

# TECHNICAL REPORT 03

Updated flooding and hydrology assessment

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

**(Part 18 of 25)**

NARROMINE TO NARRABRI PROJECT



# TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix B QDL compliance

## **Appendix B1** Narrabri local QDL compliance (afflux)

NARROMINE TO NARRABRI PROJECT







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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.1

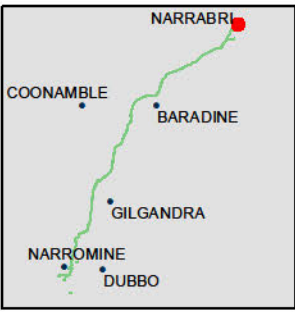
0 200 400 Metres

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
  - Road QDL departure
  - Primary road
  - Arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour**
- 300mm
  - 200mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure**
- Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.1.2**

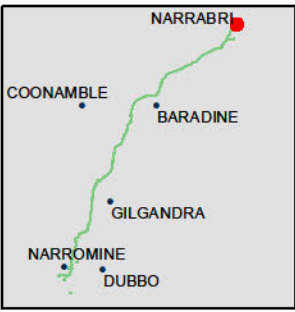
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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- Bridge
  - Culvert
  - Alignment
  - Road QDL departure
  - Primary road
  - Local road
  - Watercourse
  - Pier Locations
  - The proposal
  - Rail Corridor
- Afflux contour**
- 100mm
  - 200mm
  - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.1.3**

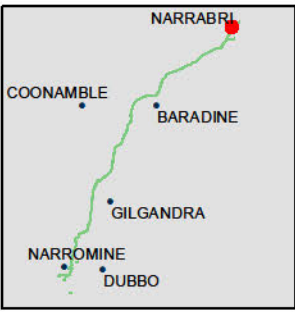
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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

- Bridge
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
  - Pier Locations
  - The proposal
  - Rail Corridor
- Afflux contour**
- 300mm
  - 200mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure**
- Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.4

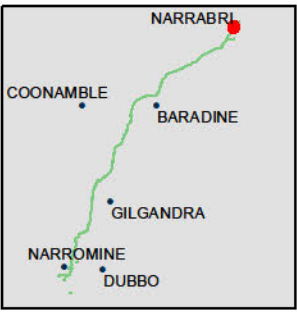
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - Pier Locations
  - The proposal
  - Rail Corridor
- Afflux contour
- 300mm
  - 200mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.1.5**

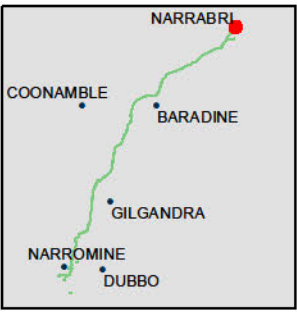
0 200 400 Metres

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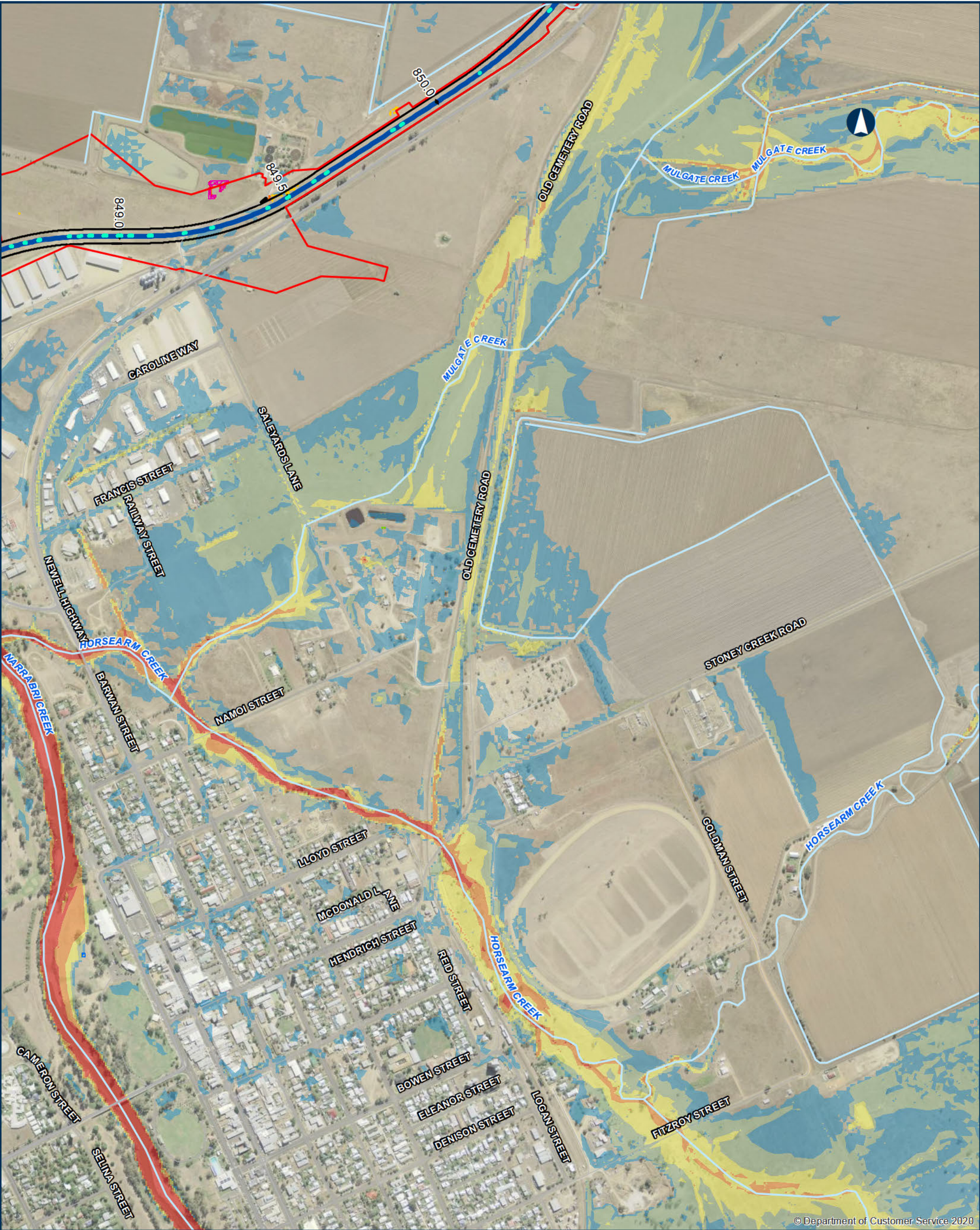
- Bridge
  - Culvert
  - Alignment
  - Road QDL departure
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - Pier Locations
  - The proposal
  - Rail Corridor
- Afflux contour**
- 300mm
  - 200mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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NARROMINE TO NARRABRI

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.6

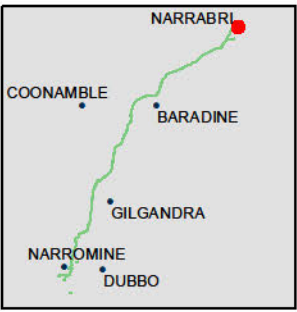
0 200 400 Metres

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

- |                    |  |                                   |
|--------------------|--|-----------------------------------|
| Culvert            | Afflux contour -200mm                                      | Existing Flood Depth 0.0m - 0.25m |
| Alignment          | Afflux contour 100mm                                       | Existing Flood Depth 0.25m - 0.5m |
| Road QDL departure | Afflux contour 200mm                                       | Existing Flood Depth 0.5m - 1.0m  |
| Primary road       | Afflux contour 300mm                                       | Existing Flood Depth 1.0m - 2.0m  |
| Sub arterial road  | Area of departure Urban and Infrastructure >100mm increase | Existing Flood Depth >2.0m        |
| Local road         | Area of departure Other non-urban >300mm increase          |                                   |
| Watercourse        |  |                                   |
| The proposal       |  |                                   |
| Rail Corridor      |  |                                   |



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NARROMINE TO NARRABRI

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.7

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\_SPIRE\IS\Flooding\_Hydrology\Appendices\2500\_EISFWPAPP115\_QDL\_Local\_Afflux\_20pc\_revA.mxd





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NARROMINE TO NARRABRI

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.8

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

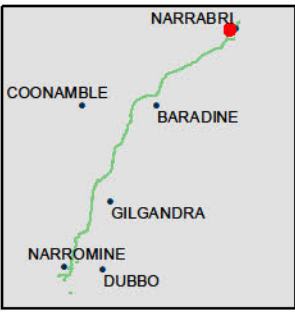
The proposal

Rail Corridor
- Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

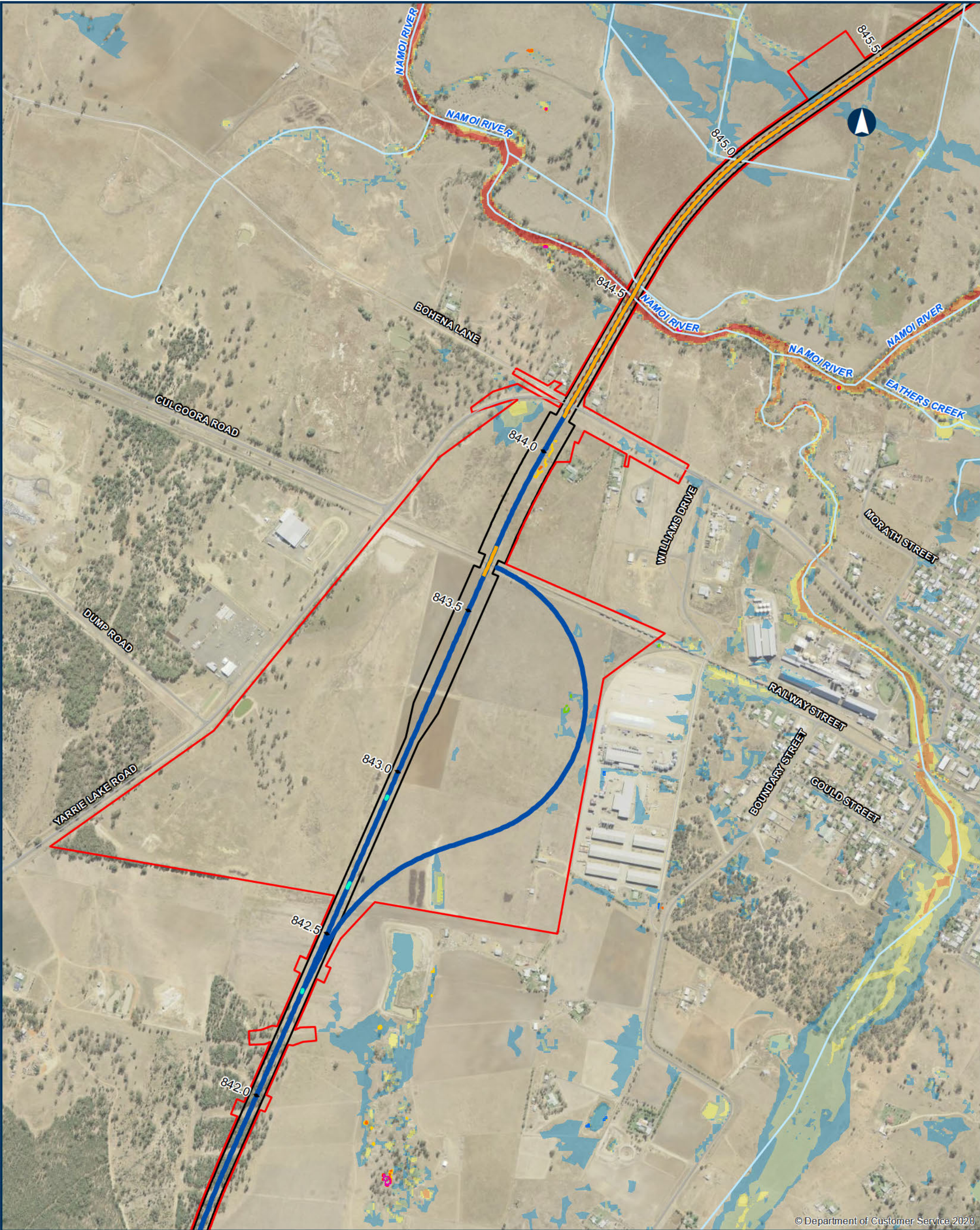


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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.1.9**

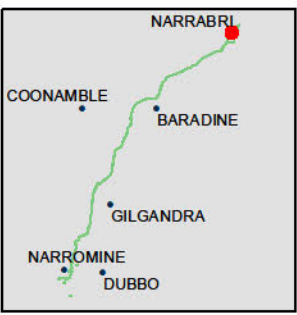
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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- Bridge
  - Culvert
  - Alignment
  - Sub arterial road
  - Local road
  - Watercourse
  - Pier Locations
  - The proposal
  - Rail Corridor
- Afflux contour**
- 300mm
  - 200mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.10

0 200 400 Metres

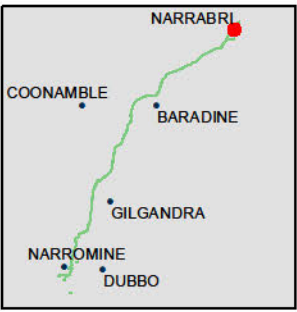
Coordinate System: GDA 1994 MGA Zone 55

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

- Bridge
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - Pier Locations
  - The proposal
  - Rail Corridor
- Afflux contour
- 300mm
  - 200mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.1.11**

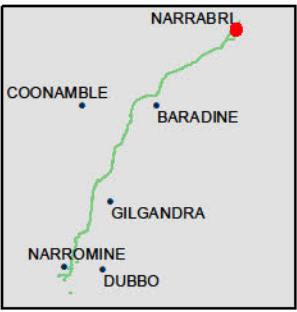
0 200 400 Metres

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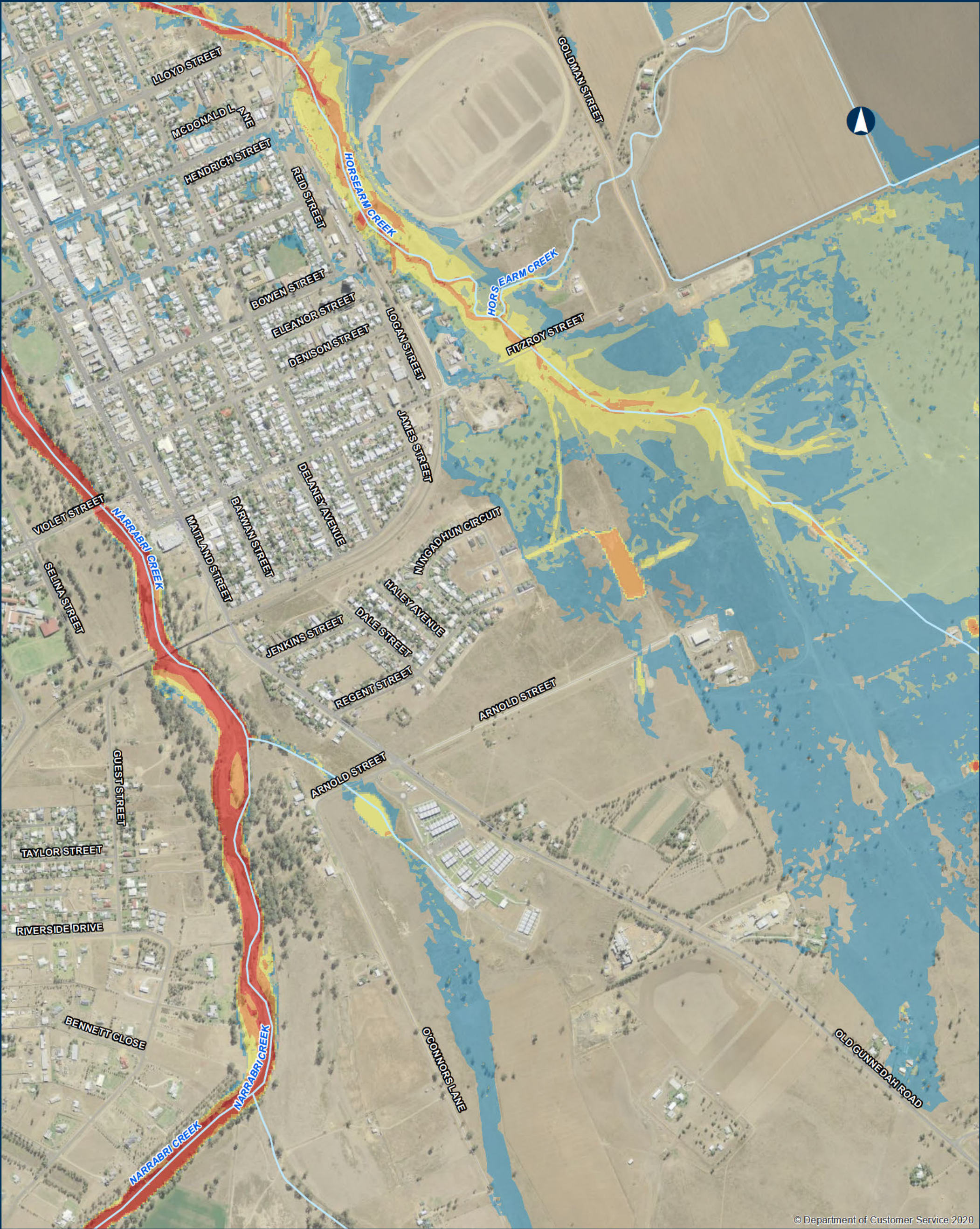
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Afflux contour**
- >300mm
  - >200mm
  - >100mm
- Area of departure**
- Urban and Infrastructure >100mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.1.12

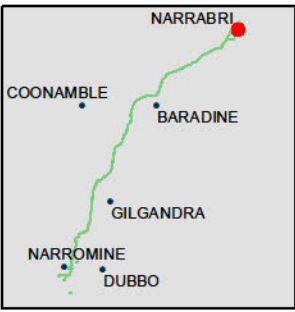
0 200 400 Metres

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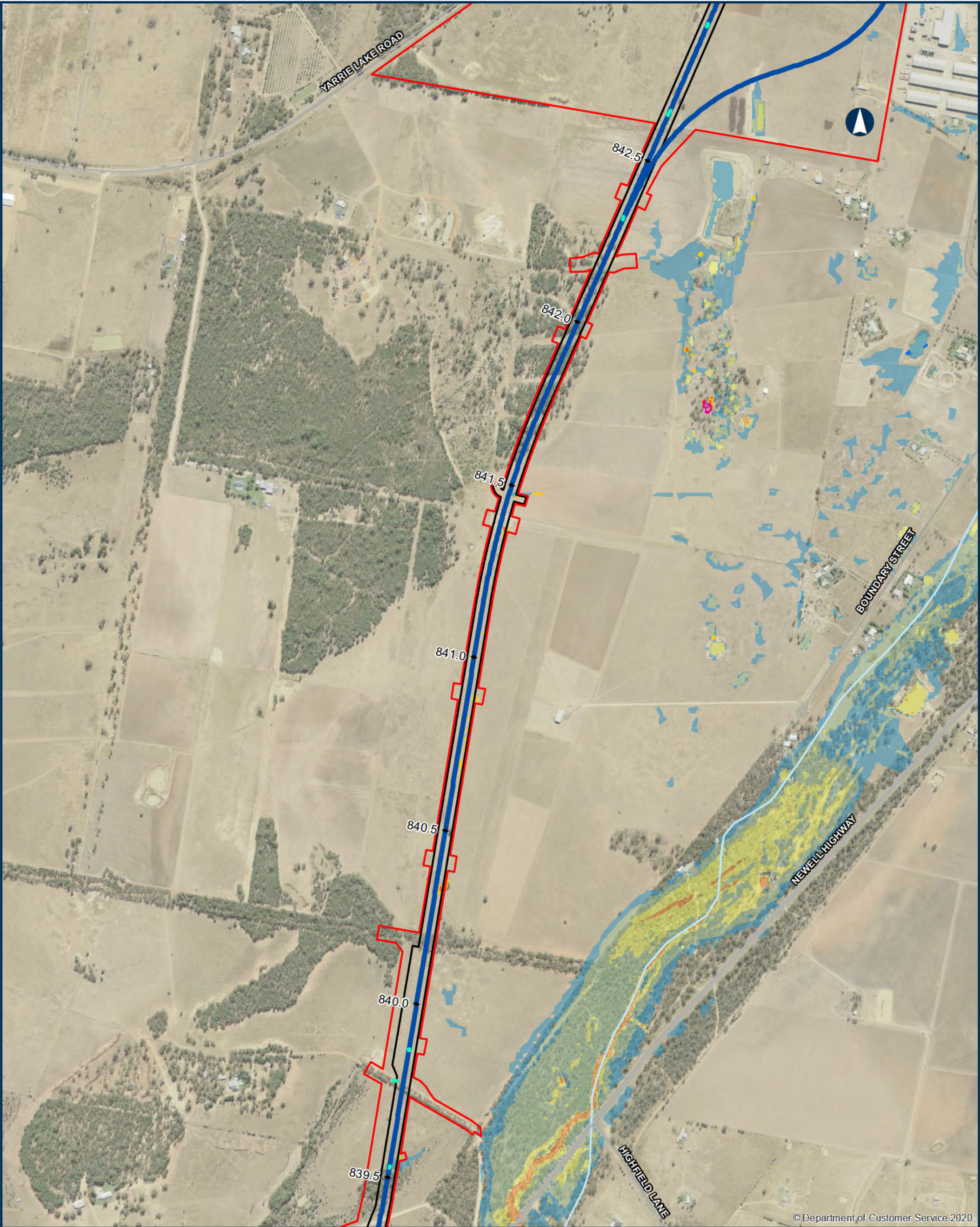
- |                   |                |                      |
|-------------------|----------------|----------------------|
| Primary road      | Afflux contour | Existing Flood Depth |
| Sub arterial road | 100mm          | 0.0m - 0.25m         |
| Local road        |                | 0.25m - 0.5m         |
| Watercourse       |                | 0.5m - 1.0m          |
|                   |                | 1.0m - 2.0m          |
|                   |                | > 2.0m               |



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.1.13

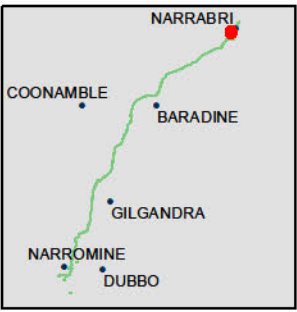
0 200 400 Metres

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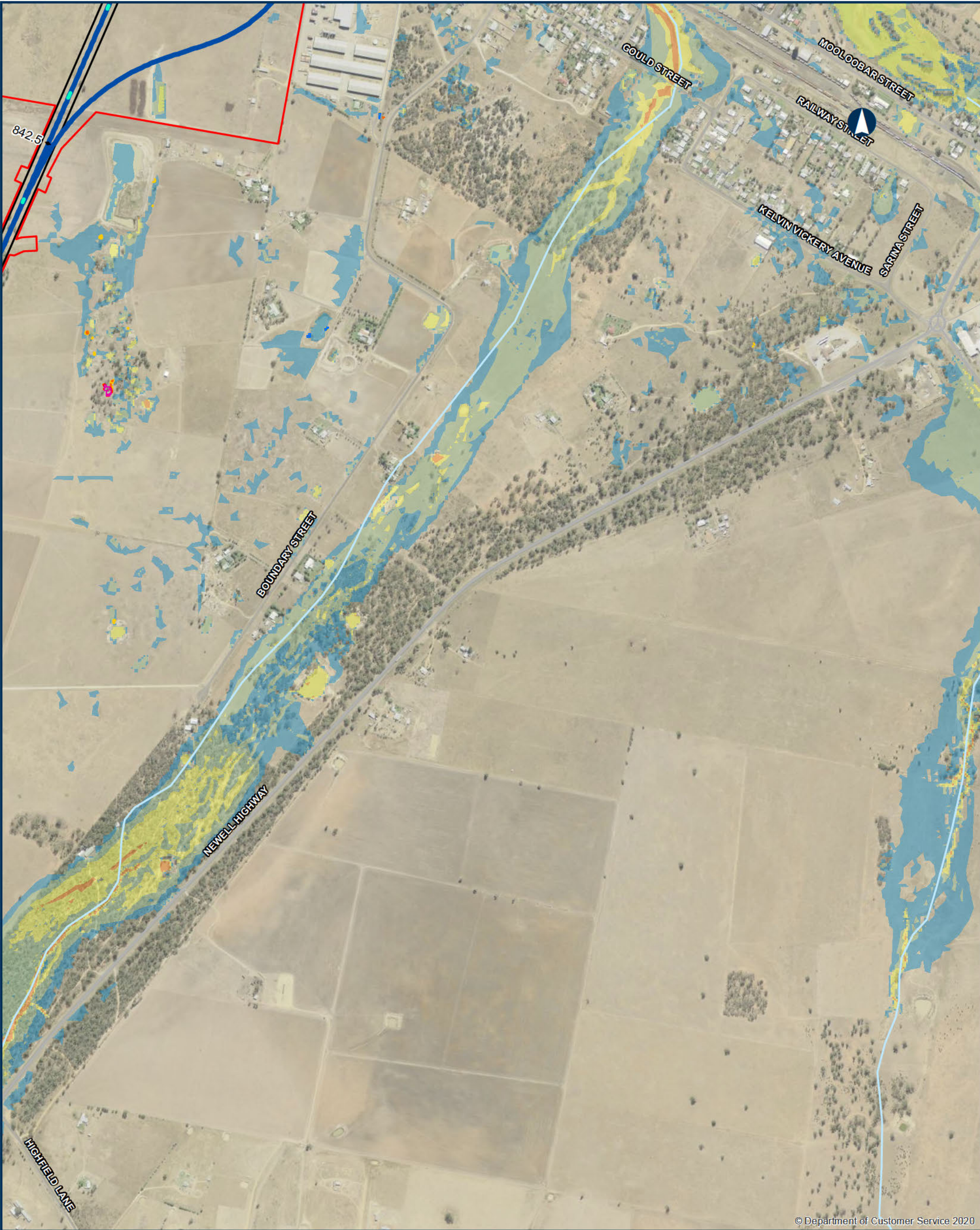
- Culvert
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour**
- 100mm
  - 200mm
  - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.1.14

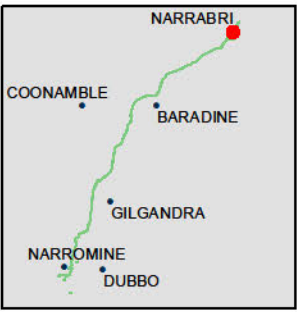
0 200 400 Metres

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

- |                   |  |                      |
|-------------------|--|----------------------|
| Culvert           | Afflux contour                           | Existing Flood Depth |
| Alignment         | 100mm                                    | 0.0m - 0.25m         |
| Primary road      | 200mm                                    | 0.25m - 0.5m         |
| Sub arterial road | 300mm                                    | 0.5m - 1.0m          |
| Local road        | Area of departure                        | 1.0m - 2.0m          |
| Watercourse       | Urban and Infrastructure >100mm increase |                      |
| The proposal      | Other non-urban >300mm increase          |                      |
| Rail Corridor     |  |                      |



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NARROMINE TO NARRABRI

QDL departures - Afflux - 20% AEP - Narrabri Local

Appendix B - Figure 1.1.15

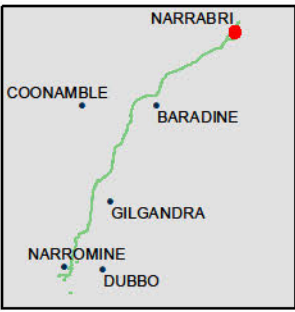
0 200 400 Metres

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

- |                   |                |                      |
|-------------------|----------------|----------------------|
| Primary road      | Afflux contour | Existing Flood Depth |
| Sub arterial road | -300mm         | 0.0m - 0.25m         |
| Local road        | -200mm         | 0.25m - 0.5m         |
| Watercourse       | 100mm          | 0.5m - 1.0m          |
|                   |                | 1.0m - 2.0m          |
|                   |                | > 2.0m               |



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.1.16

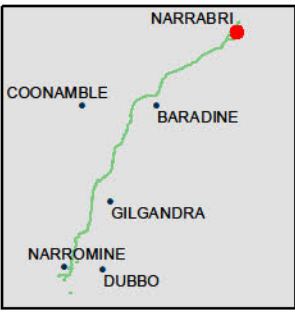
0 200 400 Metres

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	Afflux contour	Existing Flood Depth
Sub arterial road	-300mm	0.0m - 0.25m
Local road	-200mm	0.25m - 0.5m
Watercourse		0.5m - 1.0m
		1.0m - 2.0m
		>2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.1

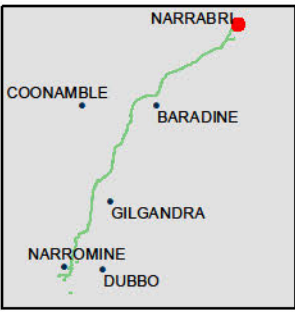
0 200 400 Metres

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

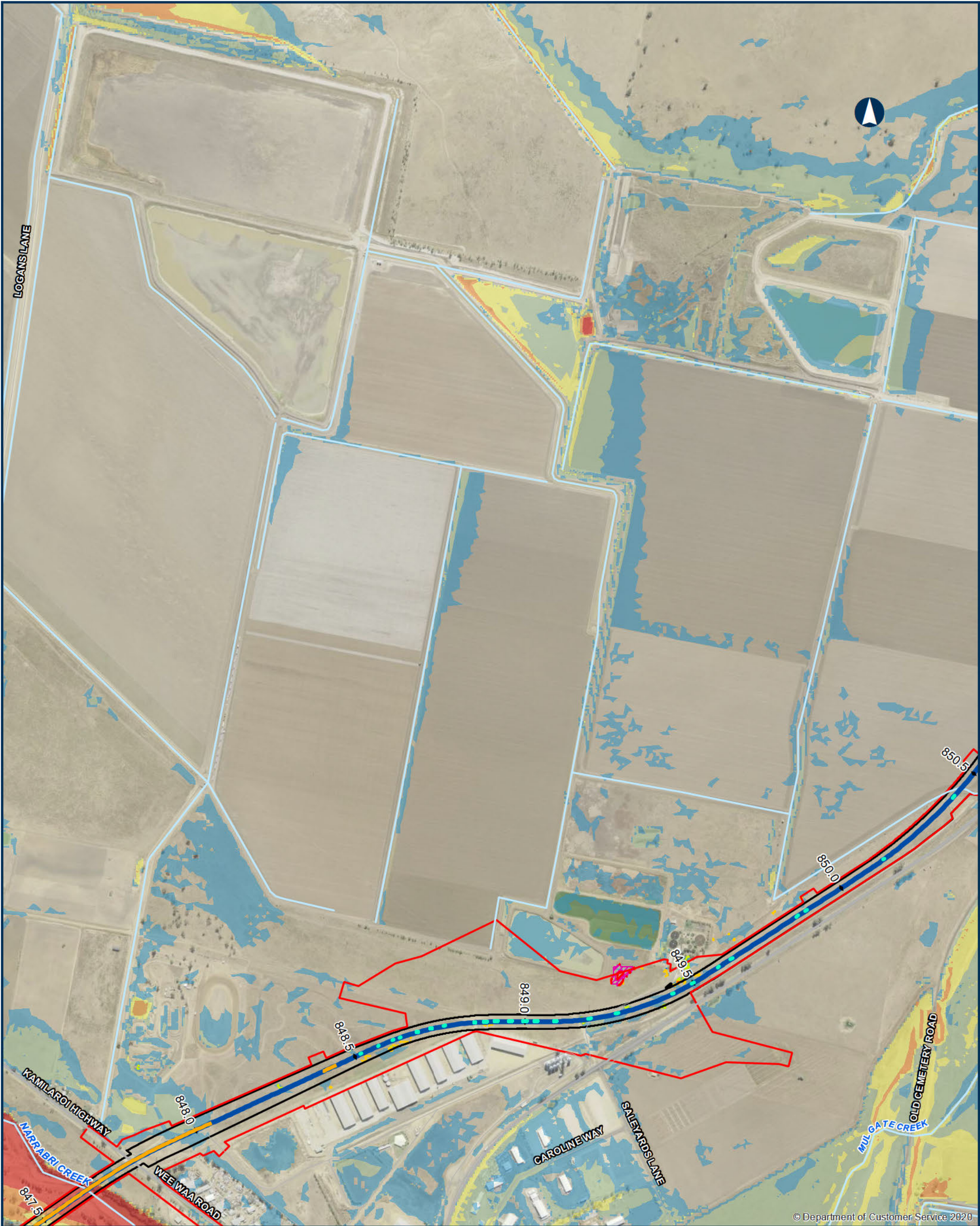
- Culvert
  - Road QDL departure
  - Alignment
  - Primary road
  - Arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour**
- 300mm
  - 100mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Agricultural >200mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.2.2**

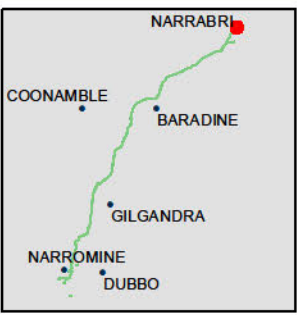
0 200 400 Metres

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             | Afflux contour                           | Existing Flood Depth |
| Culvert            | -100mm                                   | 0.0m - 0.25m         |
| Road QDL departure | 100mm                                    | 0.25m - 0.5m         |
| Alignment          | 200mm                                    | 0.5m - 1.0m          |
| Primary road       | 300mm                                    | 1.0m - 2.0m          |
| Local road         | Area of departure                        | > 2.0m               |
| Watercourse        | Urban and Infrastructure >100mm increase |                      |
| The proposal       | Other non-urban >300mm increase          |                      |
| Rail Corridor      |  |                      |



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.2.3**

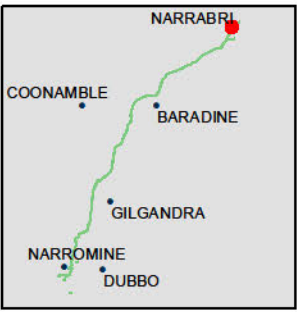
0 200 400 Metres

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            | Afflux contour                  | Existing Flood Depth |
| Alignment         | -100mm                          | 0.0m - 0.25m         |
| Sub arterial road | 100mm                           | 0.25m - 0.5m         |
| Local road        | 200mm                           | 0.5m - 1.0m          |
| Watercourse       | 300mm                           | 1.0m - 2.0m          |
| The proposal      | Area of departure               | >2.0m                |
| Rail Corridor     | Other non-urban >300mm increase |                      |



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.4

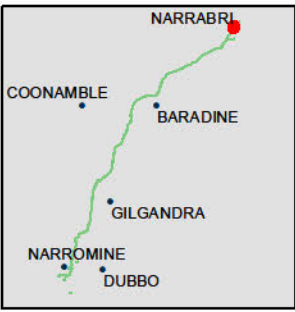
0 200 400 Metres

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
- Afflux contour
- 100mm
  - 100mm
  - 200mm
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.2.5**

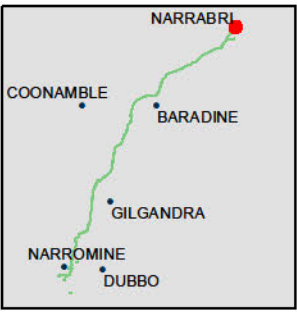
0 200 400 Metres

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

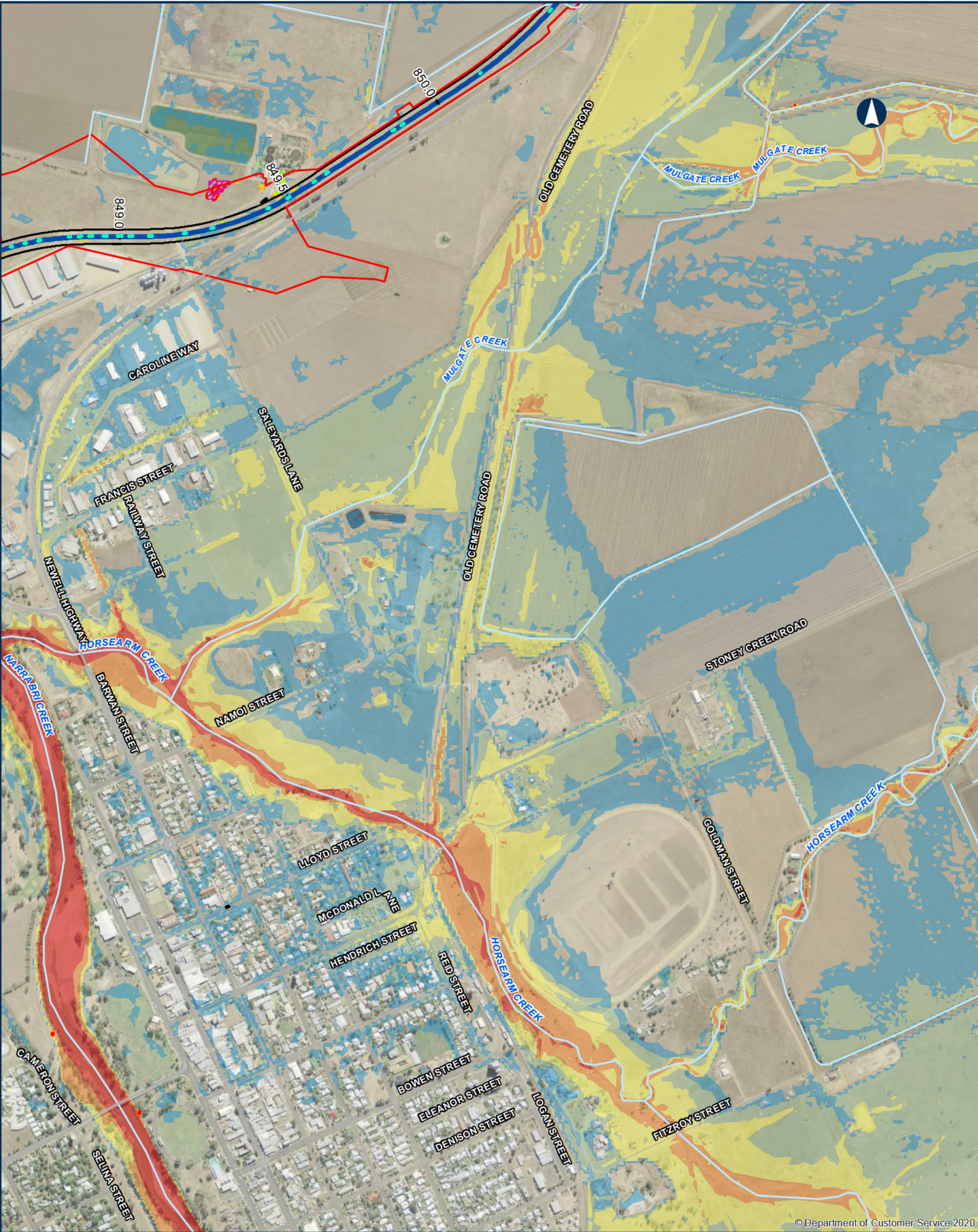
- Bridge
  - Culvert
  - Road QDL departure
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour**
- 100mm
  - 100mm
  - 200mm
  - 300mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.6

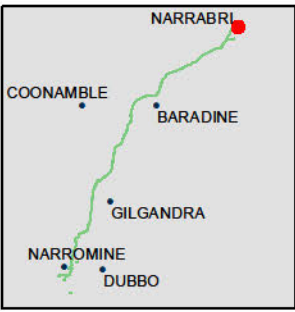
0 200 400 Metres

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

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"><li>Culvert</li><li>Road QDL departure</li><li>Alignment</li><li>Primary road</li><li>Sub arterial road</li><li>Local road</li><li>Watercourse</li><li>The proposal</li><li>Rail Corridor</li></ul> | <ul style="list-style-type: none"><li>Afflux contour<ul style="list-style-type: none"><li>-100mm</li><li>100mm</li><li>200mm</li><li>300mm</li></ul></li><li>Area of departure<ul style="list-style-type: none"><li>Urban and Infrastructure &gt;100mm increase</li><li>Agricultural &gt;200mm increase</li><li>Other non-urban &gt;300mm increase</li></ul></li></ul> | <ul style="list-style-type: none"><li>Existing Flood Depth<ul style="list-style-type: none"><li>0.0m - 0.25m</li><li>0.25m - 0.5m</li><li>0.5m - 1.0m</li><li>1.0m - 2.0m</li><li>&gt;2.0m</li></ul></li></ul> |
|---|--|--|



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.7

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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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\_SPIRE\IS\Flooding\_Hydrology\Appendices\2500\_EISFWPAPP119\_QDL\_Local\_Afflux\_5pc\_revA.mxd





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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.8

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

Sub arterial road

Local road

Watercourse

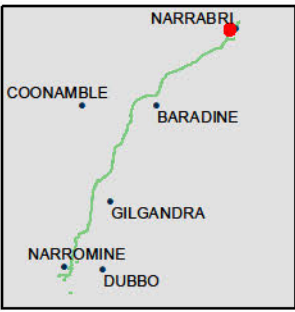
The proposal

Rail Corridor
- Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.2.9**

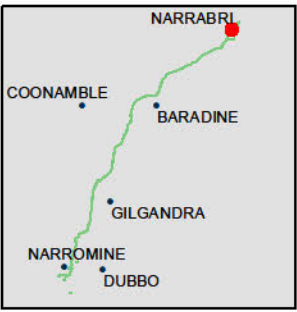
0 200 400 Metres

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
- Afflux contour**
- 100mm
  - 100mm
  - 200mm
- Area of departure**
- Urban and Infrastructure >100mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.2.10

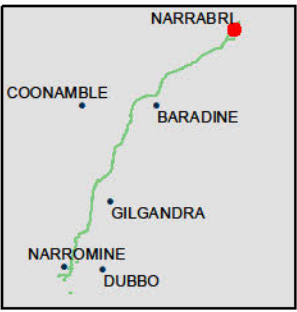
0 200 400 Metres

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

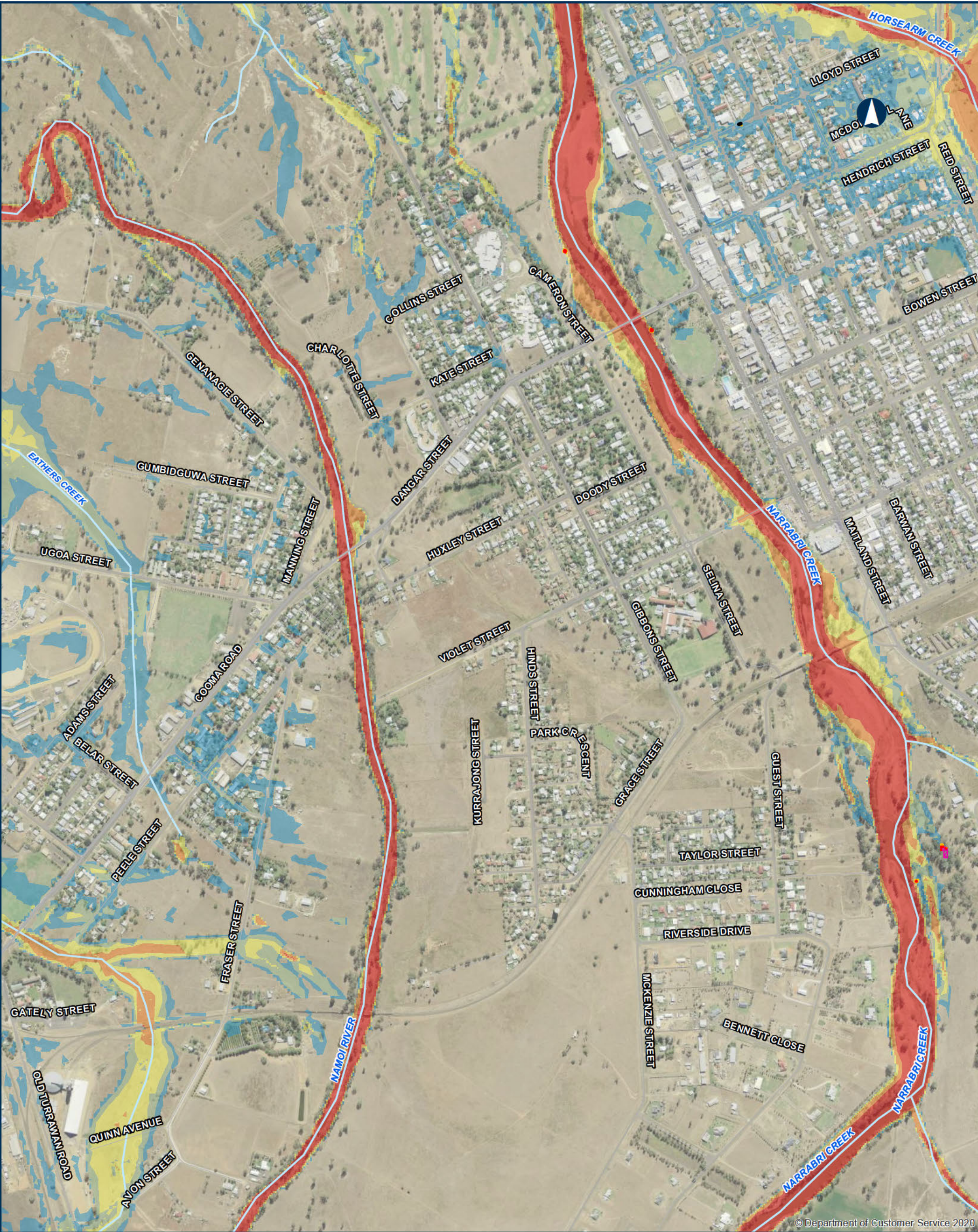
- Bridge
  - Road QDL departure
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour**
- 100mm
  - 100mm
- Area of departure**
- Urban and Infrastructure >100mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.11

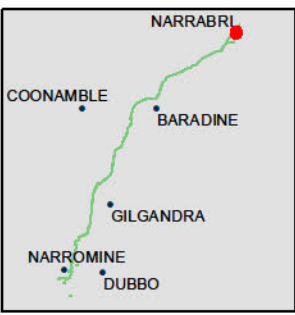
0 200 400 Metres

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

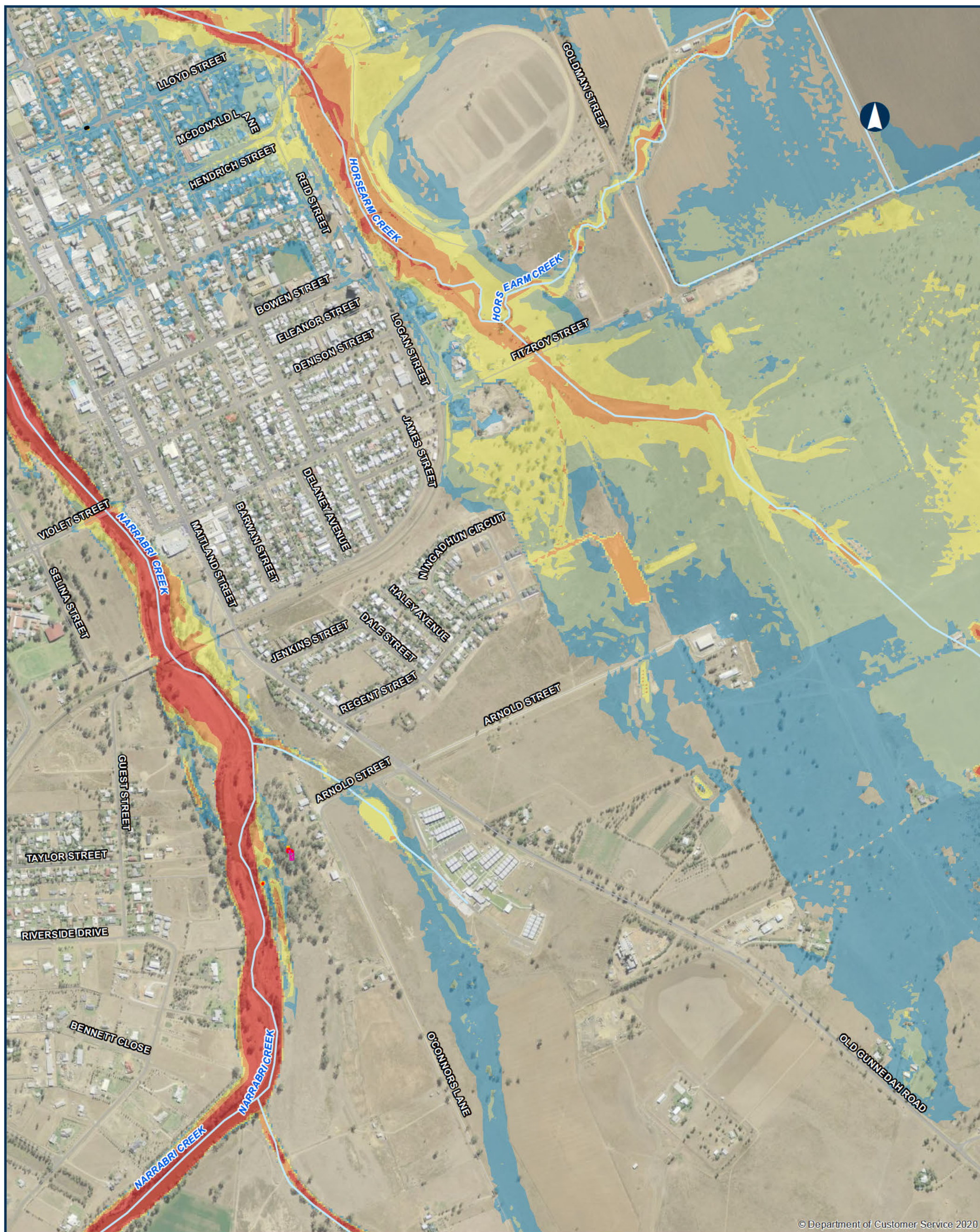
- Road QDL departure
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Afflux contour
- 100mm
  - 200mm
  - 300mm
- Area of departure
- Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.12



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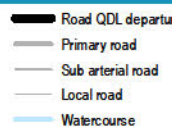
Date: 10/08/2022

Paper A3


Date: 10/08/2022  
Author: JacobsGHD

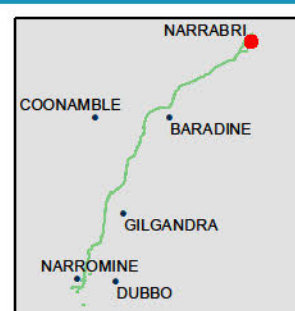
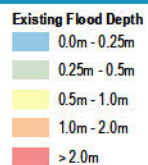
Paper: A3  
Scale: 1:10,000

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



**Afflux contour**  
 100mm  
 200mm  
 300mm  
**Area of departure**

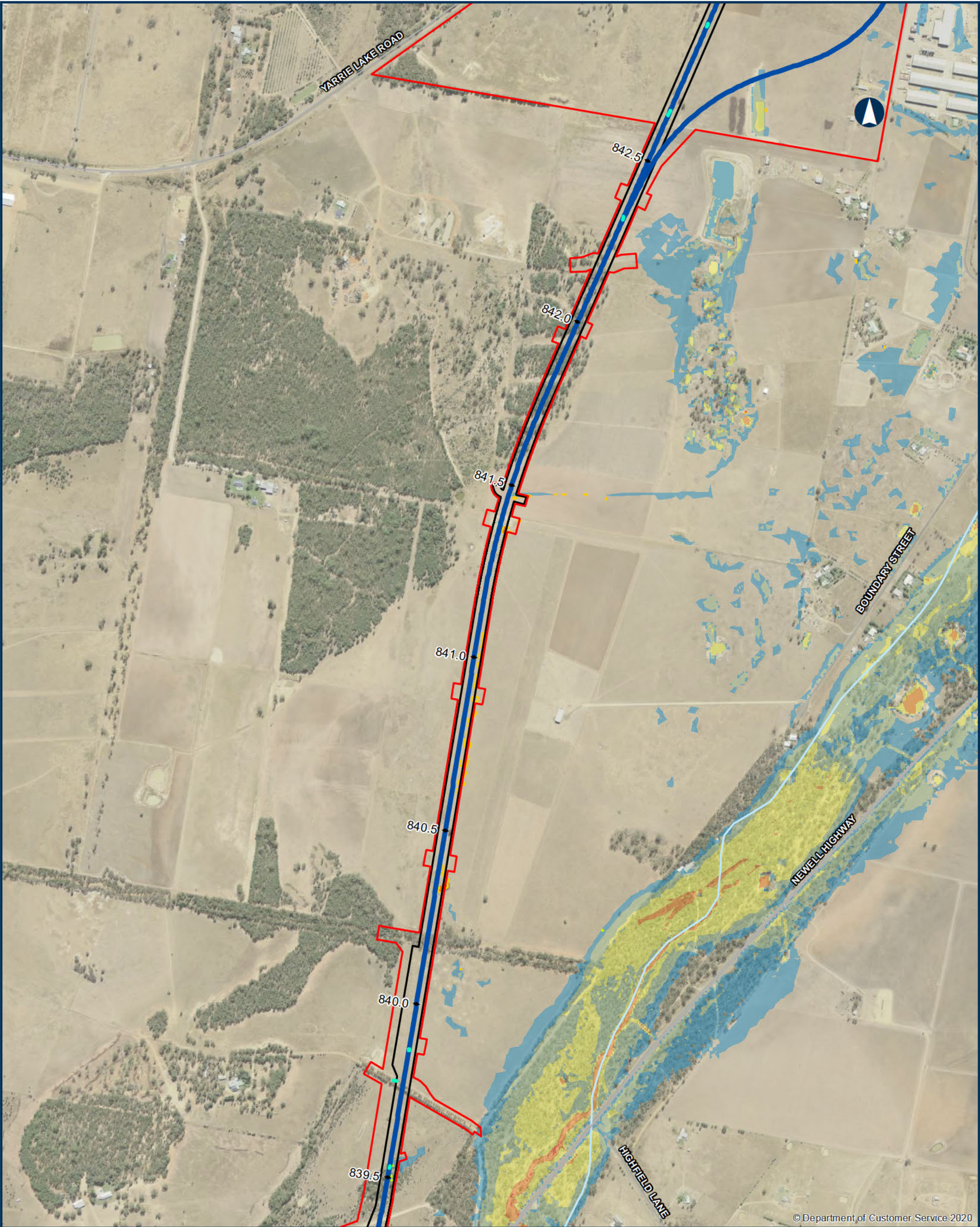
**Area of departure**  
 Other non-urban >300mm increase



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.2.13

0 200 400 Metres

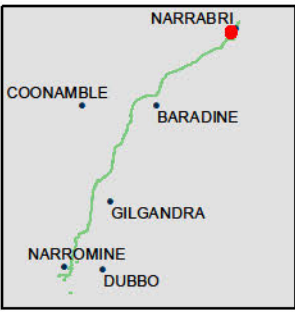
Coordinate System: GDA 1994 MGA Zone 55

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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           |  | Afflux contour                           |
|  | Alignment         |  | -100mm                                   |
|  | Primary road      |  | 100mm                                    |
|  | Sub arterial road |  | 200mm                                    |
|  | Local road        |  | Area of departure                        |
|  | Watercourse       |  | Urban and Infrastructure >100mm increase |
|  | The proposal      |  |  |
|  | Rail Corridor     |  |  |

- |  |                      |
|--|----------------------|
|  | Existing Flood Depth |
|  | 0.0m - 0.25m         |
|  | 0.25m - 0.5m         |
|  | 0.5m - 1.0m          |
|  | 1.0m - 2.0m          |
|  | >2.0m                |



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.14

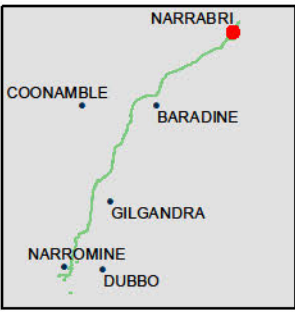
0 200 400 Metres

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
  - Road QDL departure
  - Alignment
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour**
- 100mm
  - 100mm
  - 200mm
- Area of departure**
- Urban and Infrastructure >100mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 5% AEP - Narrabri Local

Appendix B - Figure 1.2.15

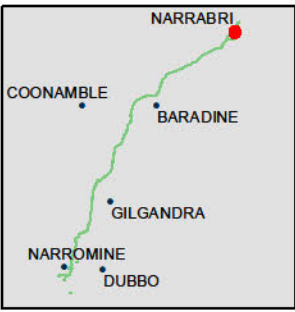
0 200 400 Metres

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

- |                    |                |                      |
|--------------------|----------------|----------------------|
| Road QDL departure | Afflux contour | Existing Flood Depth |
| Primary road       | -300mm         | 0.0m - 0.25m         |
| Sub arterial road  | -100mm         | 0.25m - 0.5m         |
| Local road         | 100mm          | 0.5m - 1.0m          |
| Watercourse        |                | 1.0m - 2.0m          |
|                    |                | >2.0m                |



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.2.16**

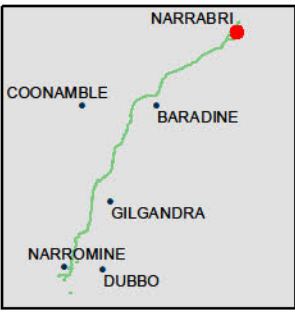
0 200 400 Metres

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
- Afflux contour**
- 100mm
  - 200mm
  - 300mm
- Area of departure**
- Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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NARROMINE TO NARRABRI QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.1

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

Arterial road

Local road

Watercourse

The proposal

Rail Corridor
- Afflux contour

200mm

Area of departure

Urban and Infrastructure >100mm increase

Other non-urban >300mm increase
- Existing Flood Depth

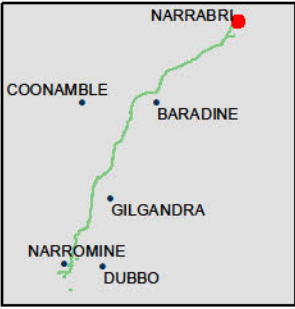
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

>2.0m



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.2

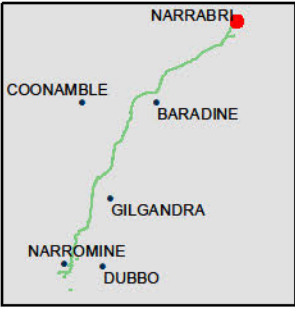
0 200 400 Metres

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
  - Road QDL departure
  - Alignment
  - Primary road
  - Local road
  - Watercourse
  - The proposal
  - Rail Corridor
- Afflux contour
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.3

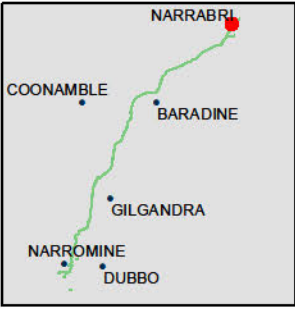
0 200 400 Metres

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

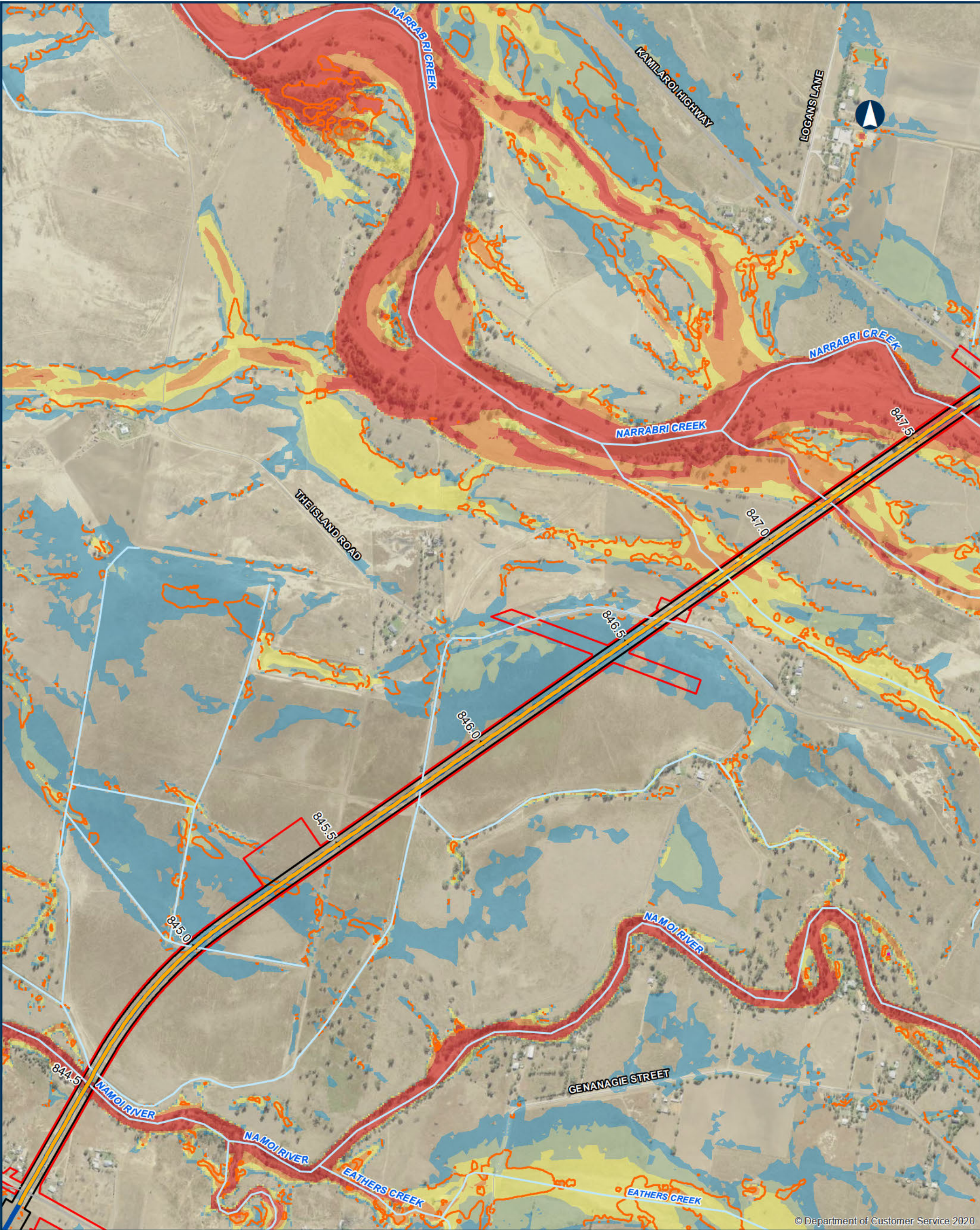
- |                   |                |                      |
|-------------------|----------------|----------------------|
| Bridge            | Afflux contour | Existing Flood Depth |
| Alignment         | 200mm          | 0.0m - 0.25m         |
| Sub arterial road |                | 0.25m - 0.5m         |
| Local road        |                | 0.5m - 1.0m          |
| Watercourse       |                | 1.0m - 2.0m          |
| The proposal      |                | > 2.0m               |
| Rail Corridor     |                |                      |



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.4

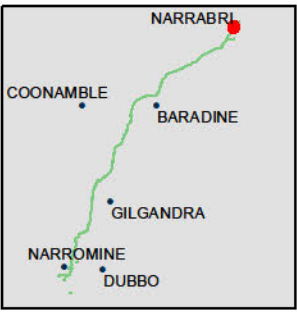
0 200 400 Metres

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
- Afflux contour
- 200mm
- Area of departure
- Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.5

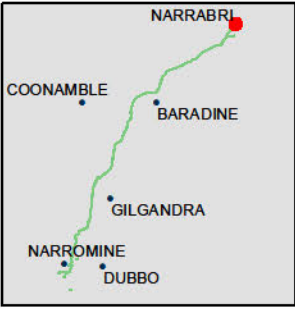
0 200 400 Metres

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

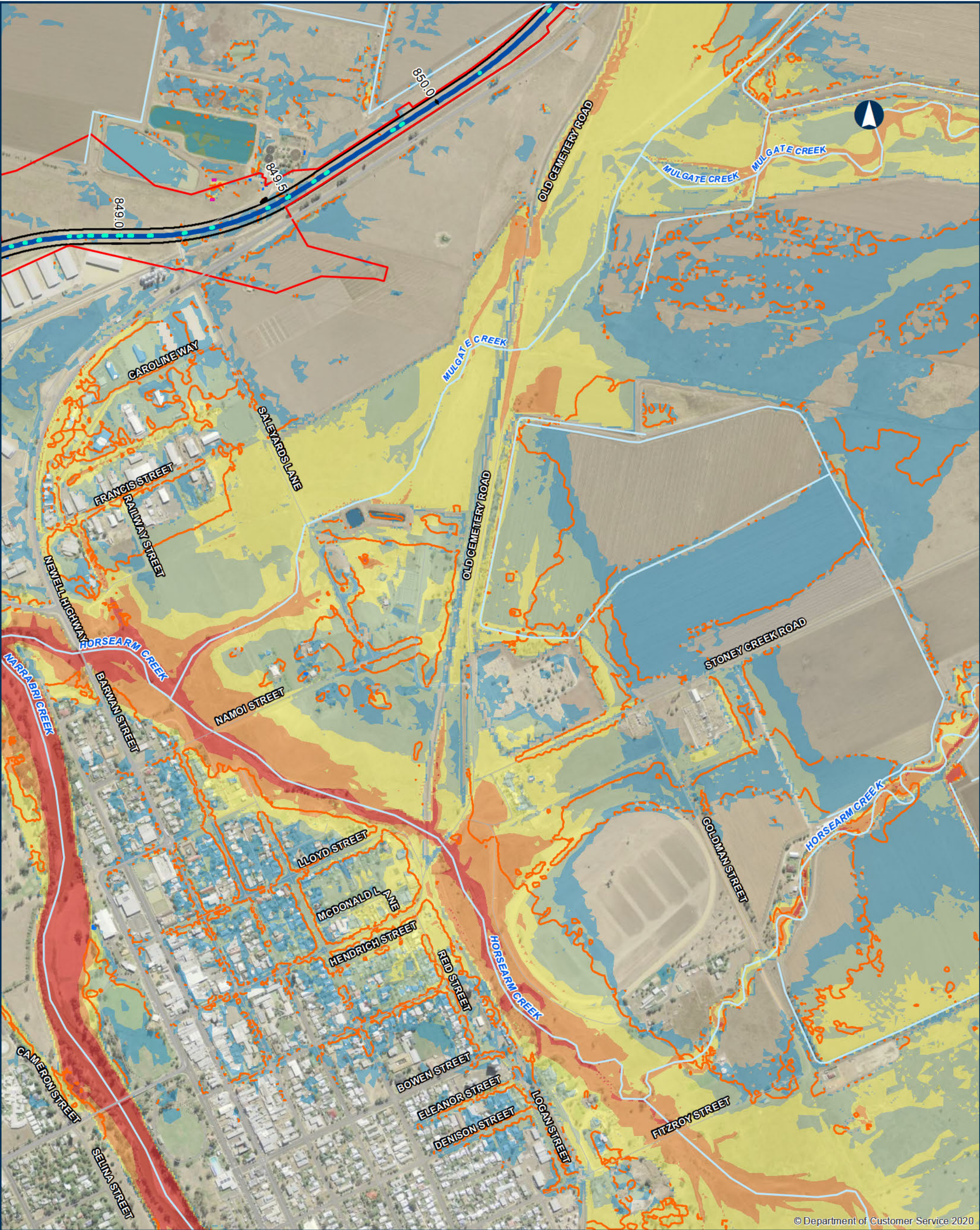
- |                    |  |                                   |
|--------------------|--|-----------------------------------|
| Bridge             | Afflux contour 200mm                                       | Existing Flood Depth 0.0m - 0.25m |
| Culvert            | Area of departure Urban and Infrastructure >100mm increase | 0.25m - 0.5m                      |
| Road QDL departure | Agricultural >200mm increase                               | 0.5m - 1.0m                       |
| Alignment          | Other non-urban >300mm increase                            | 1.0m - 2.0m                       |
| Primary road       |  | >2.0m                             |
| Sub arterial road  |  |                                   |
| Local road         |  |                                   |
| Watercourse        |  |                                   |
| The proposal       |  |                                   |
| Rail Corridor      |  |                                   |



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.6

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
- Afflux contour
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.7

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A3

Author: JacobsGHD

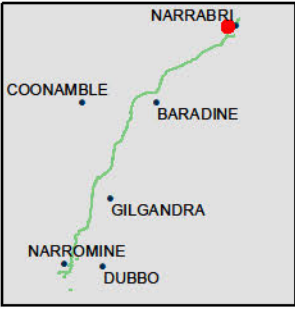
Scale: 1:10,000

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

Sub arterial road

Local road

Watercourse



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.8

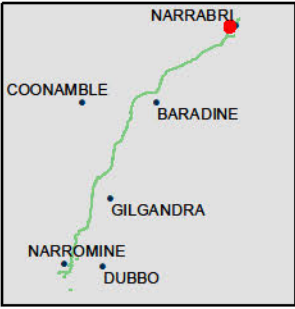
0 200 400 Metres

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

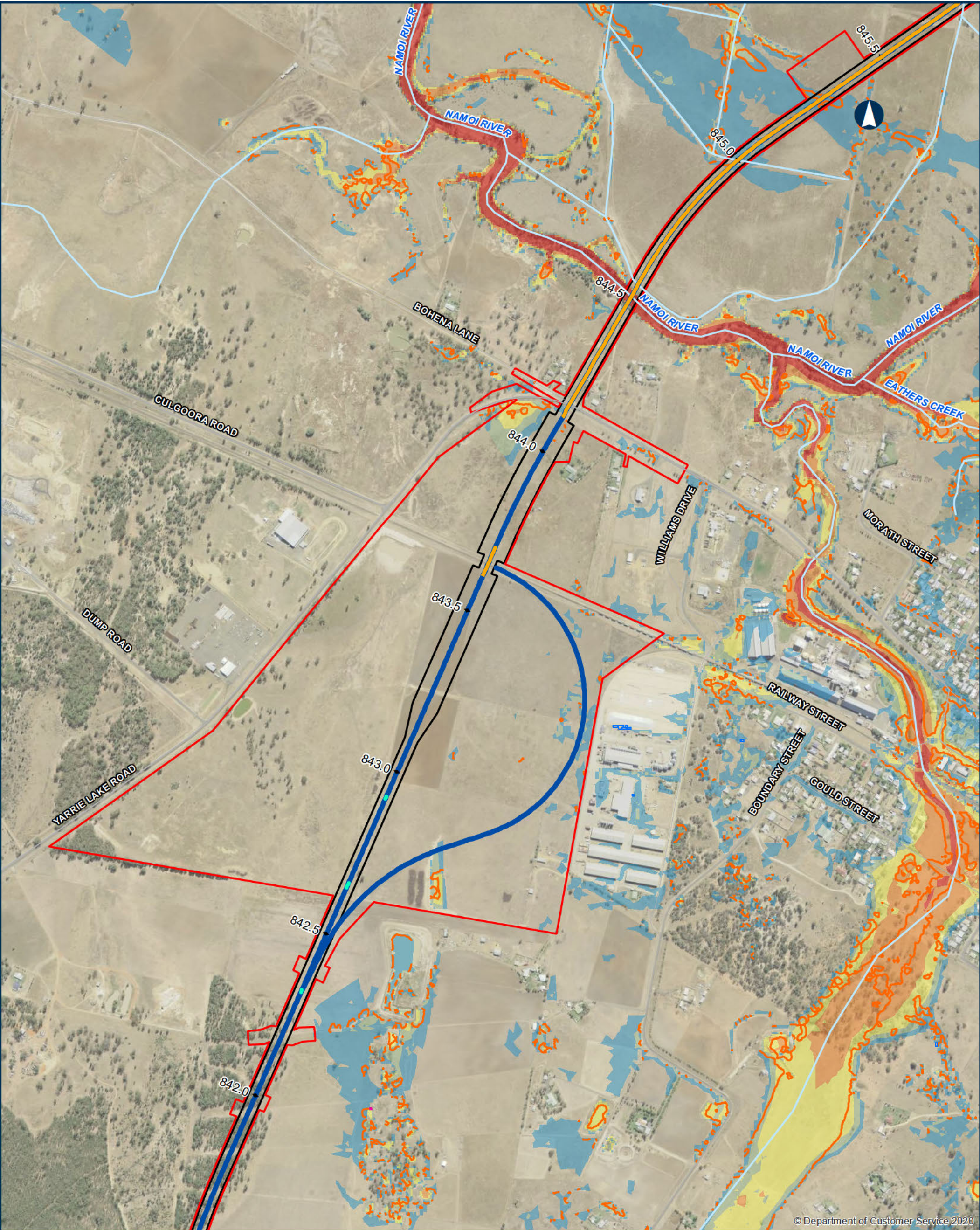
- |                   |                |                      |
|-------------------|----------------|----------------------|
| Culvert           | Afflux contour | Existing Flood Depth |
| Alignment         | 200mm          | 0.0m - 0.25m         |
| Sub arterial road |                | 0.25m - 0.5m         |
| Local road        |                | 0.5m - 1.0m          |
| Watercourse       |                |                      |
| The proposal      |                |                      |
| Rail Corridor     |                |                      |



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.9

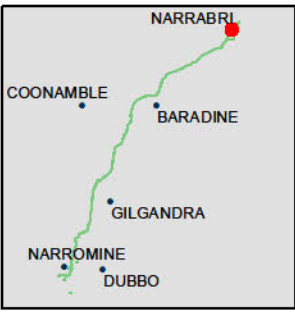
0 200 400 Metres

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            | Afflux contour                           | Existing Flood Depth |
| Culvert           | 200mm                                    | 0.0m - 0.25m         |
| Alignment         | Area of departure                        | 0.25m - 0.5m         |
| Sub arterial road | Urban and Infrastructure >100mm increase | 0.5m - 1.0m          |
| Local road        | Other non-urban >300mm increase          | 1.0m - 2.0m          |
| Watercourse       |  | >2.0m                |
| The proposal      |  |                      |
| Rail Corridor     |  |                      |



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## NARROMINE TO NARRABRI

QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.10

0 200 400 Metres

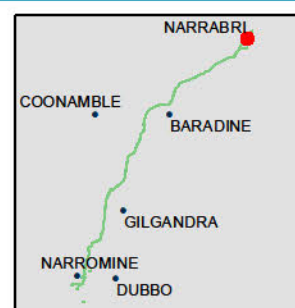
Coordinate System: GDA 1994 MGA Zone 55  
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Date: 10/08/2022 Paper: A3  
 Author: JacobsGHD Scale: 1:10,000  
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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

- Afflux contour
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Agricultural >200mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.11

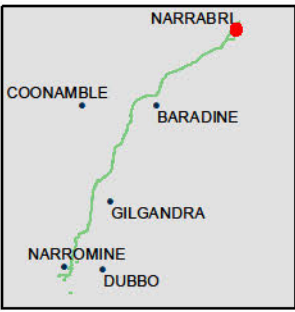
0 200 400 Metres

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

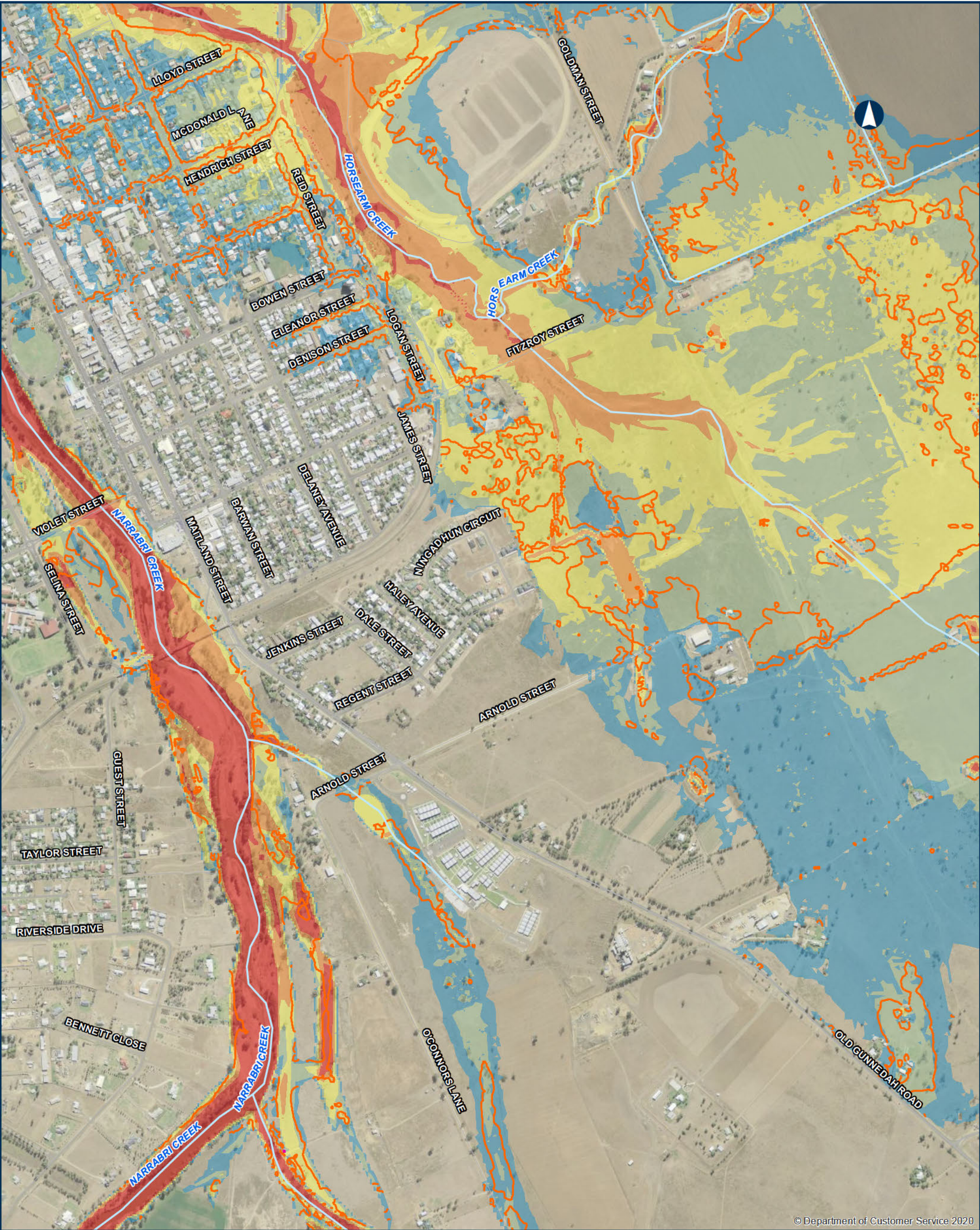
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Afflux contour**
- 200mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Agricultural >200mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.12

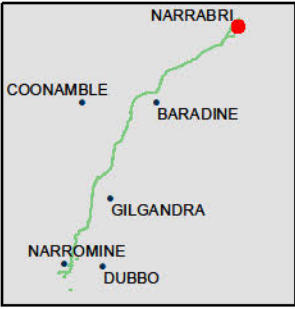
0 200 400 Metres

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

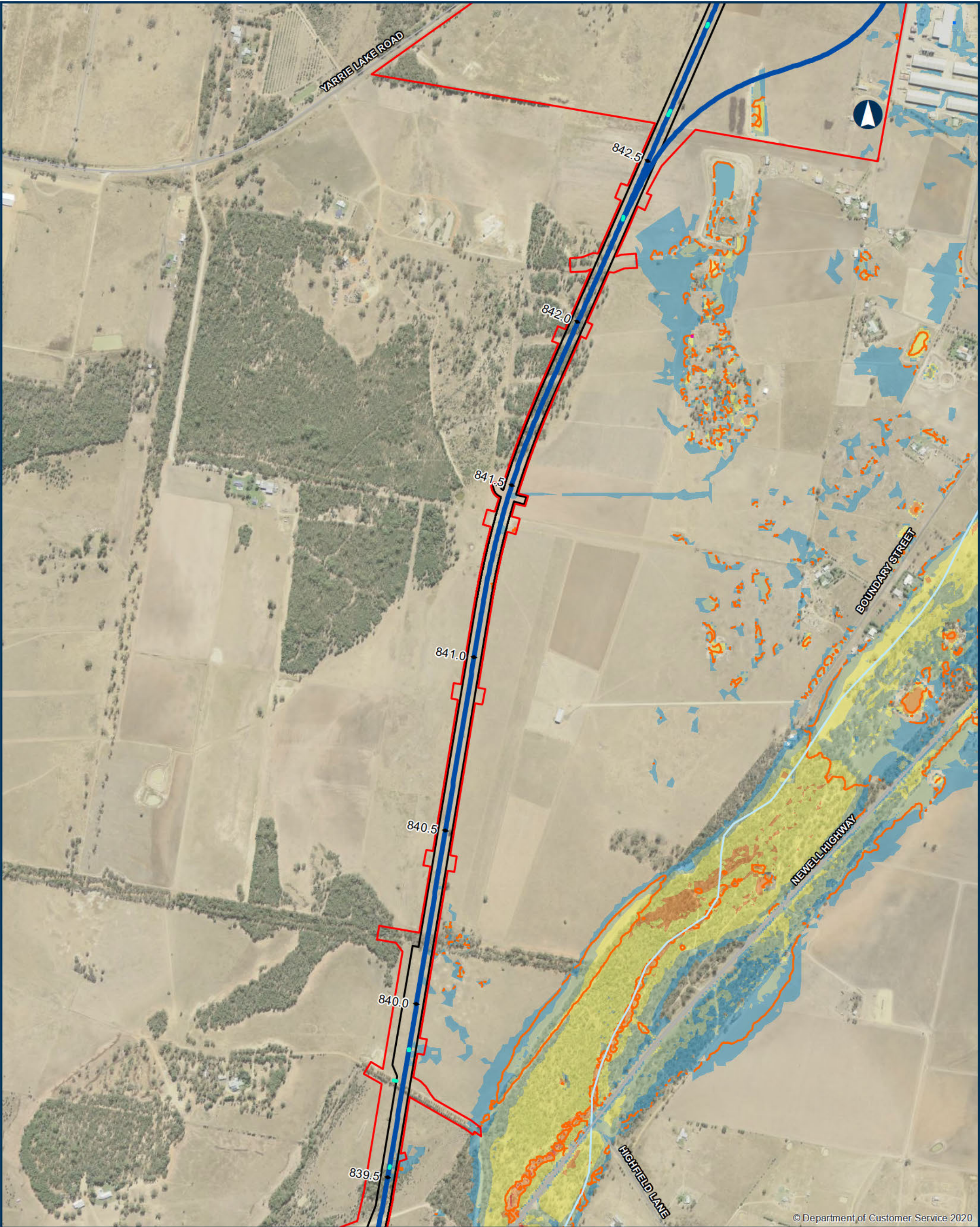
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
- Afflux contour**
- 200mm
- Area of departure**
- Urban and infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI**

QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.13

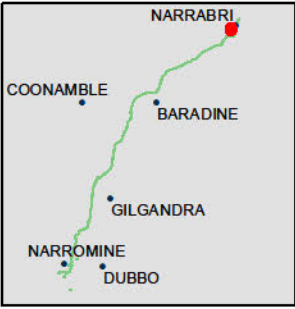
0 200 400 Metres

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           | Afflux contour                           | Existing Flood Depth |
| Alignment         | 200mm                                    | 0.0m - 0.25m         |
| Primary road      | Area of departure                        | 0.25m - 0.5m         |
| Sub arterial road | Urban and infrastructure >100mm increase | 0.5m - 1.0m          |
| Local road        | Other non-urban >300mm increase          | 1.0m - 2.0m          |
| Watercourse       |  | >2.0m                |
| The proposal      |  |                      |
| Rail Corridor     |  |                      |



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.14

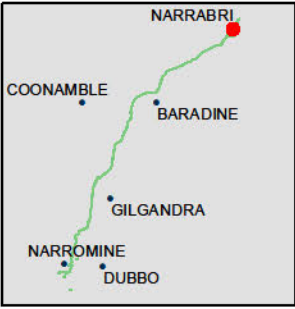
0 200 400 Metres

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           | Afflux contour                           | Existing Flood Depth |
| Alignment         | 200mm                                    | 0.0m - 0.25m         |
| Primary road      | Area of departure                        | 0.25m - 0.5m         |
| Sub arterial road | Urban and Infrastructure >100mm increase | 0.5m - 1.0m          |
| Local road        | Other non-urban >300mm increase          | 1.0m - 2.0m          |
| Watercourse       |  | >2.0m                |
| The proposal      |  |                      |
| Rail Corridor     |  |                      |



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.15

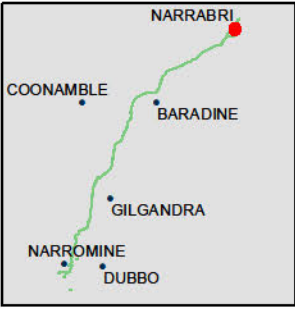
0 200 400 Metres

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
- Afflux contour**
- 200mm
- Area of departure**
- Urban and Infrastructure >100mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - >2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 2% AEP - Narrabri Local

Appendix B - Figure 1.3.16

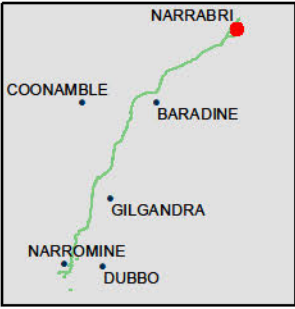
0 200 400 Metres

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
- Afflux contour**
- 200mm
- Area of departure**
- Other non-urban >300mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.4.1**

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
- Arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.4.2**

0 200 400 Metres

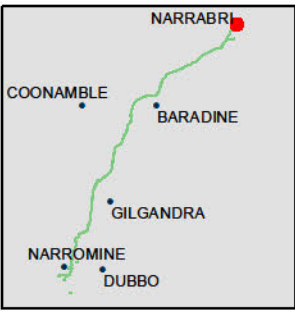
Coordinate System: GDA 1994 MGA Zone 55

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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
- Road QDL departure
- Alignment
- Primary road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

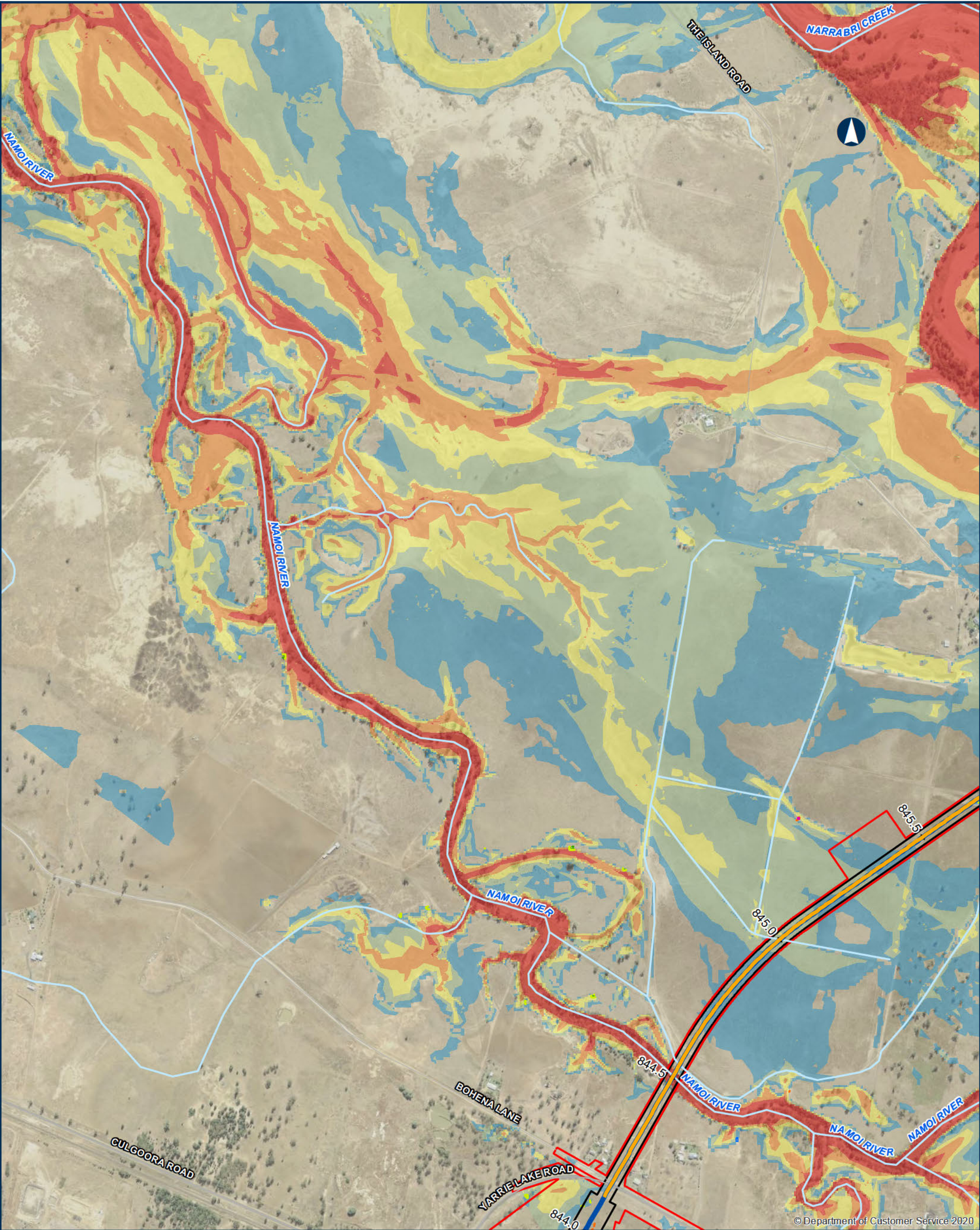
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.4.3

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
- Afflux contour
- 300mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

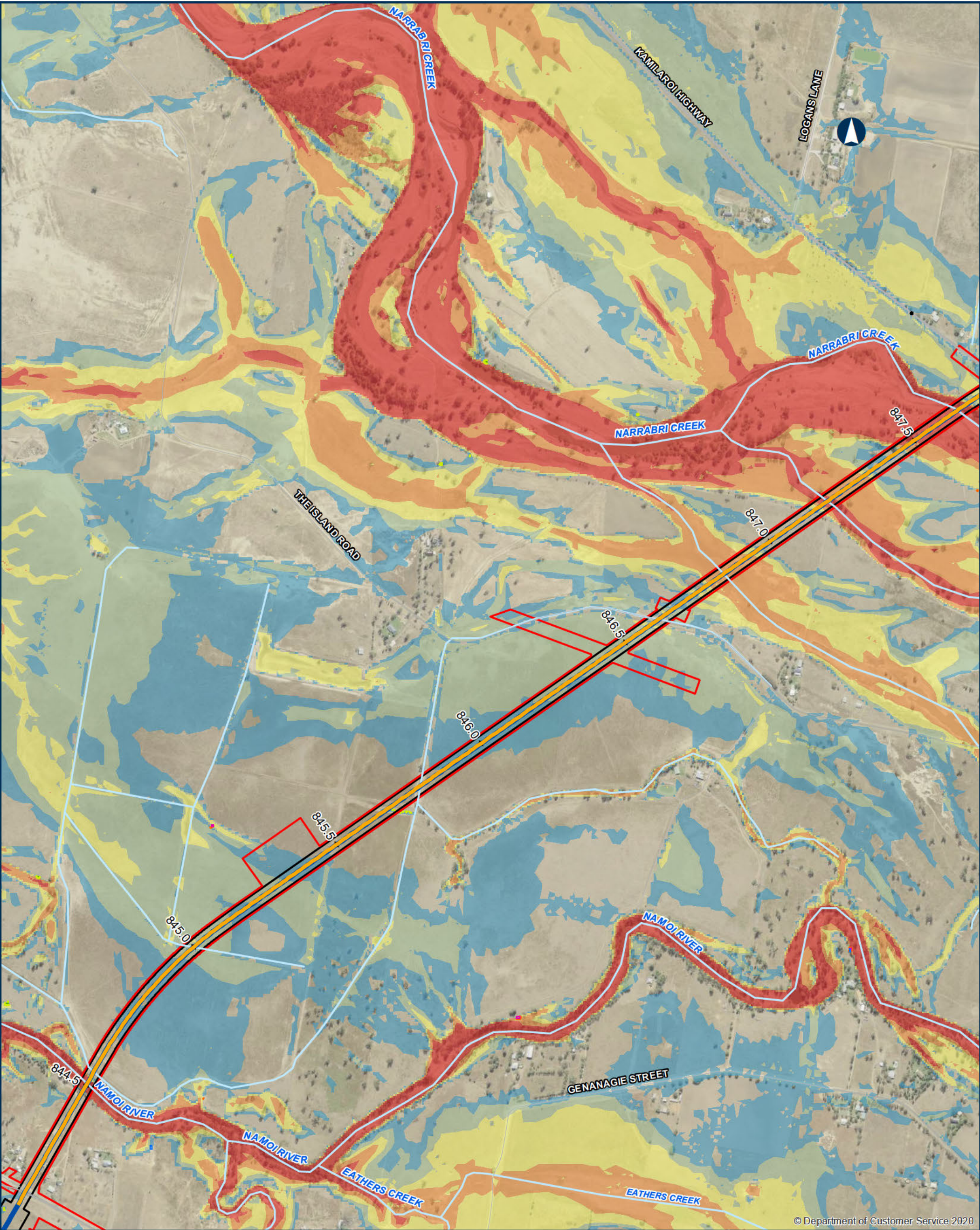
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.4.4

0 200 400 Metres

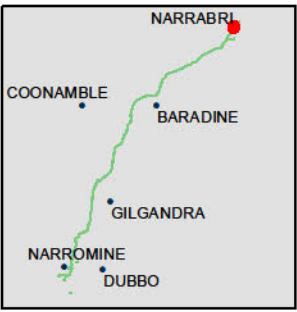
Coordinate System: GDA 1994 MGA Zone 55

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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
- Road QDL departure
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The Proposal
- Rail Corridor
- Afflux contour
- 300mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

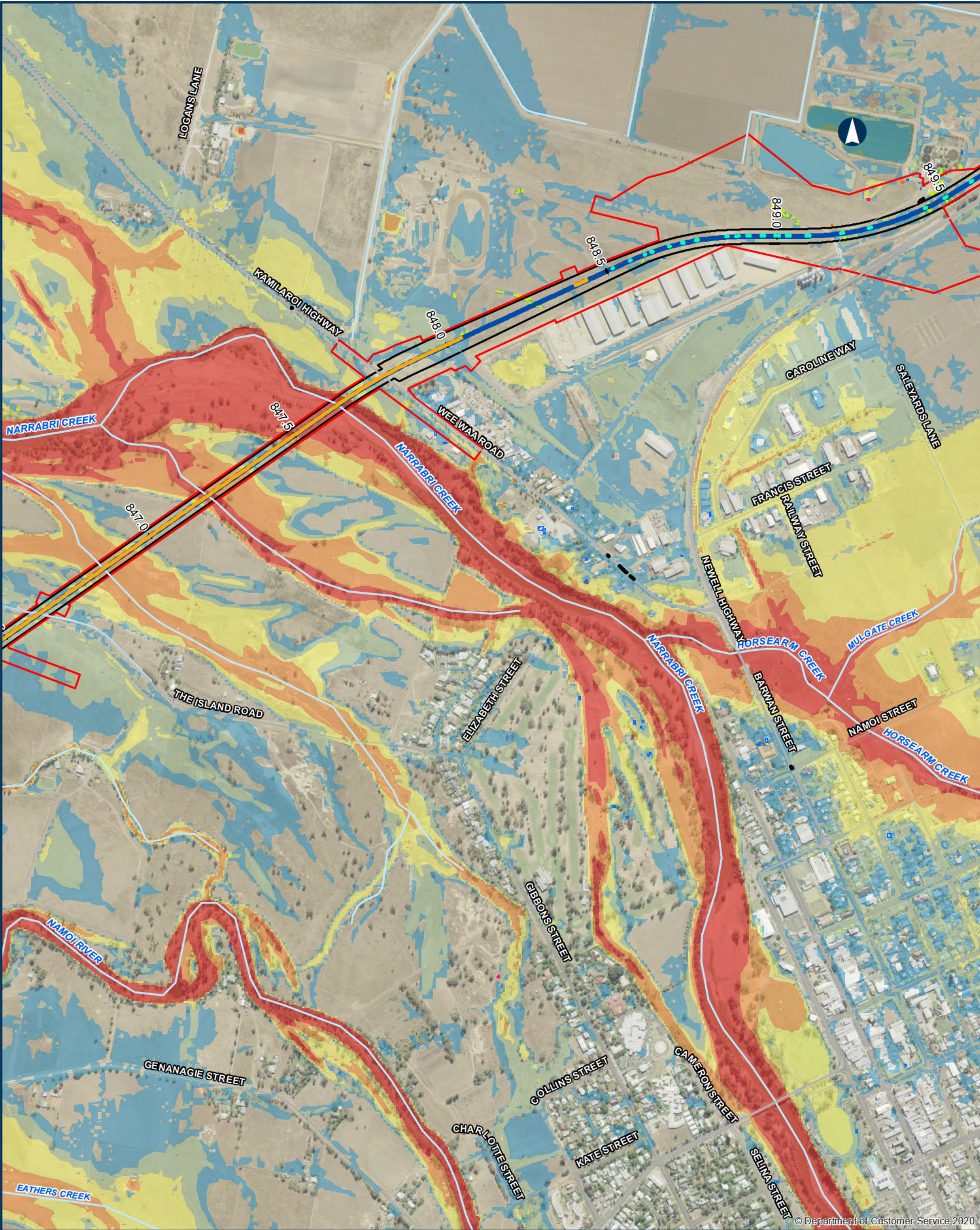
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.4.5**

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

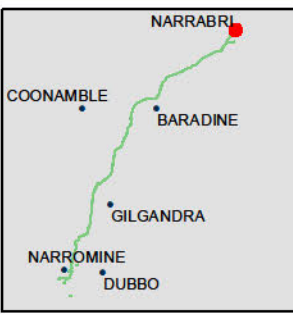
ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

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

Bridge	The proposal
Culvert	Rail Corridor
Road QDL departure	Afflux contour
Alignment	-300mm
Primary road	-100mm
Sub arterial road	200mm
Local road	Area of departure
Watercourse	Urban and Infrastructure >100mm increase
	Other non-urban >300mm increase

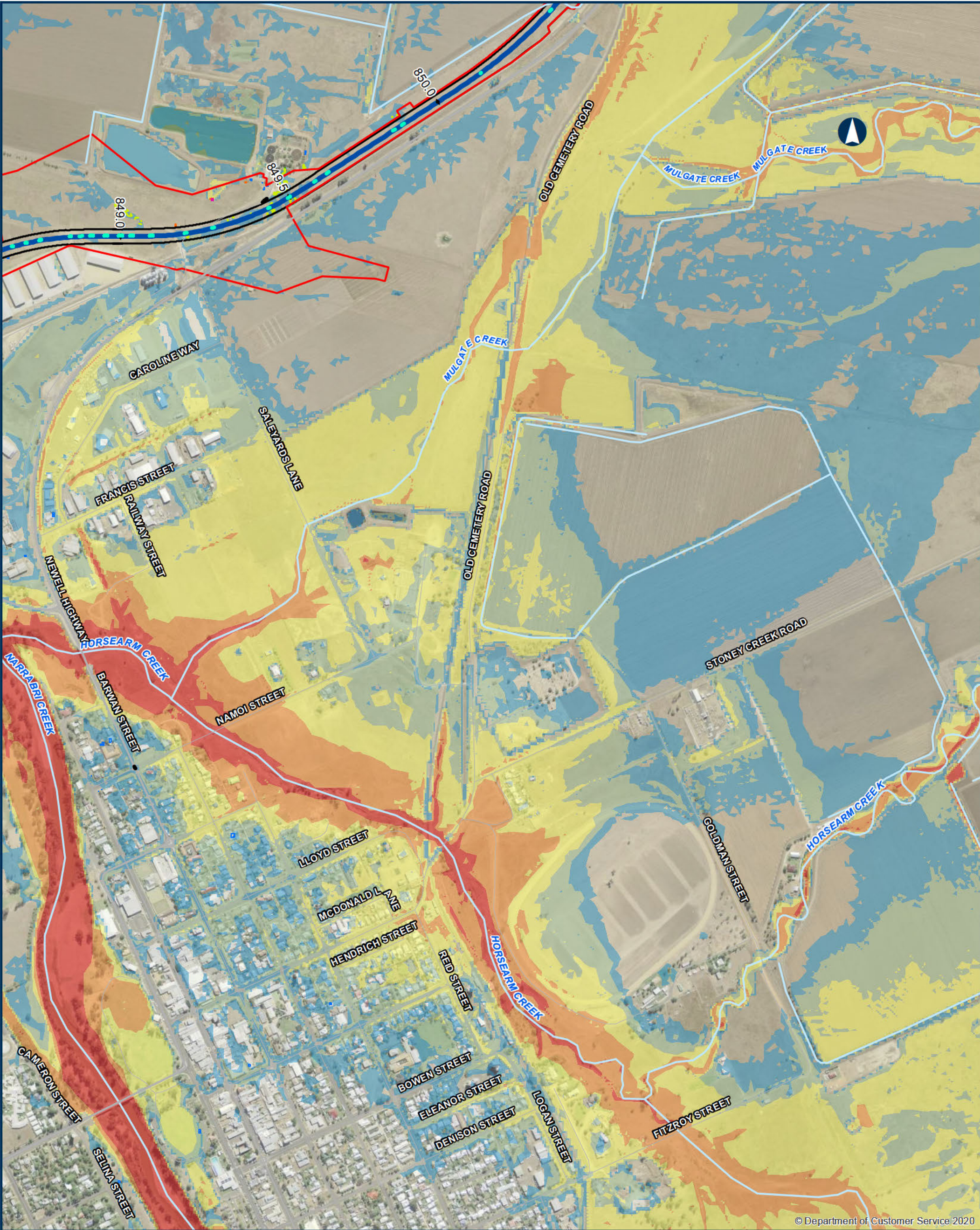
Existing Flood Depth

0.0m - 0.25m
0.25m - 0.5m
0.5m - 1.0m
1.0m - 2.0m
> 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.4.6**

0 200 400 Metres

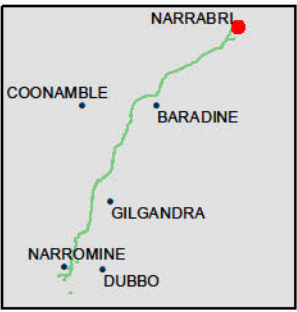
Coordinate System: GDA 1994 MGA Zone 55

ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

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

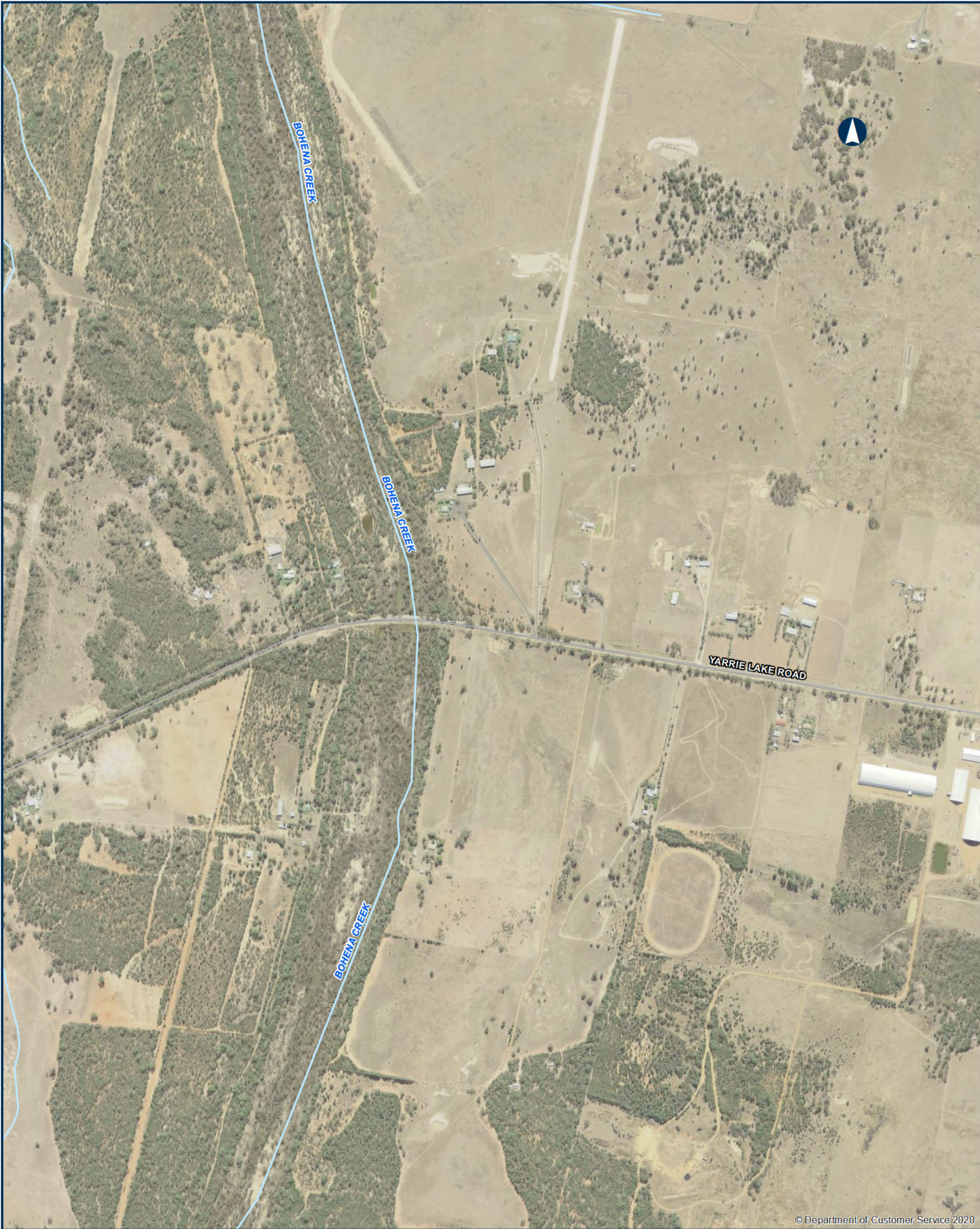
- Culvert
- Road QDL departure
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 300mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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NARROMINE TO NARRABRI

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

Appendix B - Figure 1.4.7

0200400Metres

Sub arterial road  
Local road  
Watercourse

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022  
Author: JacobsGHD  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Paper: A3  
Scale: 1:10,000

JacobsGHD

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N:\AU\Newcastle\Projects\22\19593\GIS\GIS\_2500\_N2N\_v2\Maps\Deliverables\_SPIREIS\Flooding\_Hydrology\Appendices\2500\_EISFWPAPP111\_QDL\_Local\_Afflux\_1pcBlockage\_revA.mxd





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NARROMINE TO NARRABRI

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

Appendix B - Figure 1.4.8

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022Paper: A3

Author: JacobsGHDScale: 1:10,000

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

Culvert

Alignment

Sub arterial road

Local road

Watercourse

The proposal

Rail Corridor

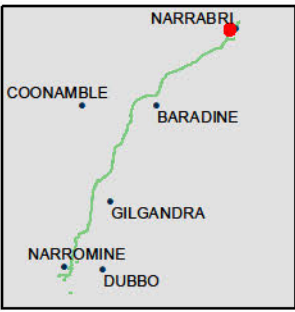
Existing Flood Depth

0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.4.9

0 200 400 Metres

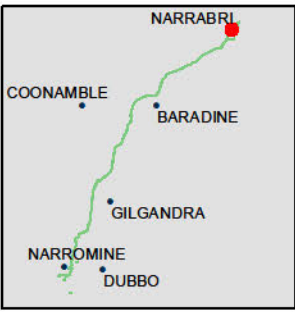
Coordinate System: GDA 1994 MGA Zone 55

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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
- Afflux contour
- 300mm
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

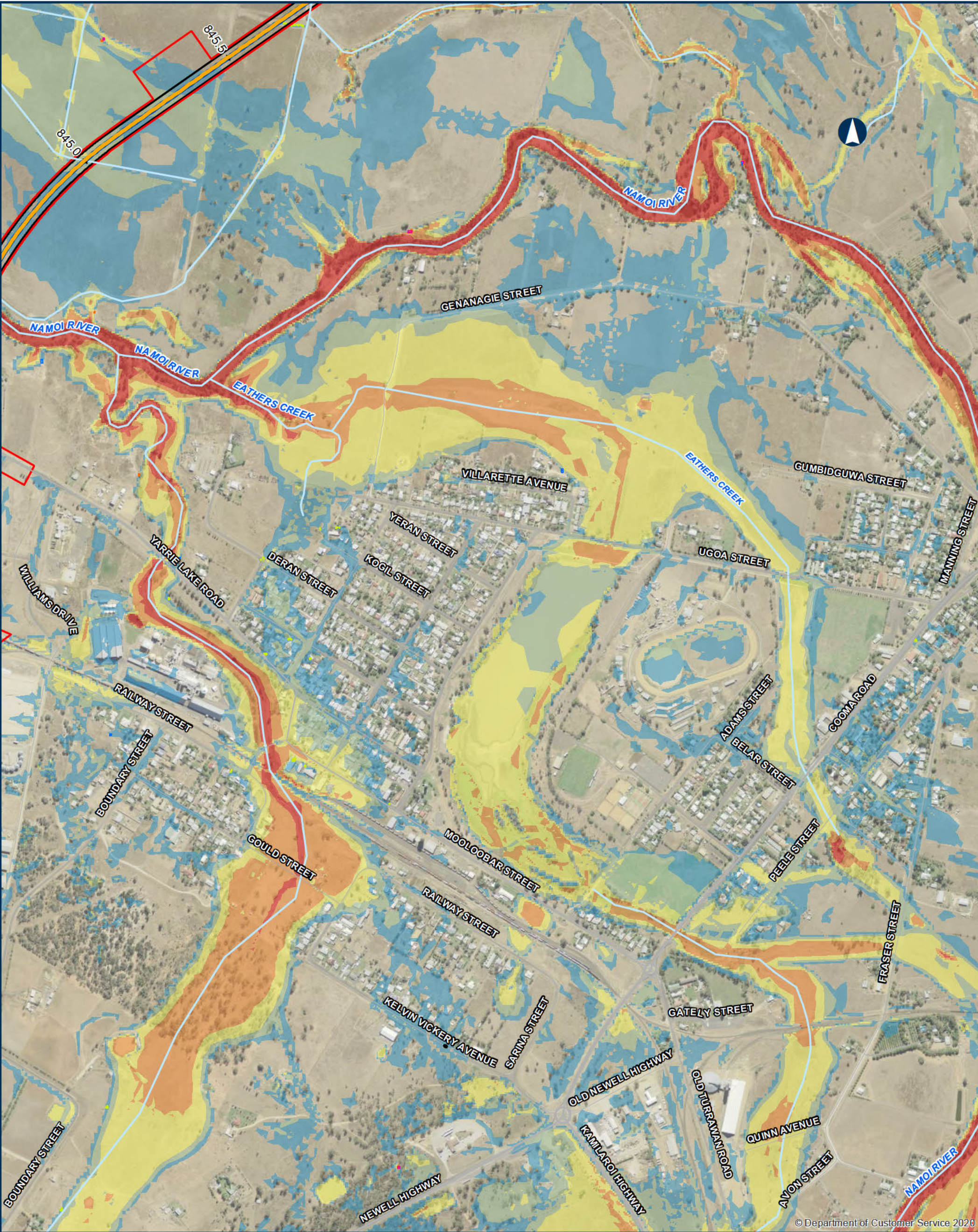
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

**Appendix B - Figure 1.4.10**

0 200 400 Metres

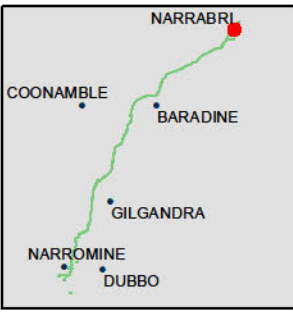
Coordinate System: GDA 1994 MGA Zone 55

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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
- Road QDL departure
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase

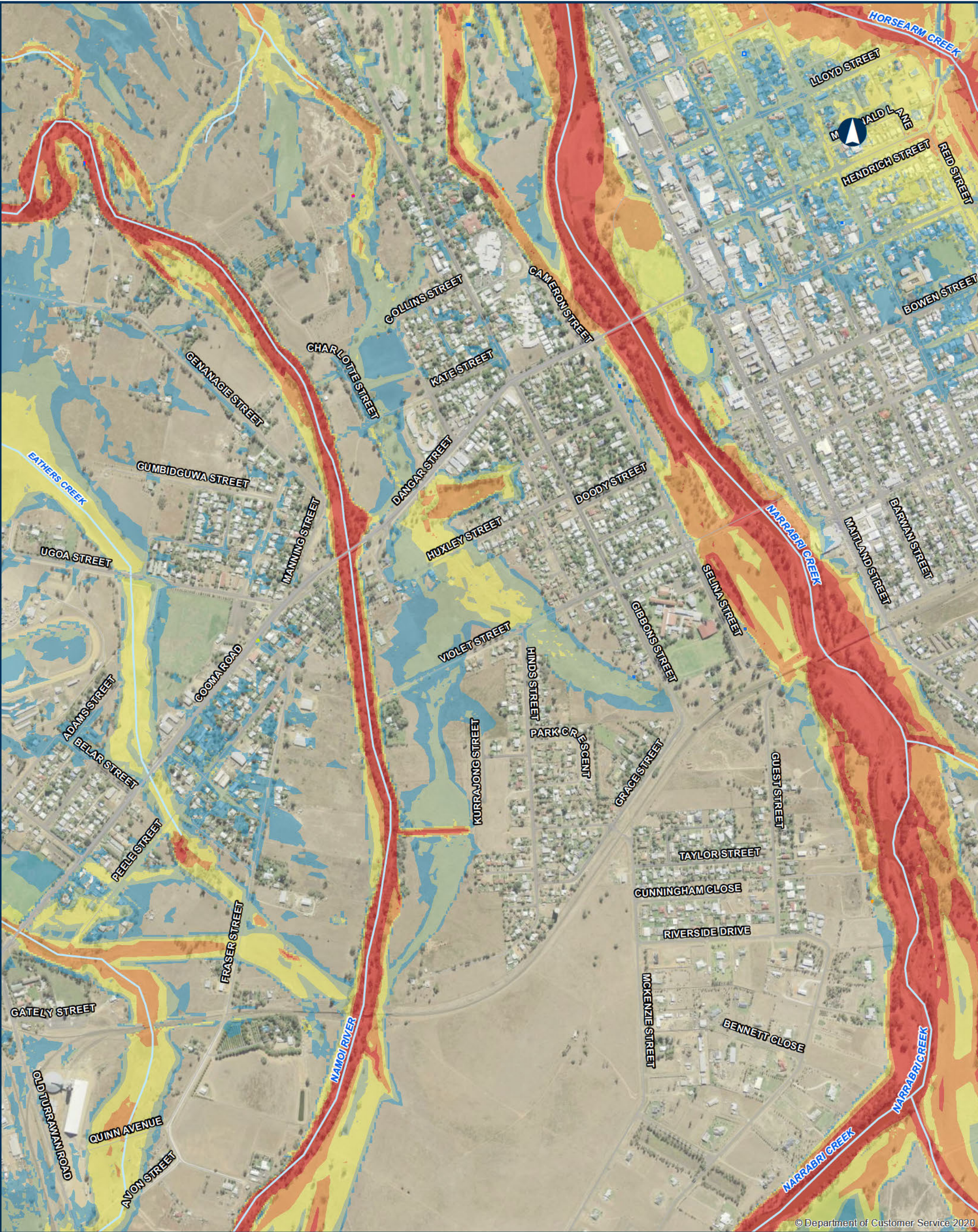
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.4.11

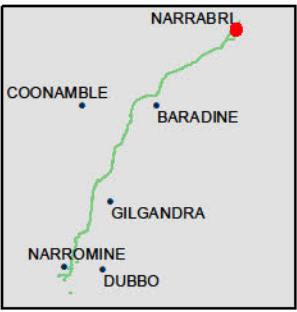
0 200 400 Metres

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

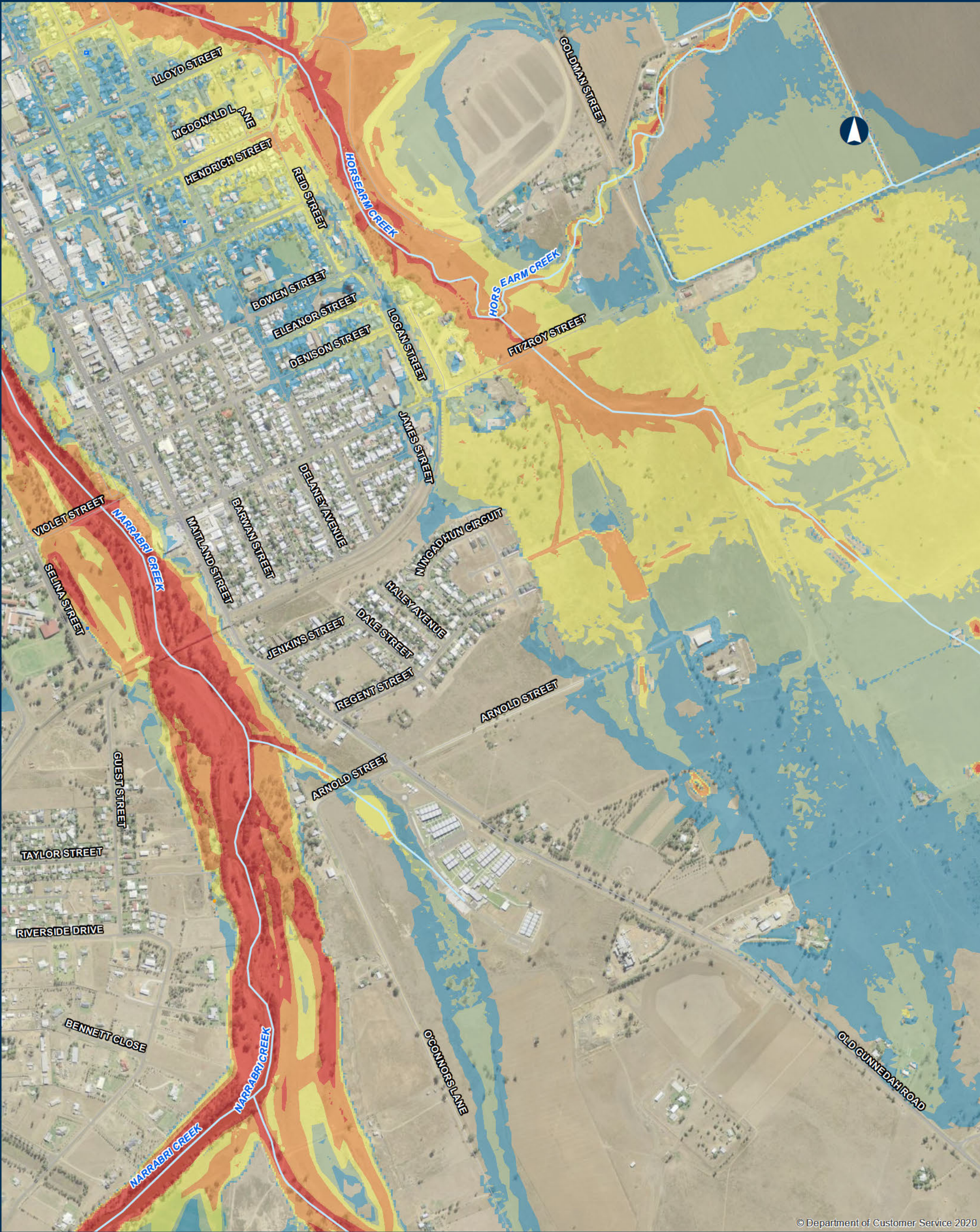
- Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - Afflux contour
  - 100mm
  - 200mm
  - Area of departure
  - Urban and Infrastructure >100mm increase
  - Agricultural >200mm increase
  - Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.4.12

0 200 400 Metres

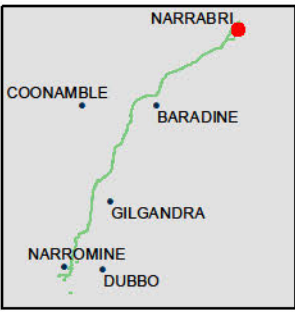
Coordinate System: GDA 1994 MGA Zone 55

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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
- Afflux contour
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Agricultural >200mm increase

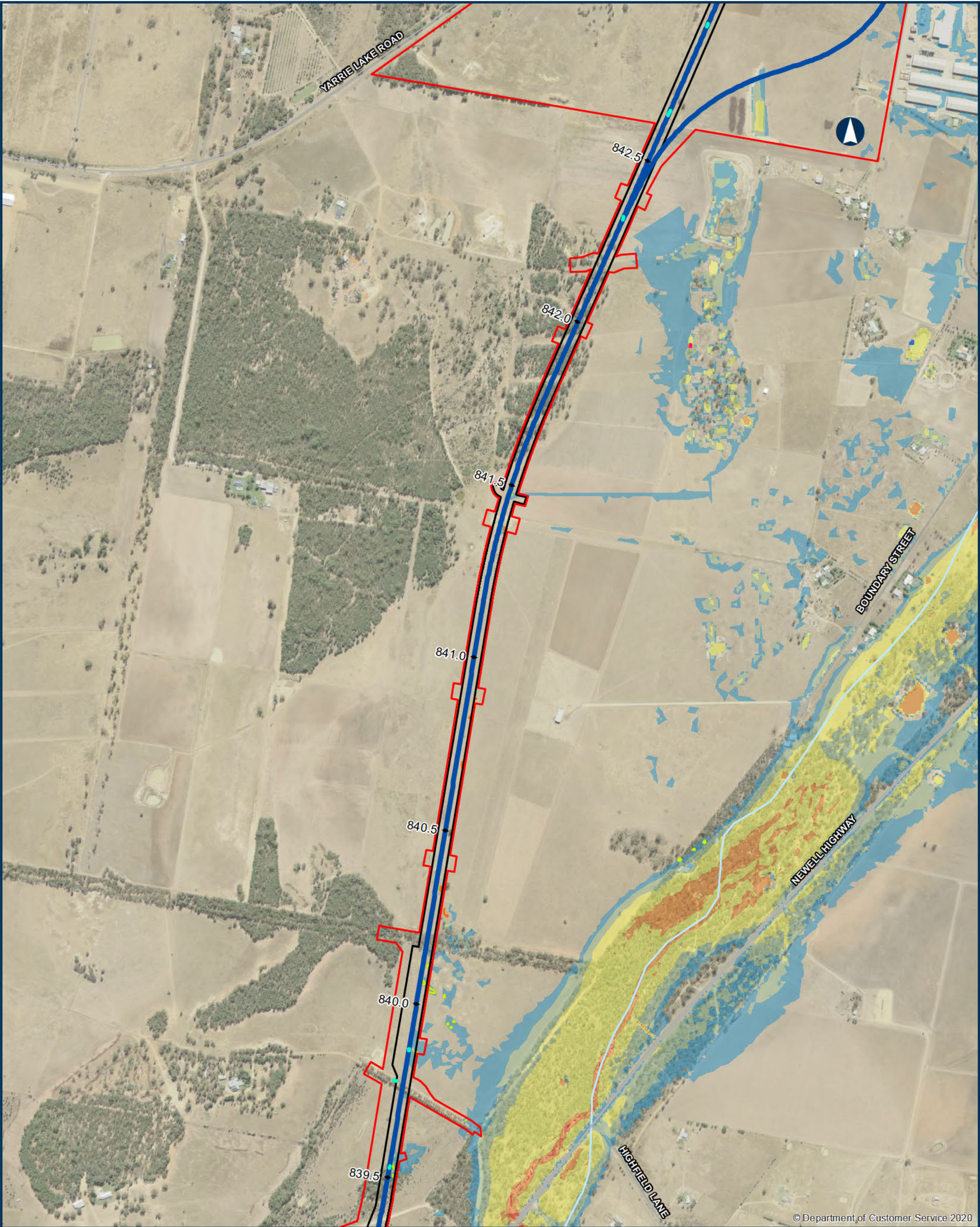
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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**NARROMINE TO NARRABRI** QDL departures - Afflux - 1% AEP with blockage - Narrabri Local Appendix B - Figure 1.4.13

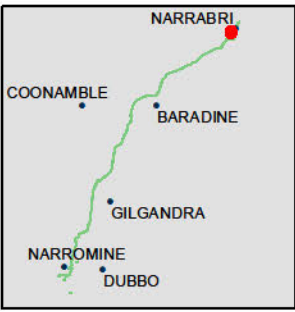
0 200 400 Metres

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

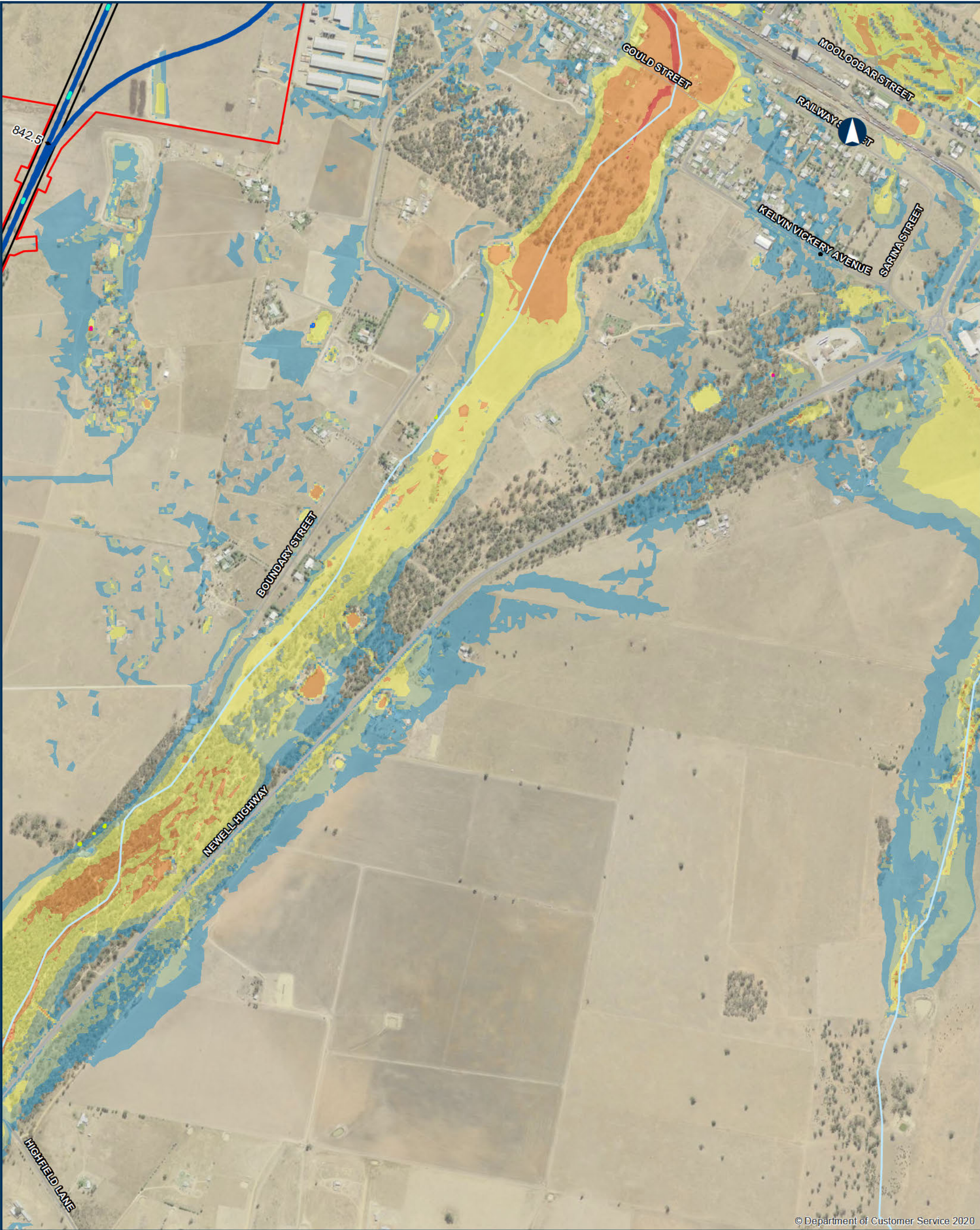
- Culvert
- Alignment
- Primary road
- Sub arterial road
- Local road
- Watercourse
- The proposal
- Rail Corridor
- Afflux contour
- 100mm
- 200mm
- Area of departure
- Urban and Infrastructure >100mm increase
- Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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NARROMINE TO NARRABRI

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

Appendix B - Figure 1.4.14

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

Road QDL departure

Alignment

Primary road

Sub arterial road

Local road

Watercourse
- The proposal

Rail Corridor

Afflux contour

-100mm

200mm

Area of departure

Urban and Infrastructure >100mm increase

Other non-urban >300mm increase
- Existing Flood Depth

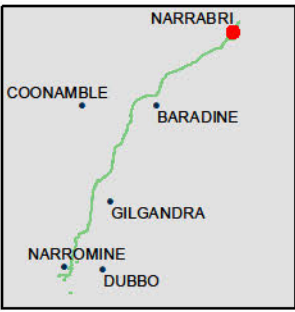
0.0m - 0.25m

0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

> 2.0m



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NARROMINE TO NARRABRI

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

Appendix B - Figure 1.4.15

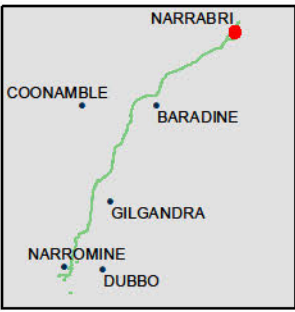
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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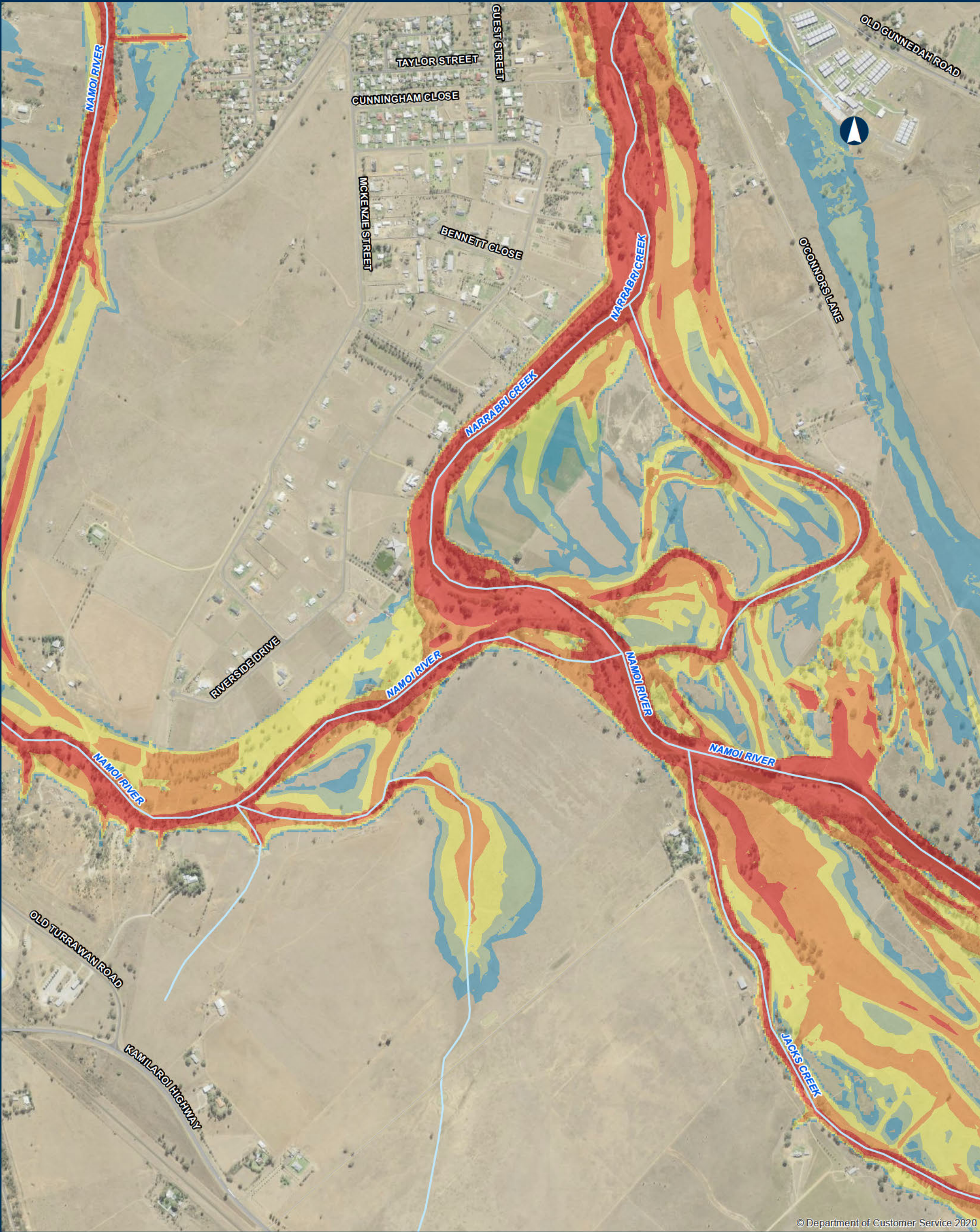
Date: 10/08/2022 Paper: A3  
Author: JacobsGHD Scale: 1:10,000  
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

- Road QDL departure
  - Primary road
  - Sub arterial road
  - Local road
  - Watercourse
  - Afflux contour
  - 100mm
  - 200mm
  - Area of departure
  - Other non-urban >300mm increase
- Existing Flood Depth
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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**NARROMINE TO NARRABRI**

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

Appendix B - Figure 1.4.16

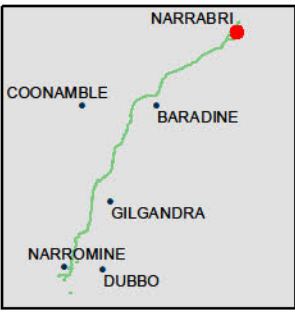
0 200 400 Metres

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
  - Afflux contour
  - 200mm
  - Area of departure
  - Agricultural >200mm increase
- Existing Flood Depth**
- 0.0m - 0.25m
  - 0.25m - 0.5m
  - 0.5m - 1.0m
  - 1.0m - 2.0m
  - > 2.0m



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