

# TECHNICAL REPORT 03

Updated flooding and hydrology assessment

## **Appendix N** Assessment of local and regional flooding at Narrabri

**(Part 22 of 25)**

NARROMINE TO NARRABRI PROJECT



# TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix B QDL compliance

## **Appendix B5** Narrabri local QDL compliance (hazard)

NARROMINE TO NARRABRI PROJECT





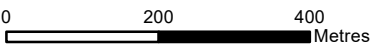


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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.1



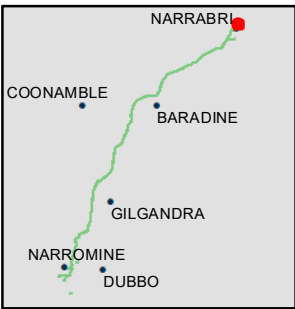
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022      Paper: A3  
Author: JacobsGHD      Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Primary road
- Arterial road
- Local road
- Watercourse
- The proposal

- Rail Corridor
- Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 20% AEP - Narrabri Local**

Appendix B - Figure 3.1.2

0 200 400 Metres

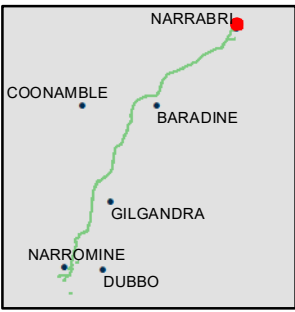
Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal

- Rail Corridor
- Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.3

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Bridge

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Rail Corridor

Percentage Change in dv

0% - 10%

10% - 20%

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS\_2500\_N2N\_v2\Maps\Deliverables\_SPIR\EIS\Flooding\_Hydrology\Appendices\2500\_EISFWPAPP117\_QDL\_Local\_Hazard\_20pc\_revA.mxd





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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 20% AEP - Narrabri Local**

**Appendix B - Figure 3.1.4**

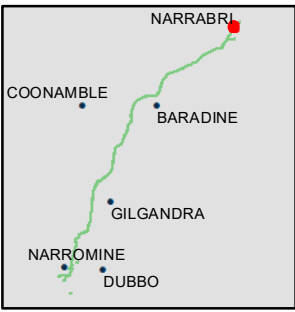
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
- Rail Corridor
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.5

0 200 400 Metres

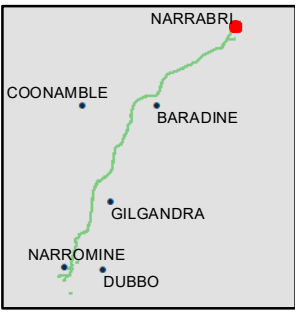
Coordinate System: GDA 1994 MGA Zone 55

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

- Bridge
- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal

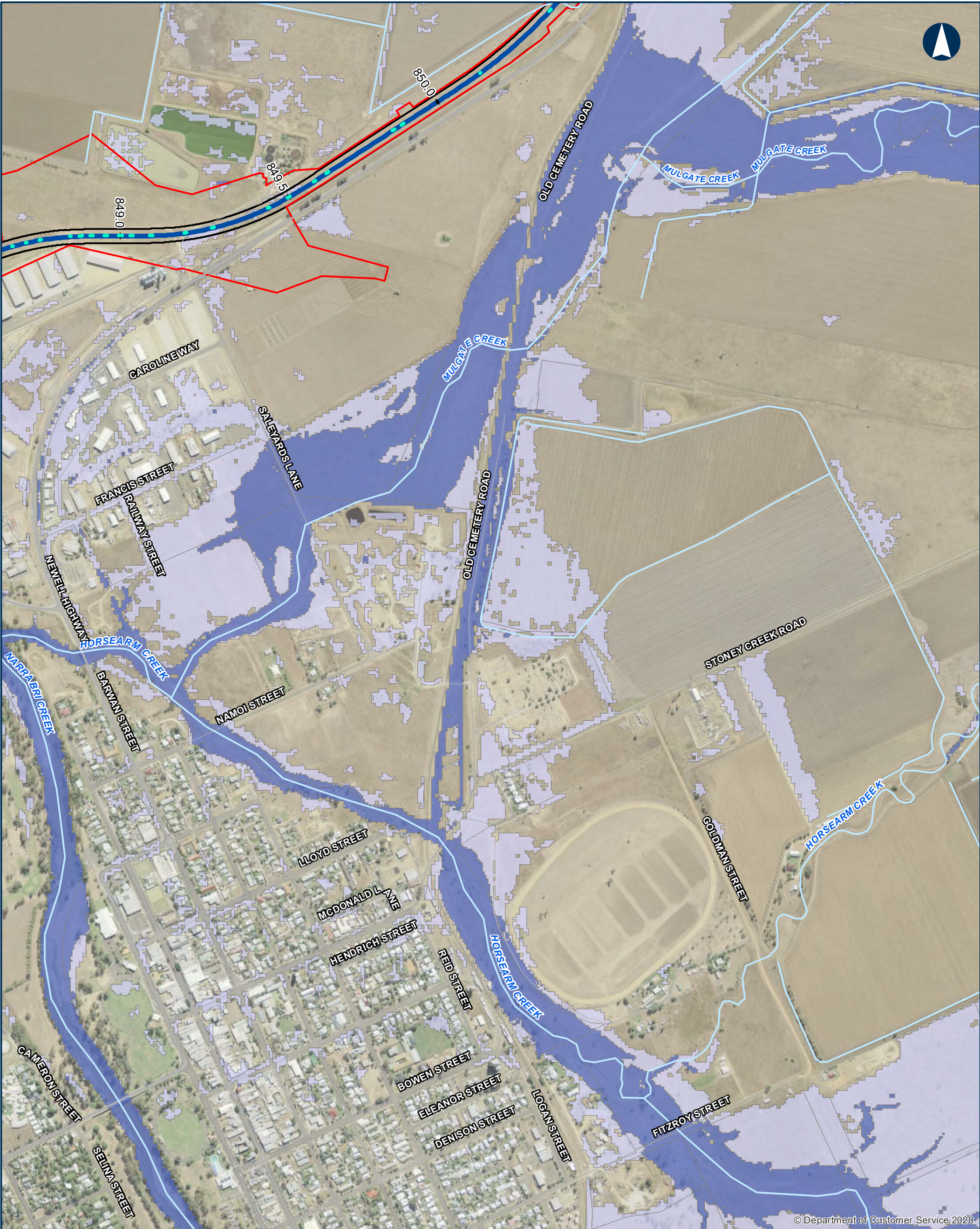
- Rail Corridor
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 20% AEP - Narrabri Local**

**Appendix B - Figure 3.1.6**

0 200 400 Metres

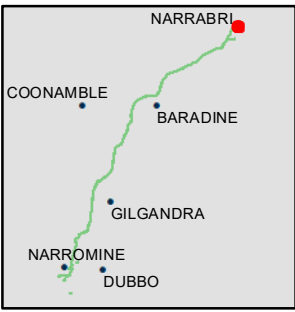
Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal

- Rail Corridor
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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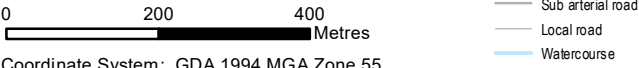




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**NARROMINE TO NARRABRI** QDL departures - Hazard - 20% AEP - Narrabri Local

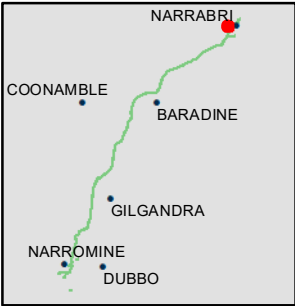
Appendix B - Figure 3.1.7



Coordinate System: GDA 1994 MGA Zone 55

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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.8

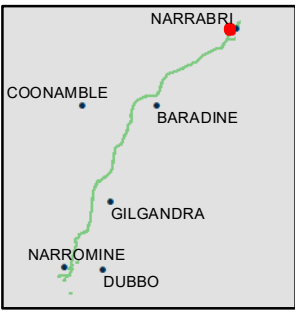
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Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
- Rail Corridor
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%

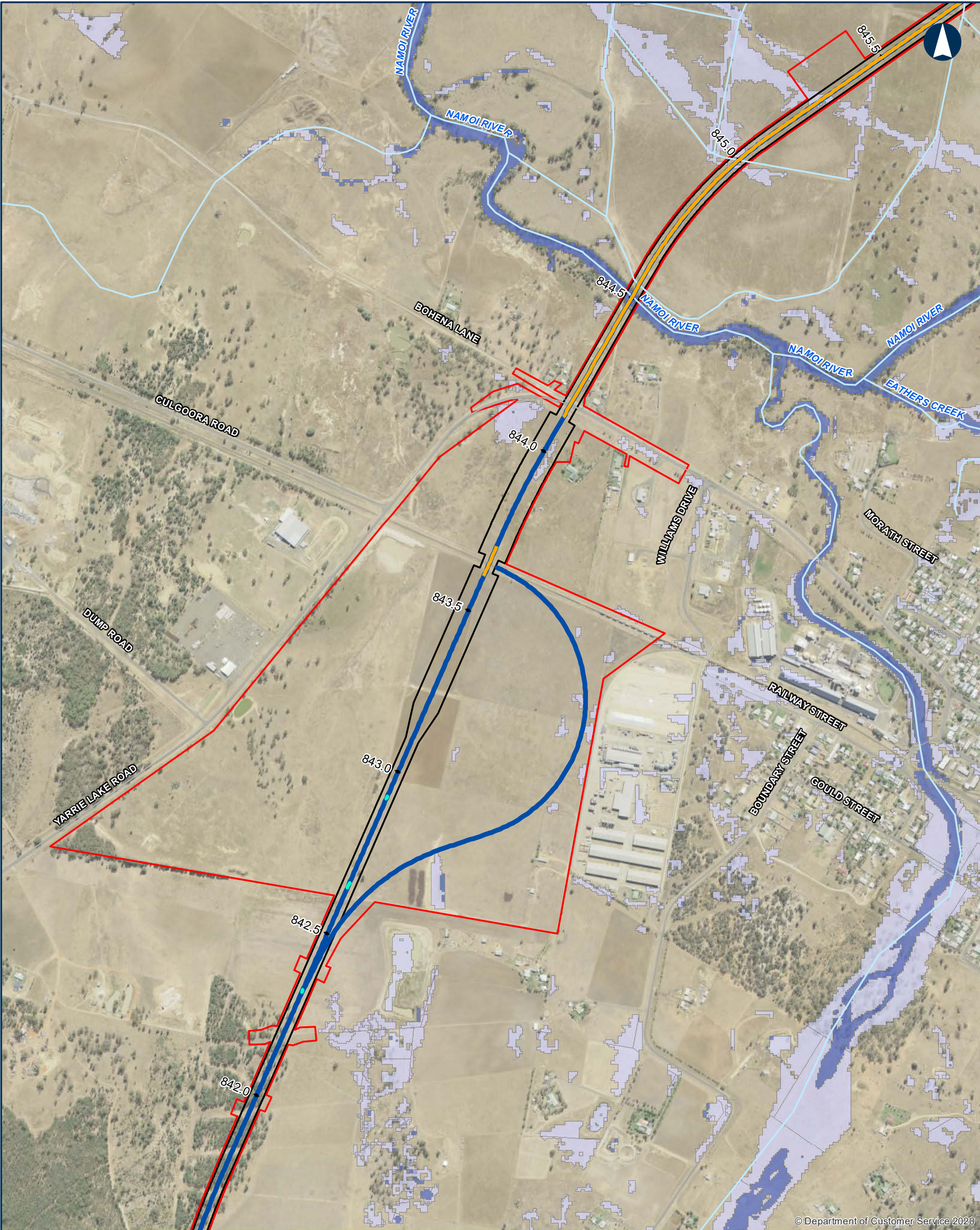


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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.9

0 200 400 Metres

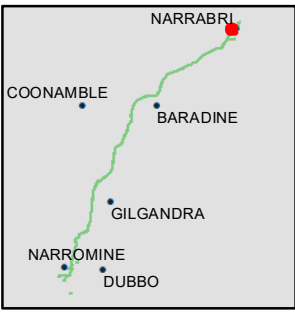
Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
- Culvert
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal

- Rail Corridor
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.10

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

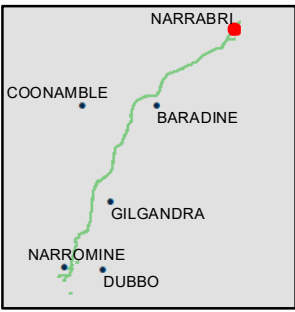
Author: JacobsGHD

Scale: 1:10,000

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

- Bridge
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal

- Rail Corridor
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.11

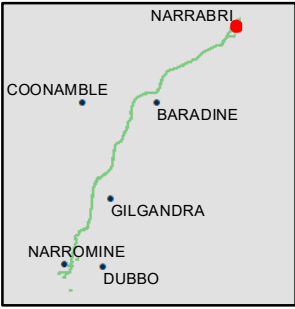
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road  
Sub arterial road  
Local road  
Watercourse
- Percentage Change in dv
- 0% - 10%  
10% - 20%

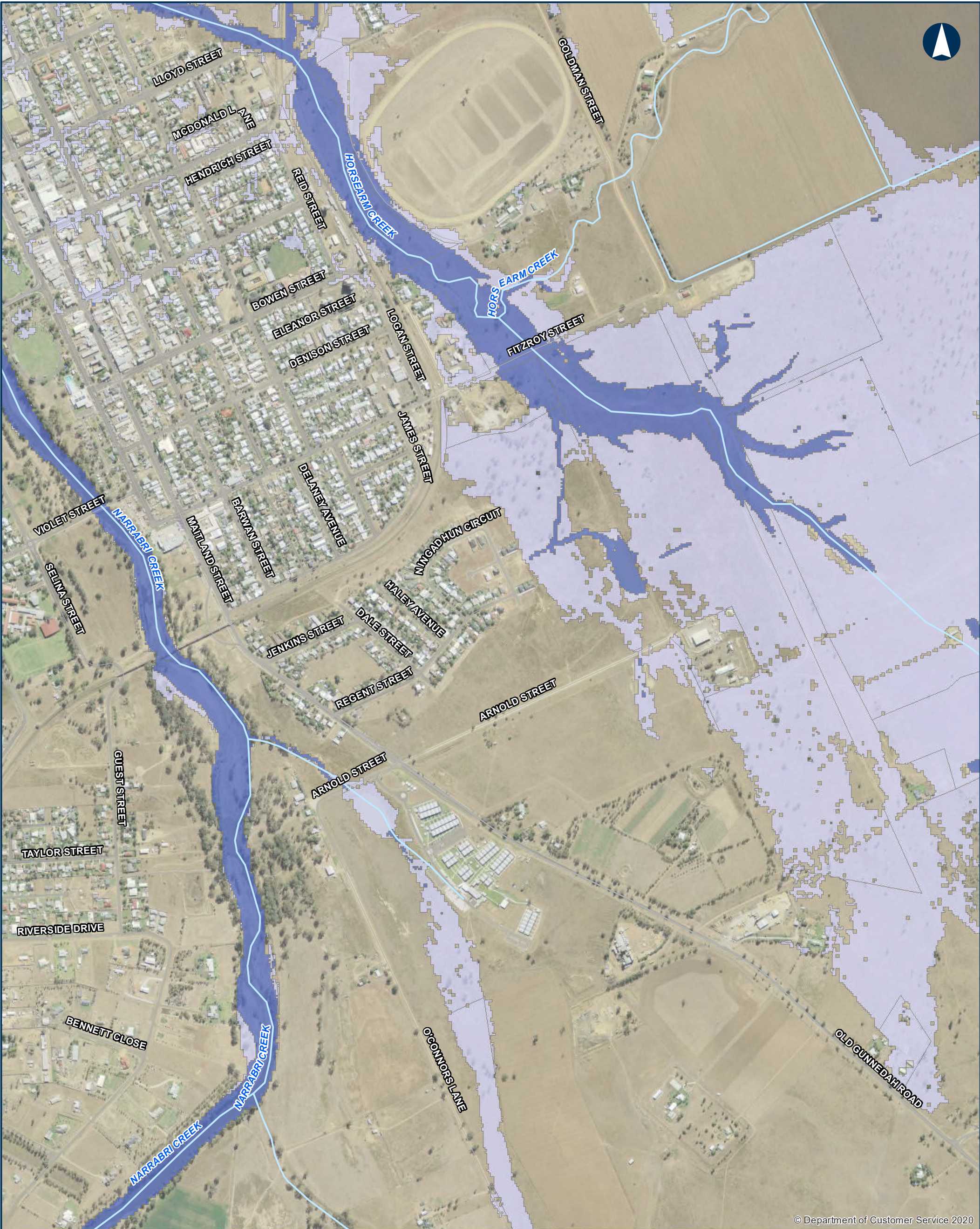


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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 20% AEP - Narrabri Local**

Appendix B - Figure 3.1.12

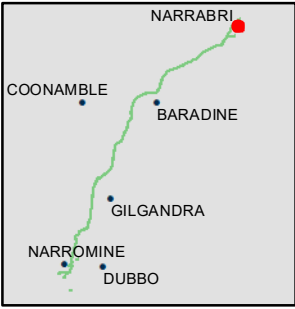
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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

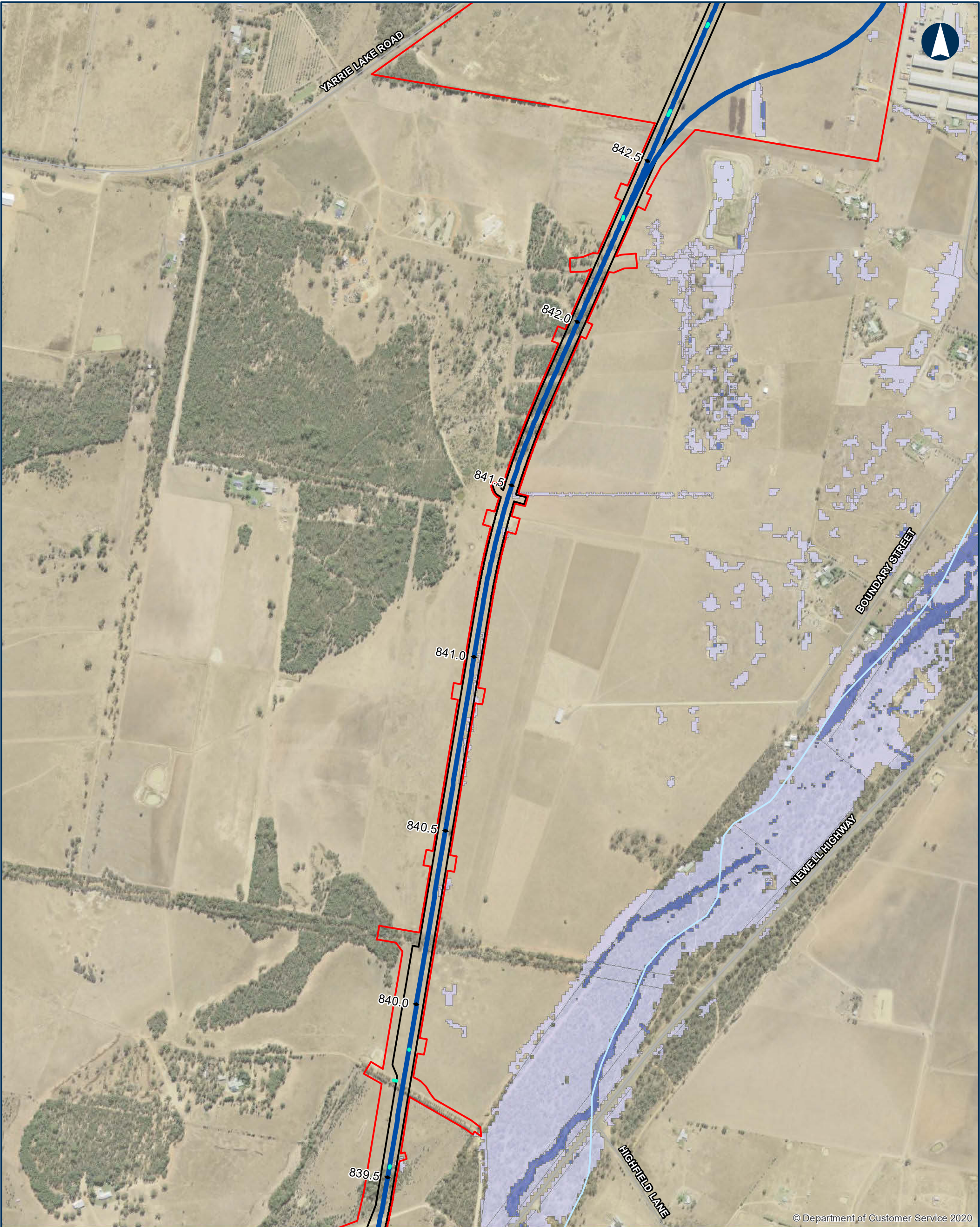
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 20% AEP - Narrabri Local**

**Appendix B - Figure 3.1.13**

0 200 400 Metres

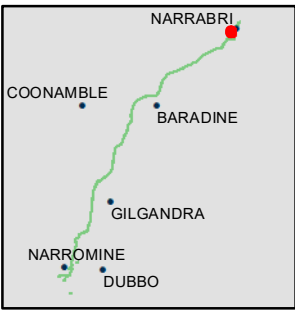
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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal

- Rail Corridor
- Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.14

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Culvert

Alignment

Primary road

Sub arterial road

Local road

Watercourse

The proposal

Rail Corridor

Percentage Change in dv

0% - 10%

10% - 20%

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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.15

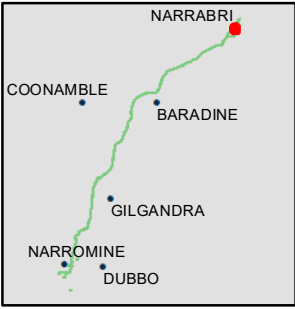
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 20% AEP - Narrabri Local

Appendix B - Figure 3.1.16

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Primary road

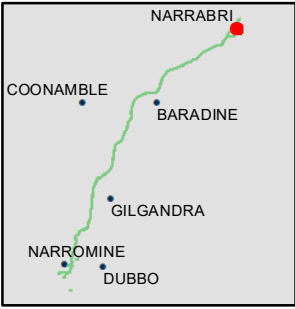
Sub arterial road

Local road

Watercourse
- Percentage Change in dv

0% - 10%

10% - 20%

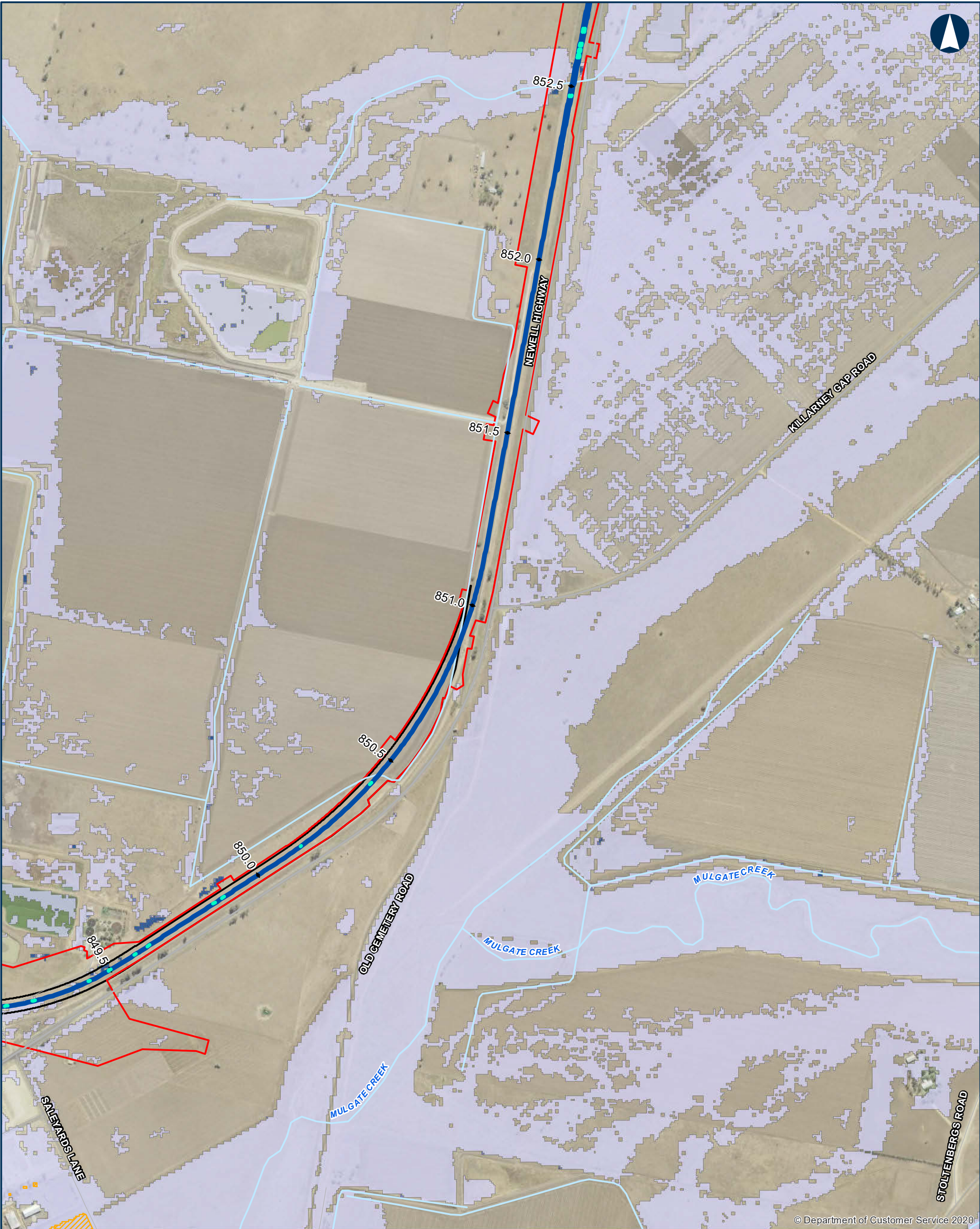


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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.1

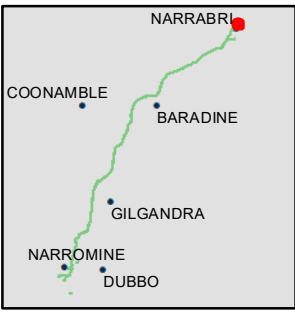
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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

- Culvert
  - Alignment
  - Primary road
  - Arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%
  - 20%+



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 5% AEP - Narrabri Local**

Appendix B - Figure 3.2.2

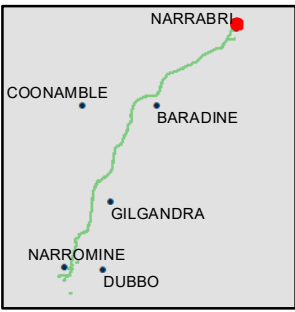
0 200 400 Metres

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- Bridge
  - Culvert
  - Alignment
  - Primary road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%
  - 20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.3

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

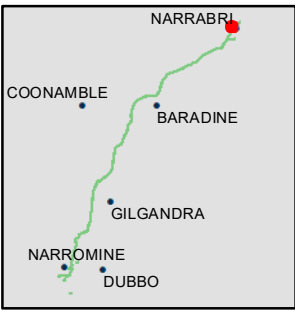
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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Bridge  
Alignment  
Sub arterial road  
Local road  
Watercourse  
The proposal  
Rail Corridor

Area of departure  
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv  
0% - 10%  
10% - 20%  
20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.4

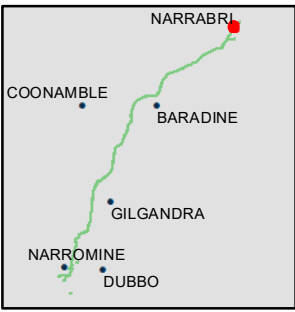
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%
  - 20%+



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 5% AEP - Narrabri Local**

**Appendix B - Figure 3.2.5**

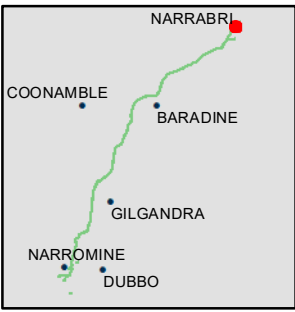
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

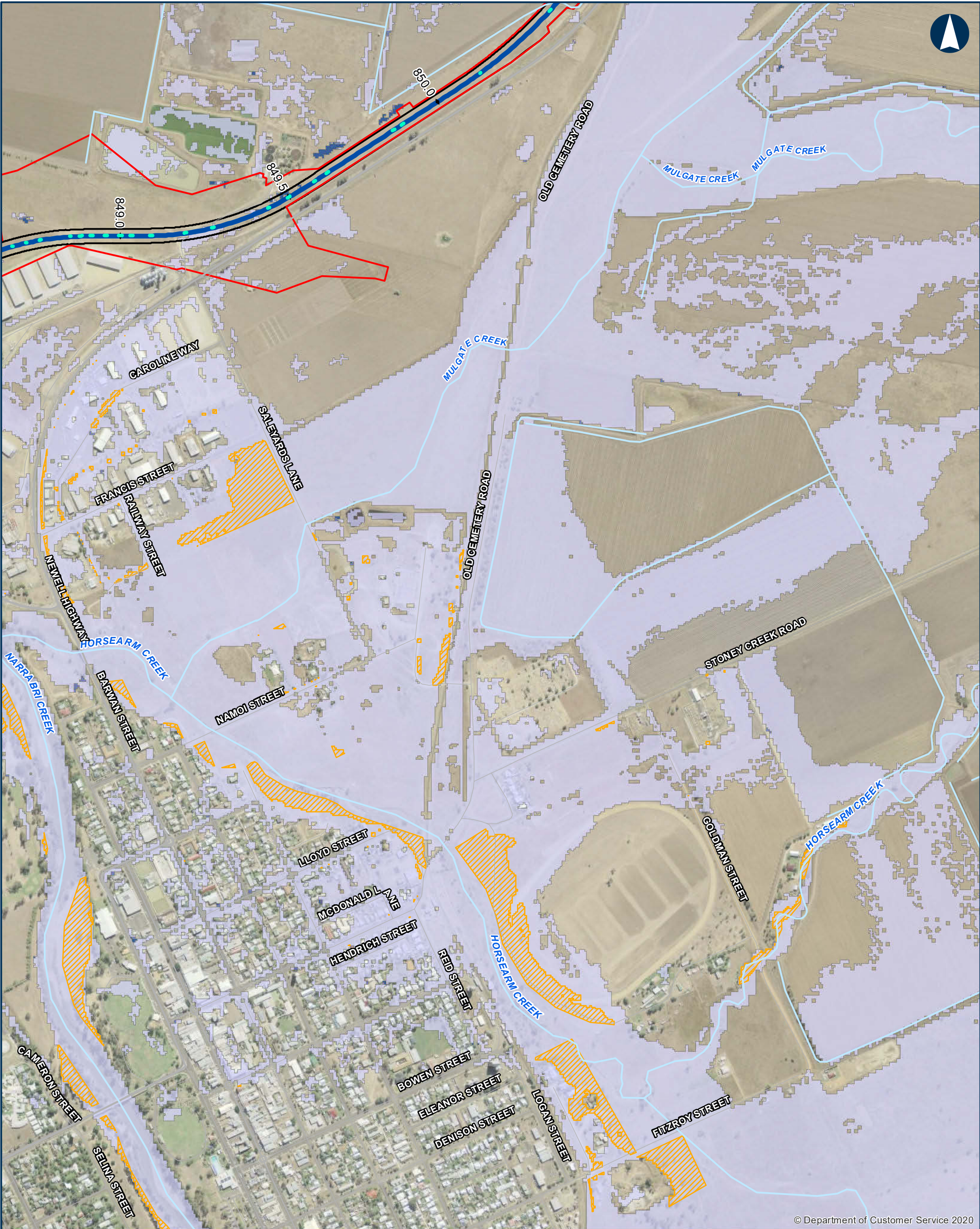
- Bridge
  - Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%
  - 20%+



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 5% AEP - Narrabri Local**

**Appendix B - Figure 3.2.6**

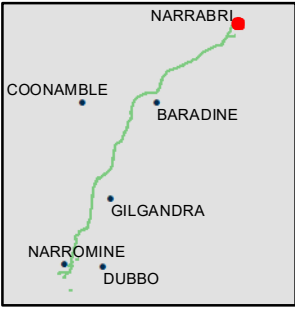
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%
  - 20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.7

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

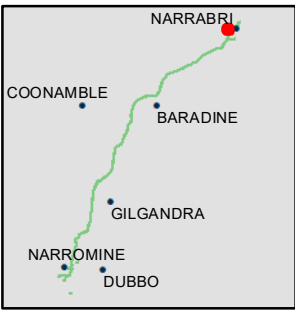
Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.8

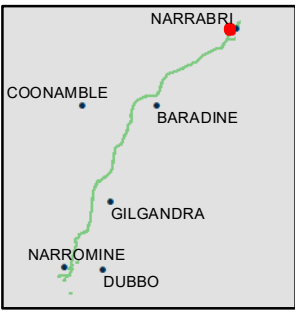
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

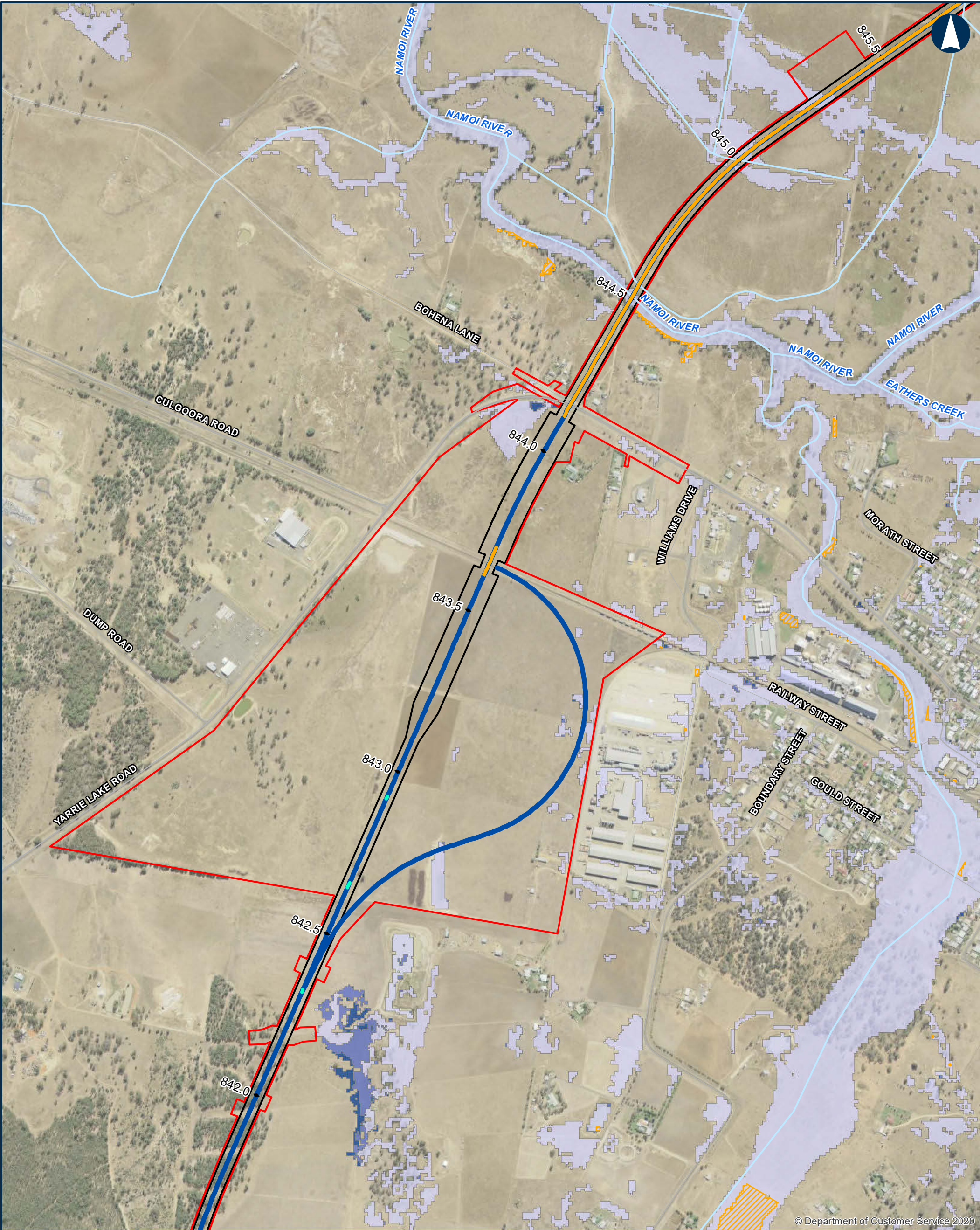
- Culvert
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.9

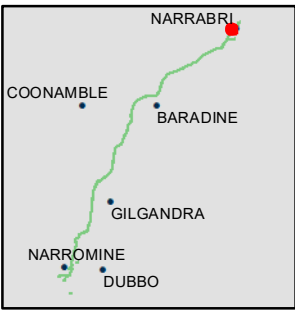
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Culvert
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%
  - 20%+



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 5% AEP - Narrabri Local**

Appendix B - Figure 3.2.10

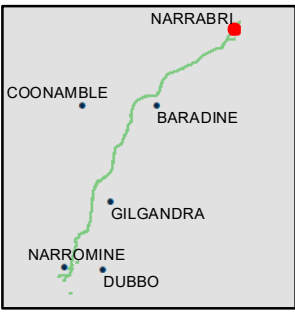
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%
  - 20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.11

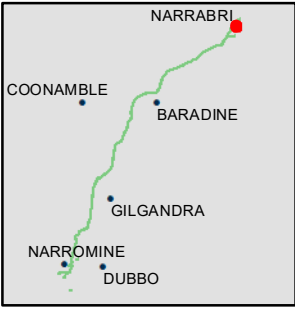
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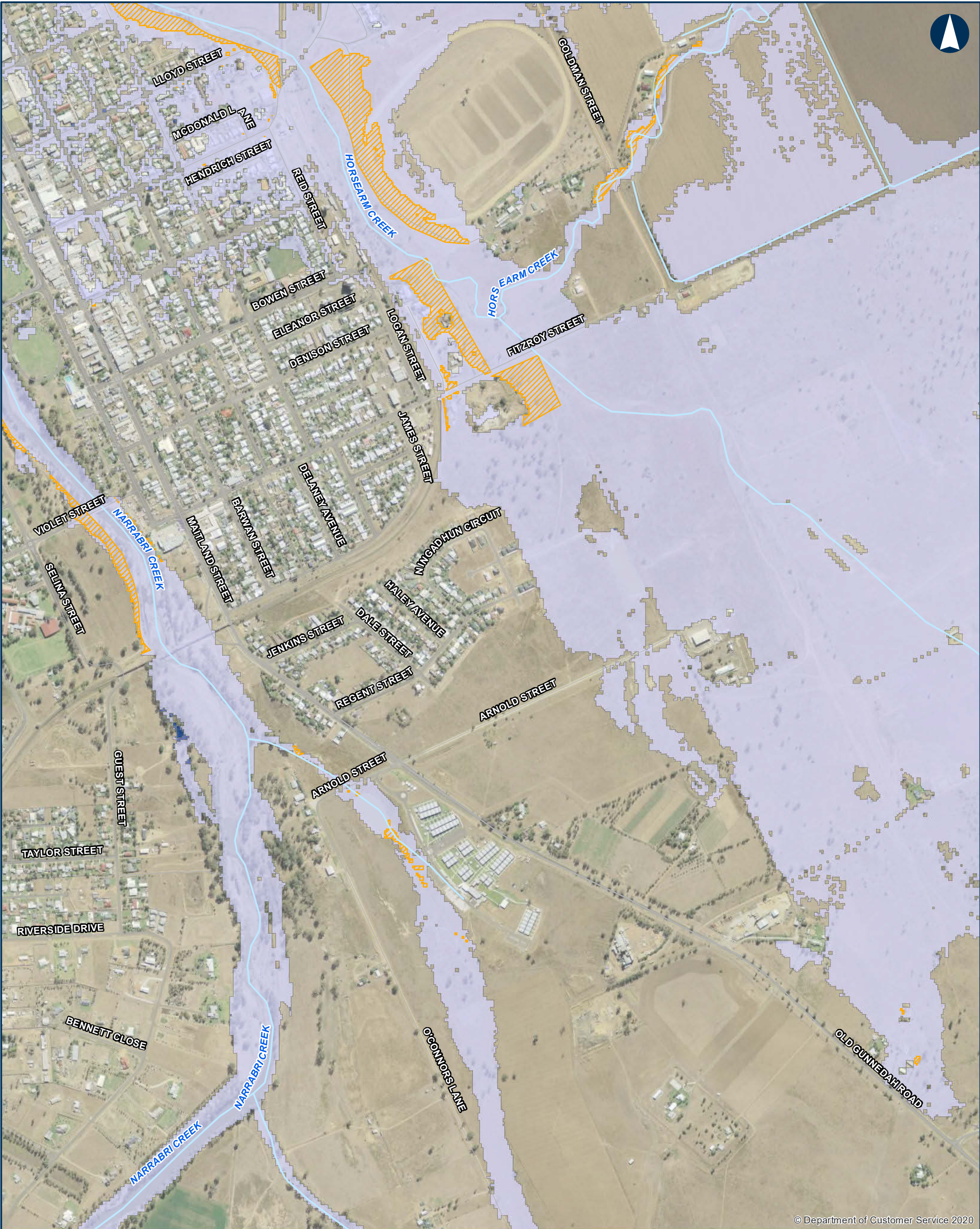
Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road  
Sub arterial road  
Local road  
Watercourse
- Area of departure**  
Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**  
0% - 10%  
10% - 20%  
20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.12

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

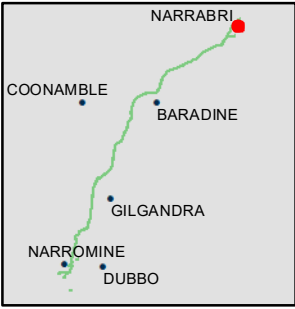
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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road  
Sub arterial road  
Local road  
Watercourse

Area of departure  
Buildings and sealed surfaces, vd change >10%

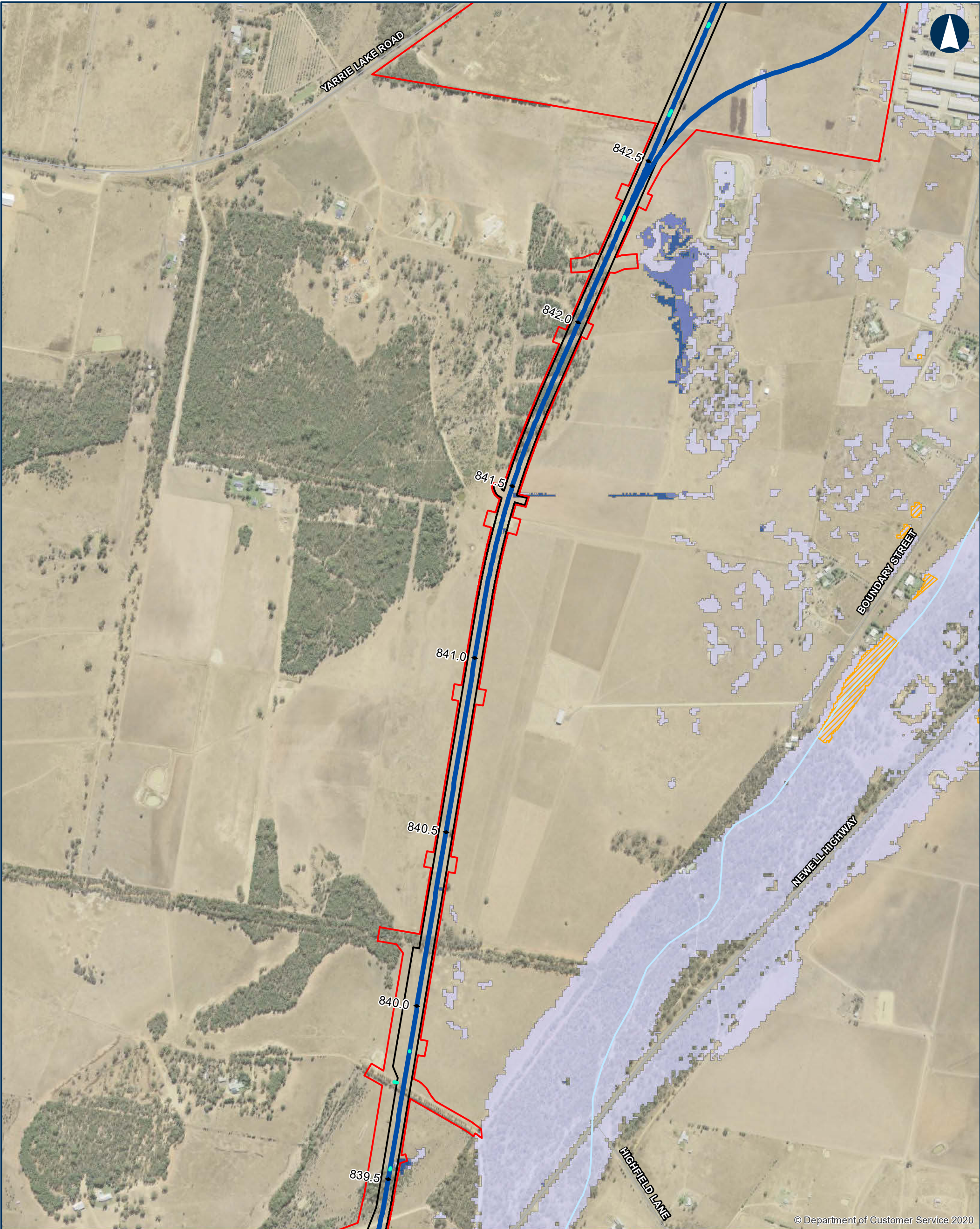
Percentage Change in dv  
0% - 10%  
10% - 20%  
20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.13

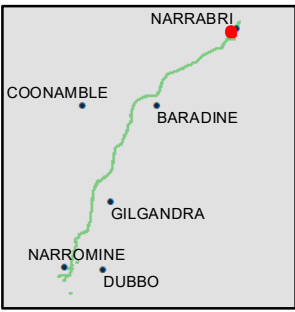
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%
  - 20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.14

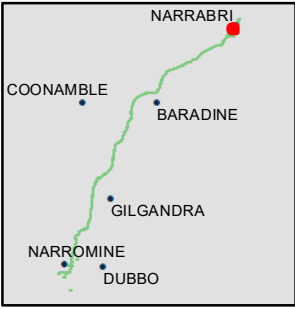
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%
  - 20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.15

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road

Sub arterial road

Local road

Watercourse
- Area of departure

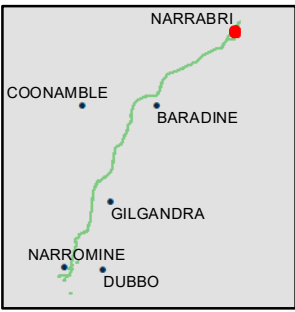
Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%

20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 5% AEP - Narrabri Local

Appendix B - Figure 3.2.16

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

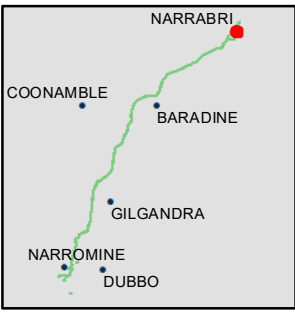
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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Primary road  
Sub arterial road  
Local road  
Watercourse

Area of departure  
Buildings and sealed surfaces, vd change >10%

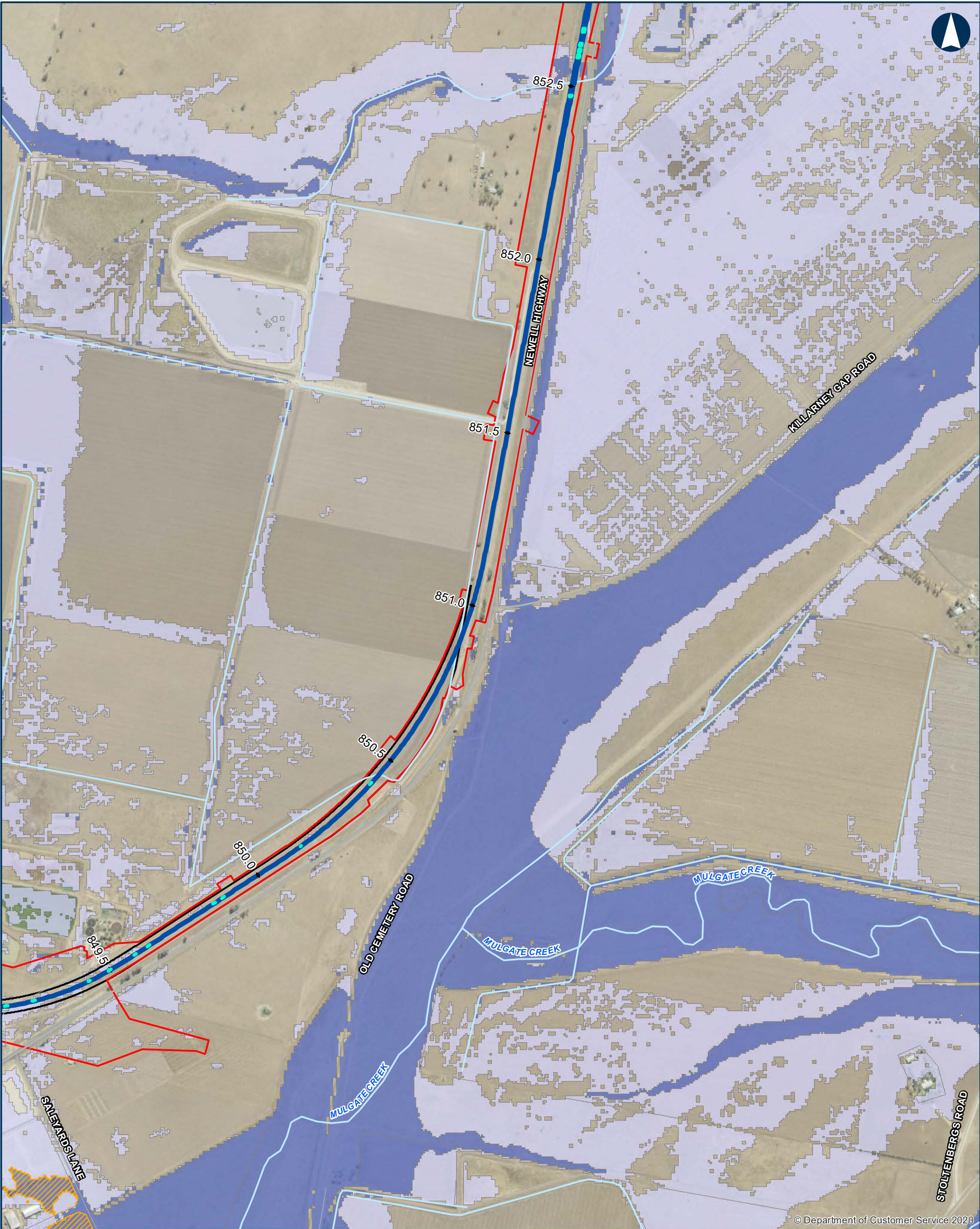
Percentage Change in dv  
0% - 10%  
10% - 20%  
20%+



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.1

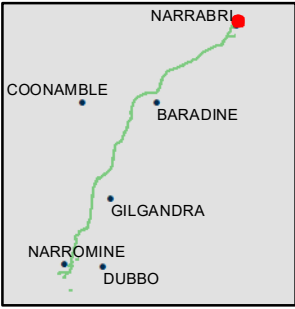
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 2% AEP - Narrabri Local**

**Appendix B - Figure 3.3.2**

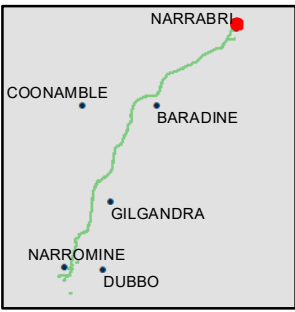
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Culvert
  - Alignment
  - Primary road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.3

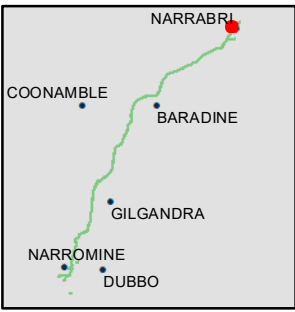
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 2% AEP - Narrabri Local**

Appendix B - Figure 3.3.4

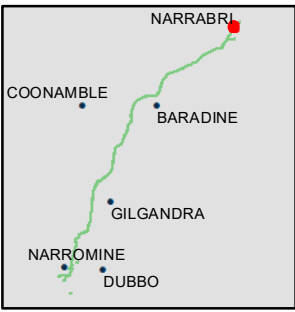
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 2% AEP - Narrabri Local**

**Appendix B - Figure 3.3.5**

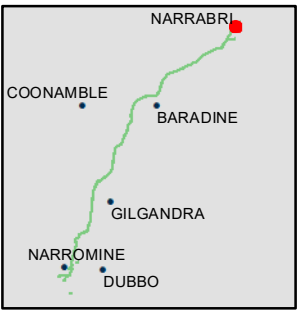
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Culvert
  - Road QDL departure
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - 0% - 10%
  - 10% - 20%
- Percentage Change in dv**



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 2% AEP - Narrabri Local**

**Appendix B - Figure 3.3.6**

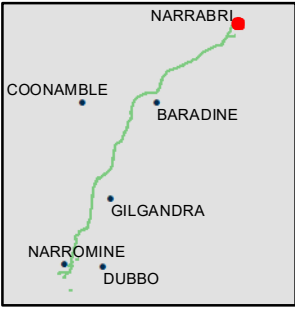
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Road QDL departure
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - 0% - 10%
  - 10% - 20%
- Percentage Change in dv**



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.7

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

- Sub arterial road
- Local road
- Watercourse

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS\_2500\_N2N\_v2\Maps\Deliverables\_SPIR\EIS\Flooding\_Hydrology\Appendices\2500\_EISFWPAPP125\_QDL\_Local\_Hazard\_2pc\_revA.mxd





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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.8

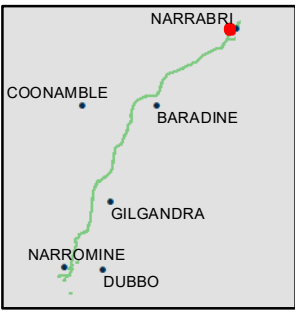
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 2% AEP - Narrabri Local**

**Appendix B - Figure 3.3.9**

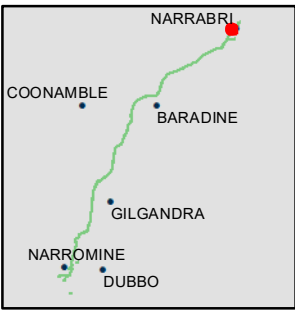
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Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Culvert
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.10

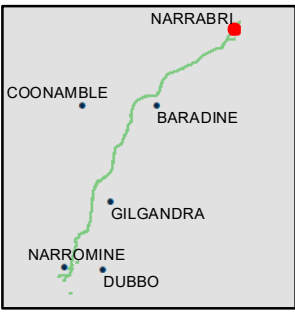
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Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.11

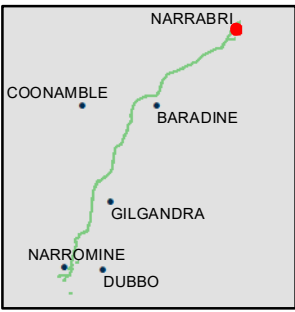
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Road QDL departure**
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 2% AEP - Narrabri Local**

Appendix B - Figure 3.3.12

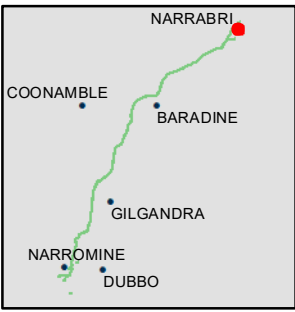
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

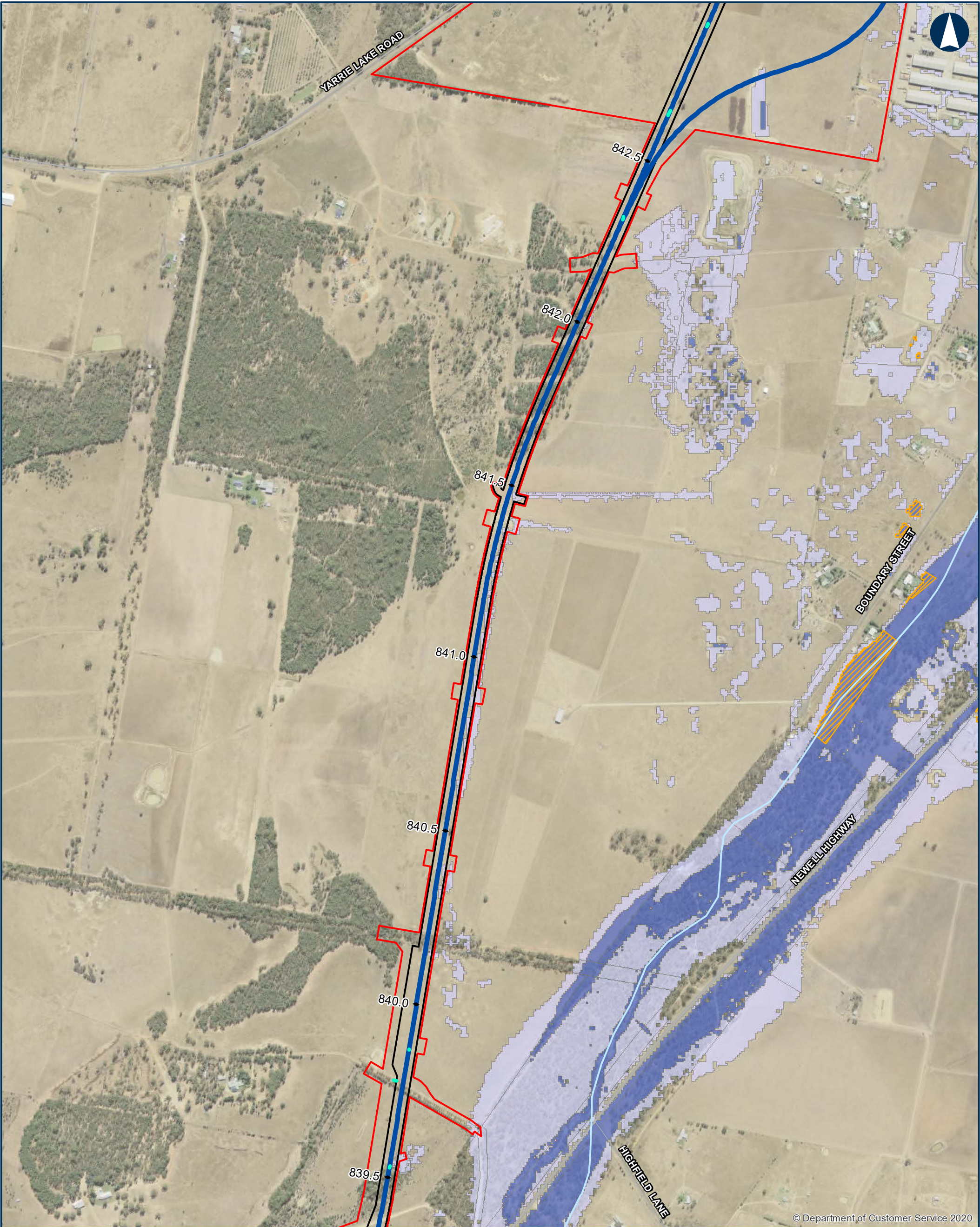
- Road QDL departure**
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.13

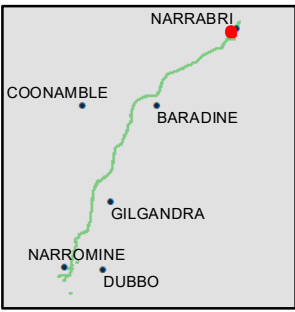
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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.14

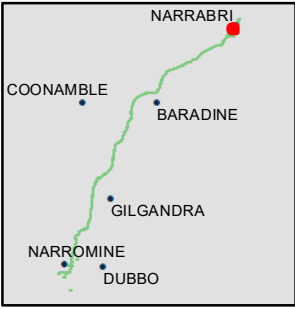
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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.15

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

Scale: 1:10,000

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

Primary road

Sub arterial road

Local road

Watercourse

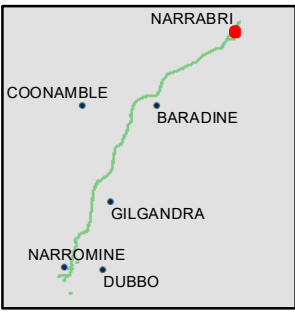
Area of departure

Buildings and sealed surfaces, vd change >10%

Percentage Change in dv

0% - 10%

10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 2% AEP - Narrabri Local

Appendix B - Figure 3.3.16

0 200 400 Metres

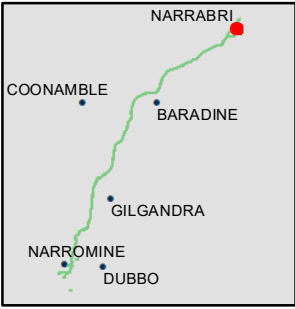
Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

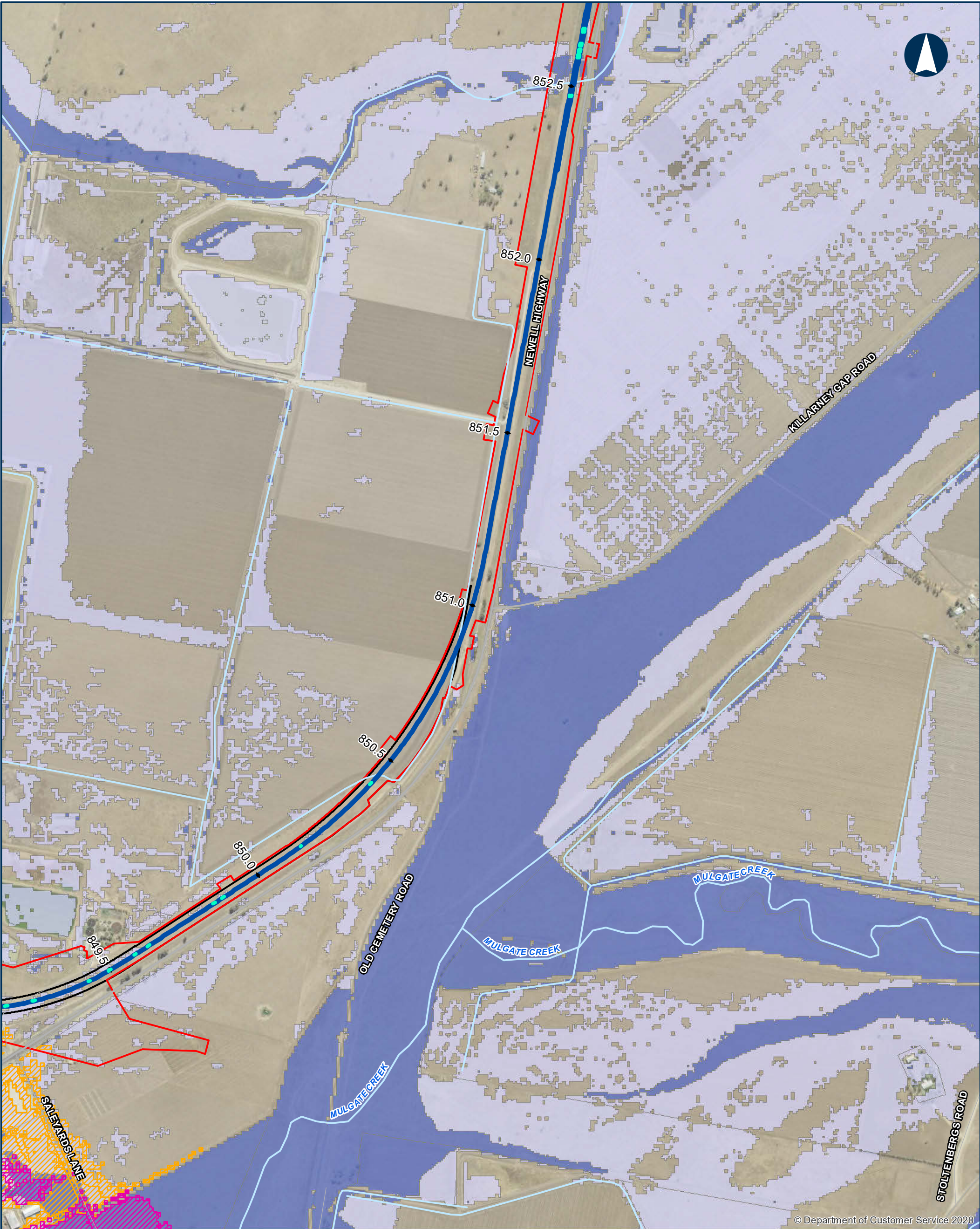
Primary road  
Sub arterial road  
Local road  
Watercourse

Area of departure  
Buildings and sealed surfaces, vd change >10%  
Percentage Change in dv  
0% - 10%  
10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

Appendix B - Figure 3.4.1

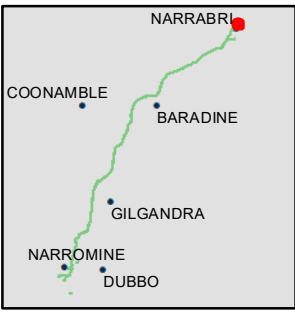
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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
- Alignment
- Primary road
- Arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
  - Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.2

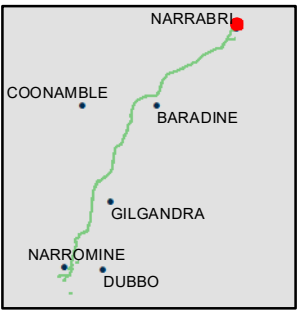
0 200 400 Metres

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Culvert
  - Alignment
  - Primary road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%

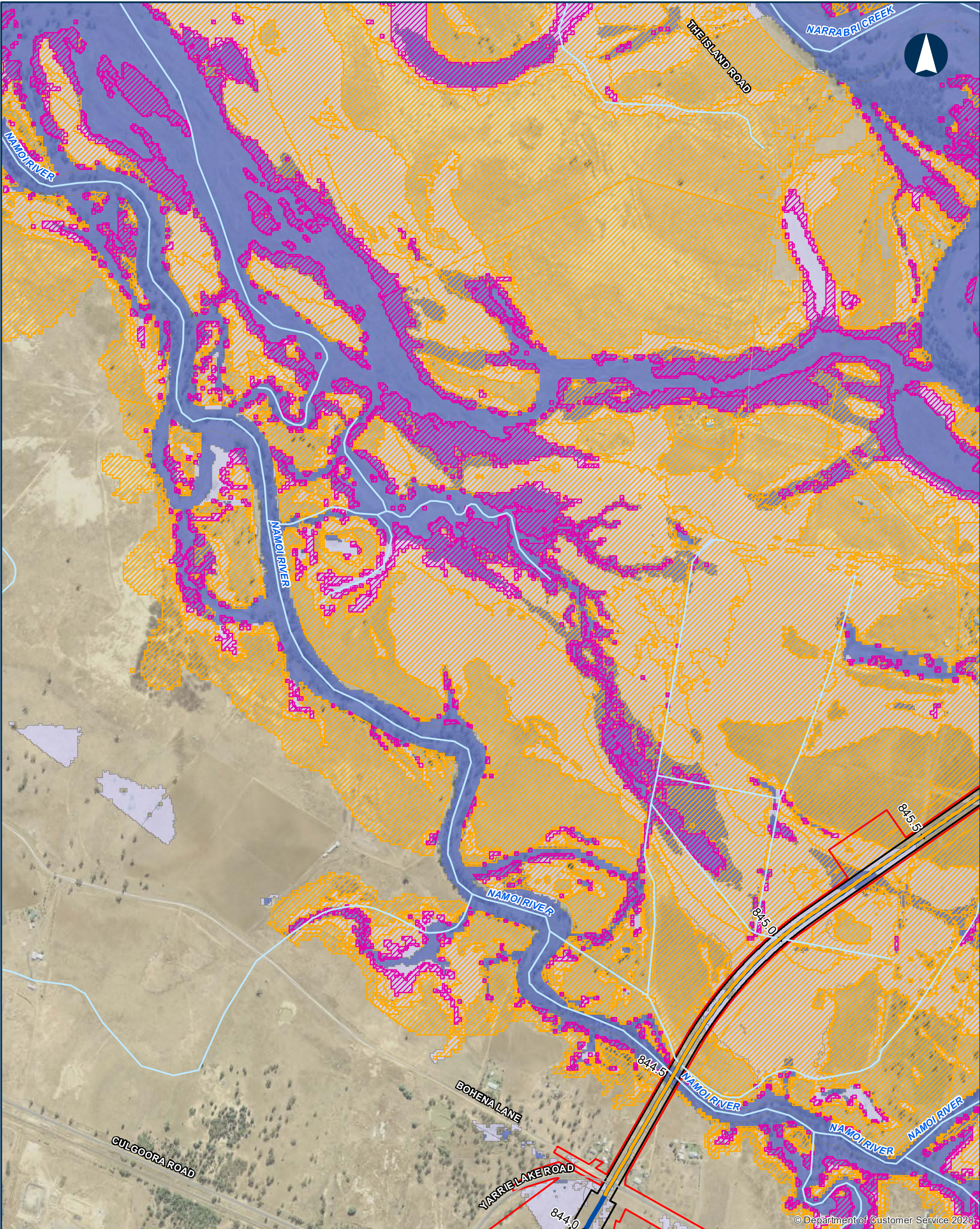


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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

**Appendix B - Figure 3.4.3**

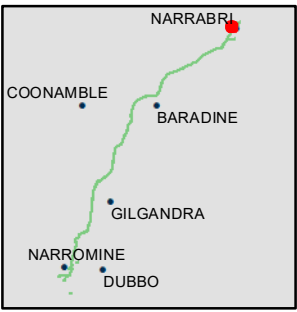
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

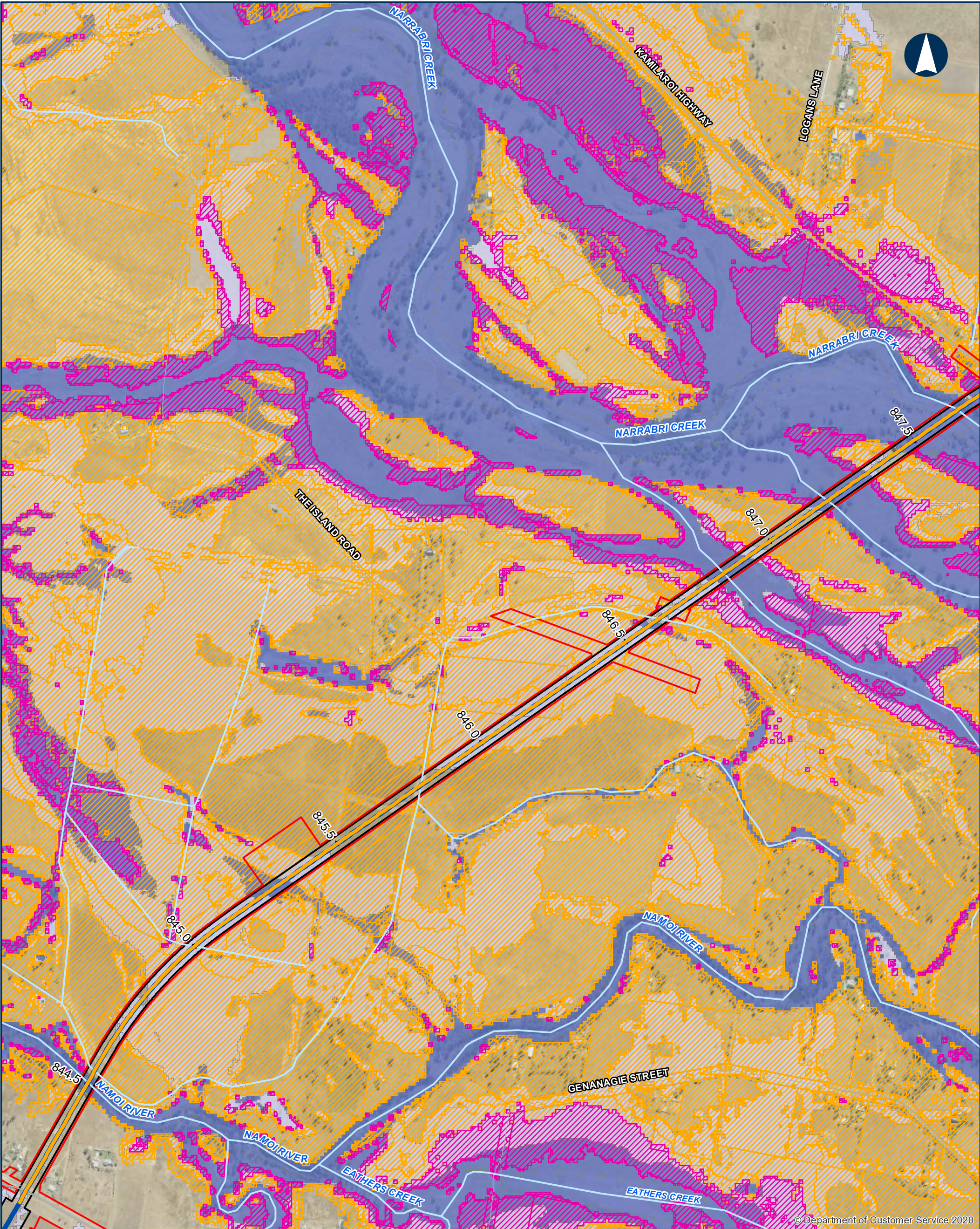
- Bridge
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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# NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.4

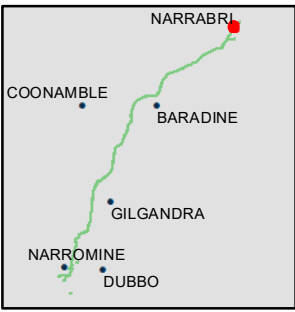
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

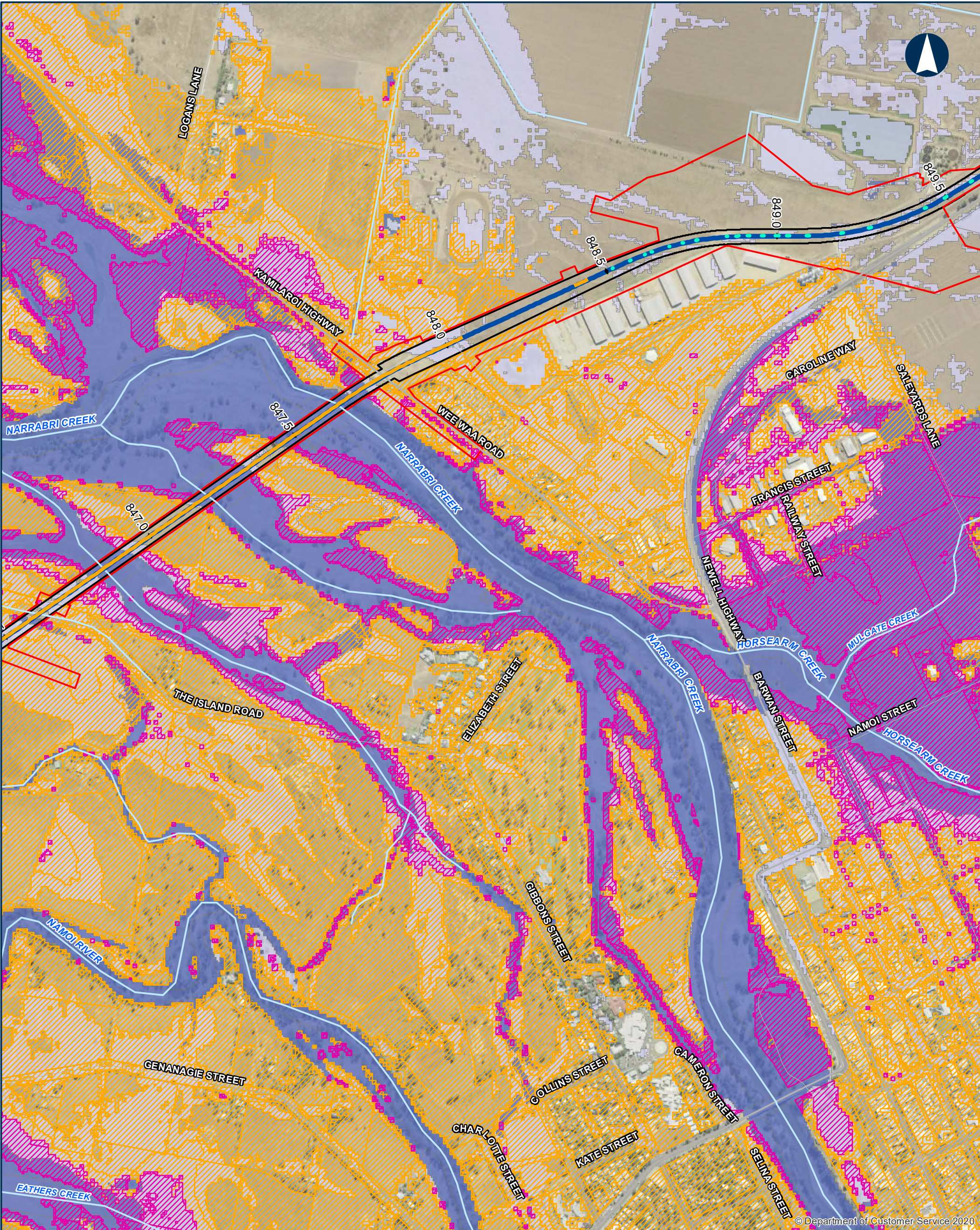
- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.5

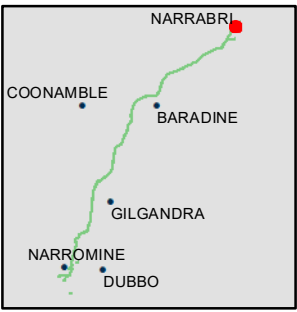
0 200 400 Metres

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Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
  - Rail Corridor
  - Area of departure
  - Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
  - Percentage Change in dv
  - 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

**Appendix B - Figure 3.4.6**

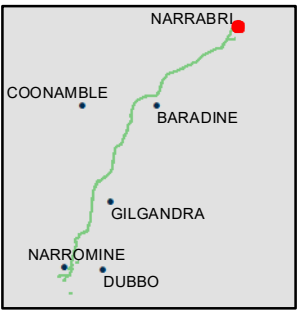
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.7

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

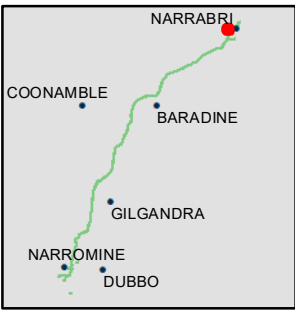
Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.8

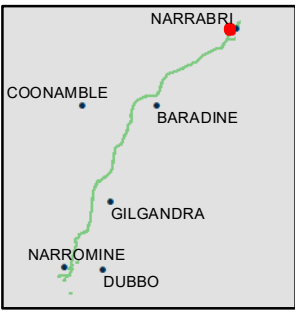
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

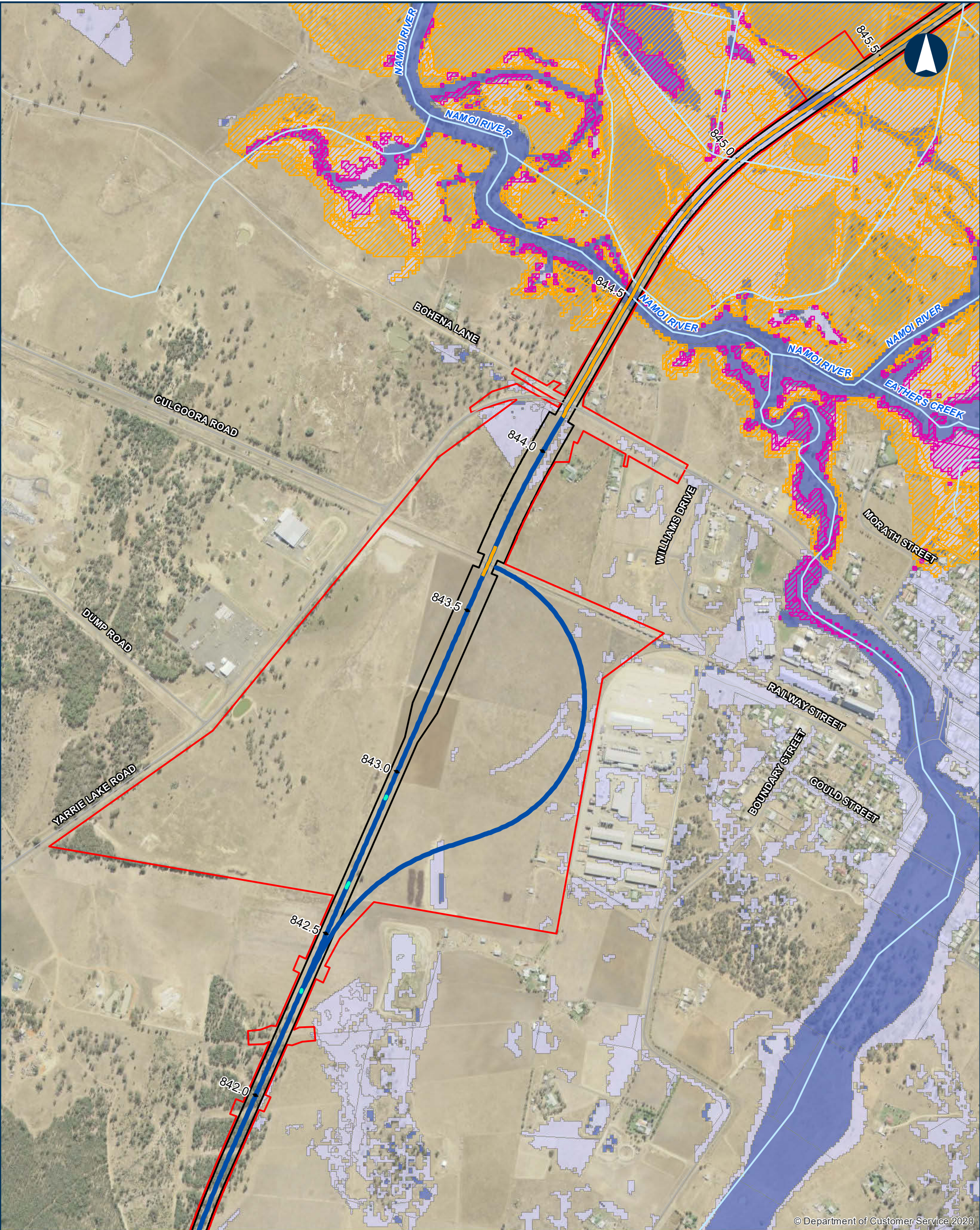
- Culvert
- Alignment
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
- Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
- 10% - 20%



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NARROMINE TO NARRABRI

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.9

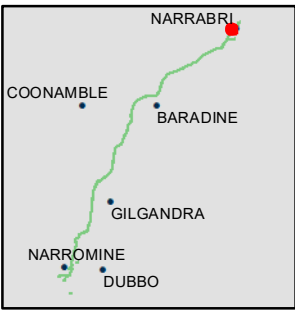
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

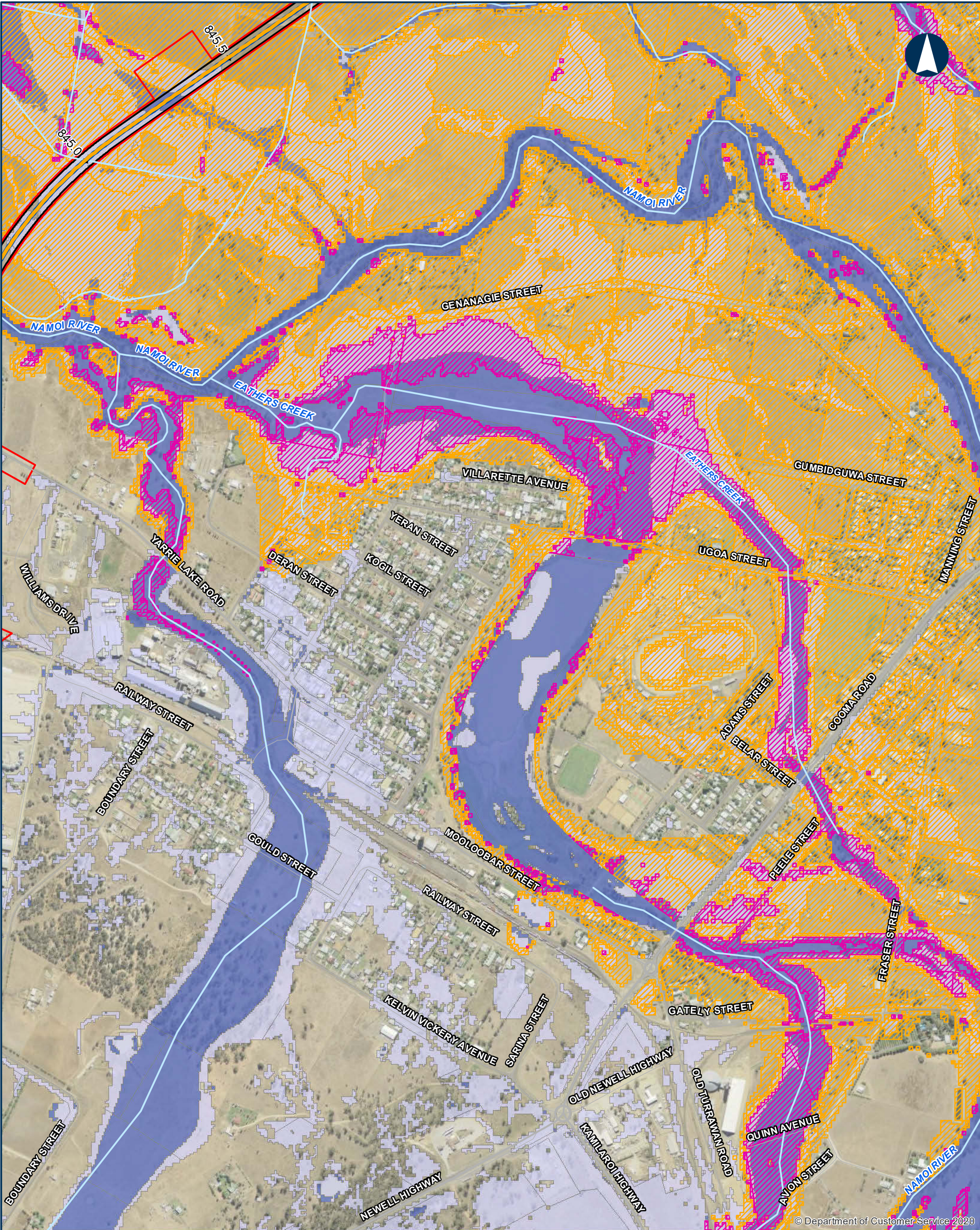
- Bridge
  - Culvert
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

Appendix B - Figure 3.4.10

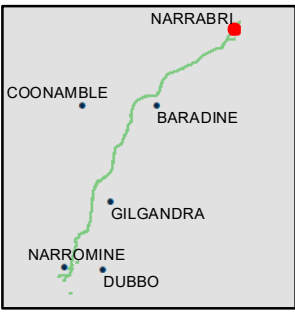
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

Appendix B - Figure 3.4.11

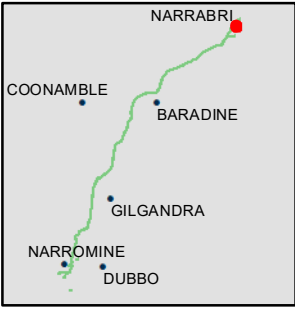
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.12

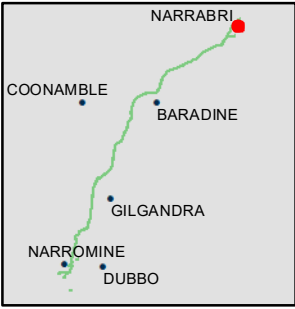
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

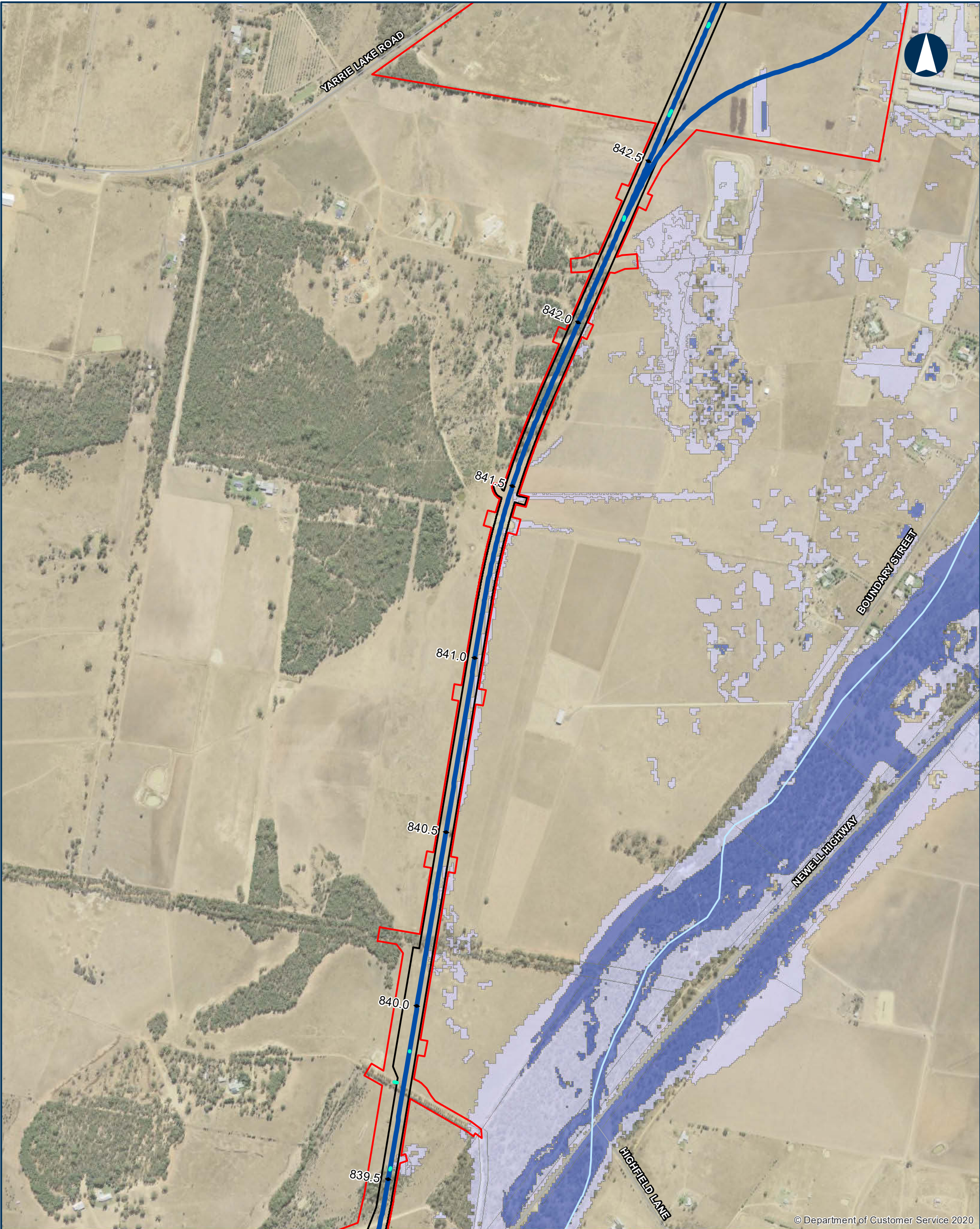
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.13

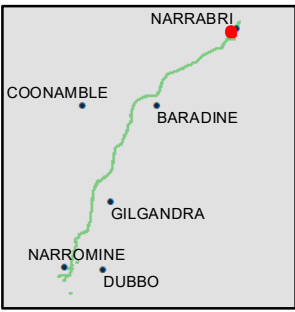
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

**Appendix B - Figure 3.4.14**

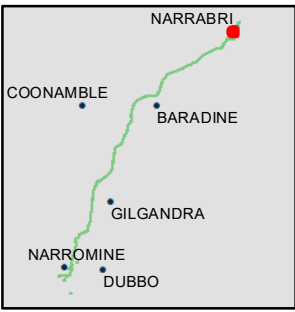
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

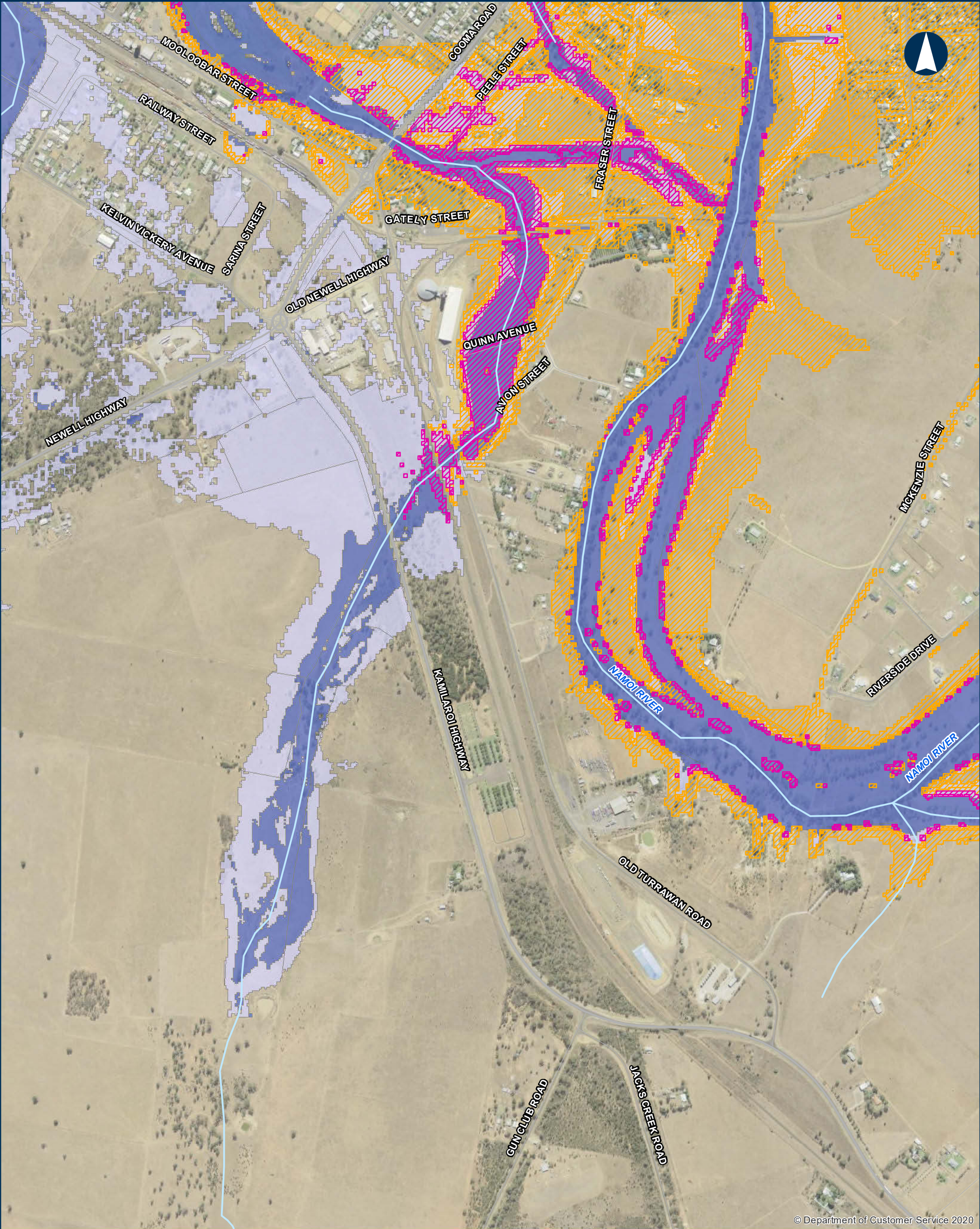
- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- The proposal
- Rail Corridor
- Area of departure
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv
- 0% - 10%
  - 10% - 20%



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QDL departures - Hazard - 1% AEP with blockage - Narrabri Local

Appendix B - Figure 3.4.15

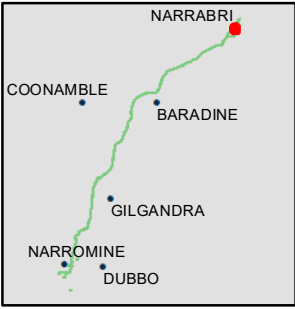
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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**NARROMINE TO NARRABRI**

**QDL departures - Hazard - 1% AEP with blockage - Narrabri Local**

Appendix B - Figure 3.4.16

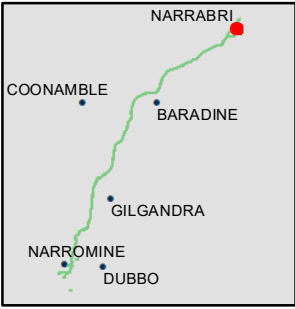
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Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Area of departure**
- Buildings and sealed surfaces, vd change >10%
  - Other unsealed surfaces / elsewhere, vd change >20%
- Percentage Change in dv**
- 0% - 10%
  - 10% - 20%



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