

TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix N Assessment of local and regional flooding at Narrabri

(Part 13 of 25)

NARROMINE TO NARRABRI PROJECT



TECHNICAL REPORT 03

Updated flooding and hydrology assessment

Appendix A Existing and operational flooding

Appendix A12 Narrabri local (operational flooding 1%)

NARROMINE TO NARRABRI PROJECT





NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.1

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Afflux

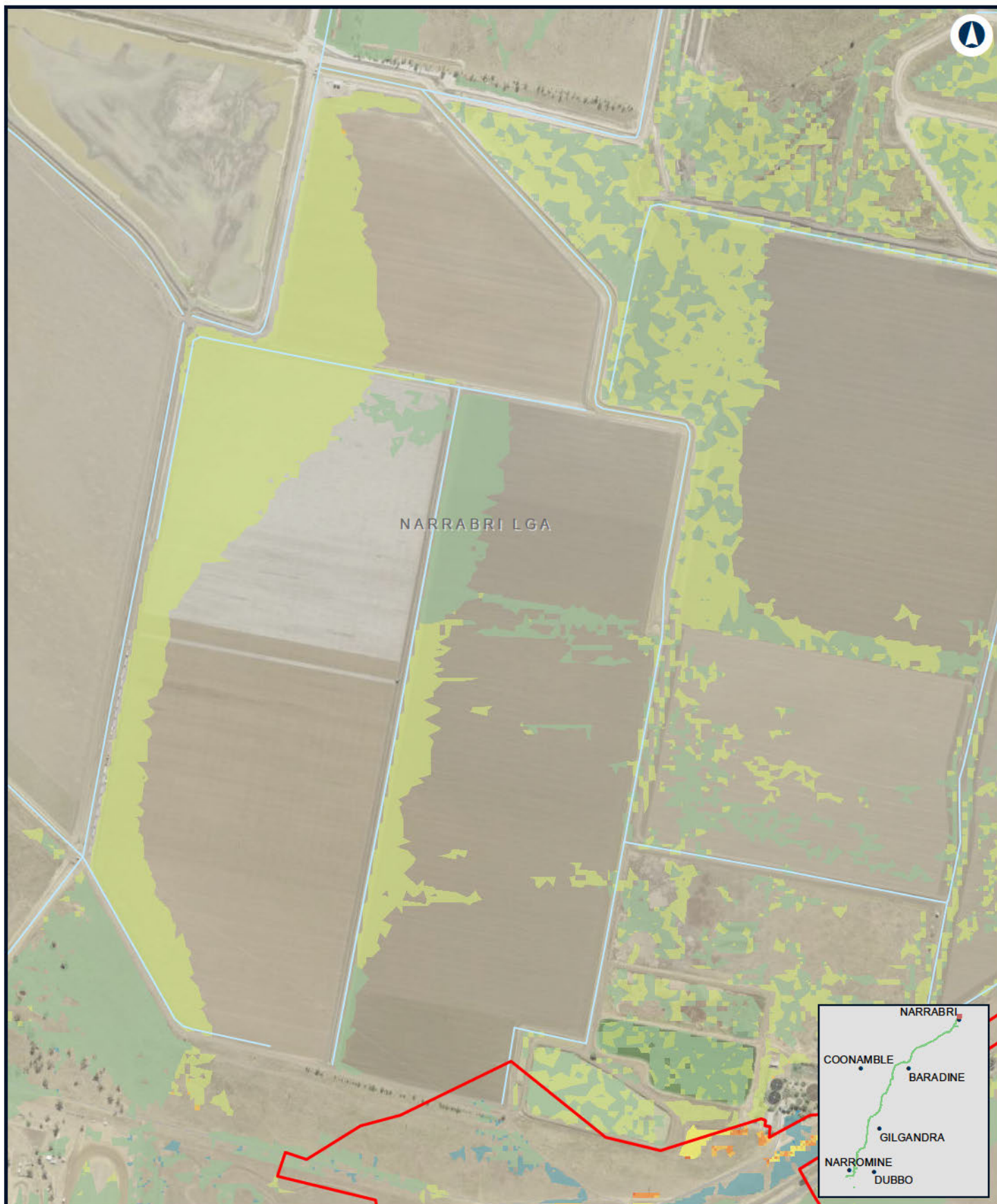
> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1 % AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.2

0 0.1 0.2
Km

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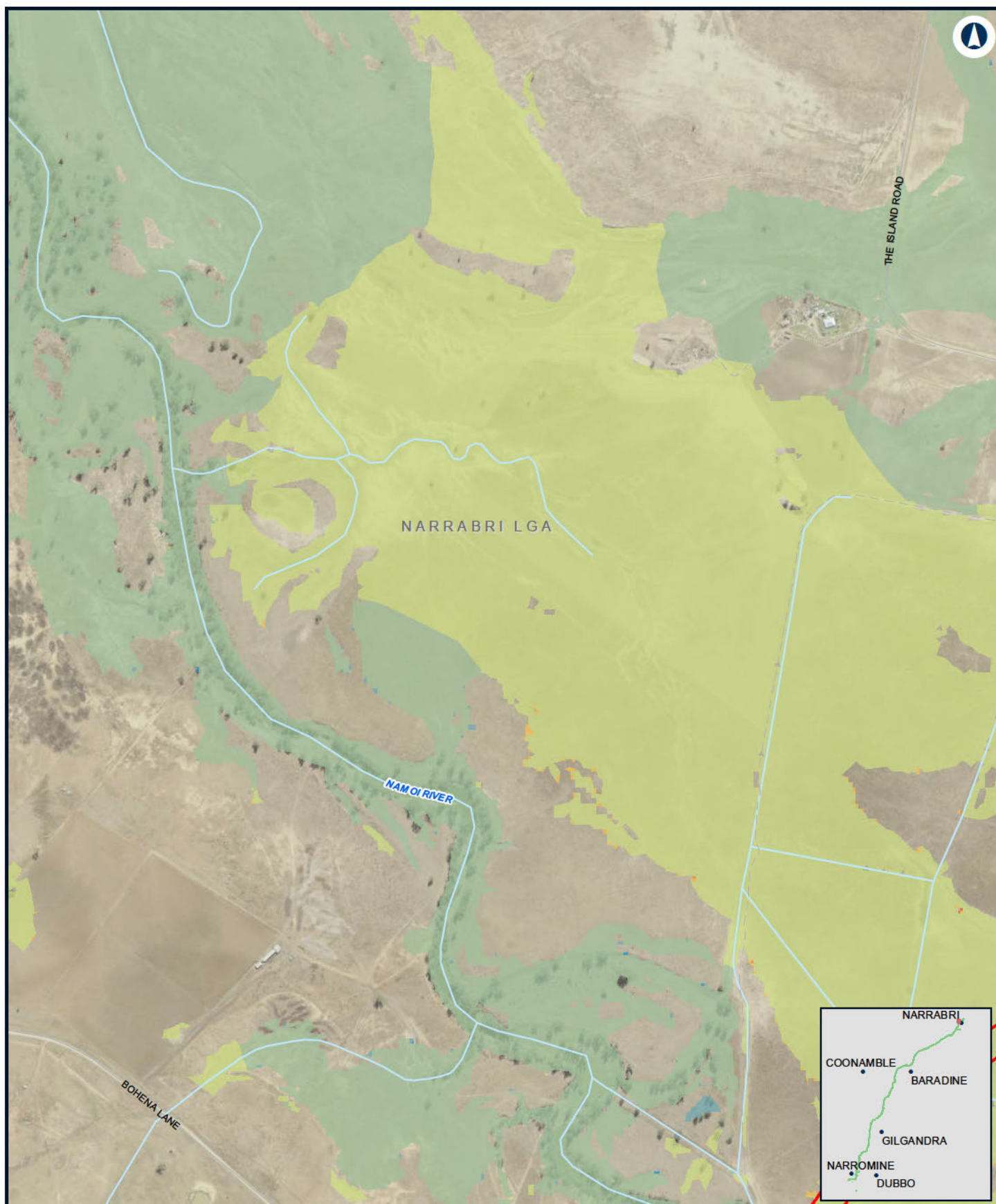
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 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.3

0 0.1 0.2
Km

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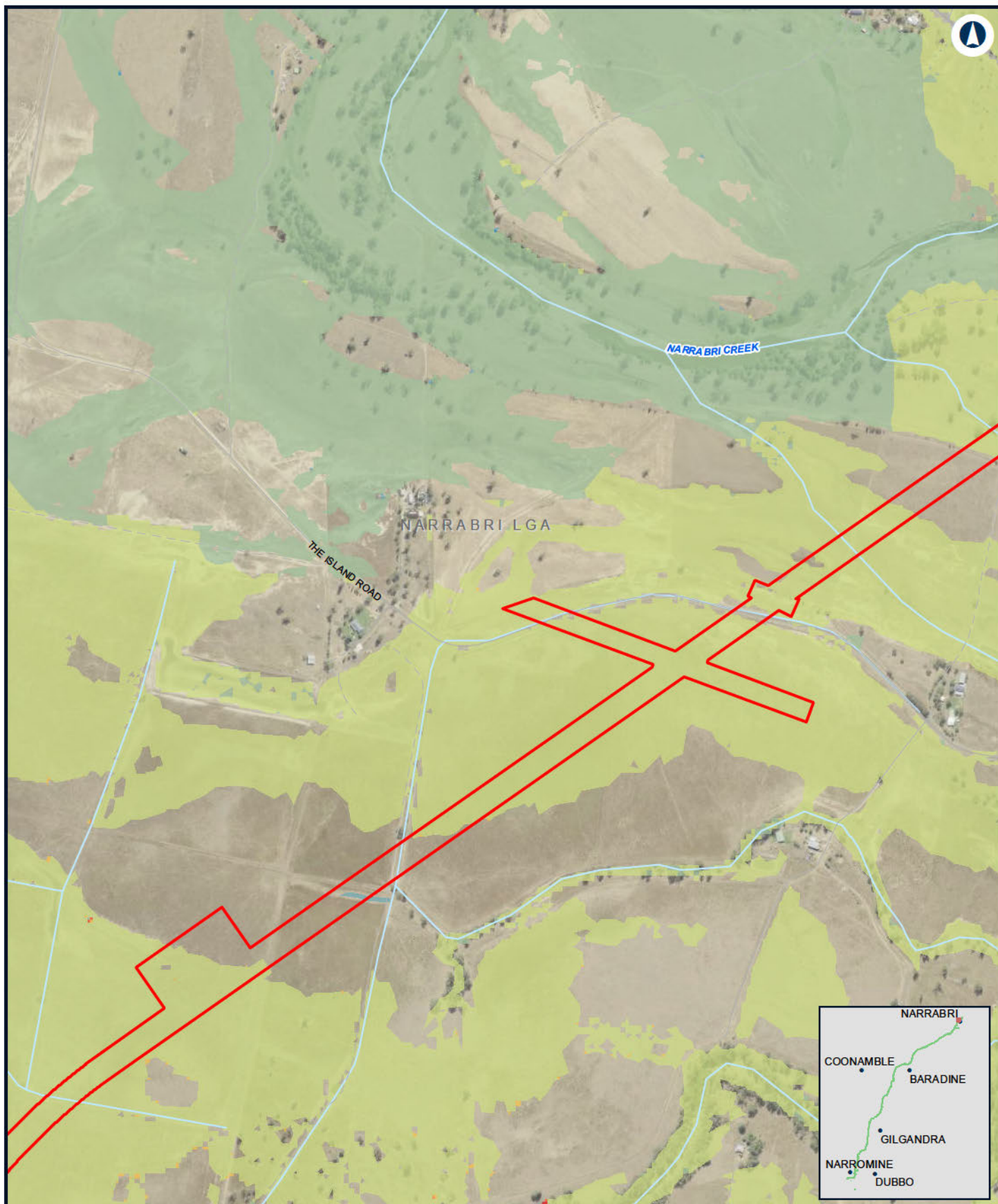
Afflux

> 0.2m decrease
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 0 m - 0.01 m decrease
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 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.4

0 0.1 0.2
Km

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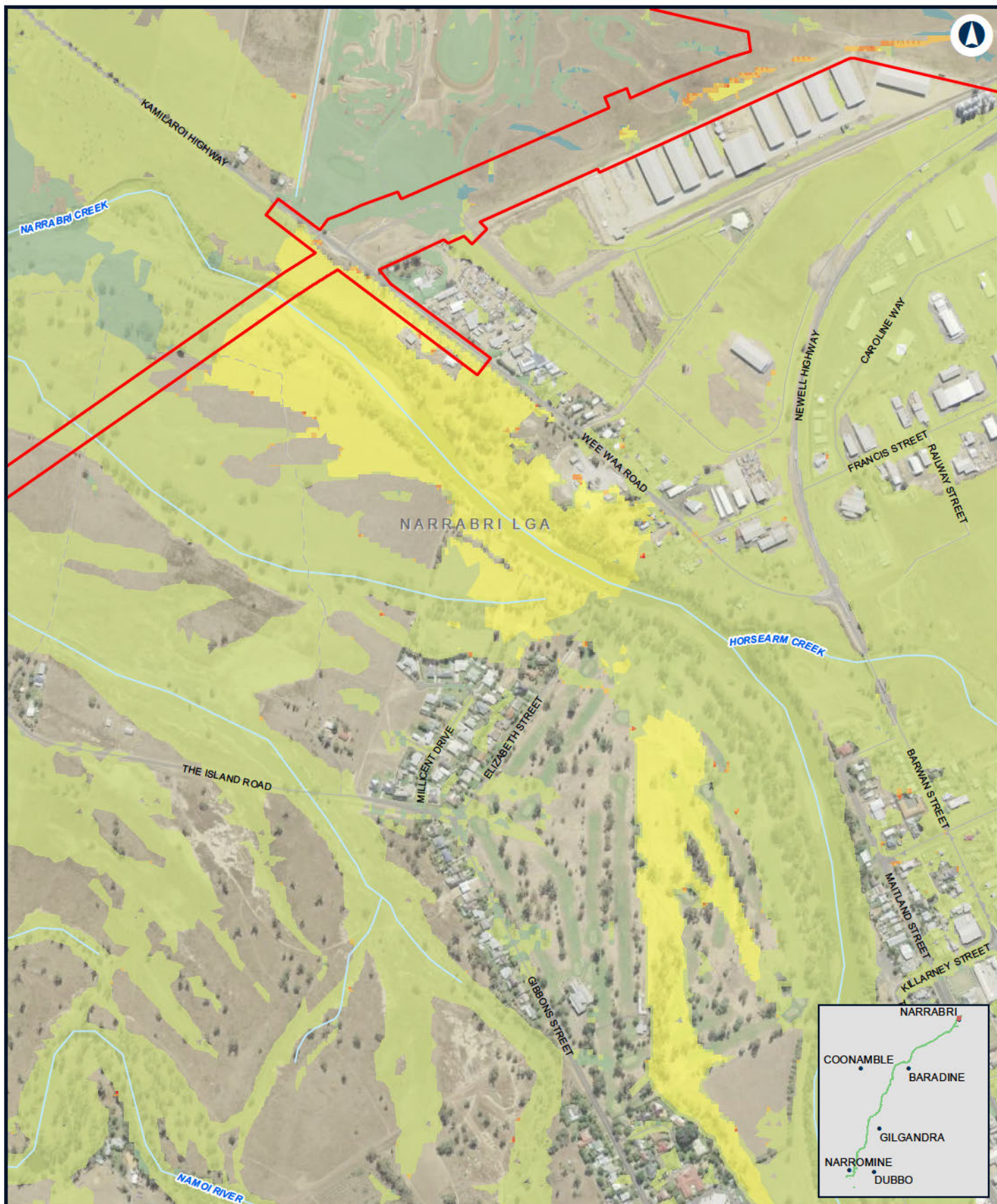
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 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.5

0 0.1 0.2
Km

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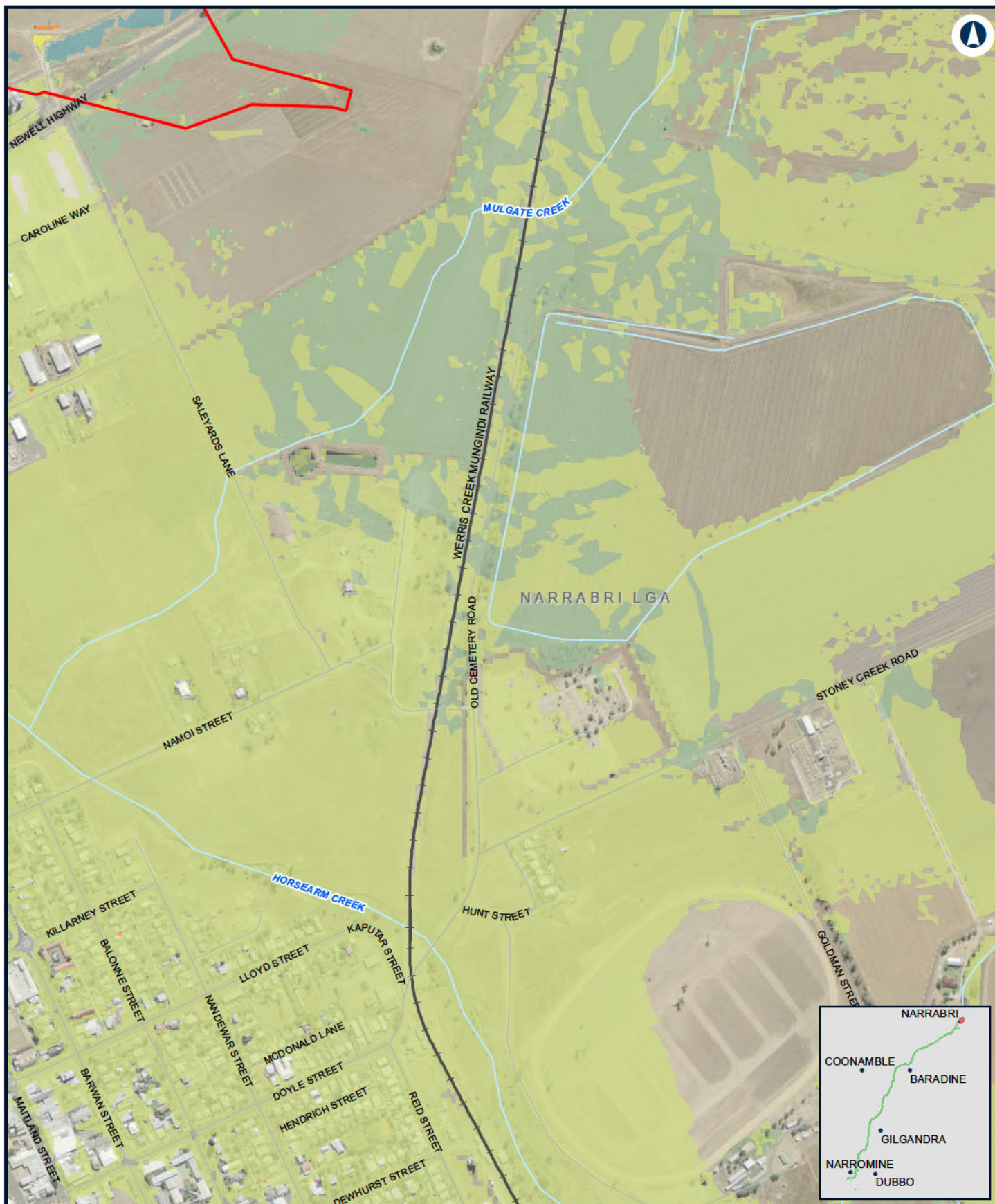
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 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.6

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.7

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.8

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

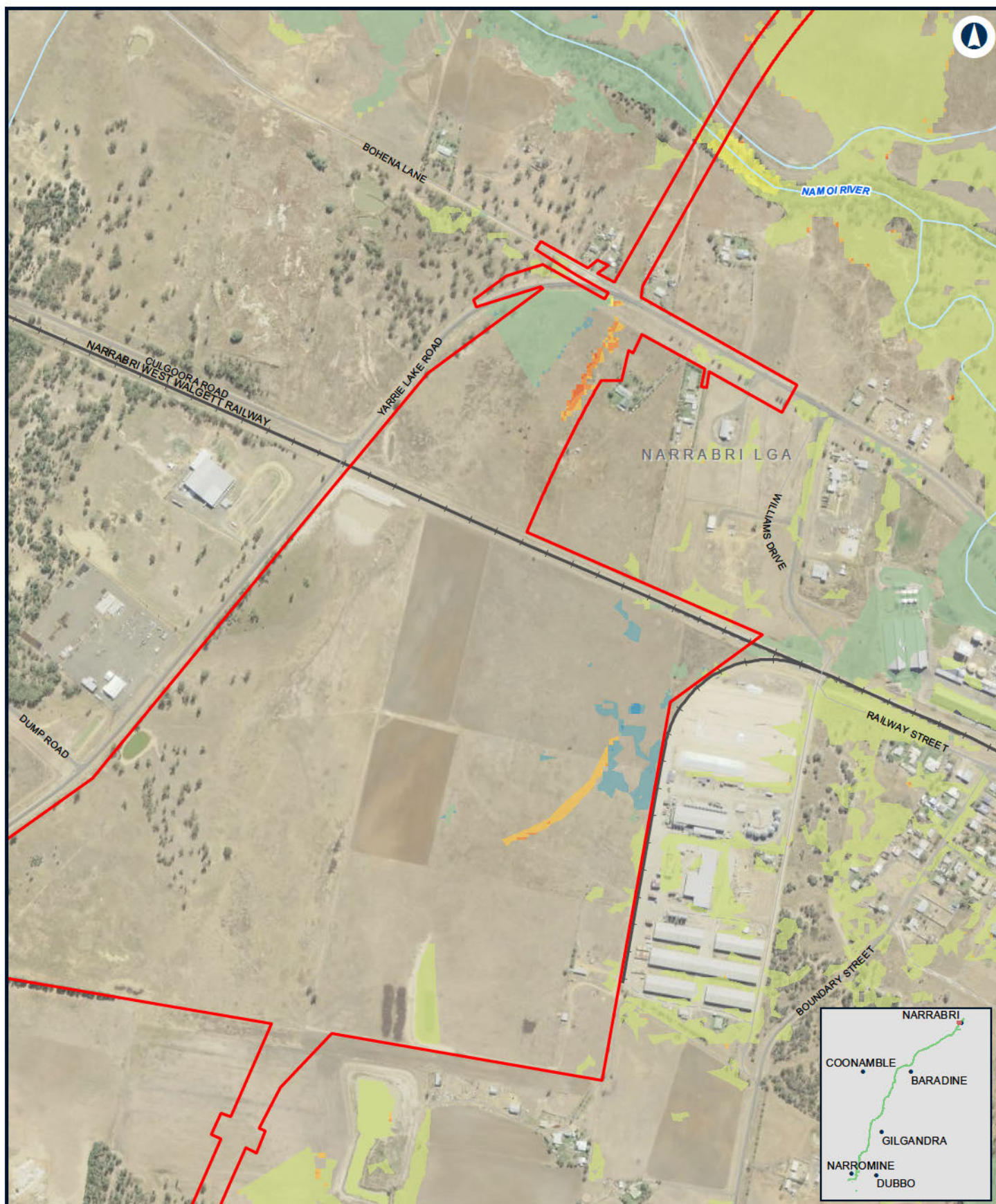
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 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.1.9

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.10

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.11

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1 % AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.12

0 0.1 0.2
Km

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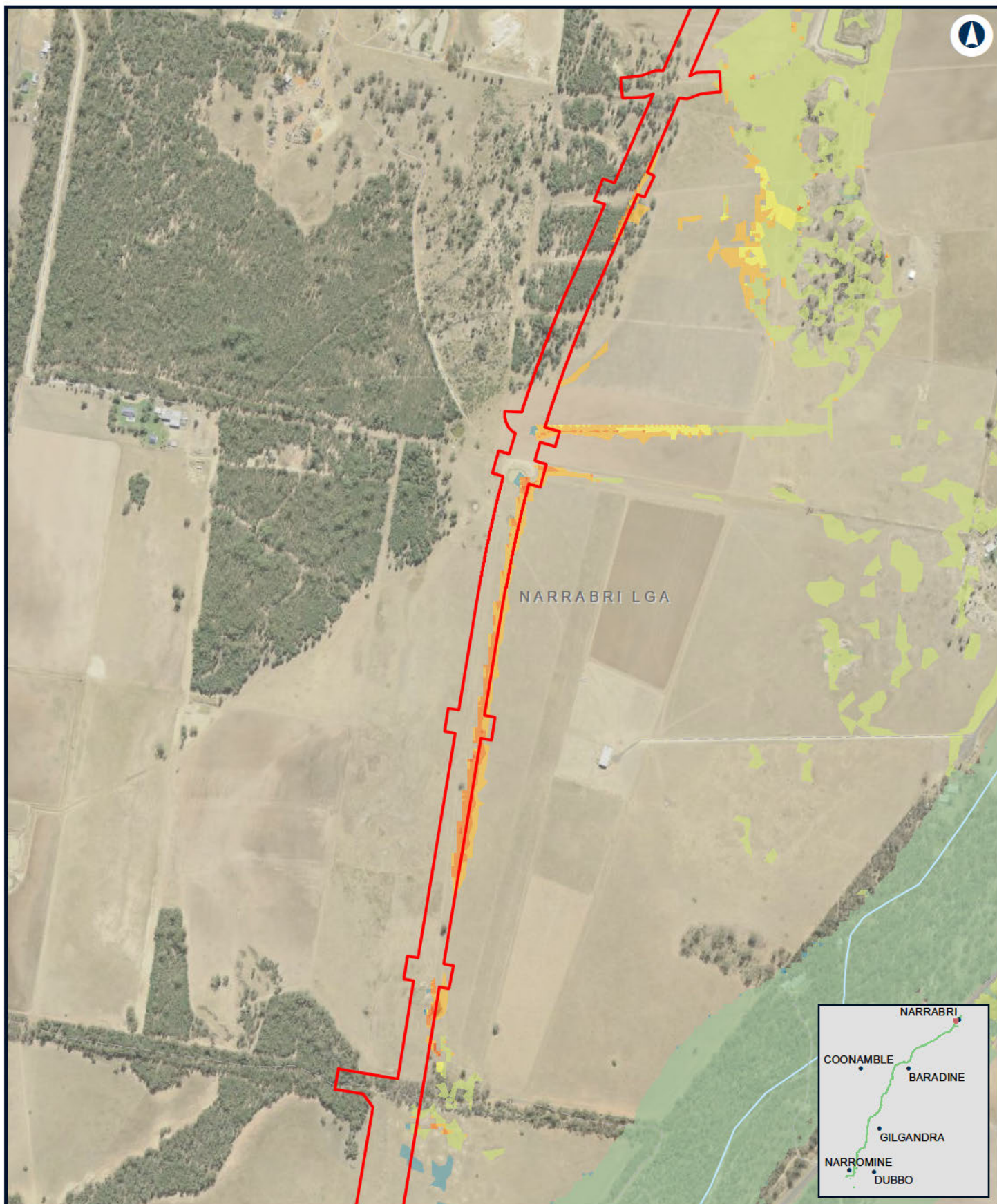
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Paper: A4

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Scale: 1:10,000

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



NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.13

0 0.1 0.2
Km

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LEGEND

 The proposal site

Afflux

> 0.2m decrease
 0.01 m - 0.2 m decrease
 0 m - 0.01 m decrease
 0 m - 0.01 m increase
 0.01 m - 0.05 m increase

0.05 m - 0.1 m increase
 0.1 m - 0.2 m increase
 0.2 m - 0.5 m increase
 > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.14

0 0.1 0.2
Km

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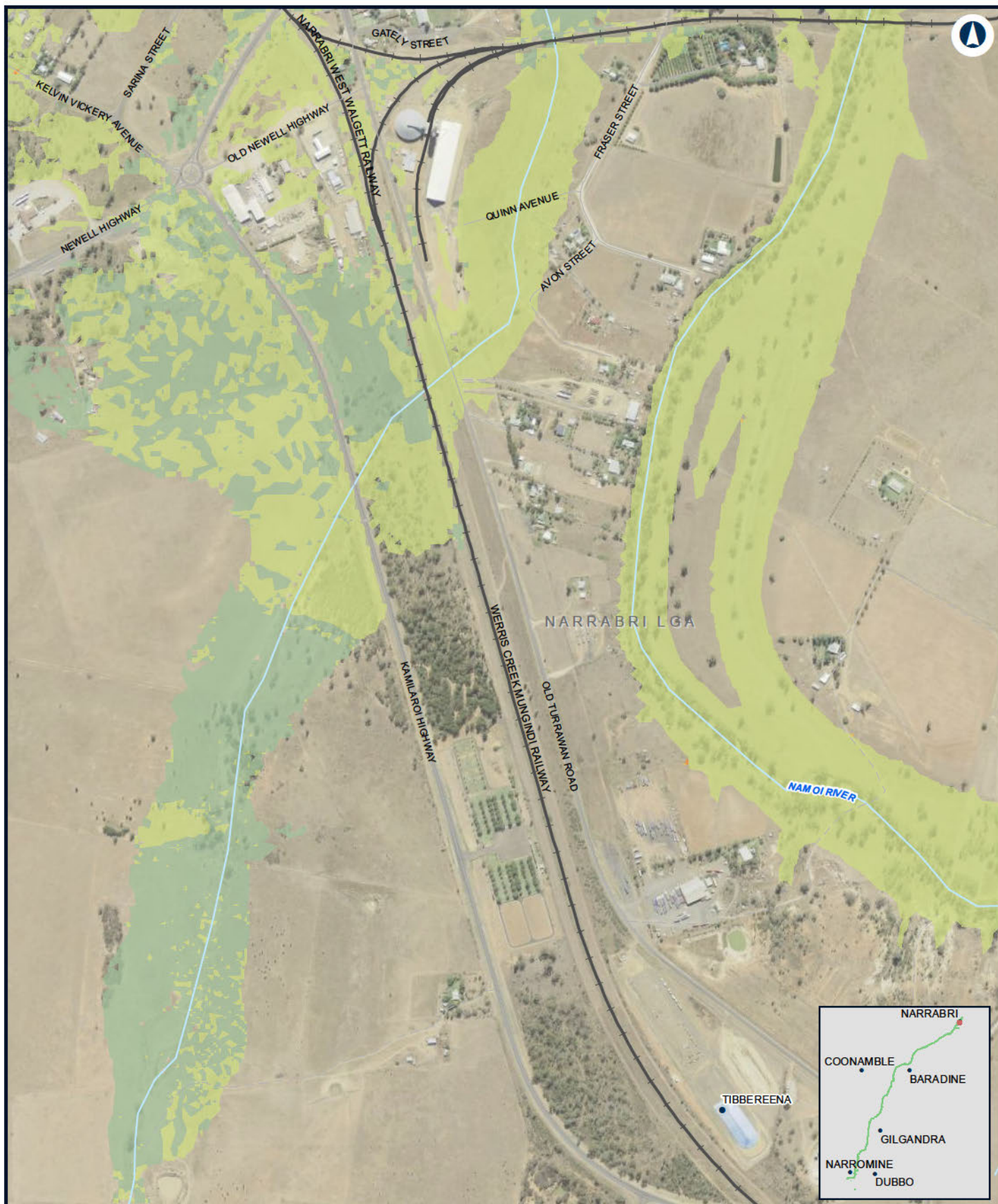
Afflux

- > 0.2m decrease
- 0.01 m - 0.2 m decrease
- 0 m - 0.01 m decrease
- 0 m - 0.01 m increase
- 0.01 m - 0.05 m increase
- 0.05 m - 0.1 m increase

- 0.1 m - 0.2 m increase
- 0.2 m - 0.5 m increase
- > 0.5 m increase

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.15

0 0.1 0.2
Km

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LEGEND

Afflux

> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - 1% AEP with Blockage - Narrabri Local Appendix A - Figure 2.1.16

0 0.1 0.2
Km

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> 0.2m decrease	0.1 m - 0.2 m increase
0.01 m - 0.2 m decrease	0.2 m - 0.5 m increase
0 m - 0.01 m decrease	> 0.5 m increase
0 m - 0.01 m increase	
0.01 m - 0.05 m increase	
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.1

0 0.1 0.2
Km

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Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.2

0 0.1 0.2
Km

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Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

0.1 m/s - 0.5 m/s increase

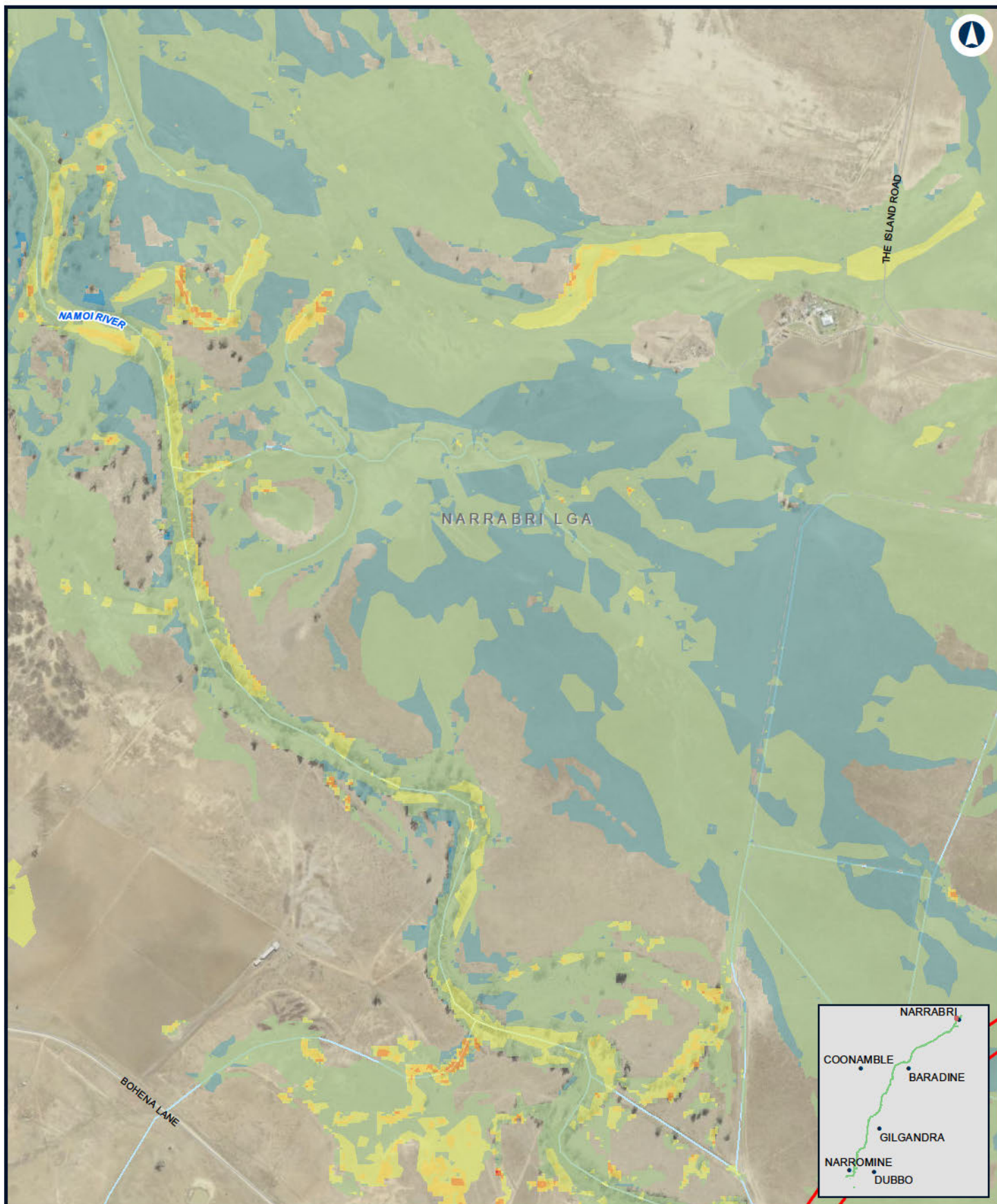
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.3

0 0.1 0.2
Km

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Change in Flood Velocity

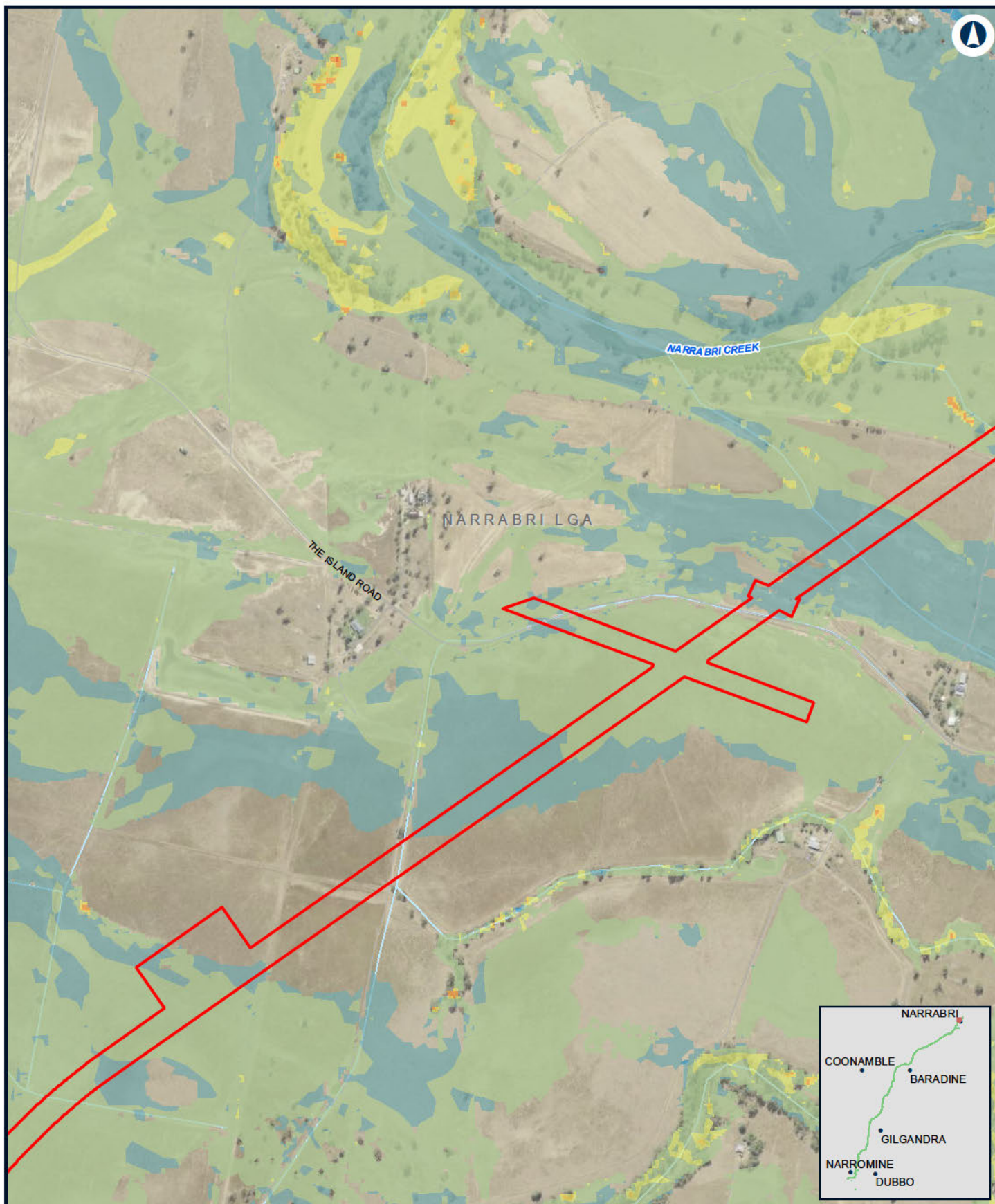
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.4

0 0.1 0.2
Km

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Paper: A4
Scale: 1:10,000

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

LEGEND

The proposal site

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

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



NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.5

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

 The proposal site

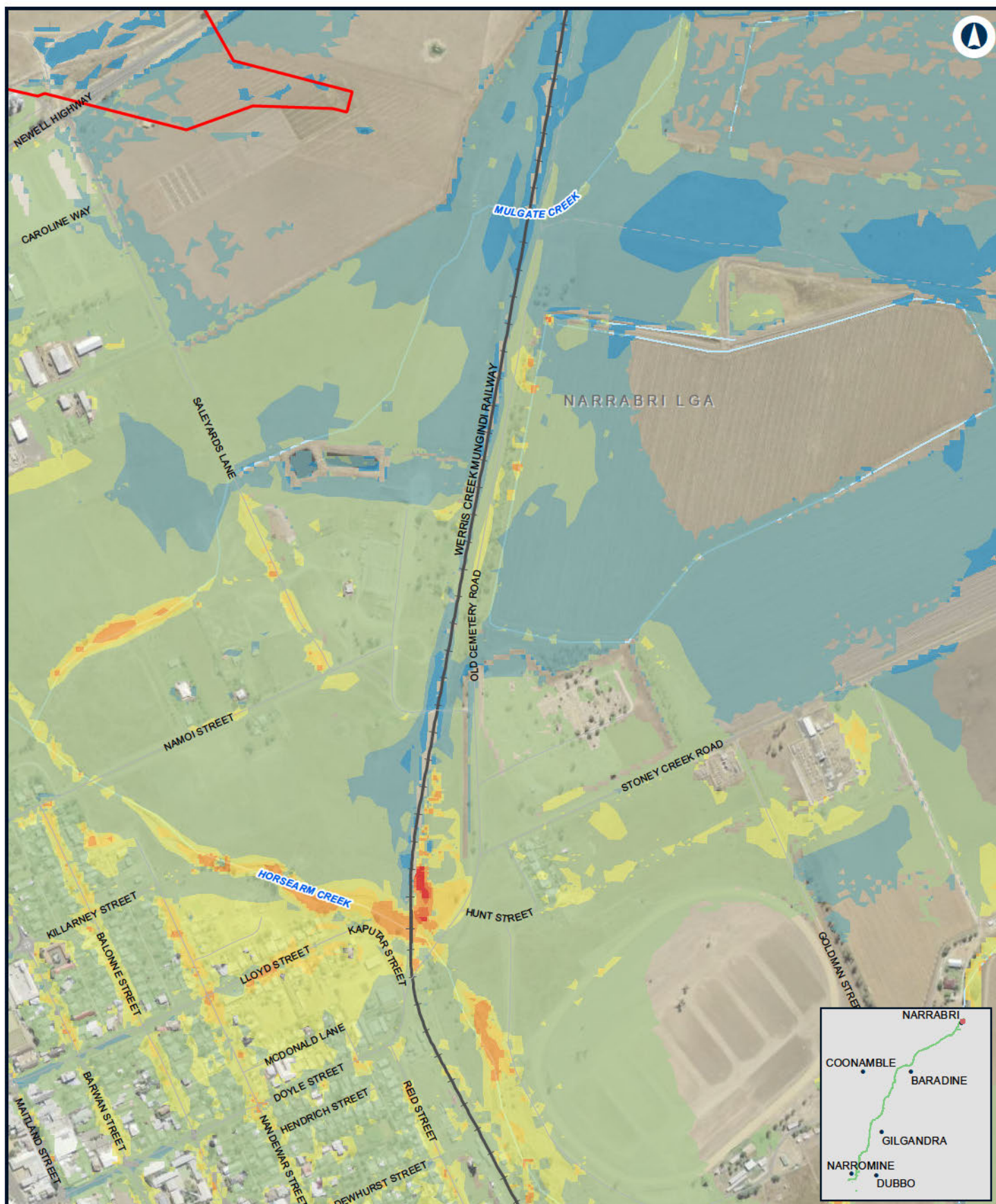
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.6

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

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Scale: 1:10,000

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

LEGEND

 The proposal site

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

0.1 m/s - 0.5 m/s increase

0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.7

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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LEGEND

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase

- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.8

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:10,000

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

LEGEND

 The proposal site

Change in Flood Velocity

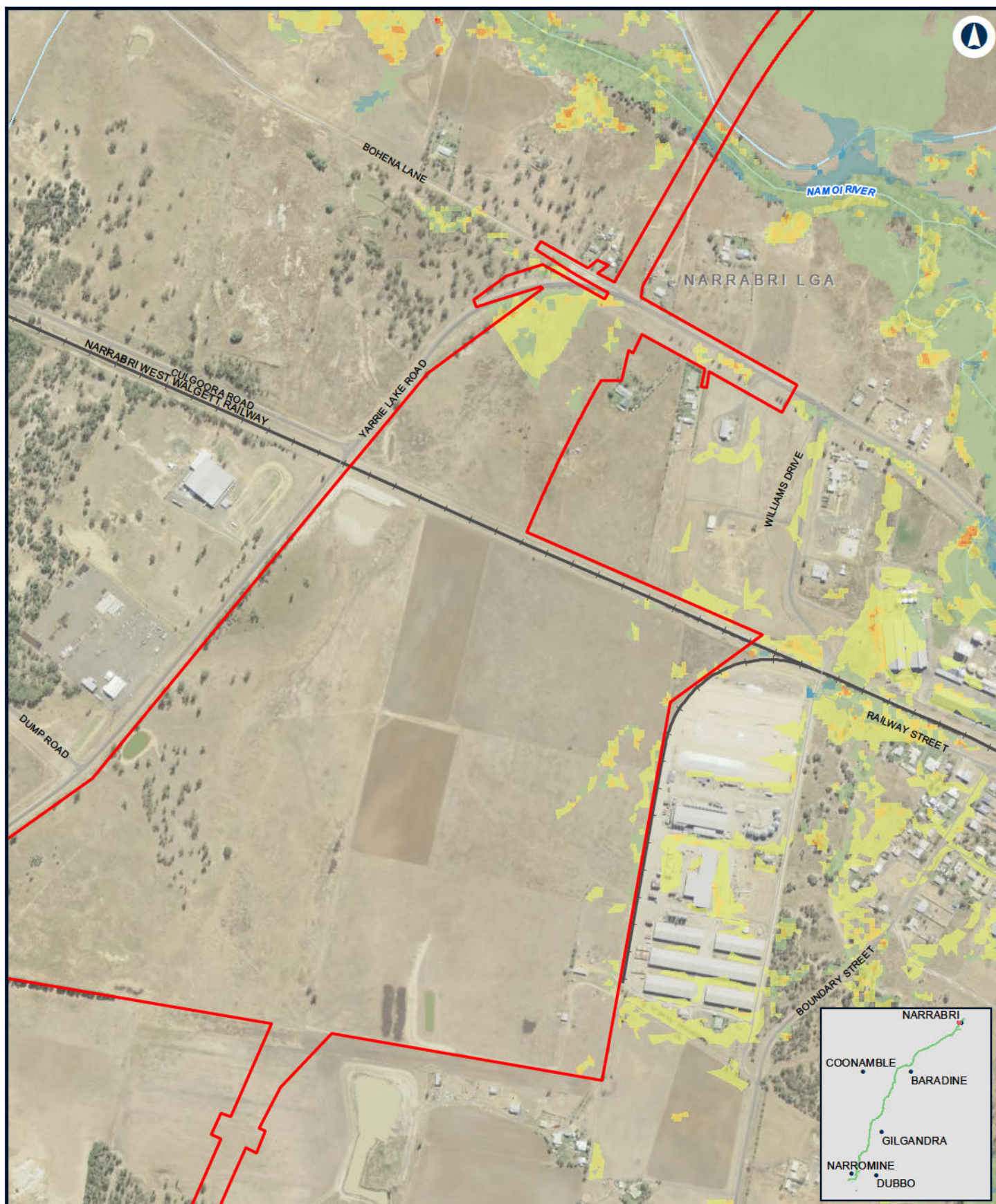
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

**INLAND
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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.9

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase

- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.11

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase

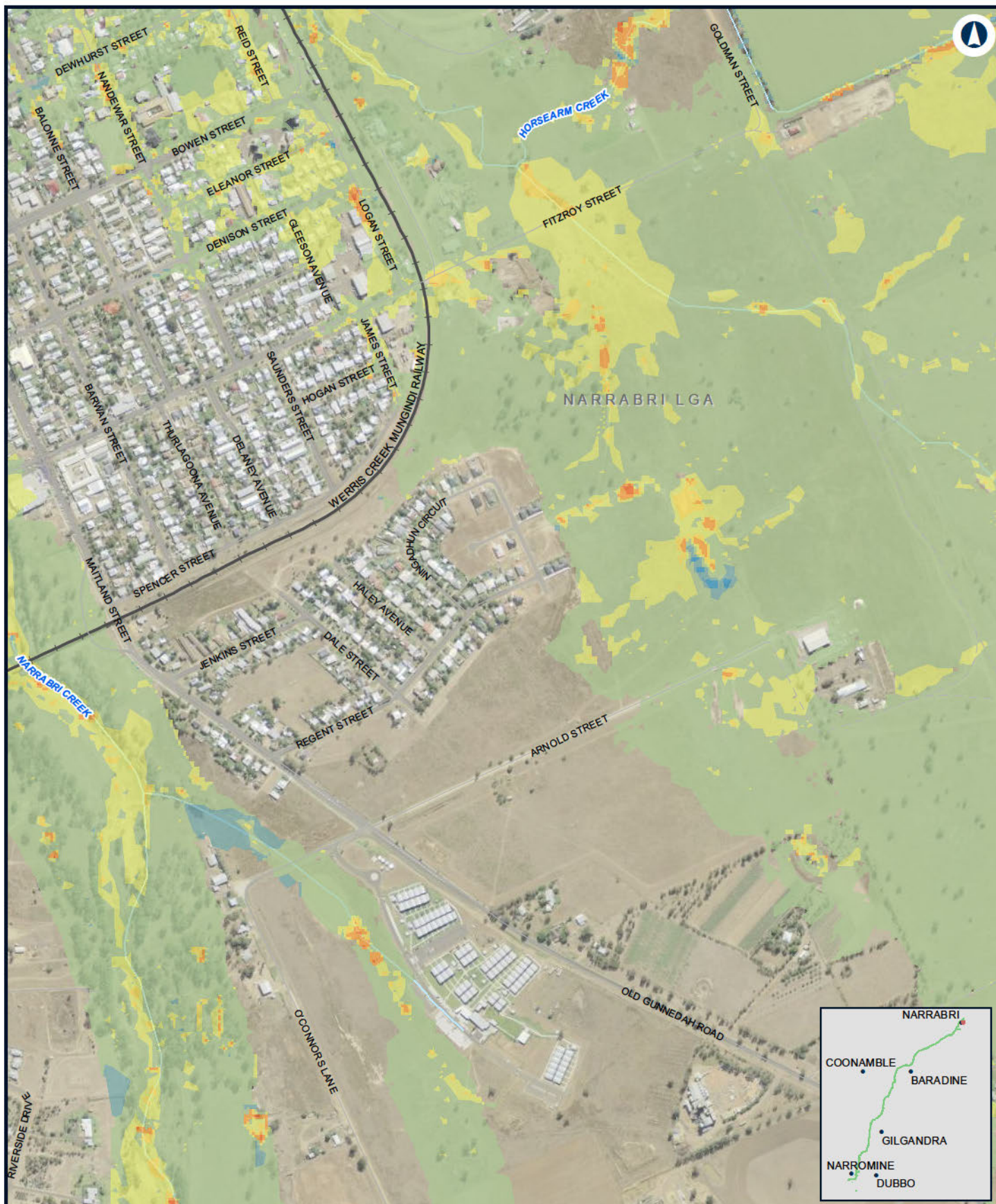
0.5 m/s - 1 m/s increase

> 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.12

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

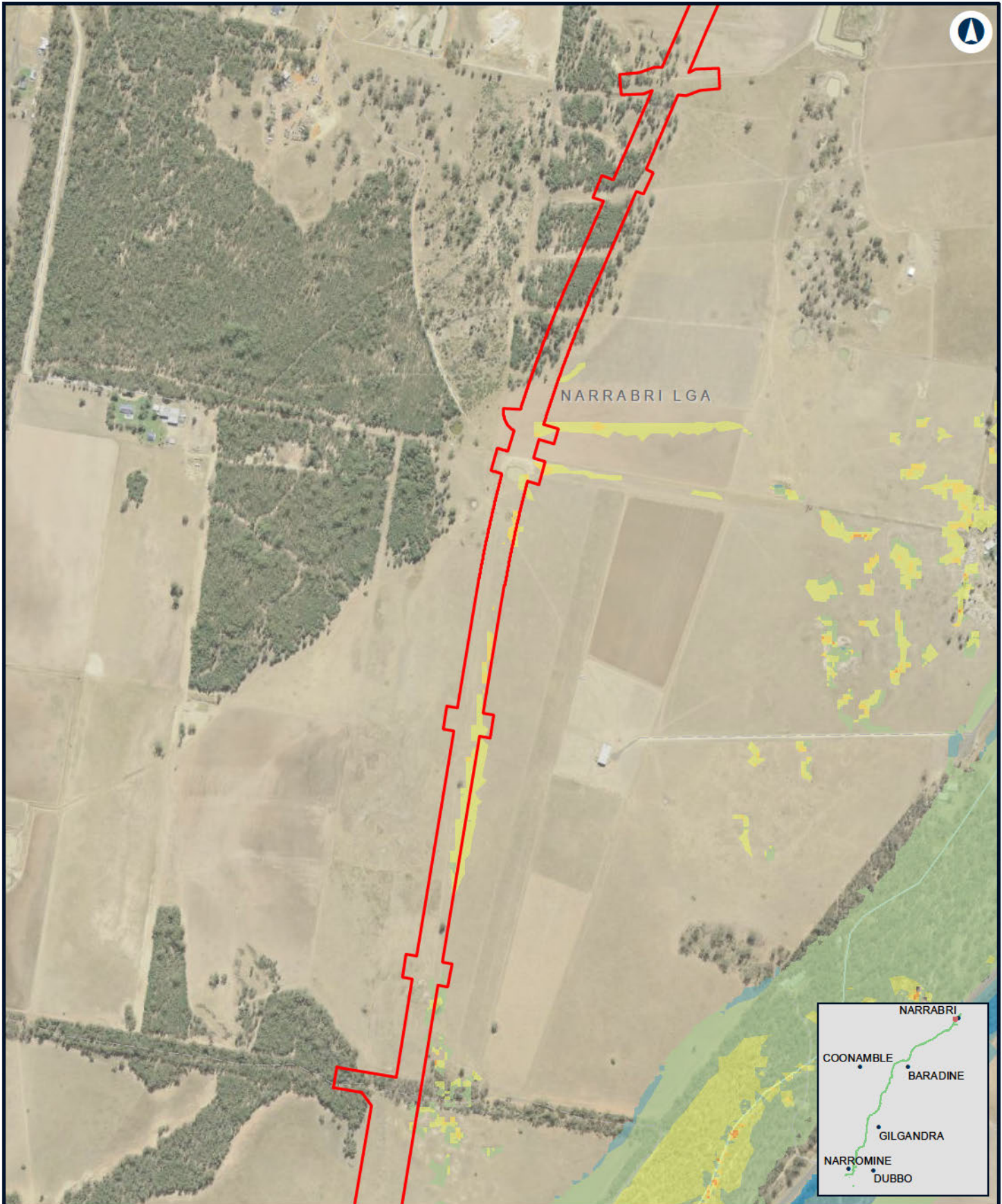
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase

- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

INLAND RAIL **ARTC**

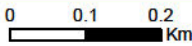
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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.13



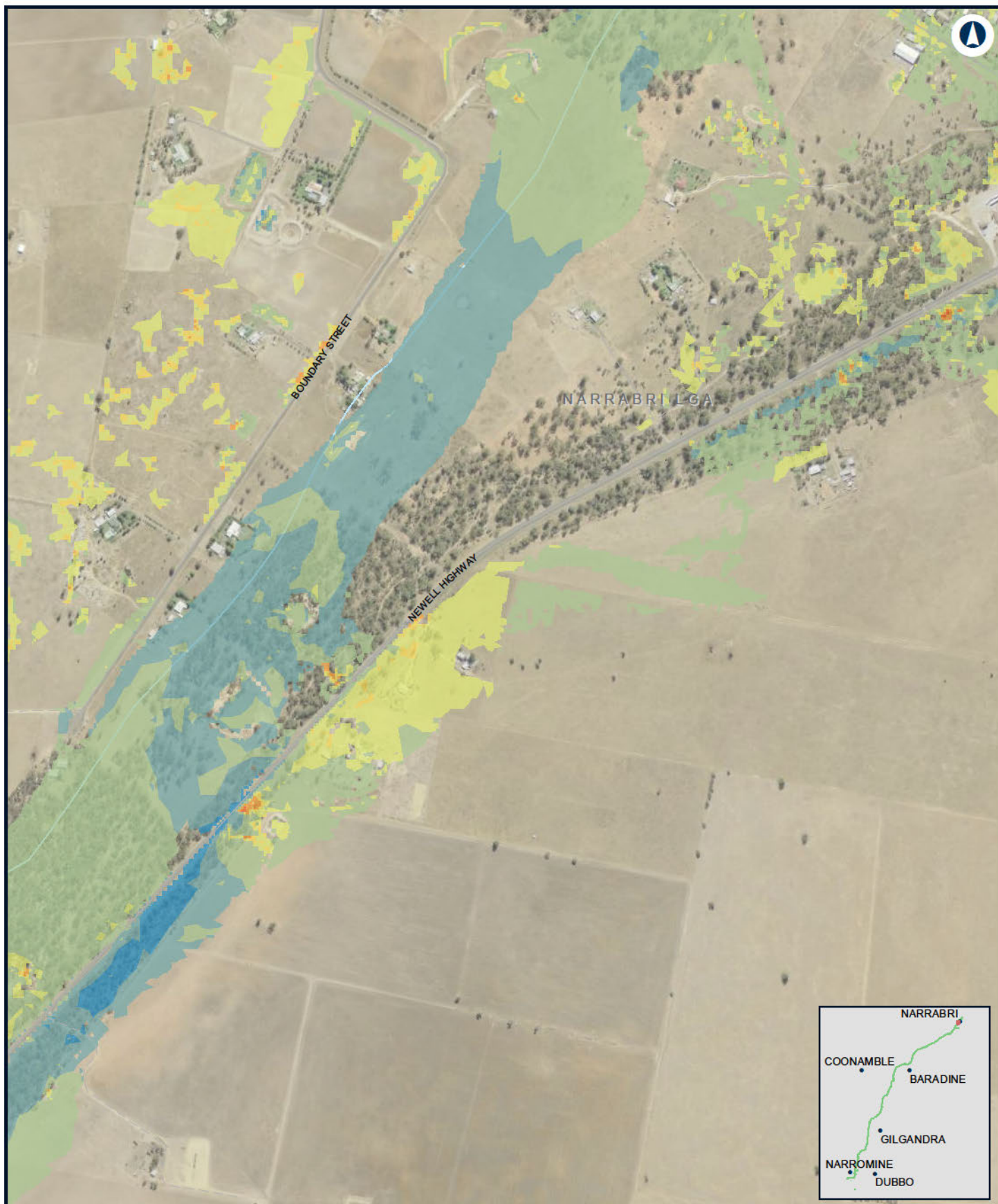
Coordinate System: GDA 1994 MGA Zone 55
 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material.
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 Date: 10/08/2022 Paper: A4
 Author: JacobsGHD Scale: 1:10,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Change in Flood Velocity**
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase
- 0.5 m/s - 1 m/s increase
- > 1 m/s increase



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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.14

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Change in Flood Velocity

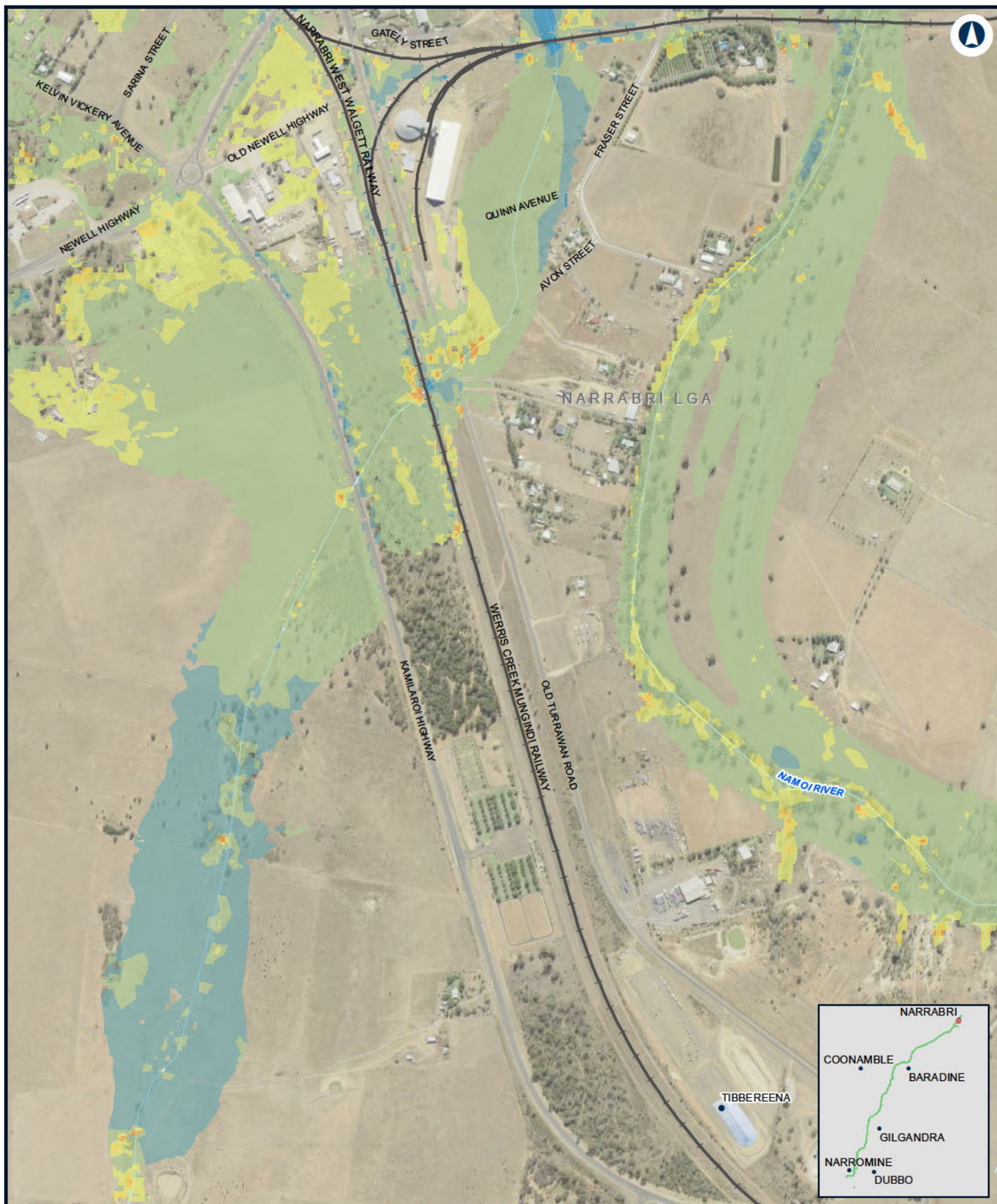
- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase

- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARRABRI TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.15

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

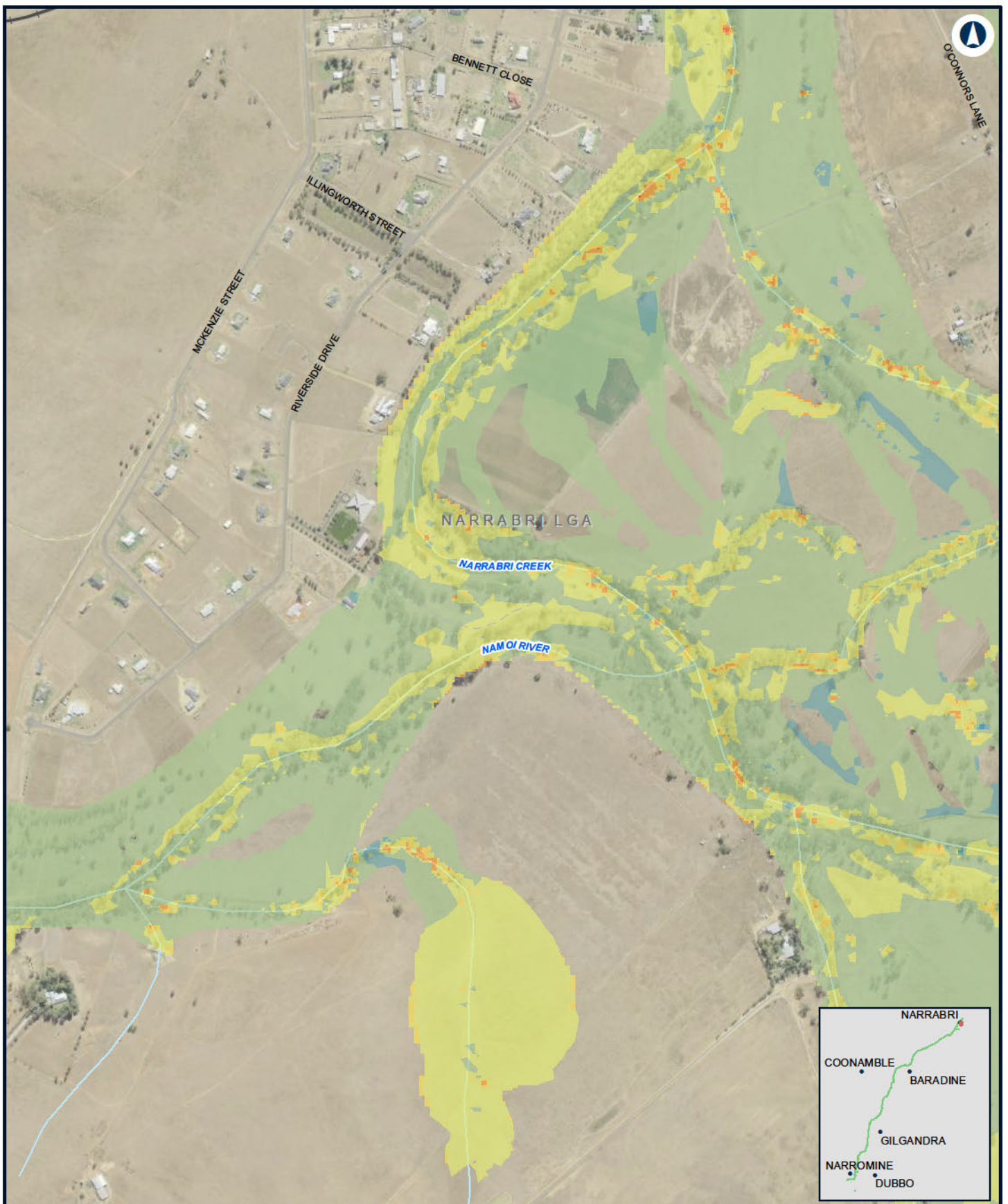
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase

- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in velocity - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.2.16

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:10,000

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

LEGEND

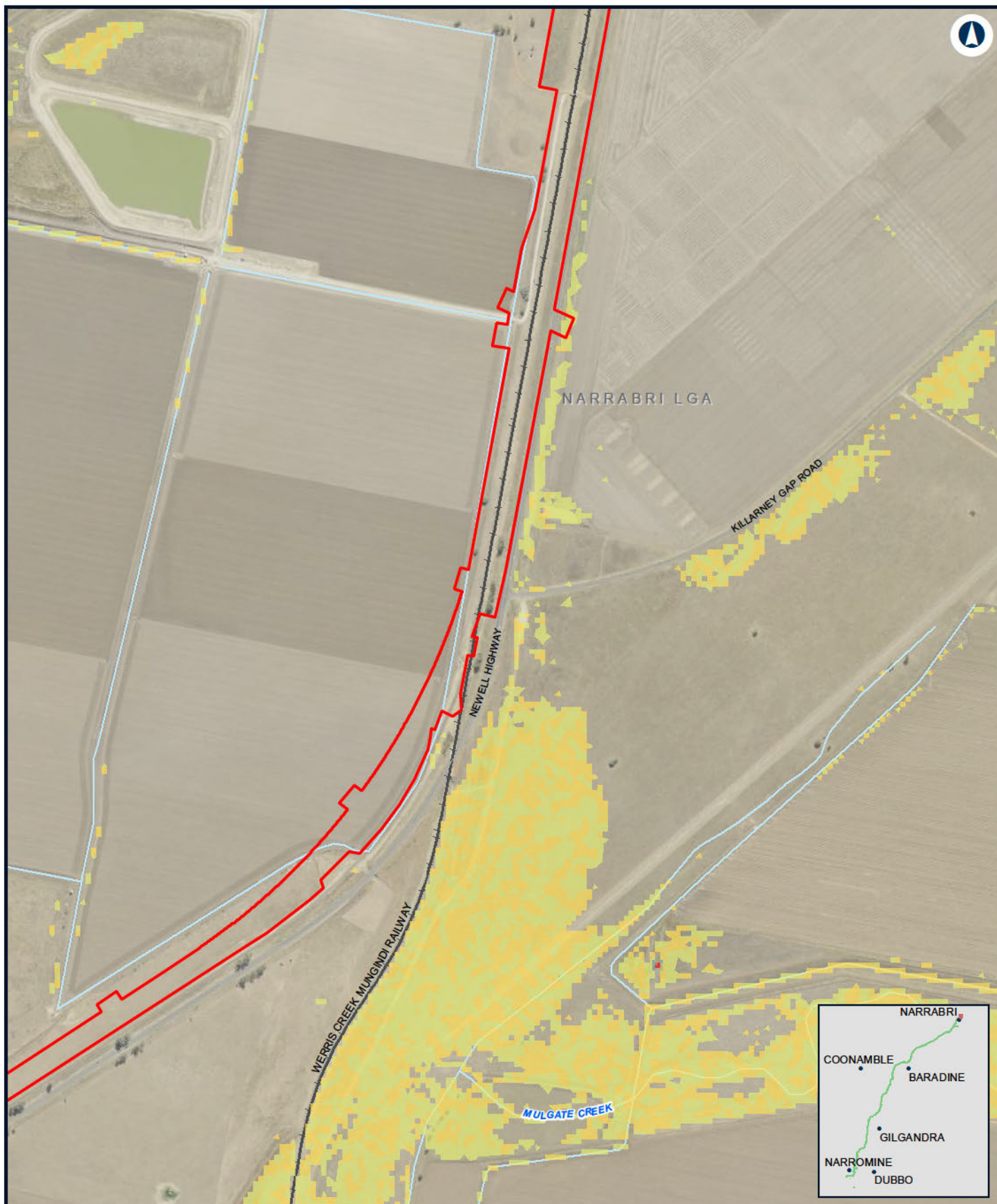
Change in Flood Velocity

- > 1 m/s decrease
- 0.5 m/s - 1 m/s decrease
- 0.1 m/s - 0.5 m/s decrease
- 0 m/s - 0.1 m/s decrease
- 0 m/s - 0.1 m/s increase
- 0.1 m/s - 0.5 m/s increase

- 0.5 m/s - 1 m/s increase
- > 1 m/s increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.1

0 0.1 0.2
Km

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Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.2

0 0.1 0.2
Km

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Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

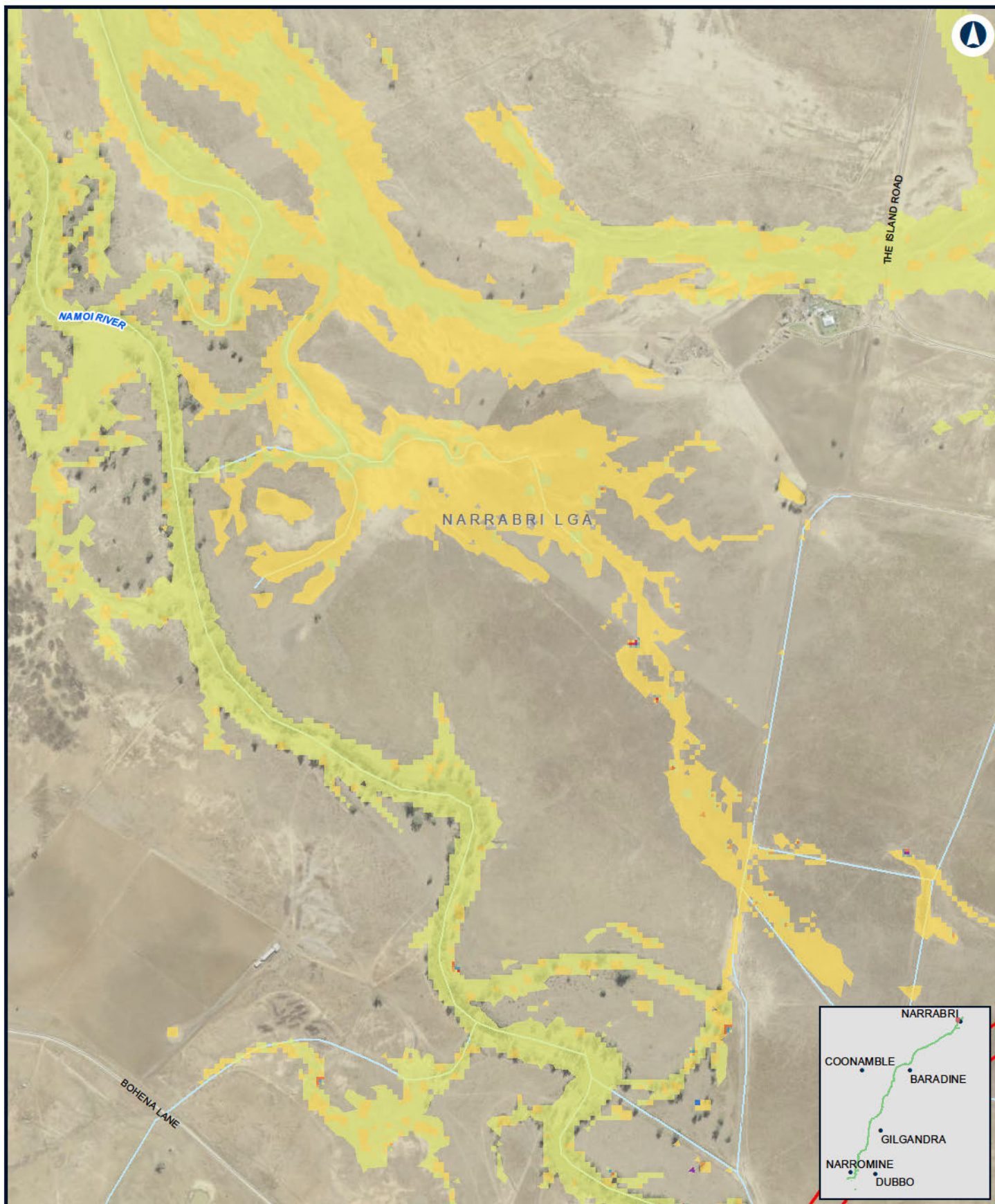
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.3

0 0.1 0.2
Km

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

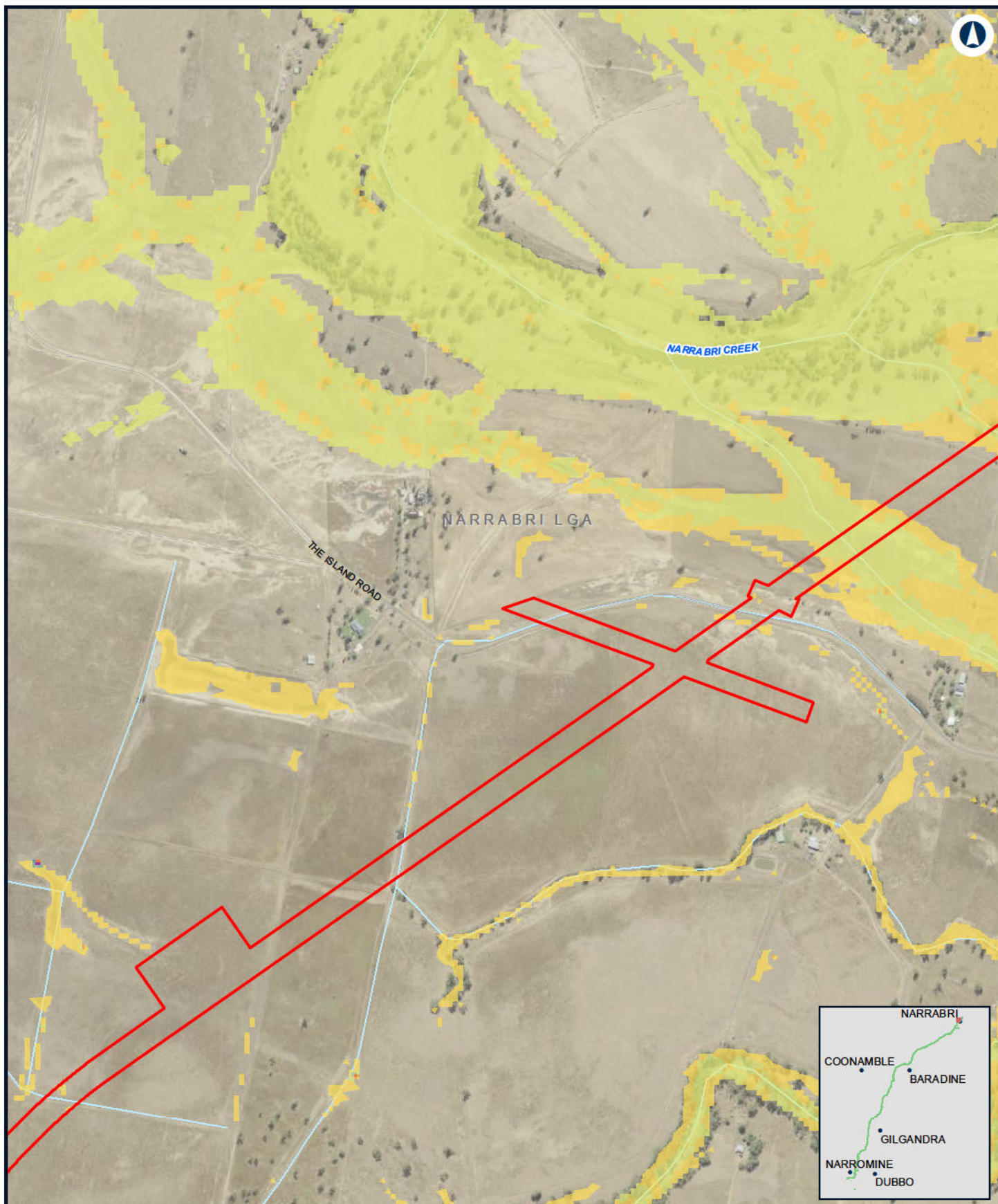
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.4

0 0.1 0.2
Km

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Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

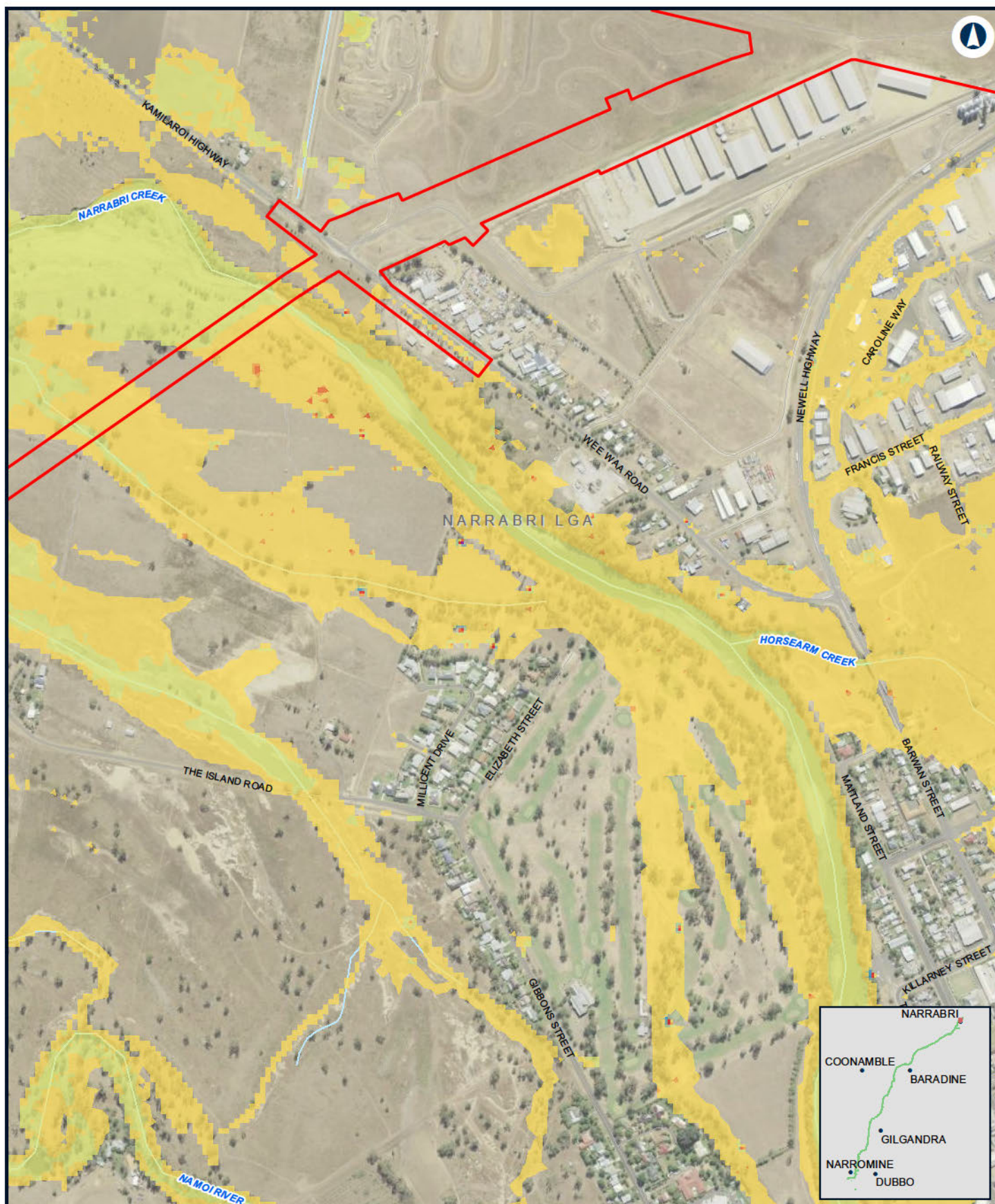
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.5

0 0.1 0.2
Km

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LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

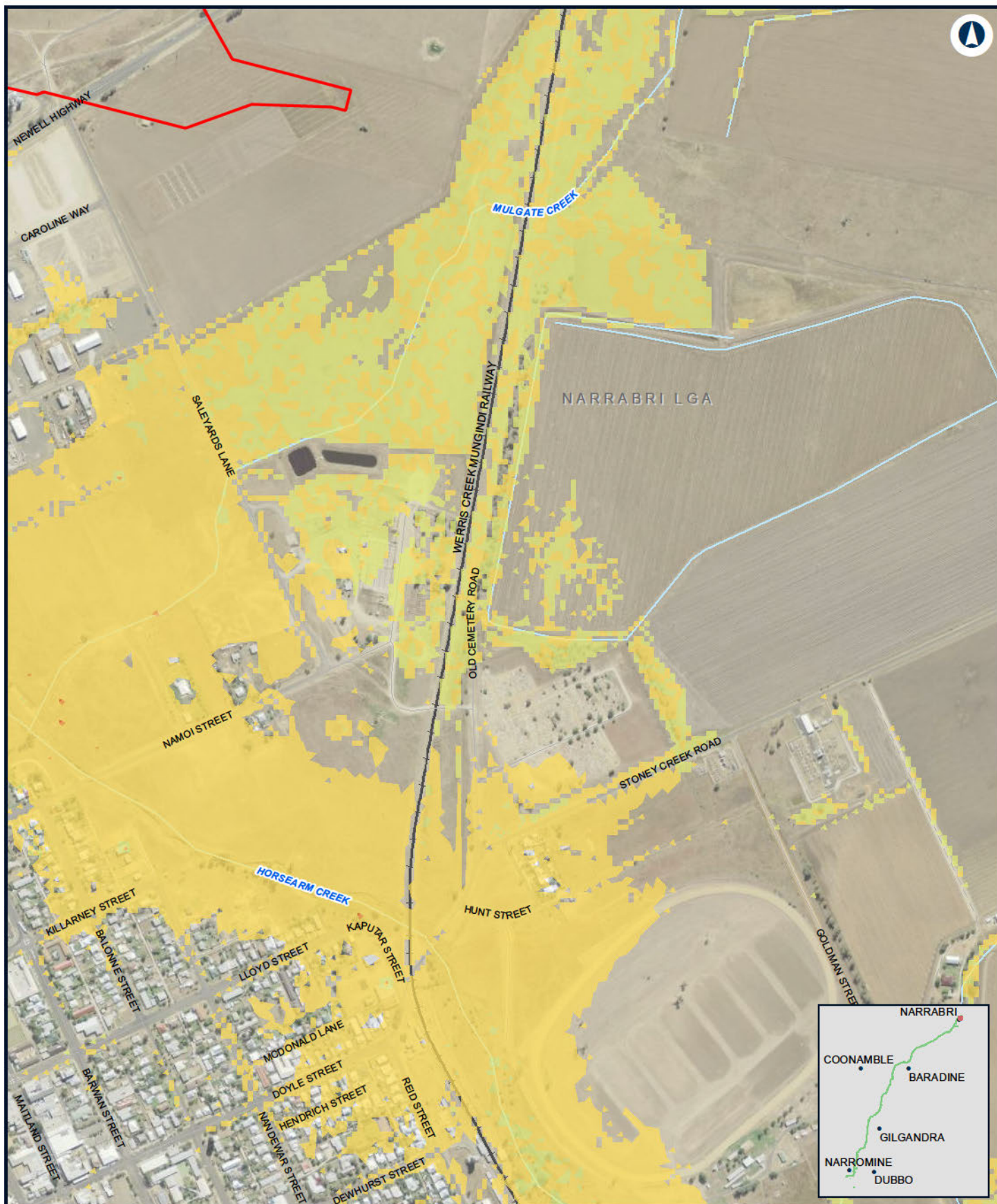
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.6

0 0.1 0.2
Km

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Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

 12 hr - 24 hr increase

 > 24 hr increase

**INLAND
RAIL**

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.7

0 0.1 0.2
Km

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Duration Change

> 24 hr decrease	3 hr - 6 hr increase
12 hr - 24 hr decrease	6 hr - 12 hr increase
6 hr - 12 hr decrease	12 hr - 24 hr increase
3 hr - 6 hr decrease	> 24 hr increase
0 hr - 3 hr decrease	
0 hr - 3 hr increase	

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.8

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

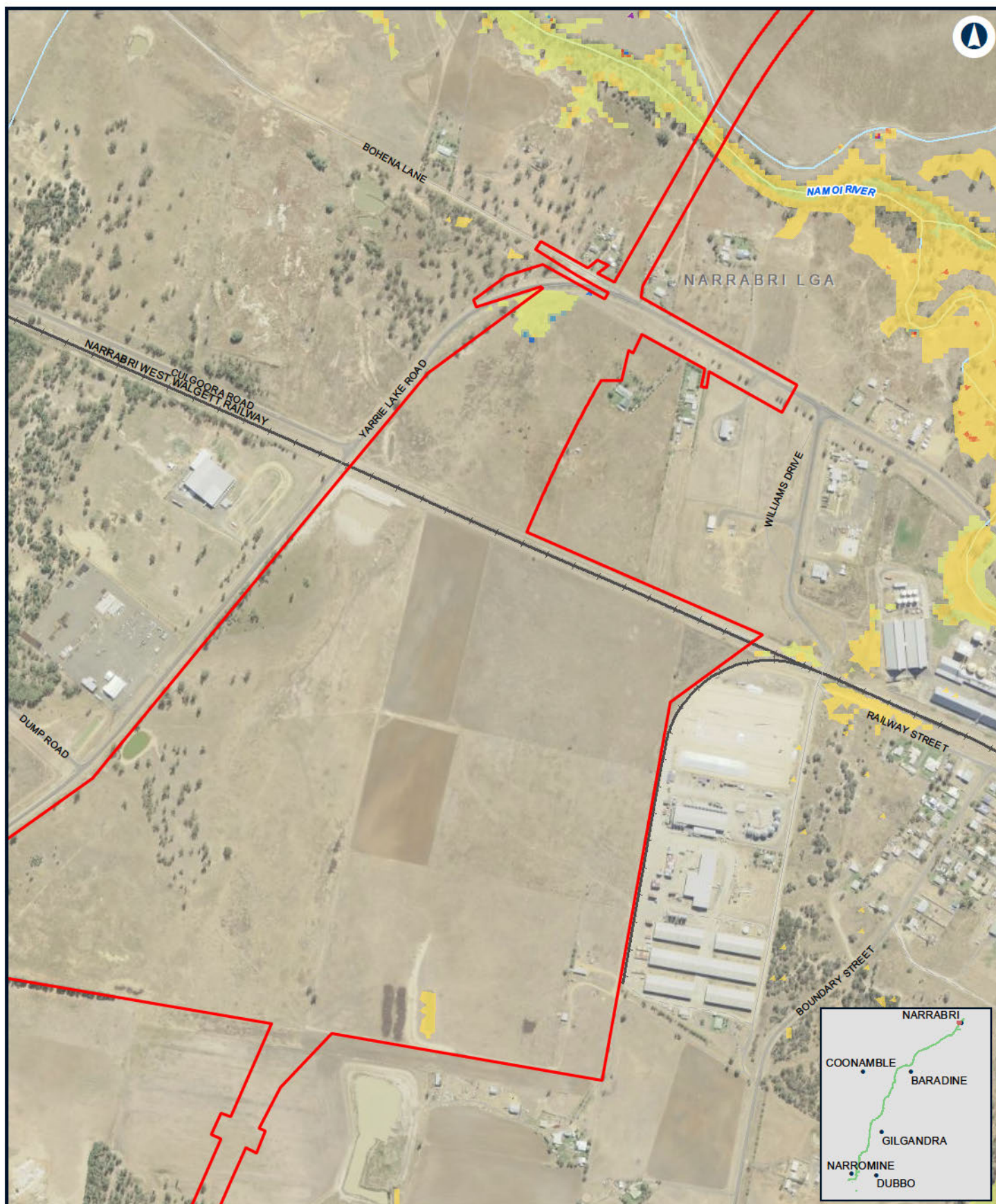
 6 hr - 12 hr increase

 12 hr - 24 hr increase

 > 24 hr increase

INLAND RAIL **ARTC**

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



NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.9

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

 12 hr - 24 hr increase

 > 24 hr increase

**INLAND
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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.11

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

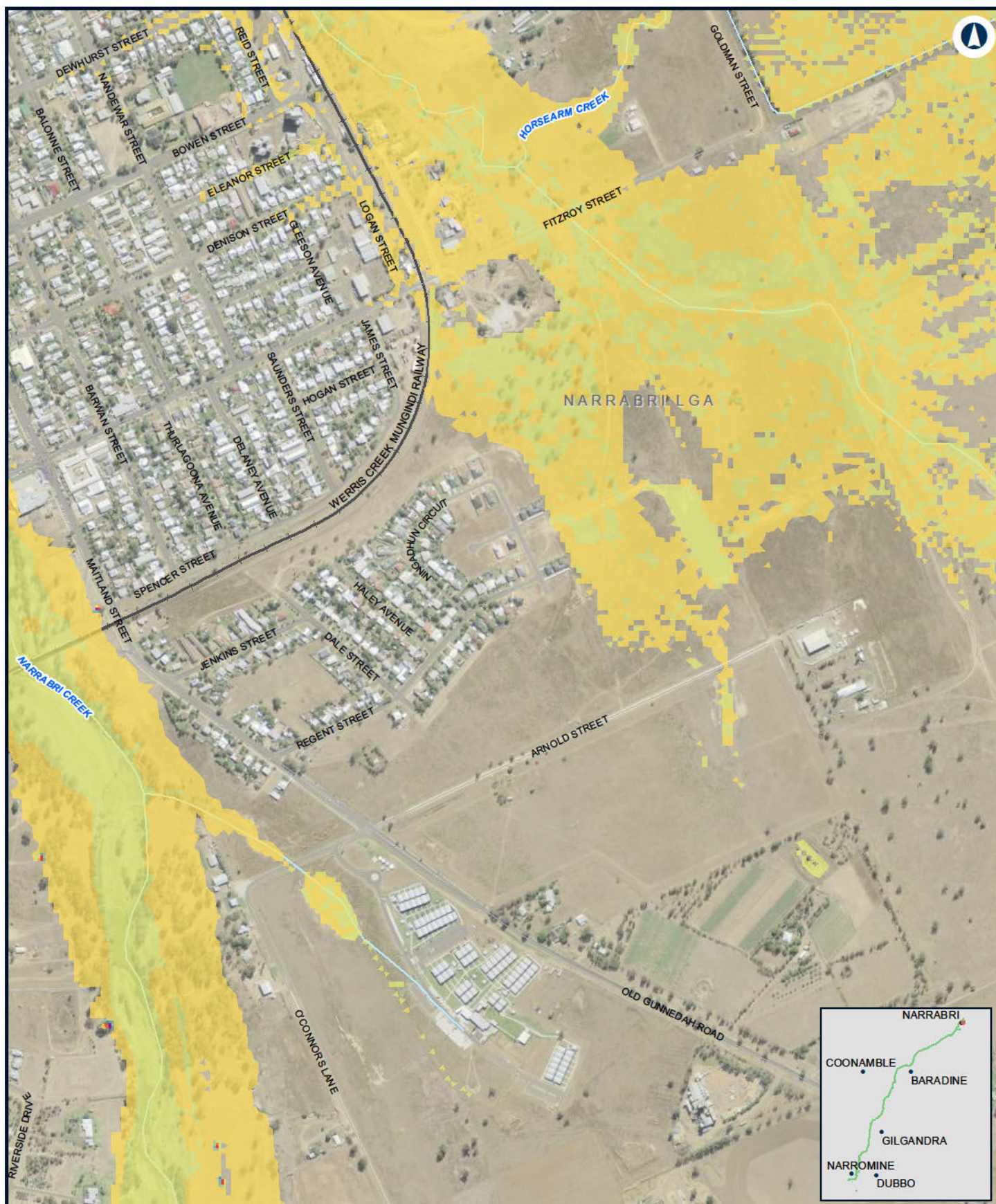
Duration Change

- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase

- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

INLAND RAIL **ARTC**

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NARRABRI TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.12

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

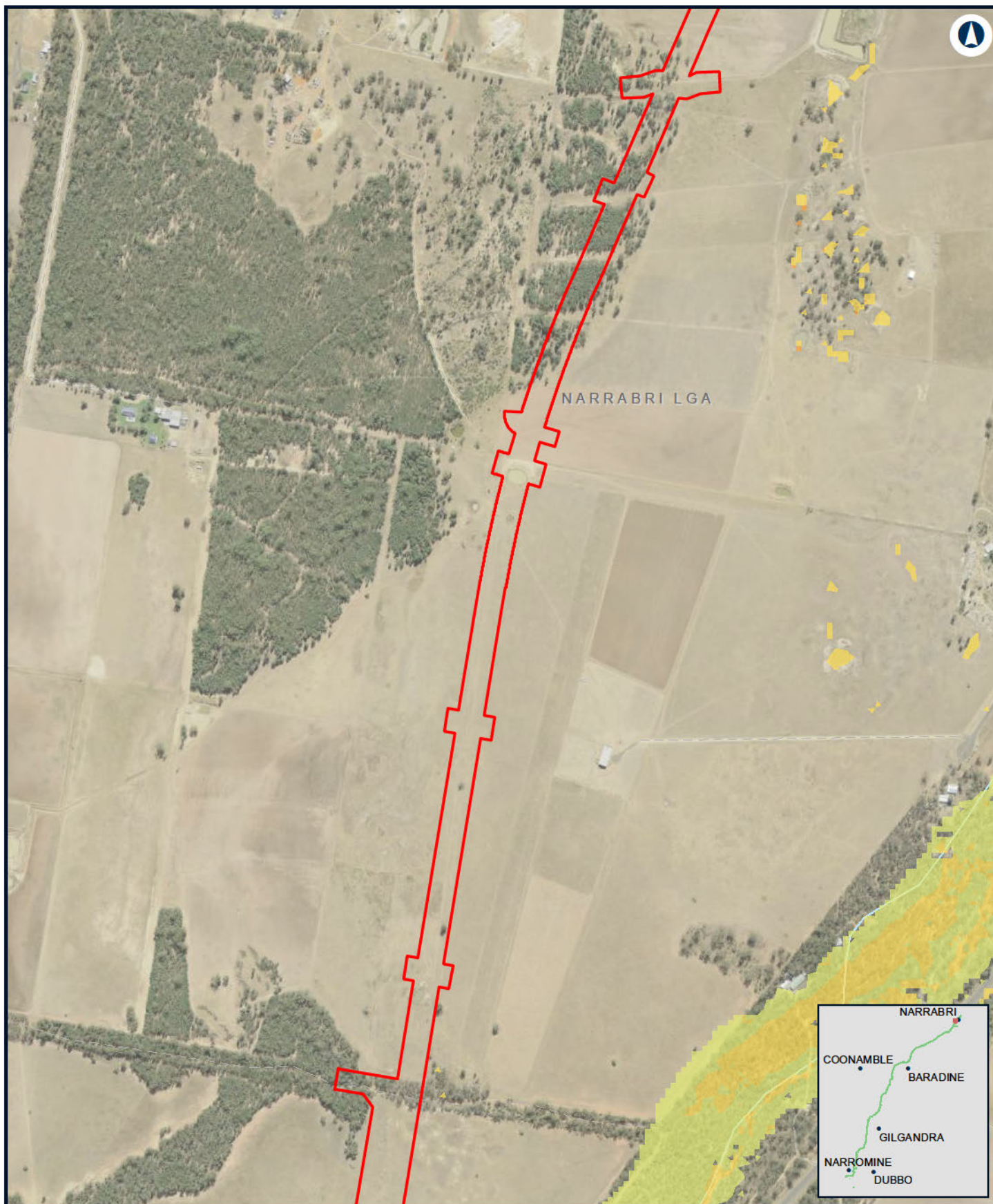
Duration Change

> 24 hr decrease
12 hr - 24 hr decrease
6 hr - 12 hr decrease
3 hr - 6 hr decrease
0 hr - 3 hr decrease
0 hr - 3 hr increase

3 hr - 6 hr increase
6 hr - 12 hr increase
12 hr - 24 hr increase
> 24 hr increase

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.13

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

 The proposal site

Duration Change

 > 24 hr decrease

 12 hr - 24 hr decrease

 6 hr - 12 hr decrease

 3 hr - 6 hr decrease

 0 hr - 3 hr decrease

 0 hr - 3 hr increase

 3 hr - 6 hr increase

 6 hr - 12 hr increase

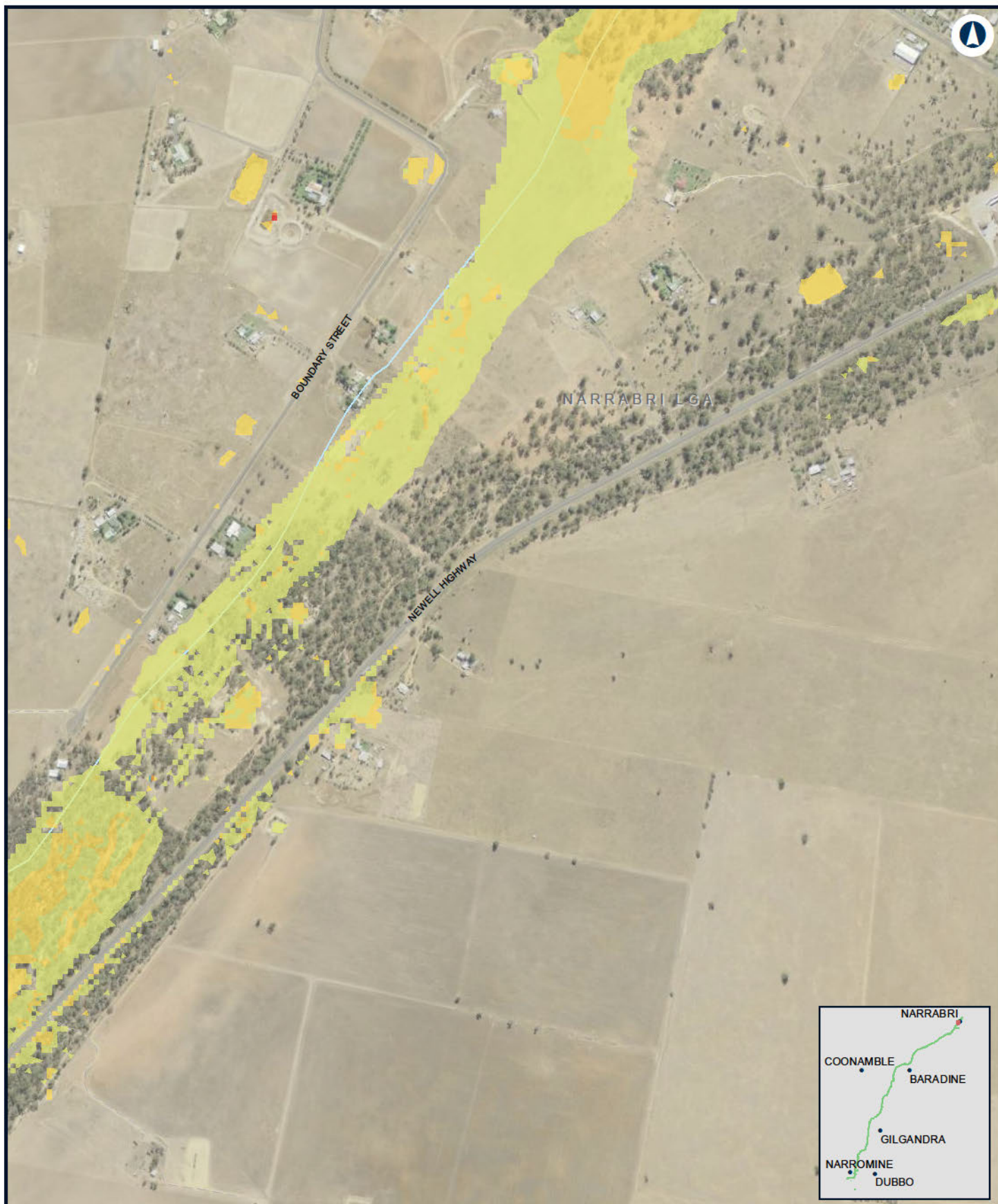
 12 hr - 24 hr increase

 > 24 hr increase

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.14

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

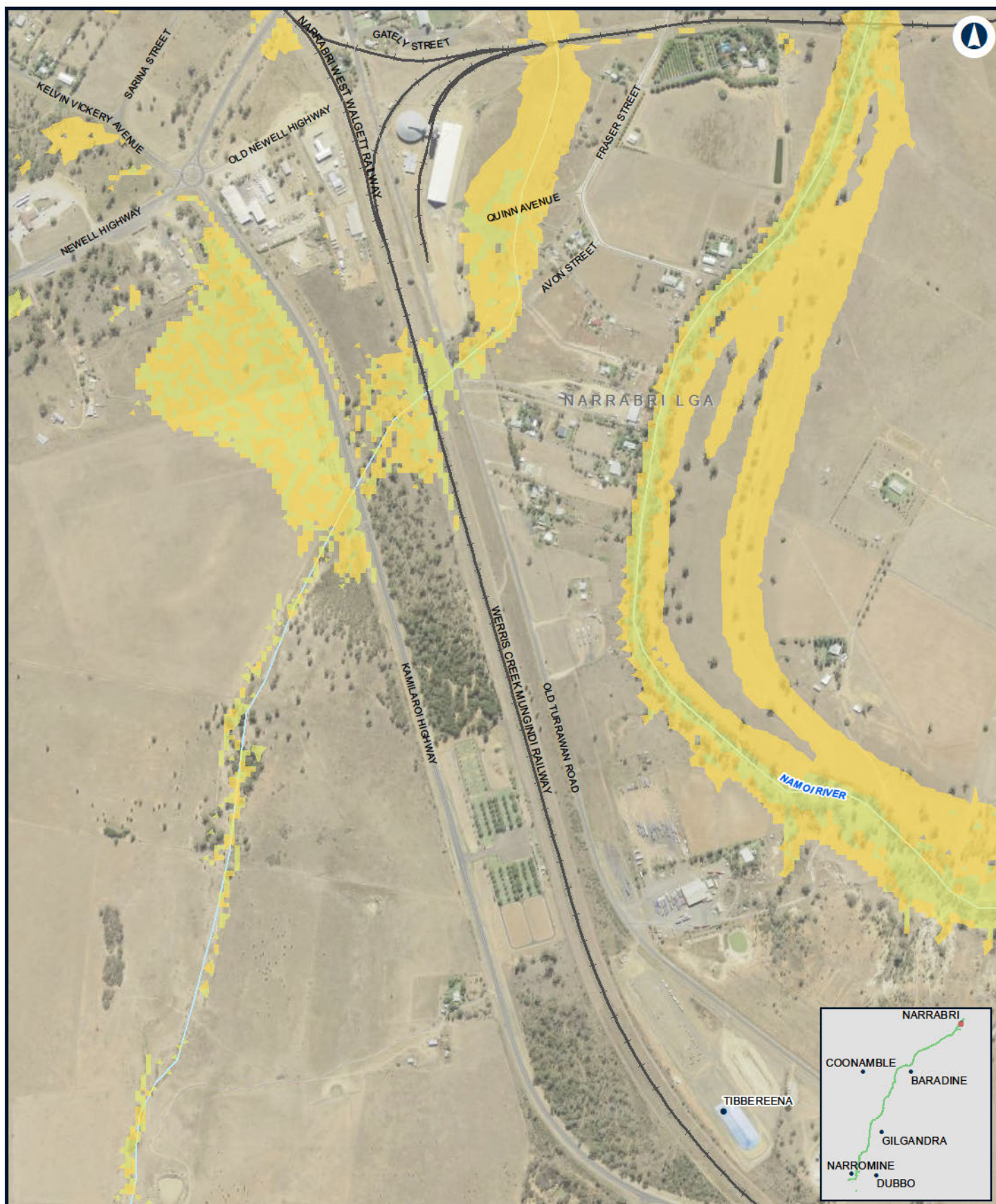
LEGEND

Duration Change

> 24 hr decrease	3 hr - 6 hr increase
12 hr - 24 hr decrease	6 hr - 12 hr increase
6 hr - 12 hr decrease	12 hr - 24 hr increase
3 hr - 6 hr decrease	> 24 hr increase
0 hr - 3 hr decrease	
0 hr - 3 hr increase	

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.15

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022
Author: JacobsGHD

Paper: A4
Scale: 1:10,000

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

LEGEND

Duration Change

> 24 hr decrease	3 hr - 6 hr increase
12 hr - 24 hr decrease	6 hr - 12 hr increase
6 hr - 12 hr decrease	12 hr - 24 hr increase
3 hr - 6 hr decrease	> 24 hr increase
0 hr - 3 hr decrease	
0 hr - 3 hr increase	

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in duration - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.3.16

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Duration Change

> 24 hr decrease

12 hr - 24 hr decrease

6 hr - 12 hr decrease

3 hr - 6 hr decrease

0 hr - 3 hr decrease

0 hr - 3 hr increase

3 hr - 6 hr increase

6 hr - 12 hr increase

12 hr - 24 hr increase

> 24 hr increase

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NARRABRI TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.1

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

Was high, now low

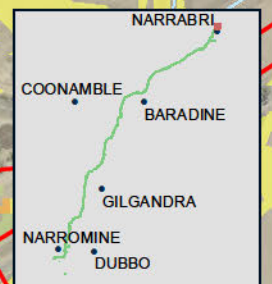
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARRABRI TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.2

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

 The proposal site

Hazard Change

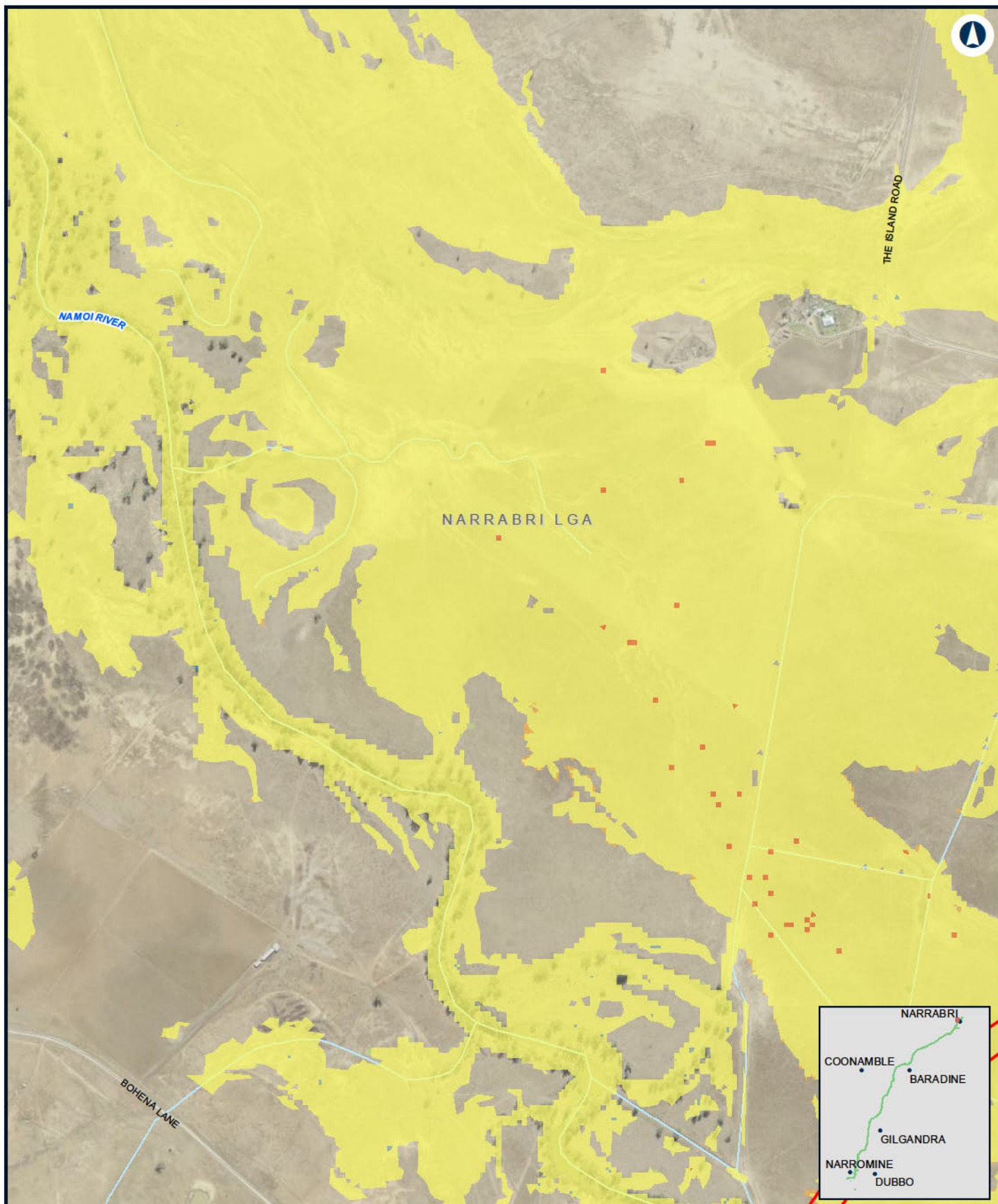
- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.3

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

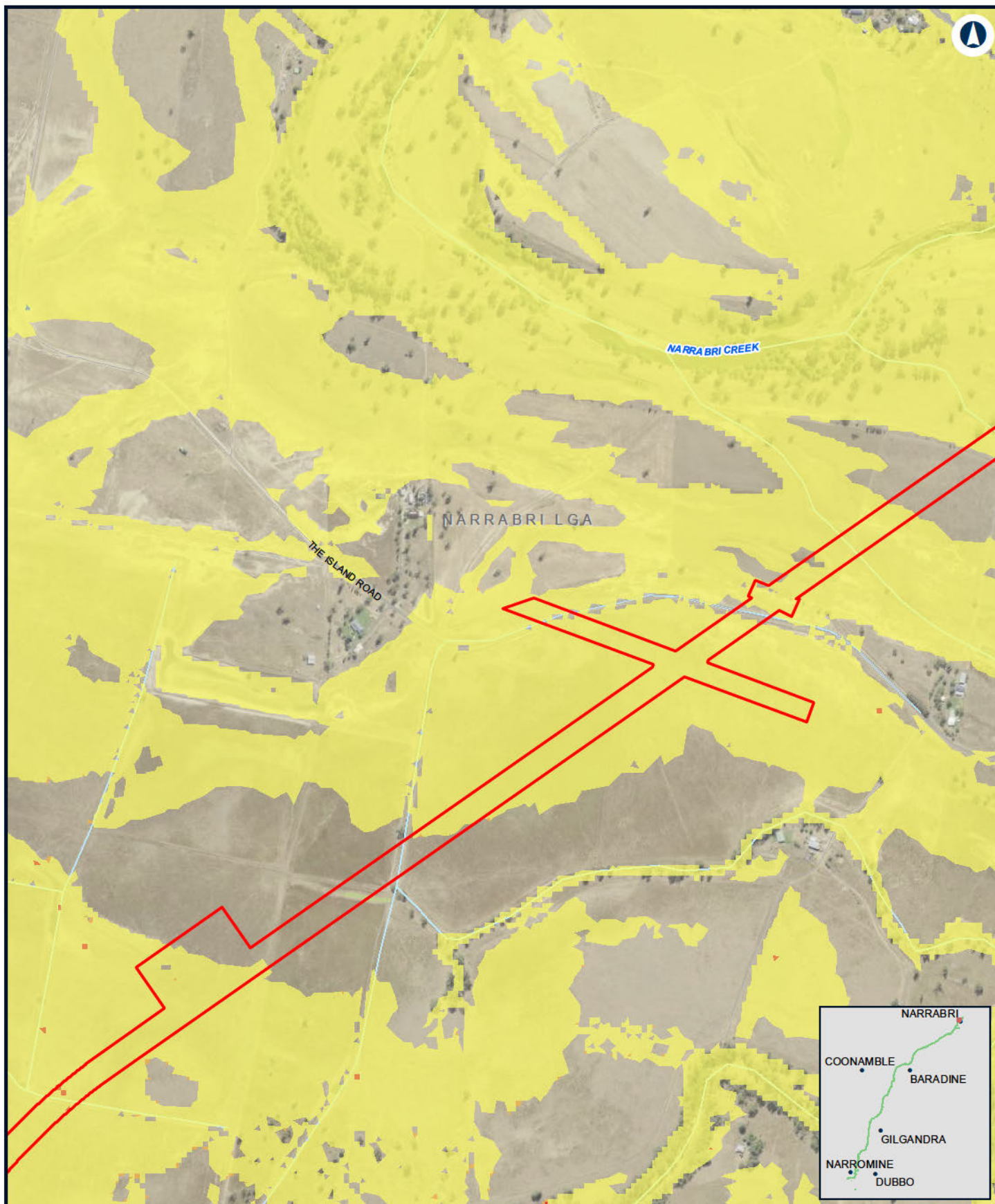
Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.4

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

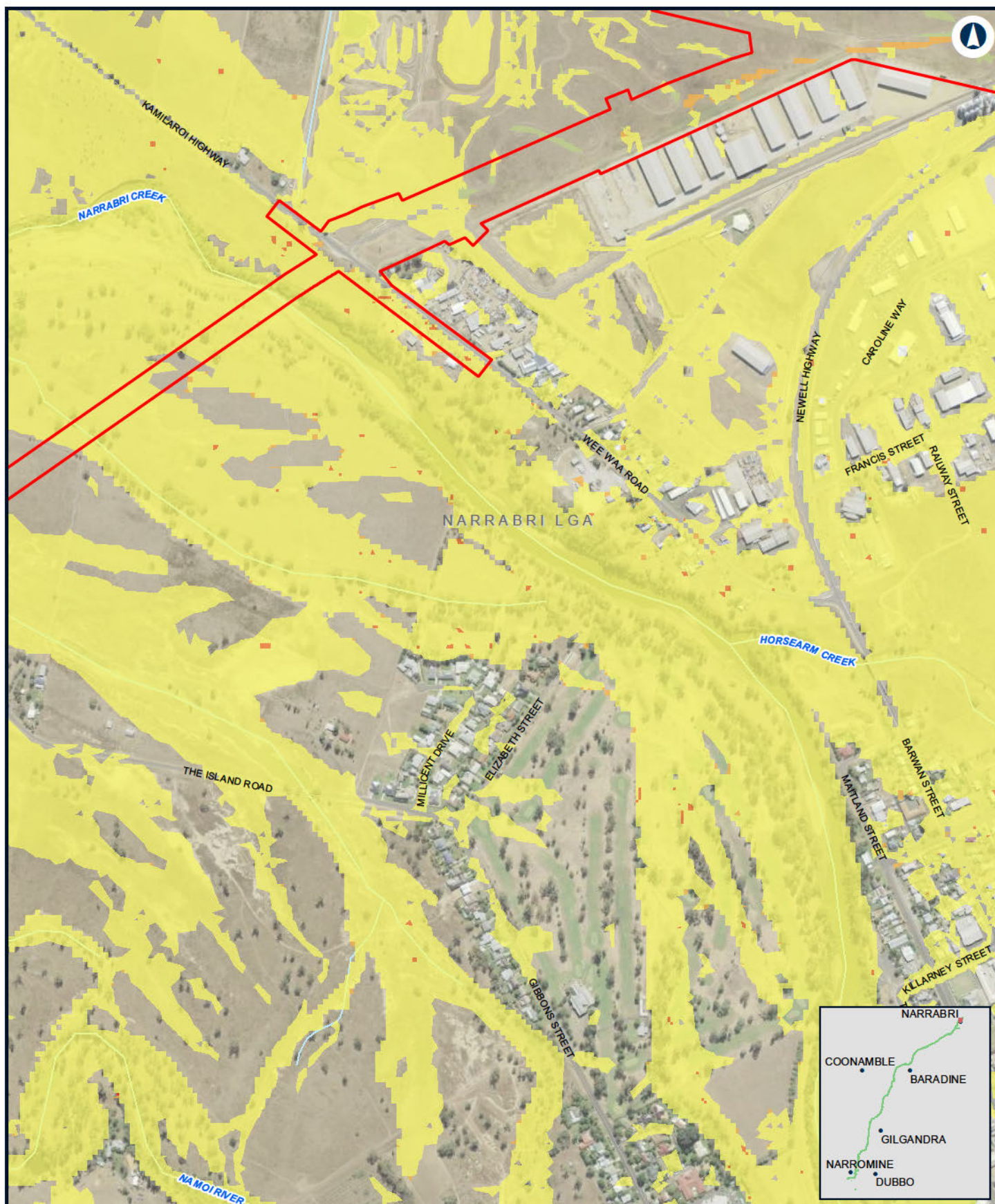
- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.5

0 0.1 0.2
Km

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: A4
Scale: 1:10,000

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

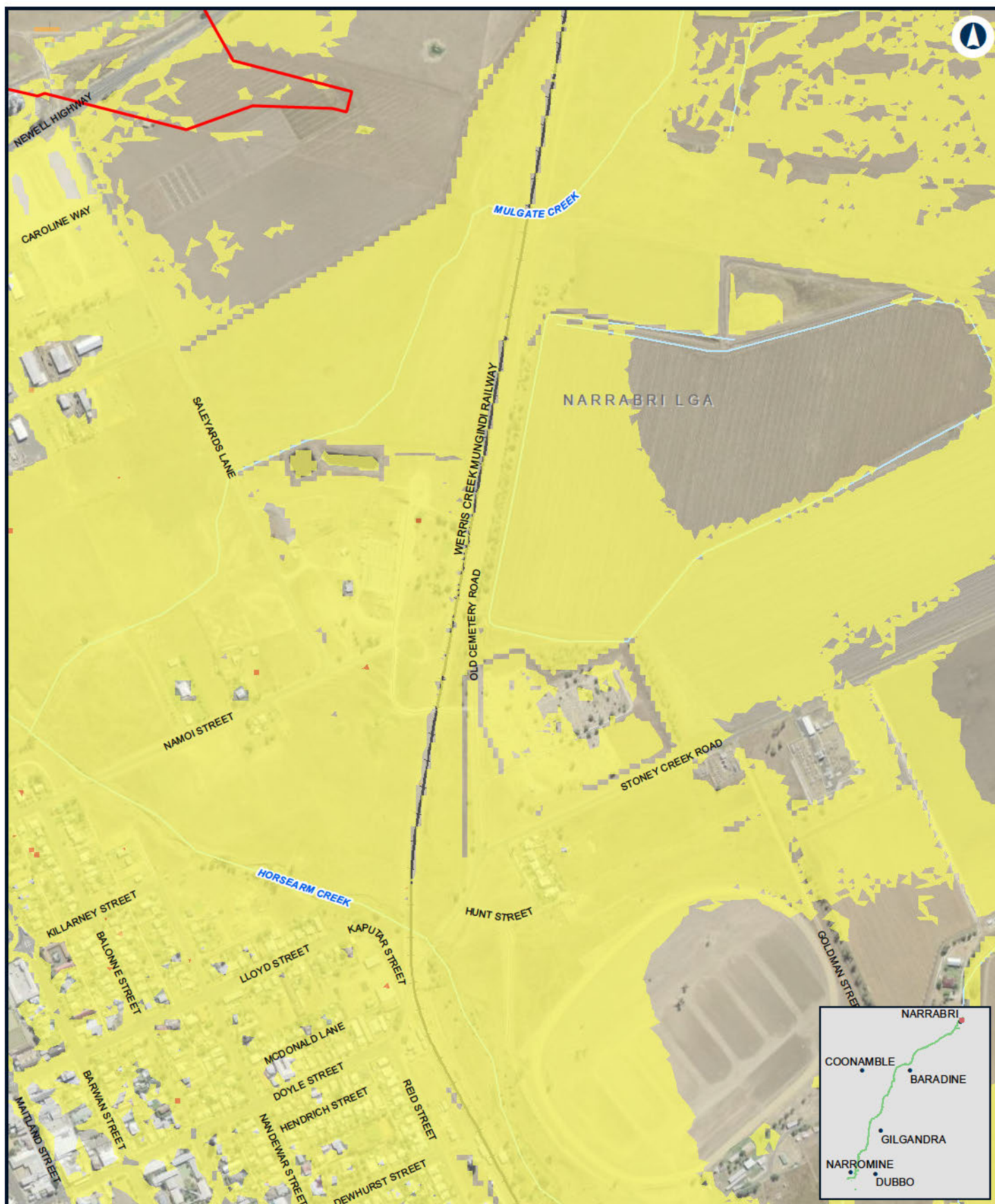
- Was high, now low
- Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.6

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.7

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.8

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry

Was high, now low

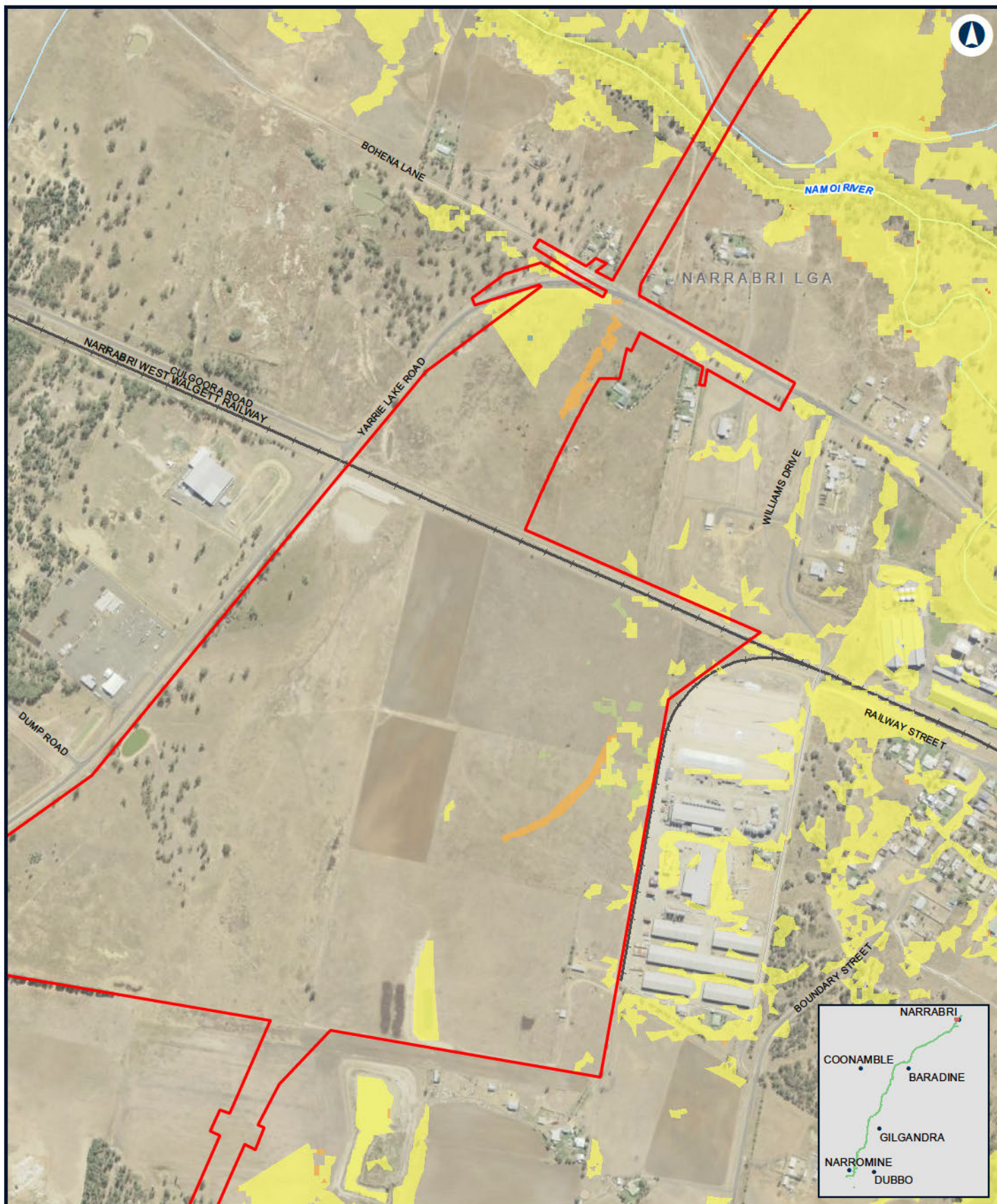
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARRABRI TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.9

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARRABRI TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.10

0 0.1 0.2
Km

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

**INLAND
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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.11

0 0.1 0.2
Km

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Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

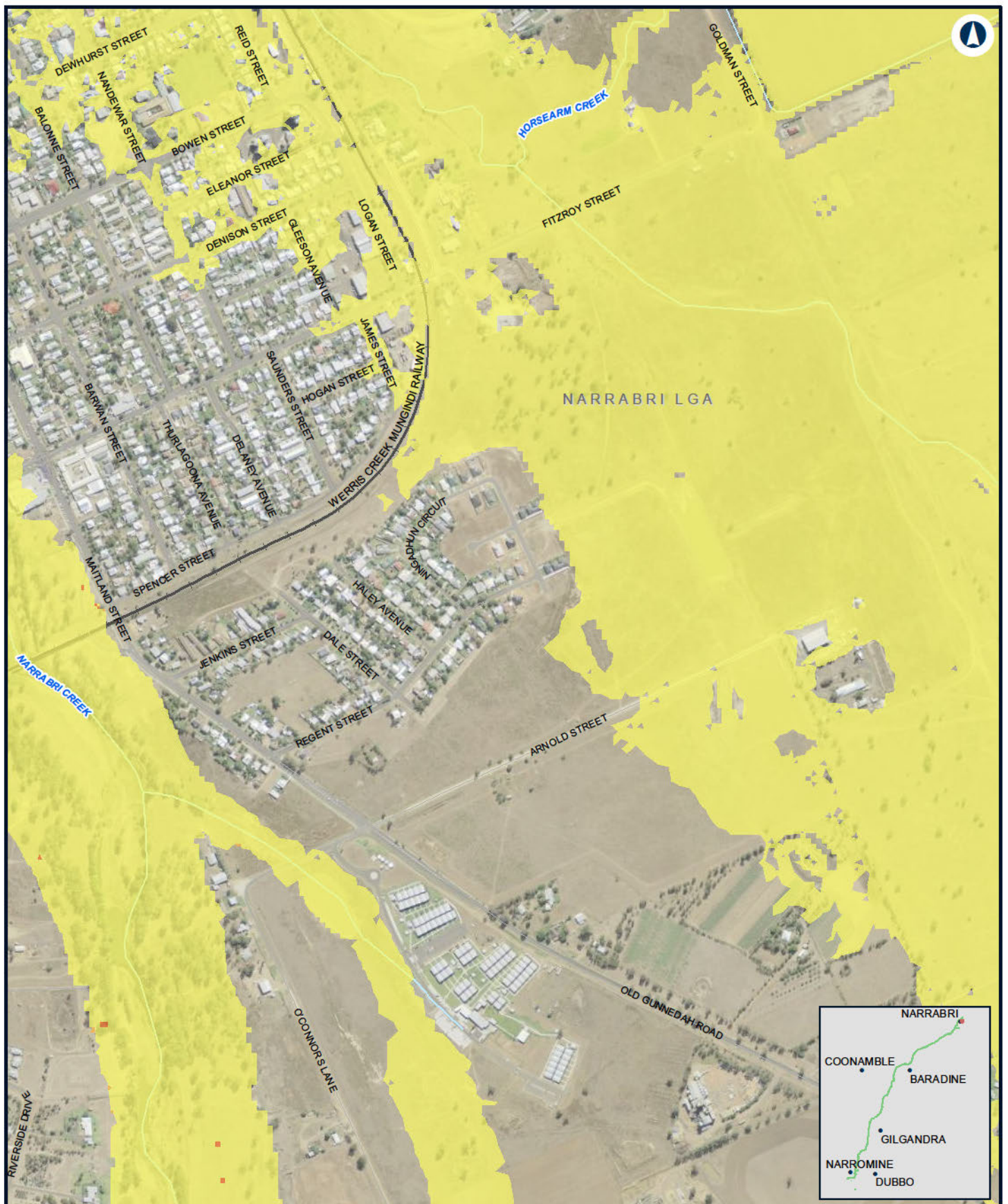
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.12

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

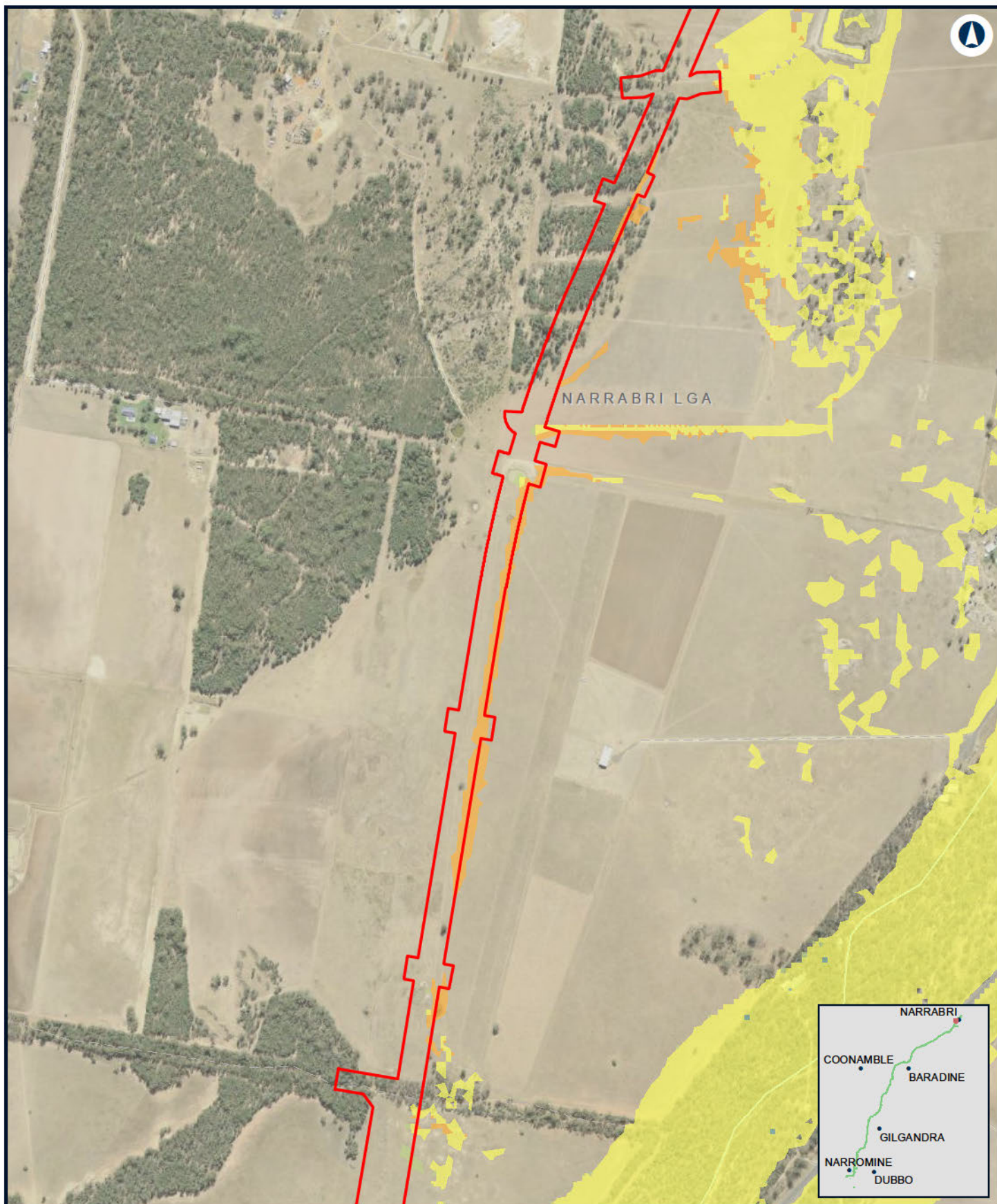
- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

■ Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.13

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

Hazard Change

Was dry, now high

Was low, now high

Was dry, now low

Unchanged

Was low, now dry

Was high, now low

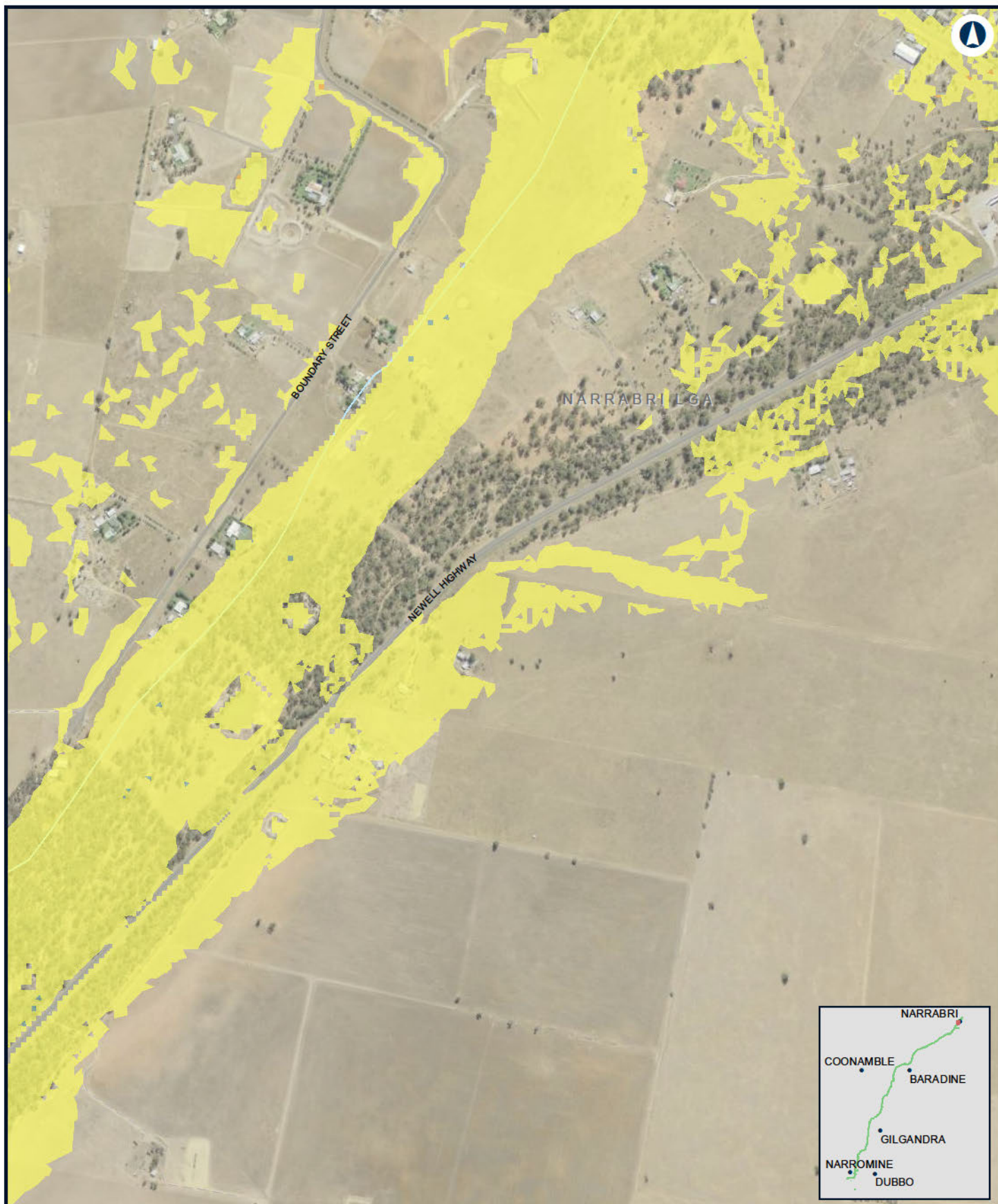
Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.14

0 0.1 0.2
Km

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LEGEND

Hazard Change

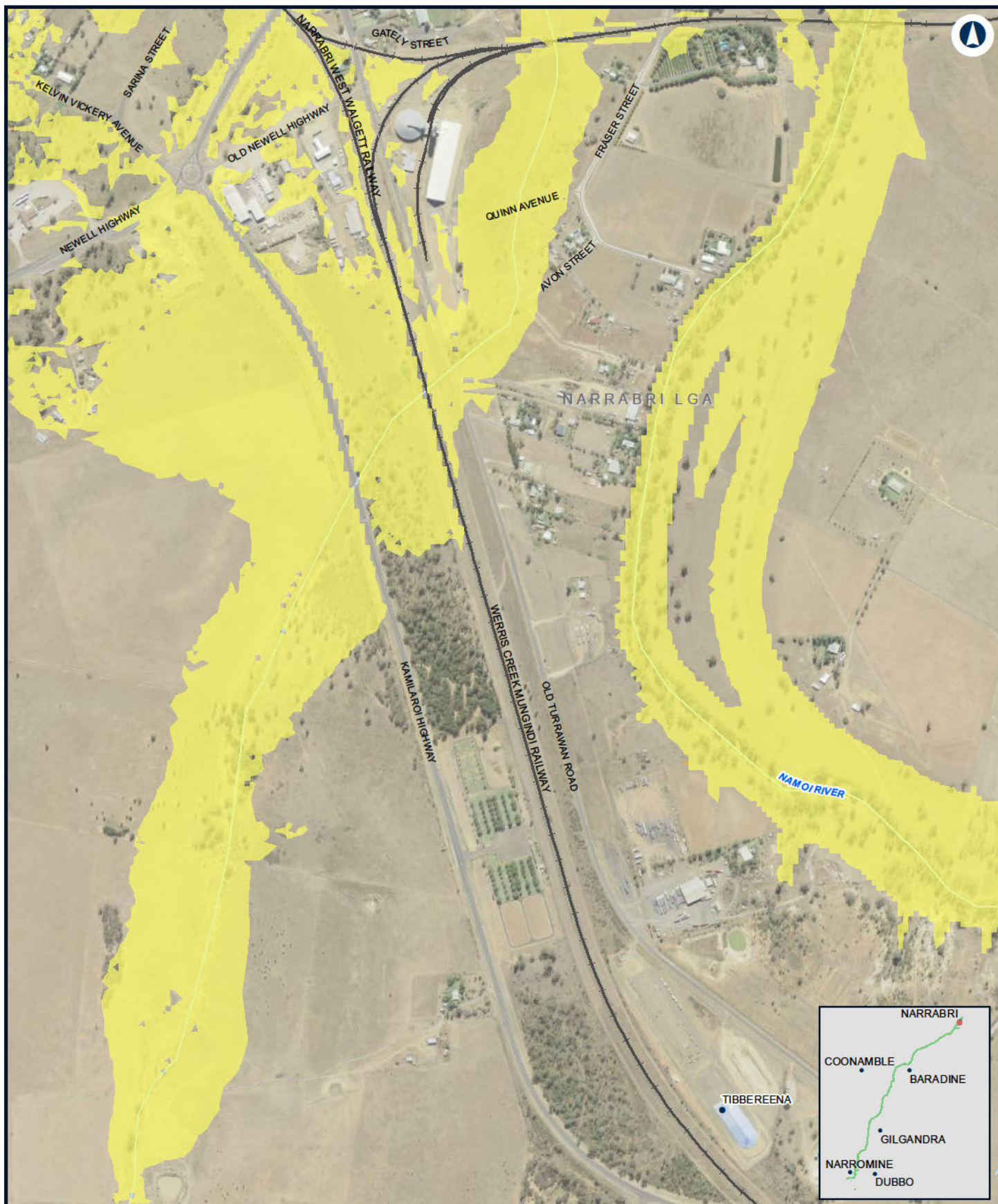
- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

■ Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.15

0 0.1 0.2
Km

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Date: 10/08/2022 Paper: A4
Author: JacobsGHD Scale: 1:10,000

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

LEGEND

Hazard Change

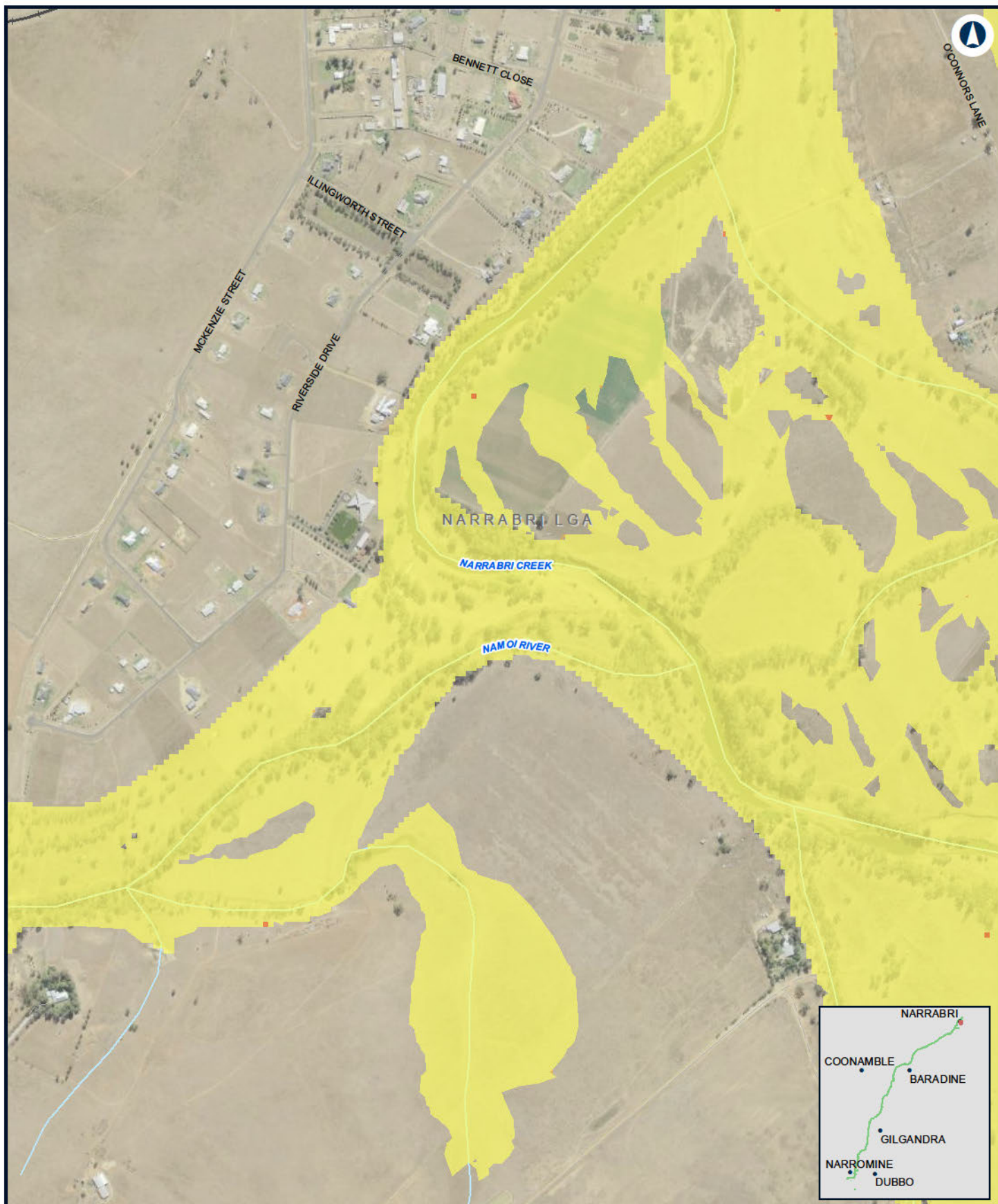
- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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NARROMINE TO NARRABRI

Change in flood hazard - 1% AEP with Blockage - Narrabri Local

Appendix A - Figure 2.4.16

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 10/08/2022

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

Hazard Change

- Was dry, now high
- Was low, now high
- Was dry, now low
- Unchanged
- Was low, now dry
- Was high, now low

Was high, now dry

Low hazard includes hazard categories 1 and 2.
High hazard includes hazard categories 3, 4, 5 and 6.

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