

TECHNICAL REPORT

INLAND
RAIL 

3

Flooding and hydrology assessment

PART 12 OF 12

Appendix H

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT

ARTC

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

TECHNICAL REPORT

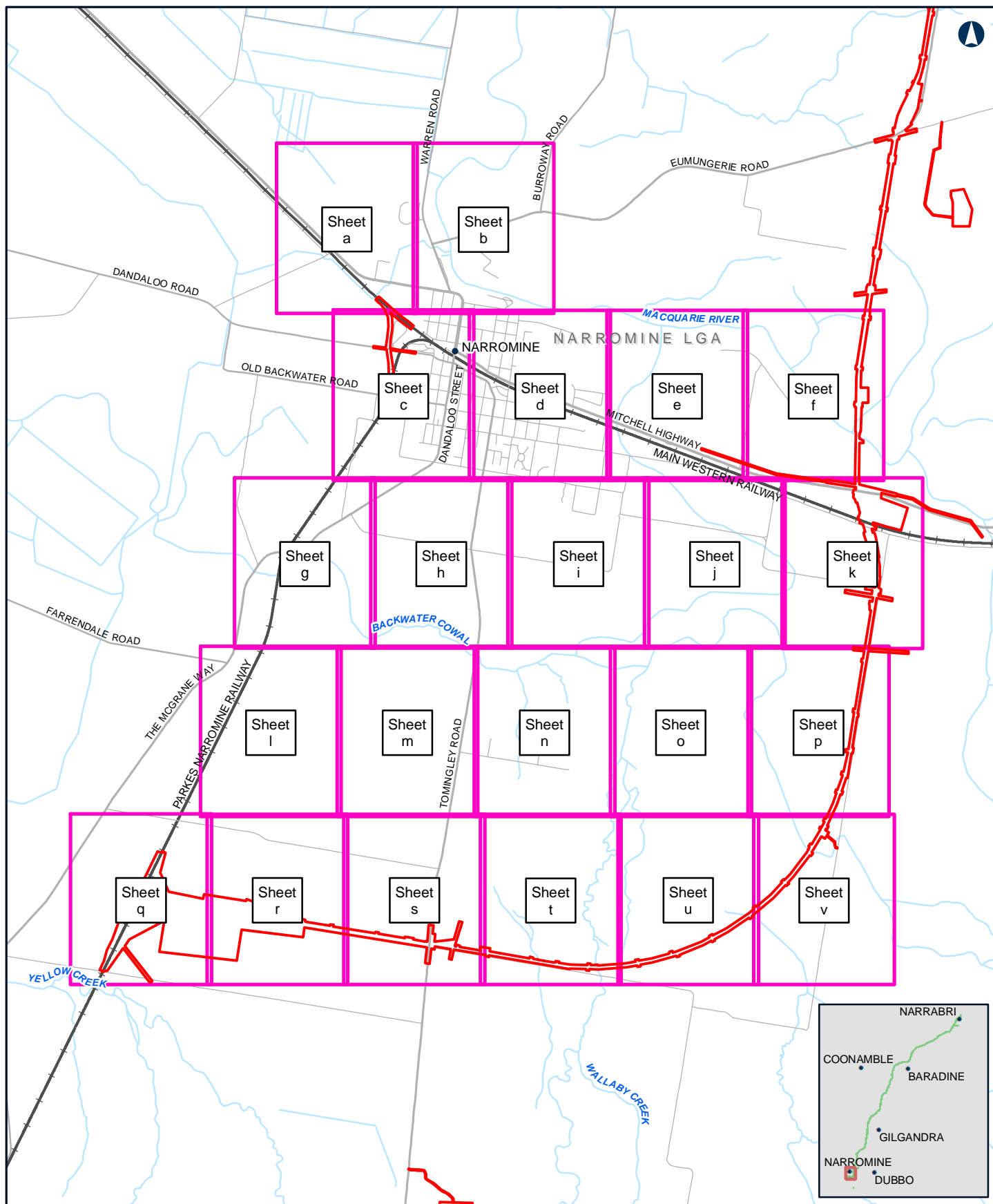
3

Flooding and hydrology assessment

Appendix H Detailed operational flood mapping for Narromine and Narrabri

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT





NARROMINE TO NARRABRI

Map index sheet - Narromine

Appendix H - Index Sheet 1

0 0.95 1.9
Km

LEGEND

The proposal site

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

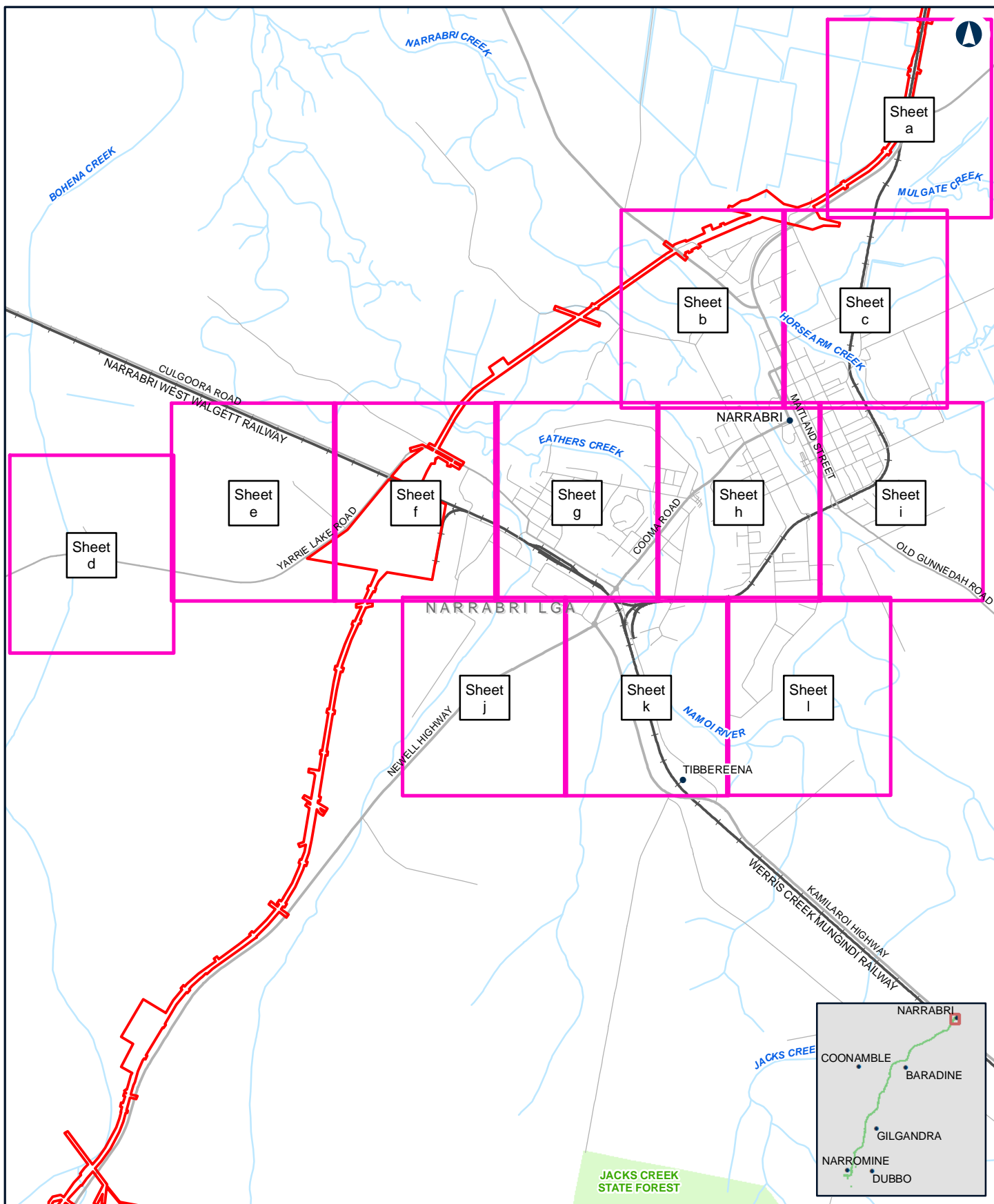
Author: JacobsGHD

Scale: 1:70,000

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

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NARROMINE TO NARRABRI

Map index sheet - Narrabri

Appendix H - Index Sheet 2

0 0.85 1.7
Km

LEGEND

The proposal site

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Paper: A4

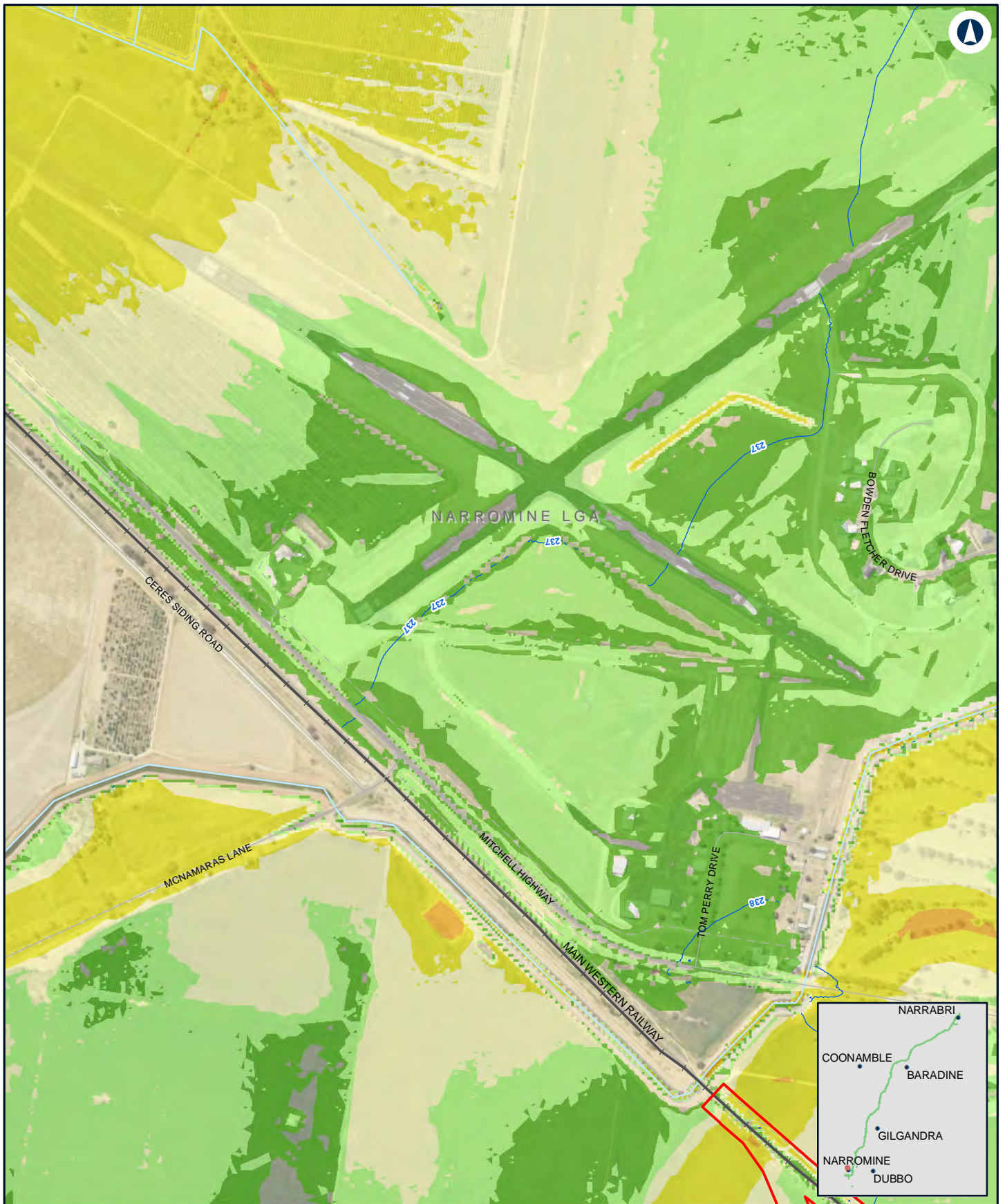
Author: JacobsGHD

Scale: 1:60,000

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

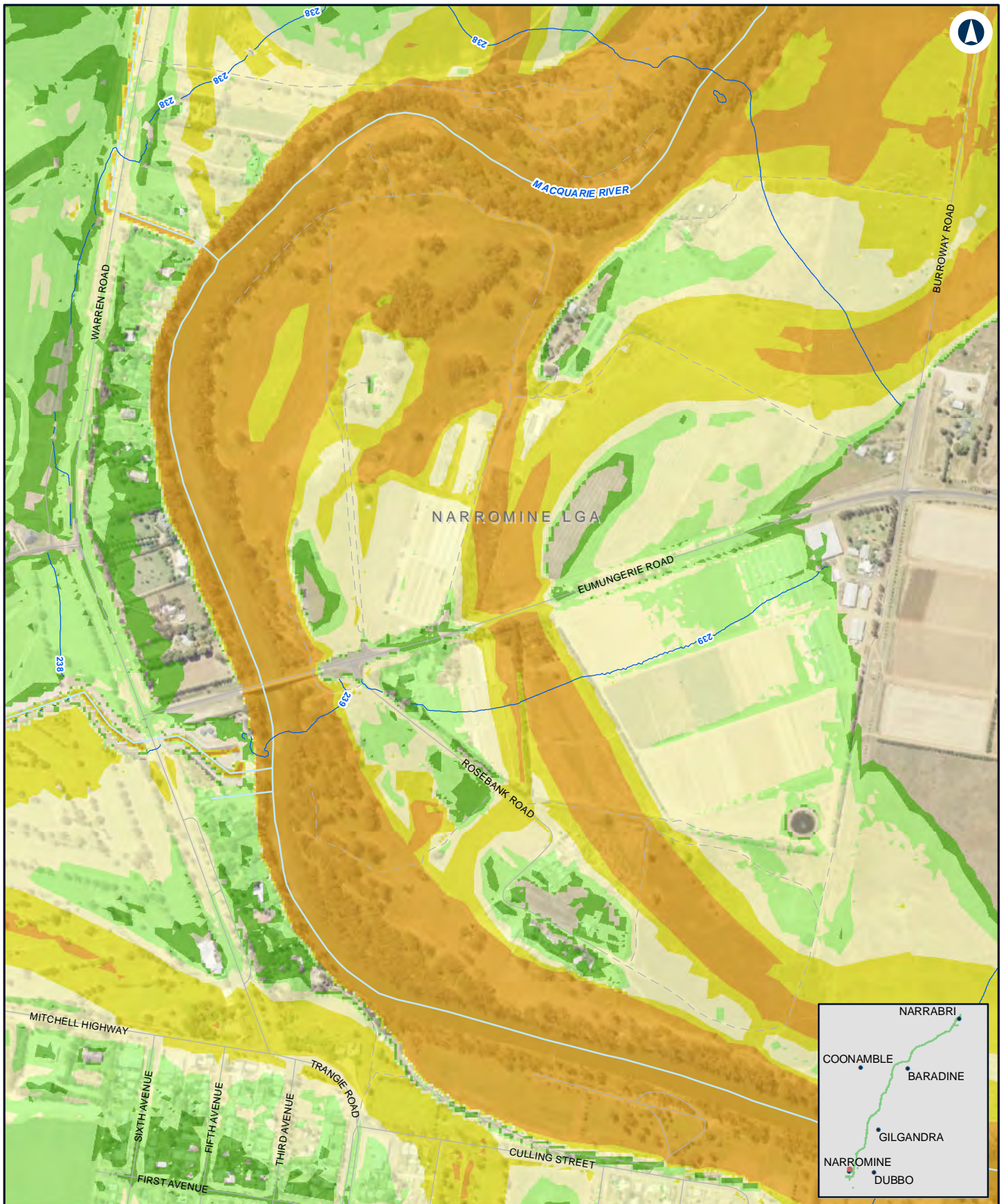
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1b

0 0.1 0.2
Km

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

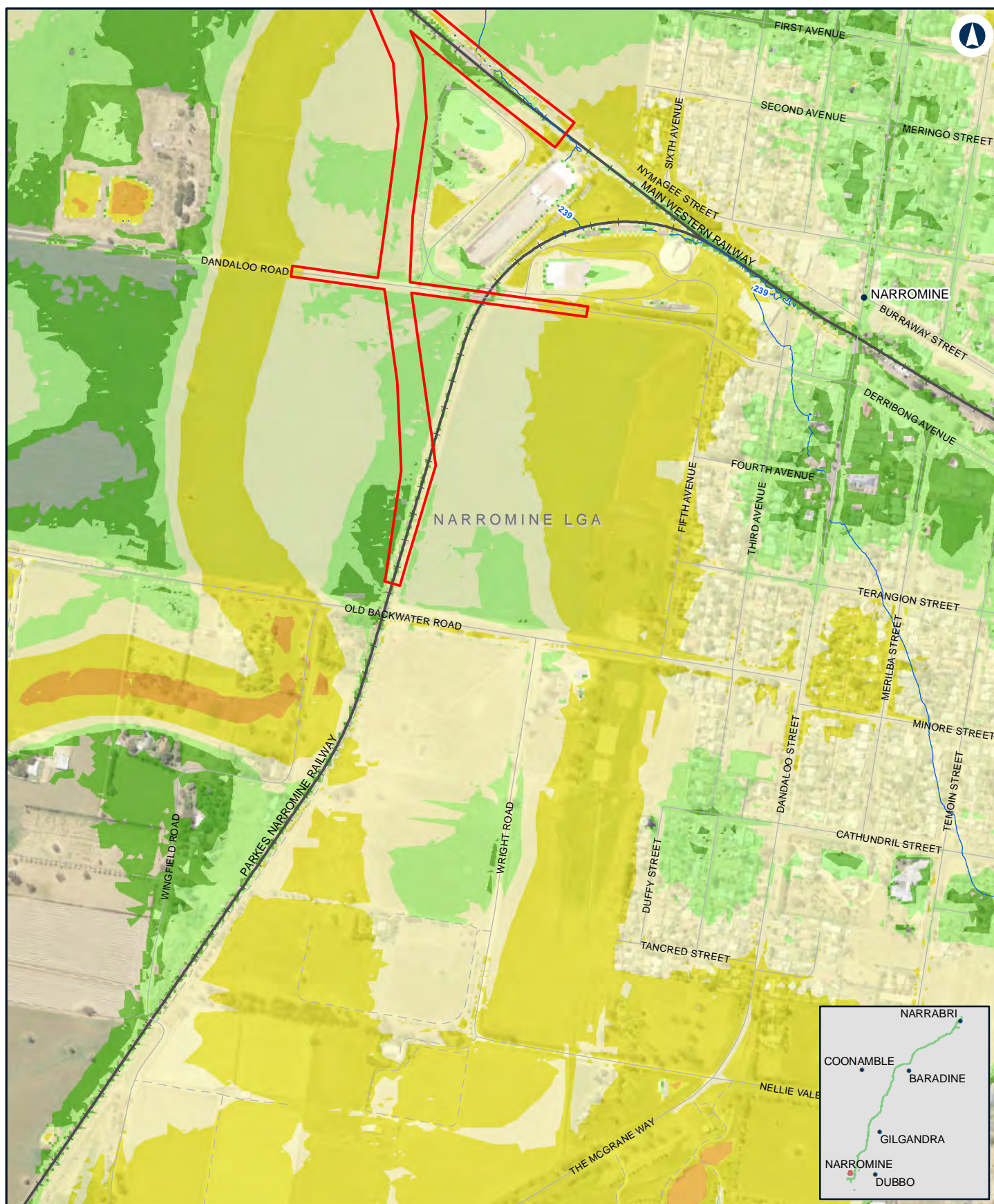
— Flood level (mAHD)

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1c

0 0.1 0.2
Km

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

 The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

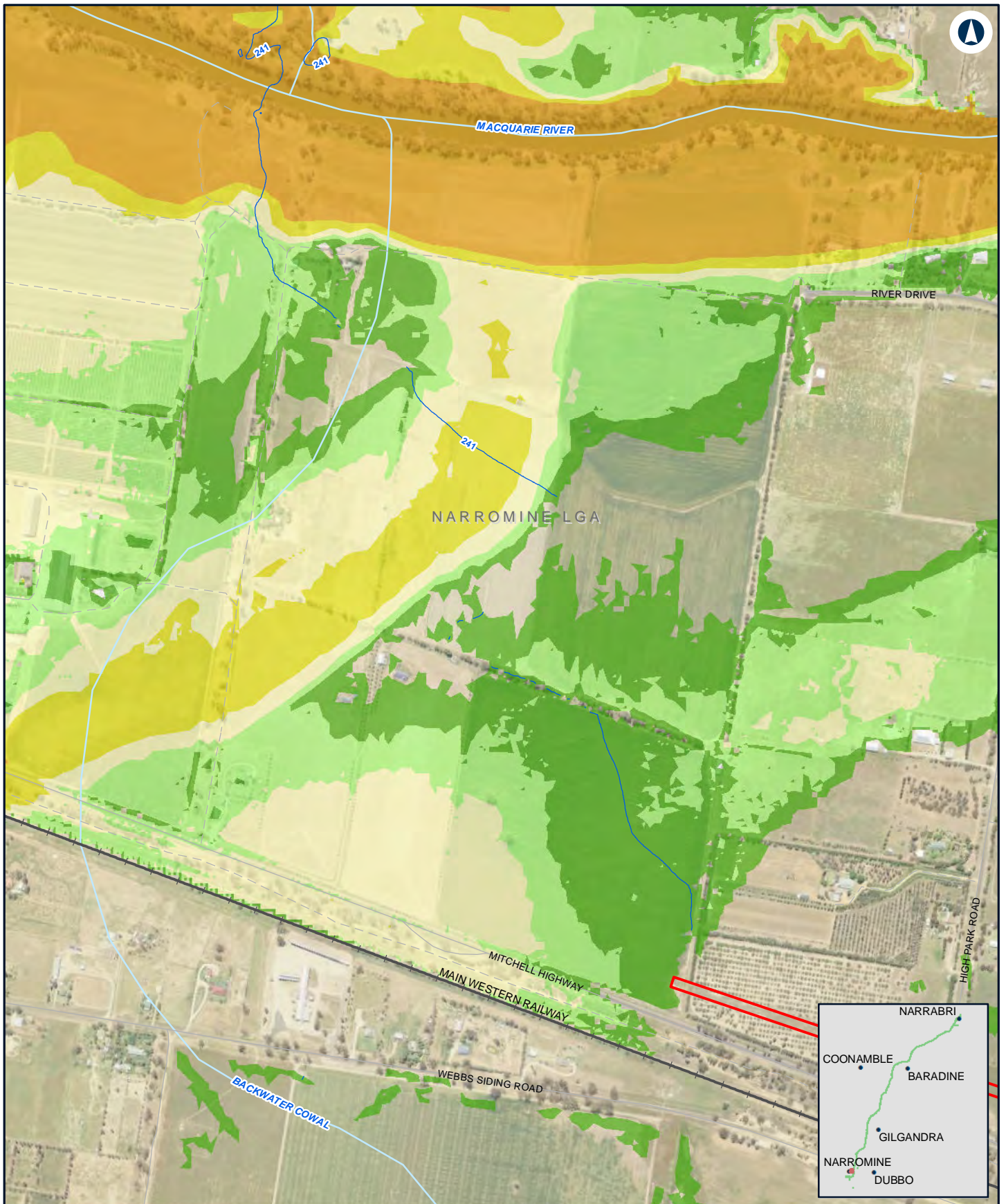
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1e

0 0.1 0.2
Km

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

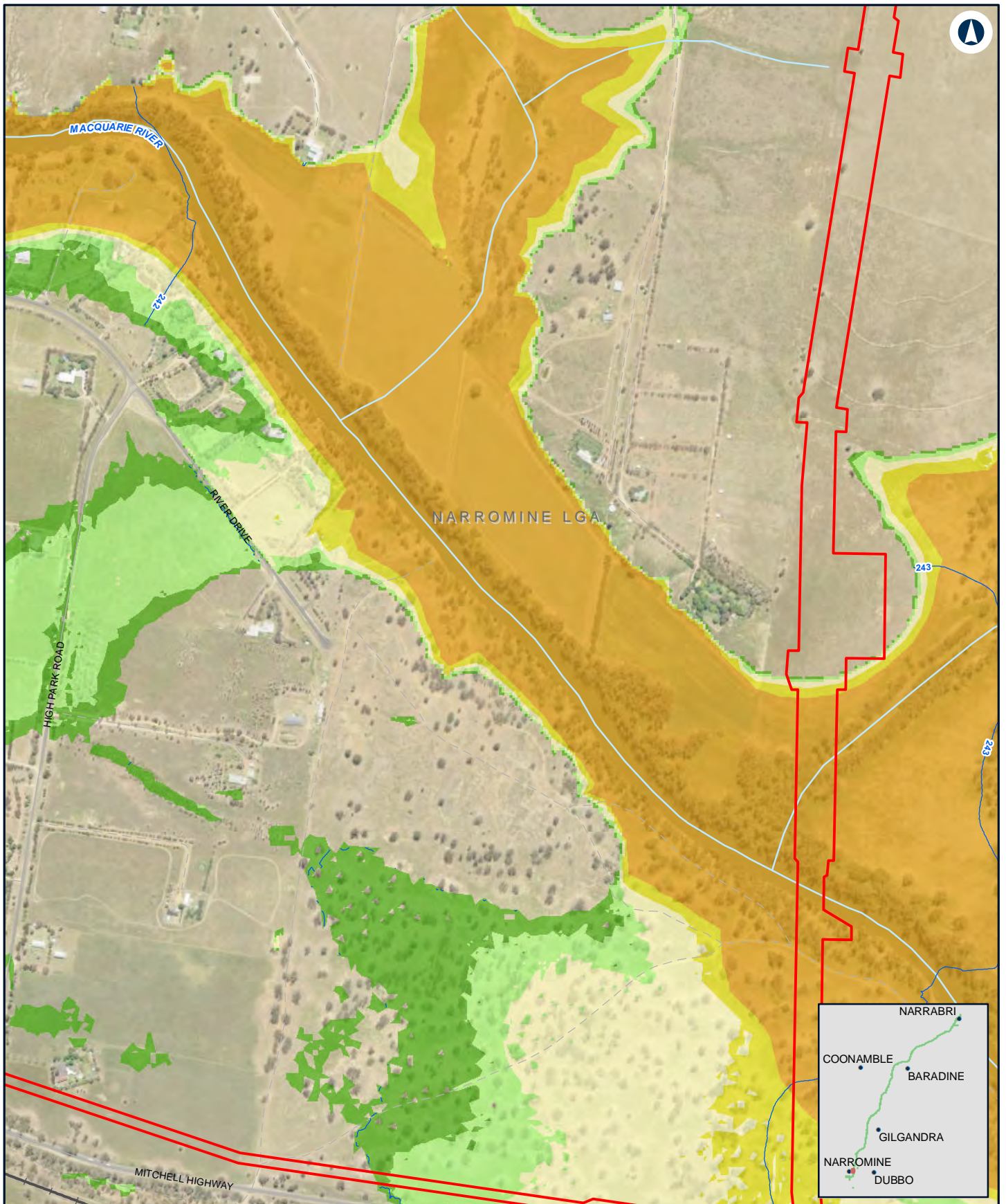
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1f

0 0.1 0.2
Km

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

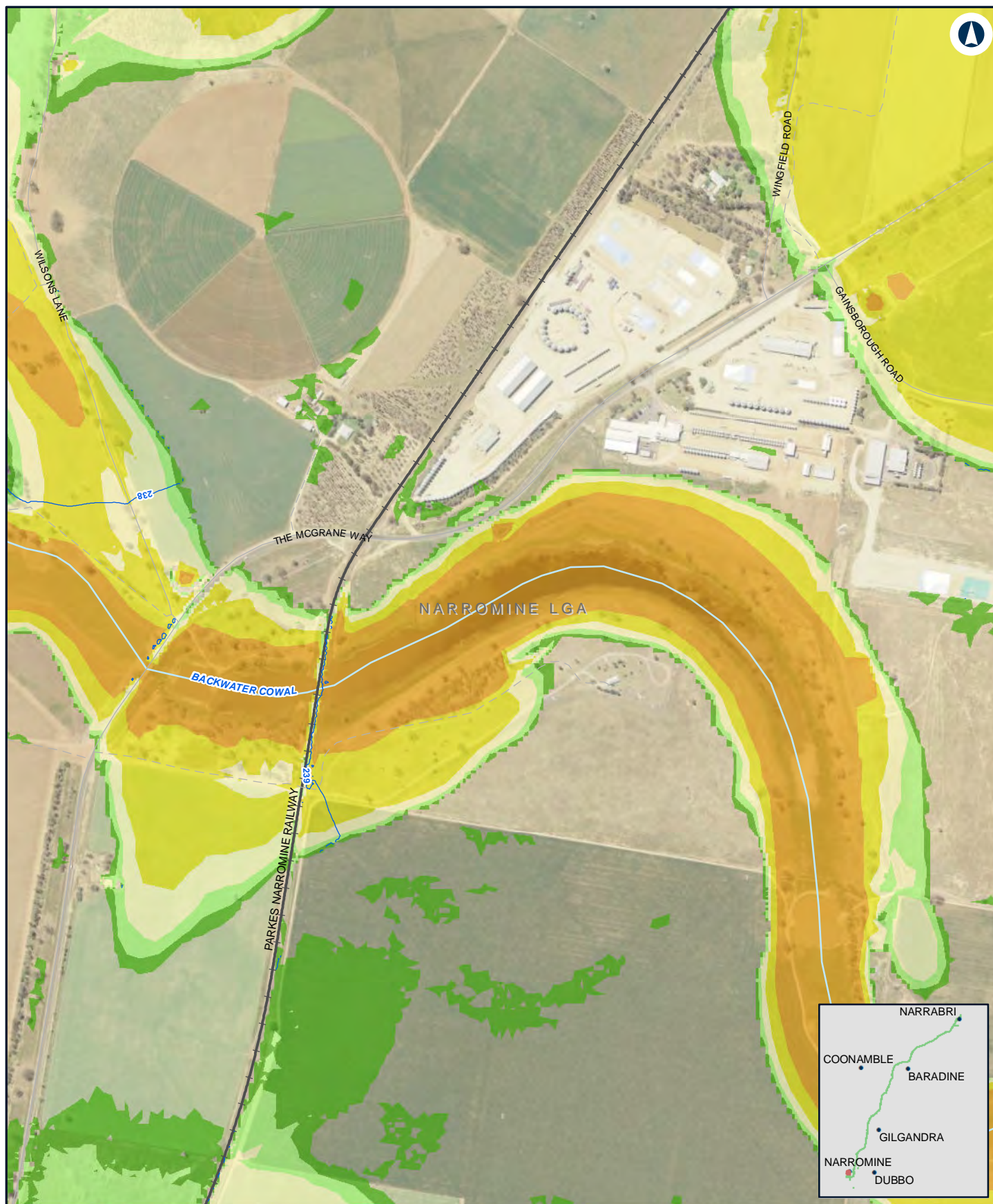
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1g

0 0.1 0.2
Km

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

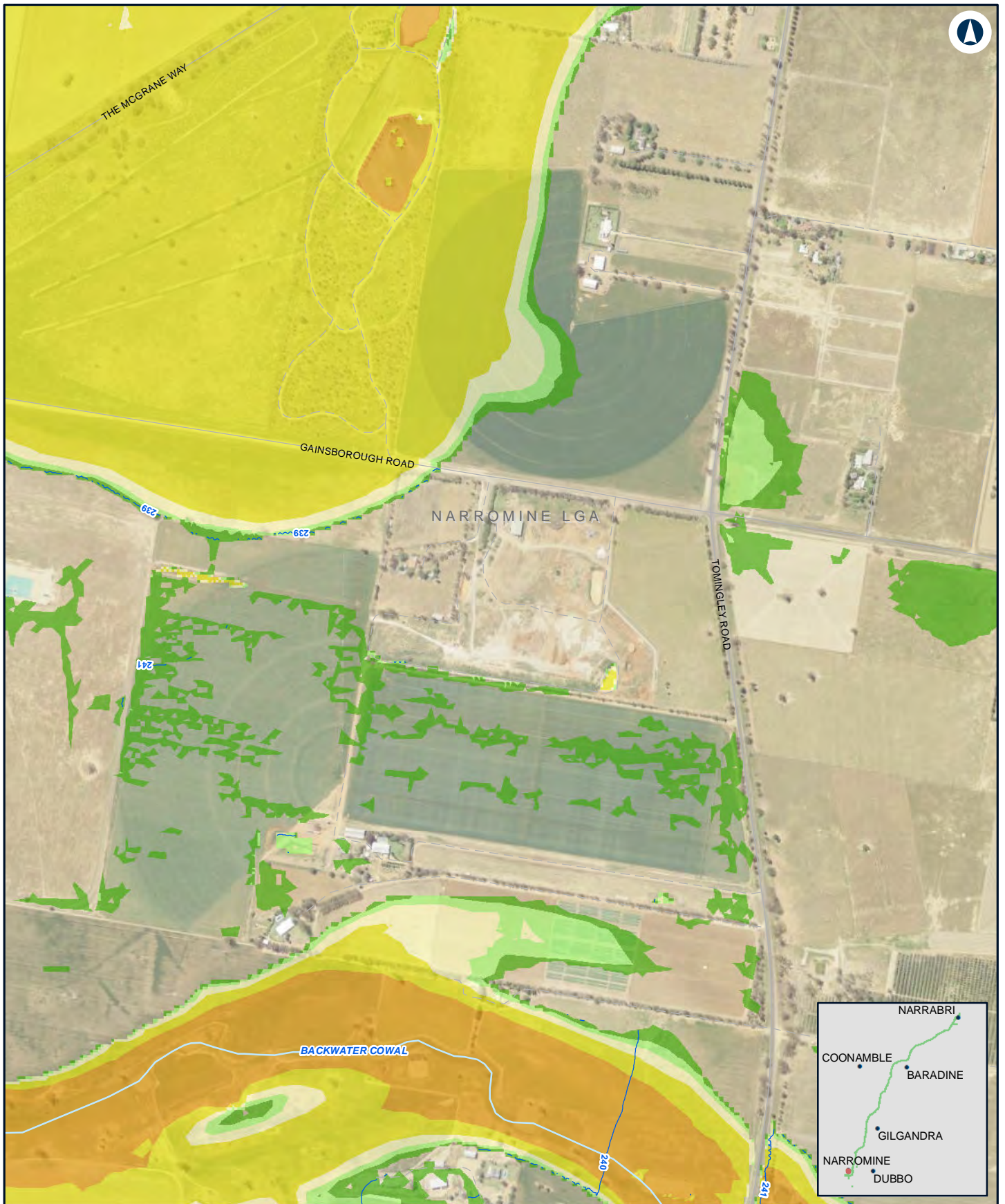
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1h

0 0.1 0.2
Km

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1i

0 0.1 0.2
Km

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

LEGEND

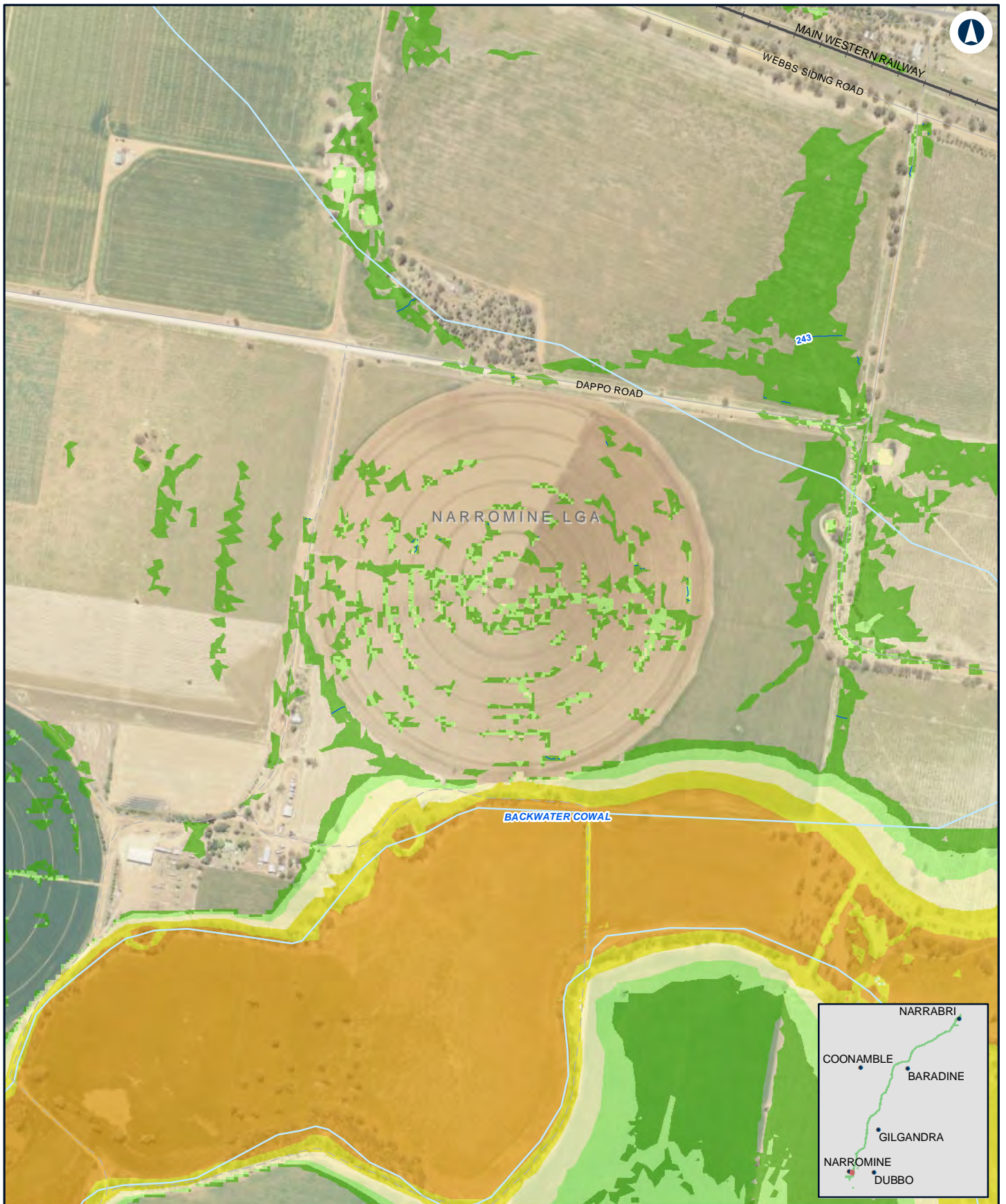
— Flood level (mAHD)

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1j

0 0.1 0.2
Km

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

LEGEND

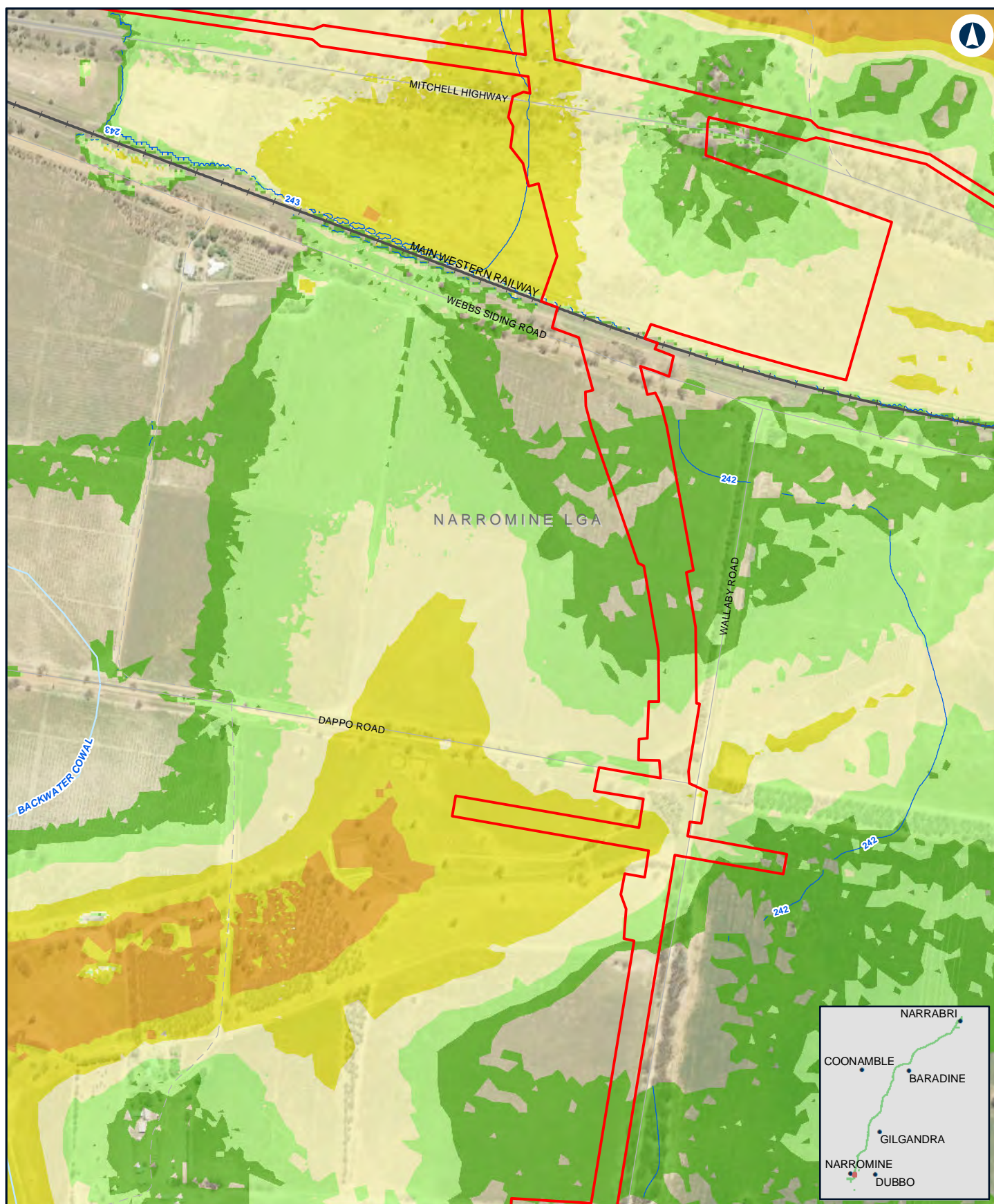
— Flood level (mAHD)

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1k

0 0.1 0.2
Km

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Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

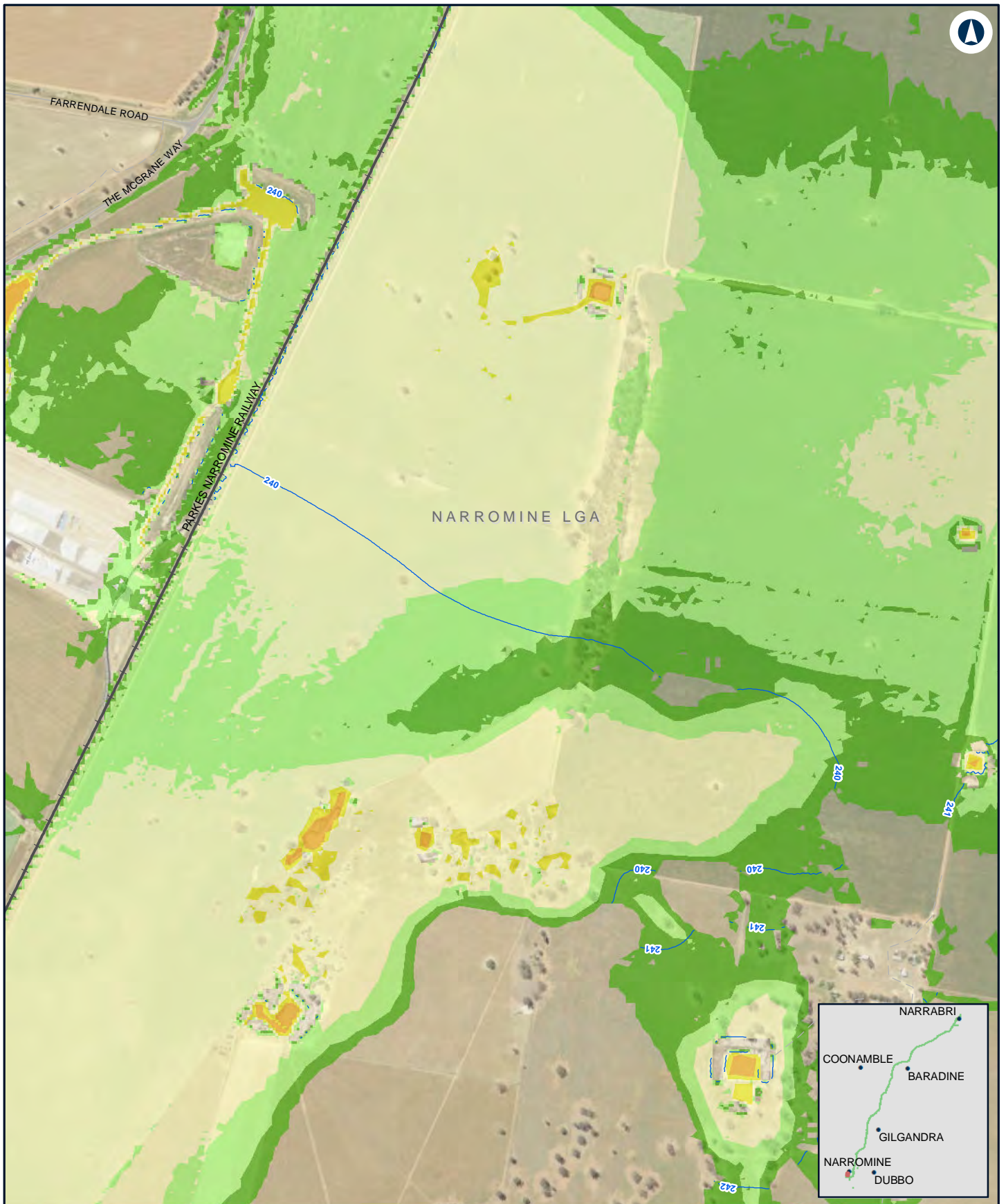
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1I

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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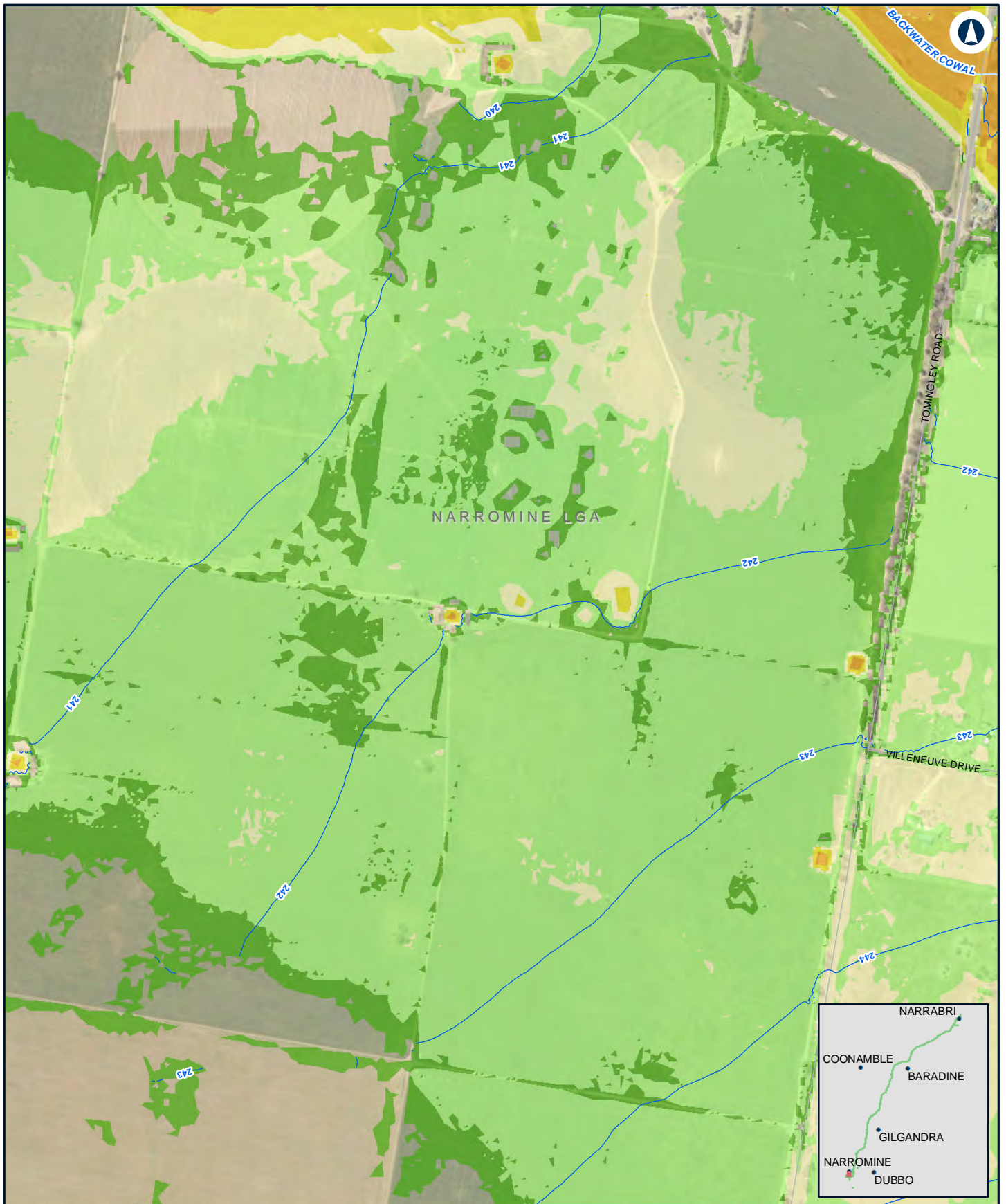
— Flood level (mAHD)

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1m

0 0.1 0.2
Km

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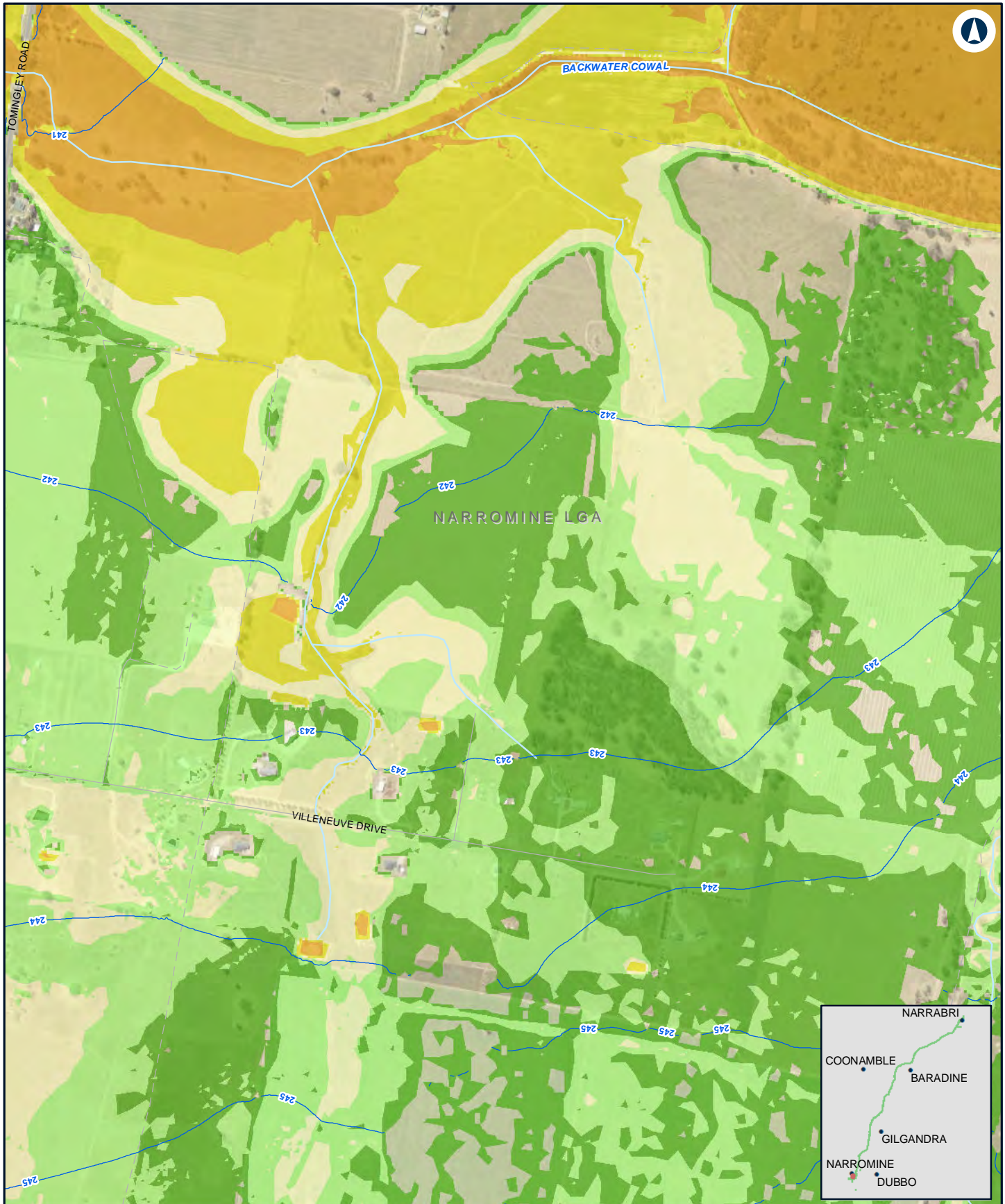
— Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

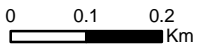
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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1n

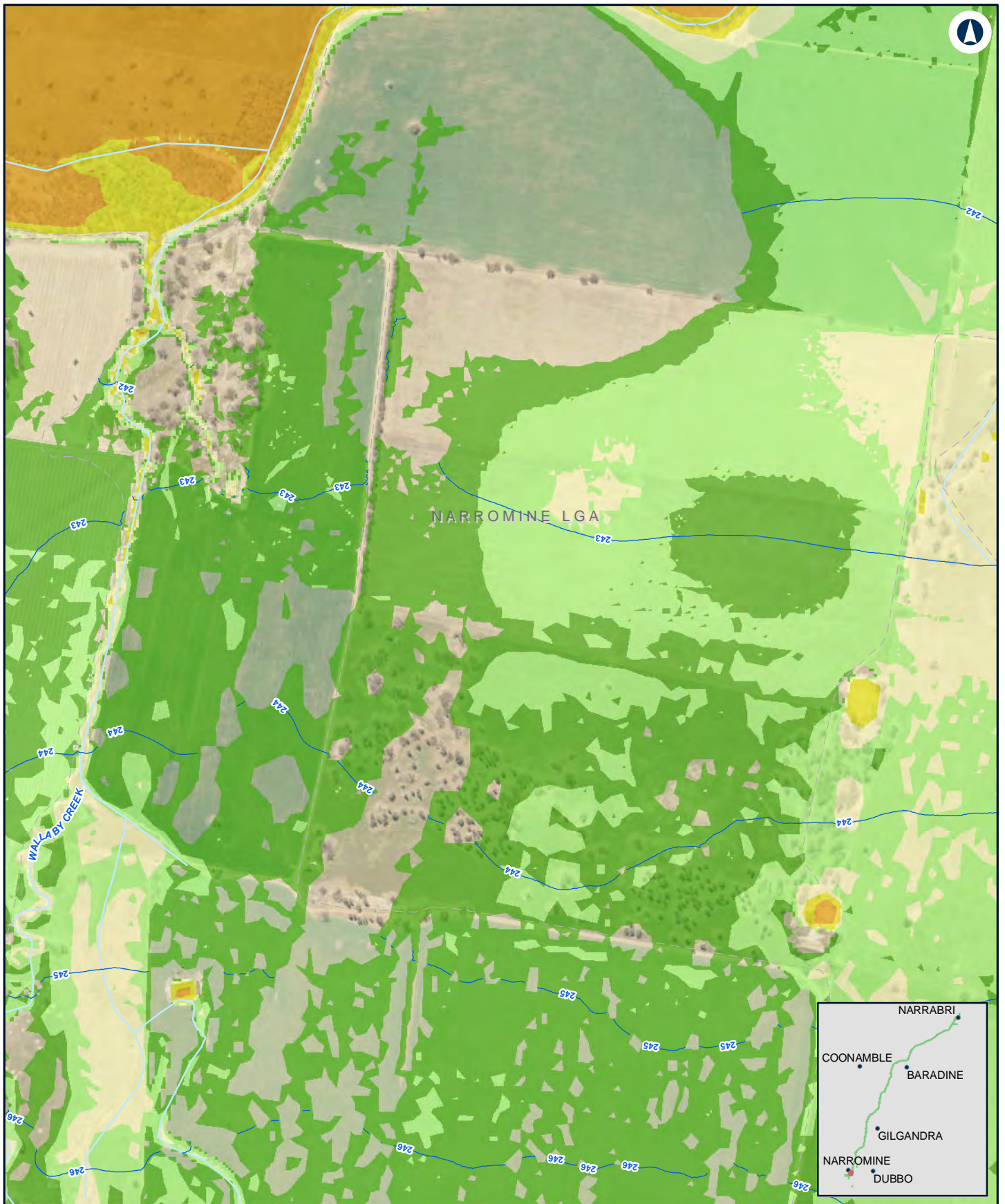


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 Author: JacobsGHD Scale: 1:10,000
 Data Sources: Basemap layers: NSWSS;

- LEGEND**
- Flood level (mAHD)
 - 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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1o

0 0.1 0.2
Km

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Data Sources: Basemap layers: NSWSS;

LEGEND

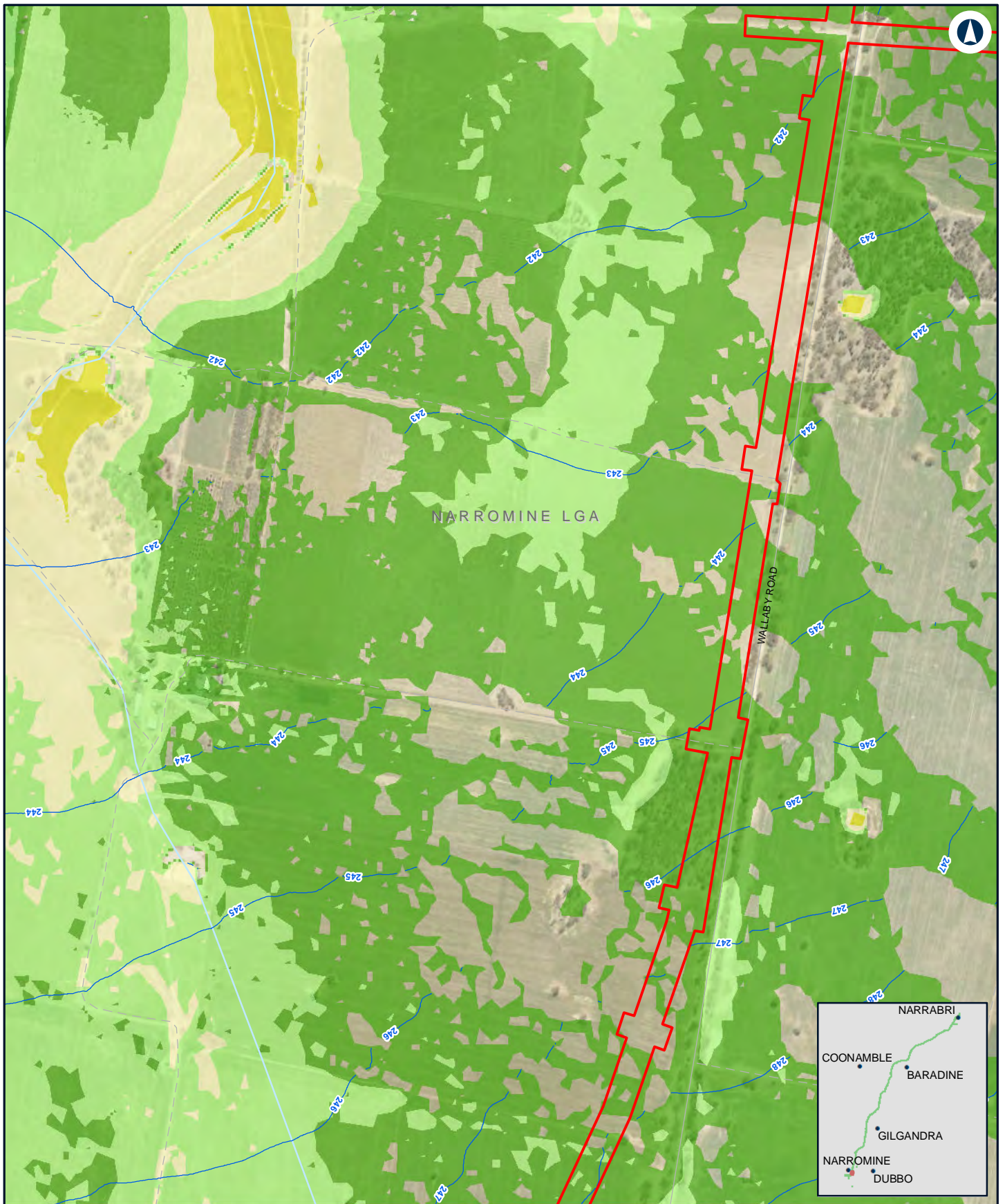
— Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1p

0 0.1 0.2
Km

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Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

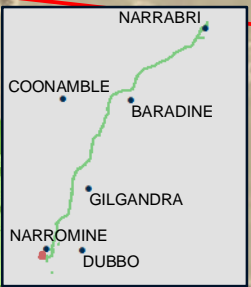
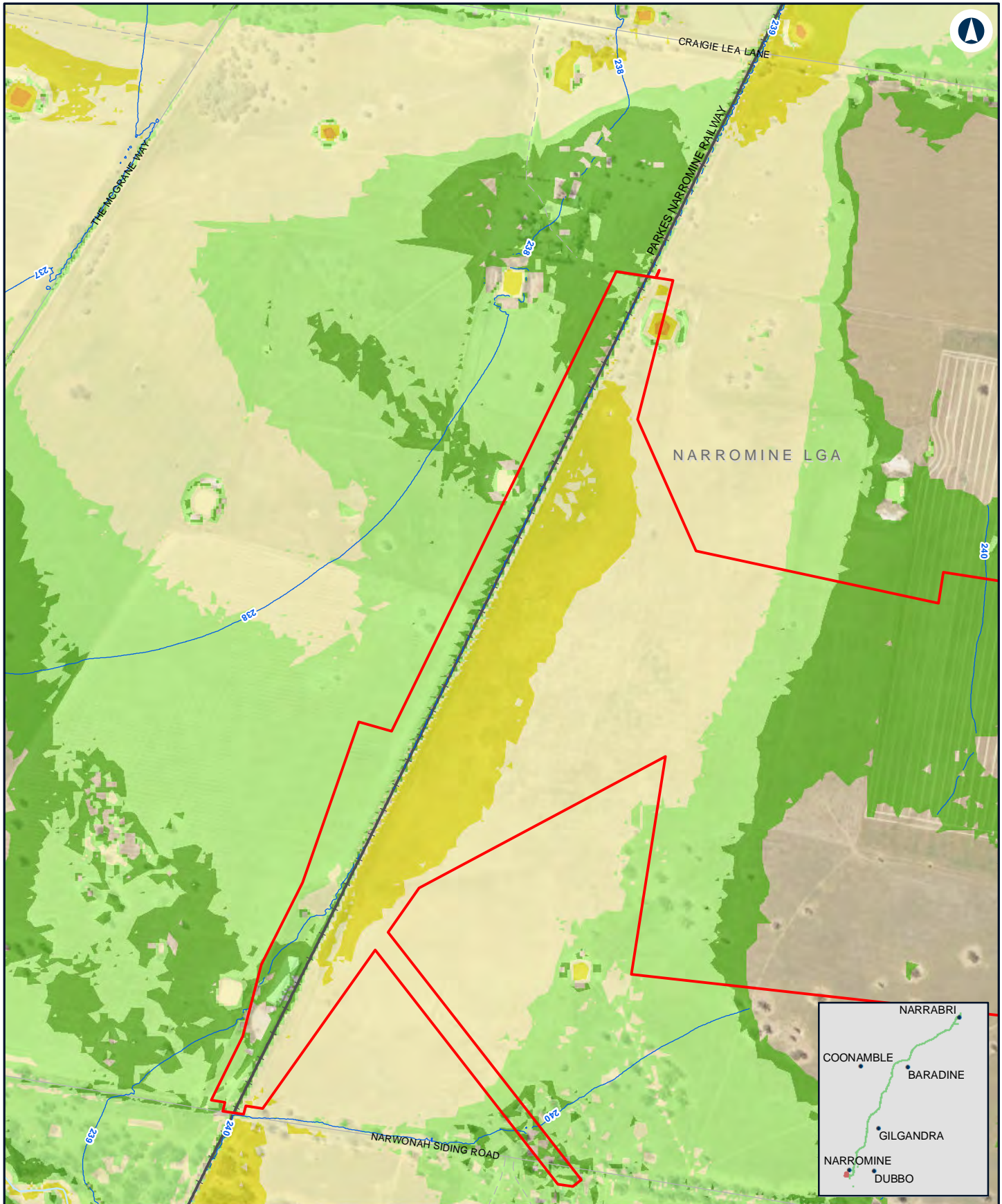
- The proposal site
- Flood level (mAHD)

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1q

0 0.1 0.2
Km

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Date: 6/11/2020
Author: JacobsGHD
Data Sources: Basemap layers: NSWSS;

Paper: A4
Scale: 1:10,000

LEGEND

The proposal site

Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

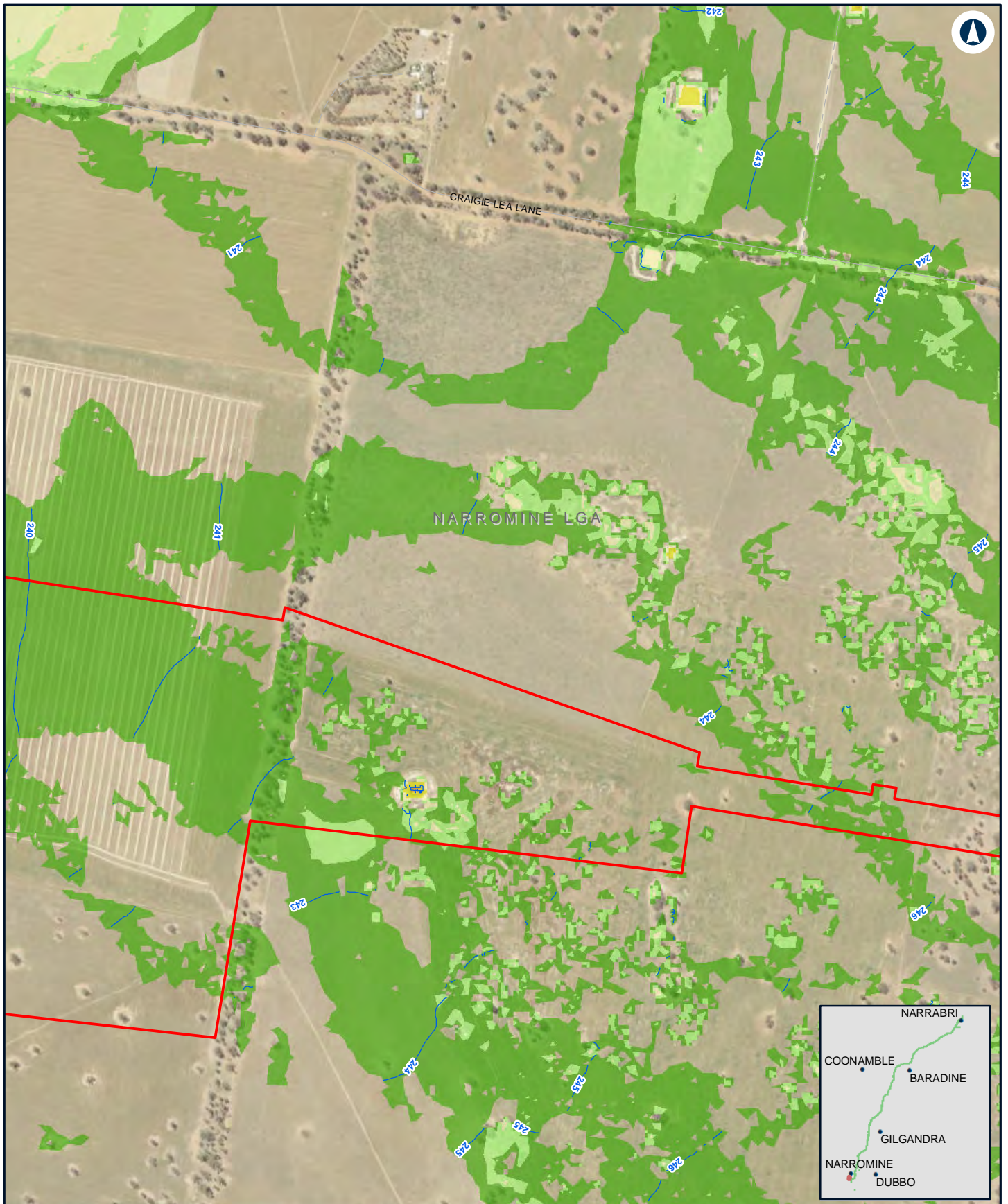
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1r

0 0.1 0.2
Km

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

LEGEND

The proposal site > 2.0m

Flood level (mAHD)

Flood depth

0.0m - 0.25m

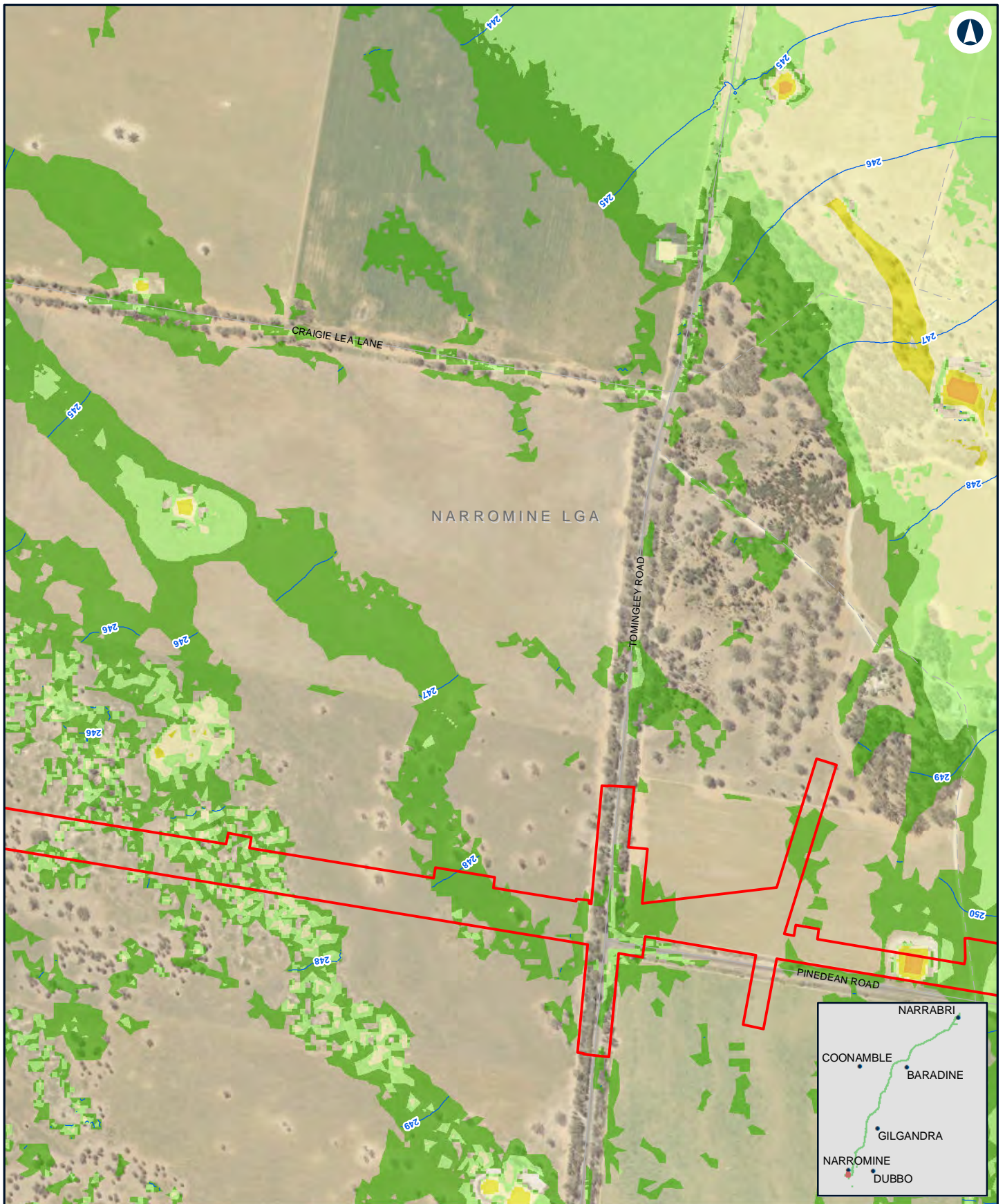
0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1s

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

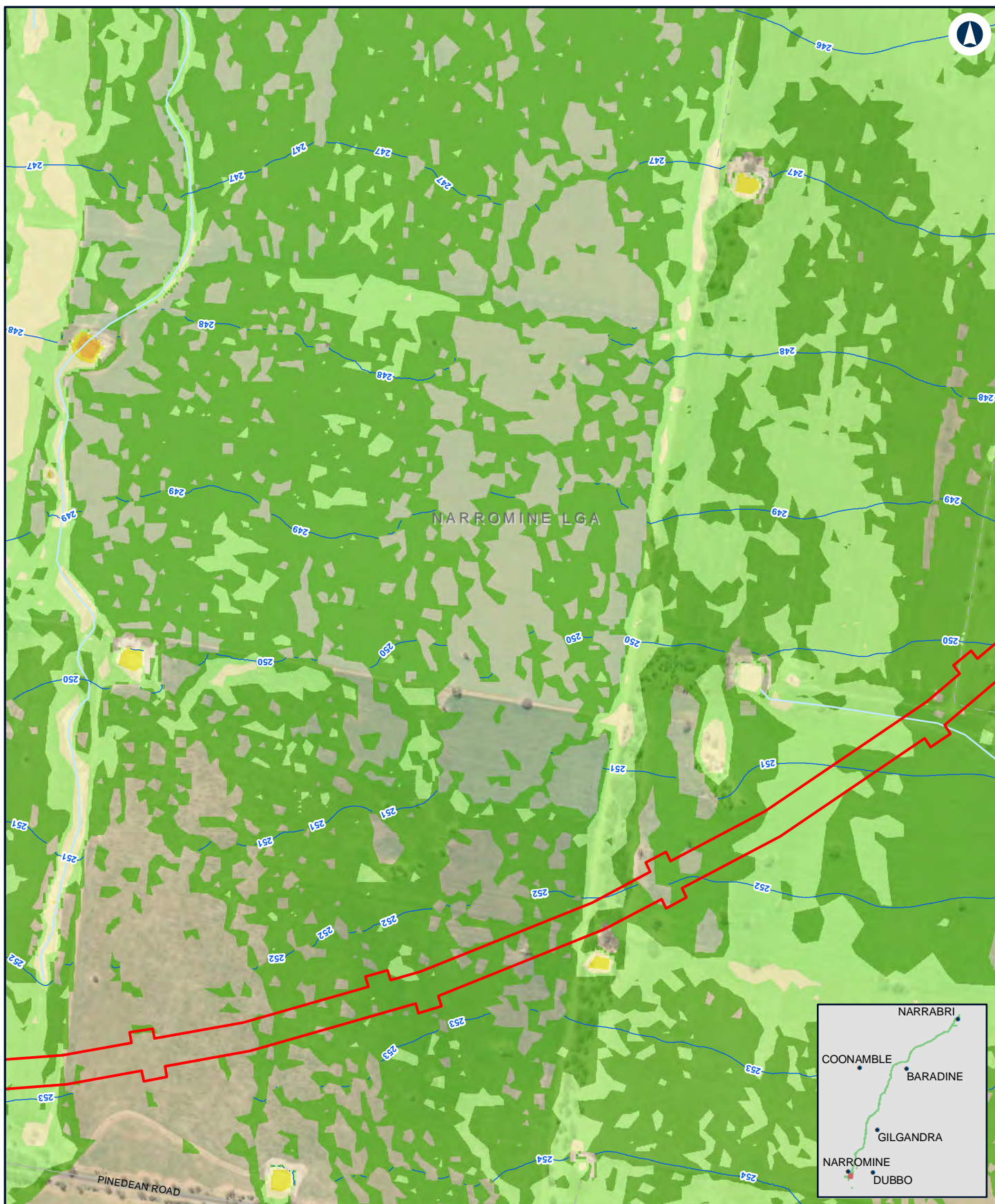
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

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

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1u

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

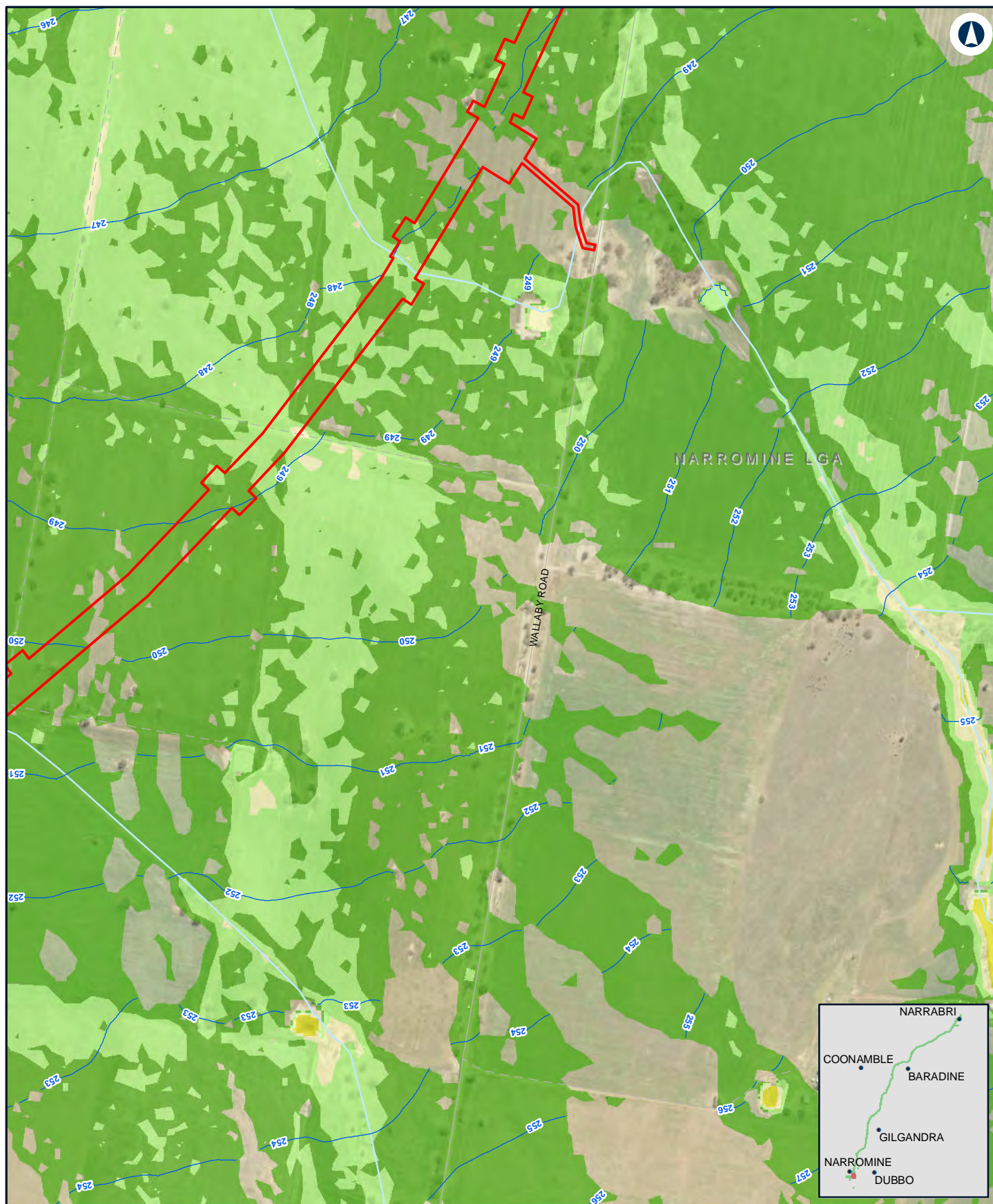
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1v

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

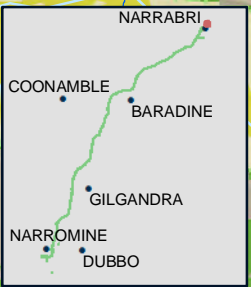
- The proposal site
- Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

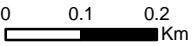
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2a



Coordinate System: GDA 1994 MGA Zone 55

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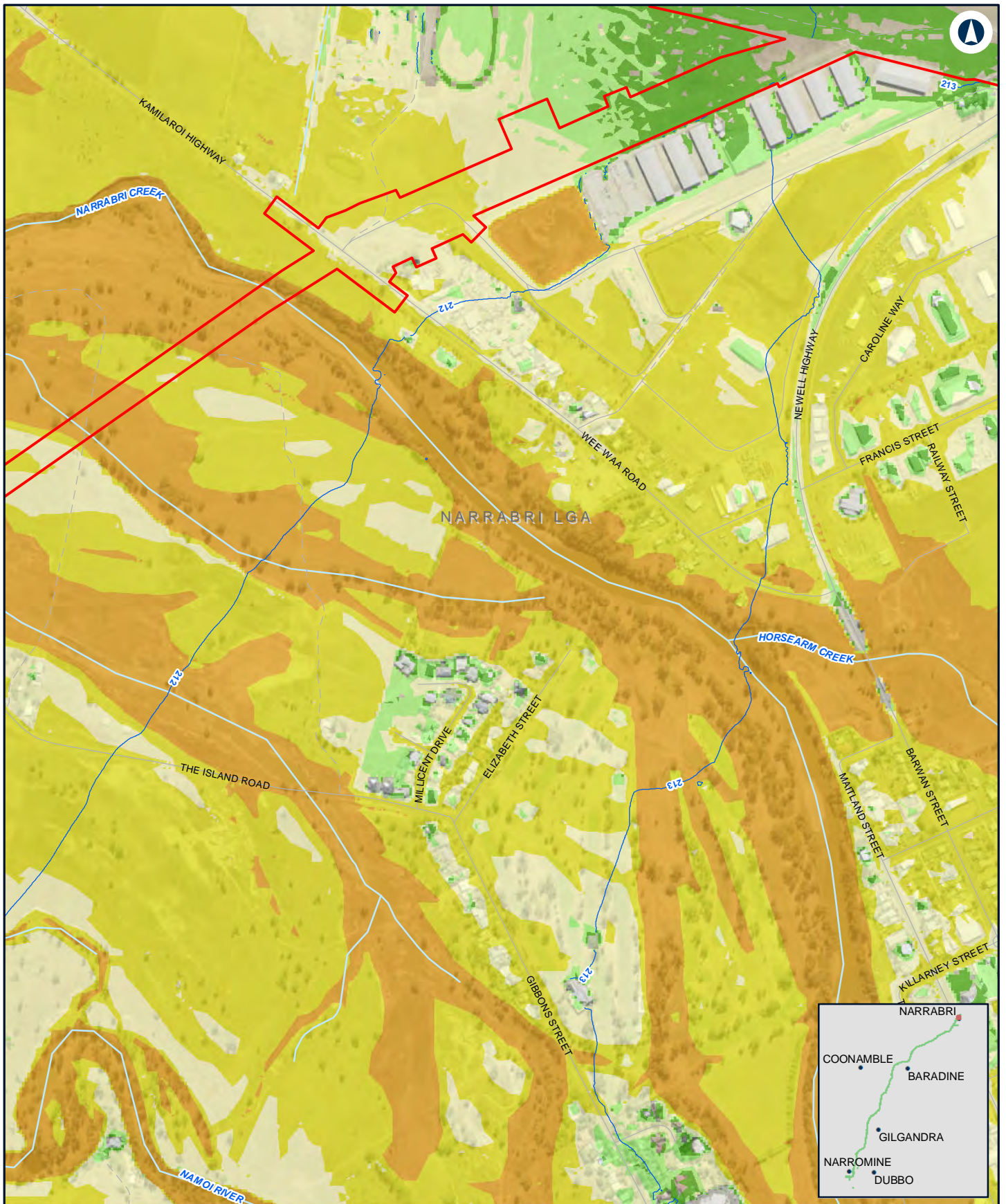
Date: 6/11/2020 Paper: A4
 Author: JacobsGHD Scale: 1:10,000
 Data Sources: Basemap layers: NSWSS;

LEGEND

- The proposal site
- Flood level (mAHD)
- Flood depth**
- 0.0m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1.0m
- 1.0m - 2.0m
- > 2.0m



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



NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

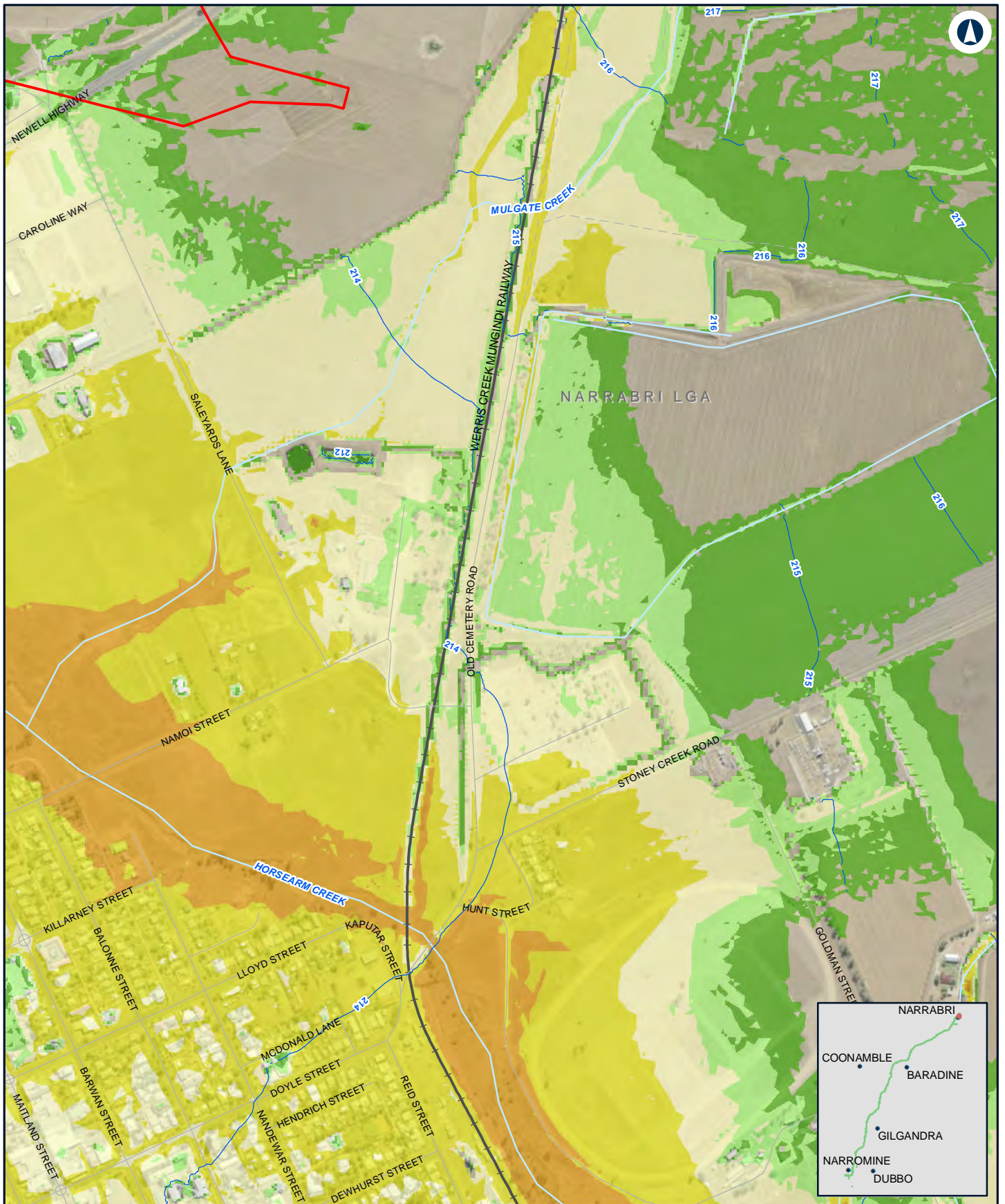
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARRABRI TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site (Red line)

Flood level (mAHD) (Blue line)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

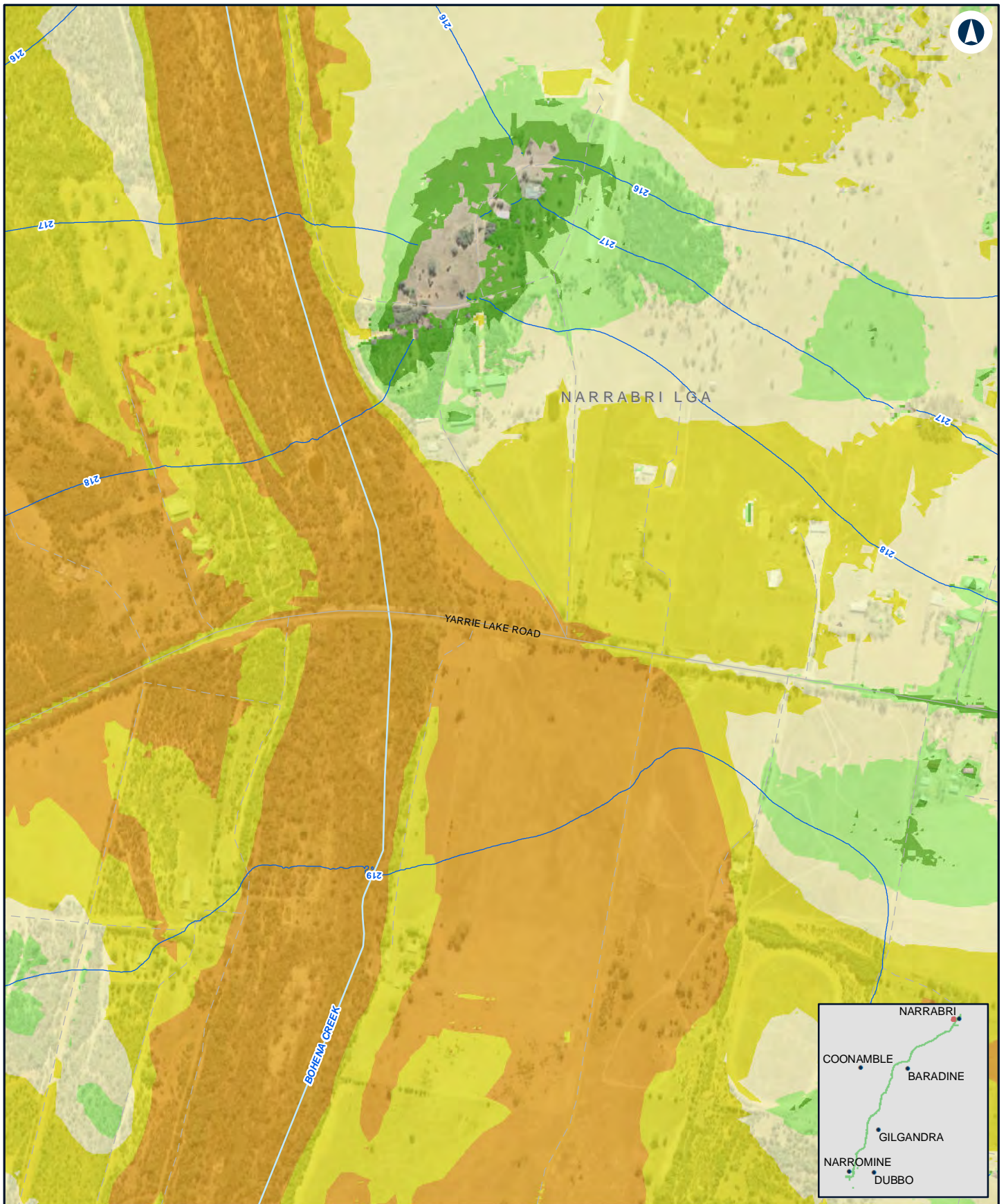
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

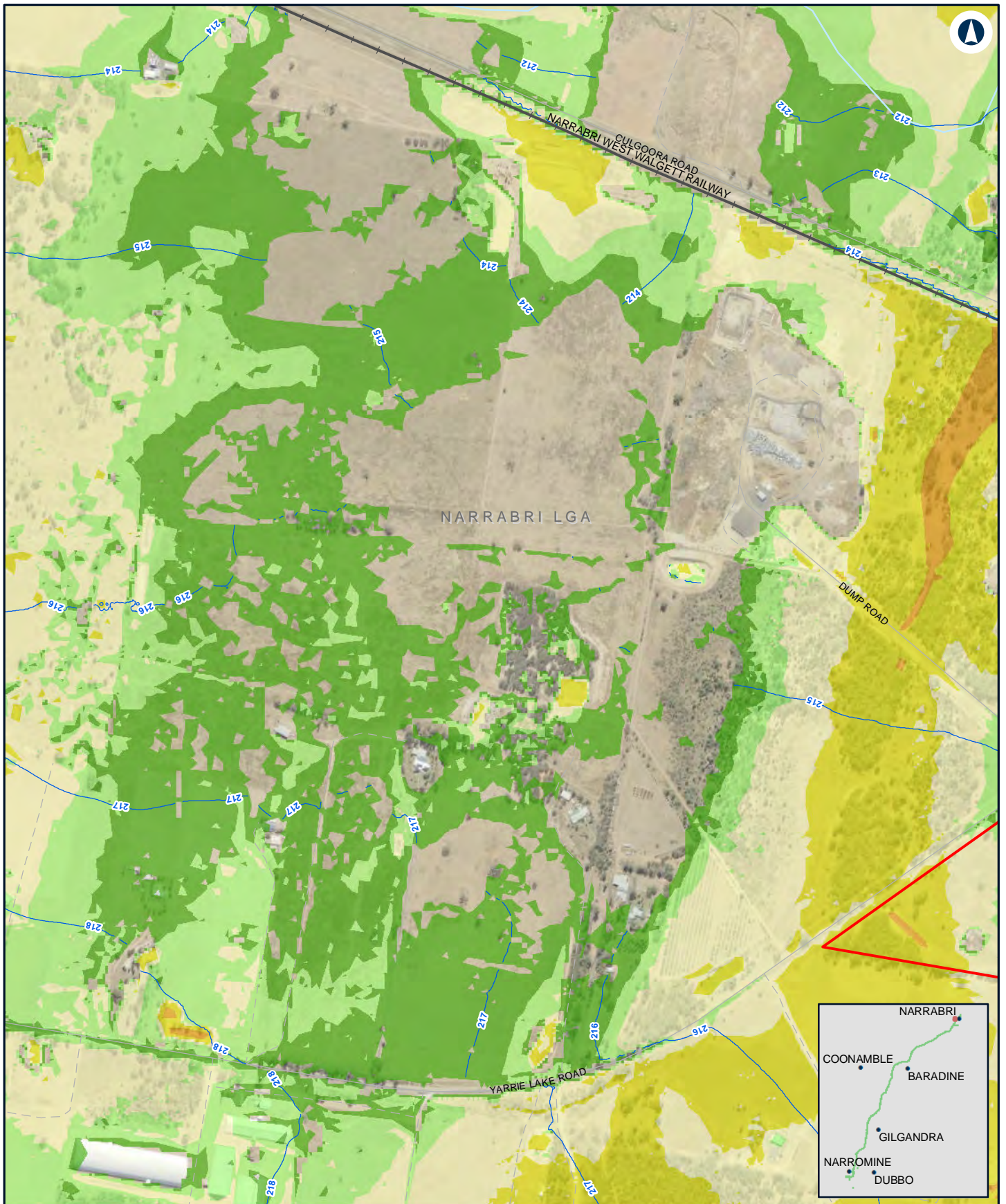
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

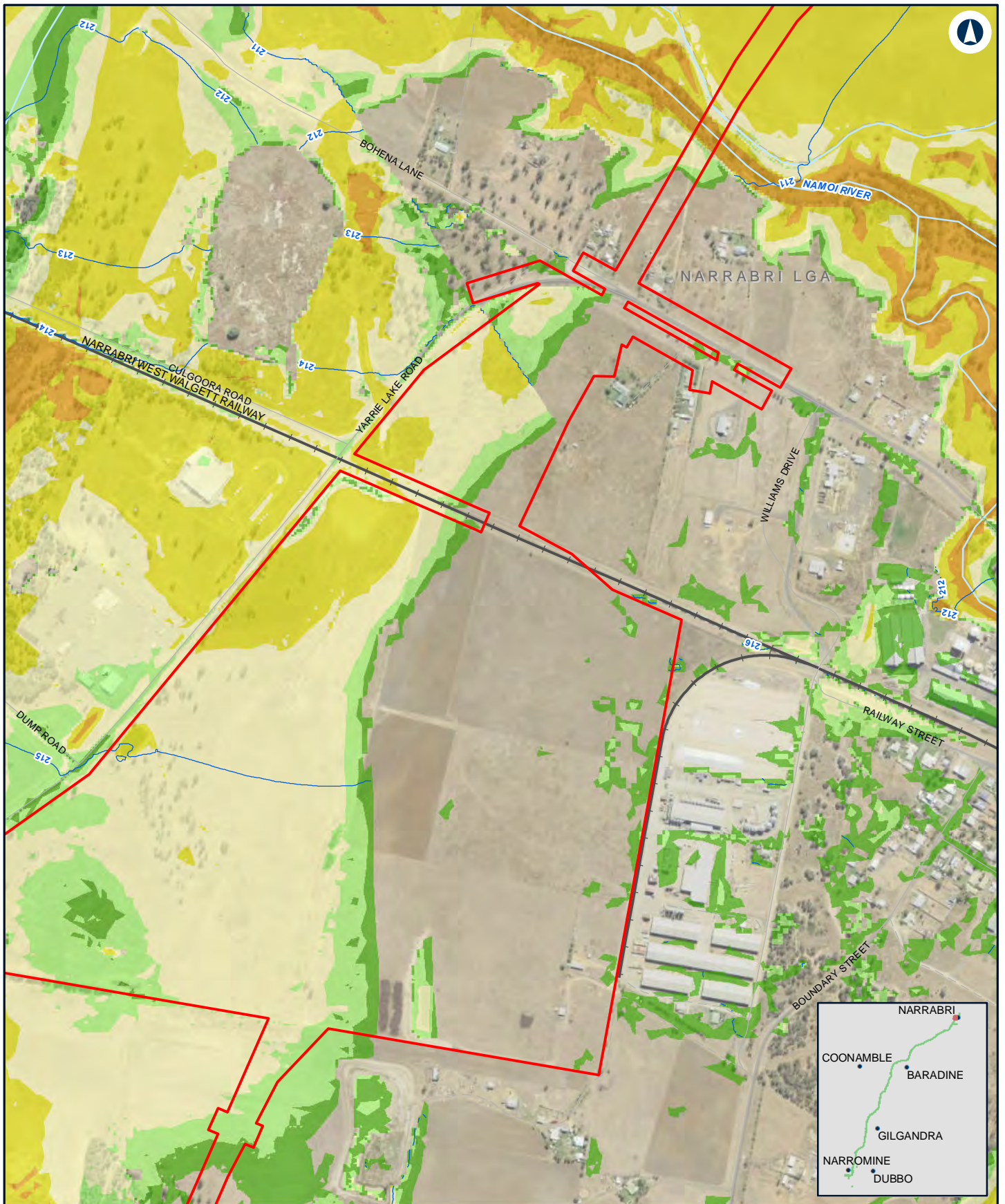
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

The proposal site

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

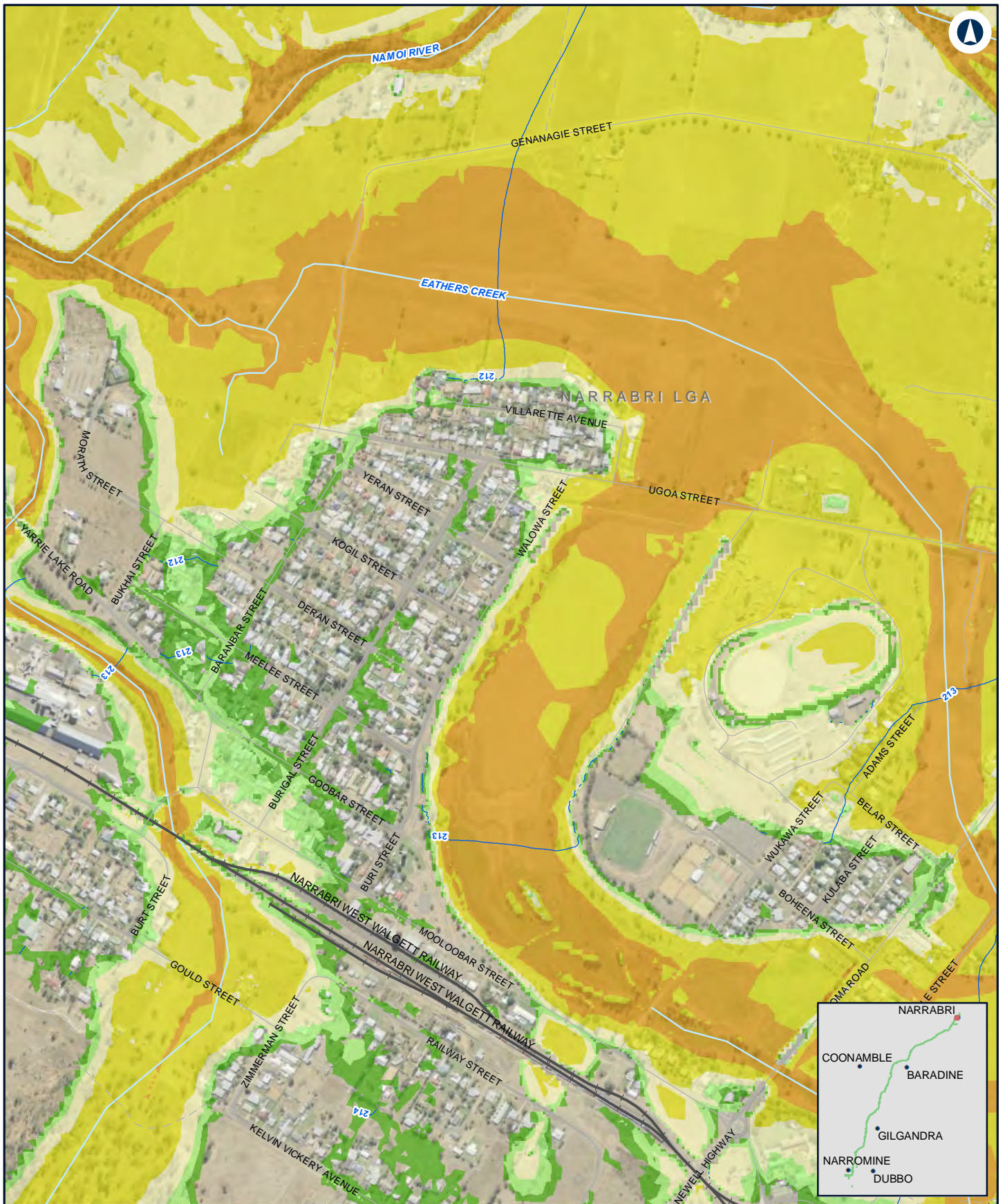
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

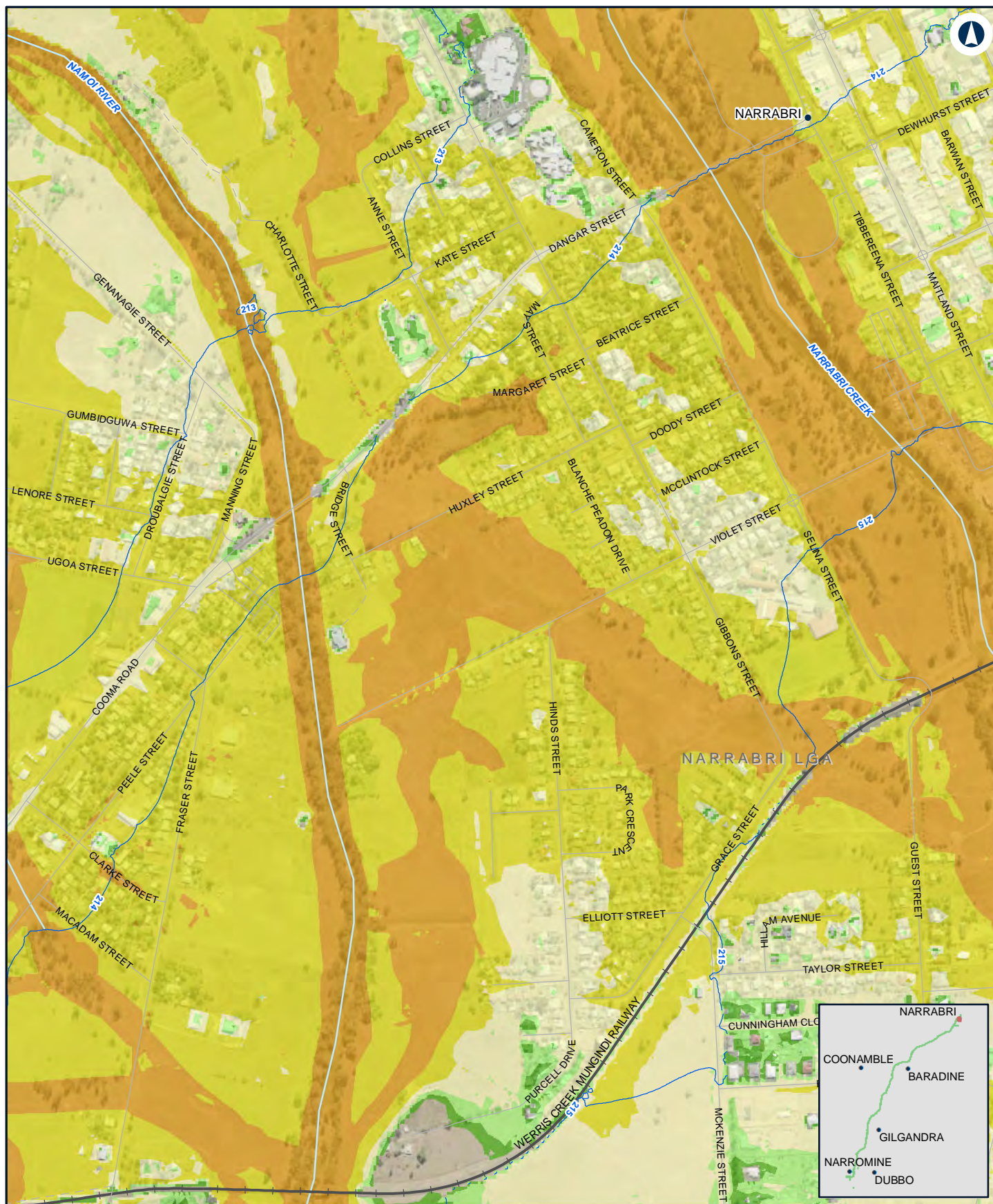
— Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

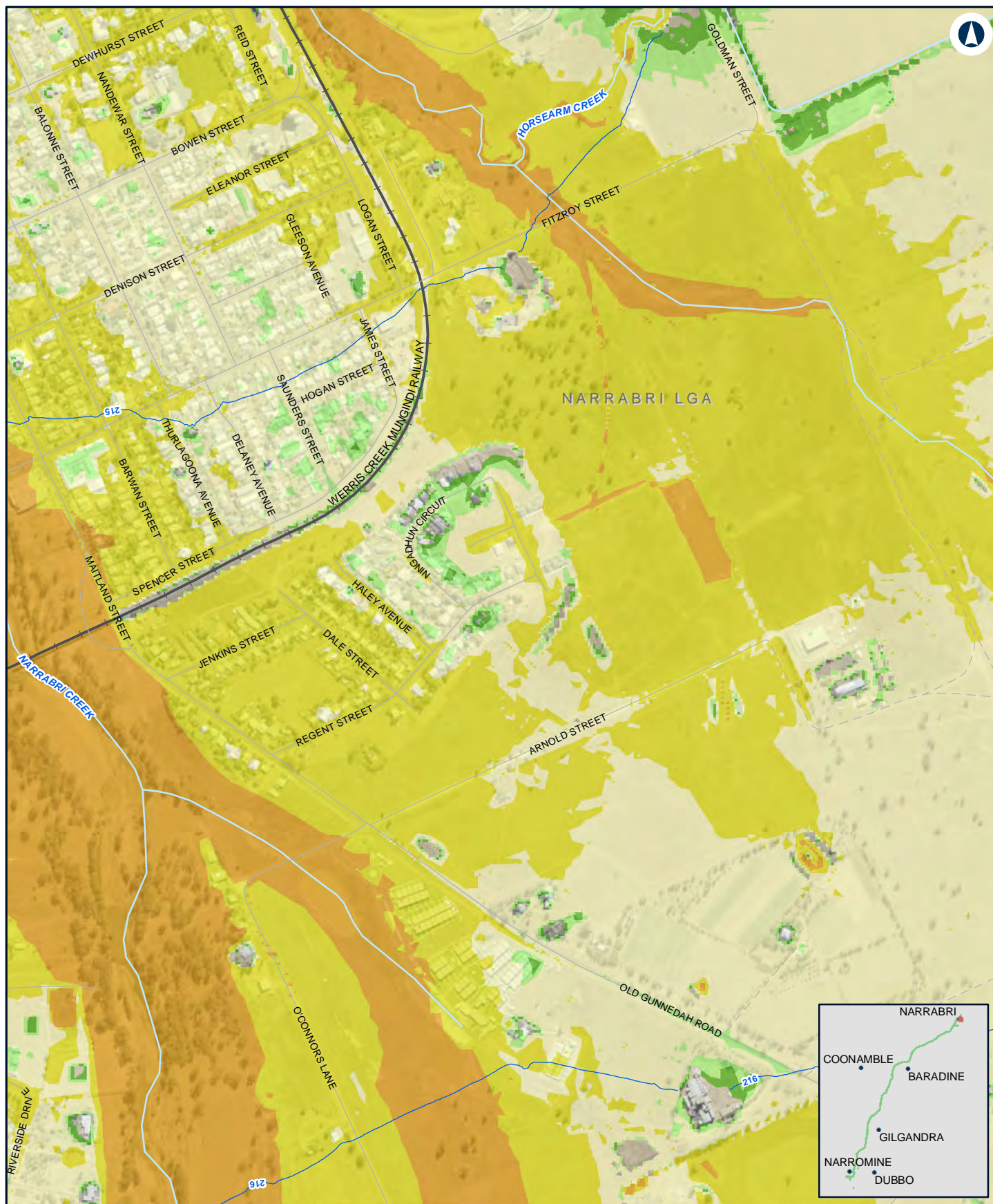
— Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

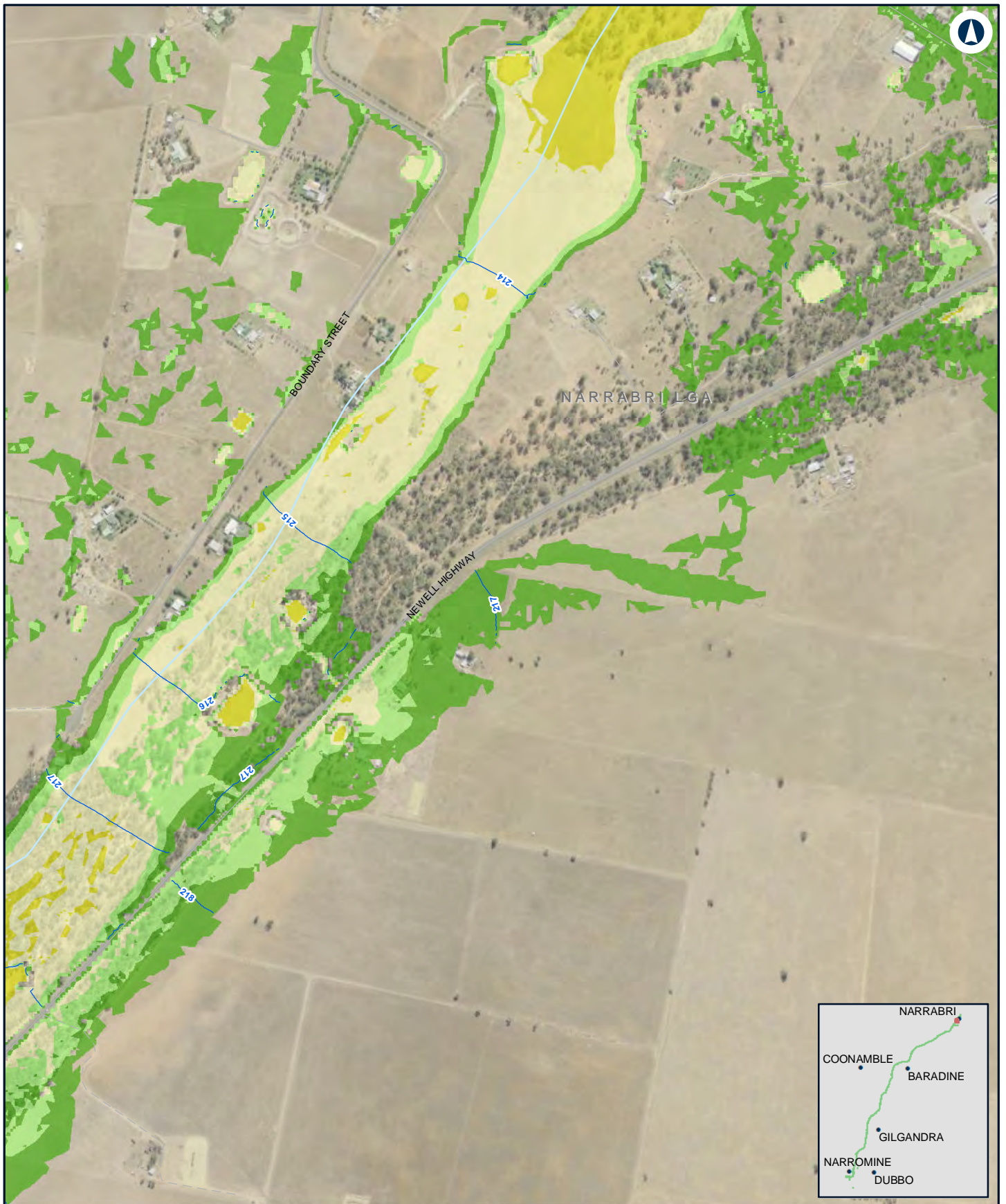
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2j

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

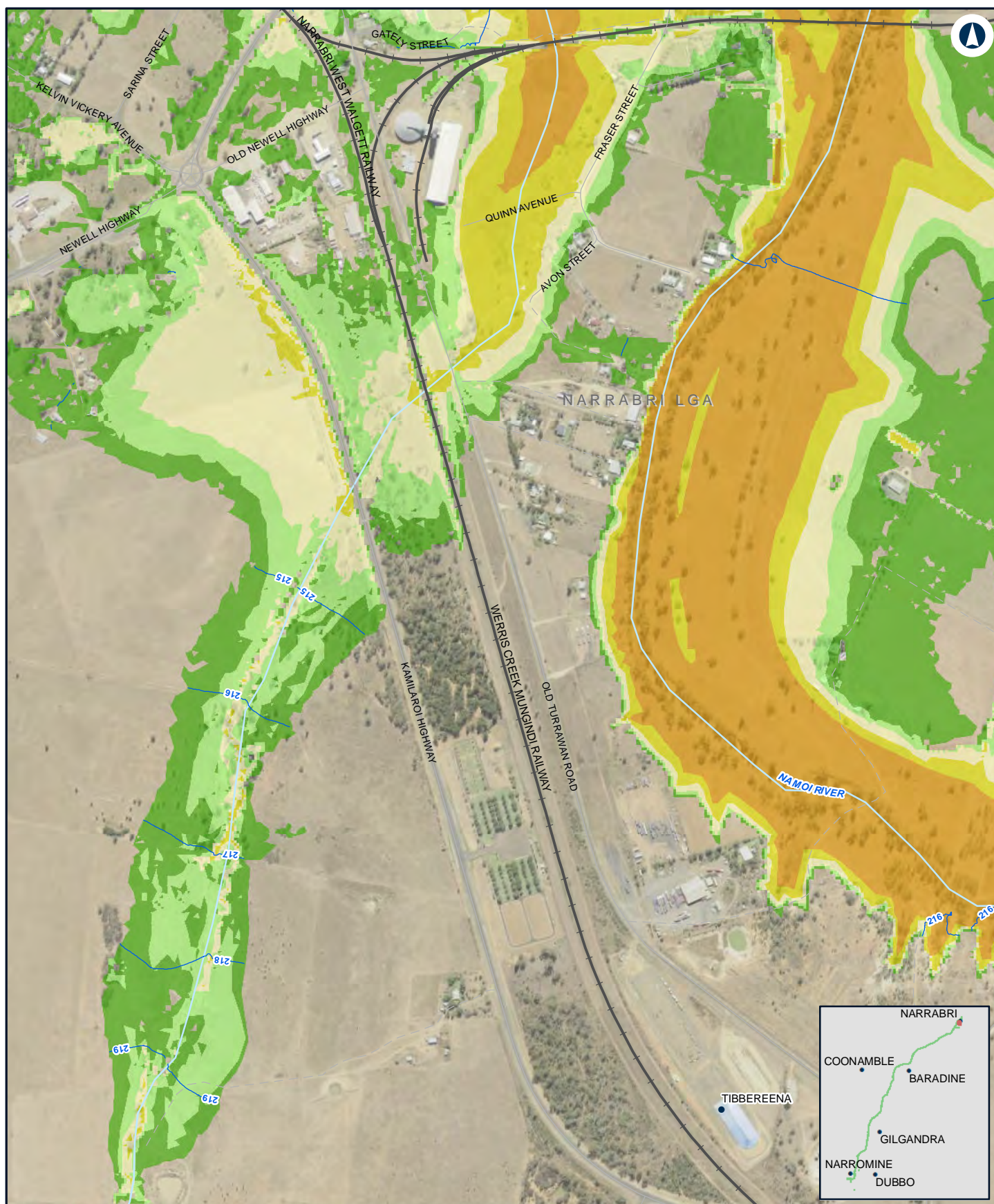
— Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHd)

Flood depth

0.0m - 0.25m

0.25m - 0.5m

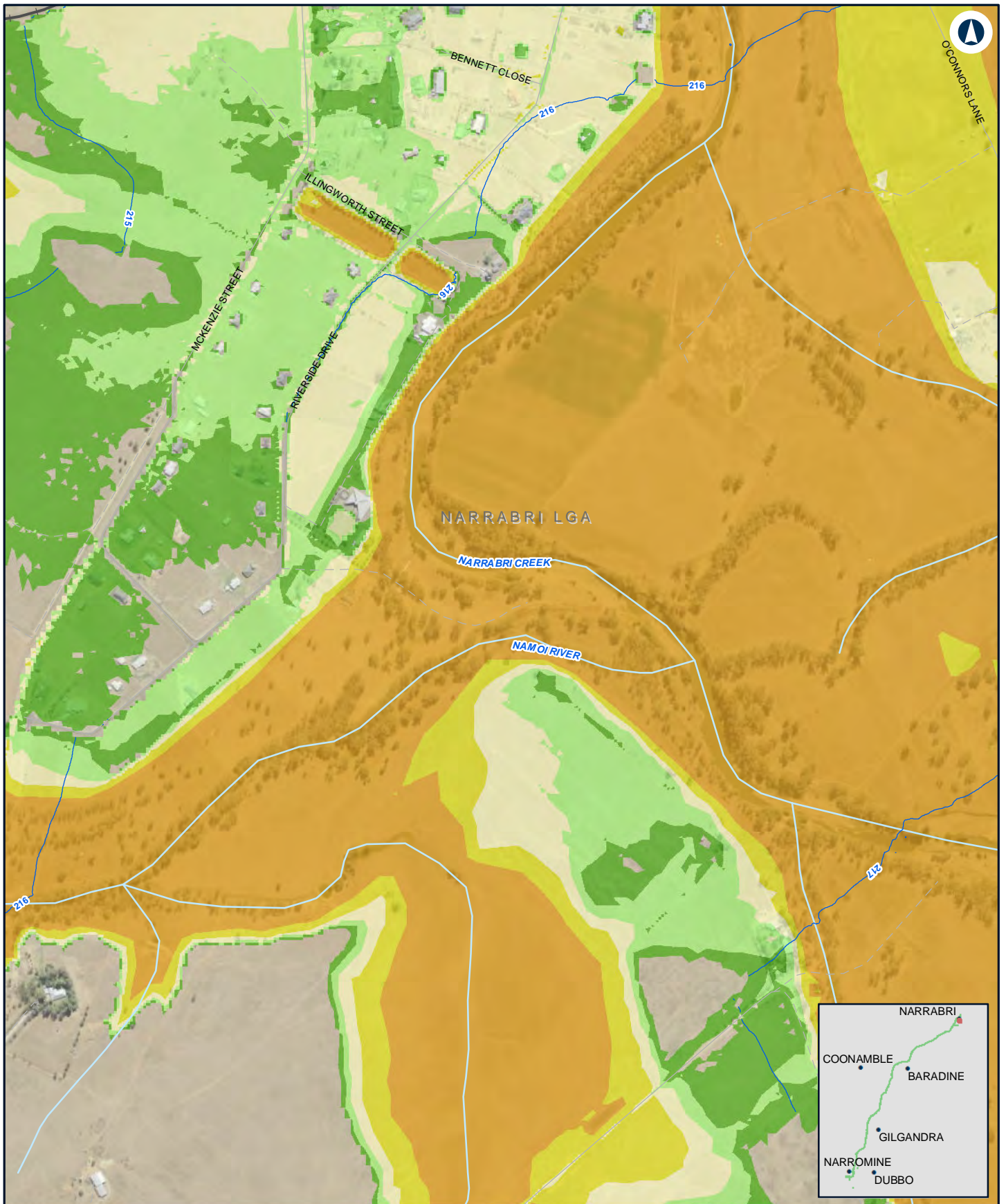
0.5m - 1.0m

1.0m - 2.0m

> 2.0m

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Existing peak depth / level (contour) - Detail - 1% AEP - Narrabri

Appendix H - Figure 1.2I

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020 Paper: A4
Author: JacobsGHD Scale: 1:10,000
Data Sources: Basemap layers: NSWSS;

LEGEND

— Flood level (mAHD)

Flood depth

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

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

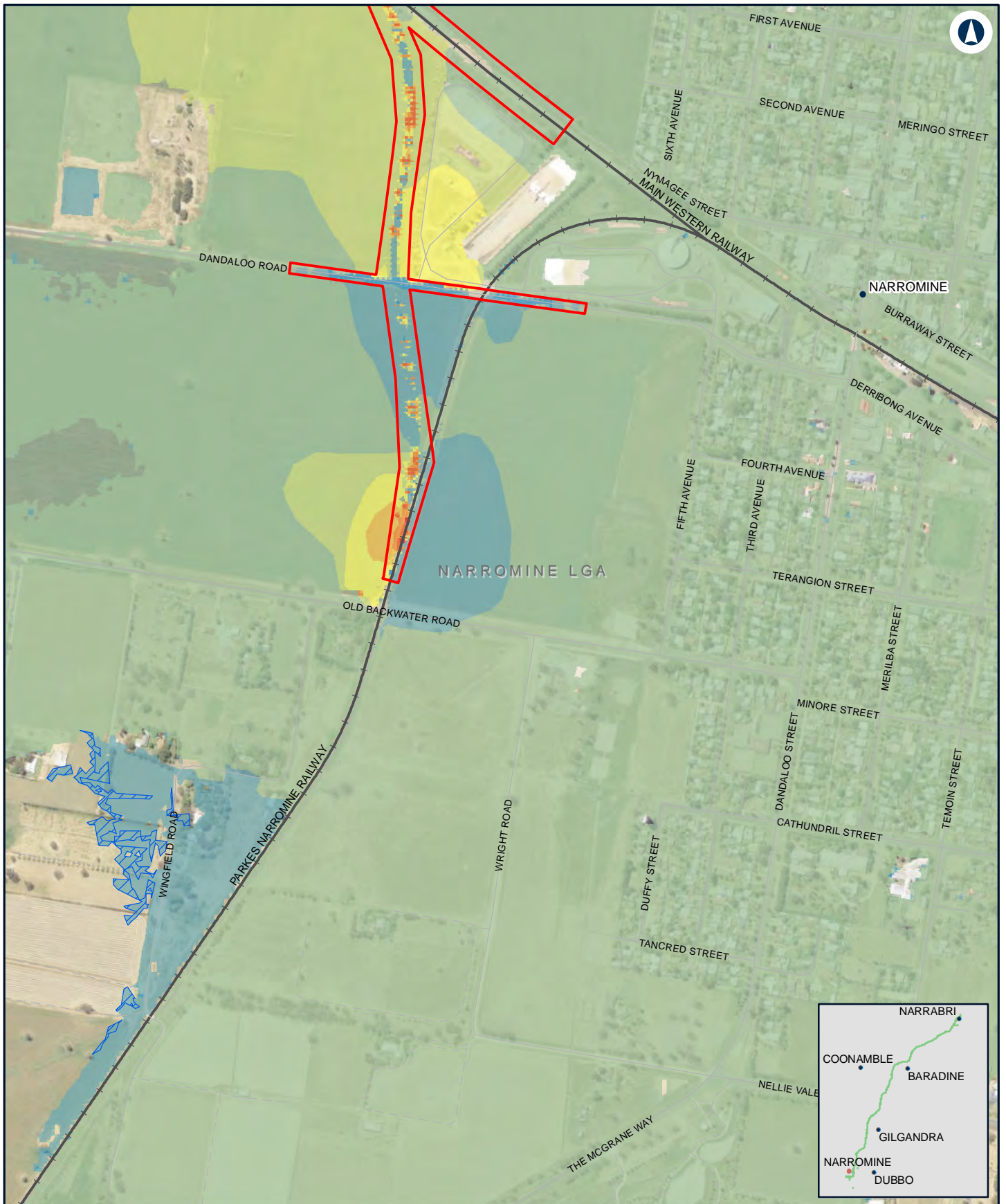
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

 The proposal site

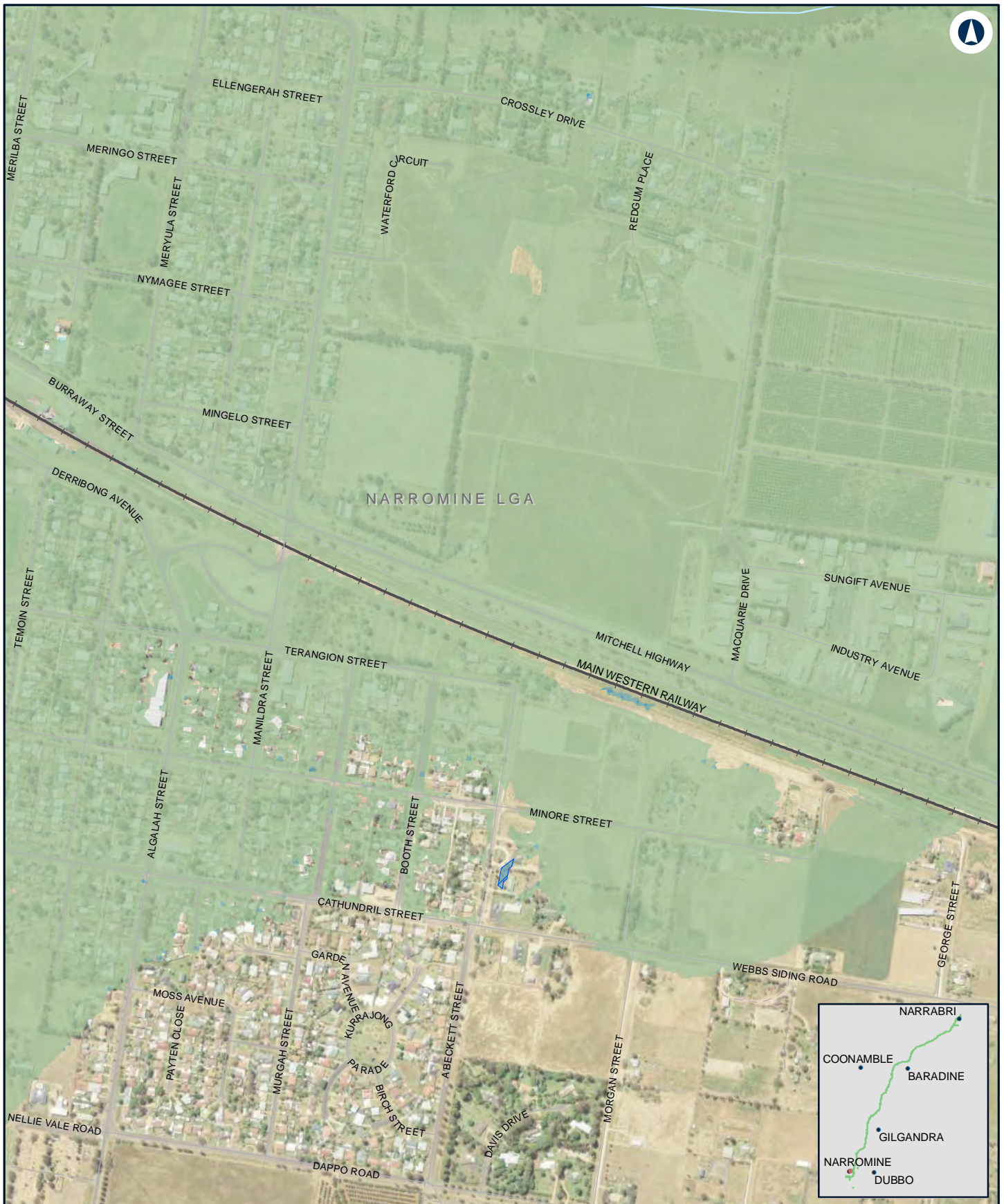
Afflux

> 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
 Was dry now wet
 Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

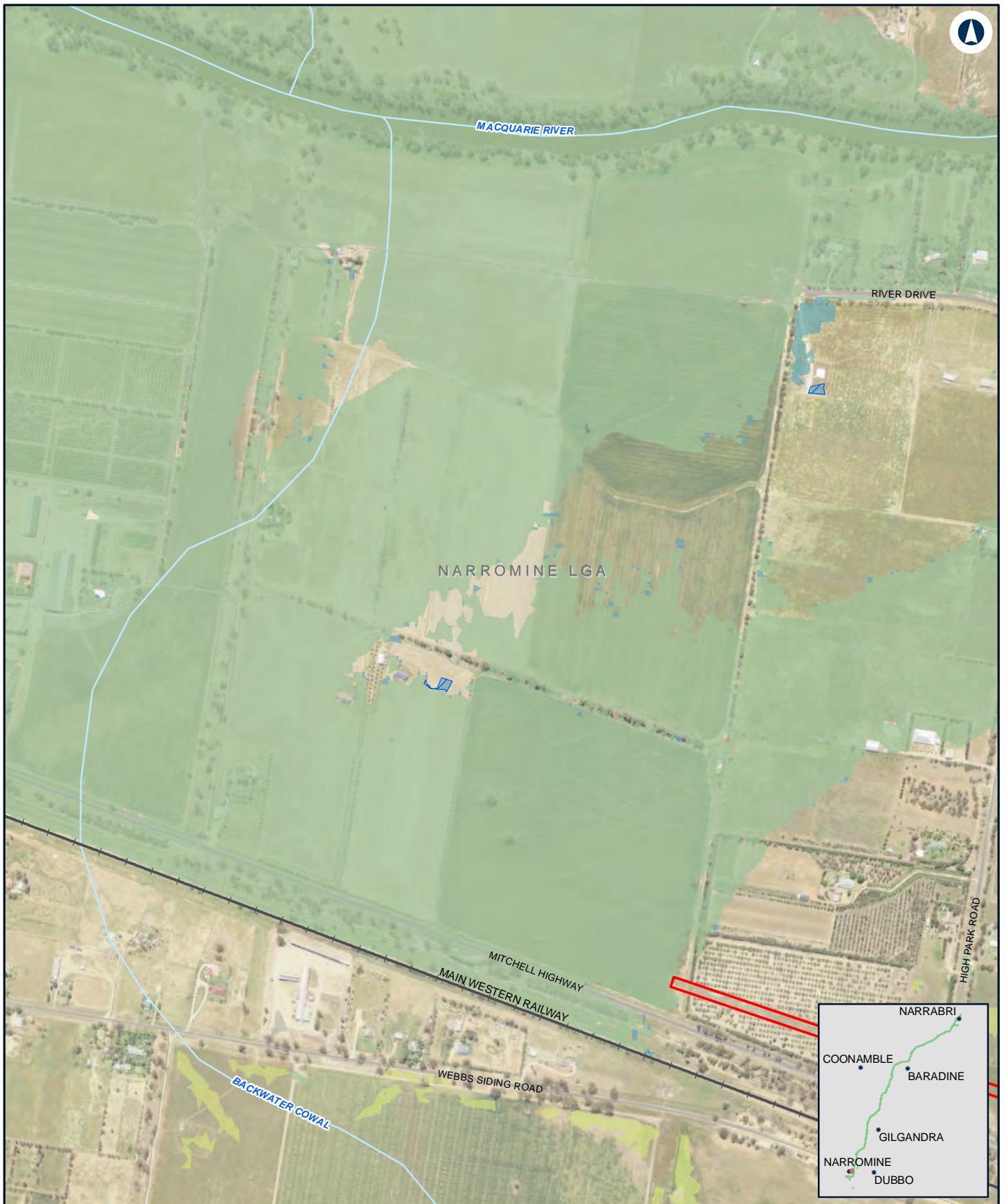
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

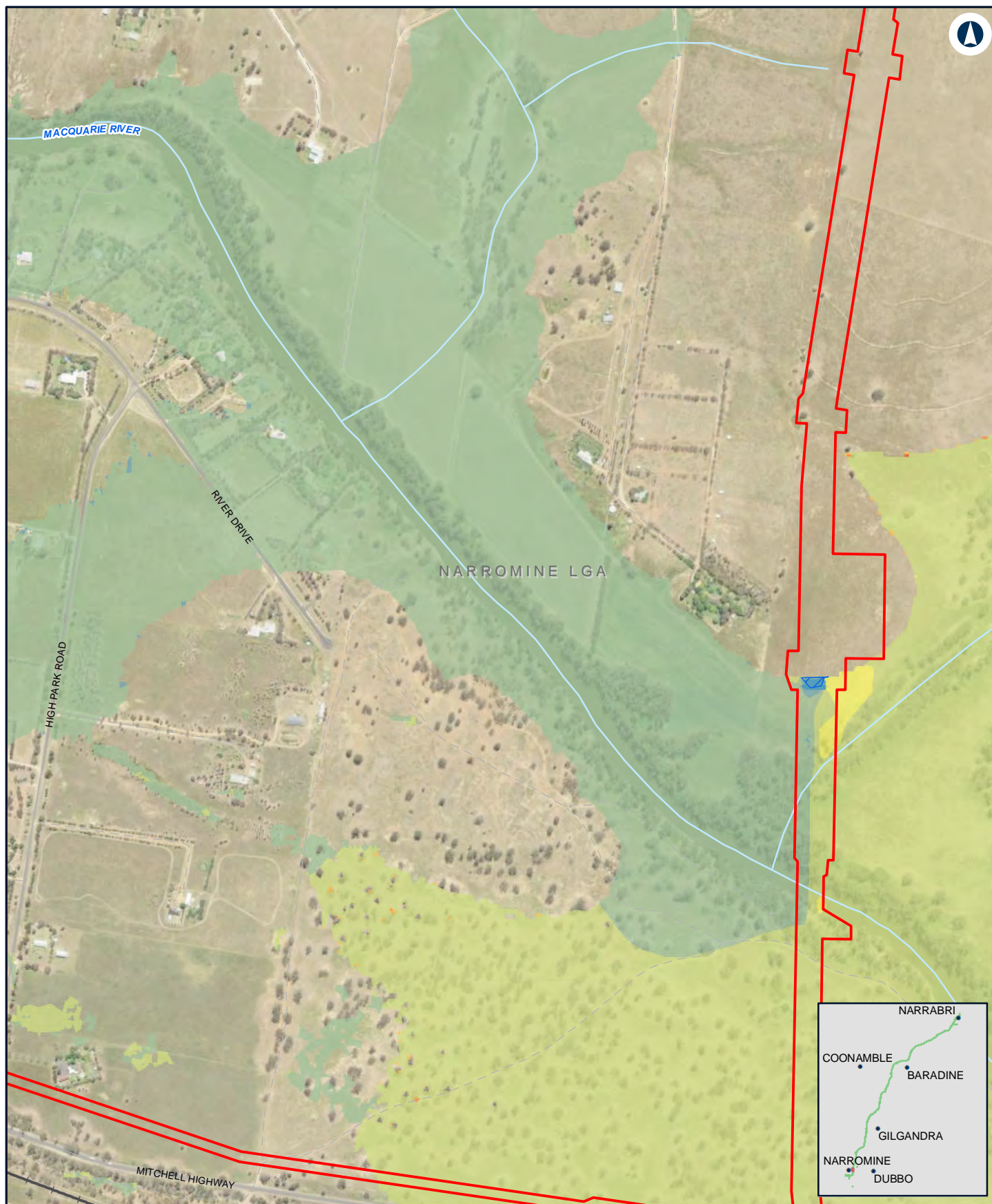
> 0.5 m increase

Was dry now wet

Was wet now dry

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 peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

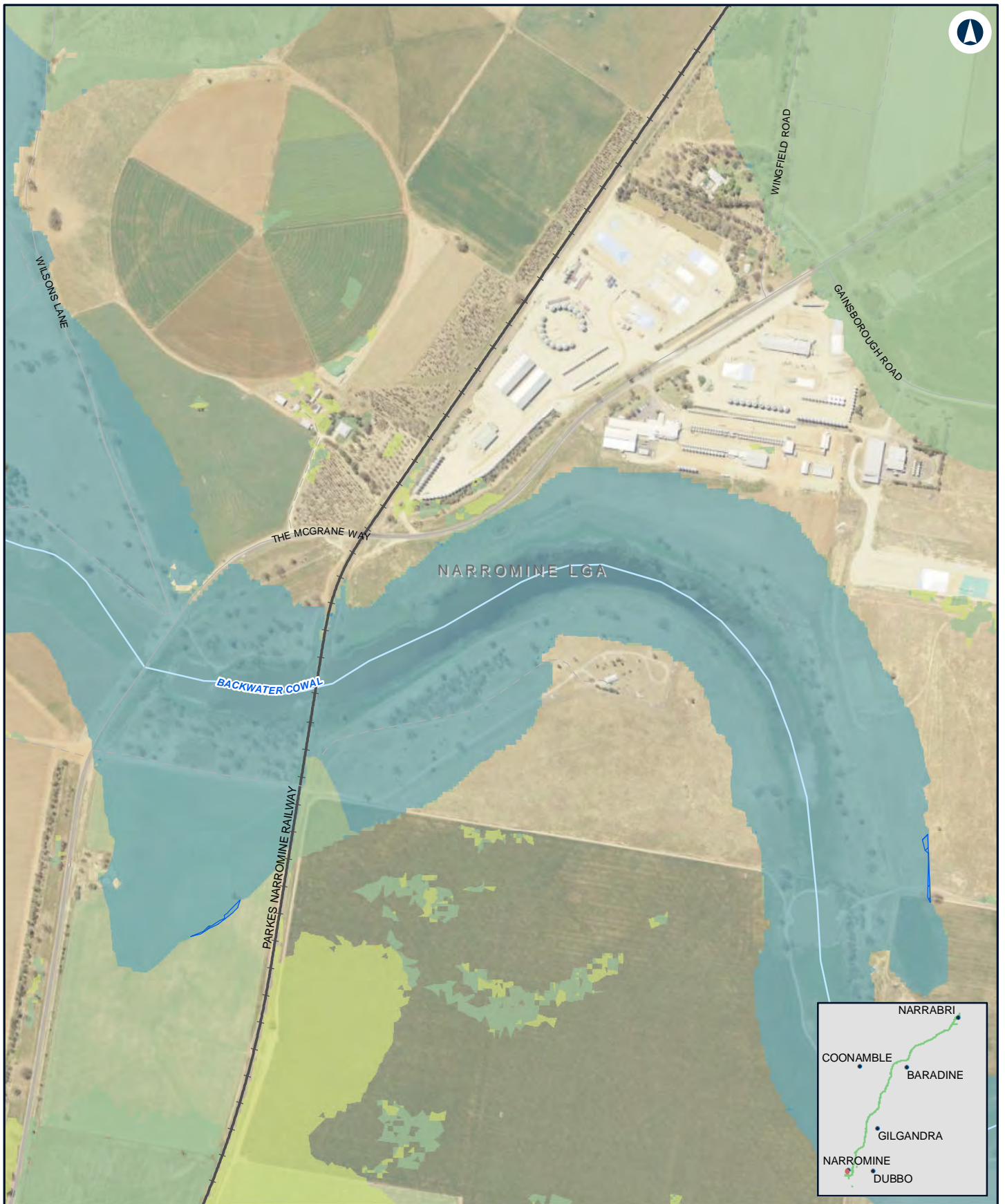
 > 0.5 m increase

 Was dry now wet

 Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

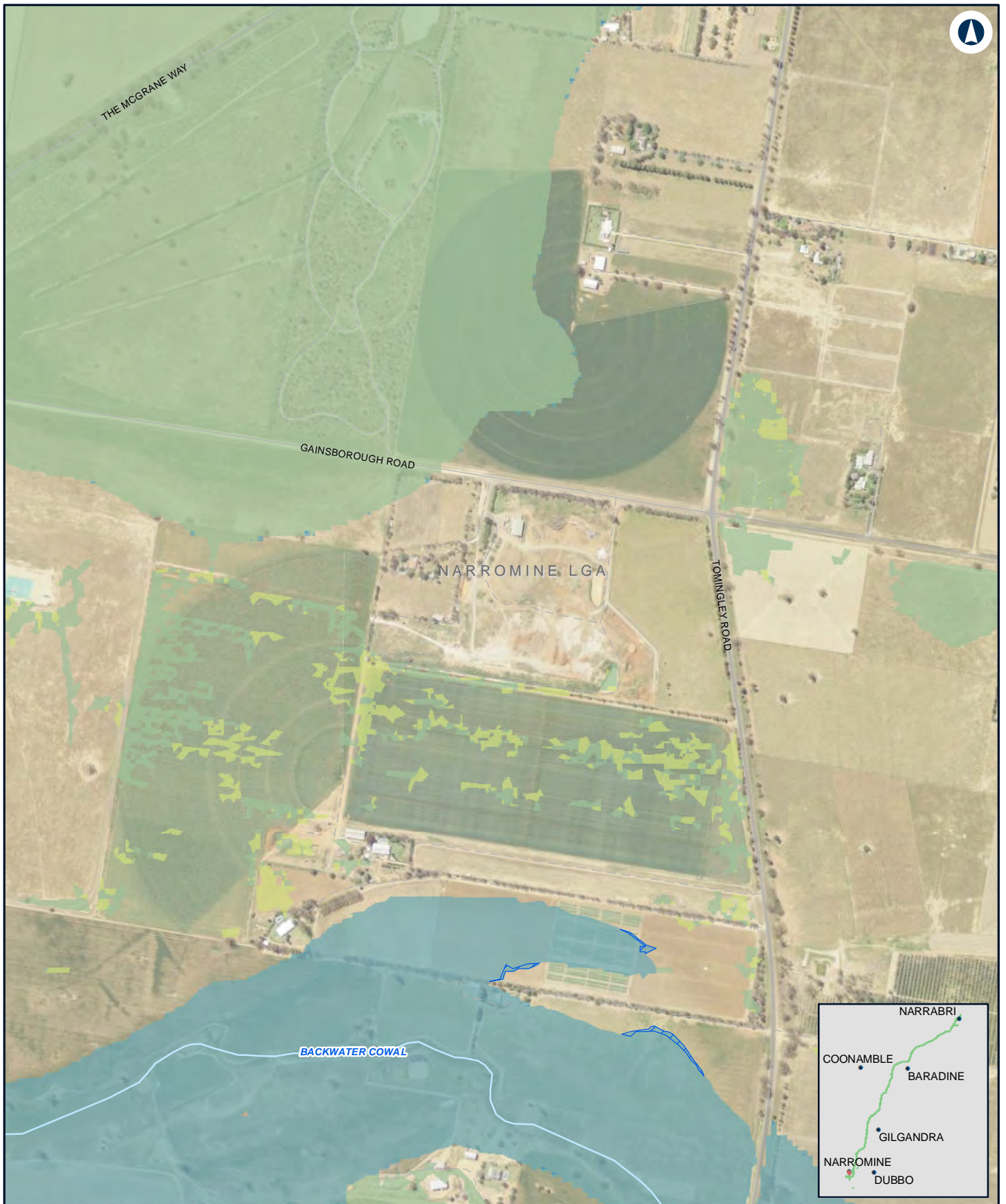
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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
- Was dry now wet
- Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

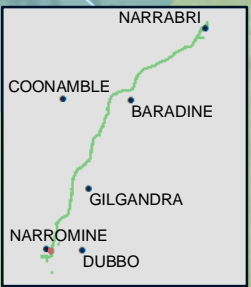
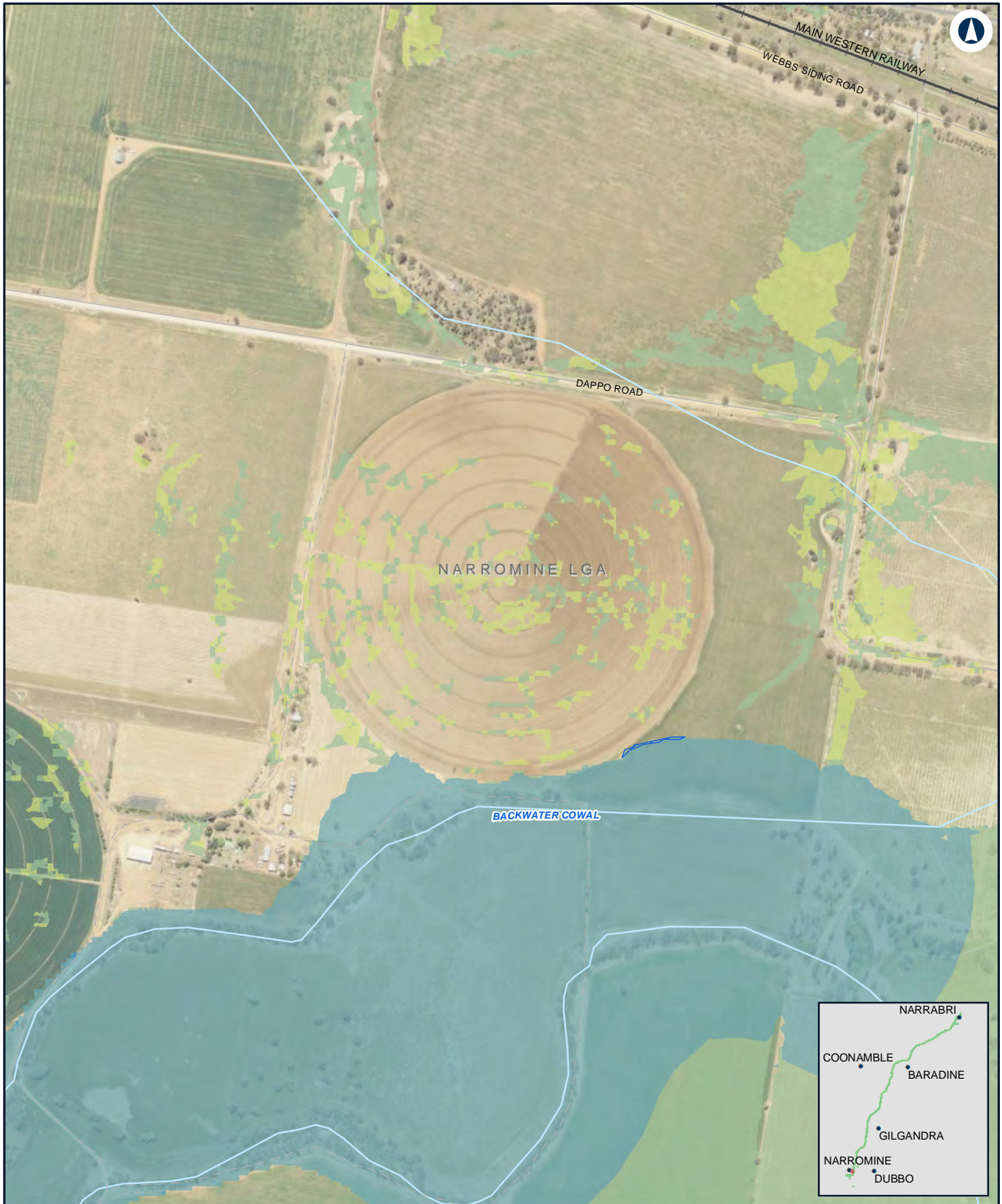
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

INLAND RAIL **ARTC**

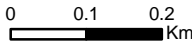
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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

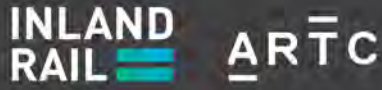
Appendix H - Figure 2.1j



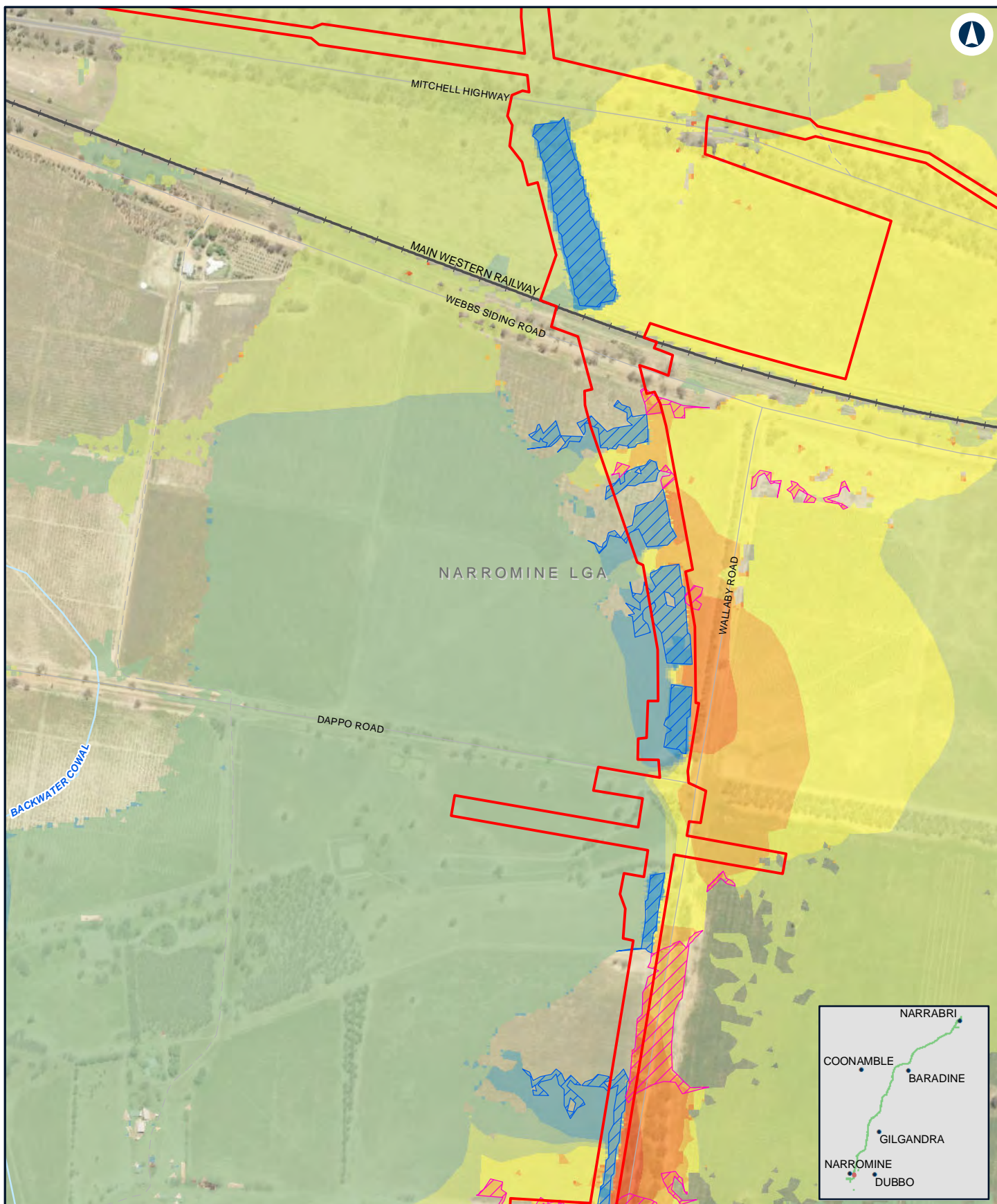
Coordinate System: GDA 1994 MGA Zone 55
 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC 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: 6/11/2020 Paper: A4
 Author: JacobsGHD Scale: 1:10,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- | | |
|--------------------------|------------------------|
| Afflux | 0.1 m - 0.2 m increase |
| > 0.2m decrease | 0.2 m - 0.5 m increase |
| 0.01 m - 0.2 m decrease | > 0.5 m increase |
| 0 m - 0.01 m decrease | Was dry now wet |
| 0 m - 0.01 m increase | Was wet now dry |
| 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) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

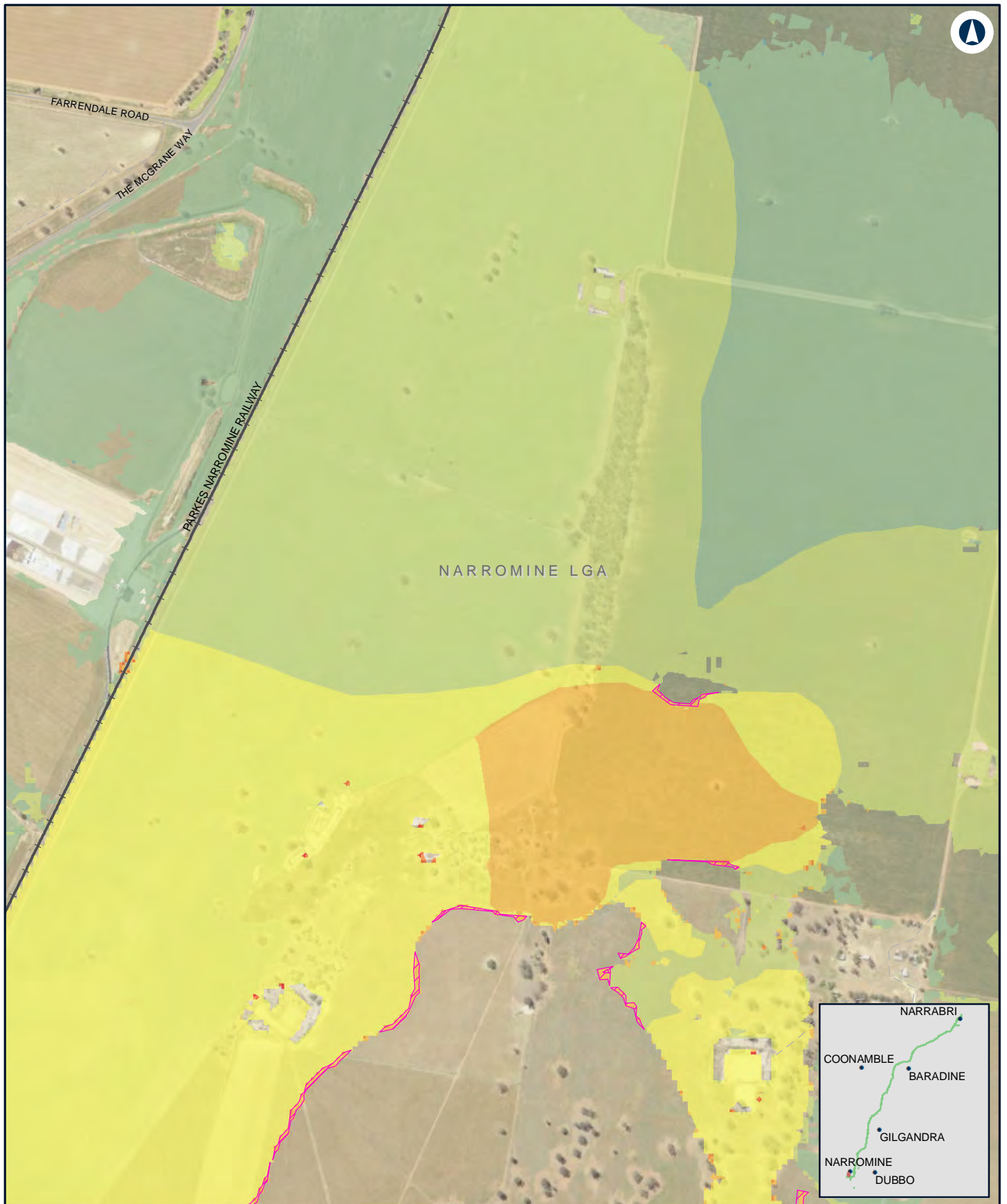
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1I

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

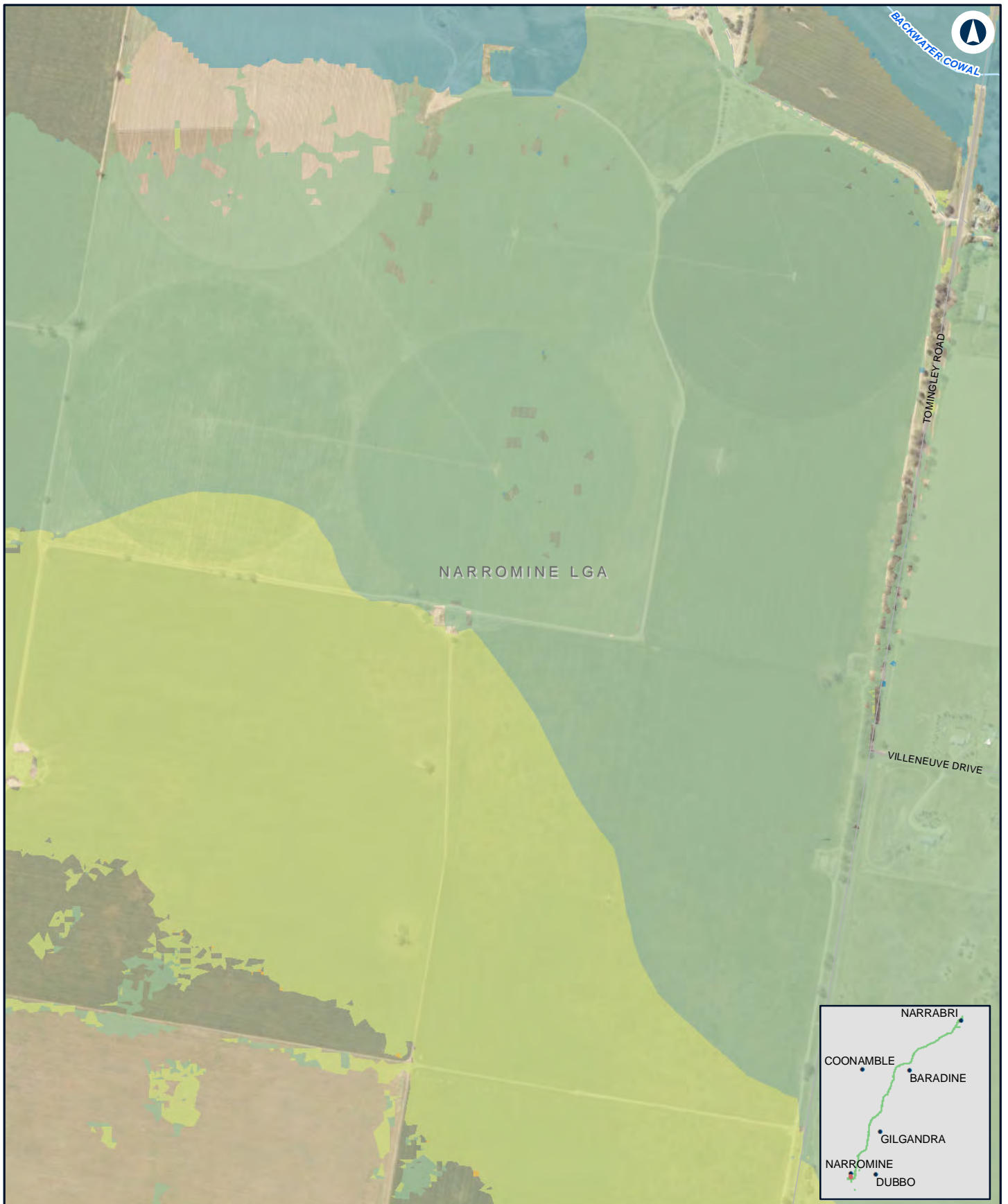
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1m

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

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Author: JacobsGHD

Scale: 1:10,000

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

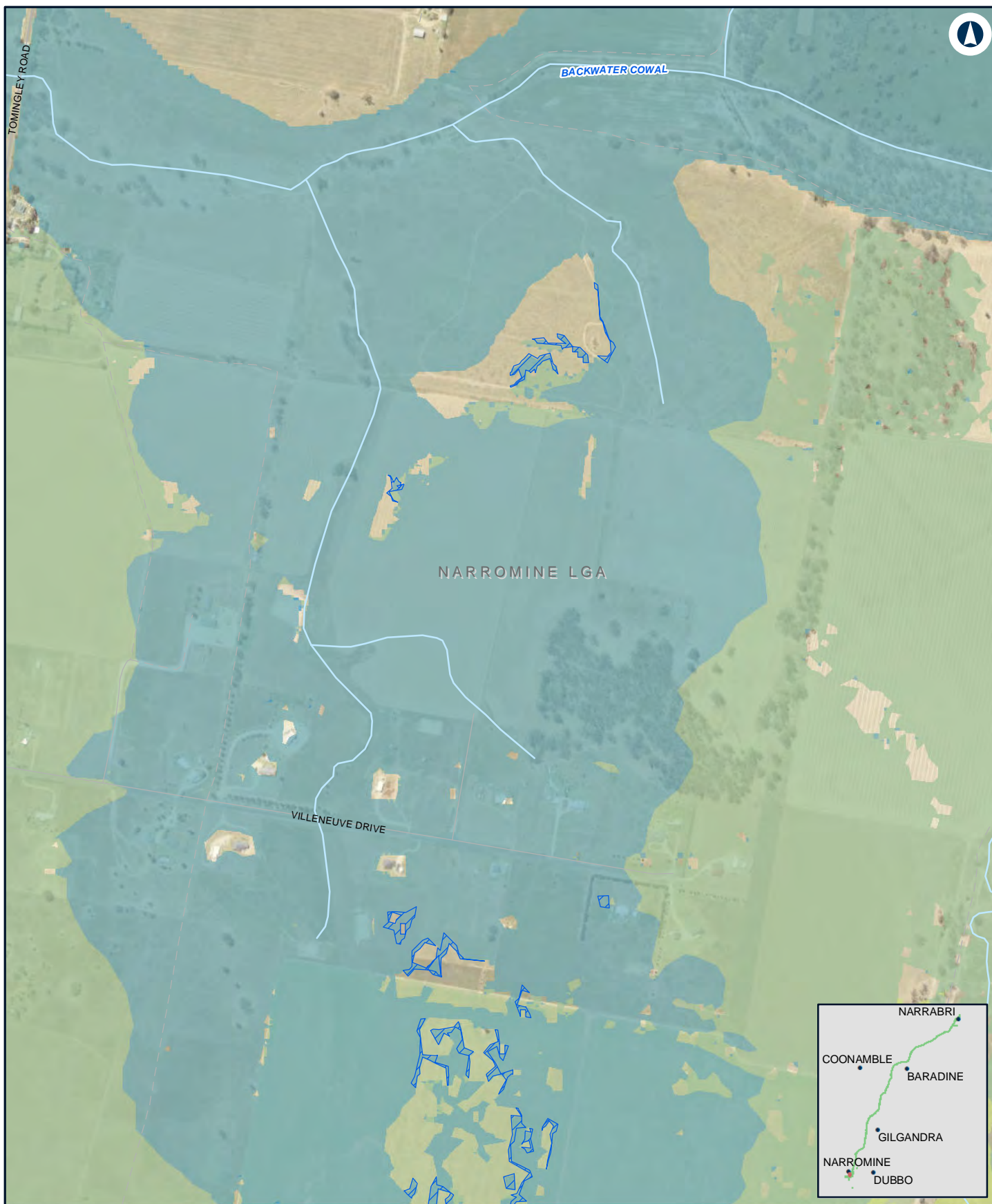
LEGEND

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		Was dry now wet
	0.01 m - 0.05 m increase		Was wet now dry
	0.05 m - 0.1 m increase		

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1n

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

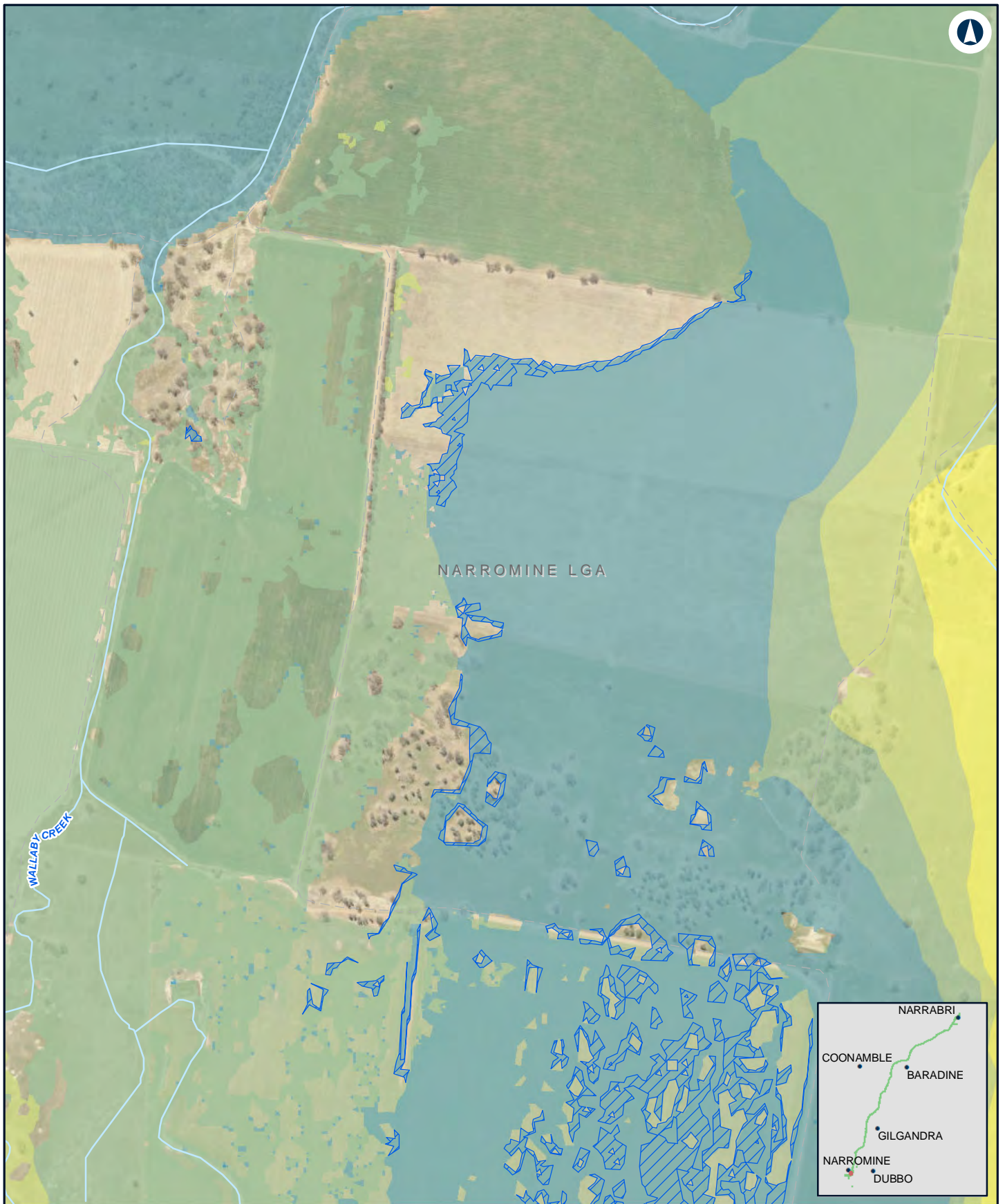
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1o

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

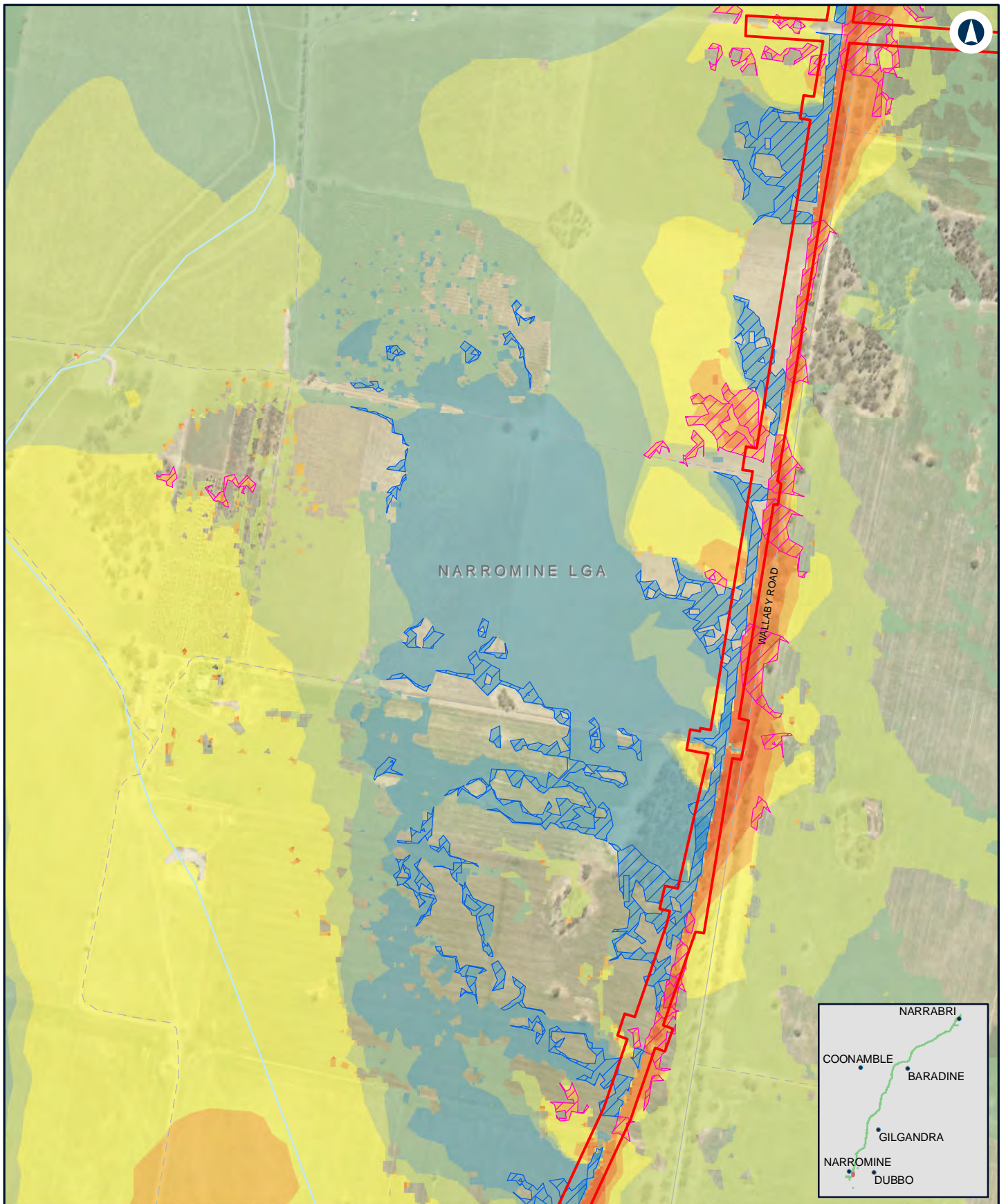
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1p

0 0.1 0.2
Km

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

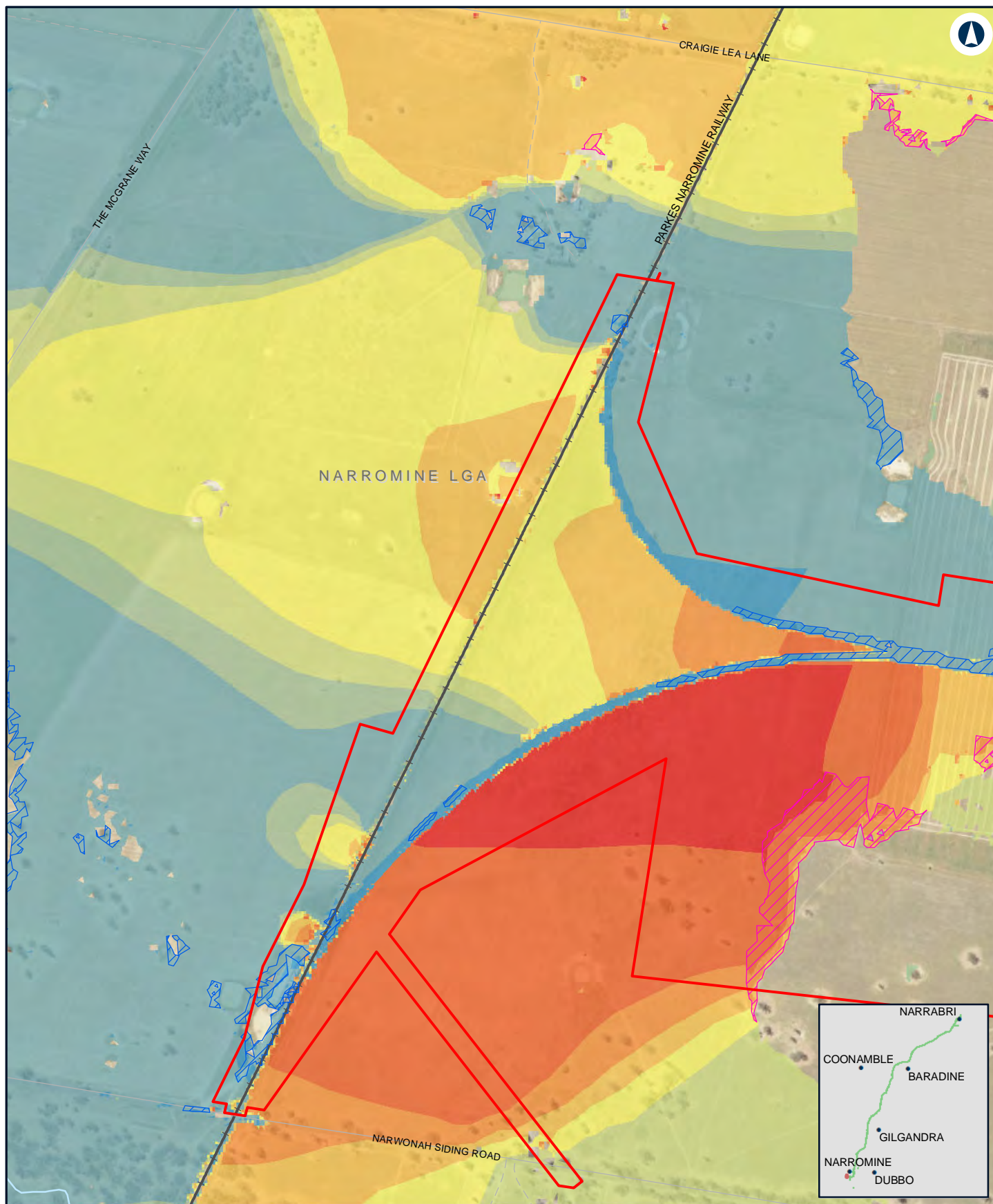
 > 0.5 m increase

 Was dry now wet

 Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1q

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

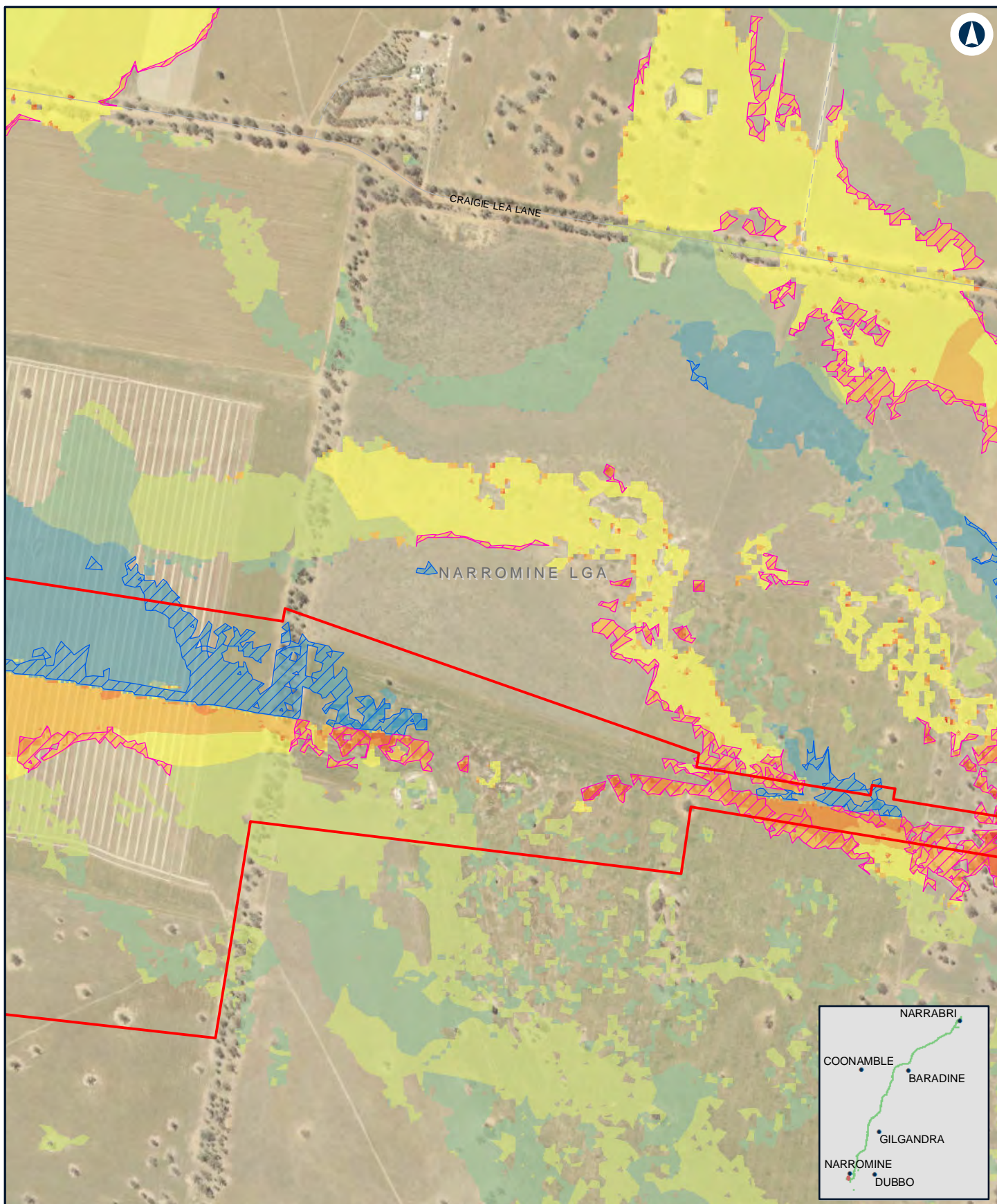
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1r

0 0.1 0.2
Km

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

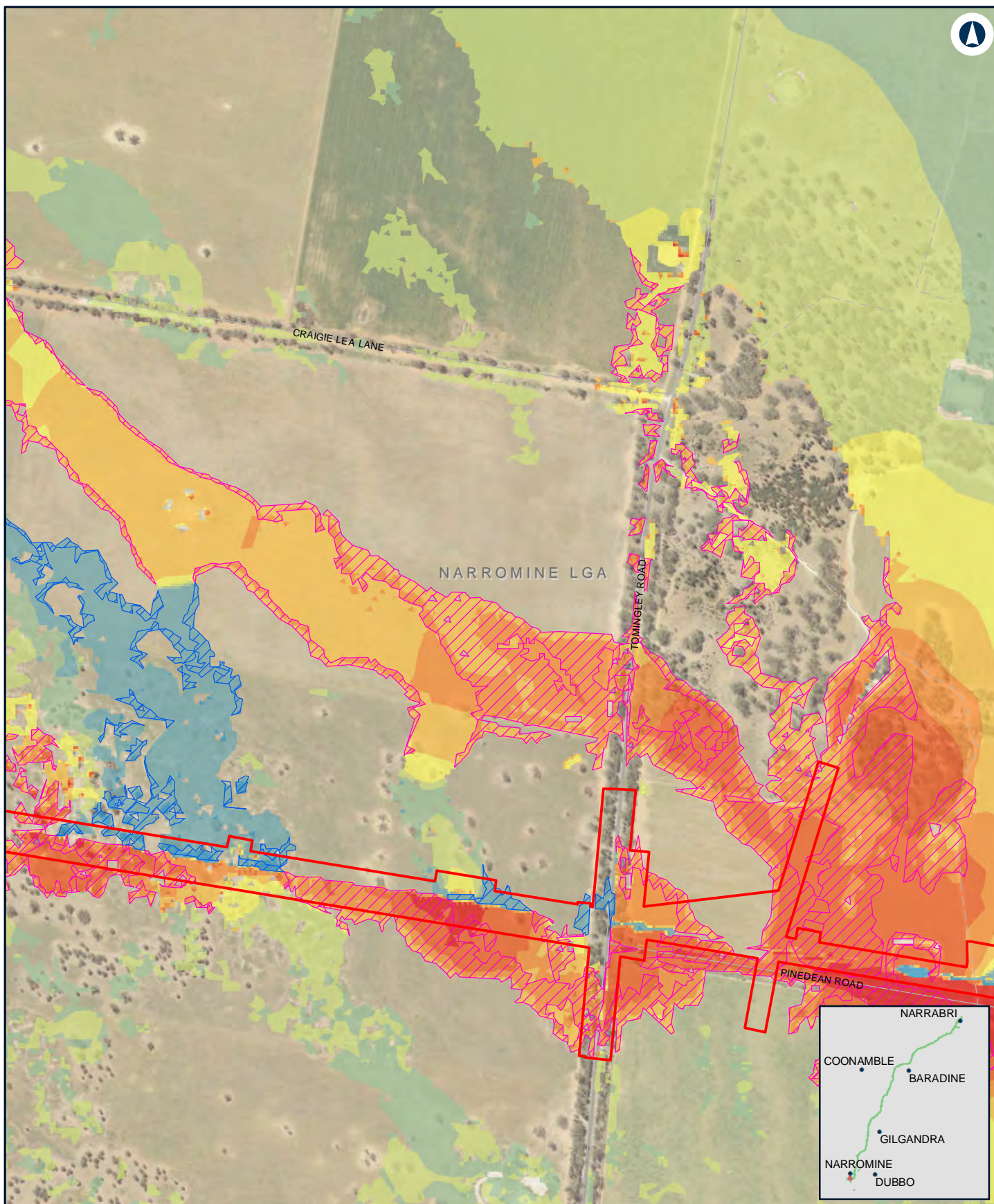
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1s

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

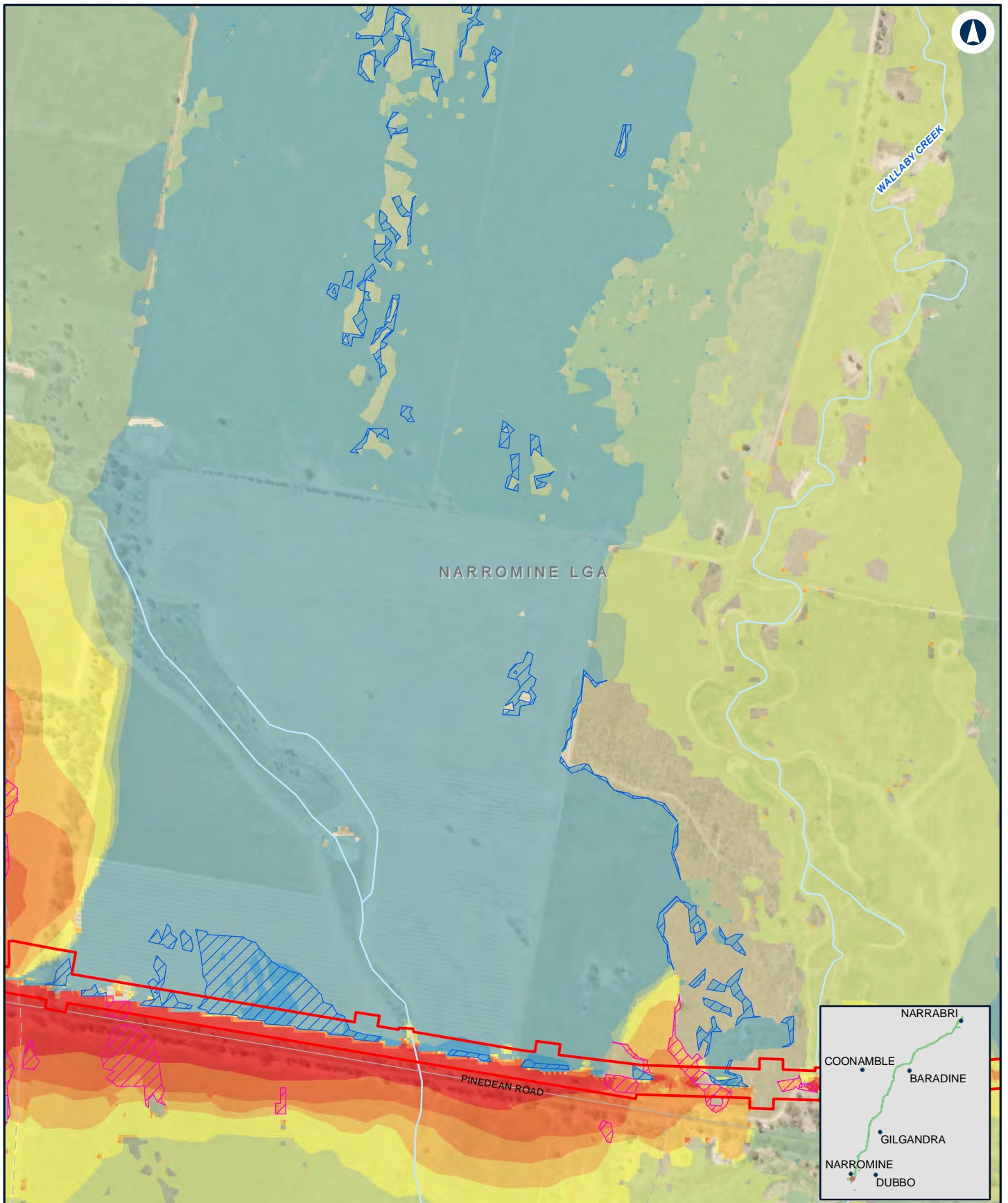
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1t

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

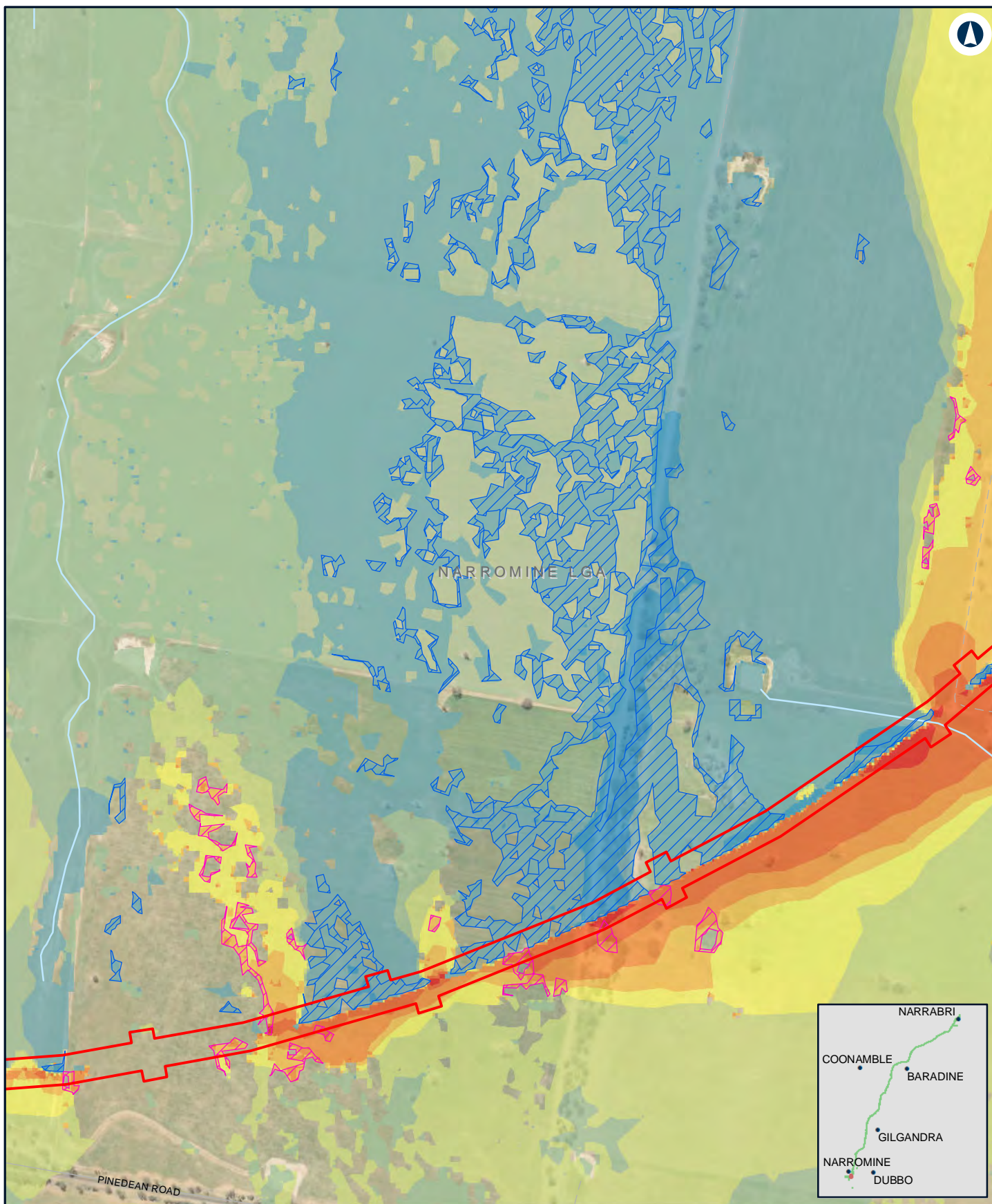
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1u

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

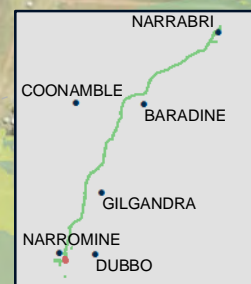
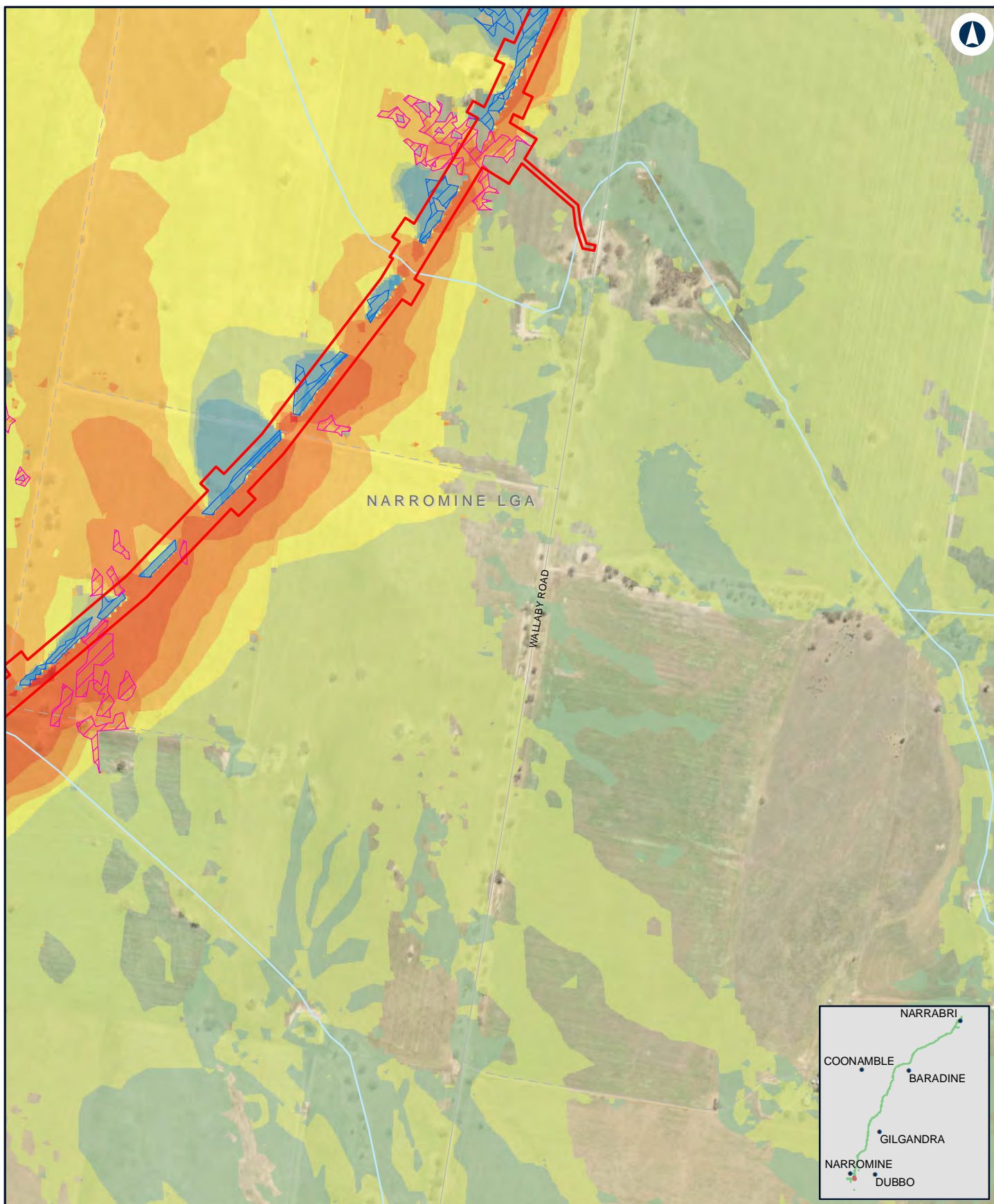
 > 0.5 m increase

 Was dry now wet

 Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1v

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

 Was dry now wet

 Was wet now dry

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 peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2a

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

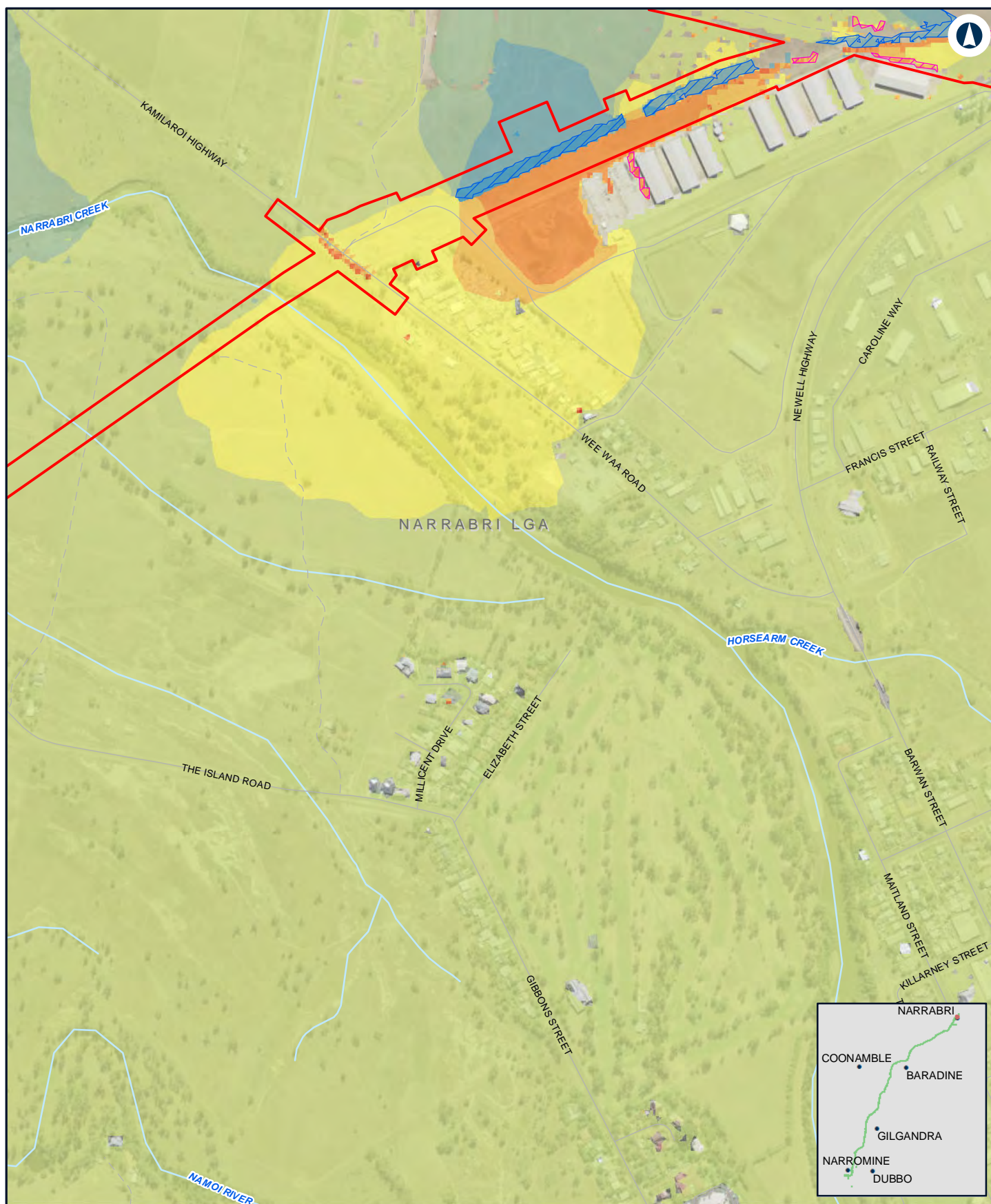
 > 0.5 m increase

 Was dry now wet

 Was wet now dry

INLAND RAIL **ARTC**

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2b

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

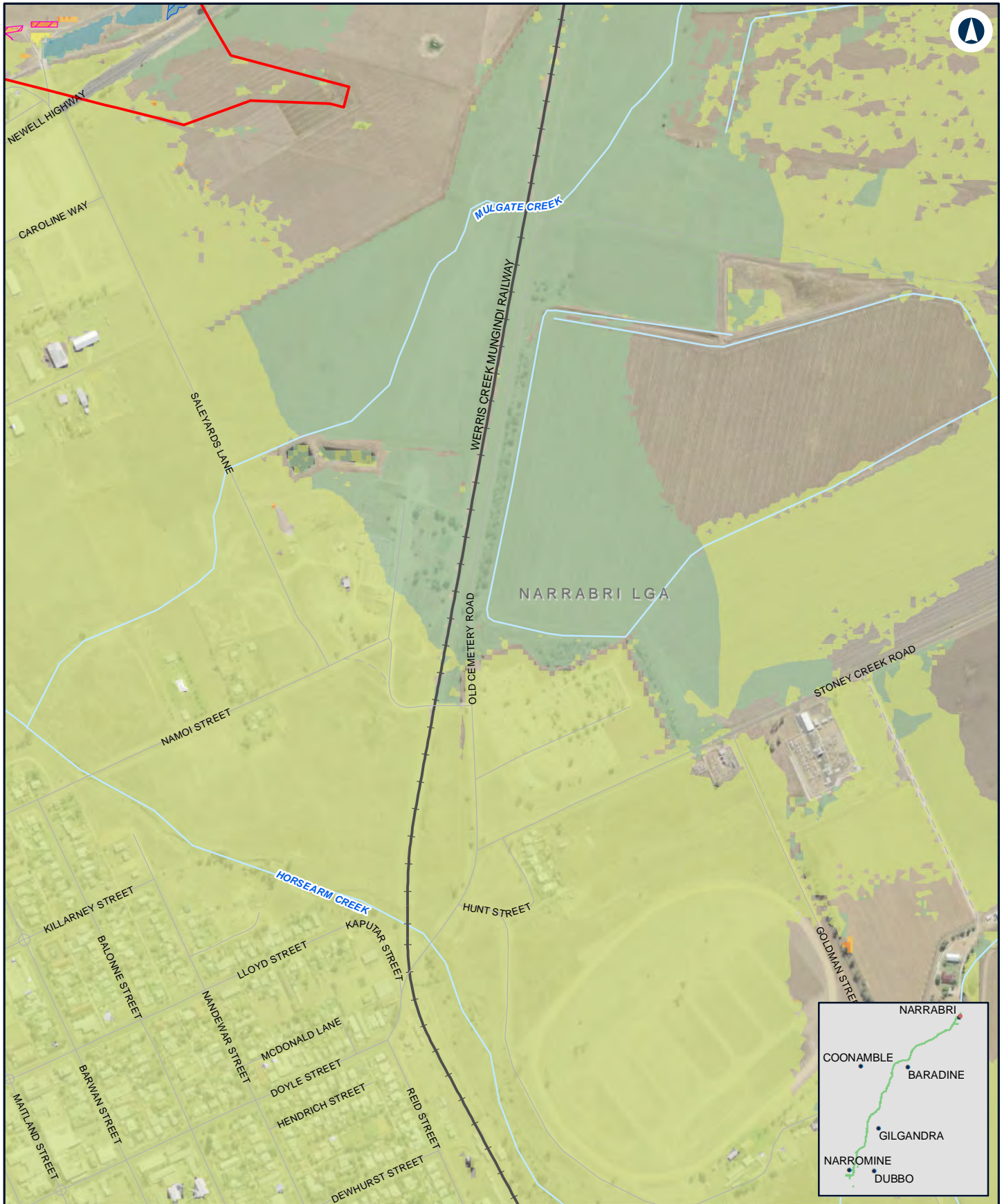
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2c

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

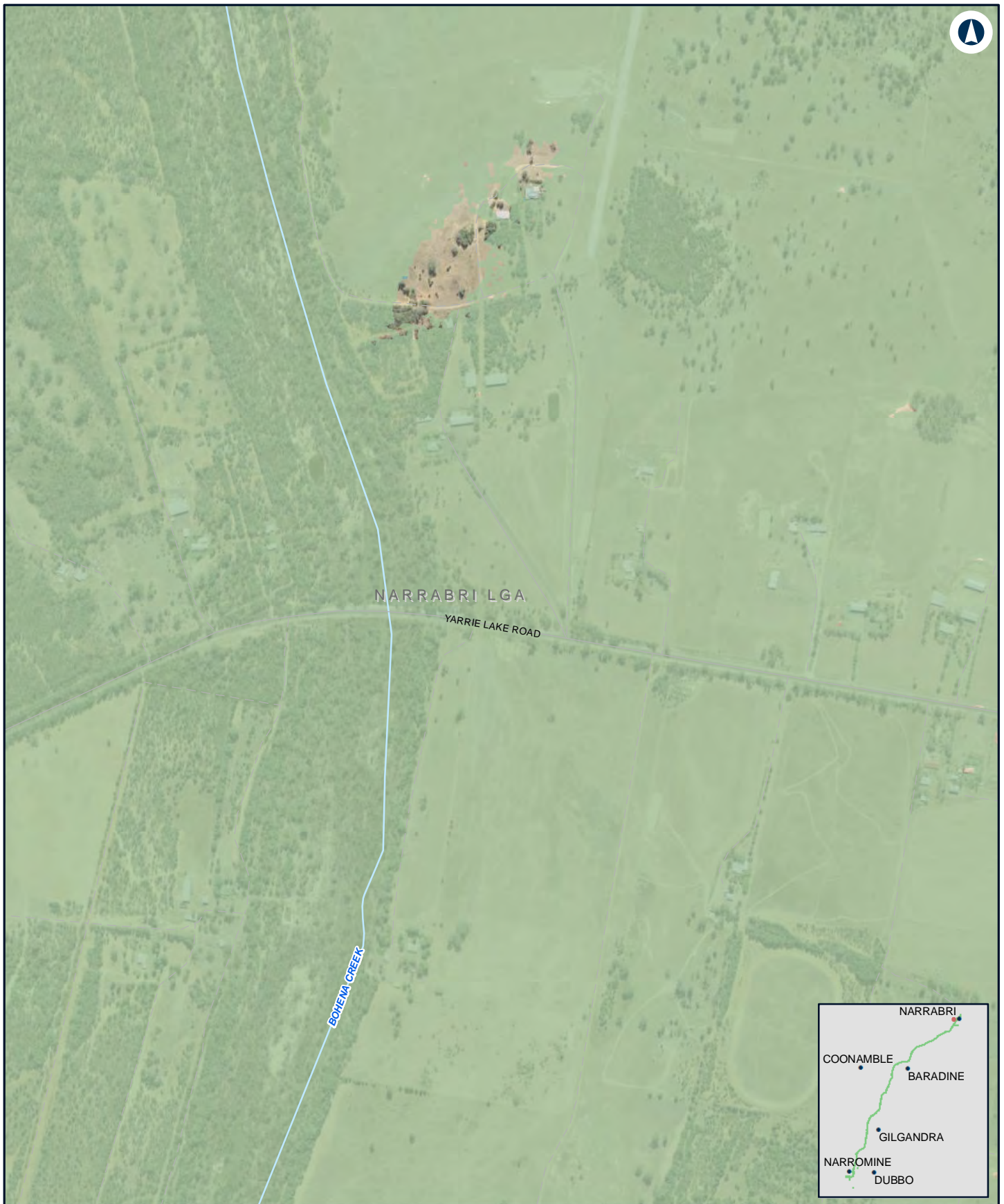
> 0.5 m increase

Was dry now wet

Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2d

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

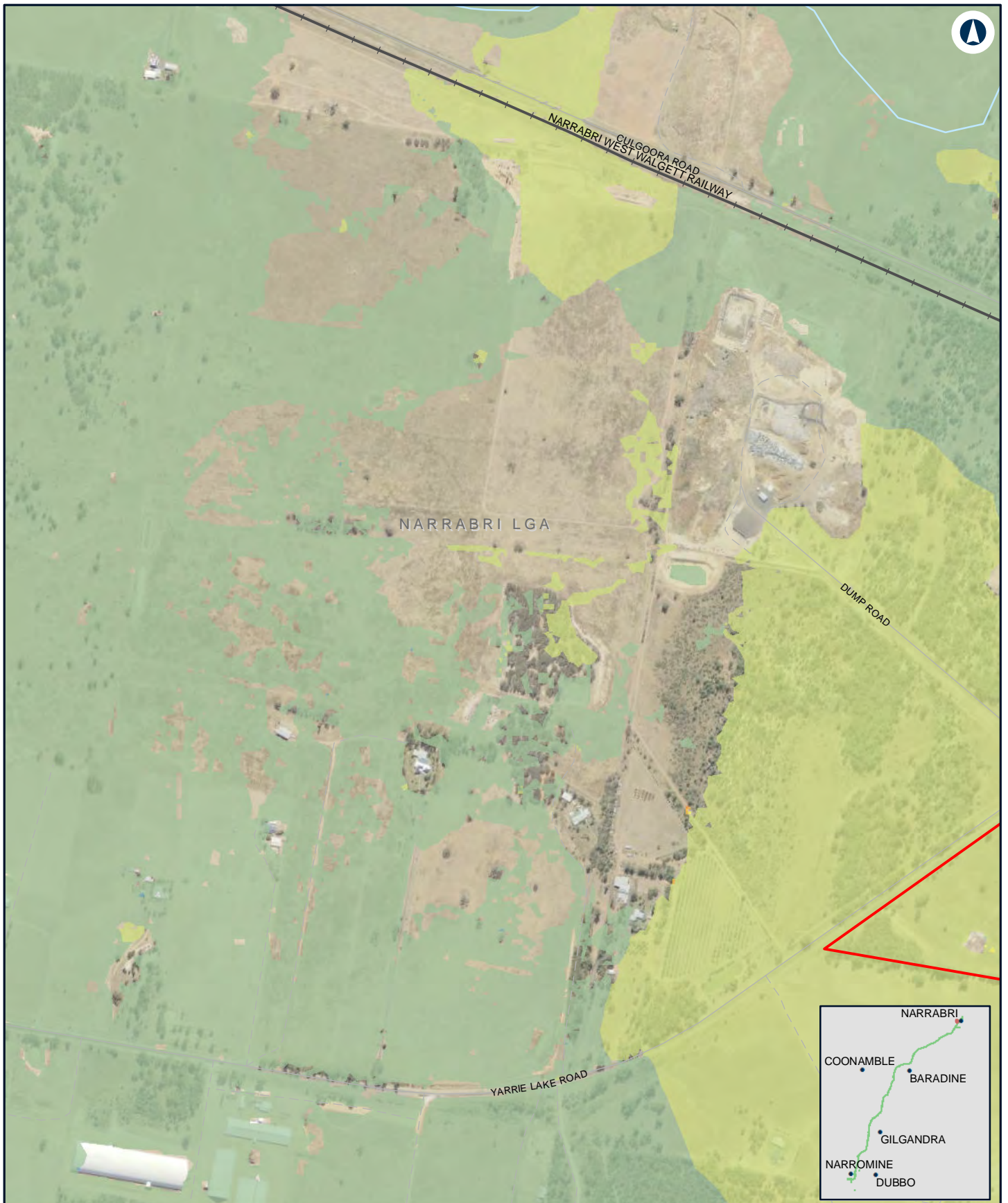
Afflux

- > 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
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2e

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

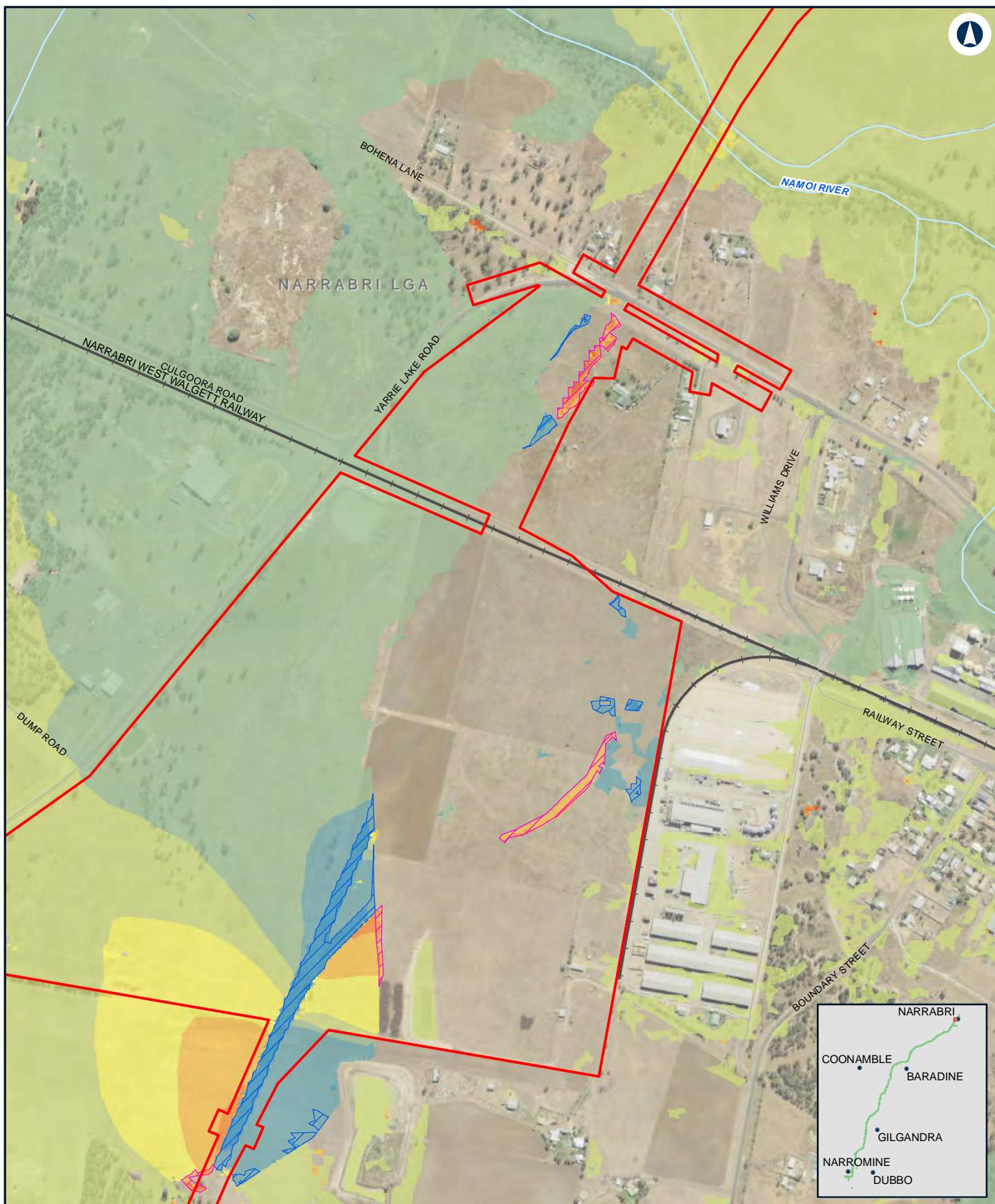
 > 0.5 m increase

 Was dry now wet

 Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2f

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

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

 Was dry now wet

 Was wet now dry

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NARRABRI TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2g

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

LEGEND

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
- Was dry now wet
- Was wet now dry

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NARRABRI TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2h

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

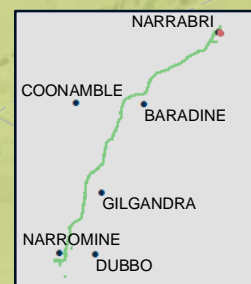
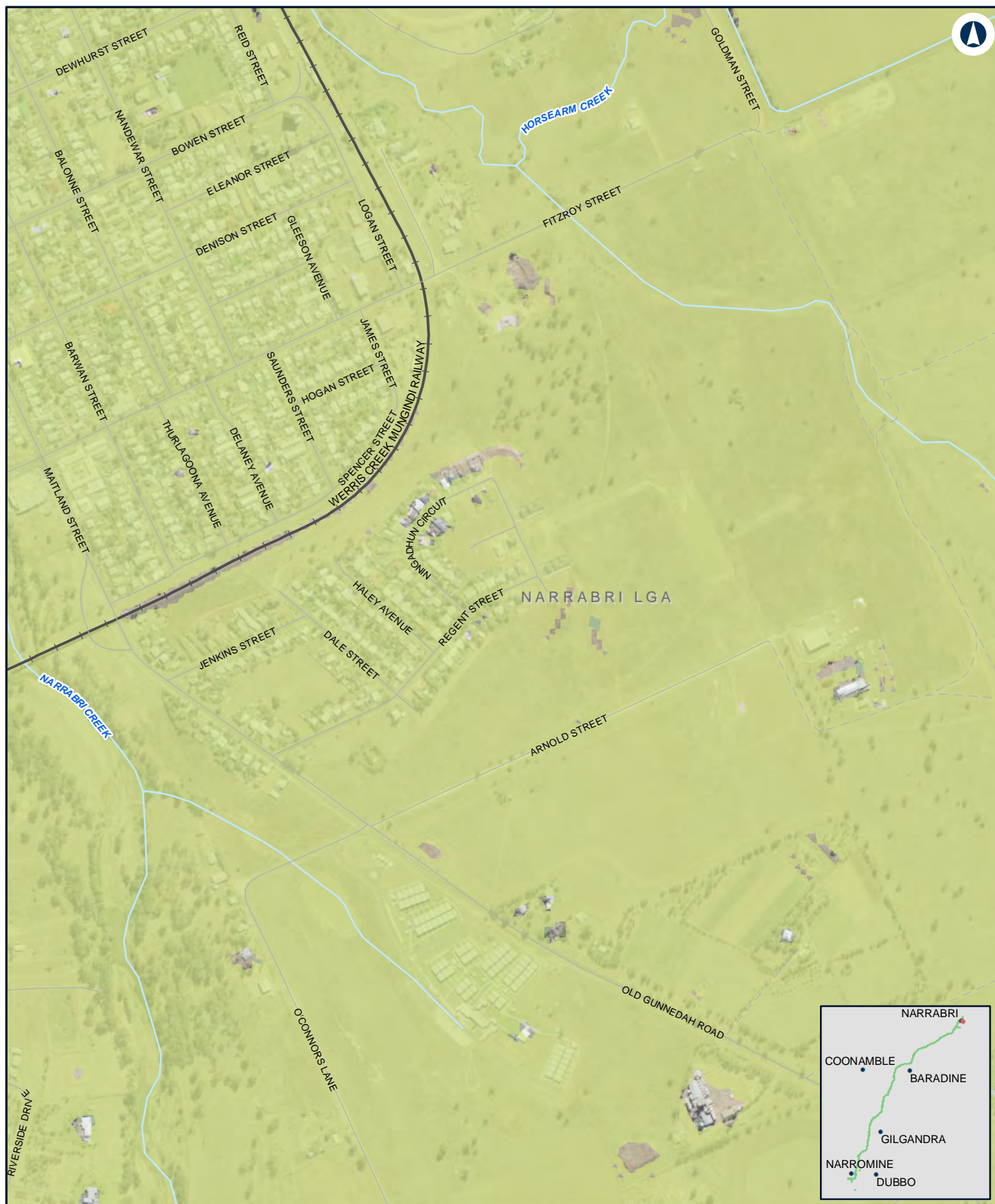
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2i

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

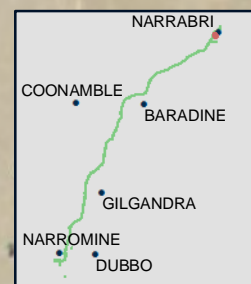
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2j

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 6/11/2020

Paper: A4

Author: JacobsGHD

Scale: 1:10,000

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

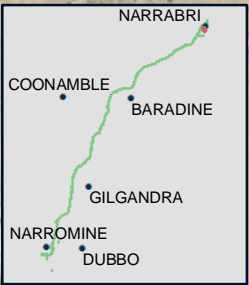
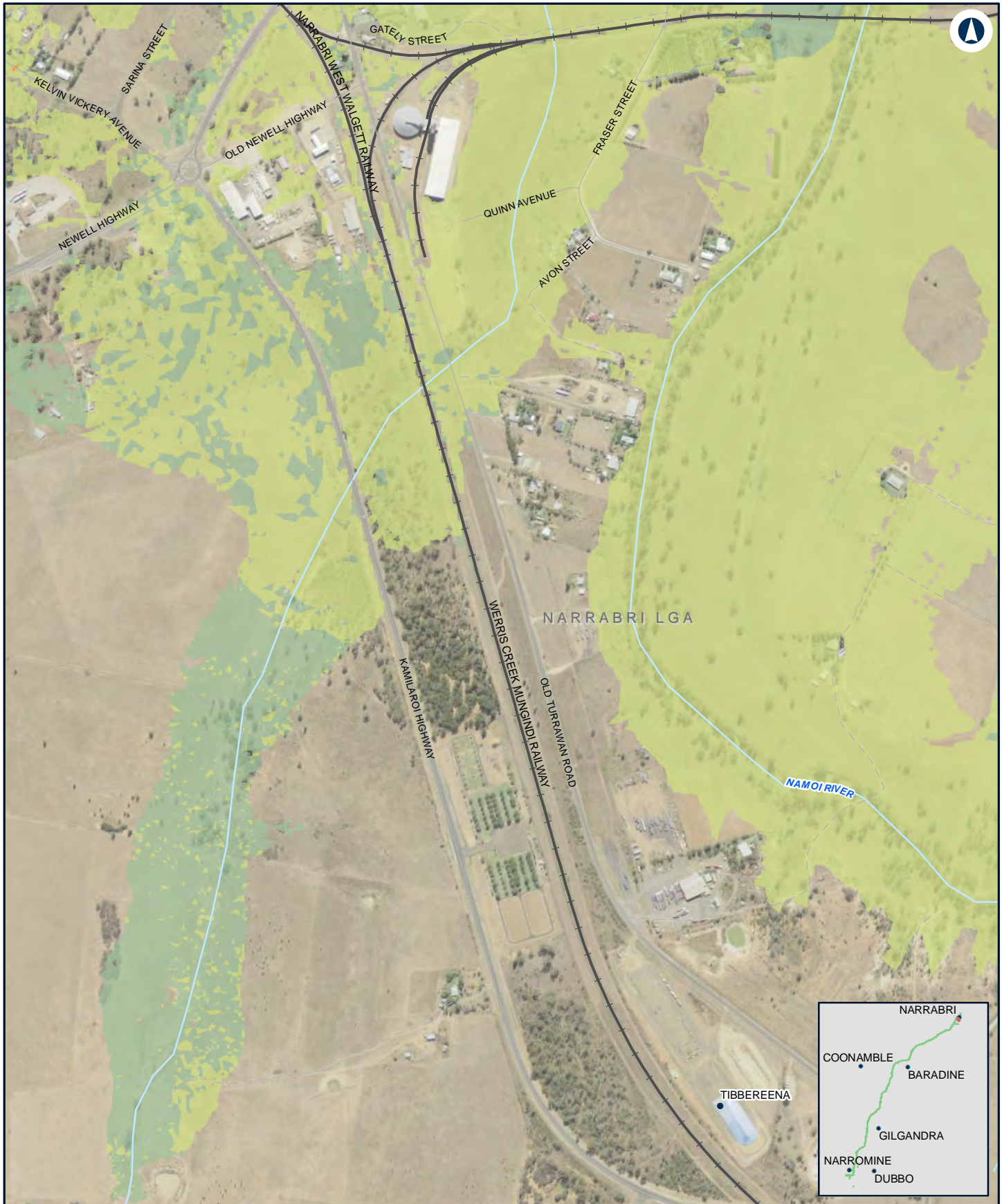
LEGEND

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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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NARROMINE TO NARRABRI Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri Appendix H - Figure 2.2k

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 6/11/2020 Paper: A4
 Author: JacobsGHD Scale: 1:10,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

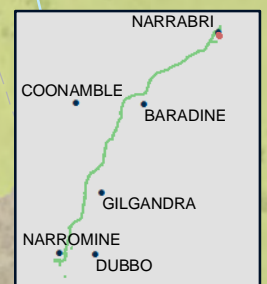
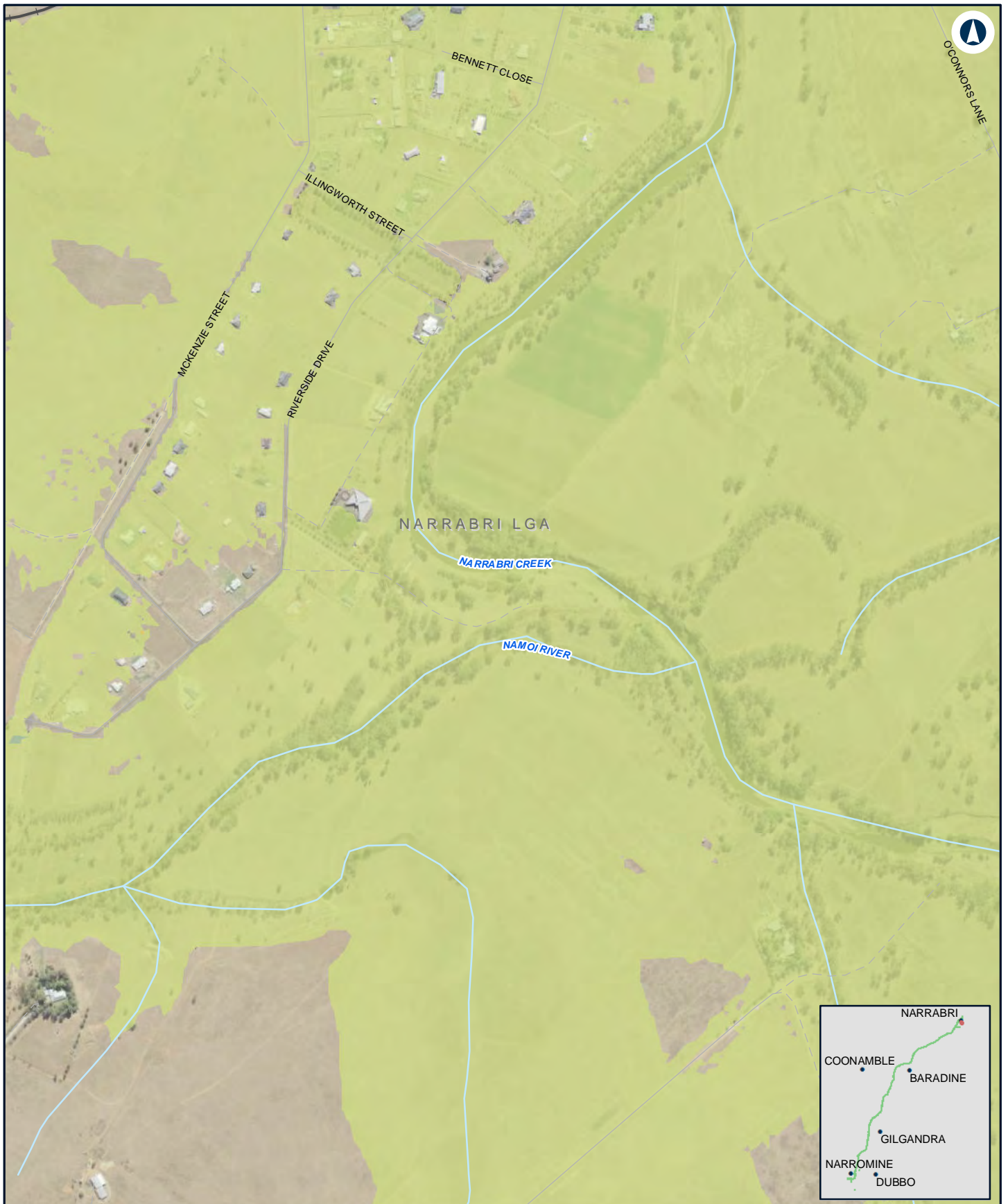
Afflux

- > 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
- Was dry now wet
- Was wet now dry

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NARROMINE TO NARRABRI

Change in peak flood level (afflux) - Detail - 1% AEP - Narrabri

Appendix H - Figure 2.2I

0 0.1 0.2
Km

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:10,000

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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	Was dry now wet
0.01 m - 0.05 m increase	Was wet now dry
0.05 m - 0.1 m increase	

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JacobsGHD

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