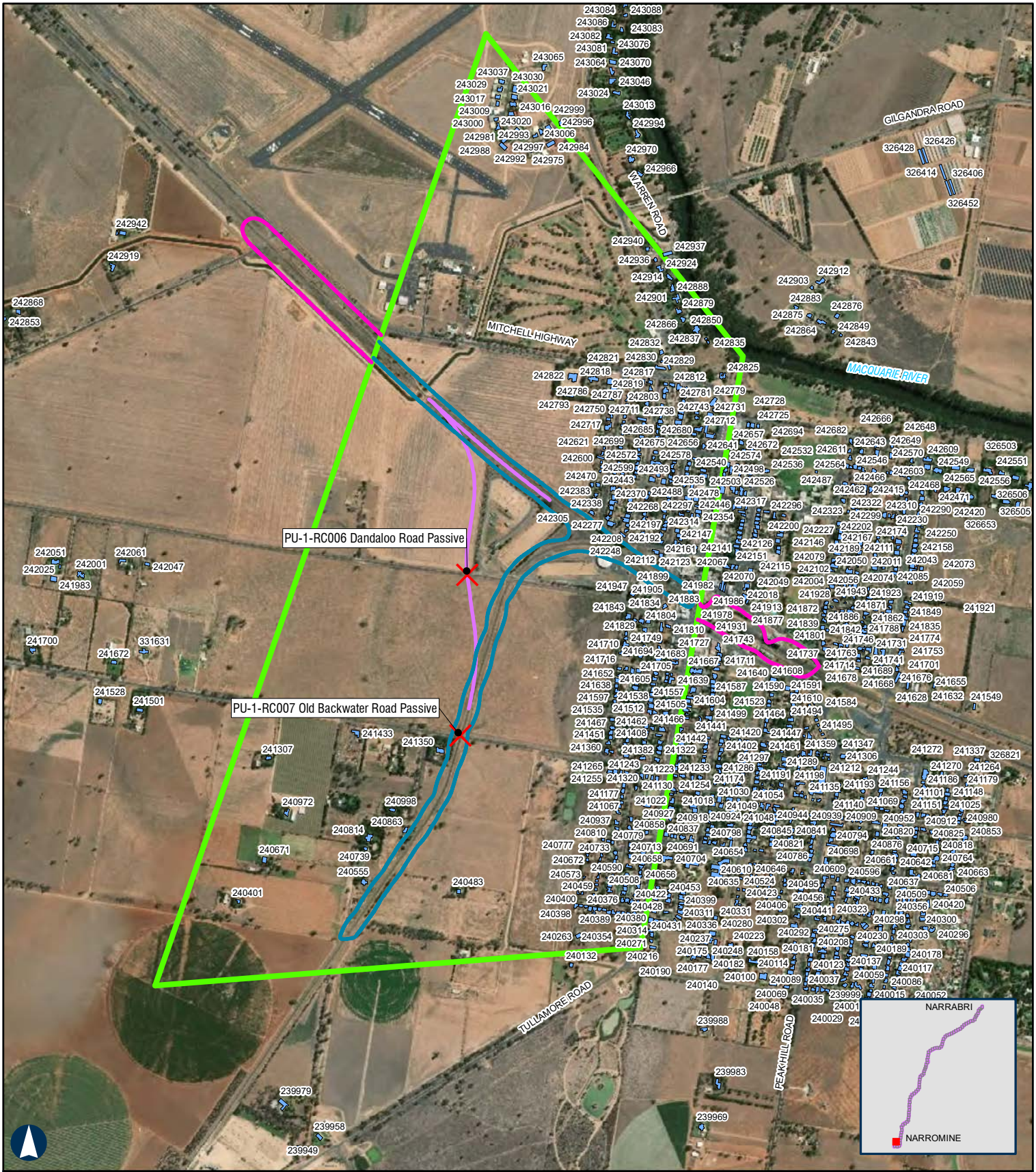


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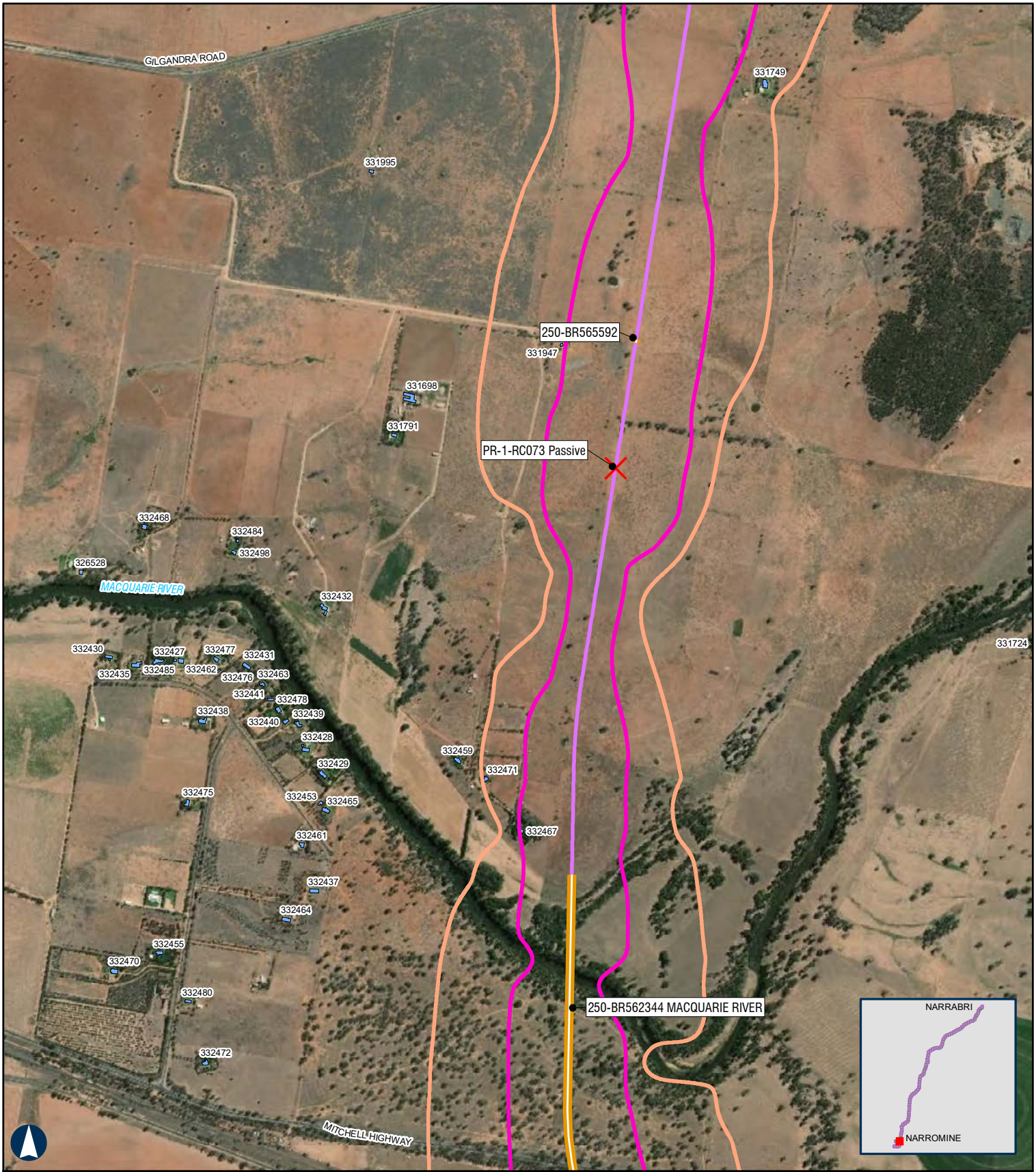


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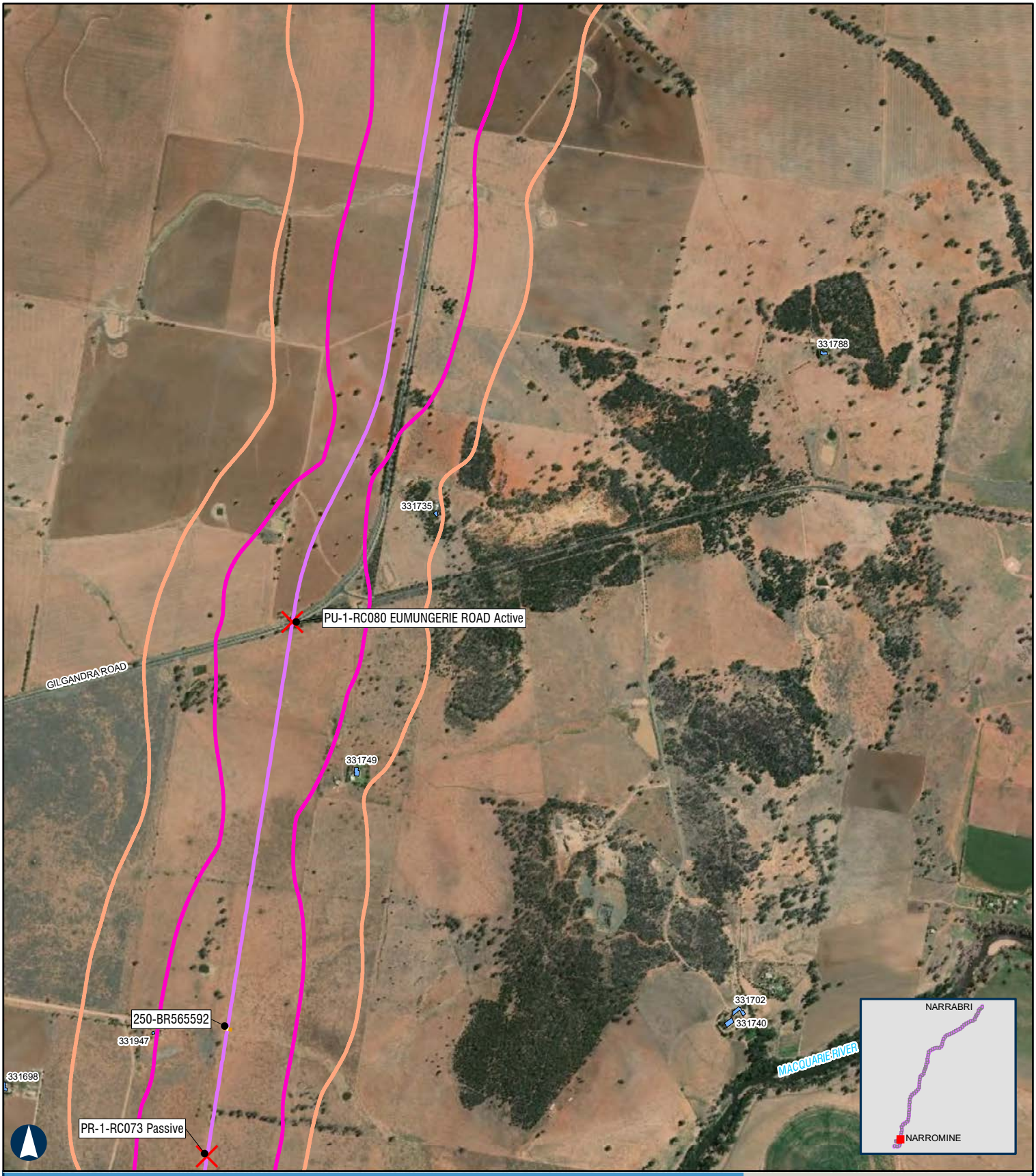


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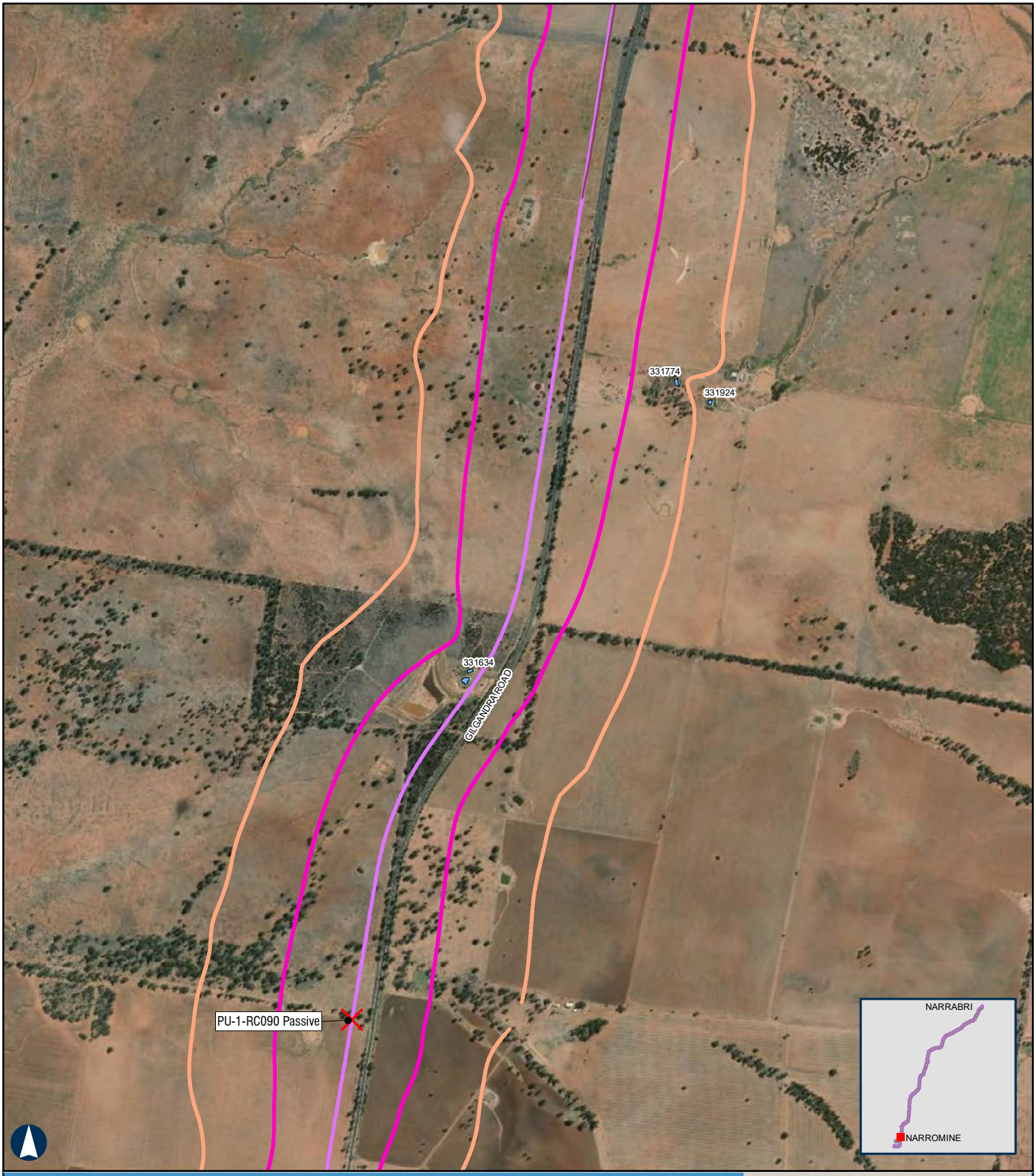


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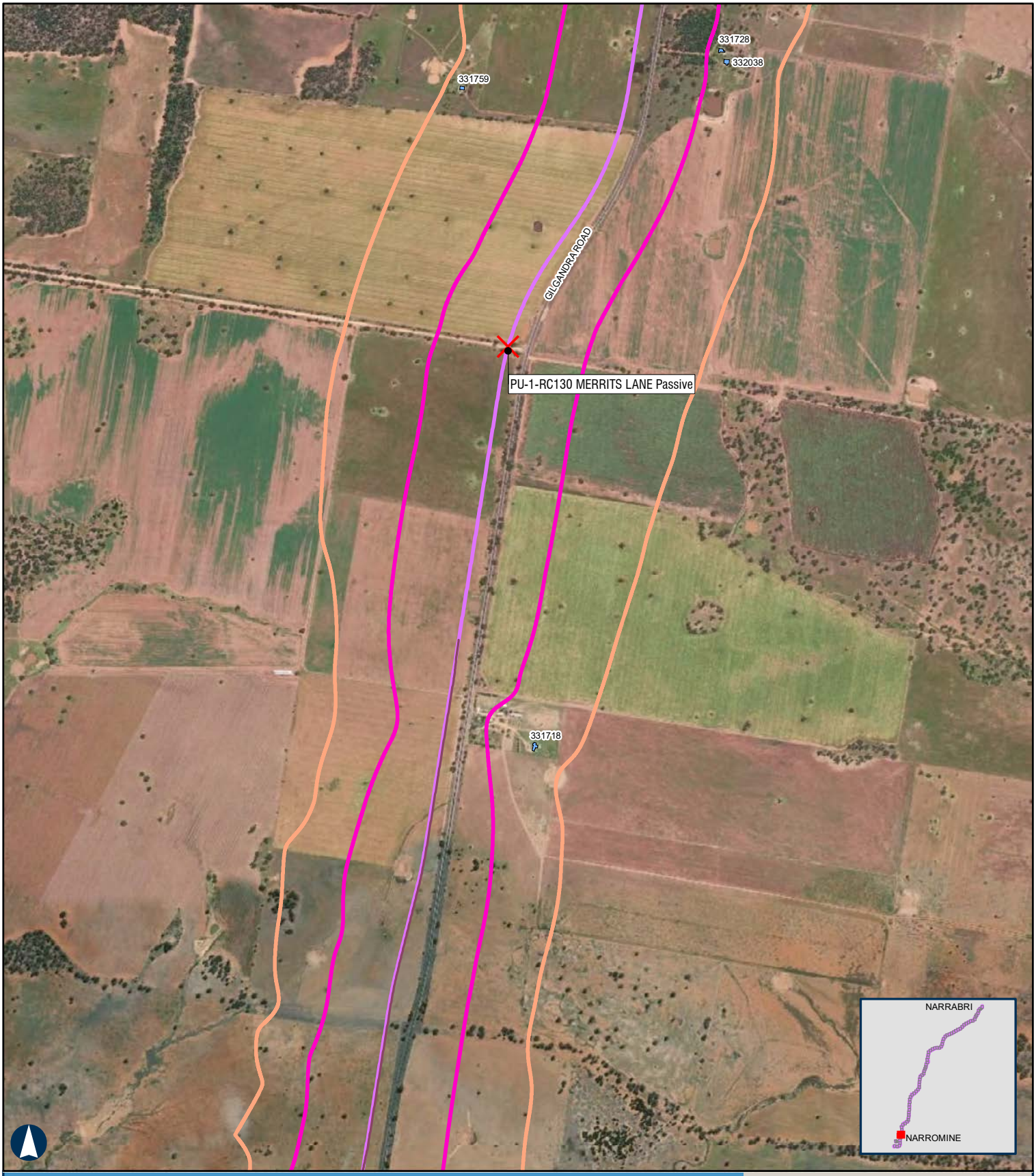


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 94 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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

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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ARTC InlandRail

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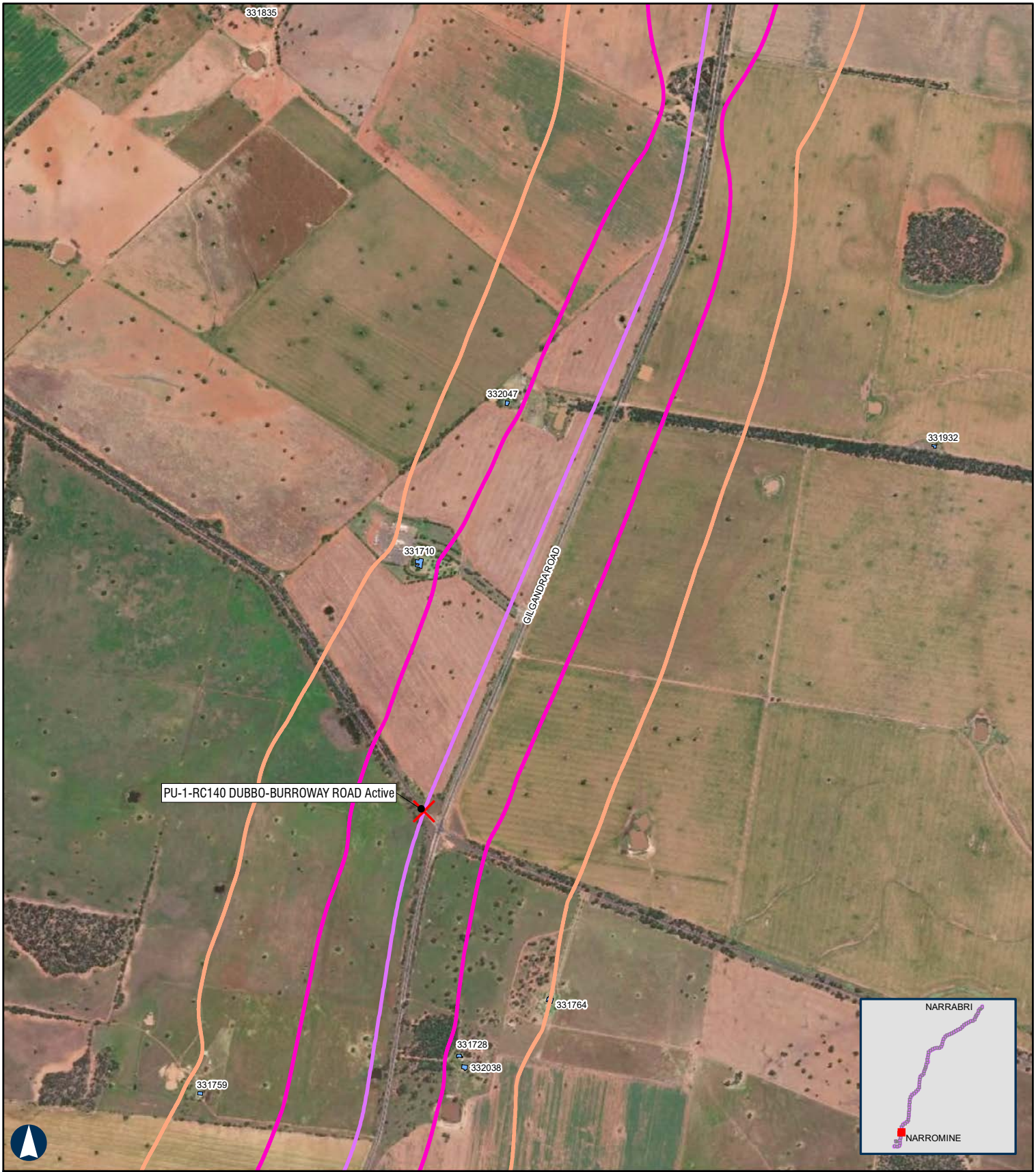
Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community




# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 95 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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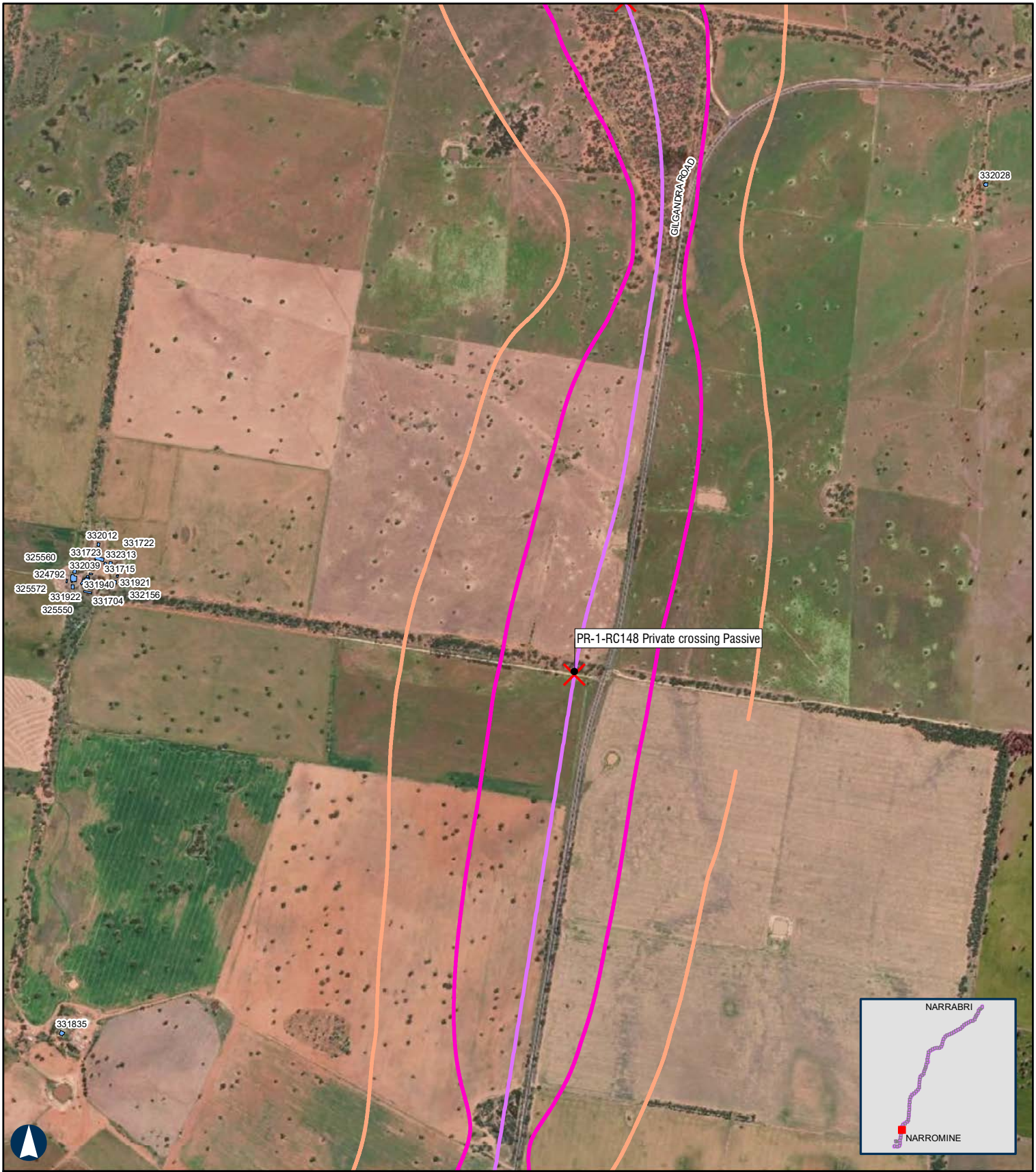


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 96 of 168

500 m

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# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 97 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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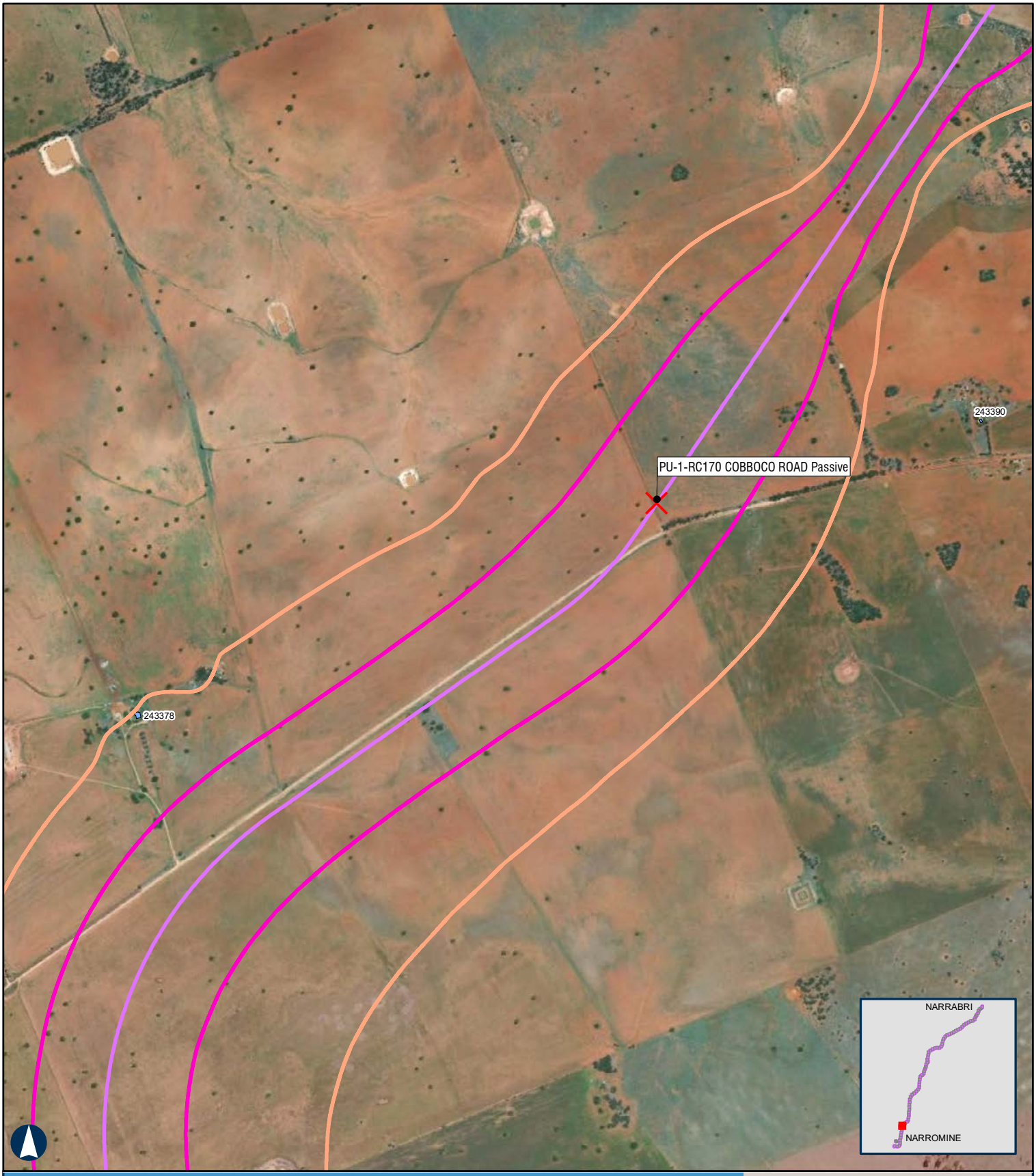


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 98 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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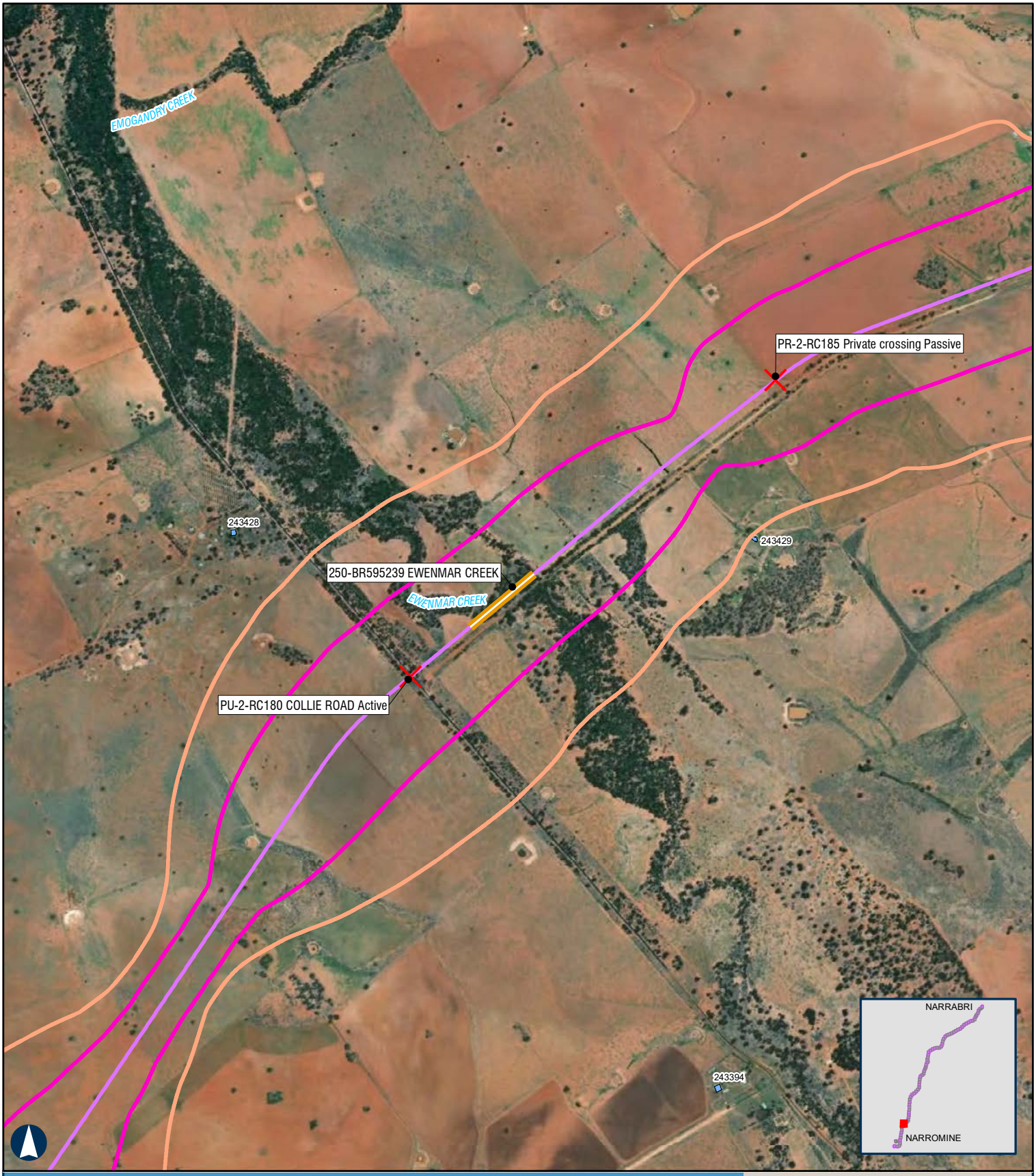


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 99 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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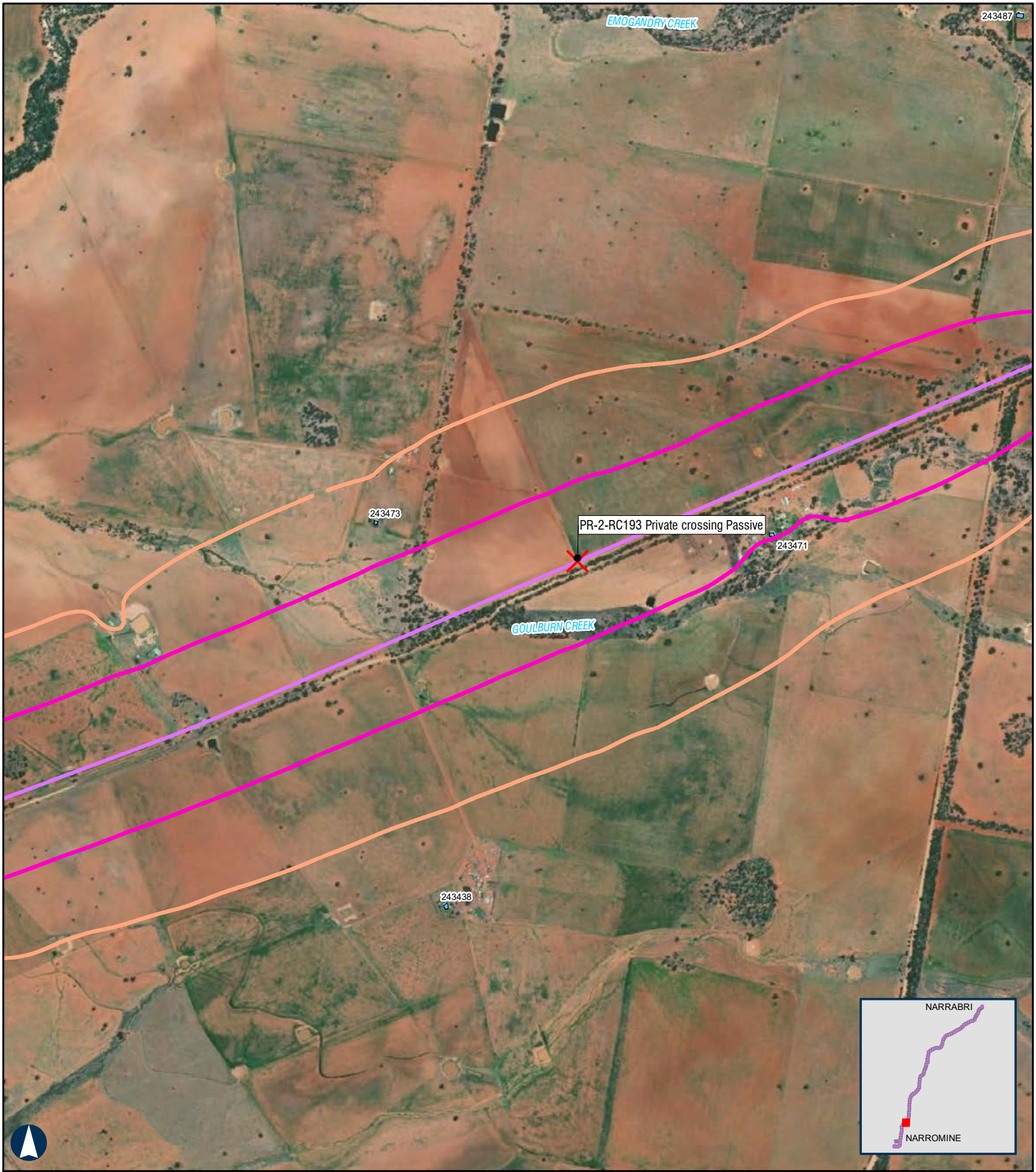


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 100 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
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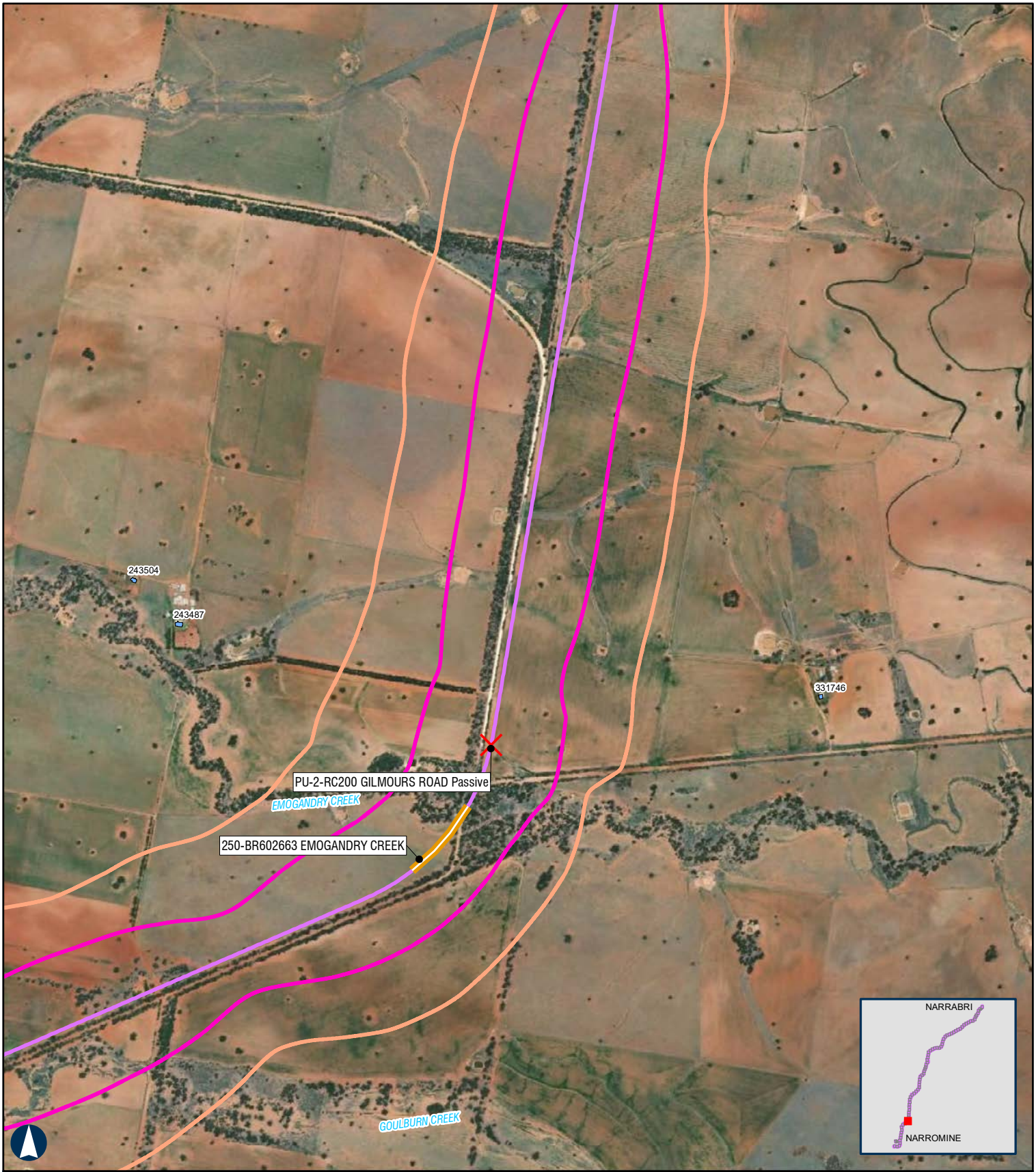


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 101 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
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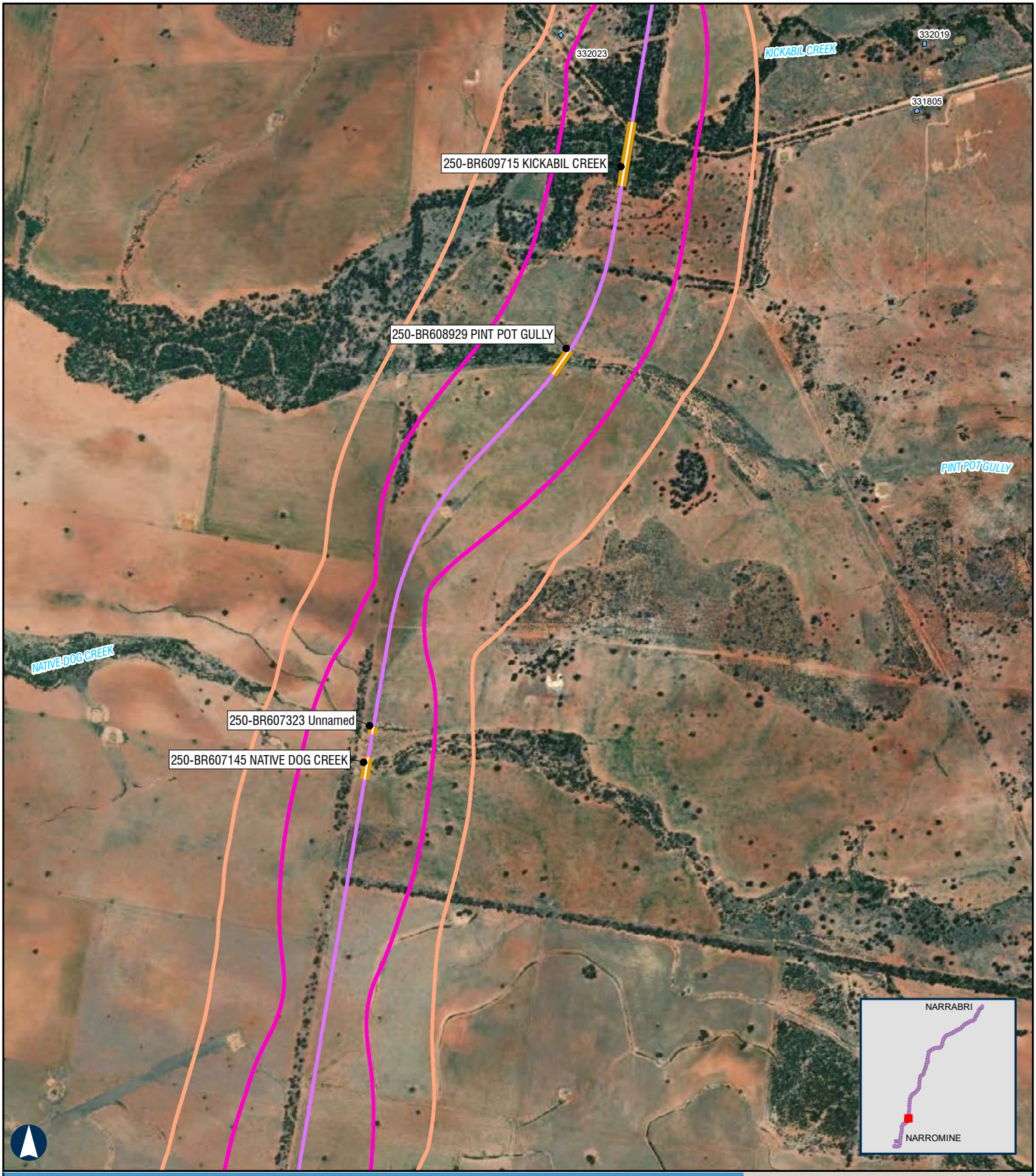


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 102 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
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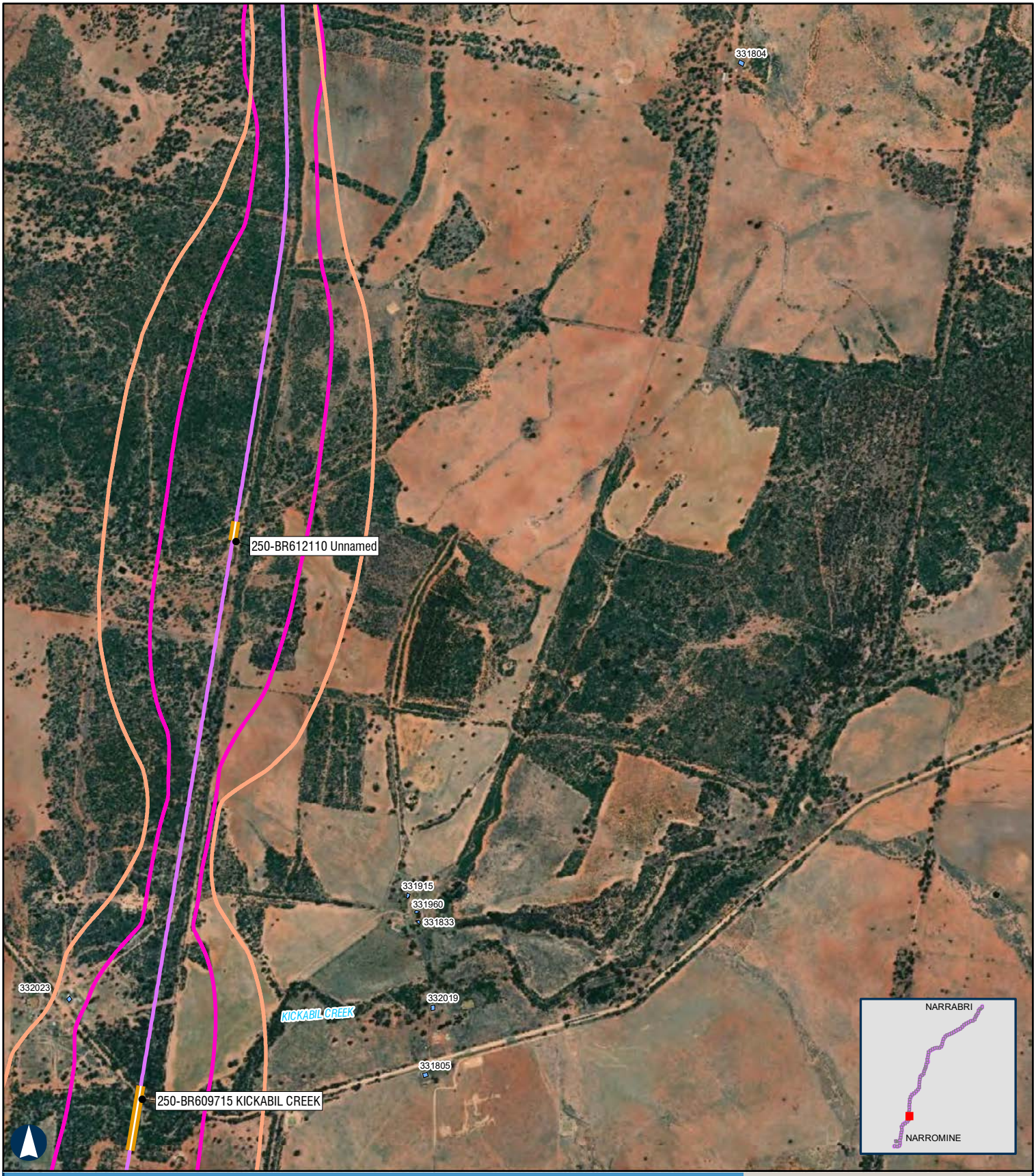


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Year 2040 Night-time Rail Noise Levels



500 m

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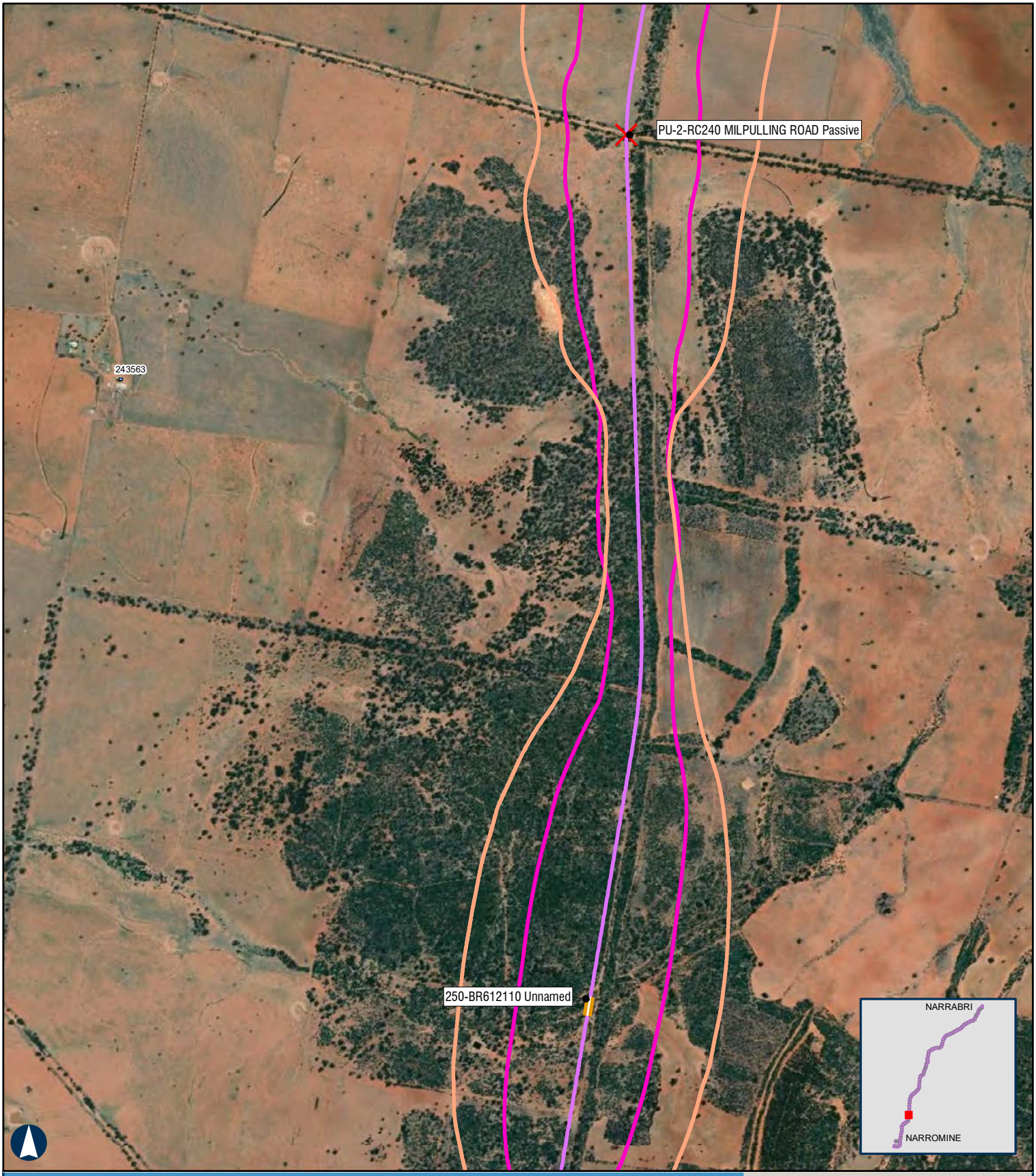


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels



500 m

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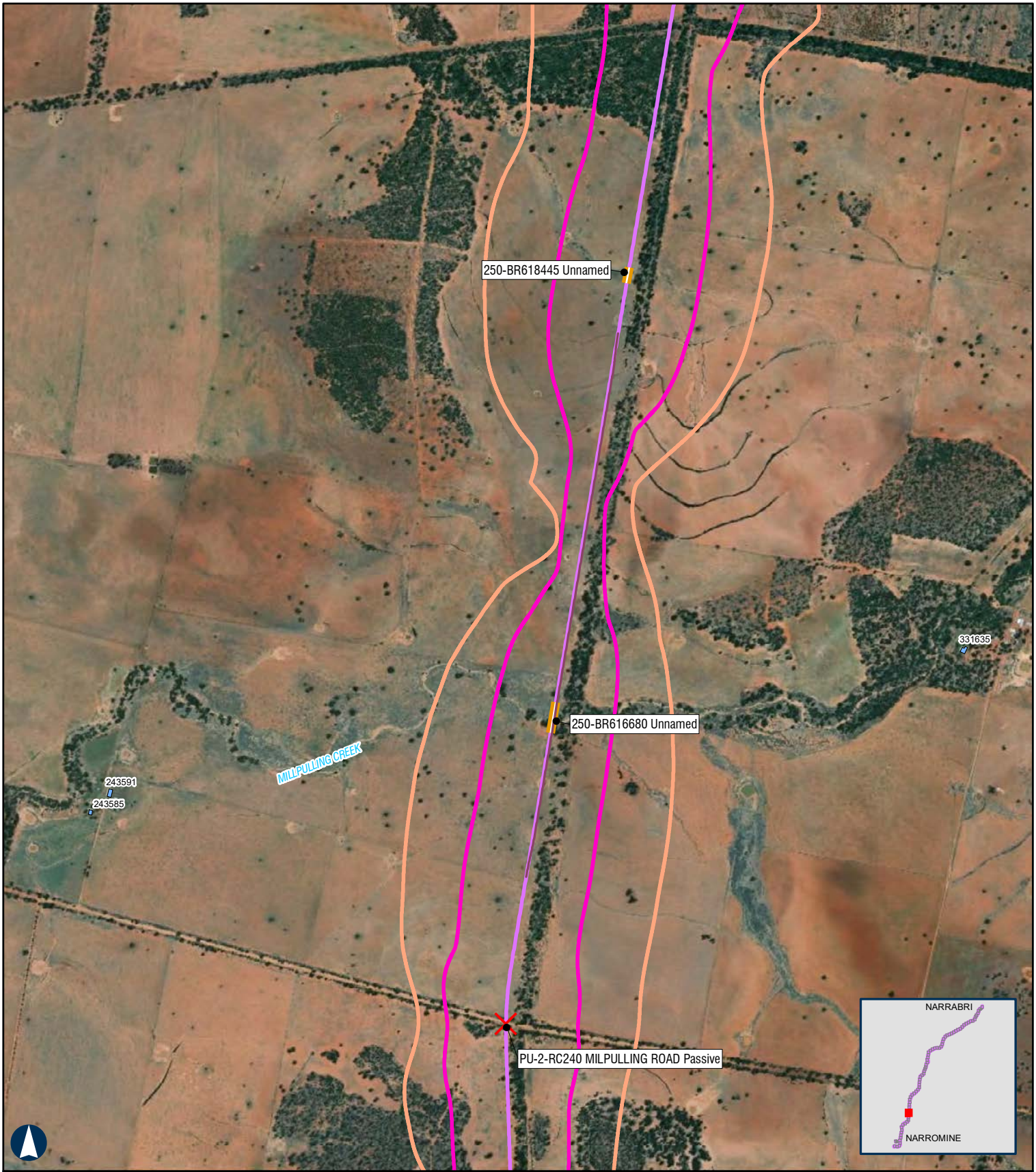


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 105 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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Date: 01-Sep-2020
Author: JG

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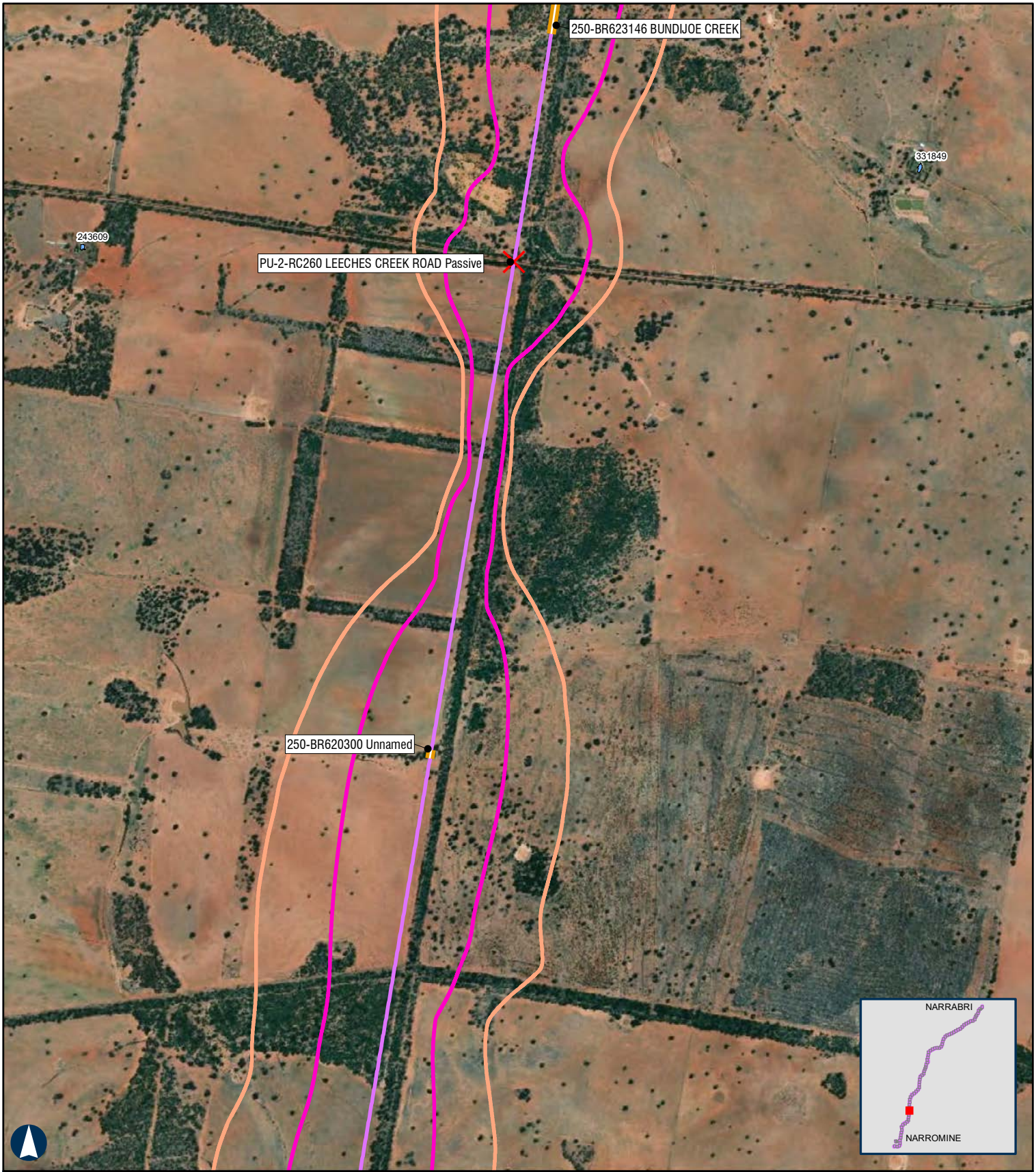


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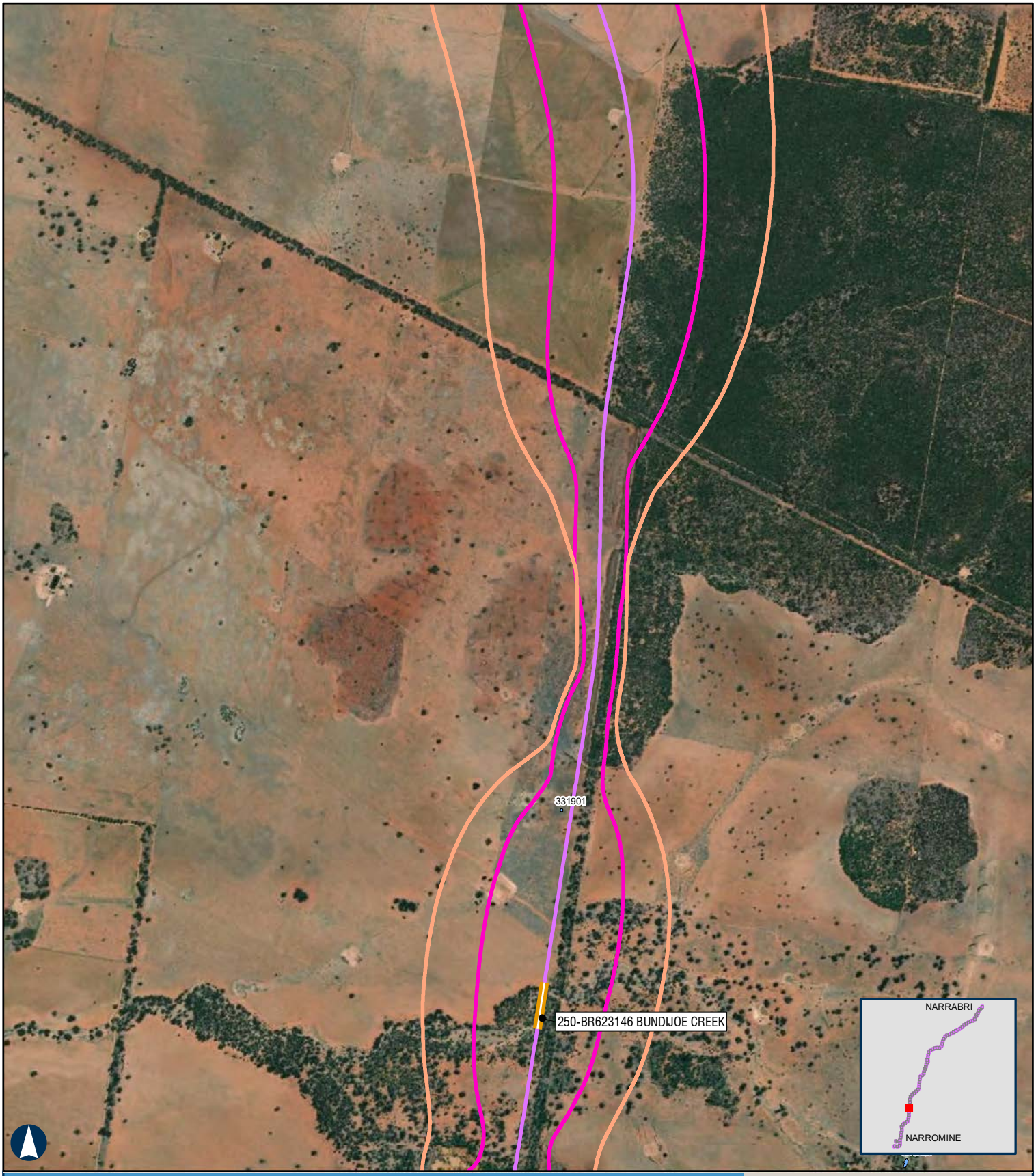


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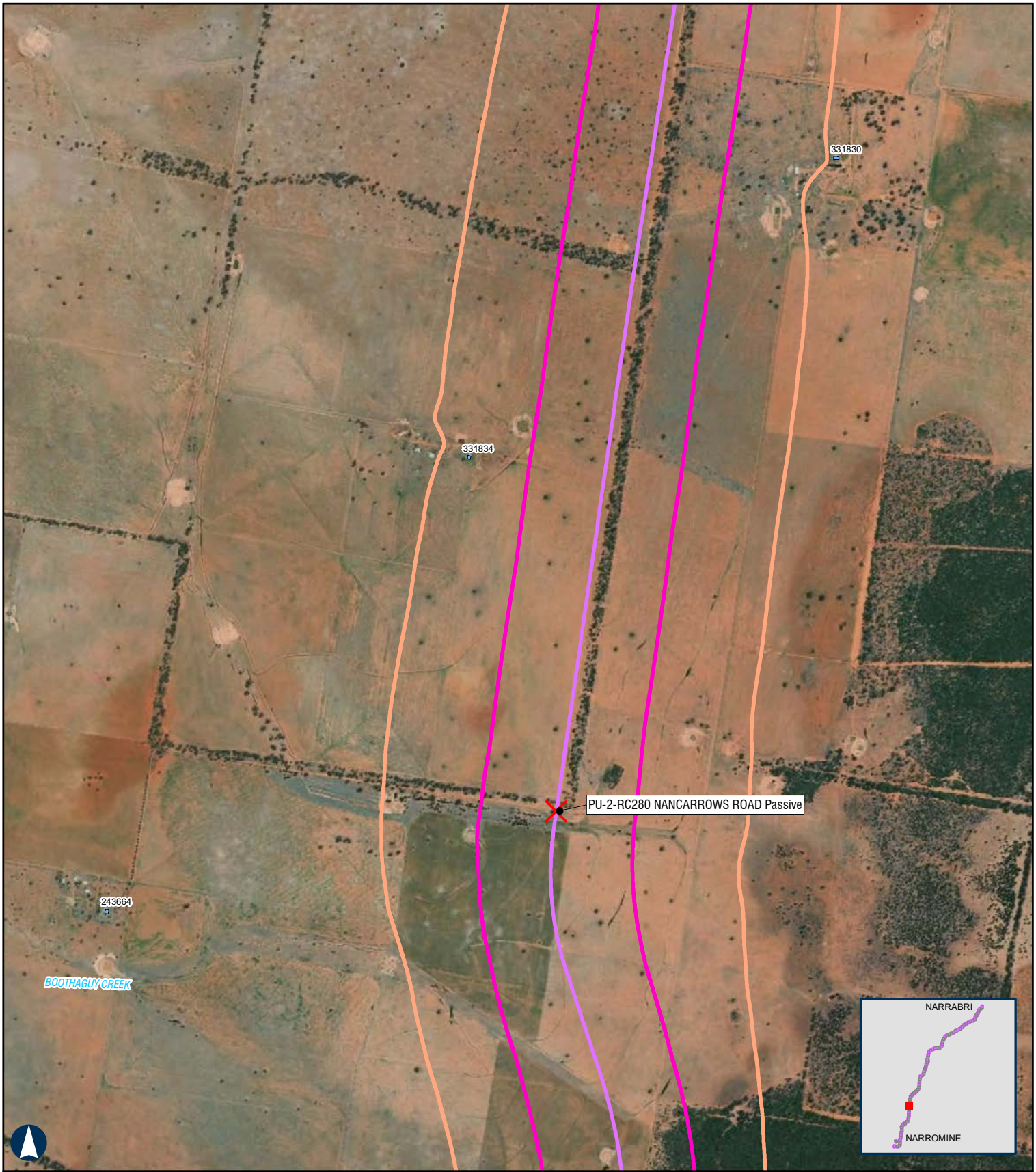


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 108 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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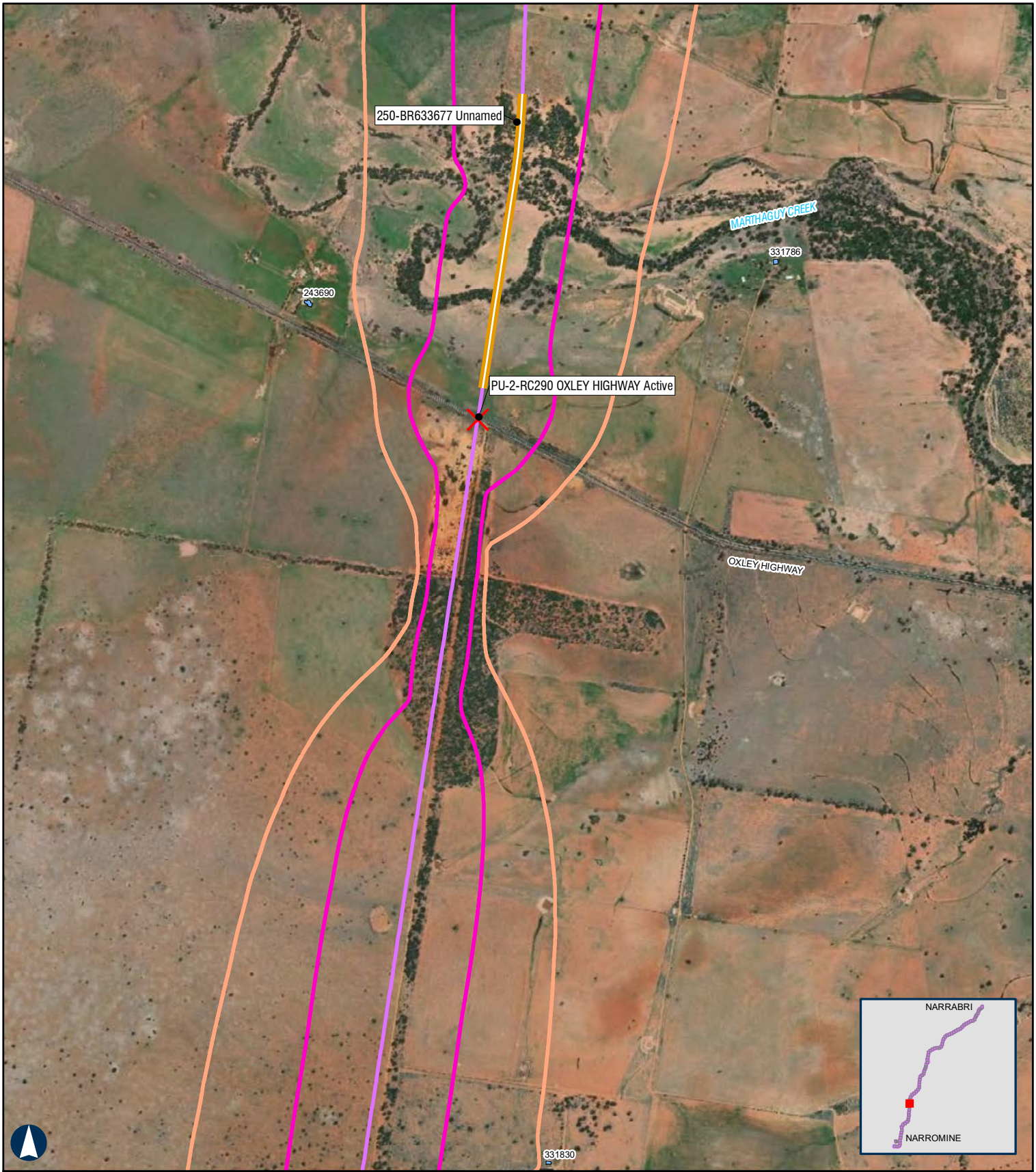


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 109 of 168

500 m

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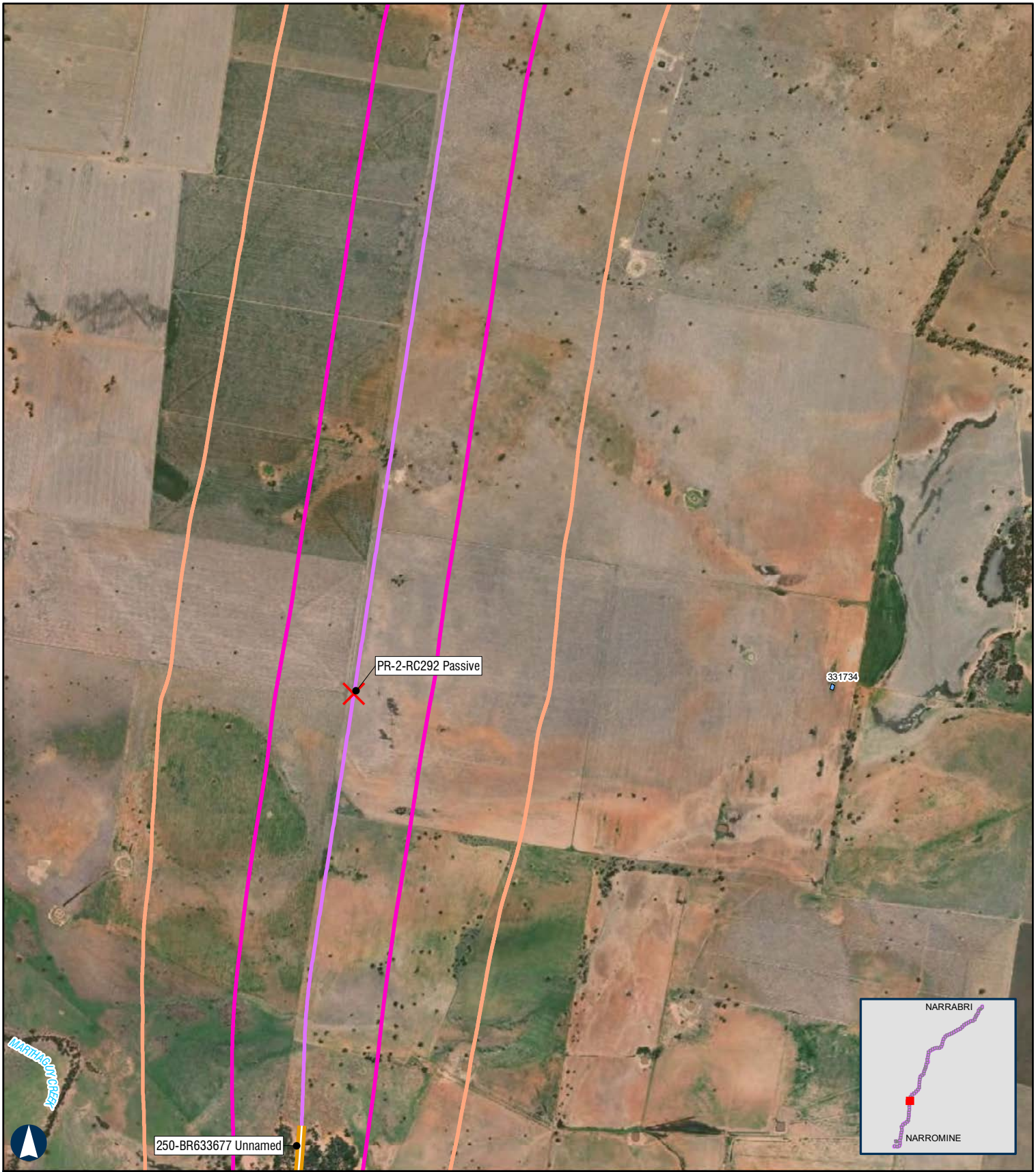


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 110 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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

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

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ARTC InlandRail

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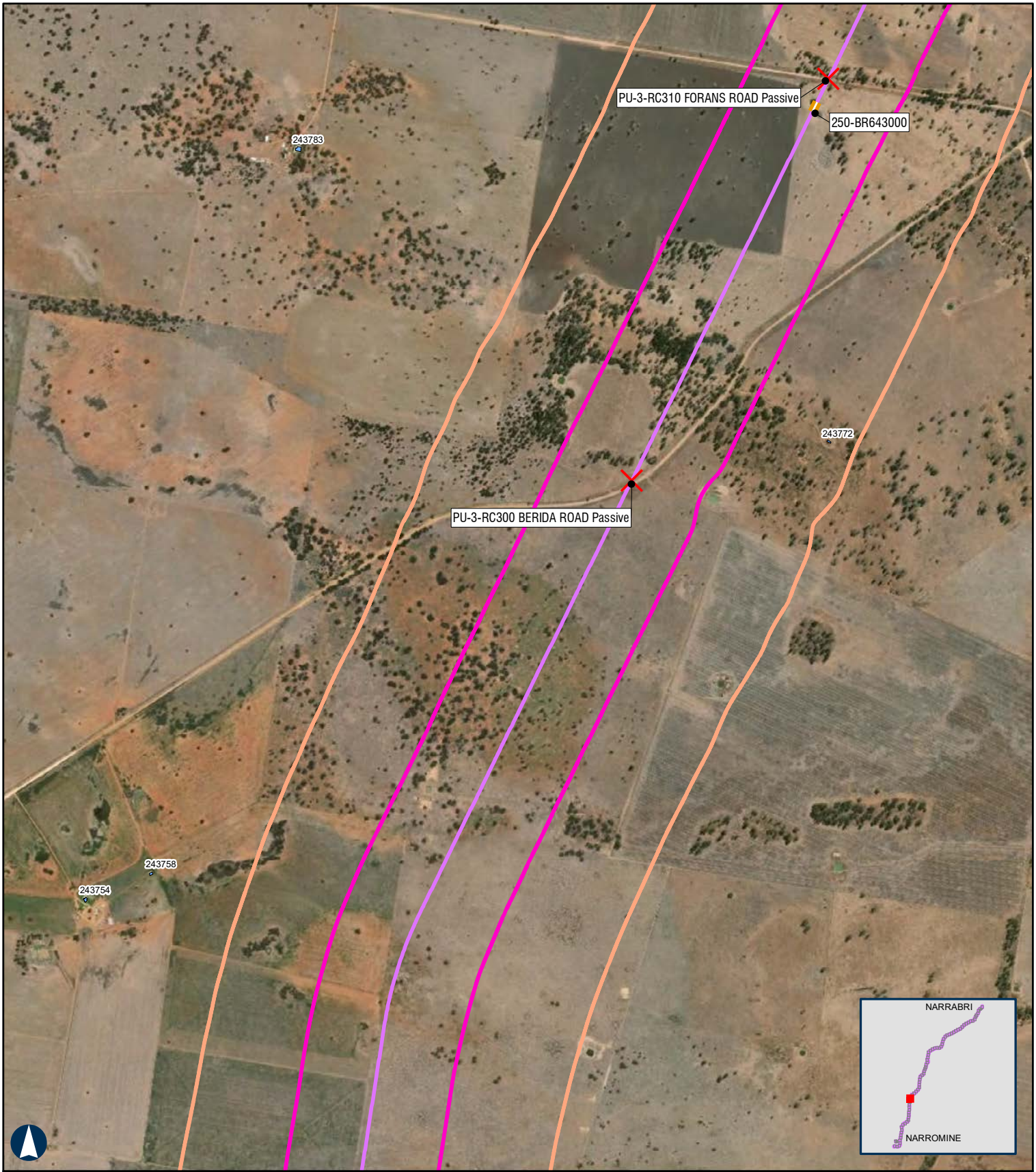
Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community




# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels



500 m

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Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
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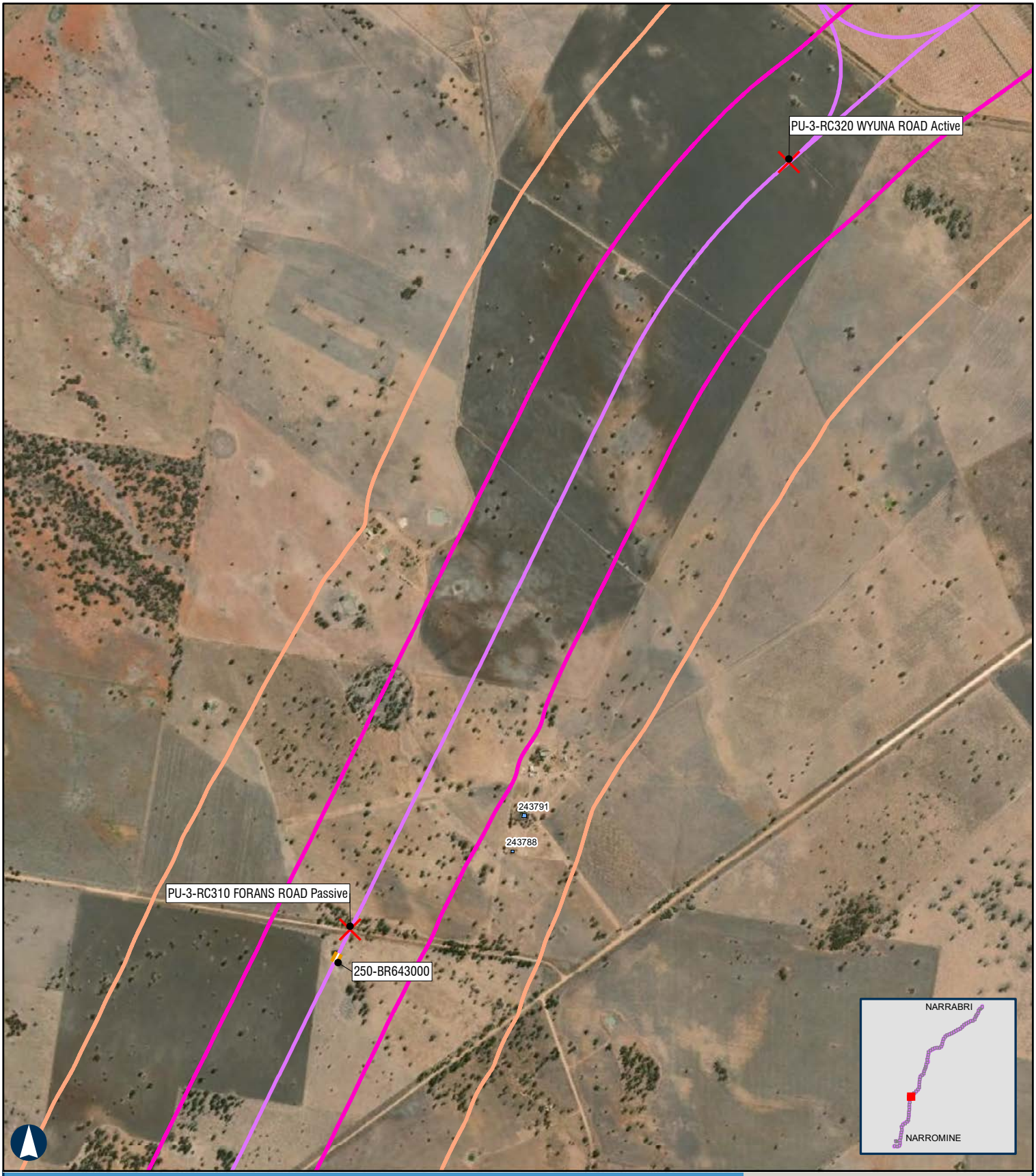


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 112 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

- Level Crossings
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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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Date: 01-Sep-2020
Author: JG

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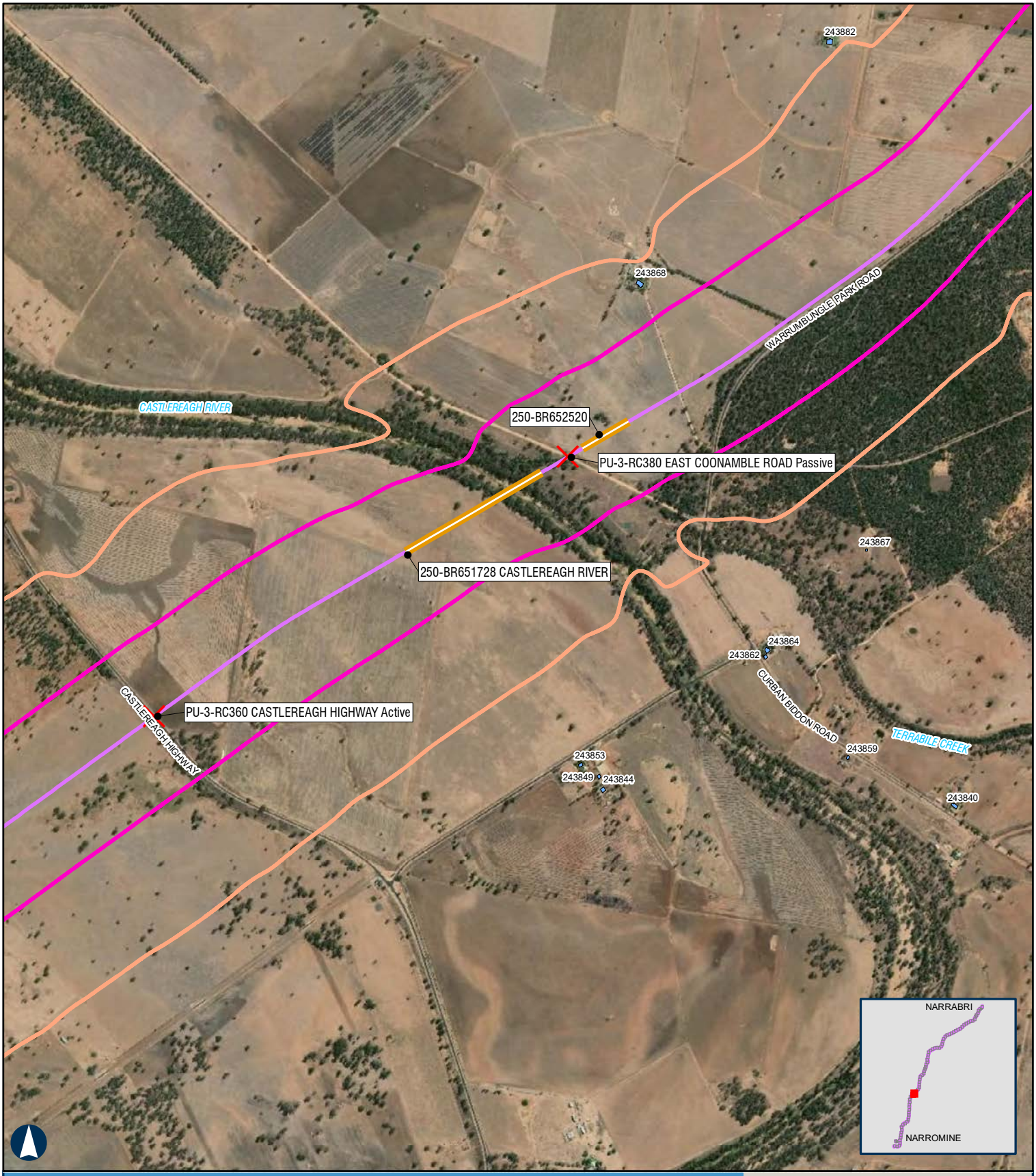


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 114 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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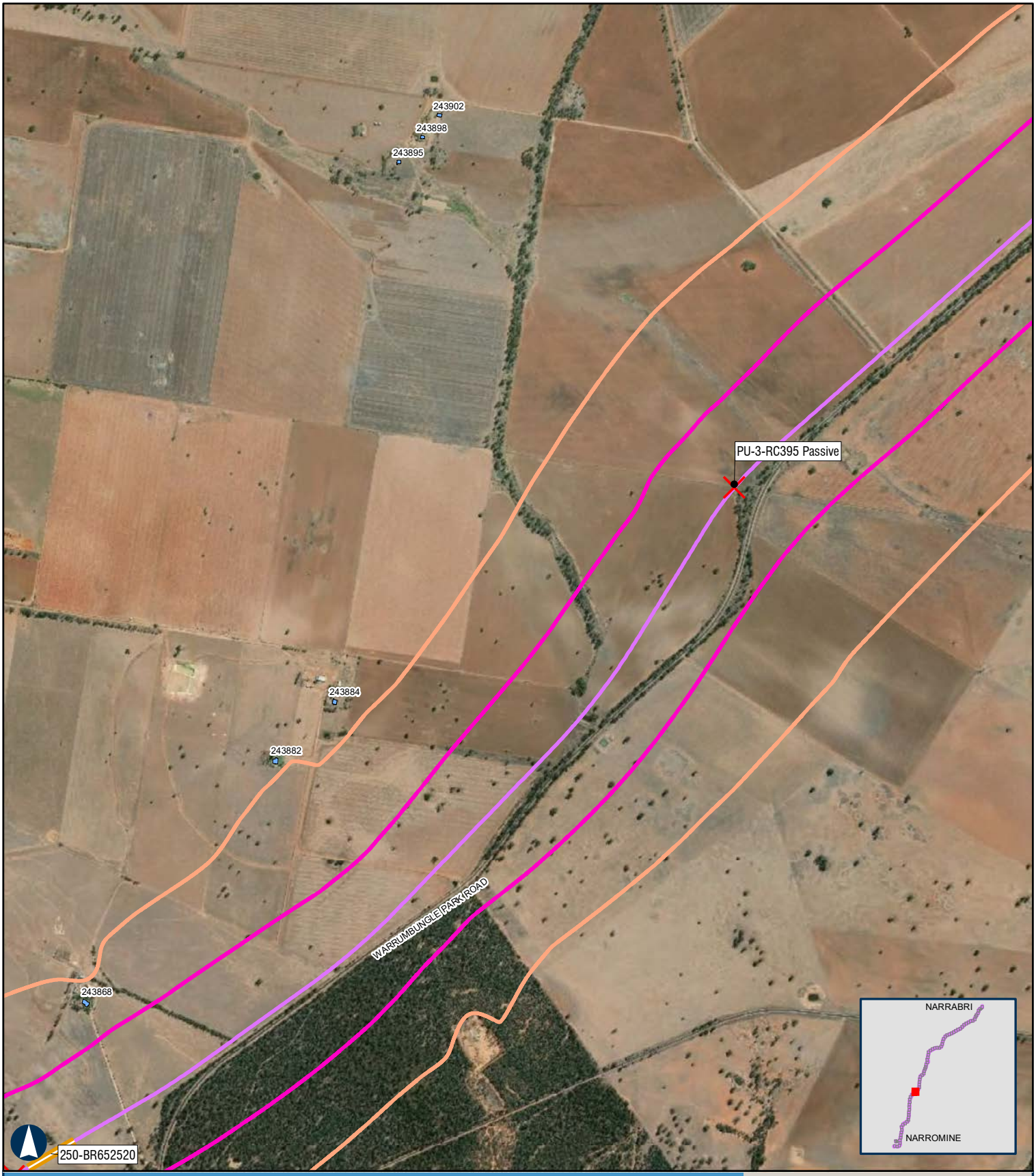


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Year 2040 Night-time Rail Noise Levels



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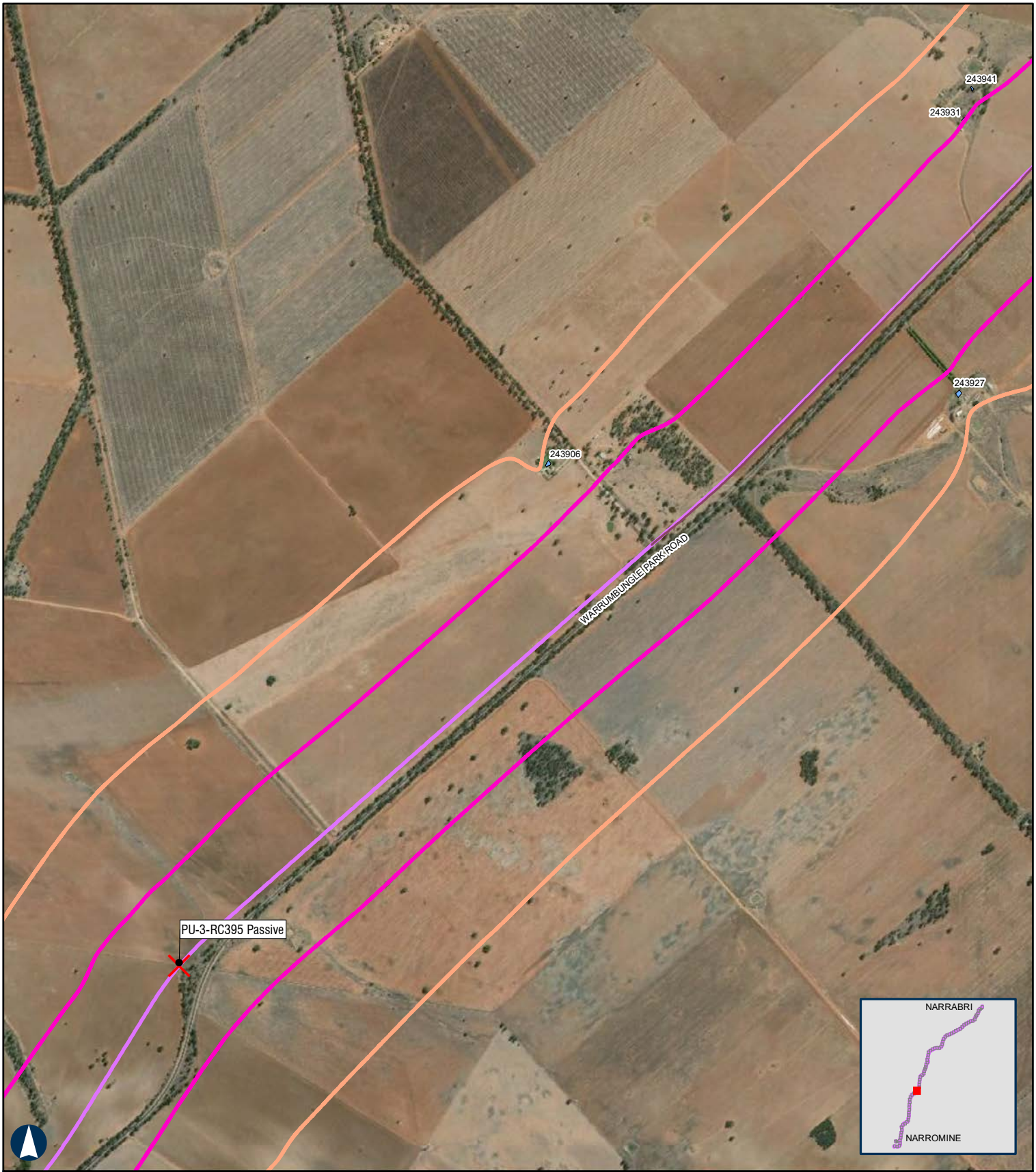


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 116 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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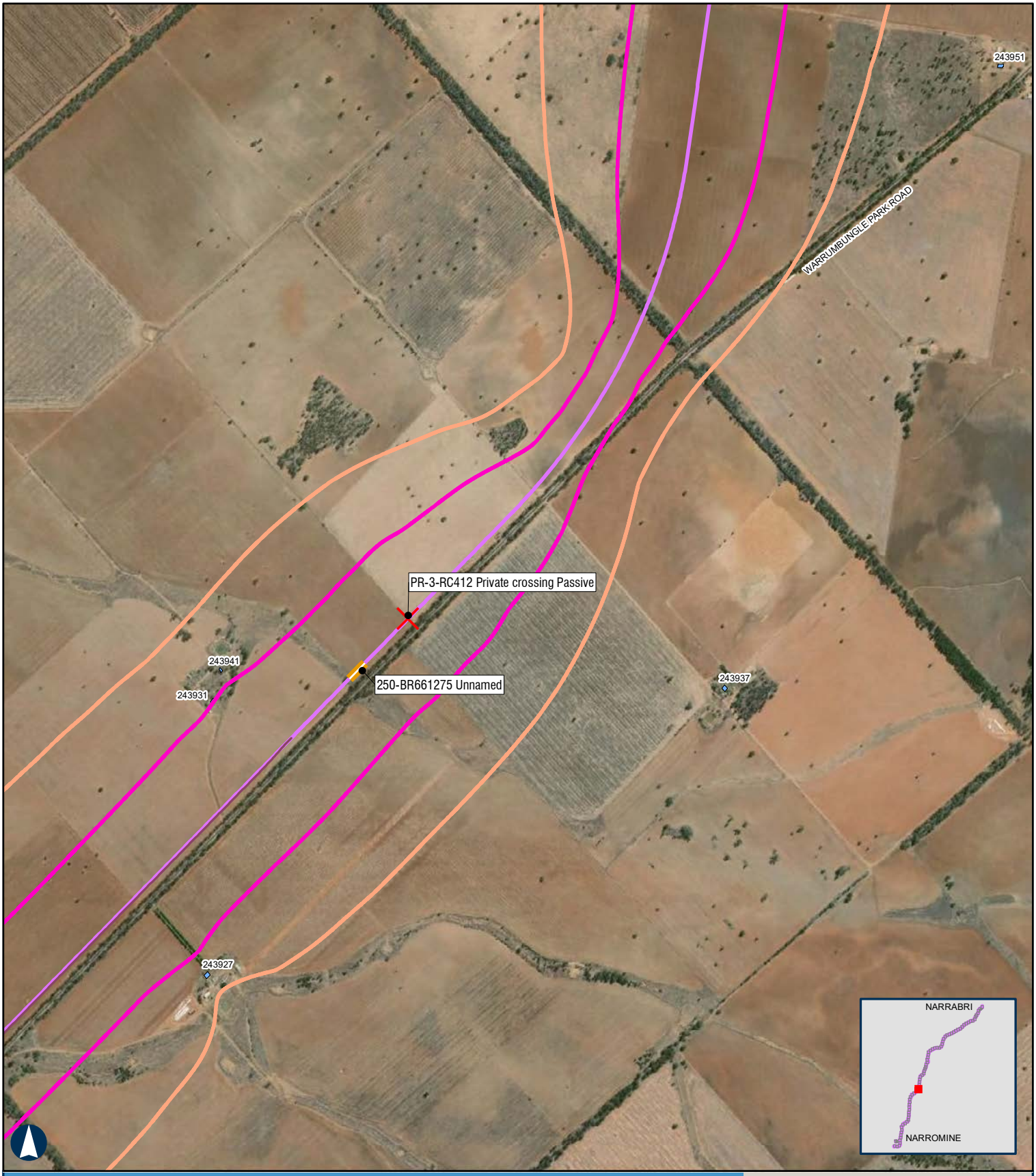


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Year 2040 Night-time Rail Noise Levels



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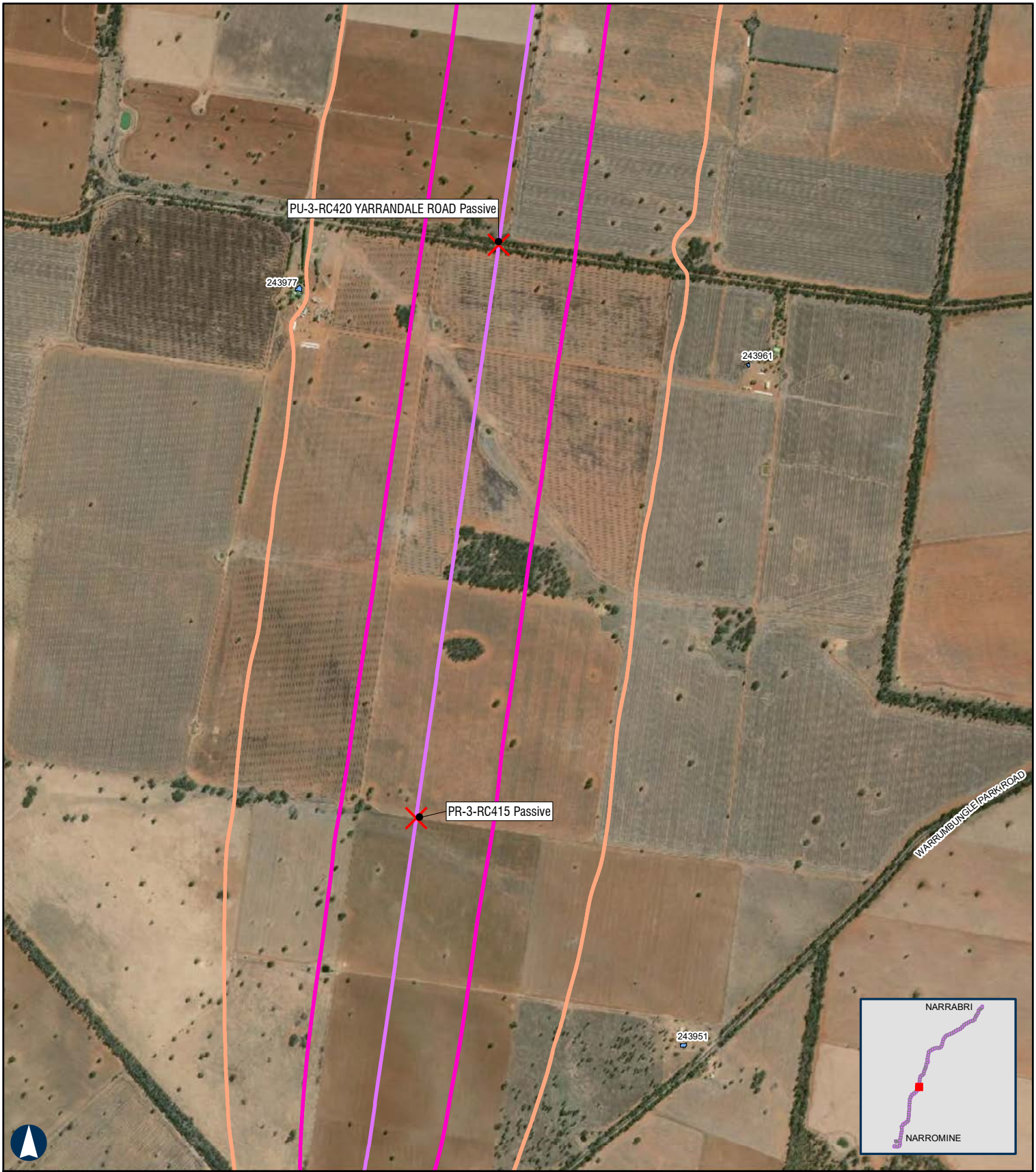


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 118 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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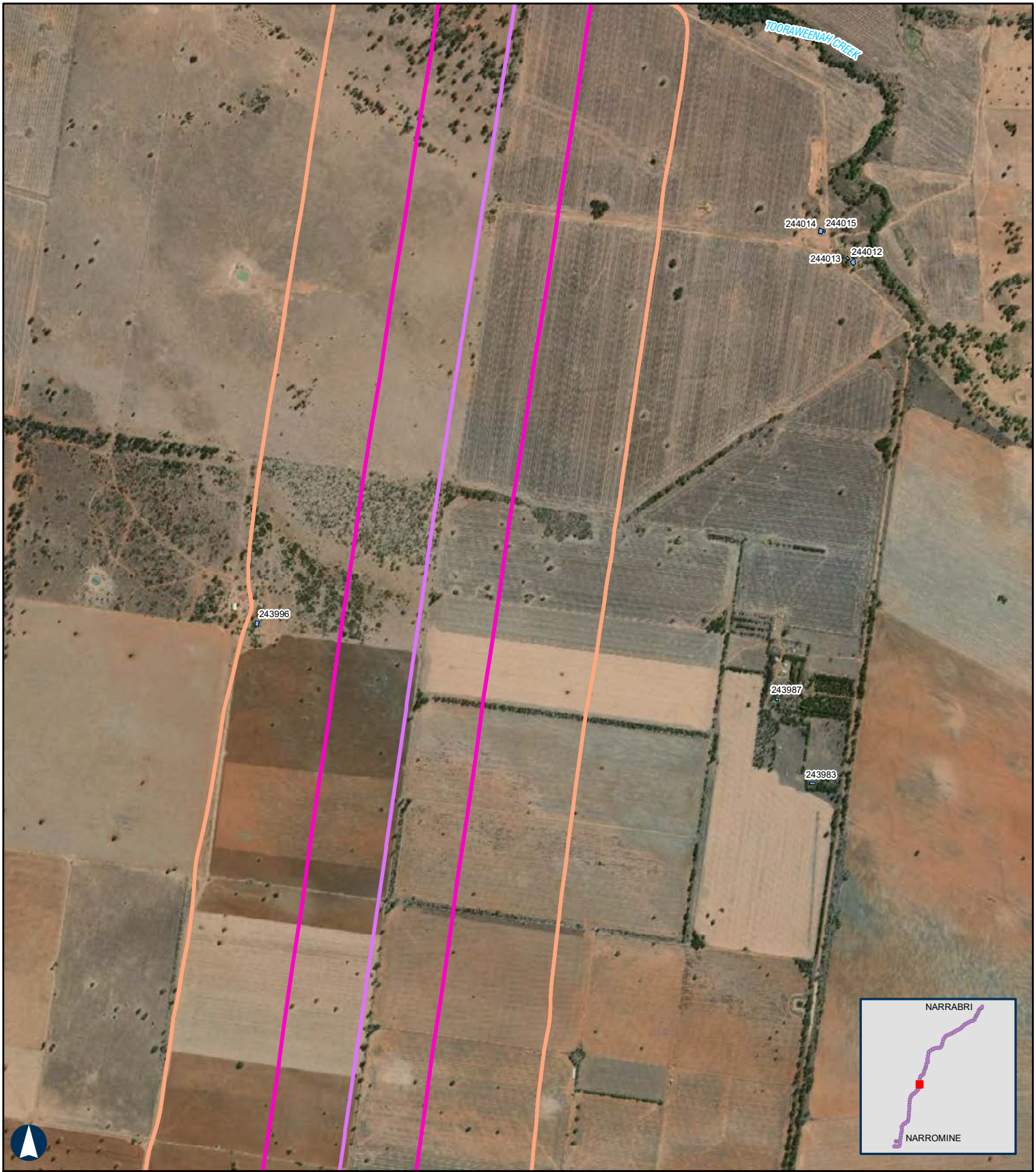


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Year 2040 Night-time Rail Noise Levels



500 m

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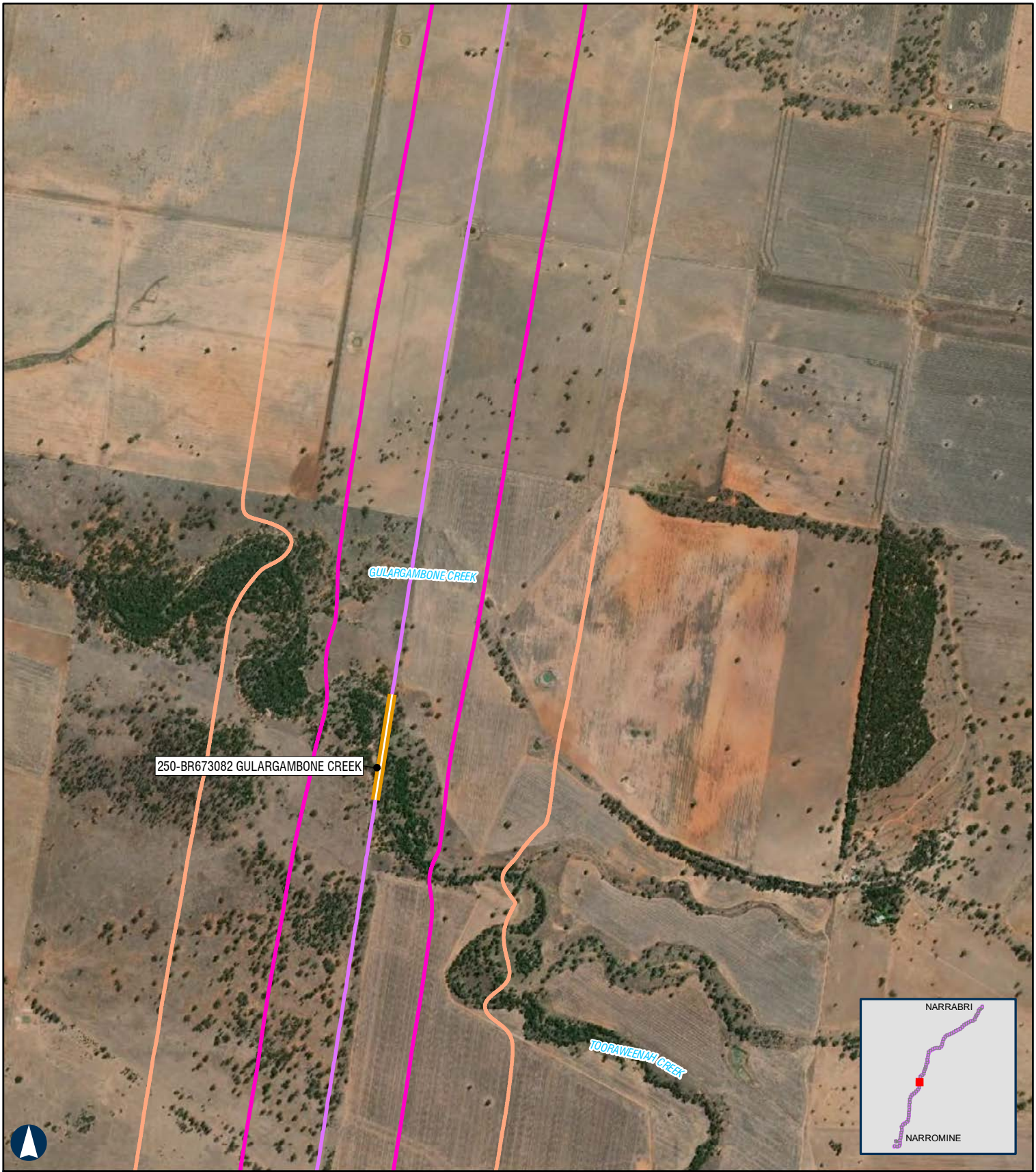


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## Year 2040 Night-time Rail Noise Levels



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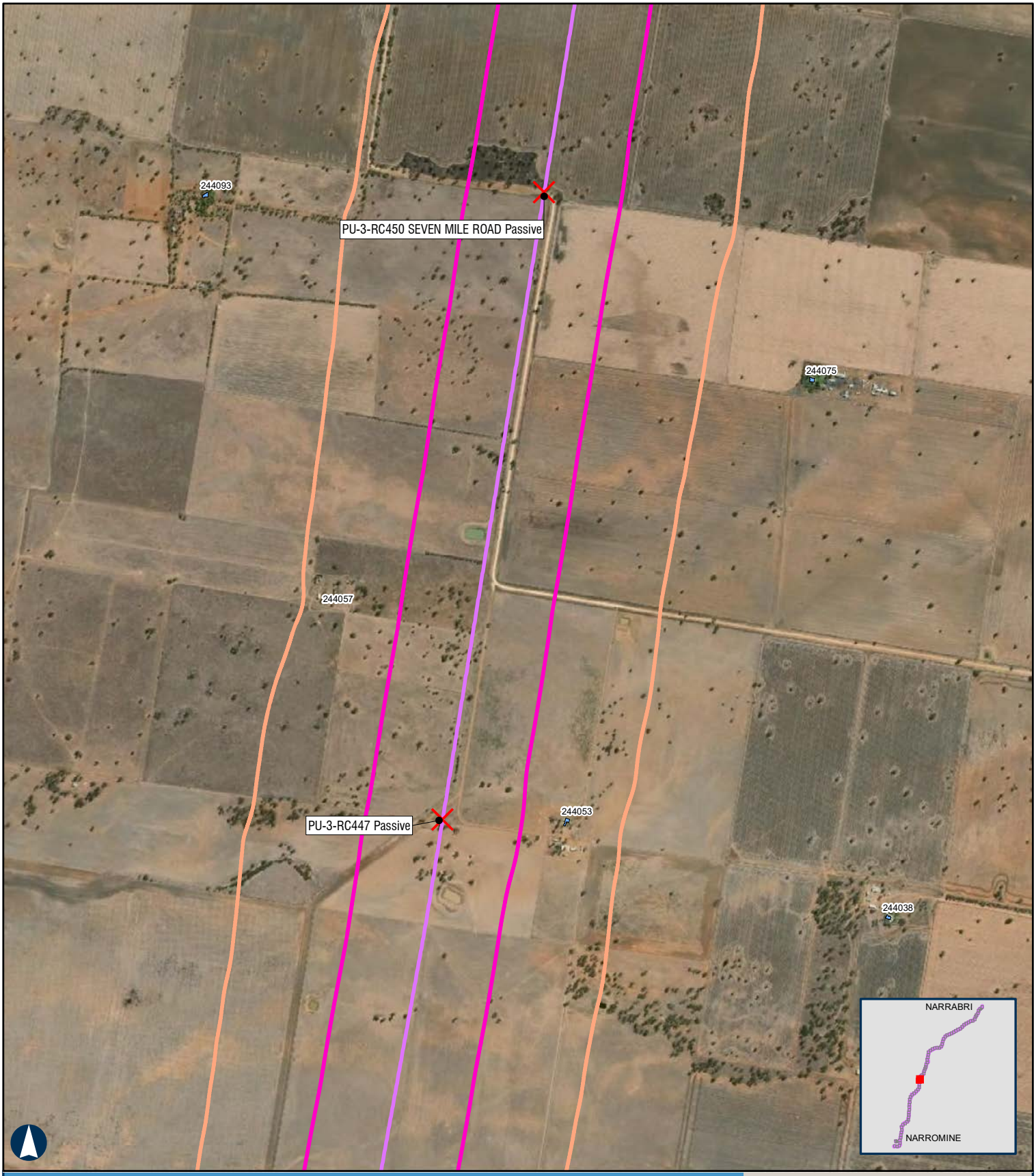


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 121 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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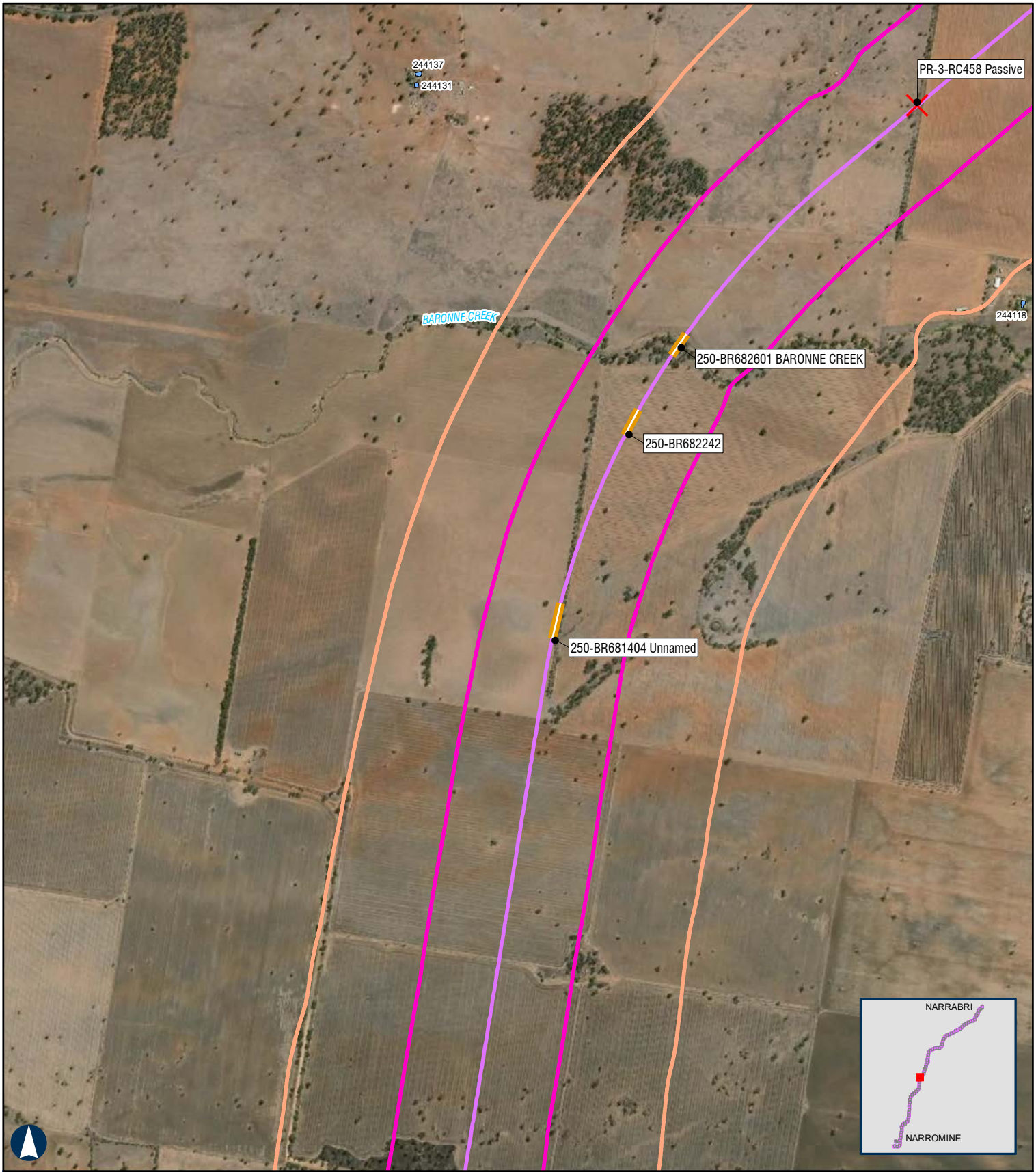


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 122 of 168

500 m

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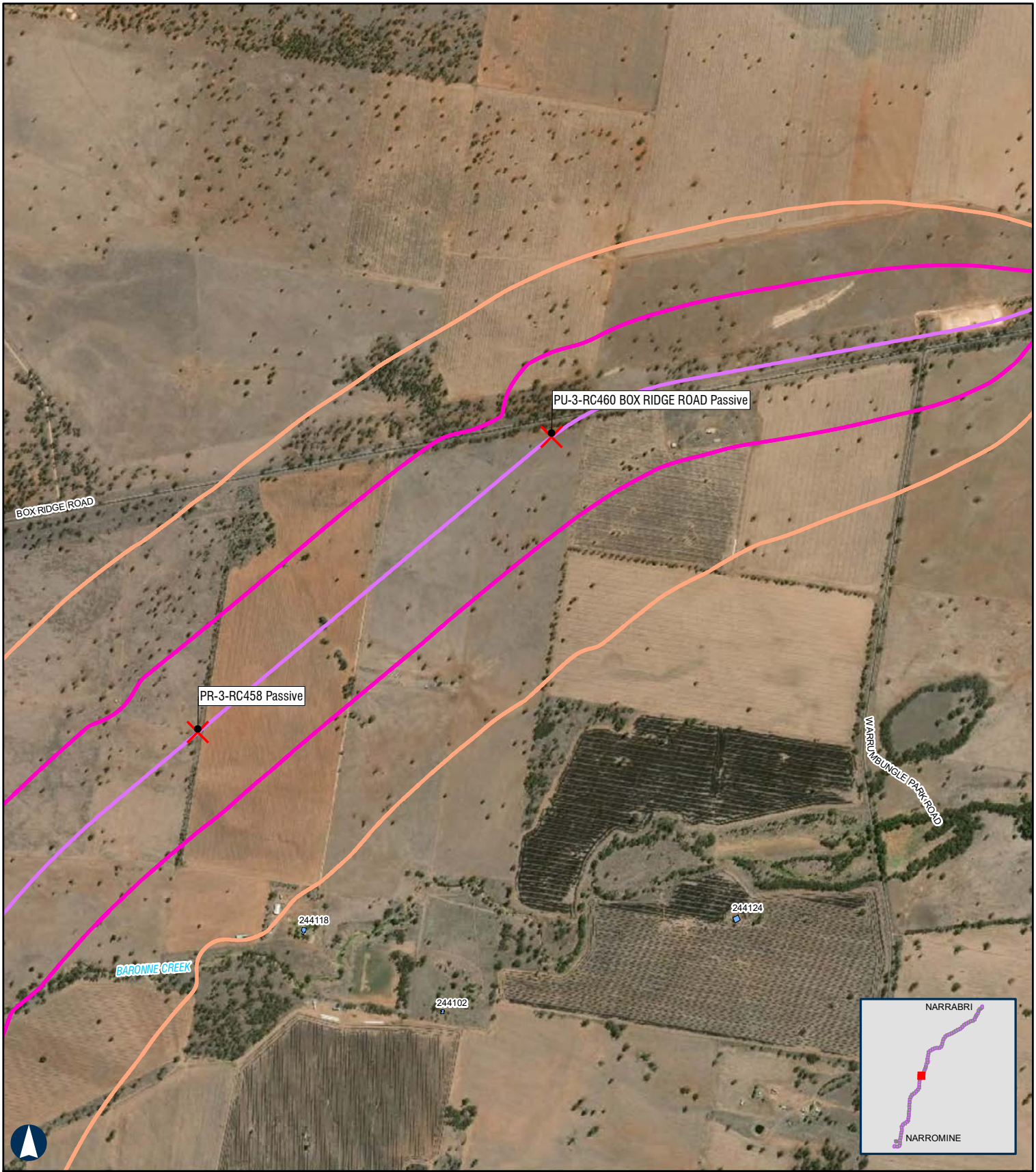


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 123 of 168

500 m

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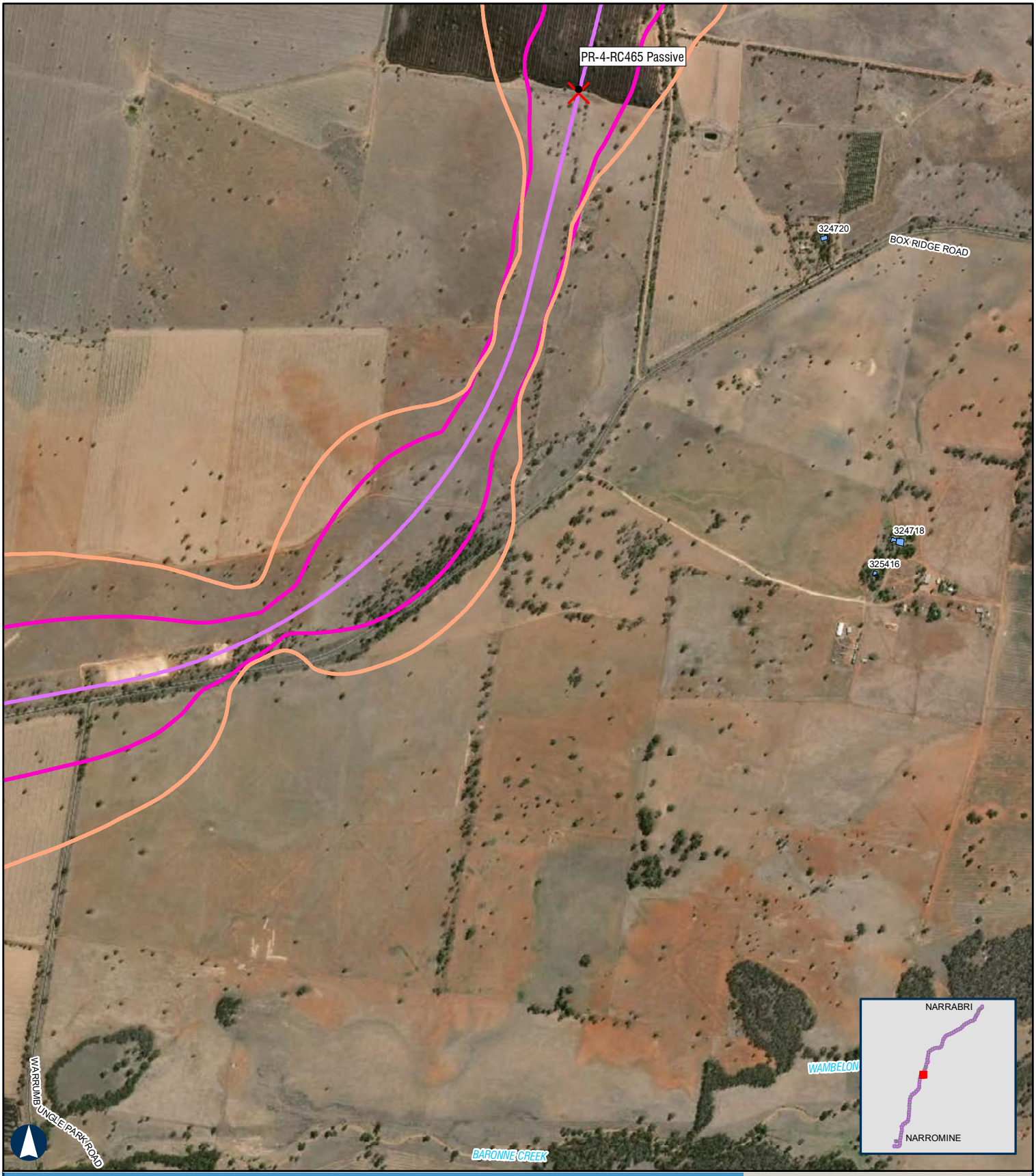


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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 124 of 168

500 m

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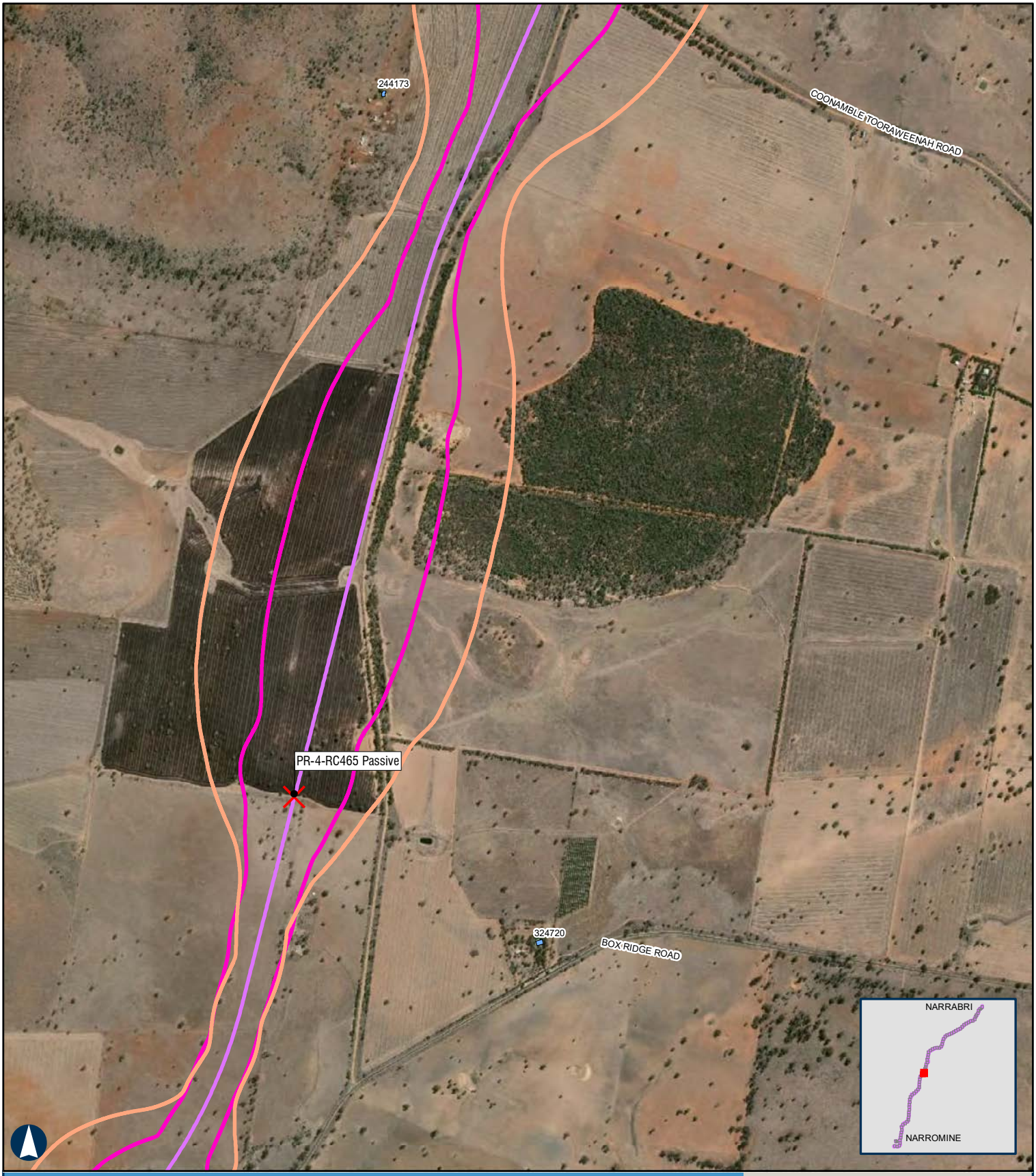


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 125 of 168

500 m

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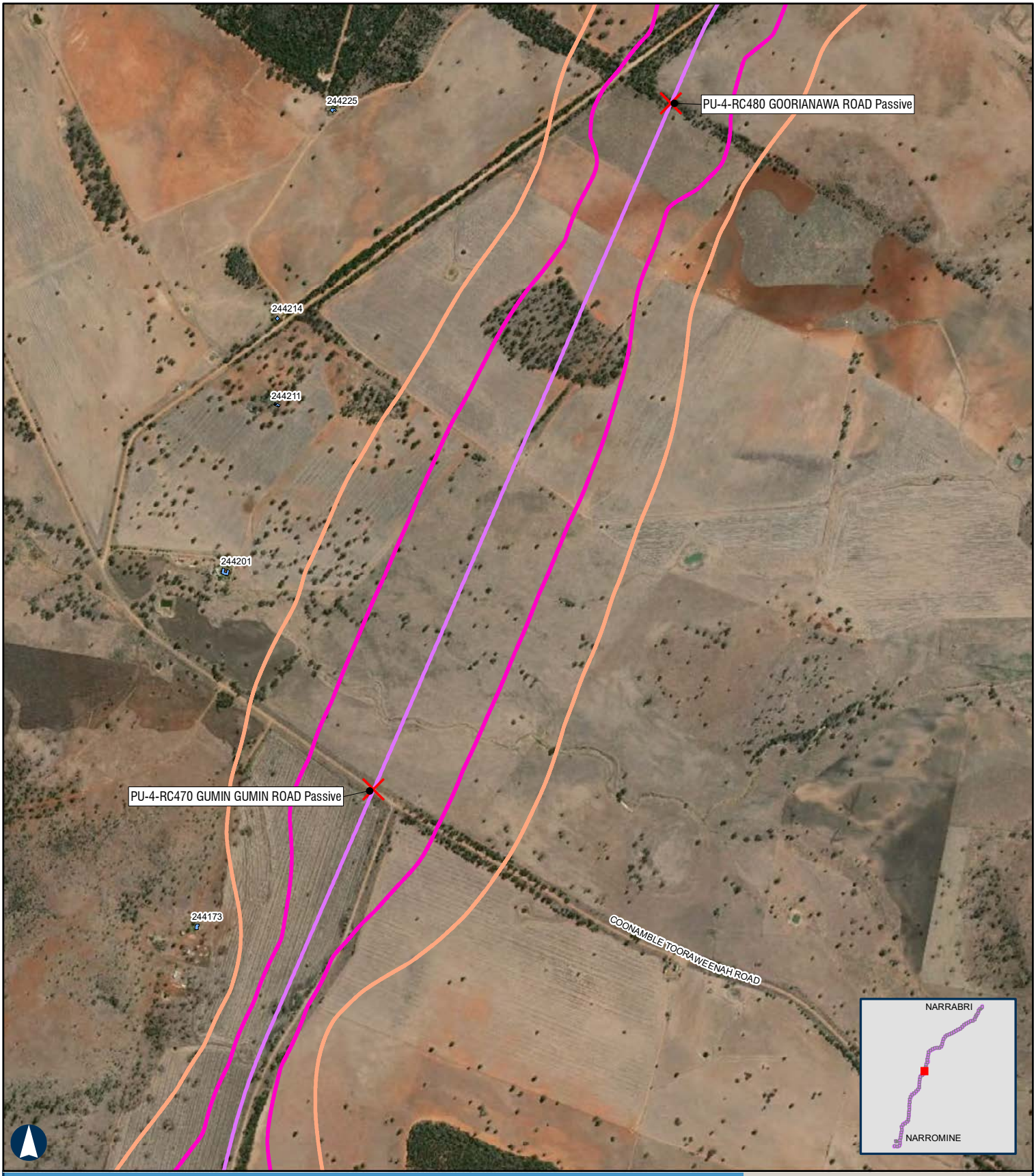


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 126 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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
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ARTC InlandRail

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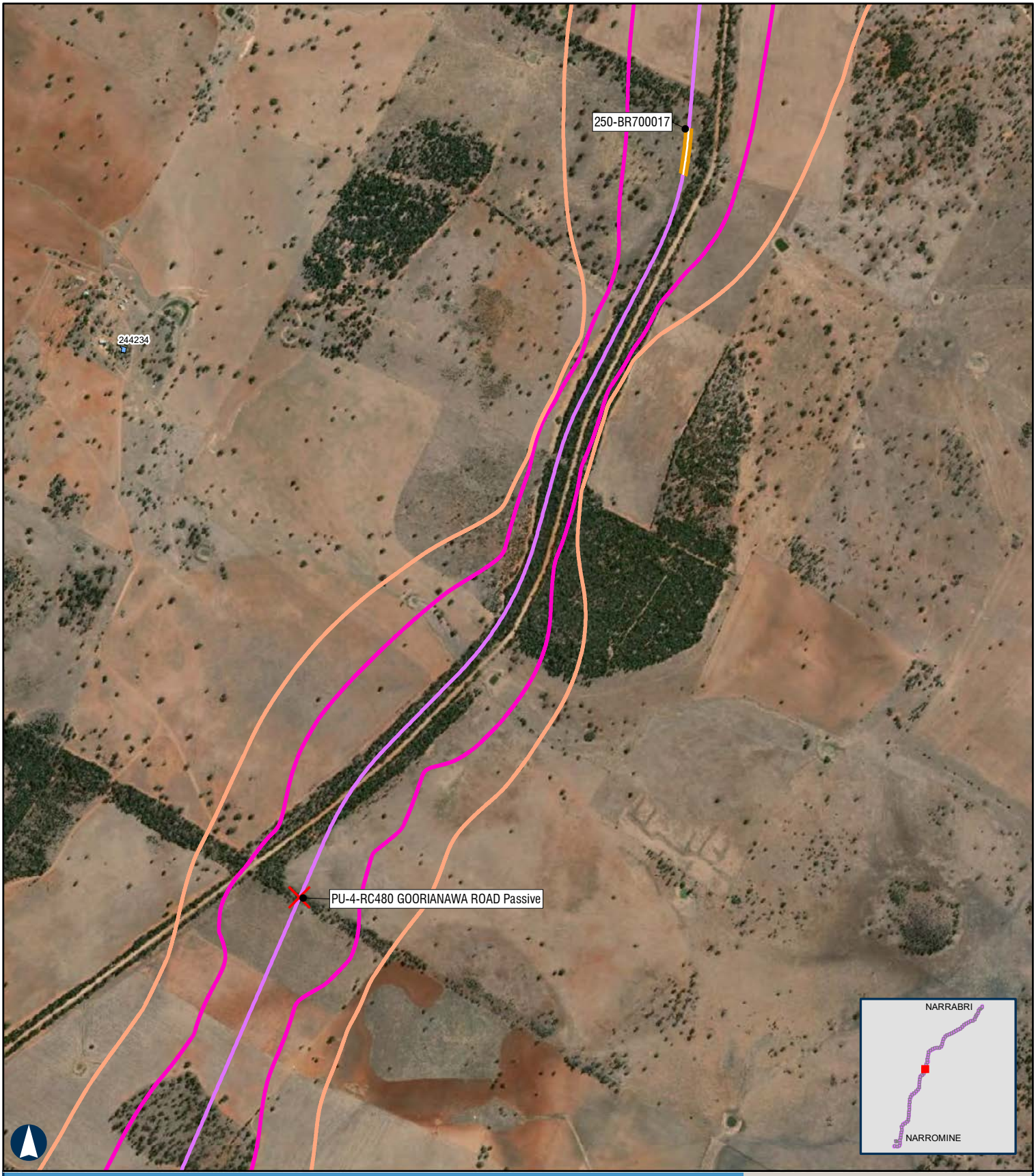


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 127 of 168

500 m

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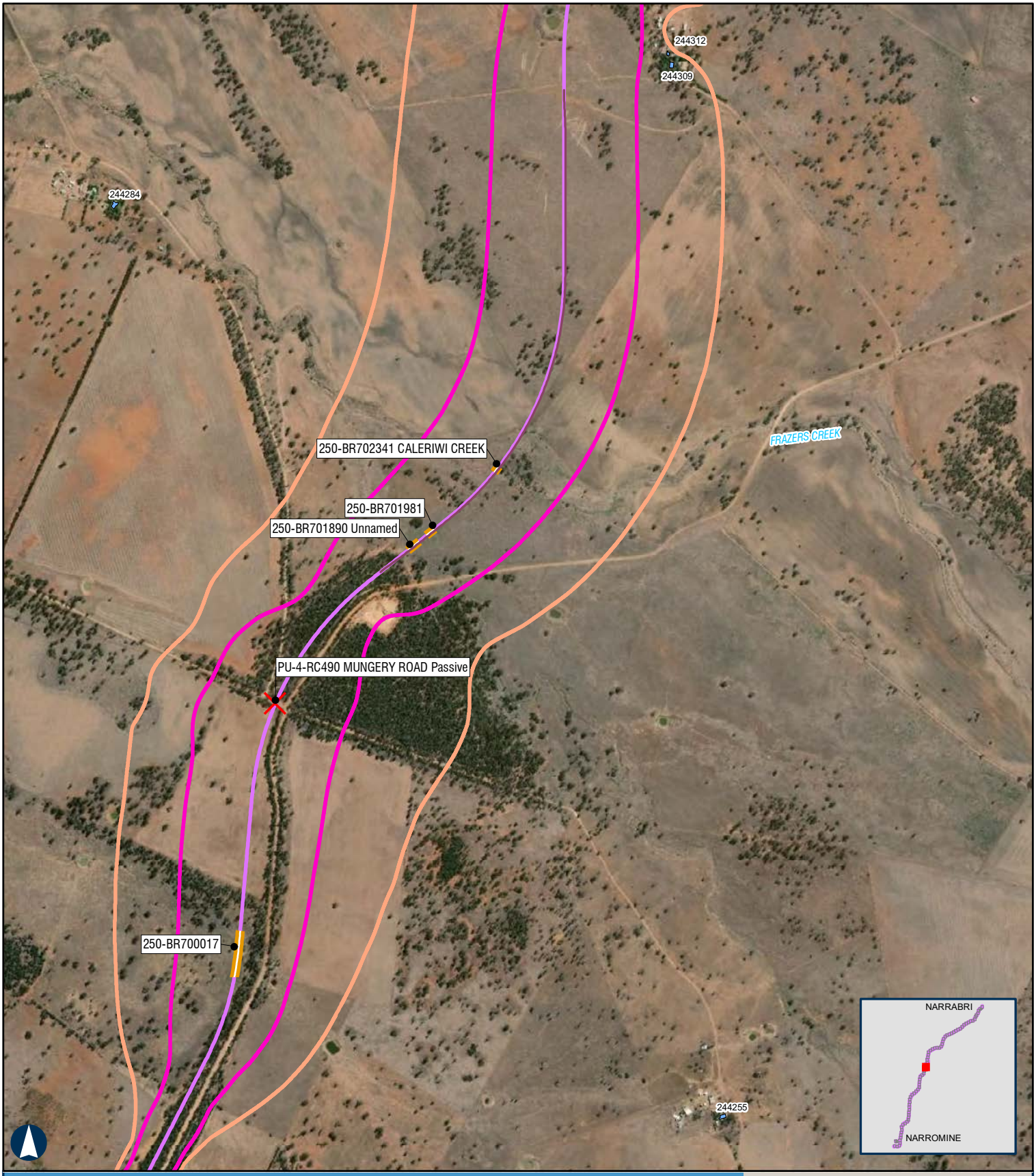


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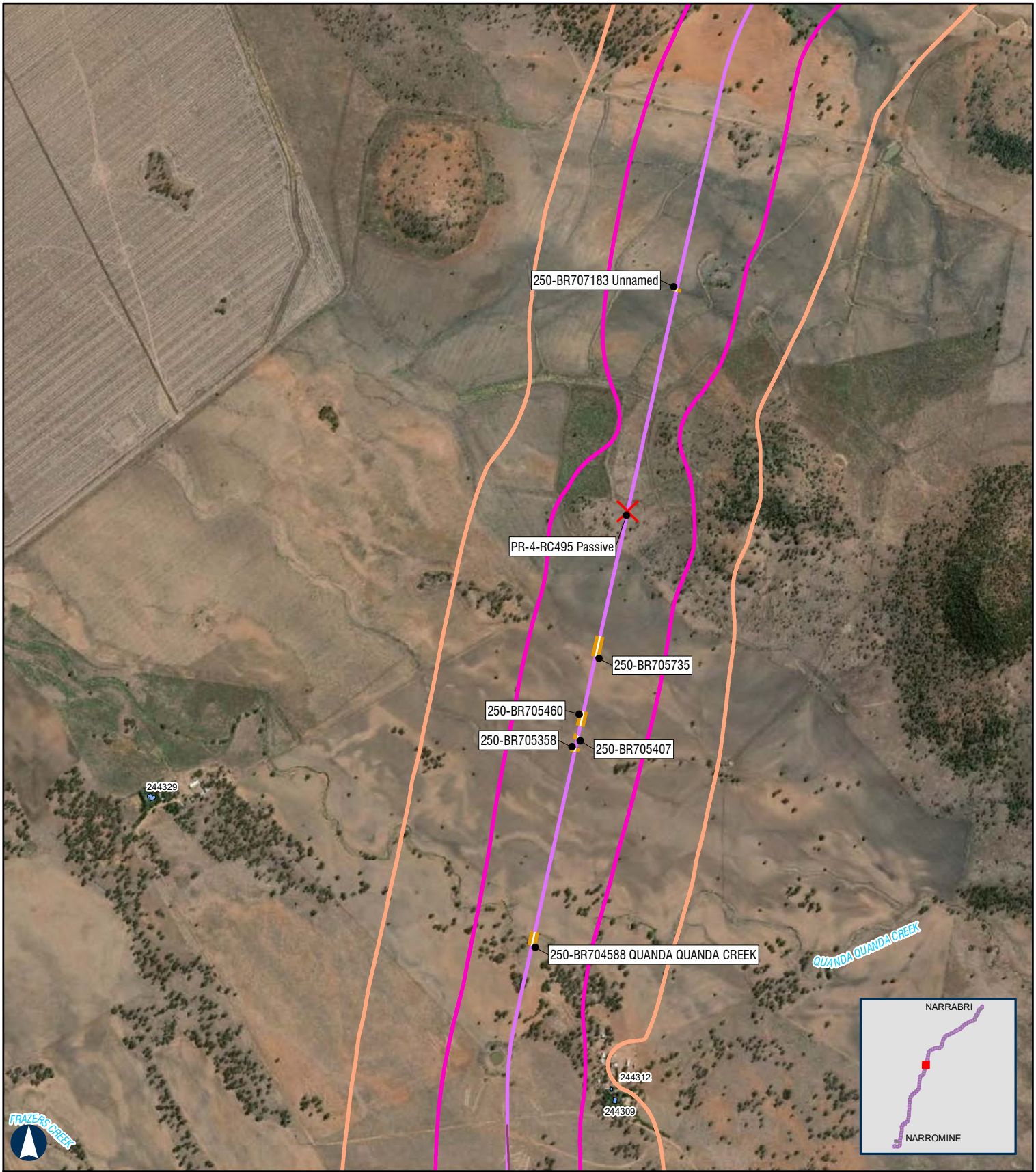


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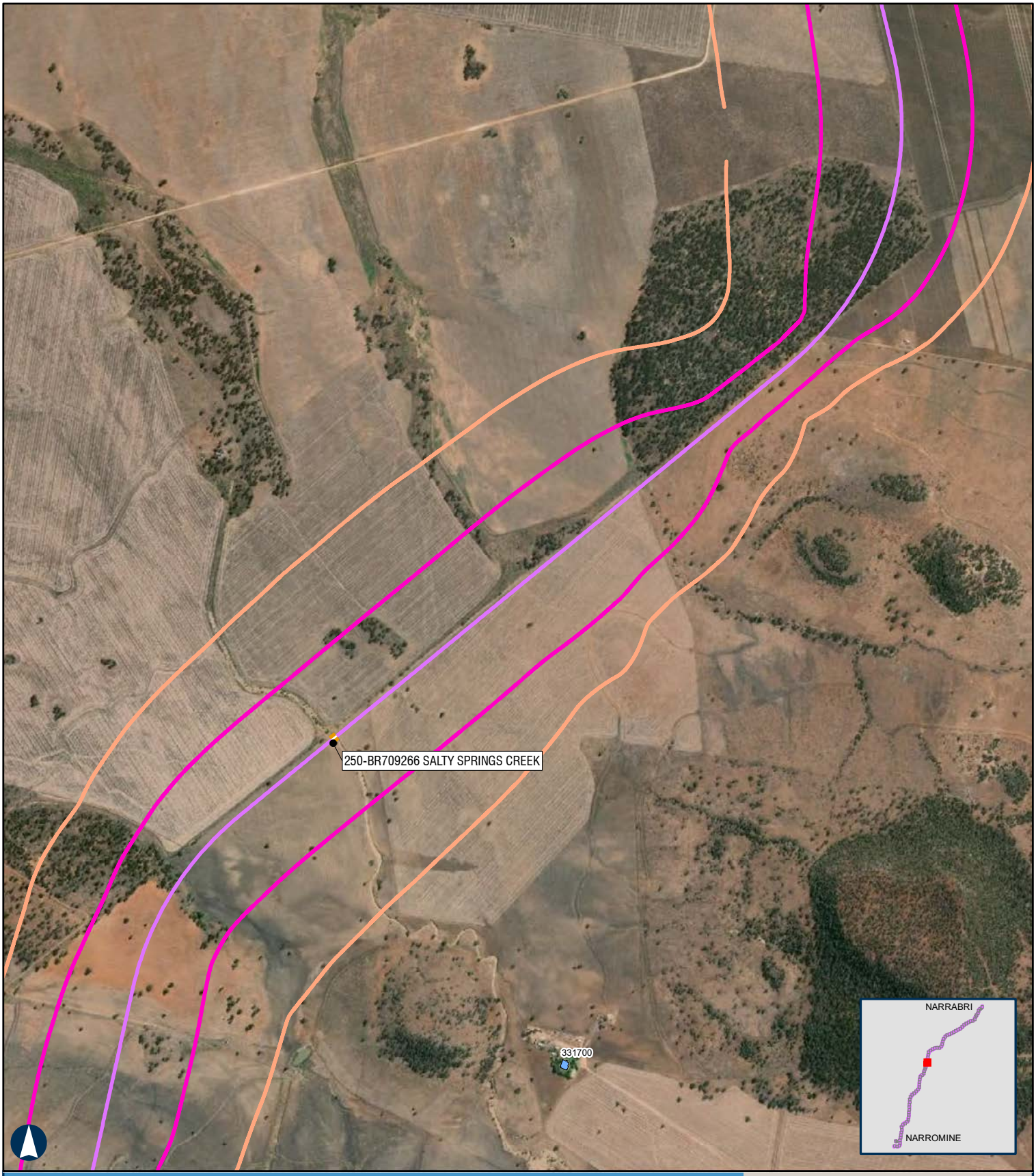


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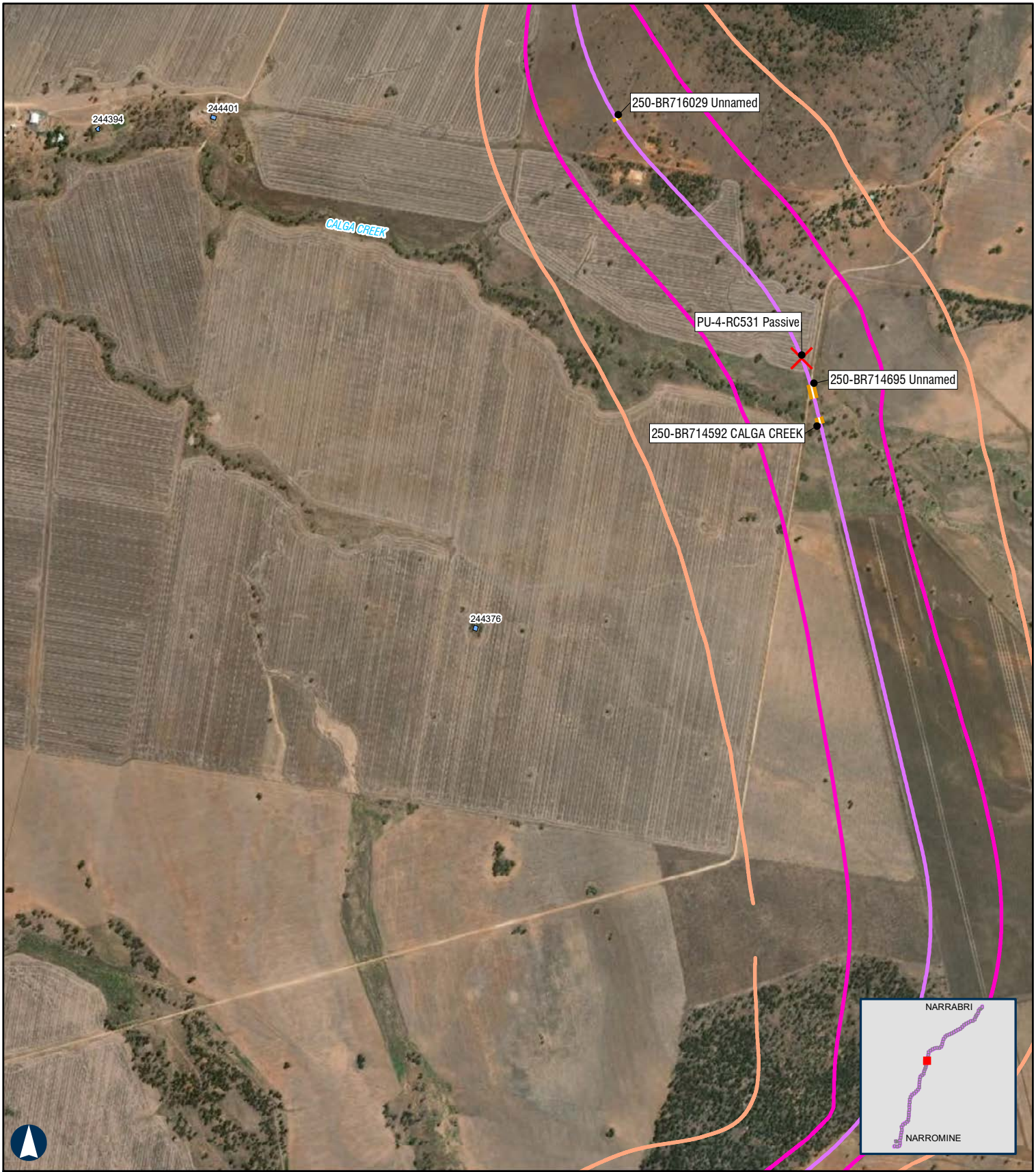


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 131 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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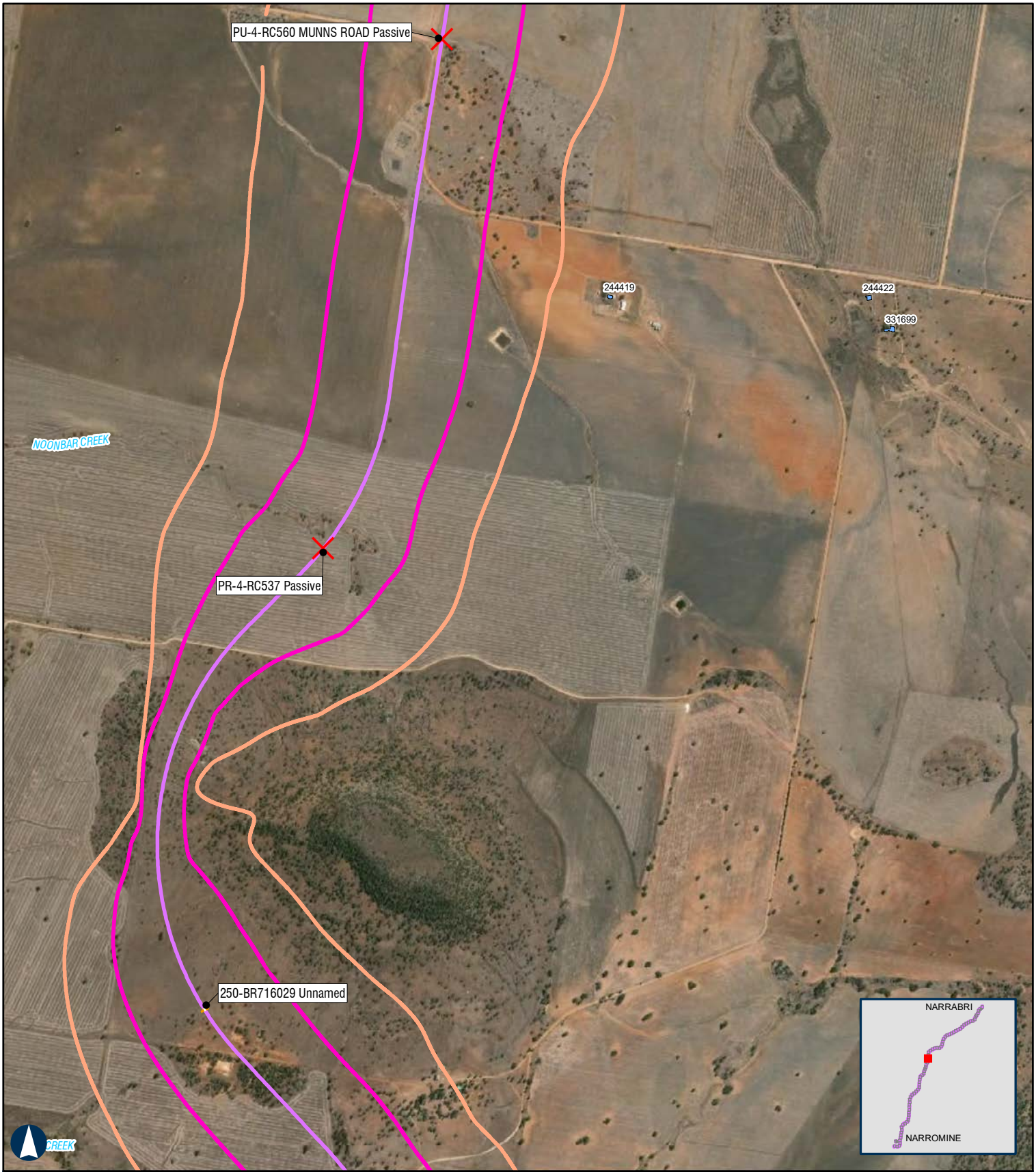


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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 132 of 168

500 m

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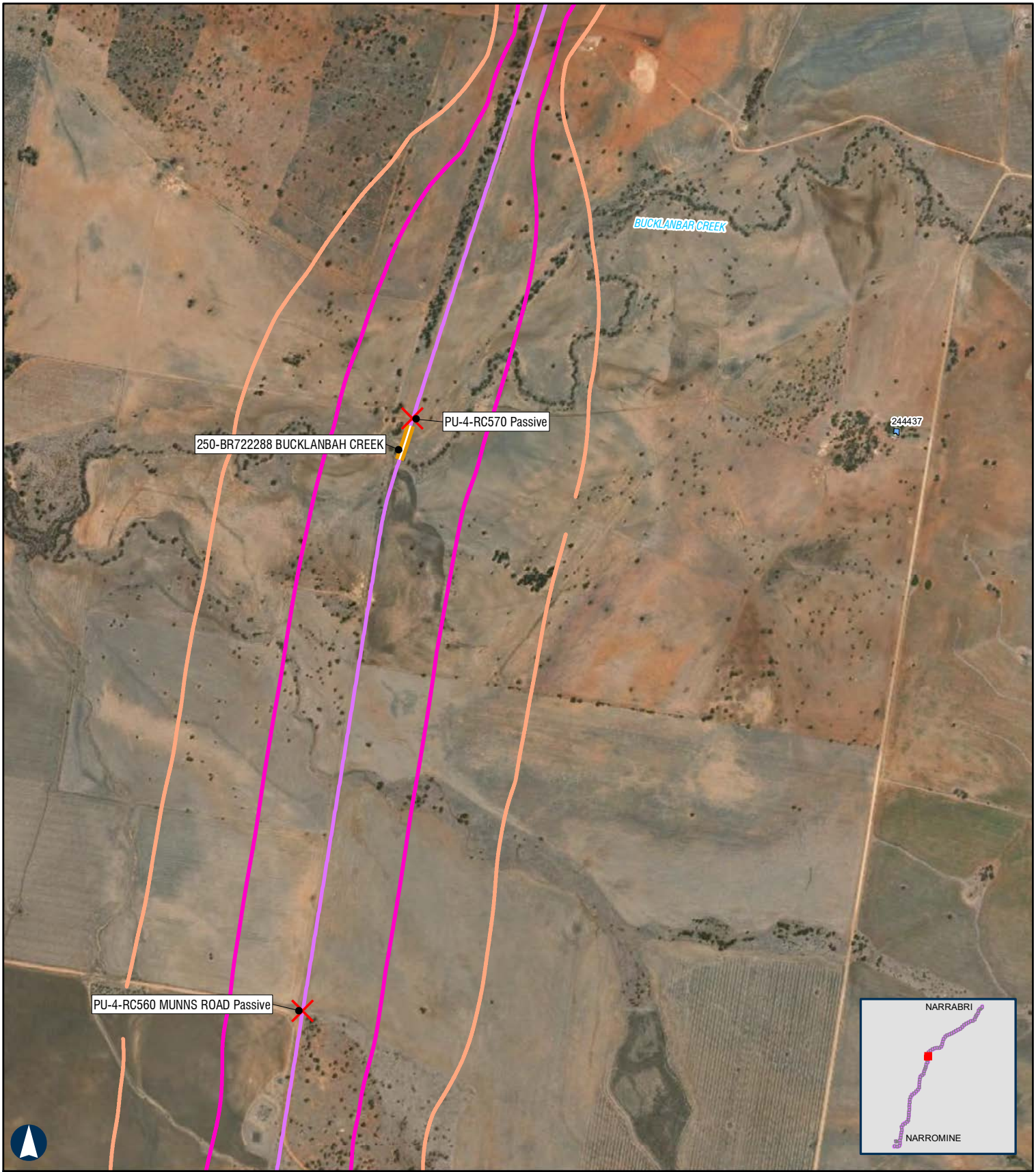


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## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 133 of 168

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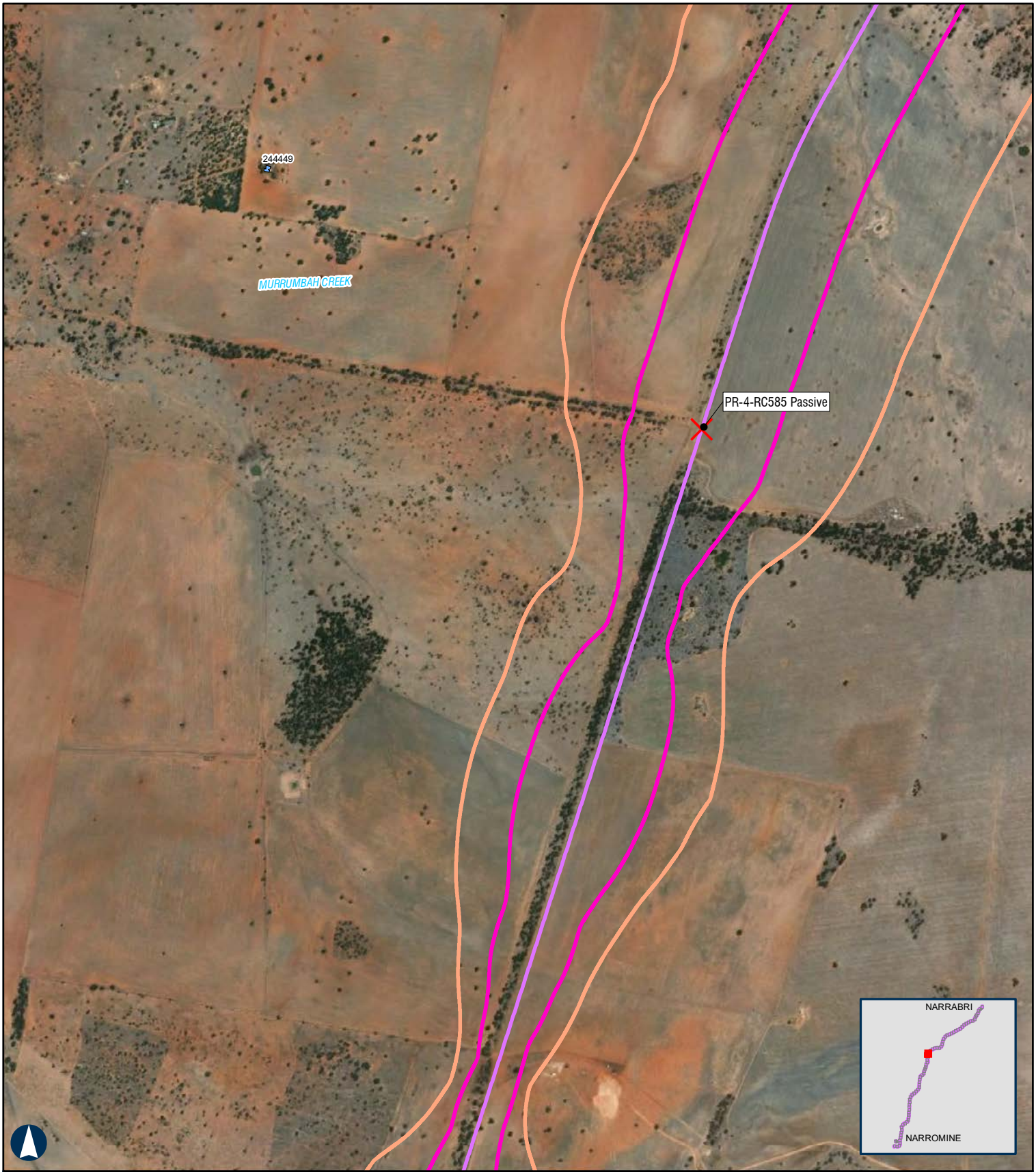


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Year 2040 Night-time Rail Noise Levels

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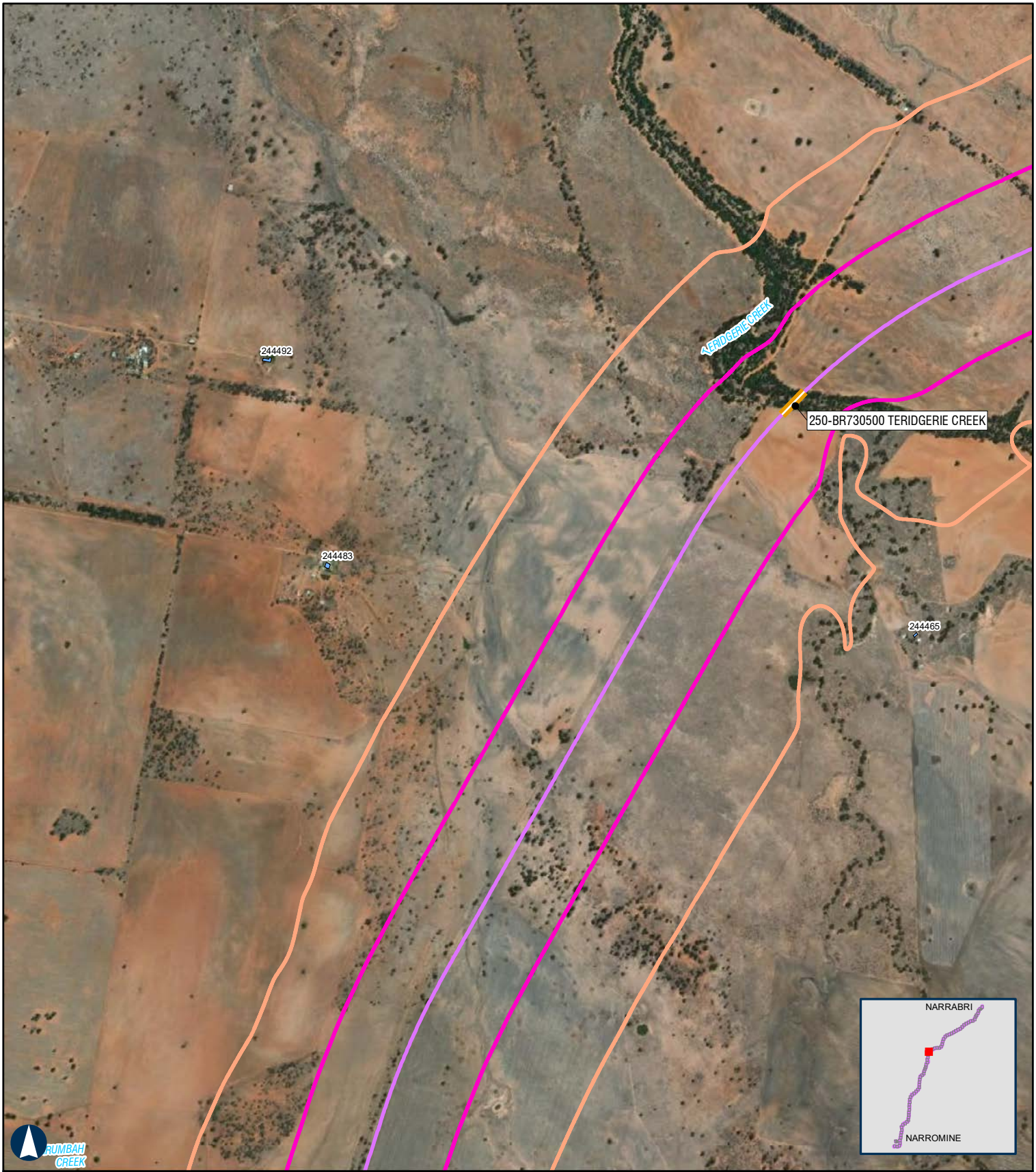


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## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 135 of 168

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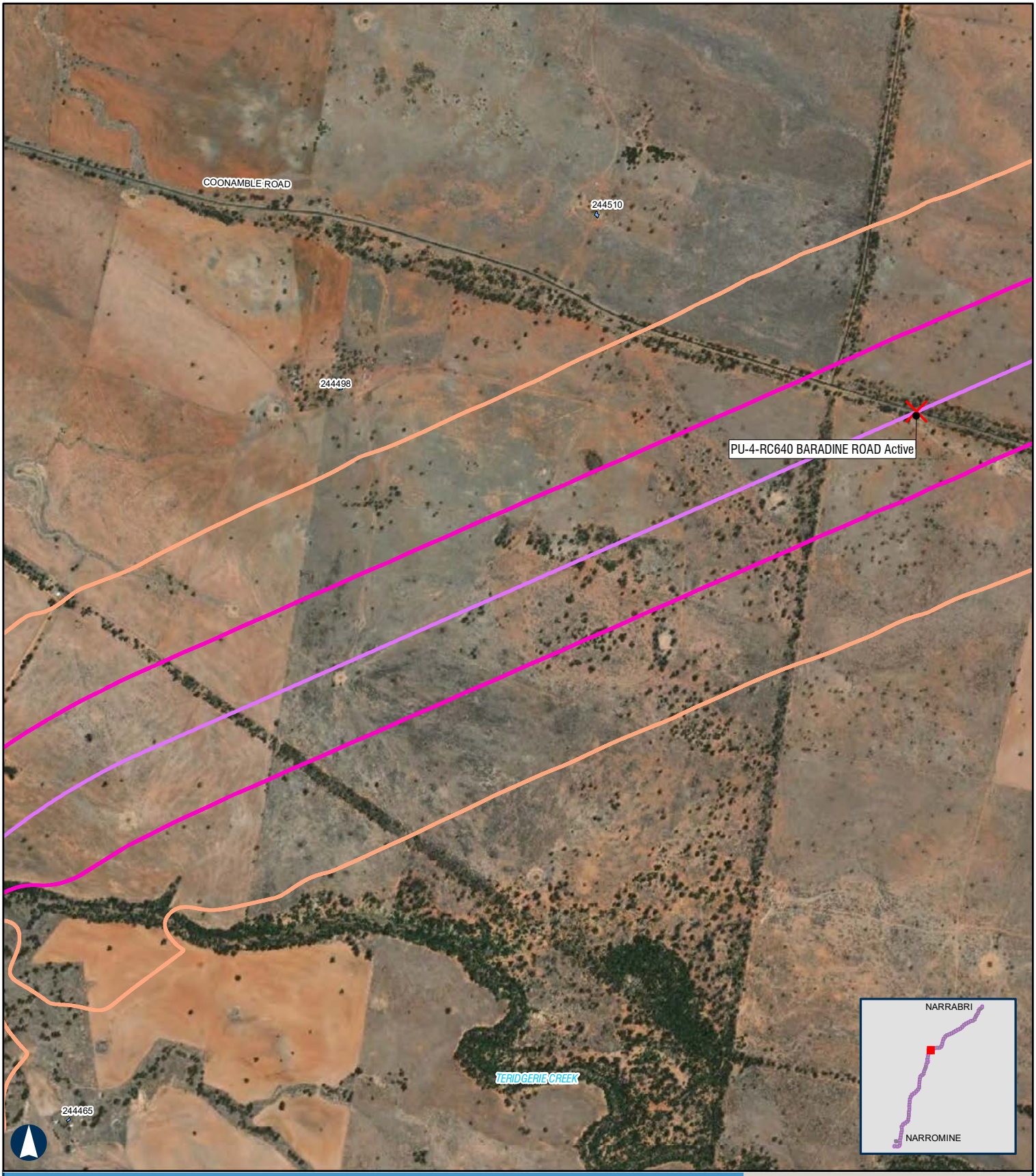


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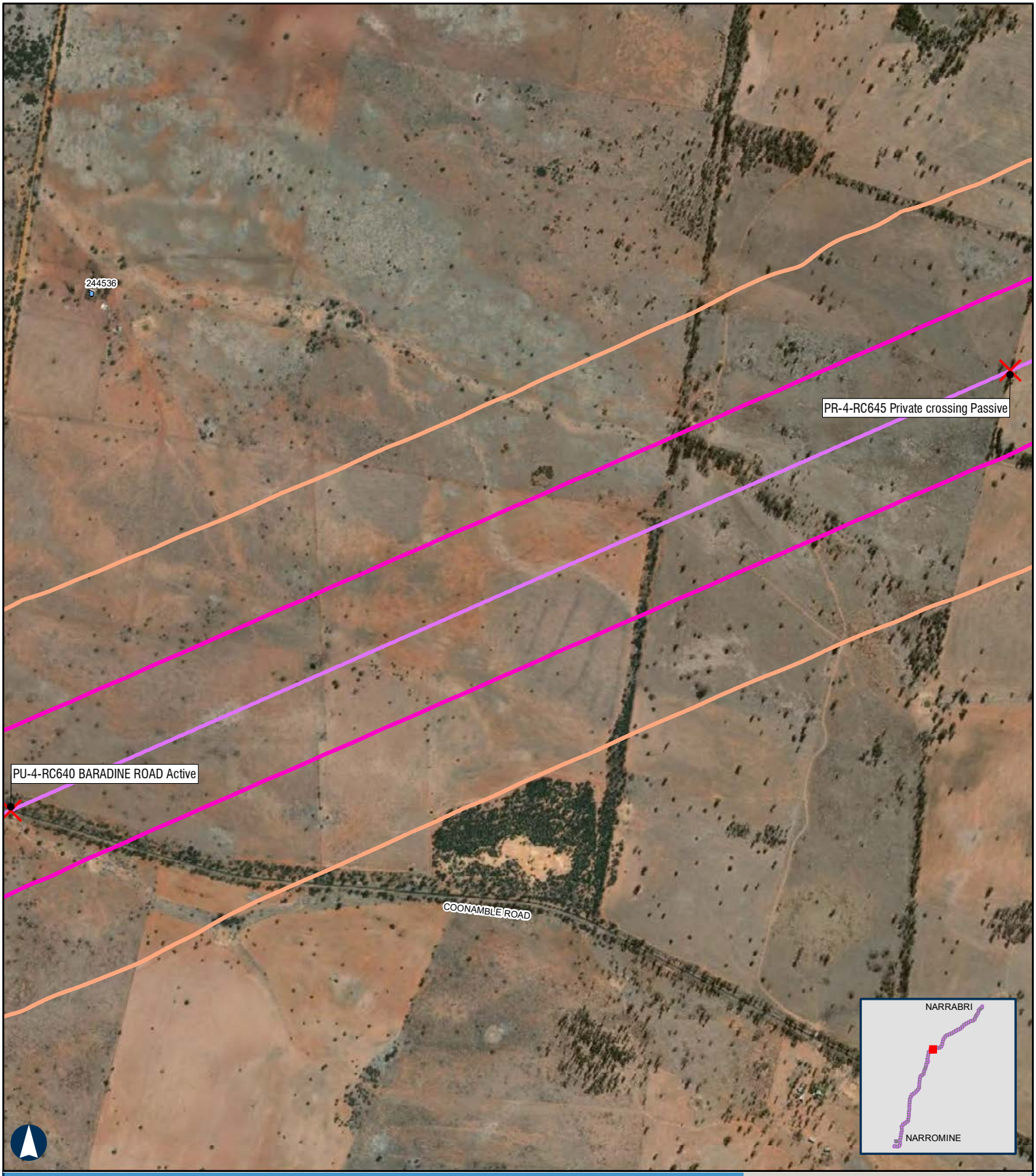


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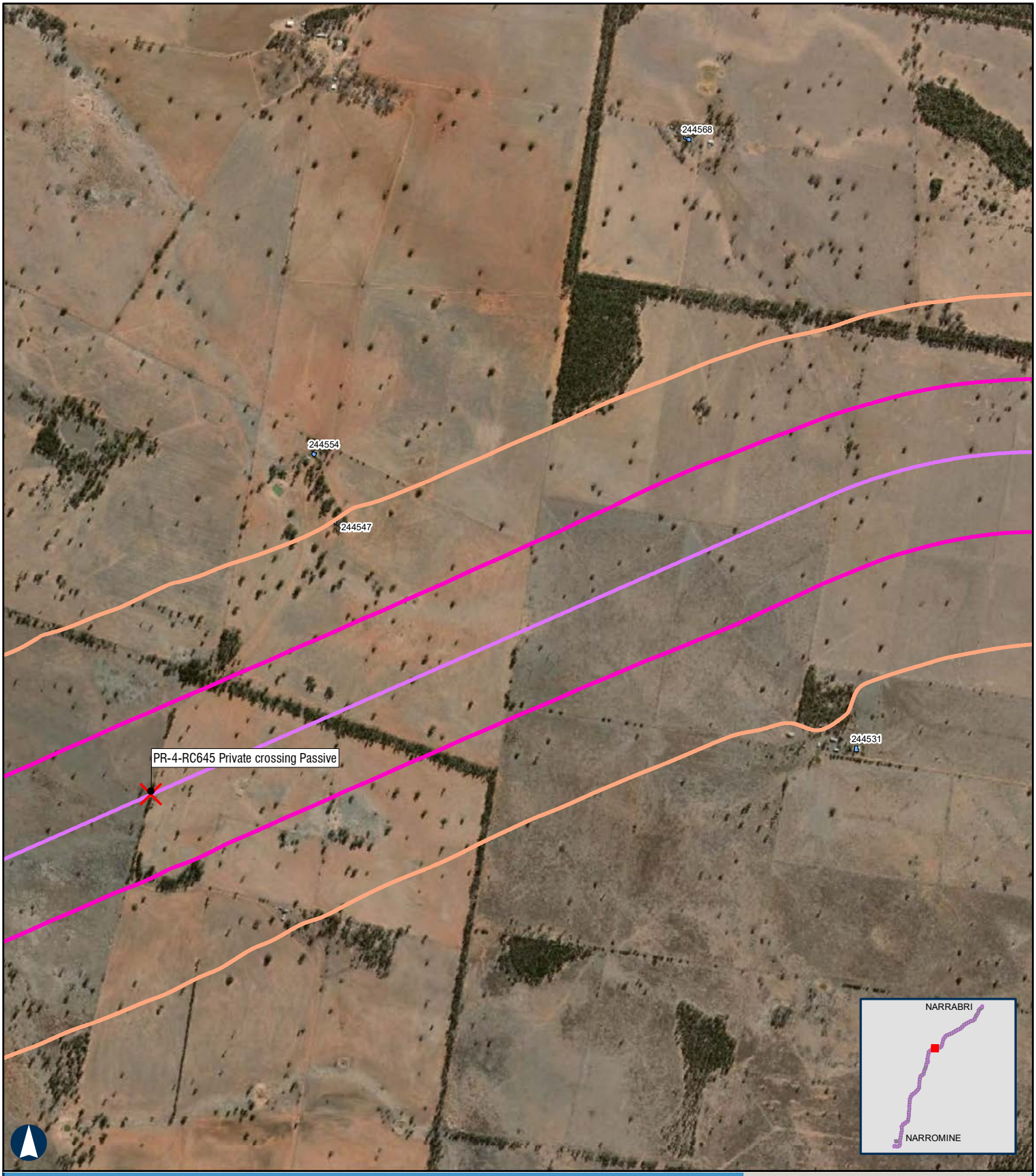


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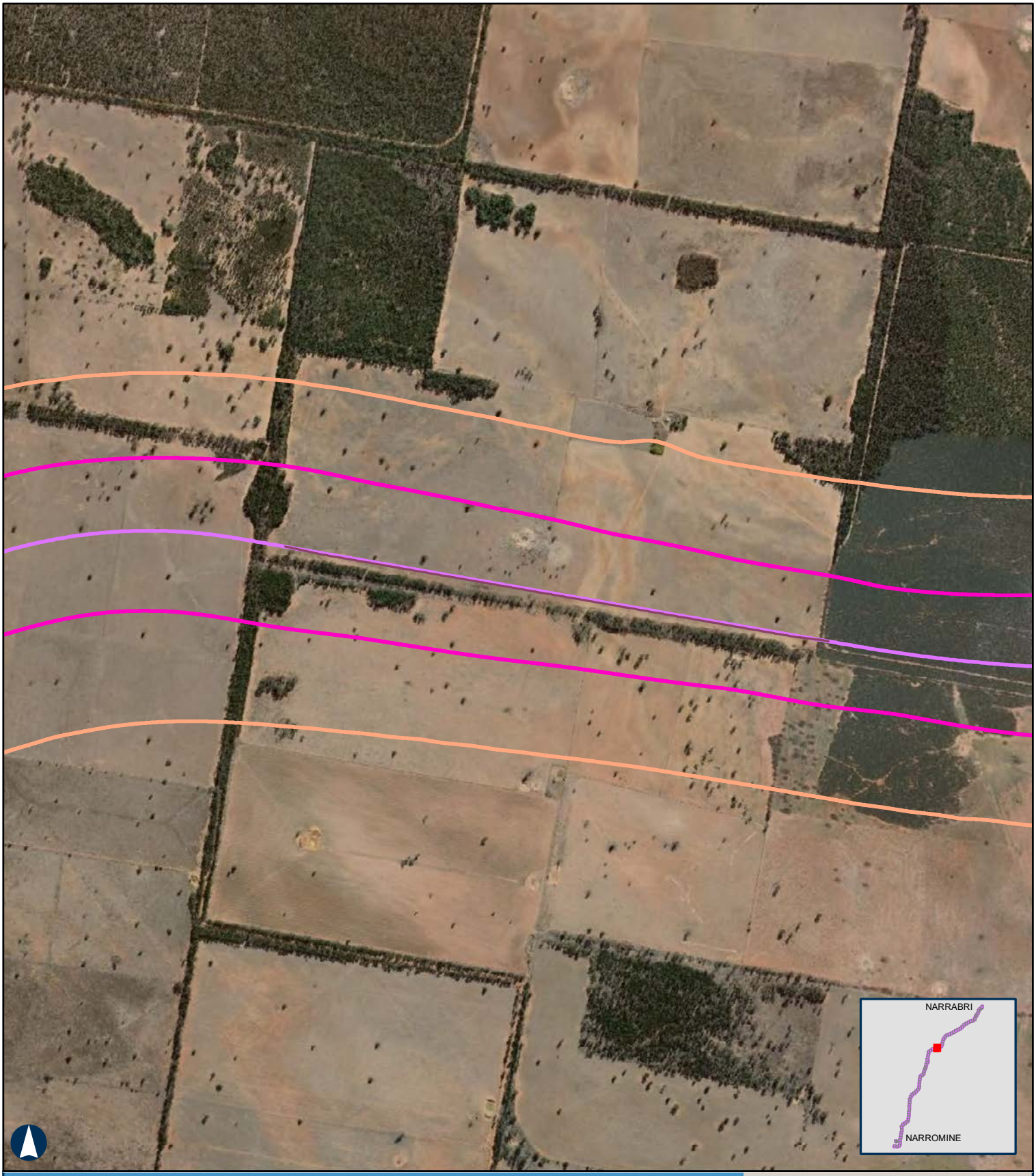


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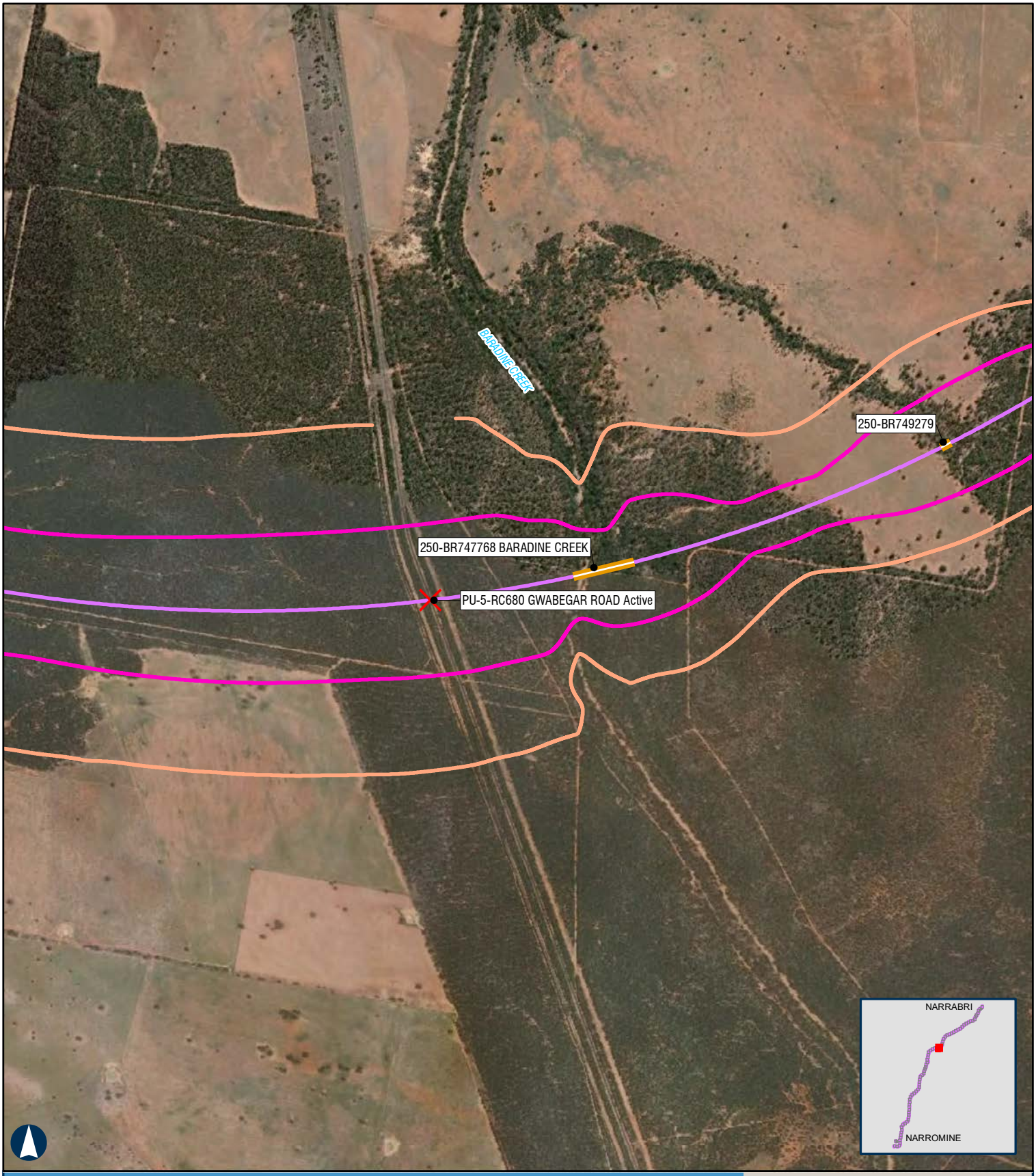


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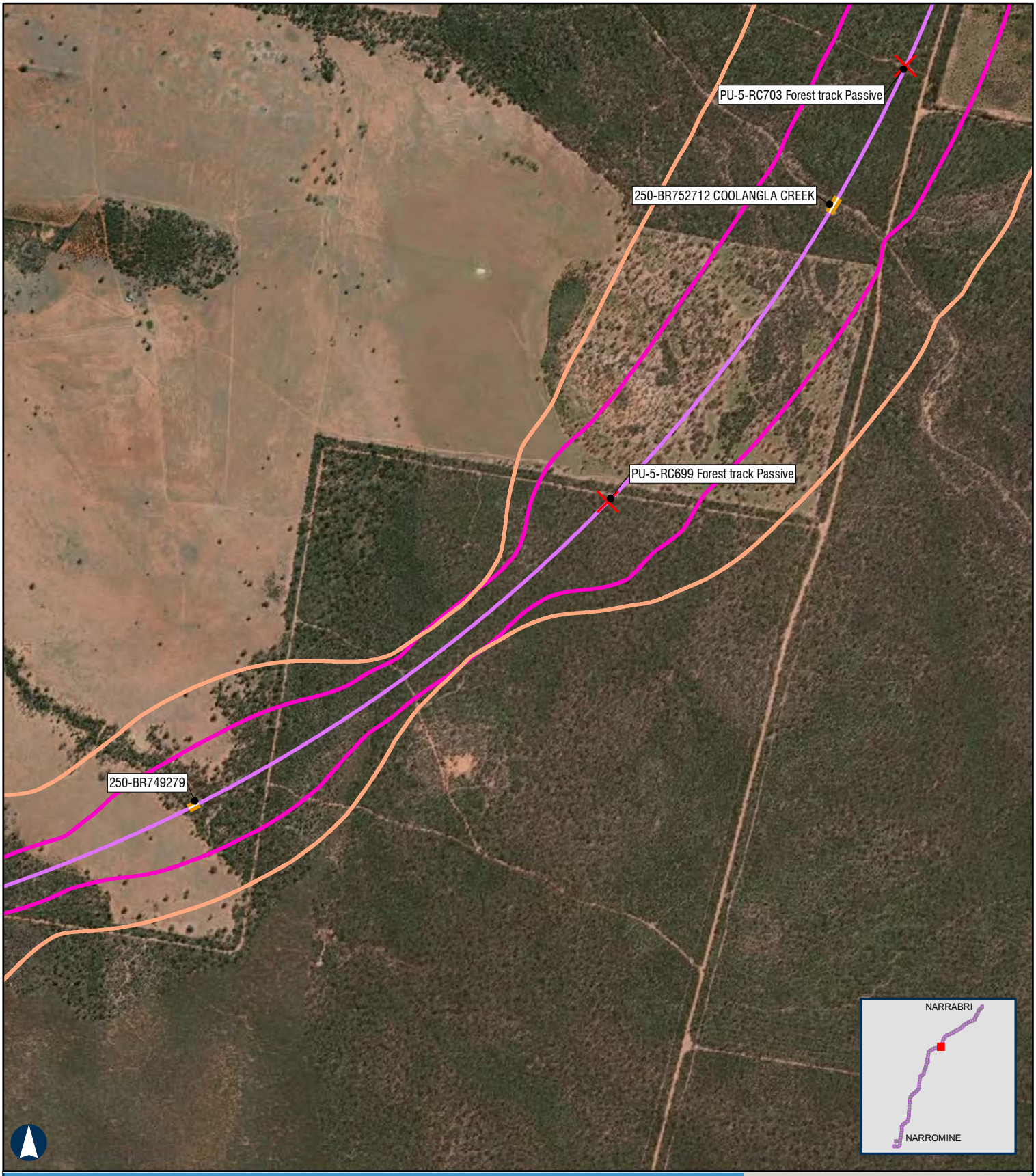


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Year 2040 Night-time Rail Noise Levels

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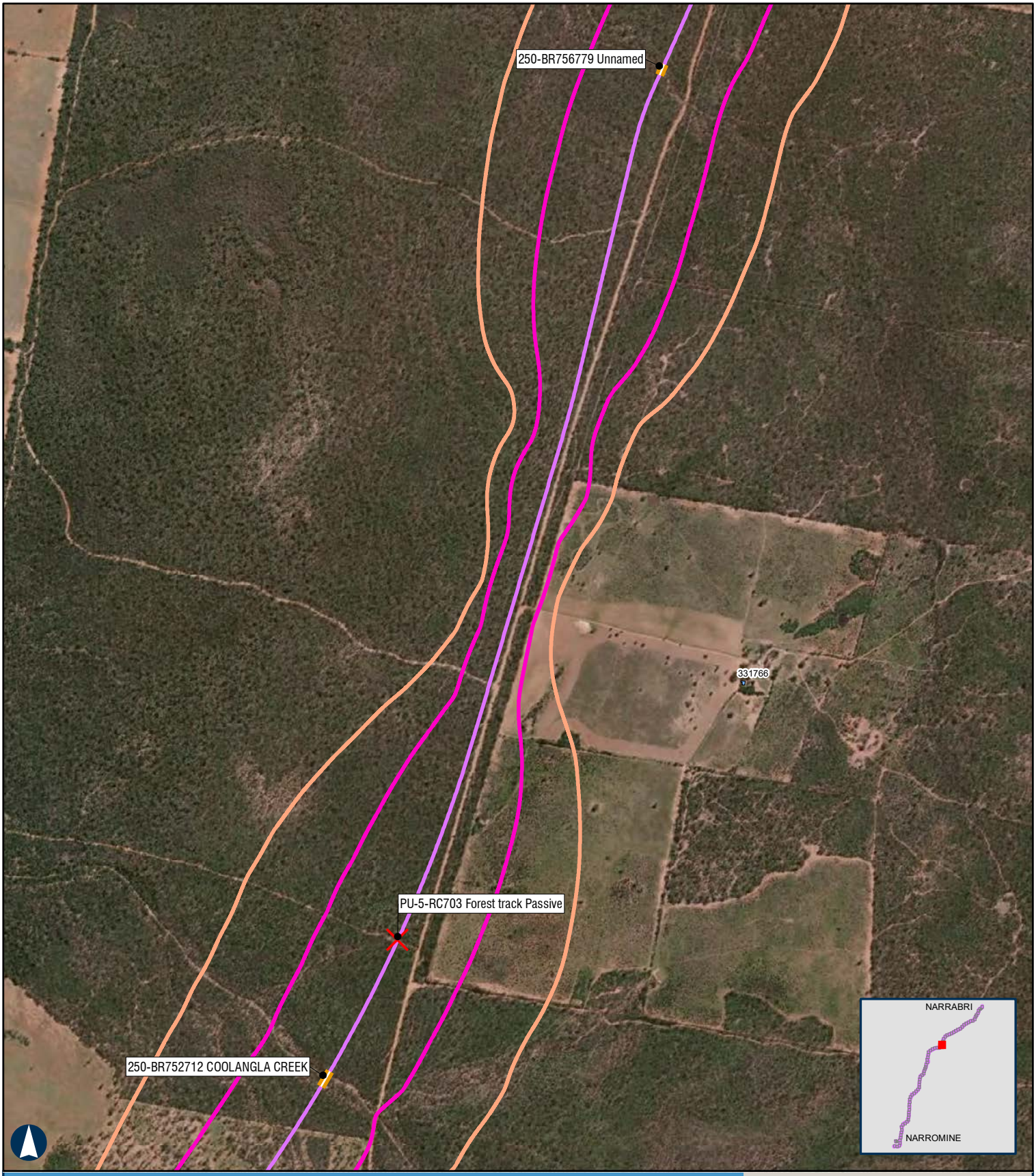


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 142 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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

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
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ARTC InlandRail

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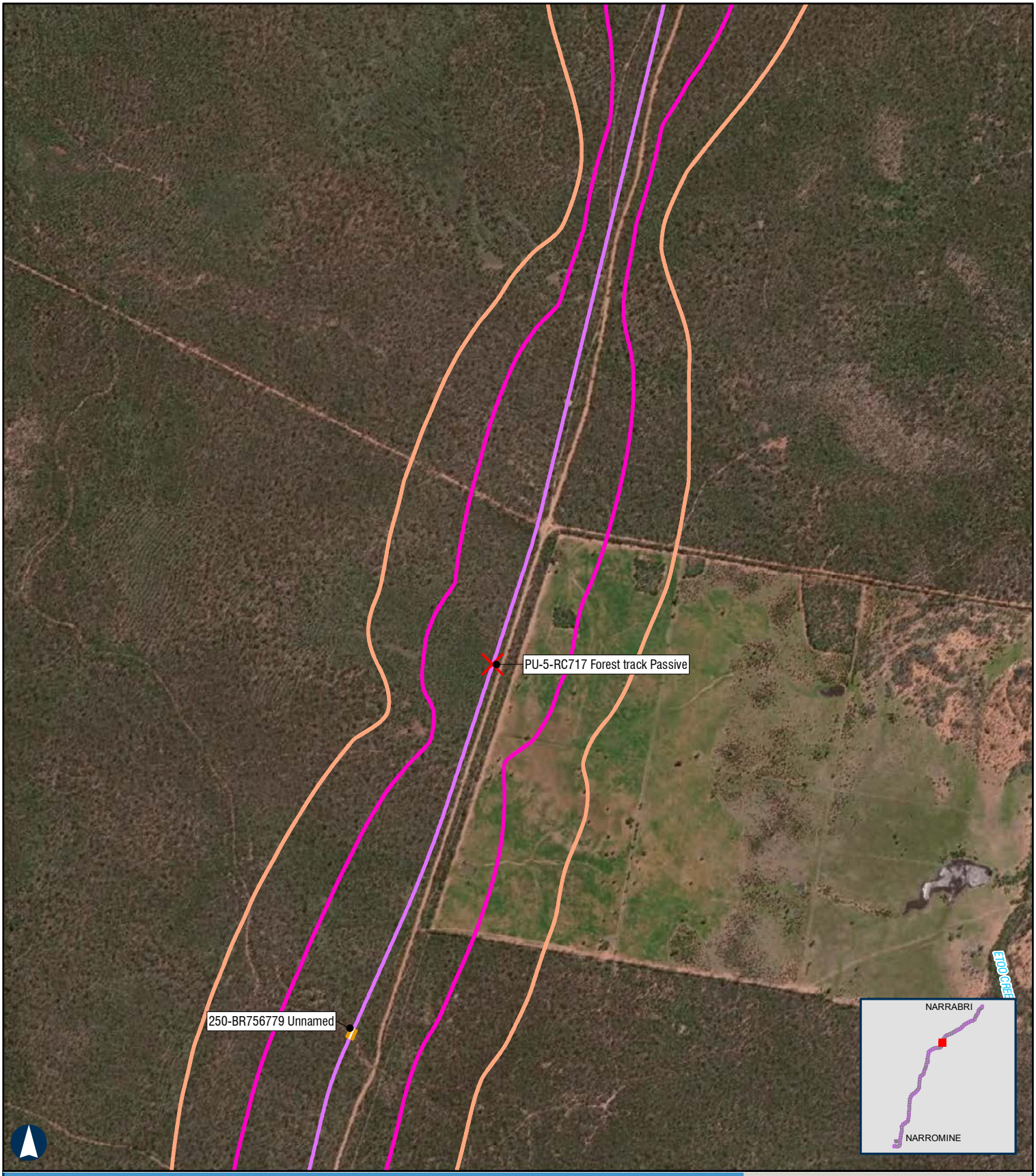


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Year 2040 Night-time Rail Noise Levels



500 m

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Date: 01-Sep-2020
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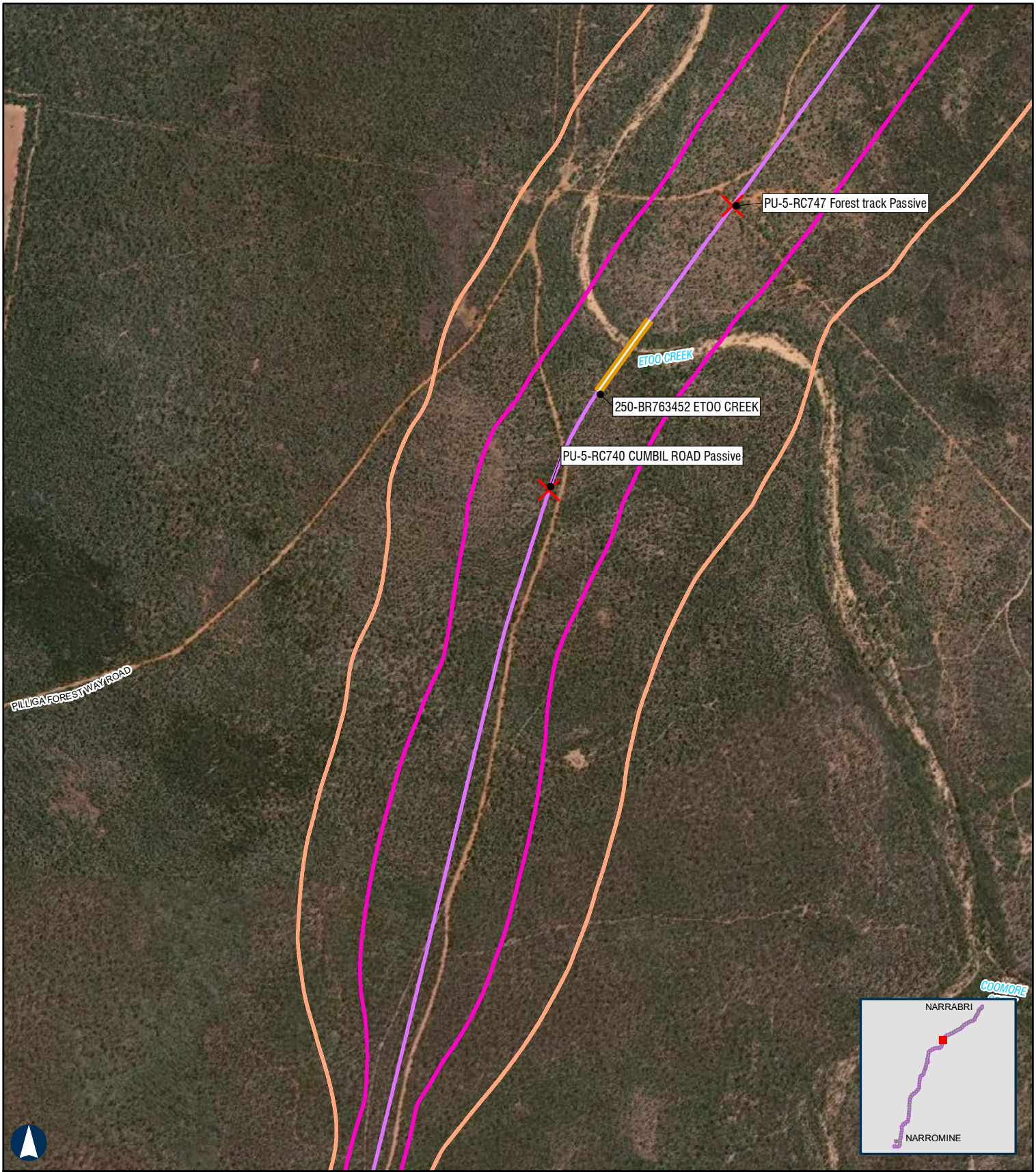


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 144 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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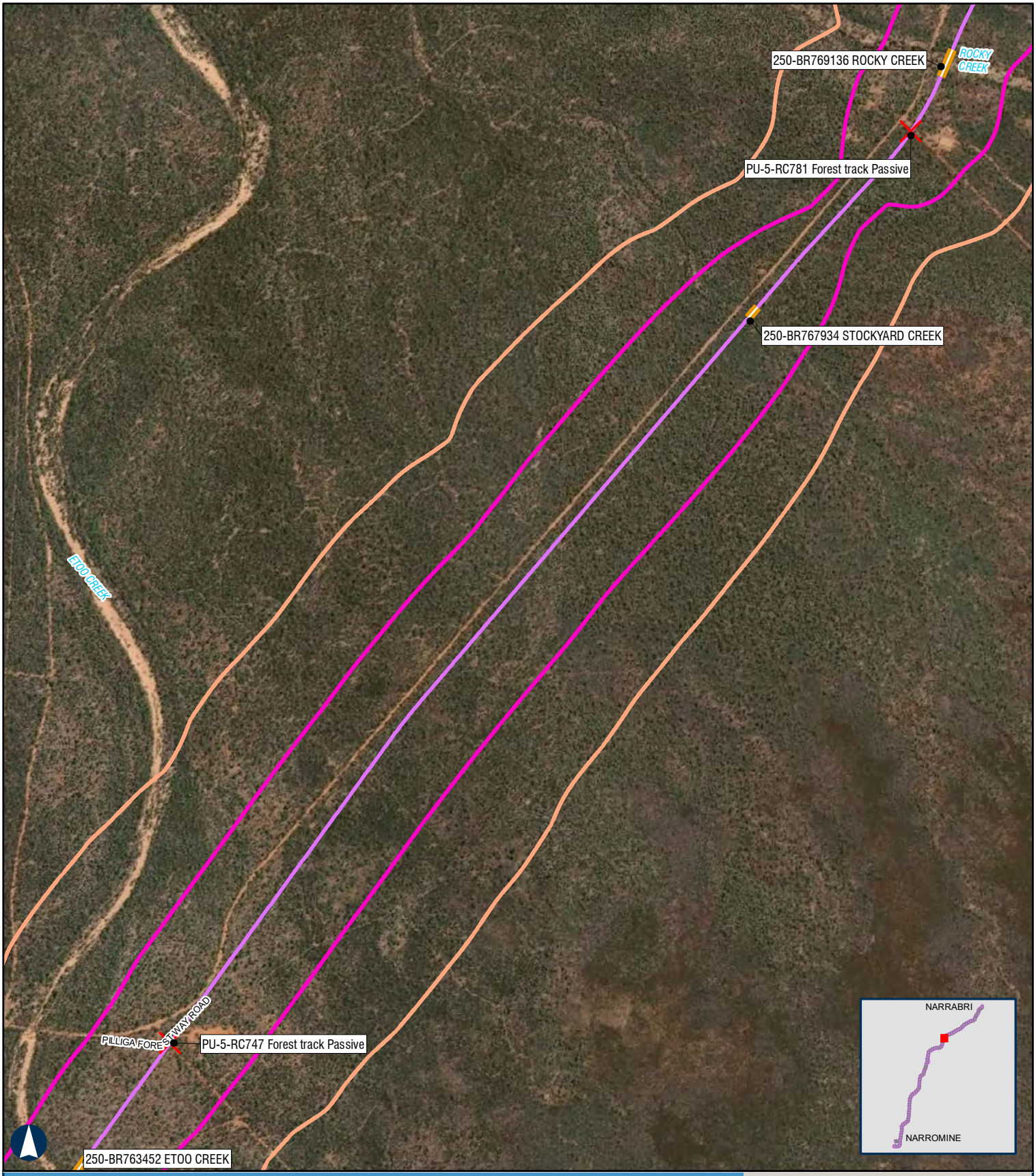


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Year 2040 Night-time Rail Noise Levels



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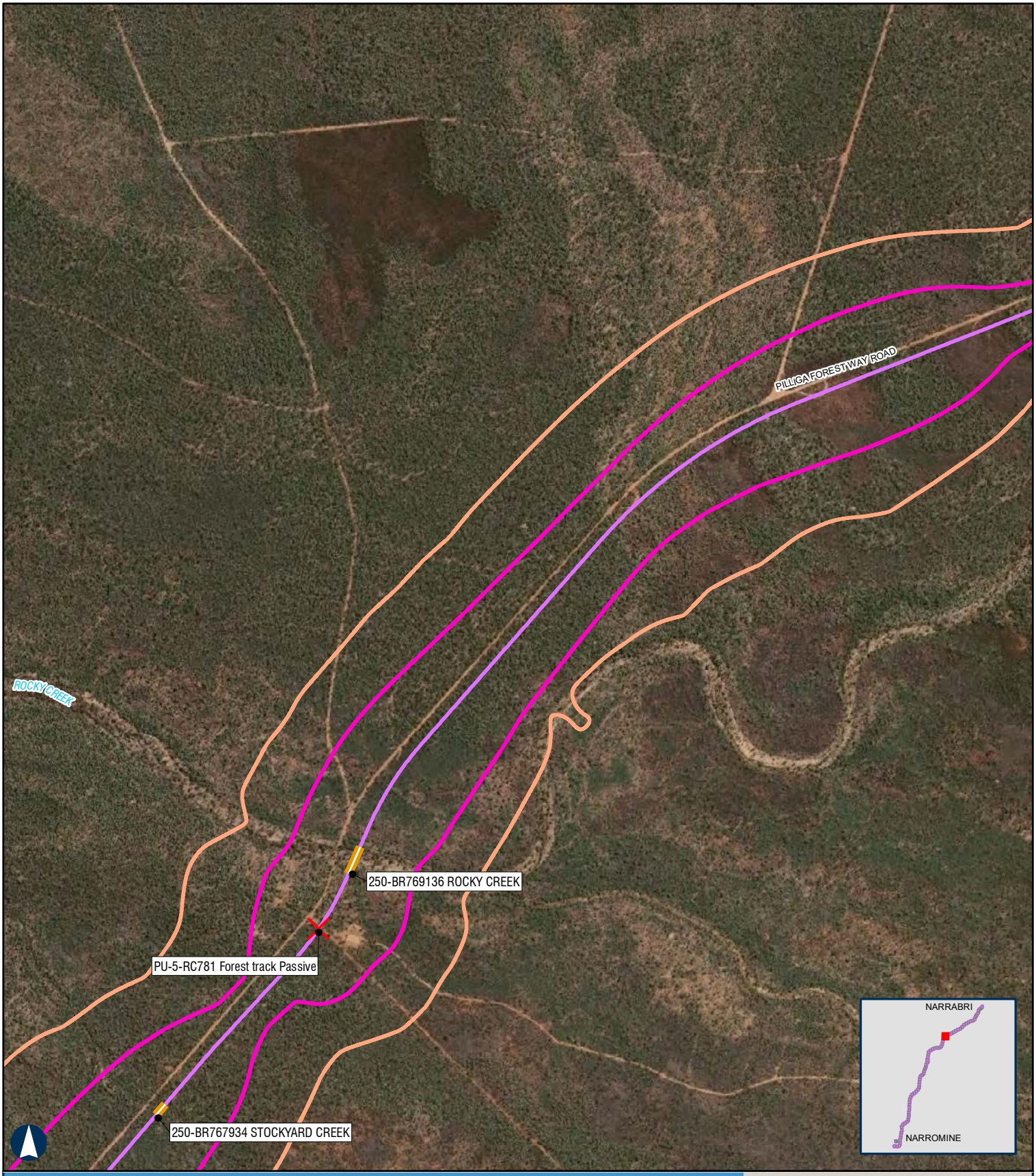


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 146 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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Date: 01-Sep-2020
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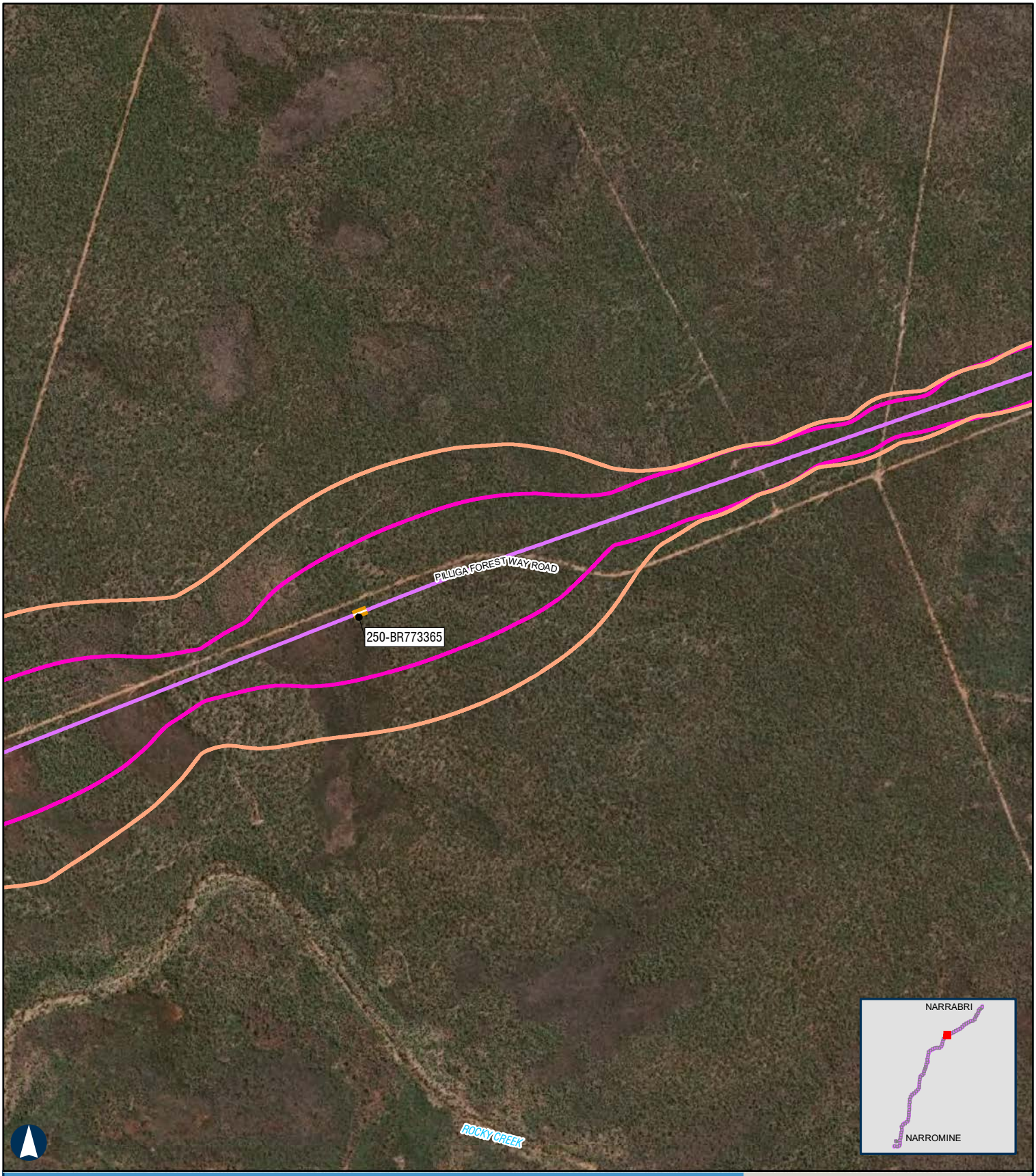


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels



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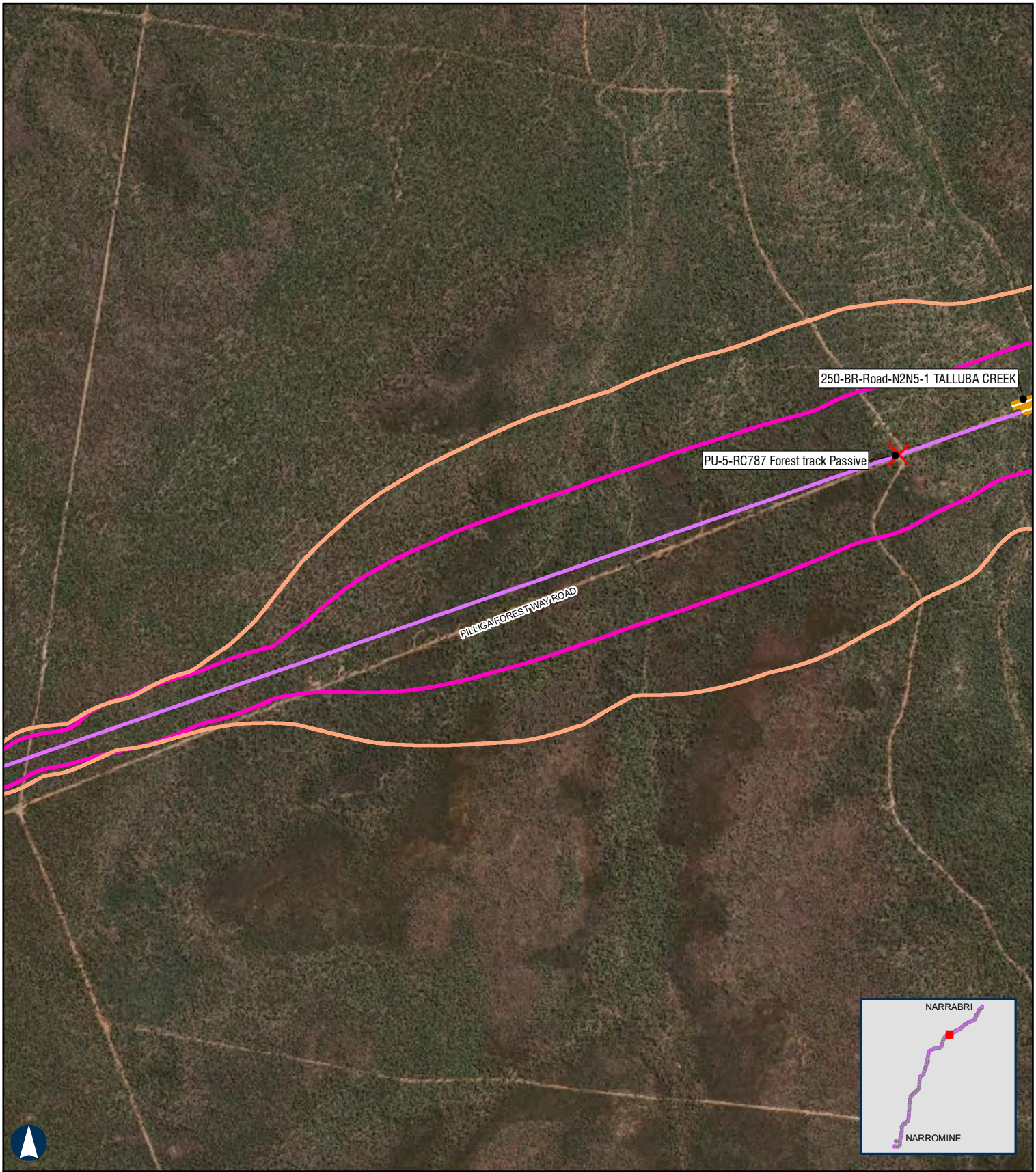


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 148 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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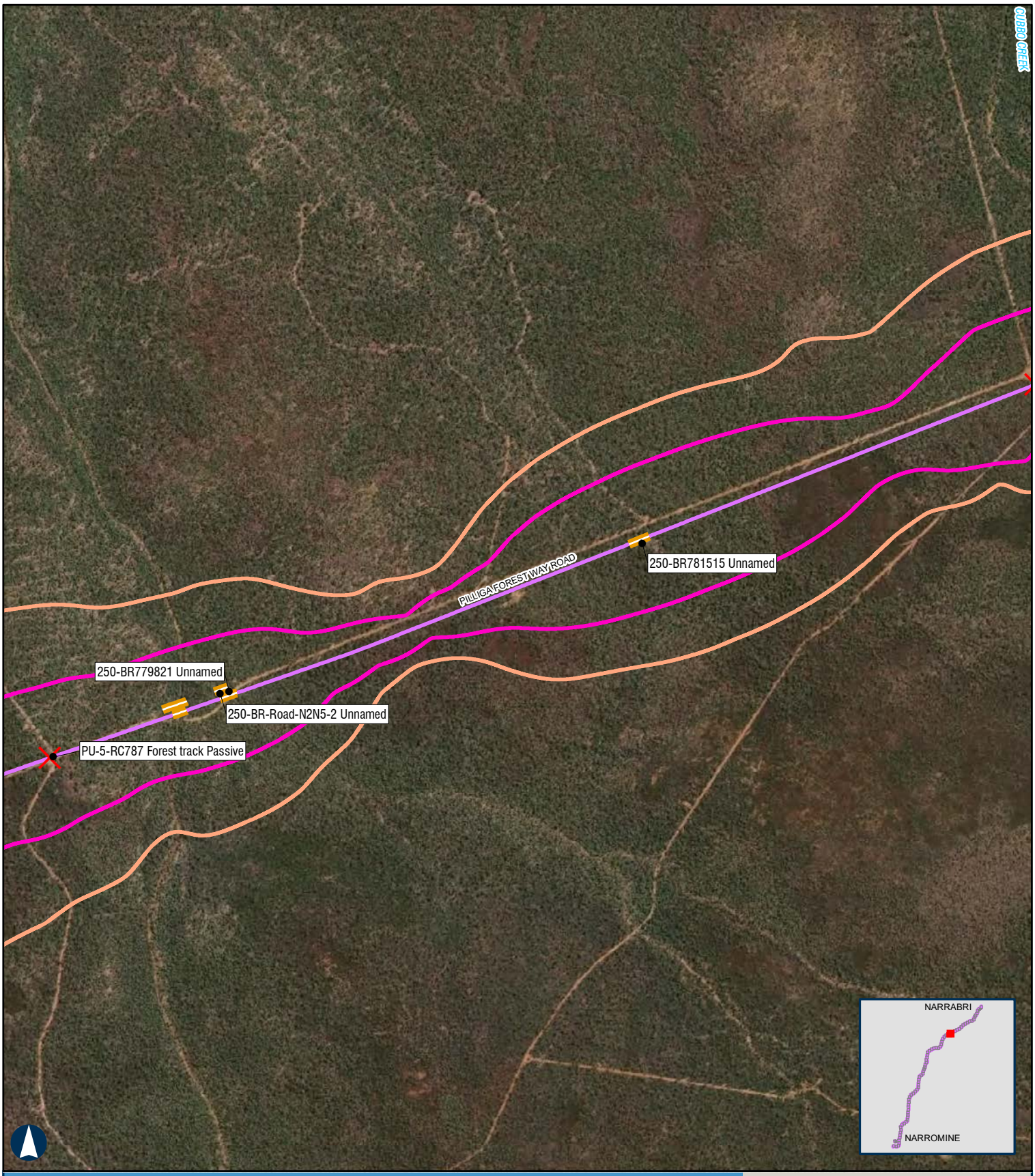


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 149 of 168

500 m

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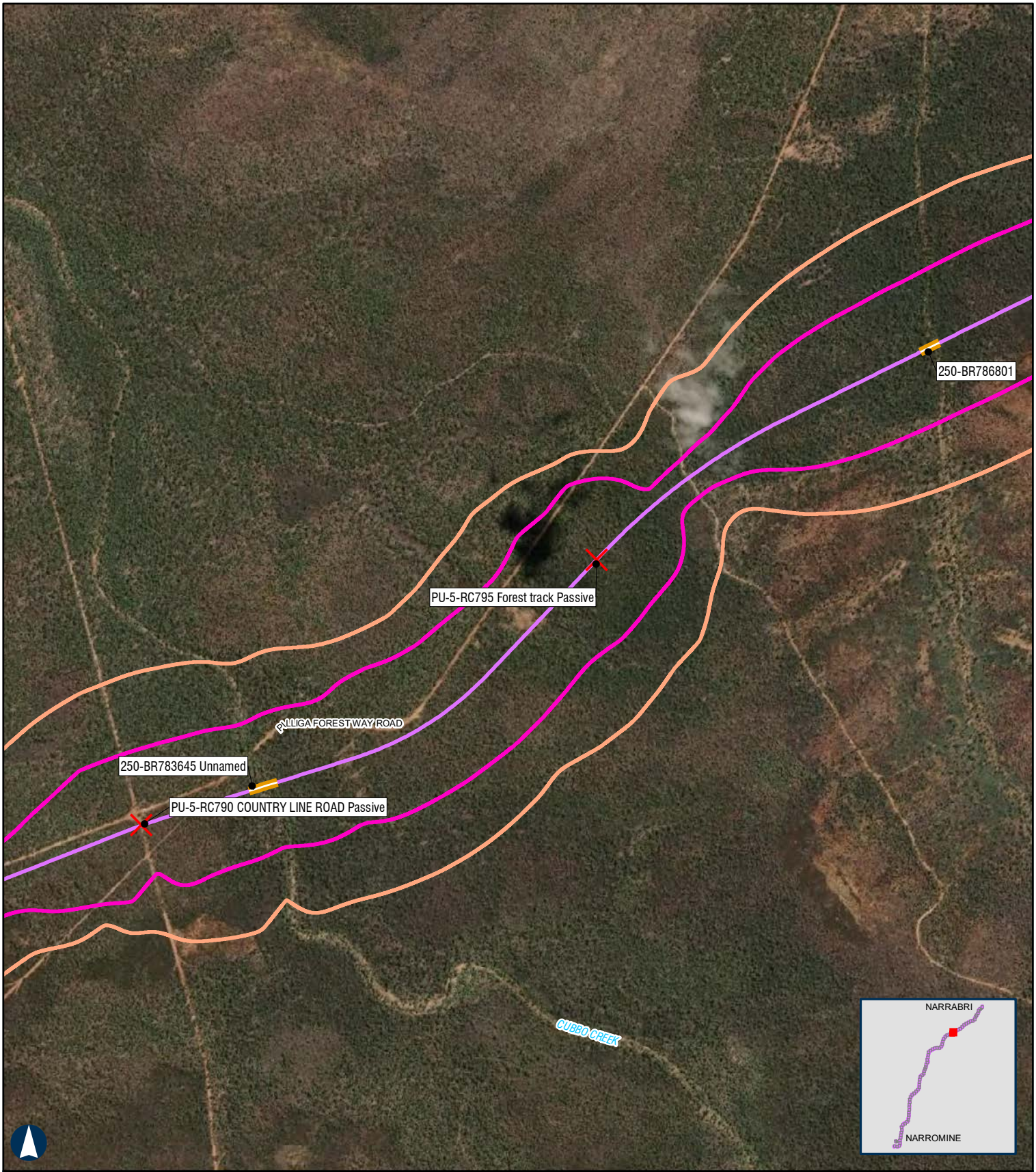


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 150 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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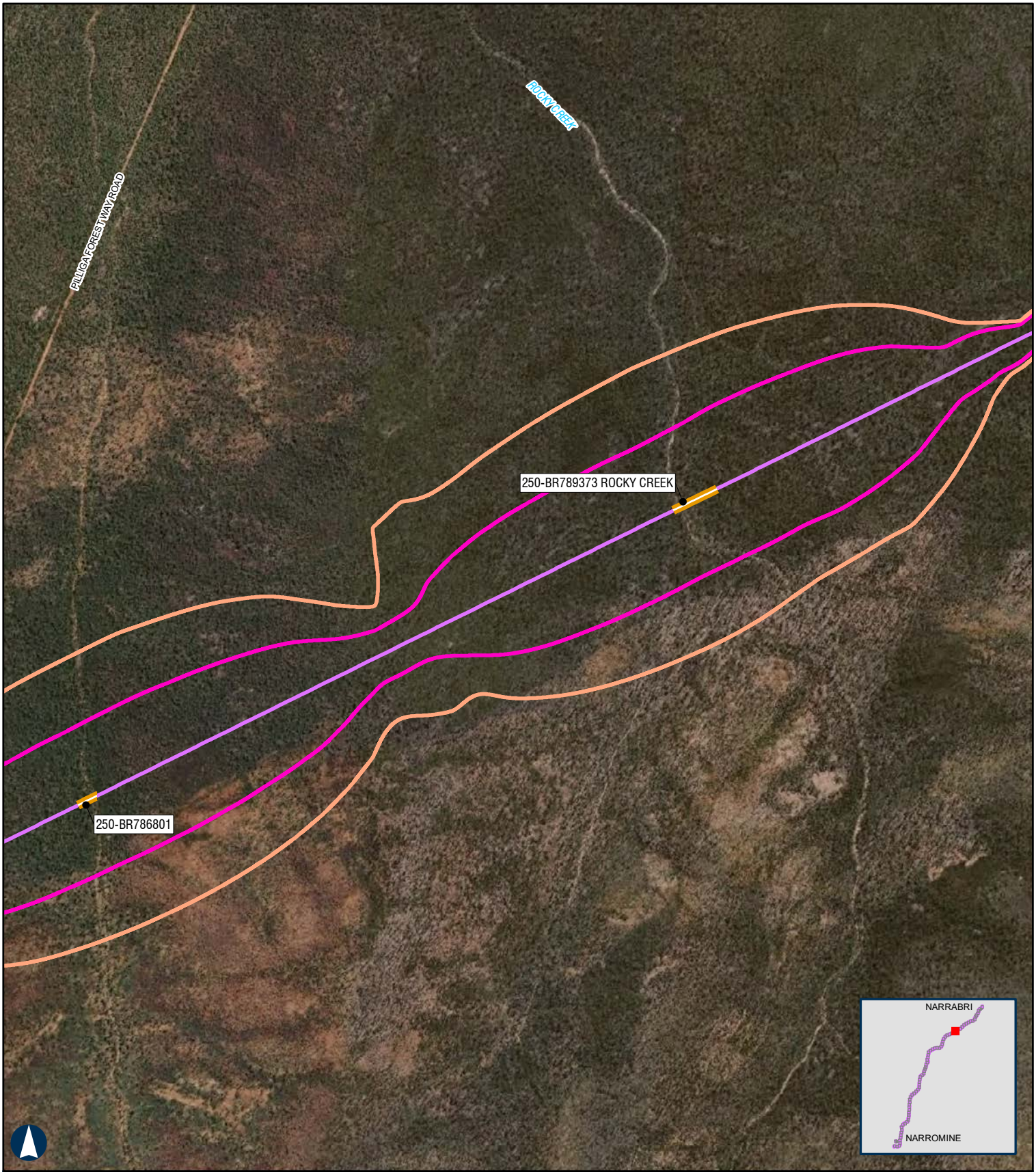


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 151 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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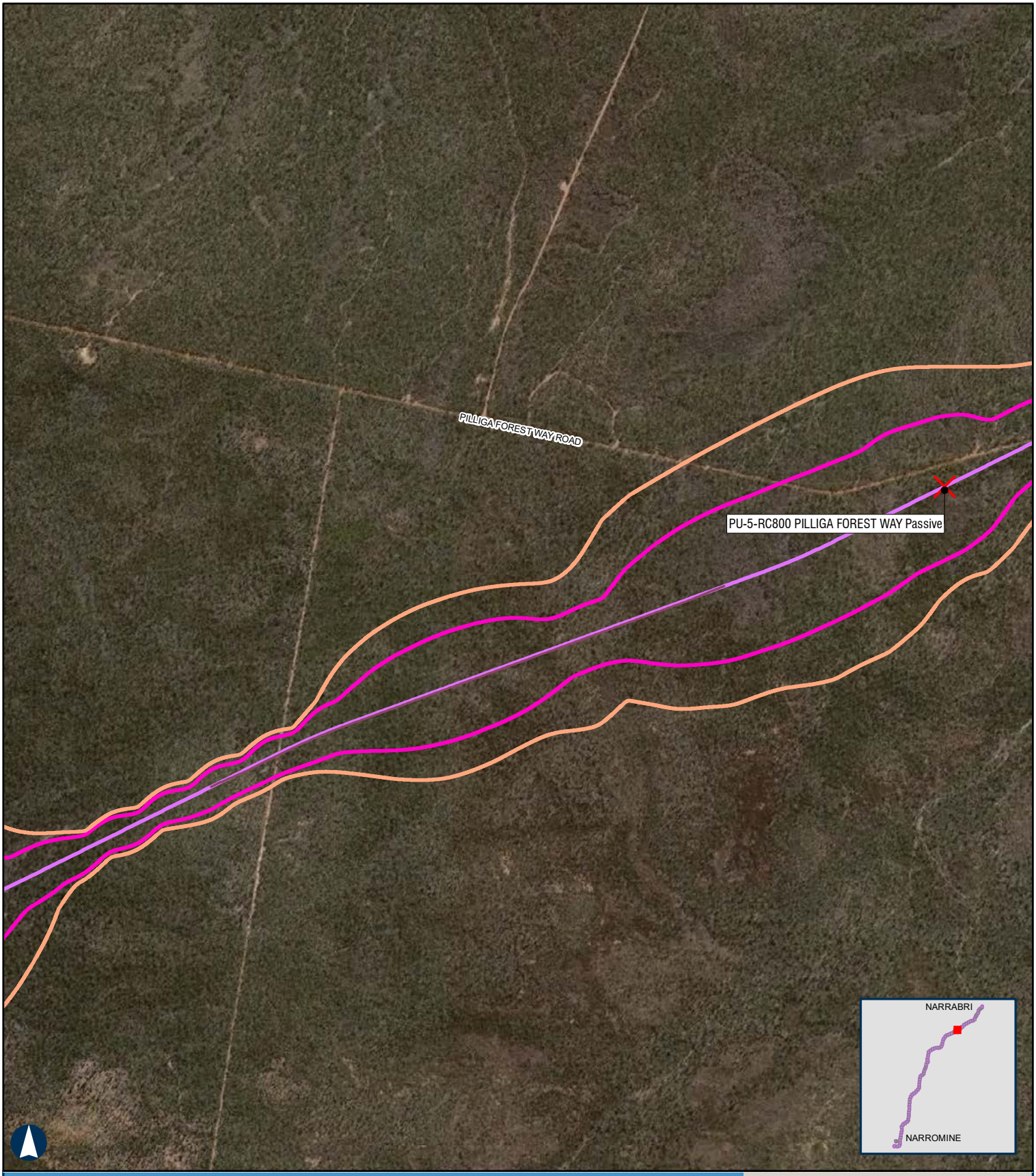


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 152 of 168

500 m

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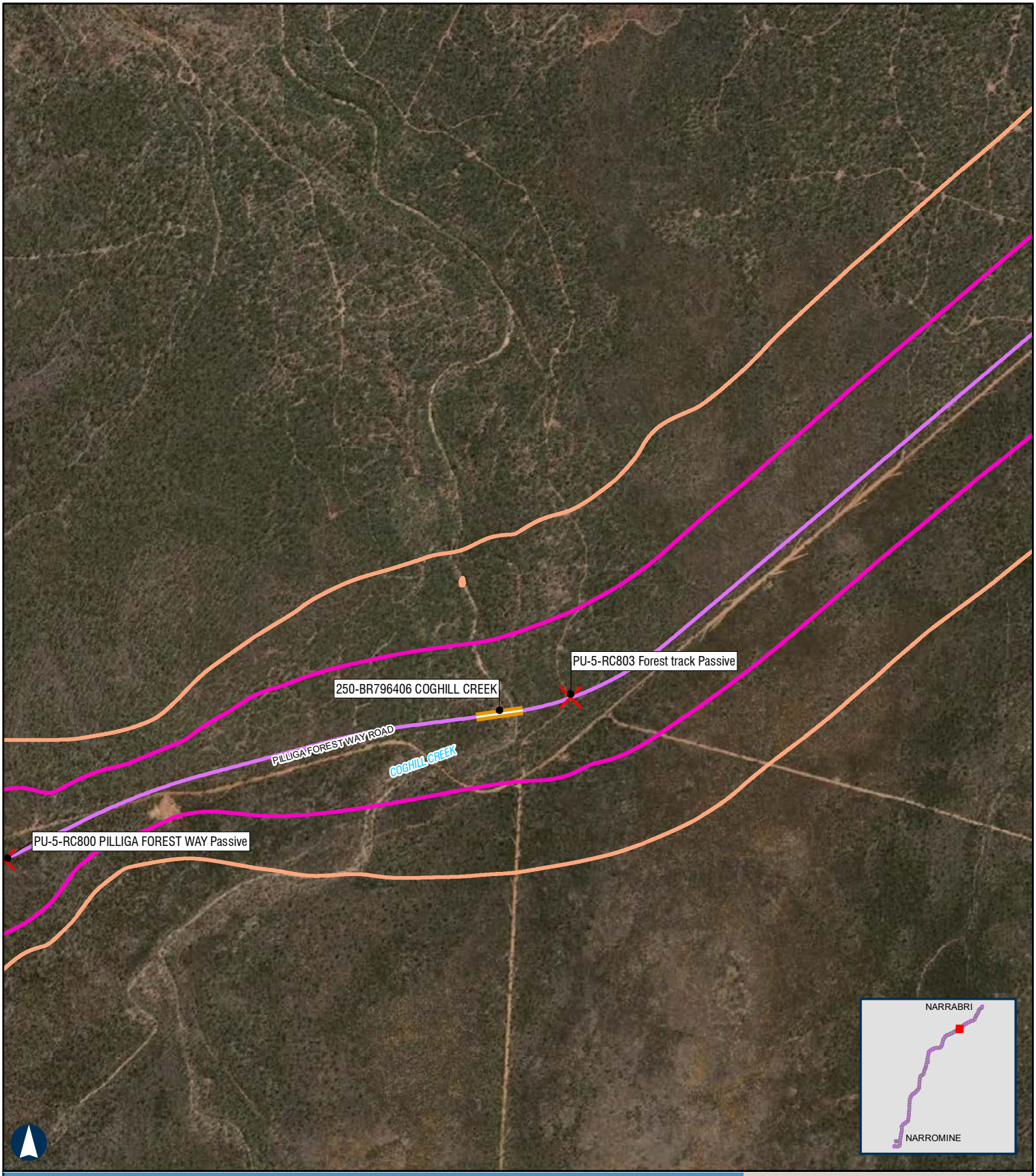


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Year 2040 Night-time Rail Noise Levels



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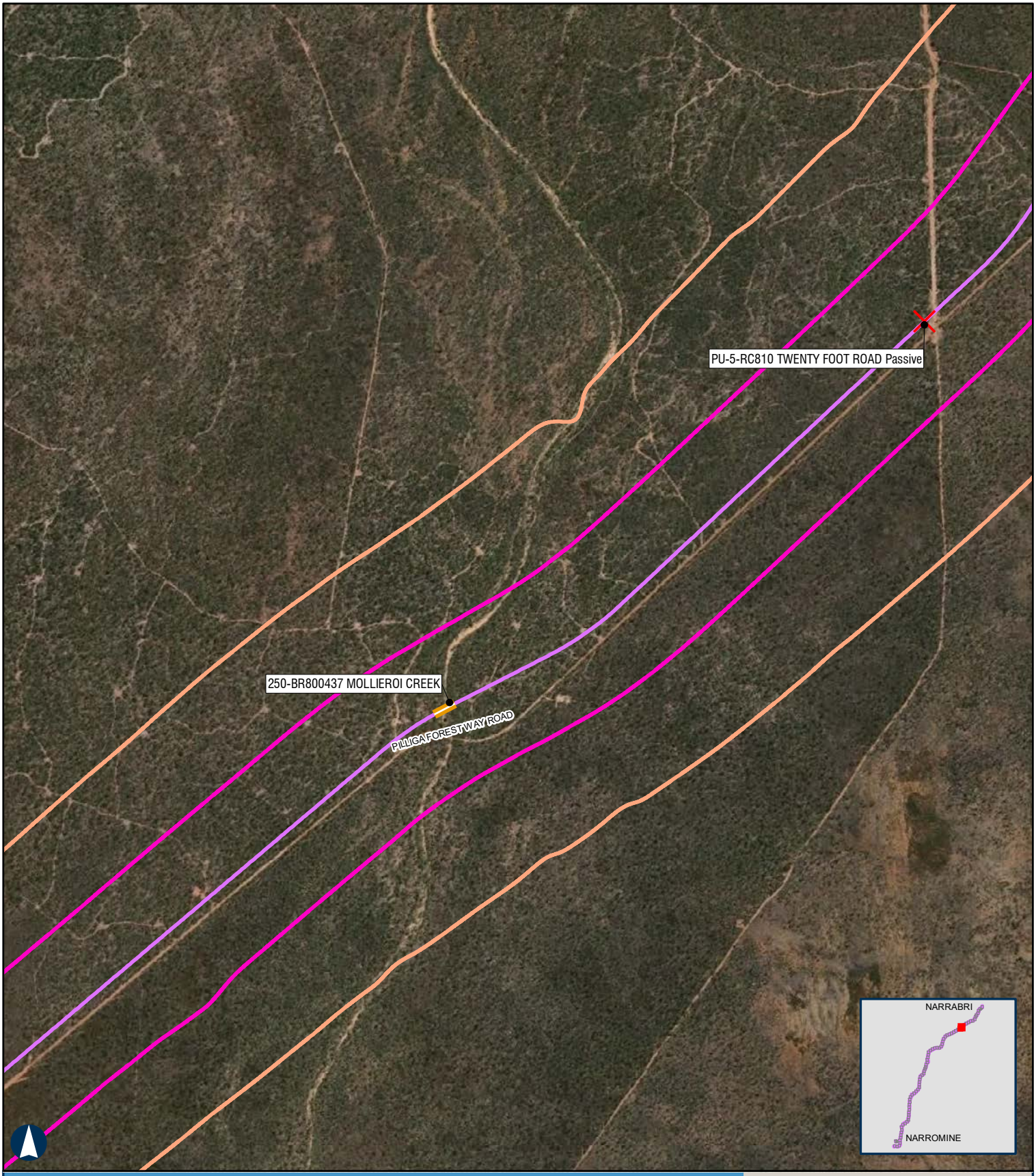


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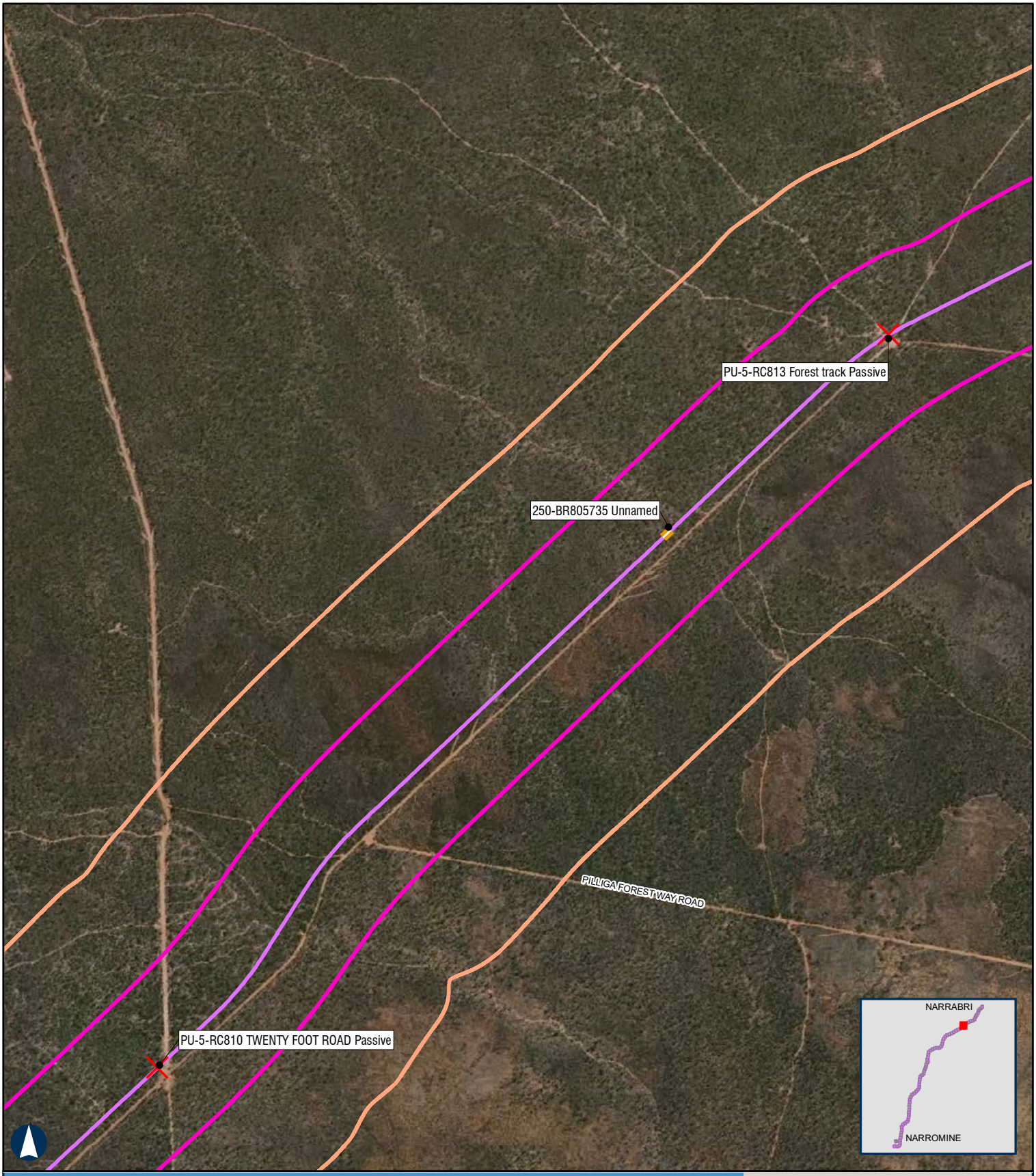


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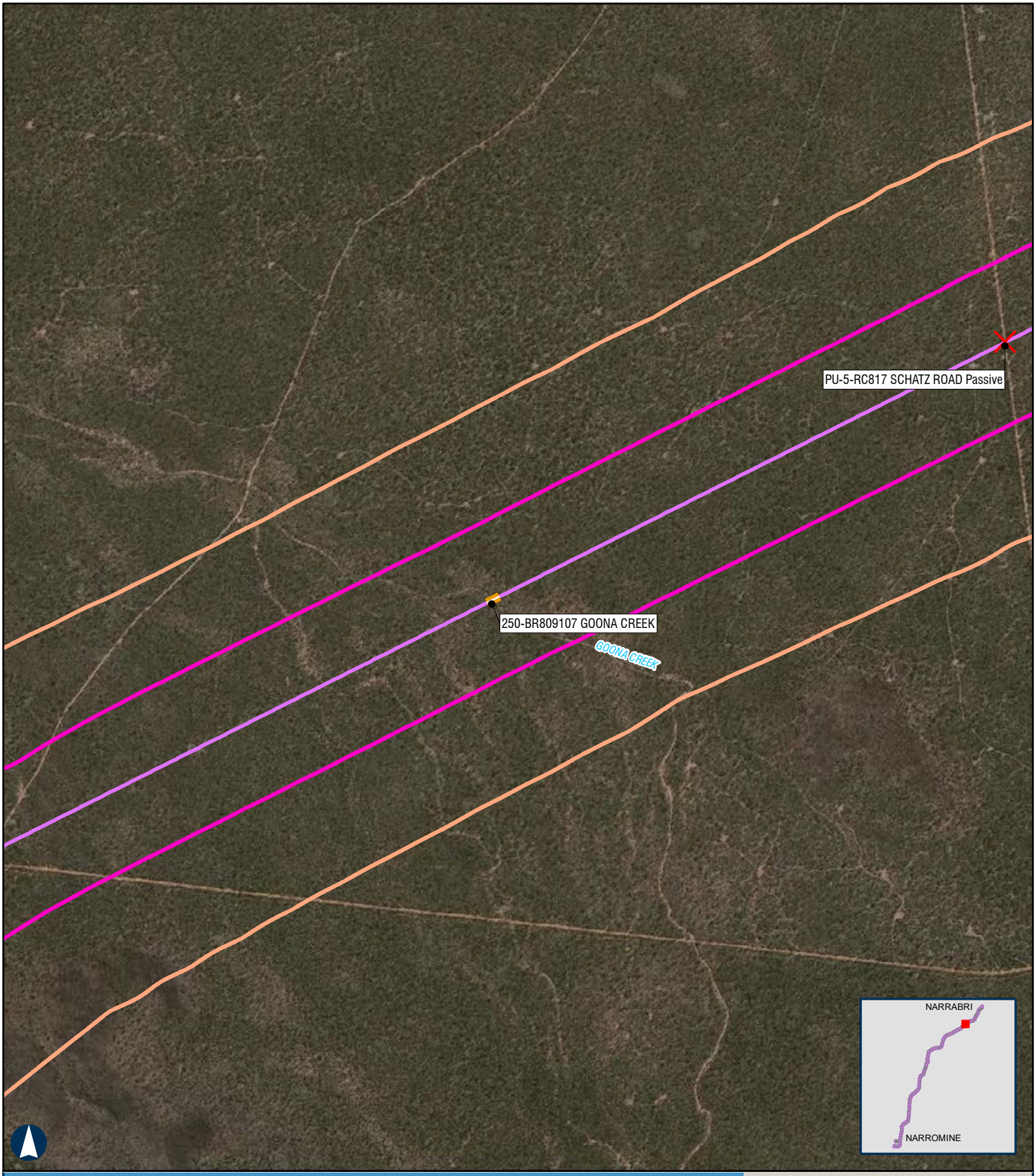


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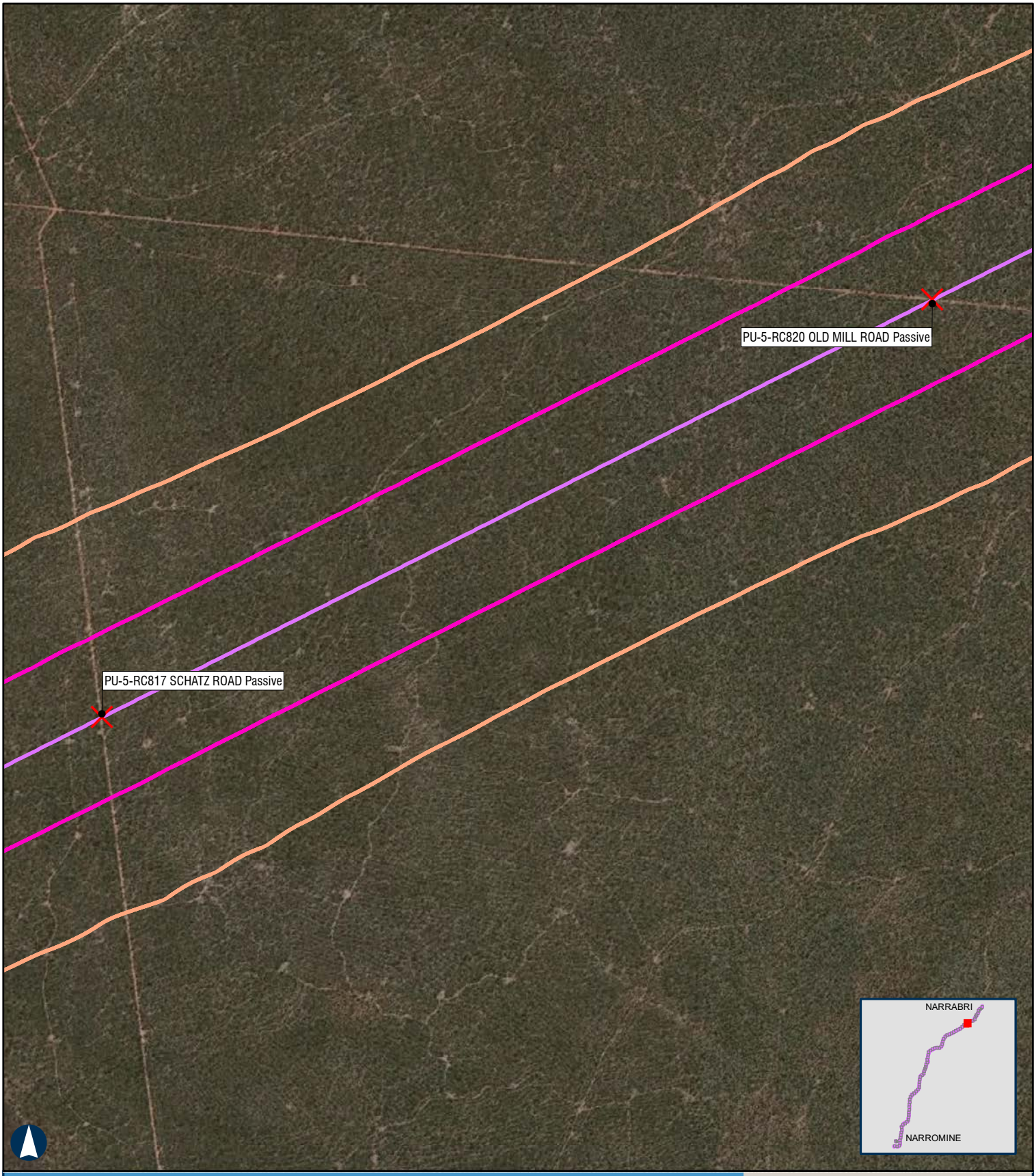


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 157 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



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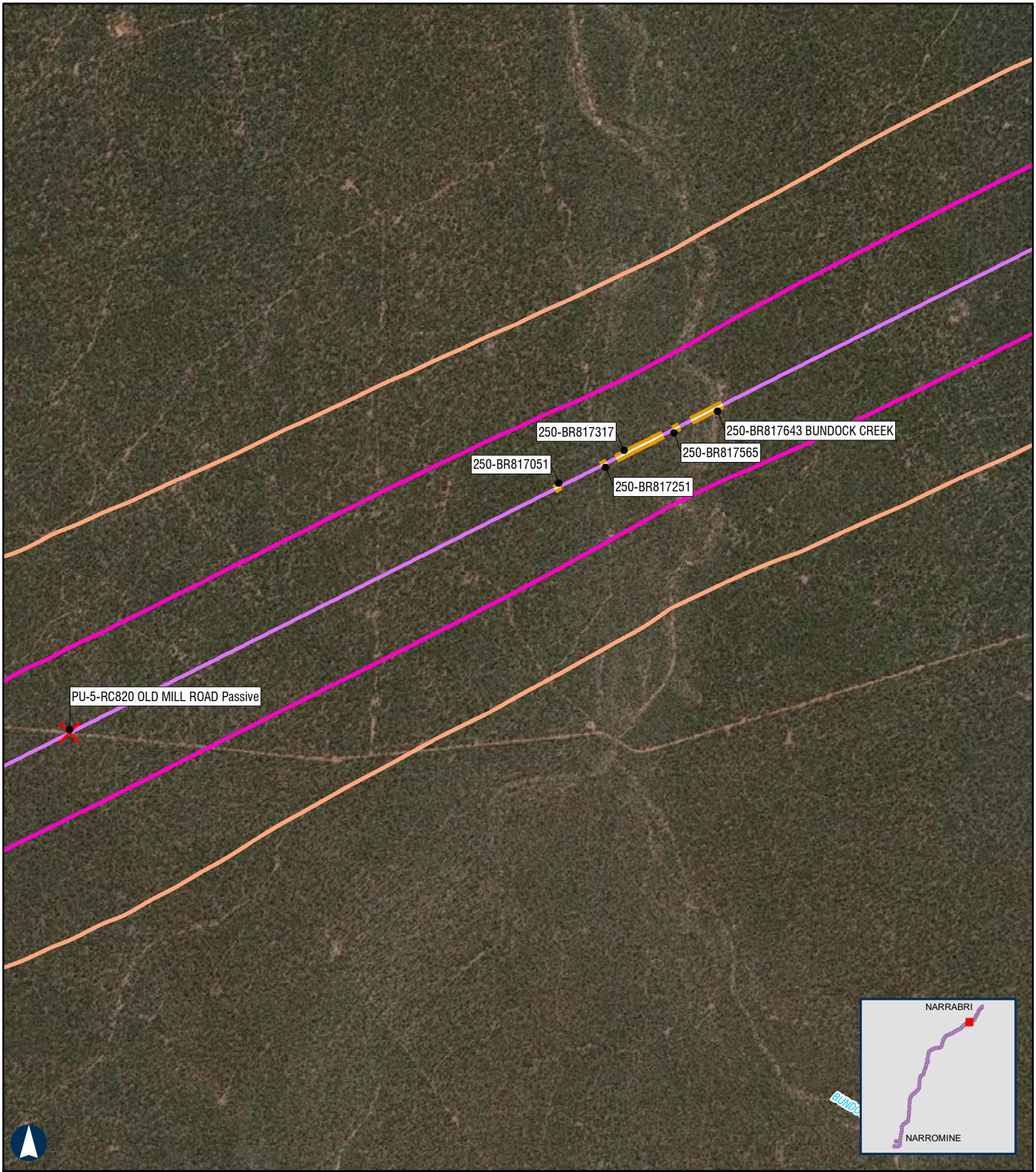
Service Layer Credits: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community




# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels



500 m

Coordinate System: GDA 1994 MGA Zone 55



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

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

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

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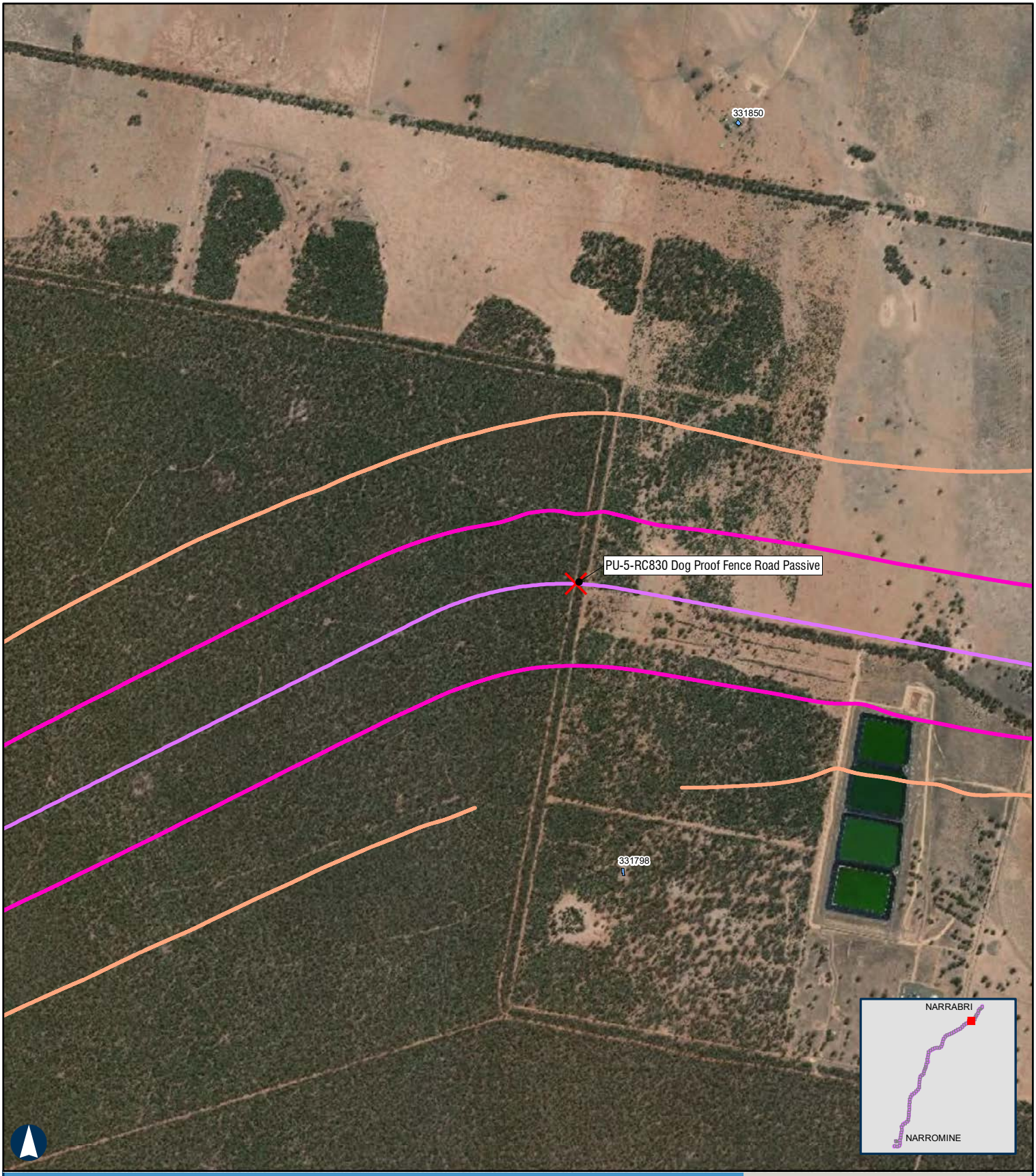


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Year 2040 Night-time Rail Noise Levels



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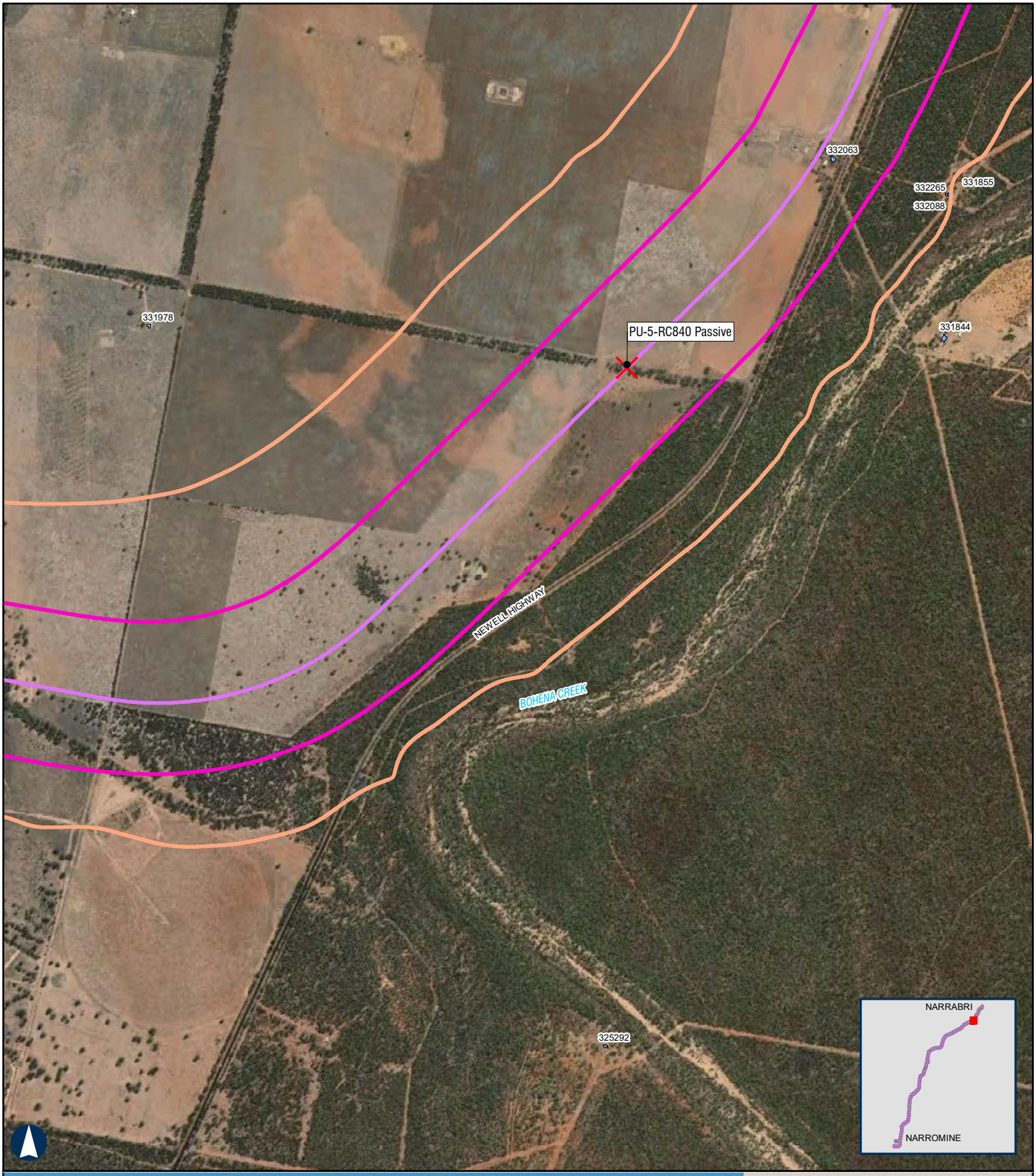


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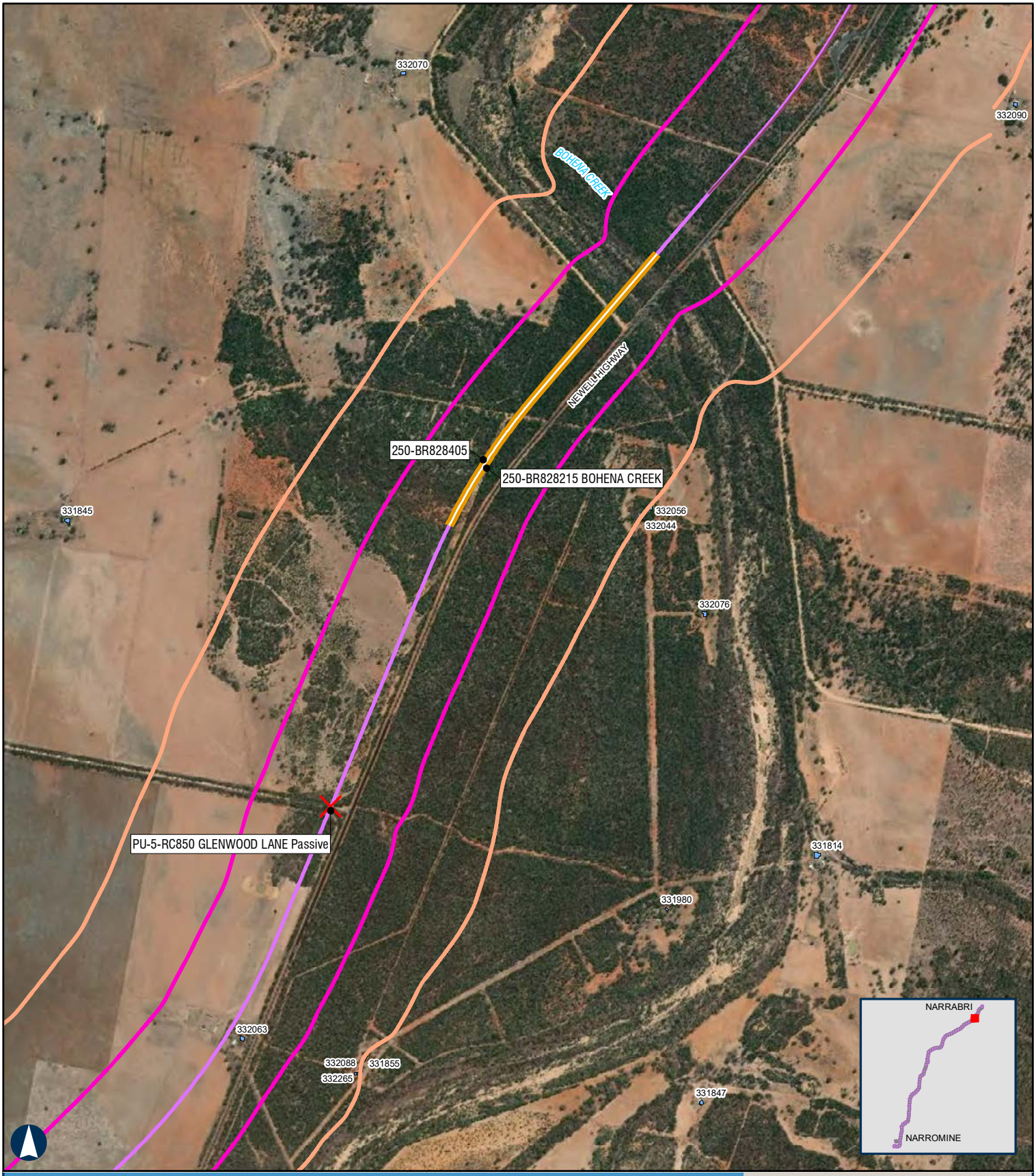


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 161 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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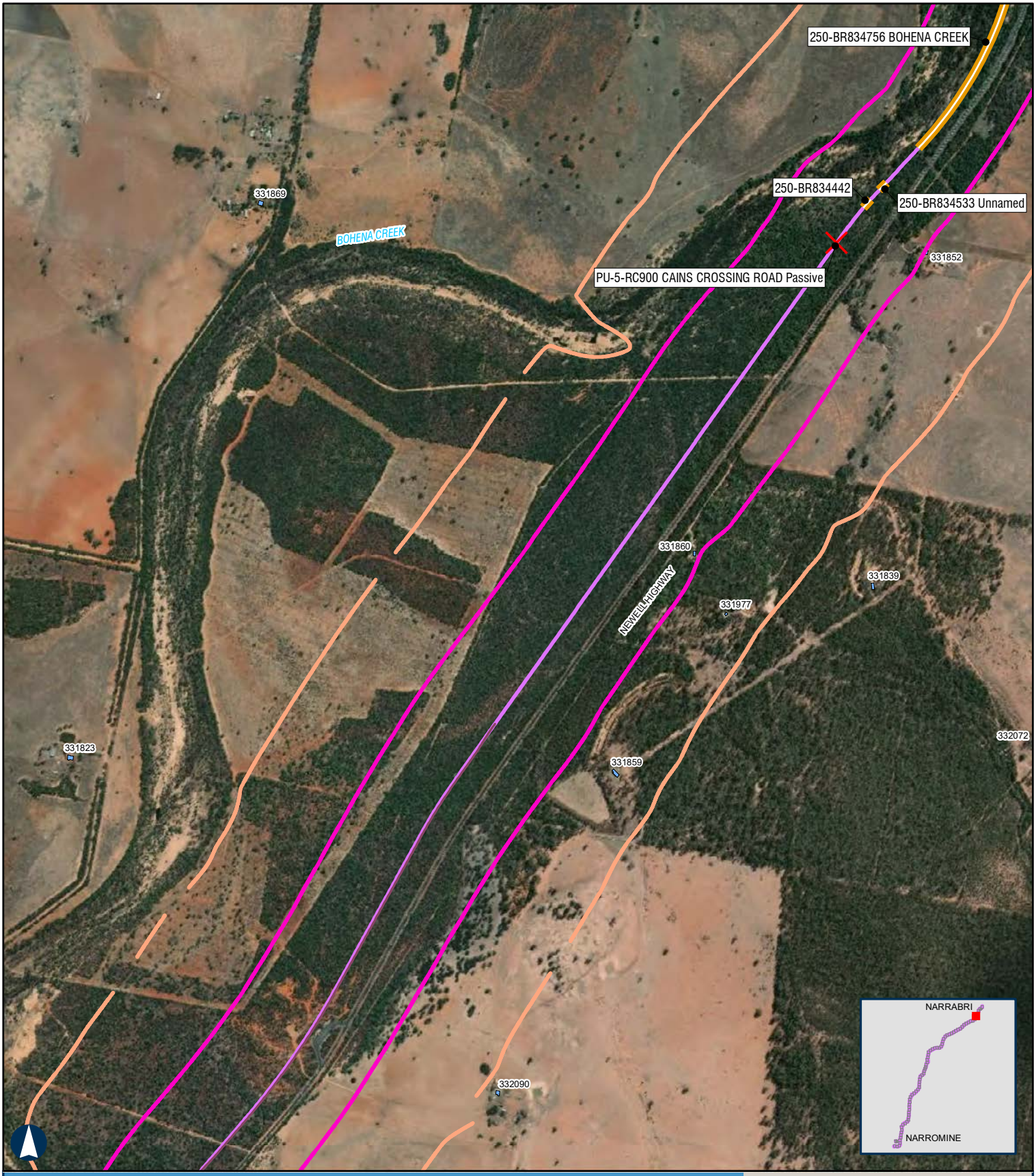


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Year 2040 Night-time Rail Noise Levels



500 m

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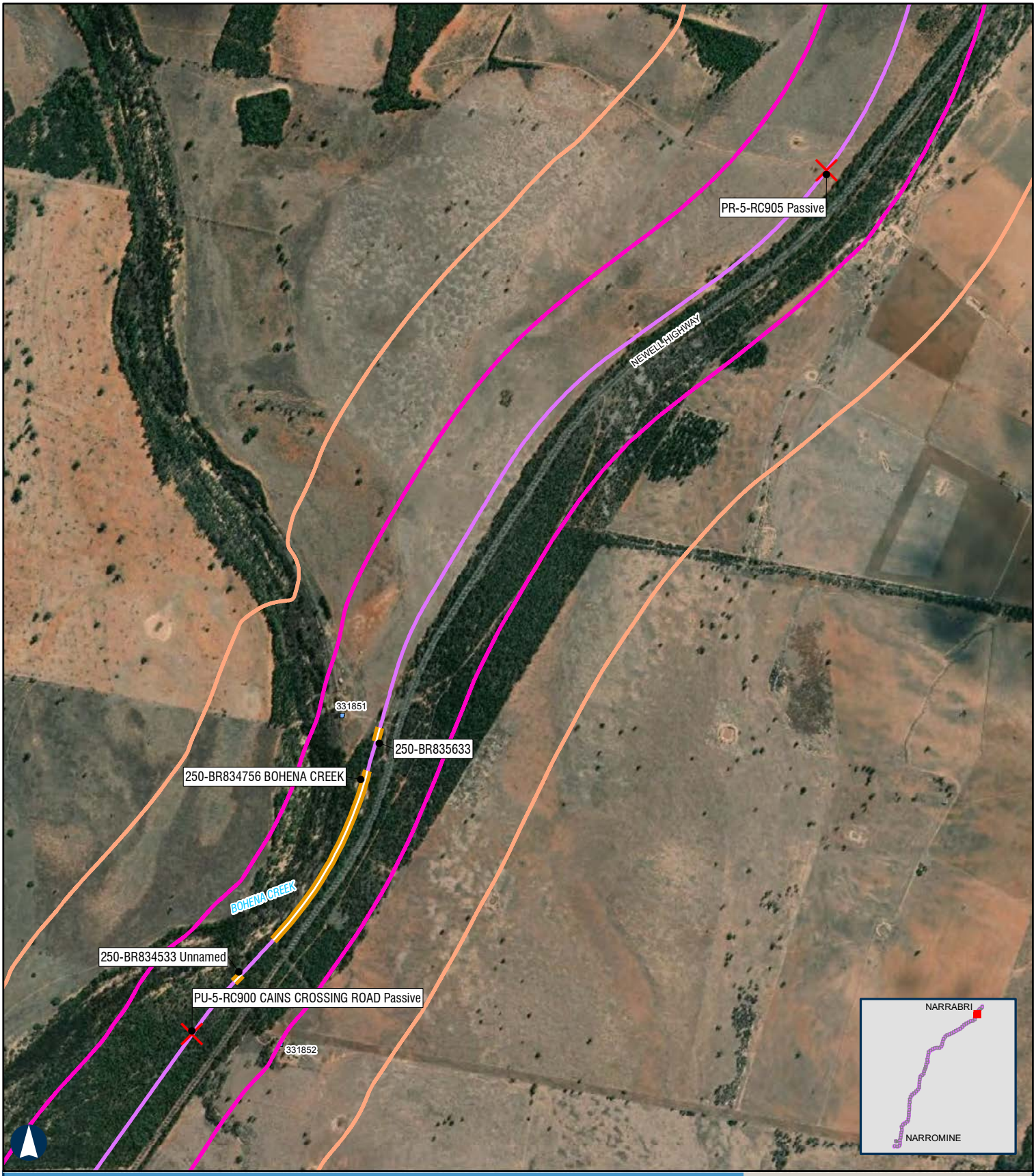


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 163 of 168

500 m

Coordinate System: GDA 1994 MGA Zone 55



Paper: A4 Scale: 1:20,000
Date: 01-Sep-2020
Author: JG

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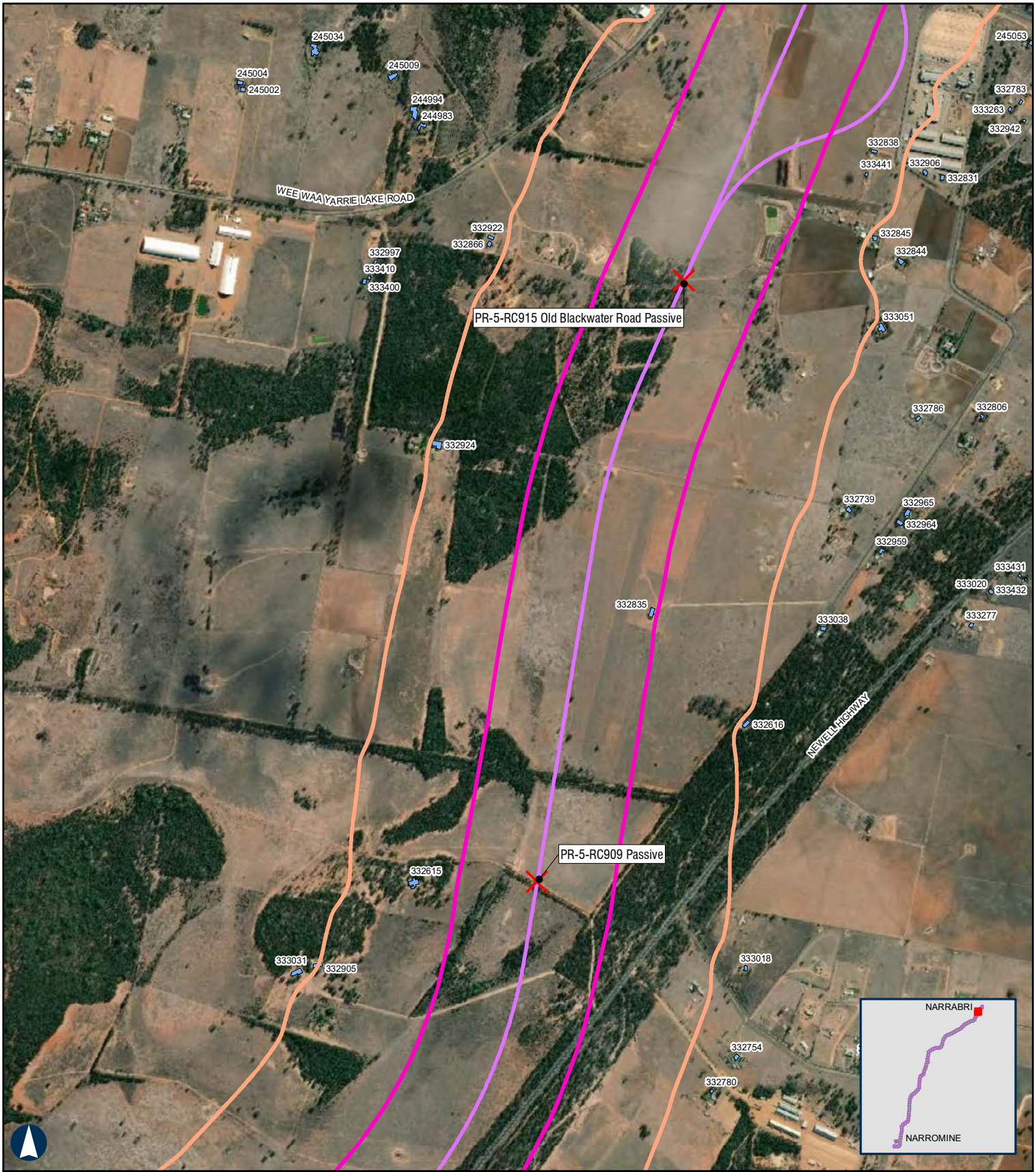


# NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 164 of 168

500 m

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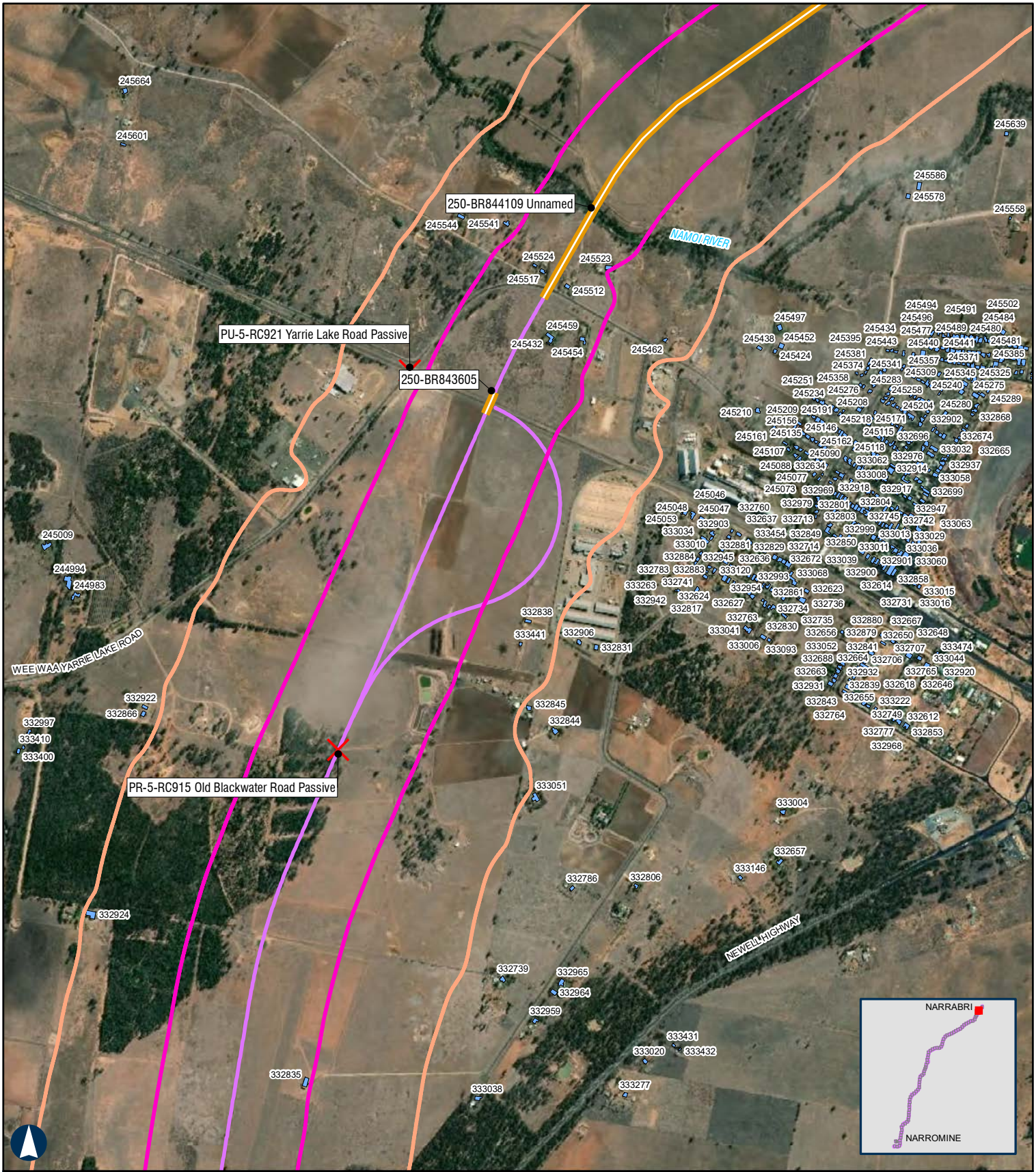


# NARROMINE TO NARRABRI

## Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 165 of 168

500 m

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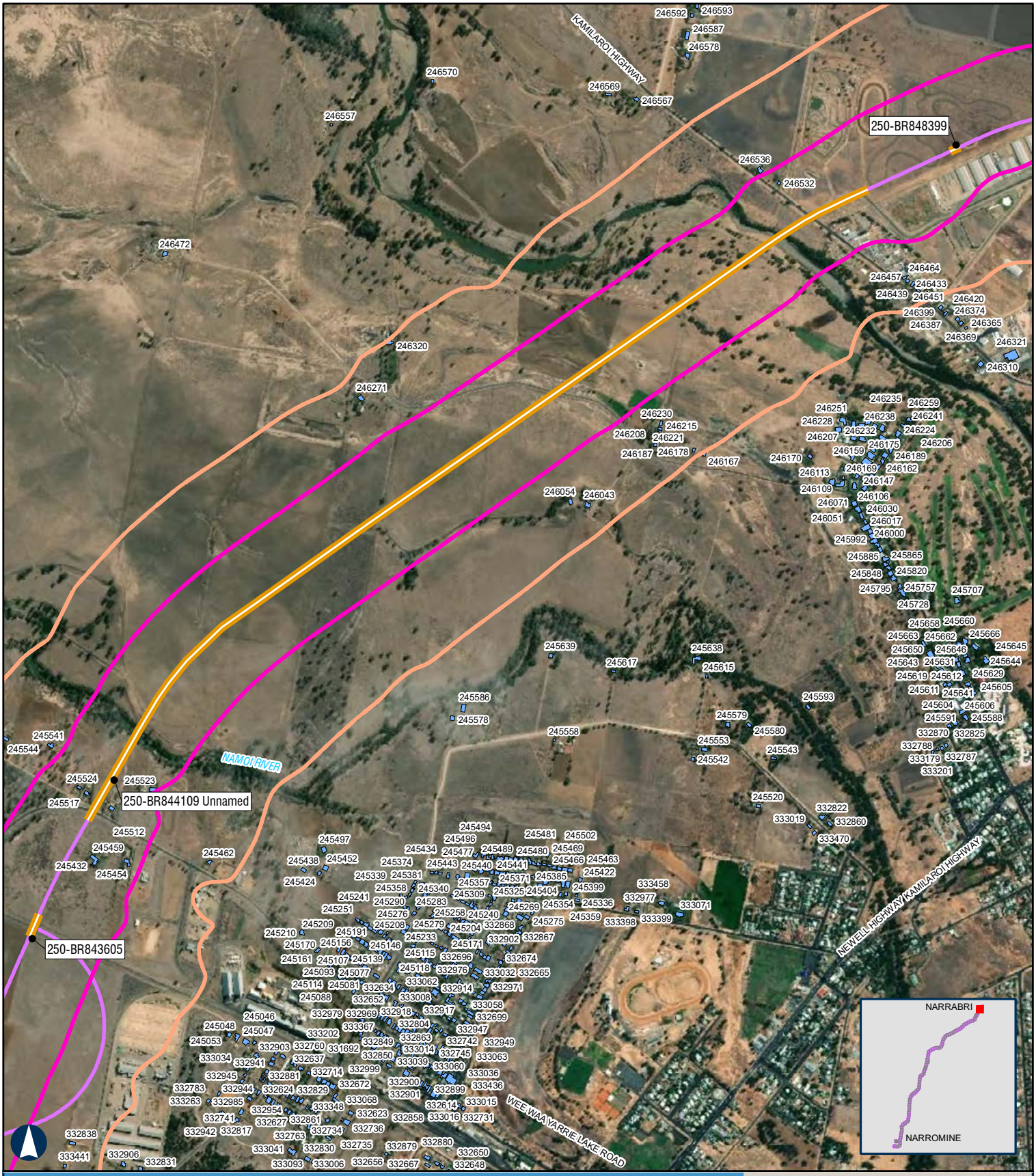


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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 166 of 168

500 m

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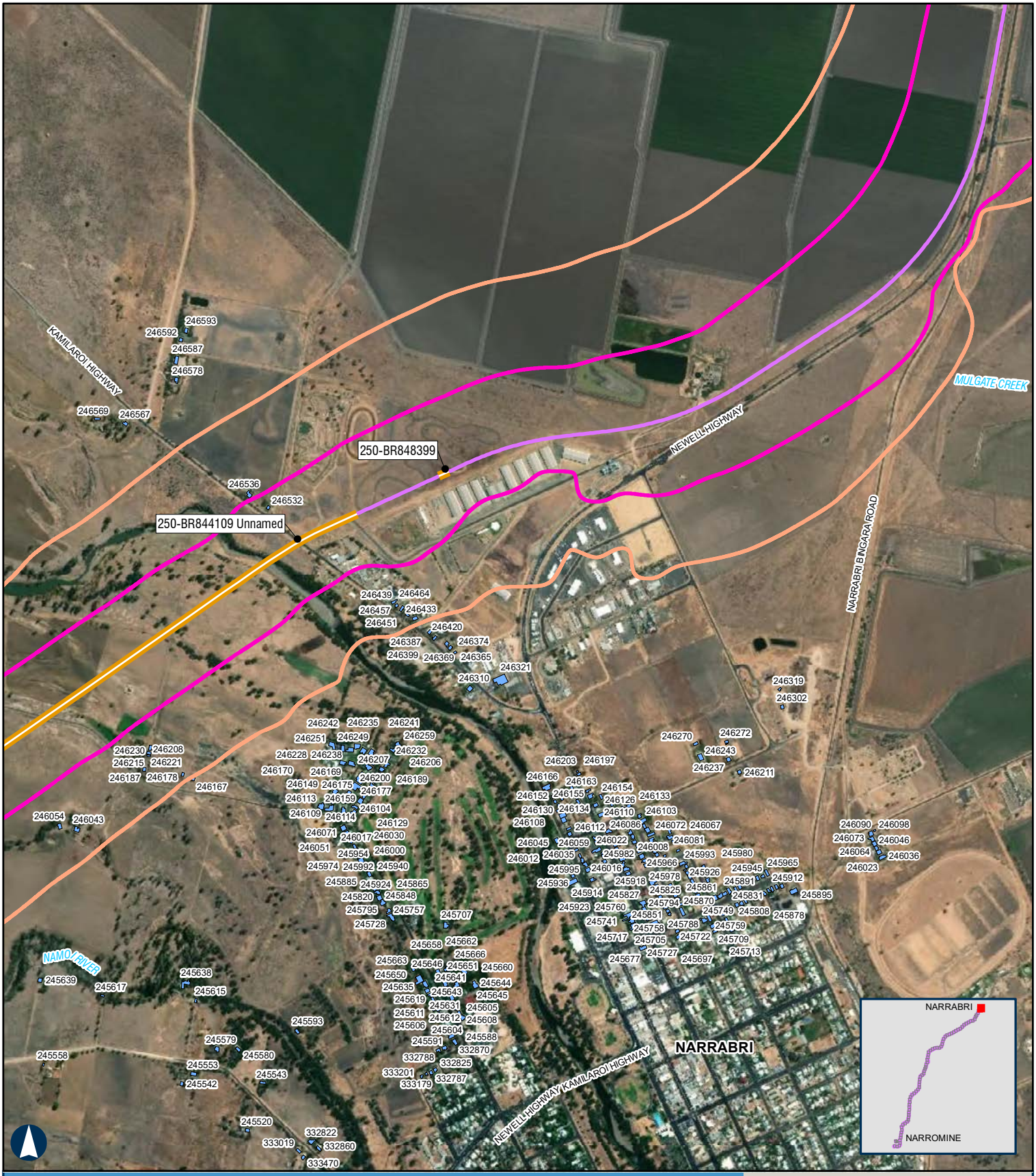


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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 167 of 168

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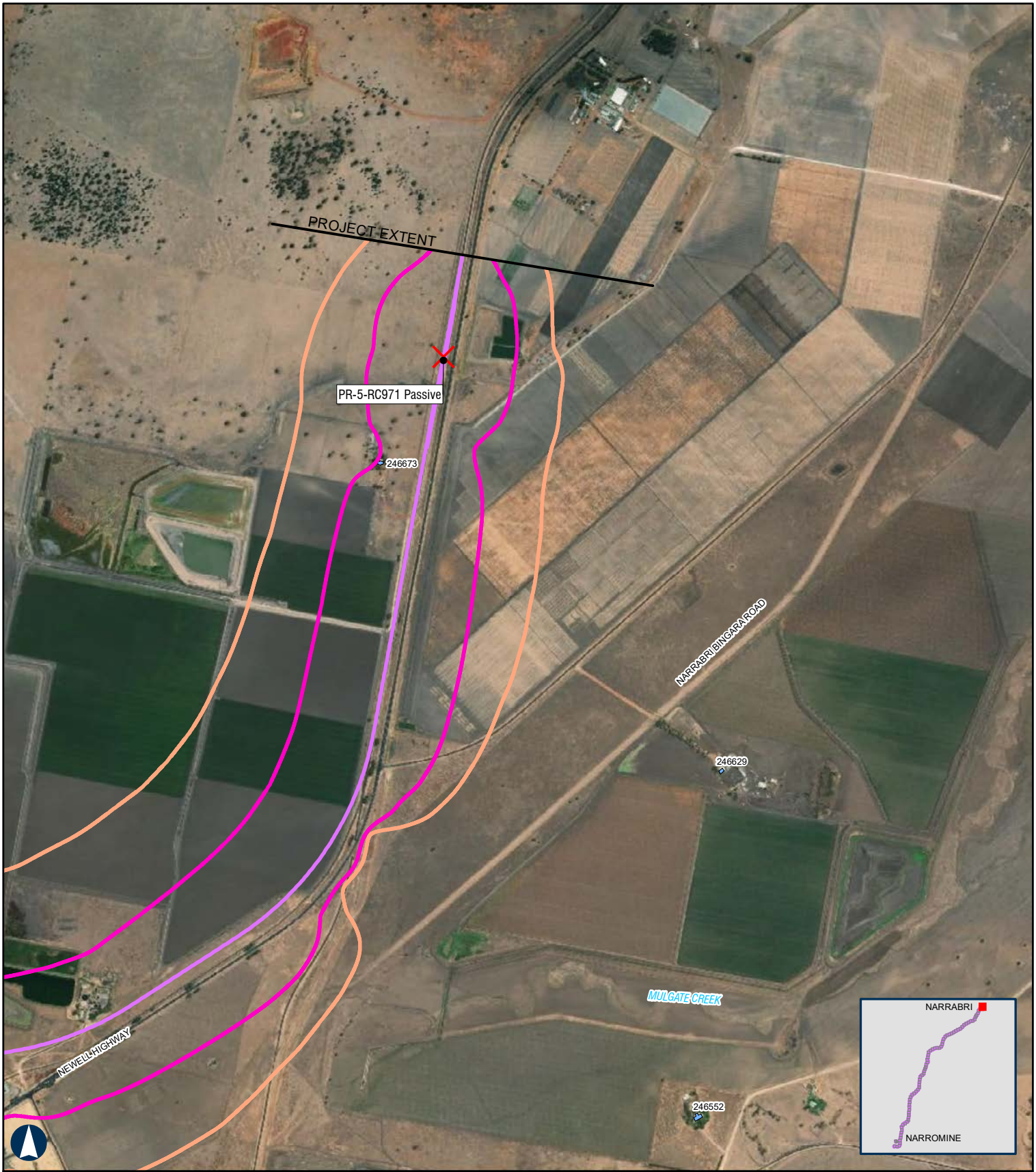


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## Year 2040 Night-time Rail Noise Levels

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