

TECHNICAL
REPORT

INLAND
RAIL 

3

Flooding and hydrology assessment

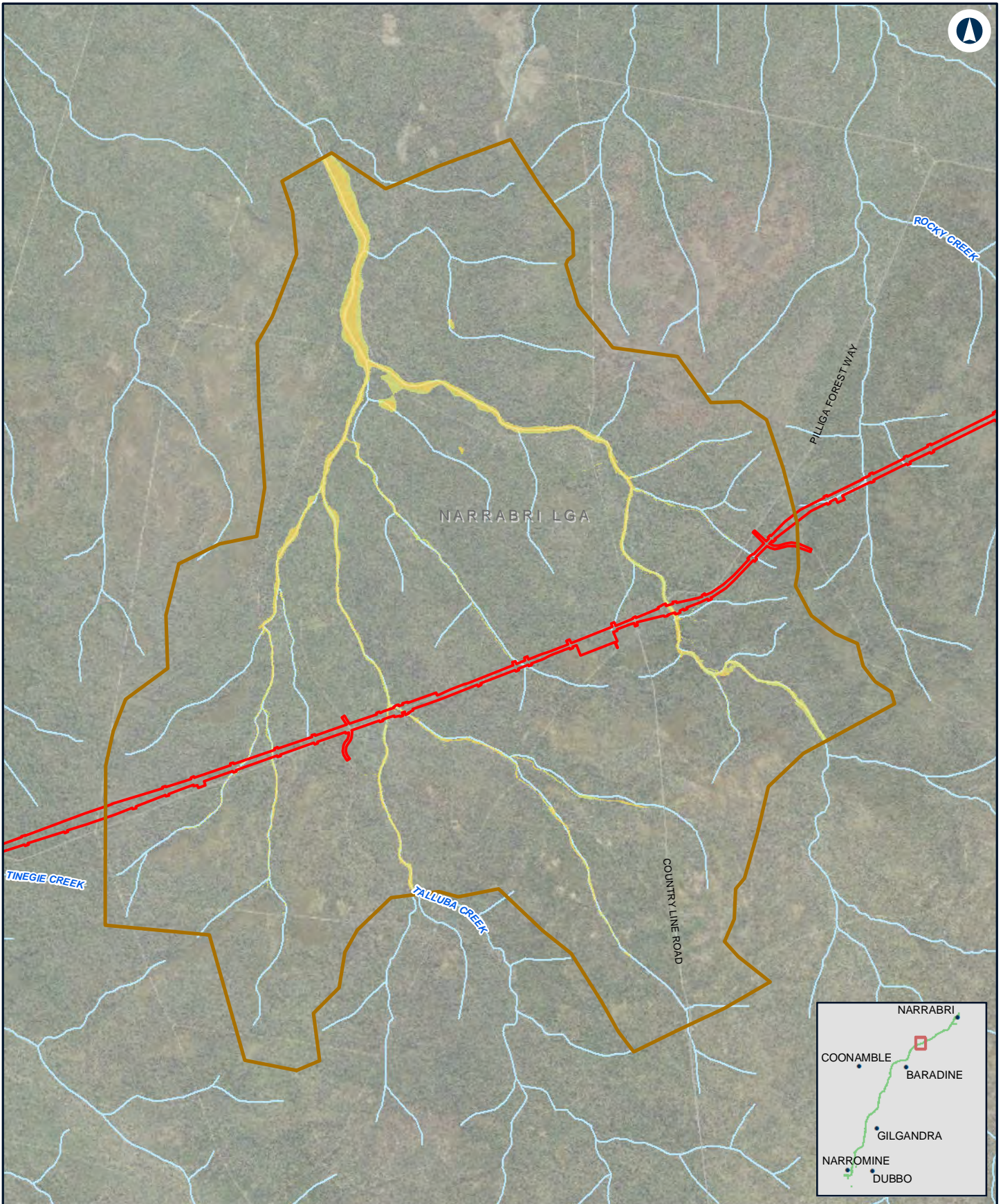
PART 9 OF 12

Appendix G continued...

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.



NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N5

Appendix G - Figure 3.1j



Coordinate System: GDA 1994 MGA Zone 55

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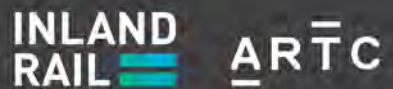
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 Author: JacobsGHD Scale: 1:70,000

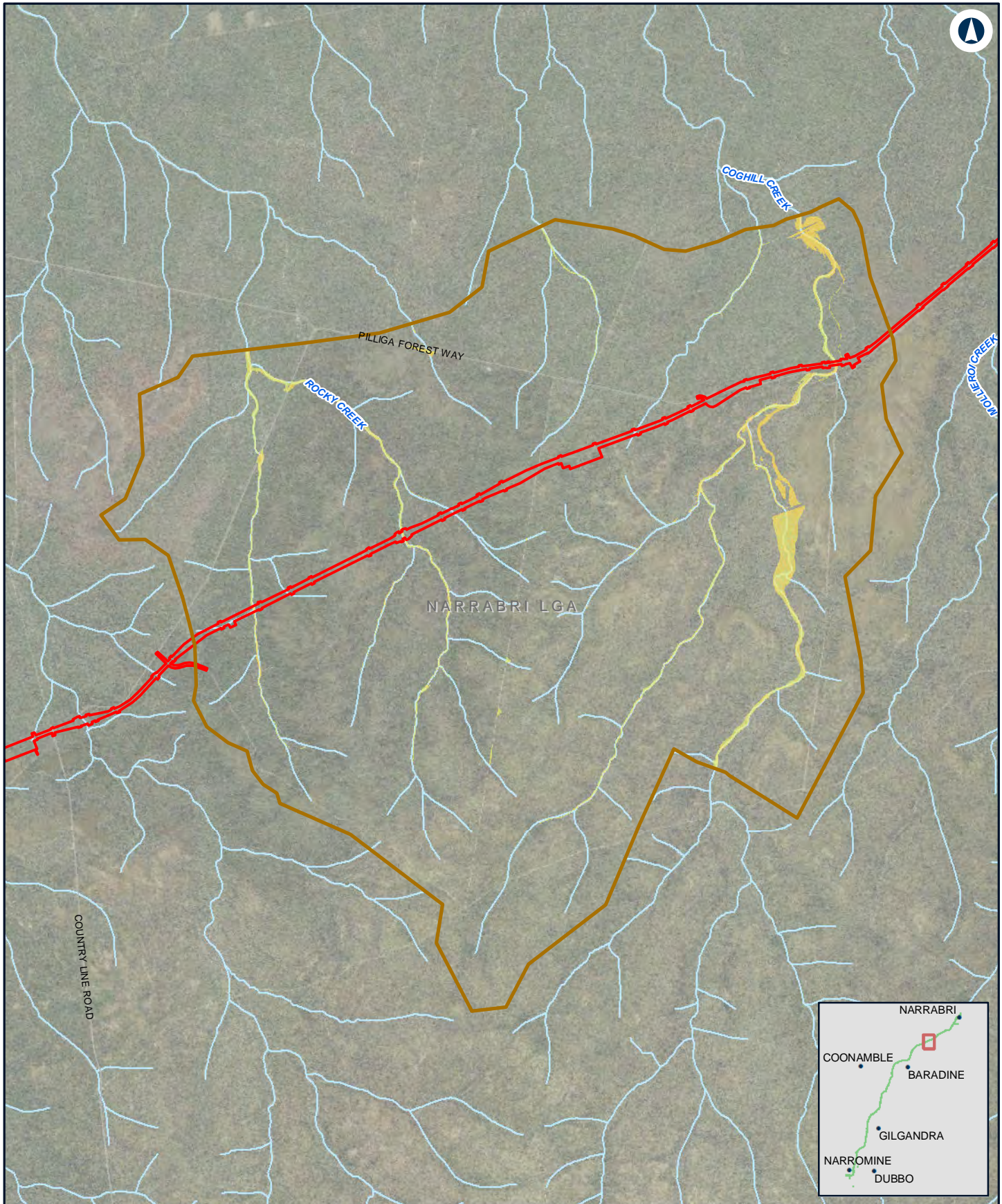
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



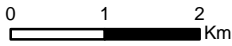
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N4

Appendix G - Figure 3.1k



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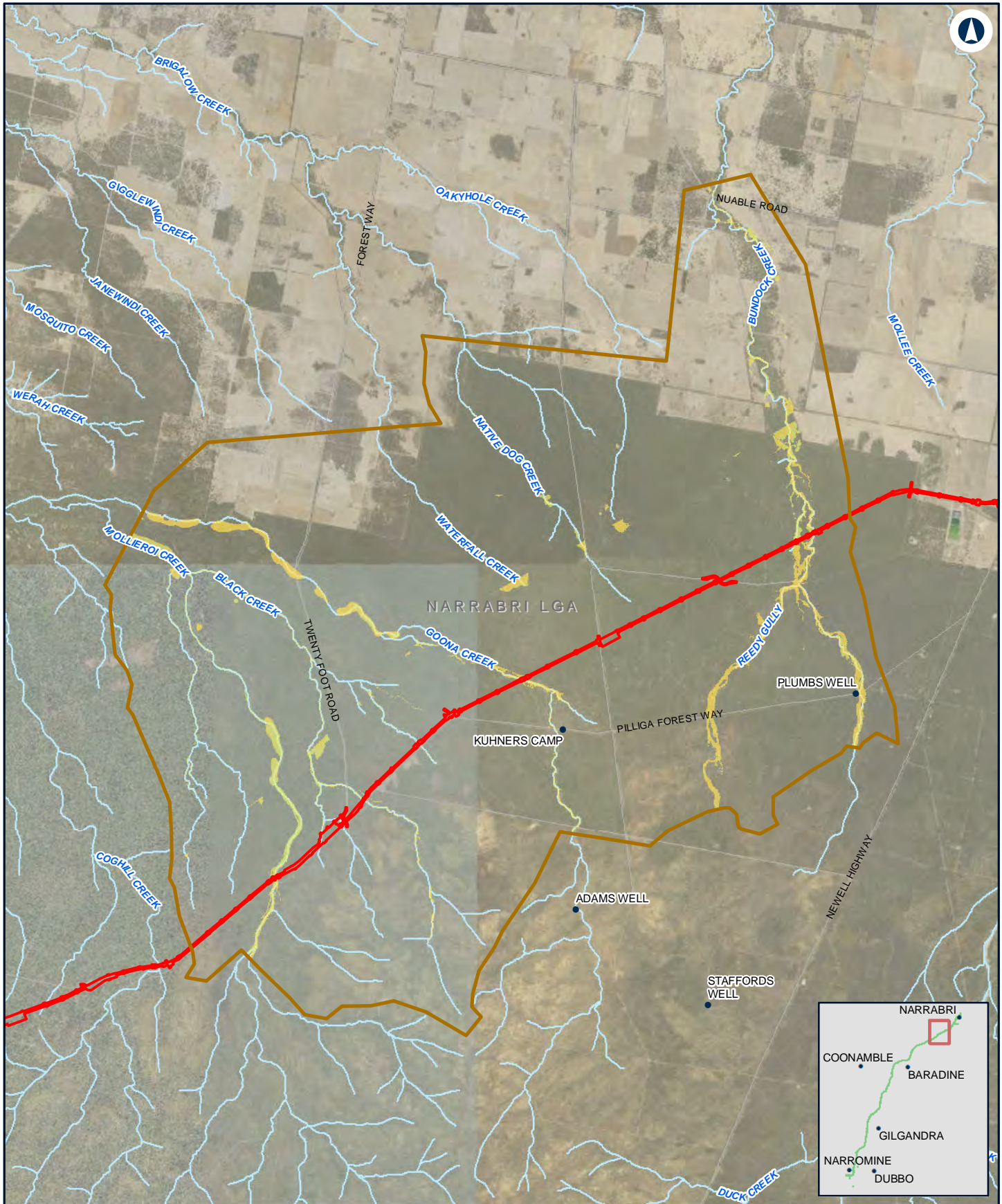
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

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- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 12 hr - 24 hr increase
- > 24 hr increase



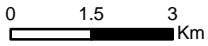
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 20% AEP - N2N23

Appendix G - Figure 3.11

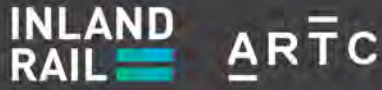


Coordinate System: GDA 1994 MGA Zone 55
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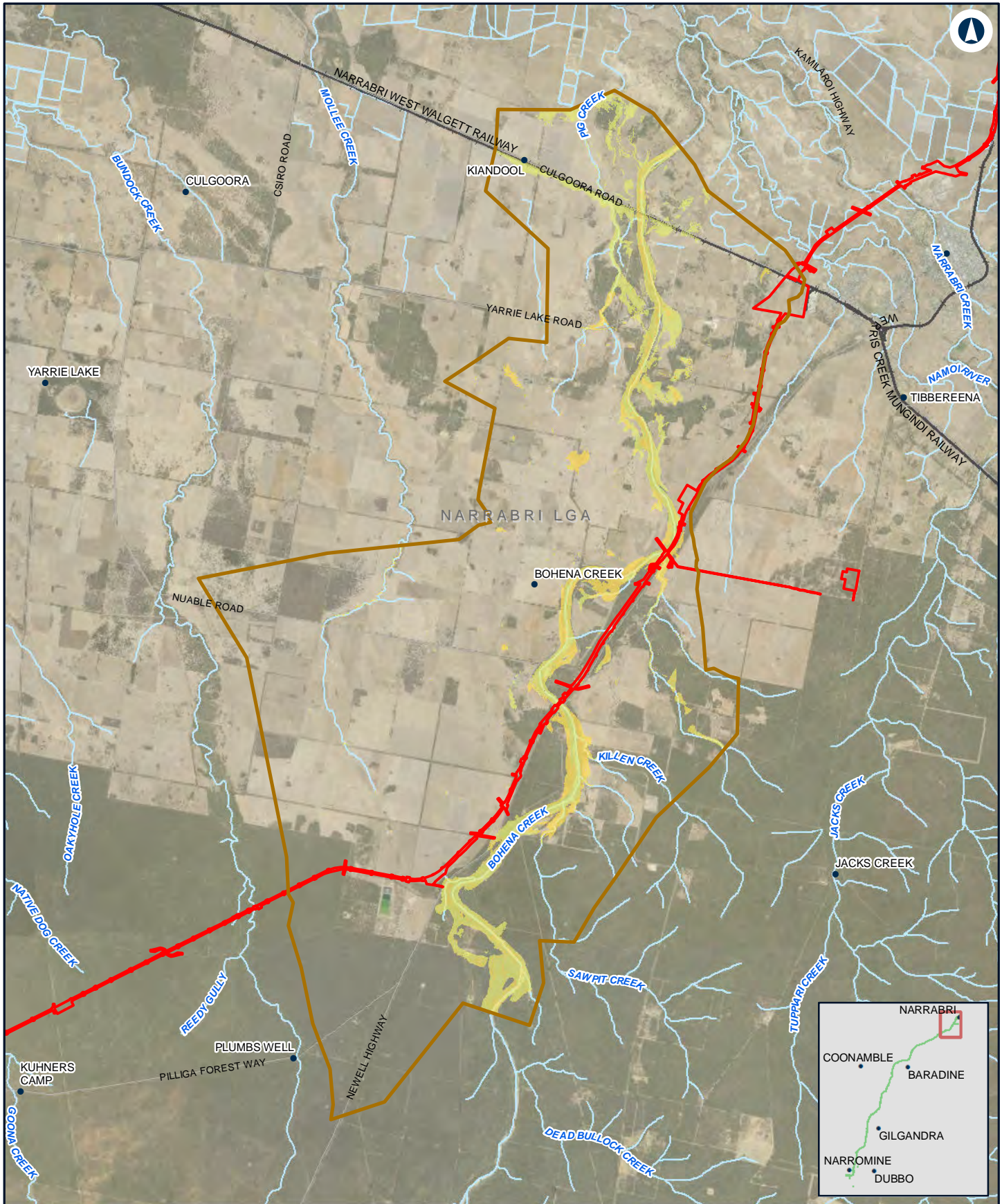
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



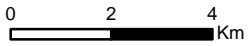
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARRABRI TO NARRABRI

Change in duration - 20% AEP - N2N1

Appendix G - Figure 3.1m

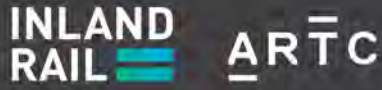


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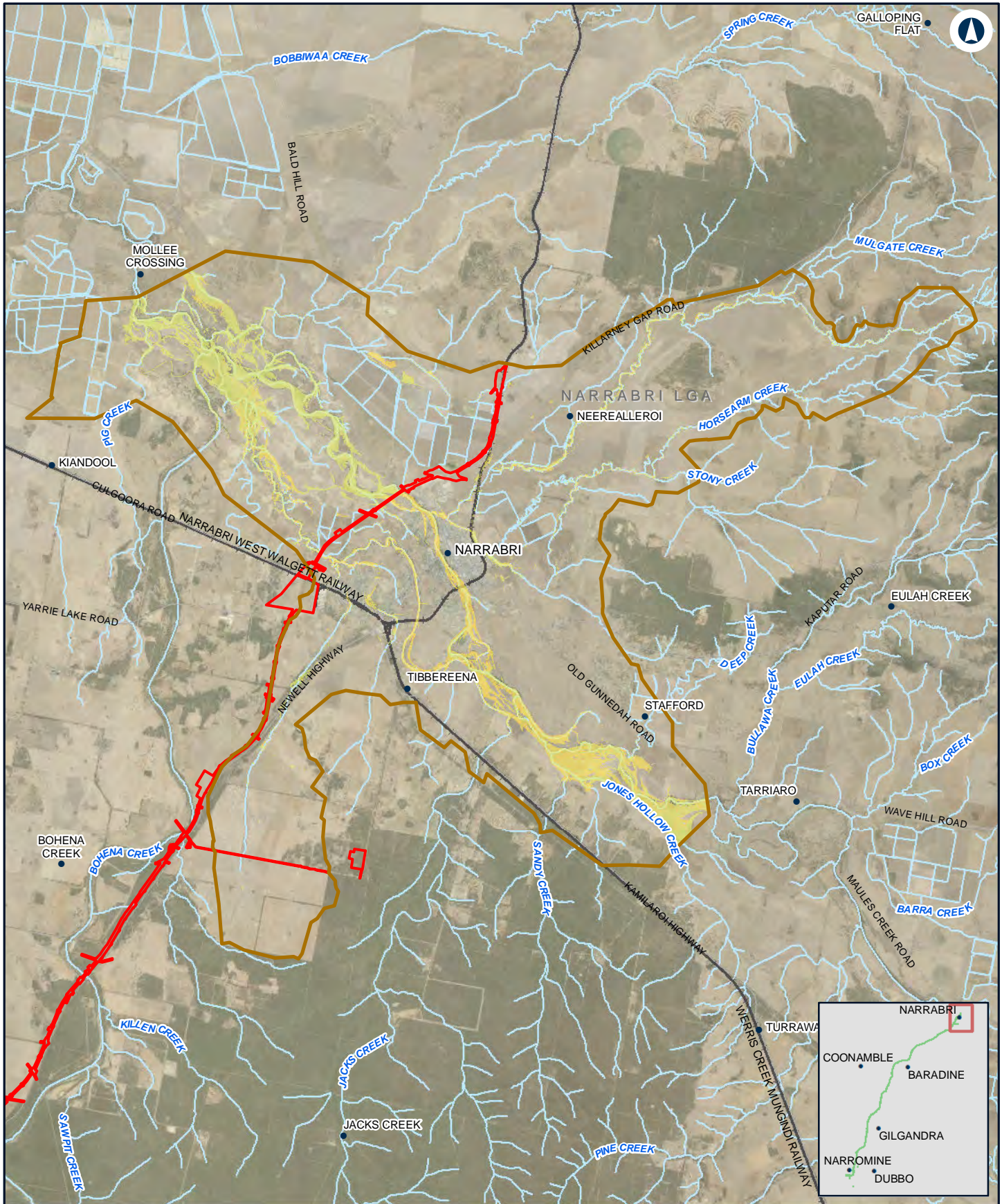
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- Model boundary
- Duration Change**
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- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



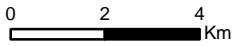
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 20% AEP - Narrabri

Appendix G - Figure 3.1n



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Date: 27/10/2020
 Author: JacobsGHD
 Paper: A4
 Scale: 1:160,000

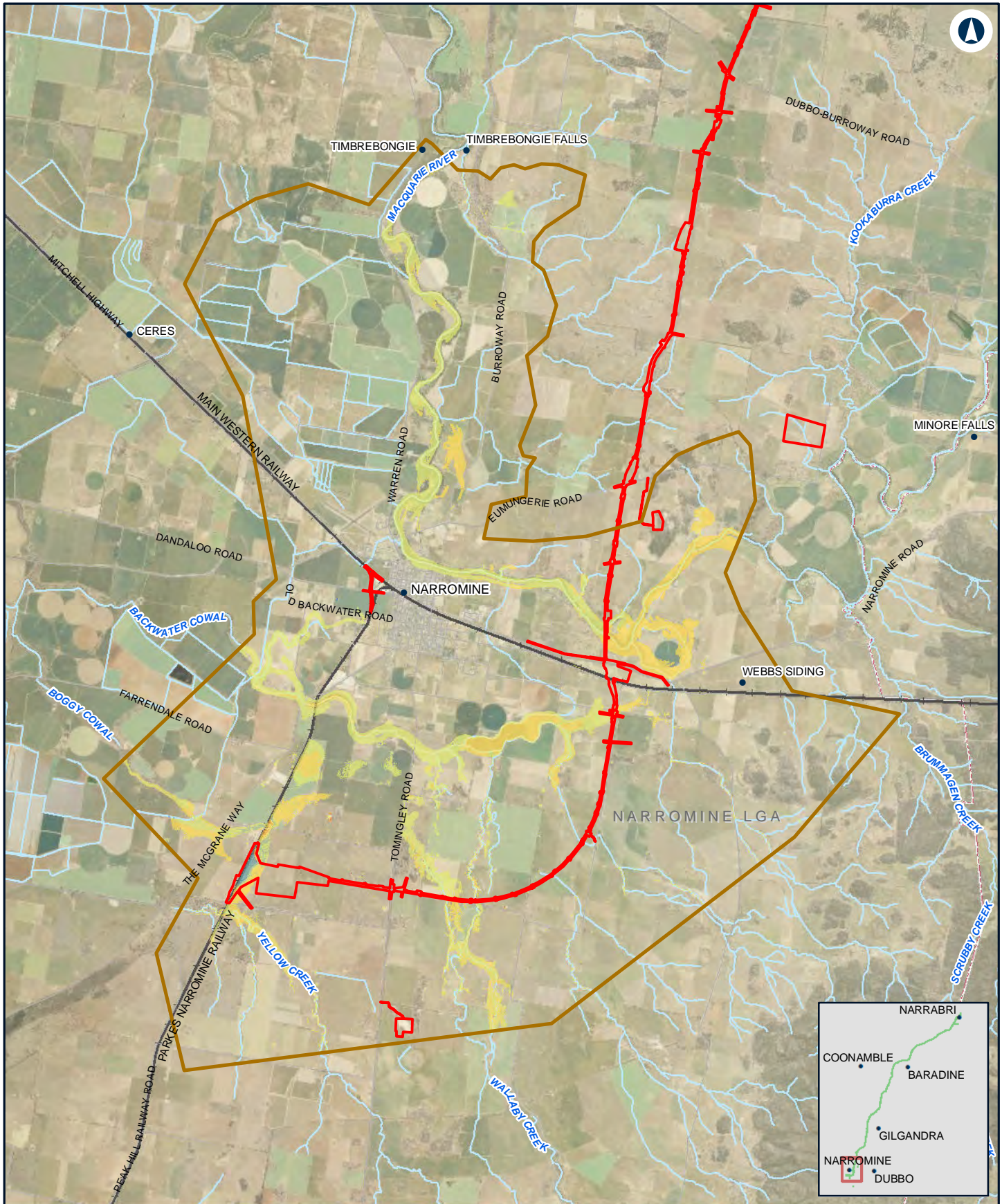
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
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- 6 hr - 12 hr decrease
- > 24 hr increase
- 3 hr - 6 hr decrease



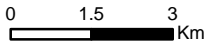
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - NFM

Appendix G - Figure 3.2a

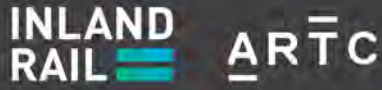


Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 3 hr - 6 hr increase
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- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease



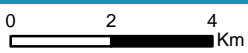
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N14

Appendix G - Figure 3.2b



LEGEND

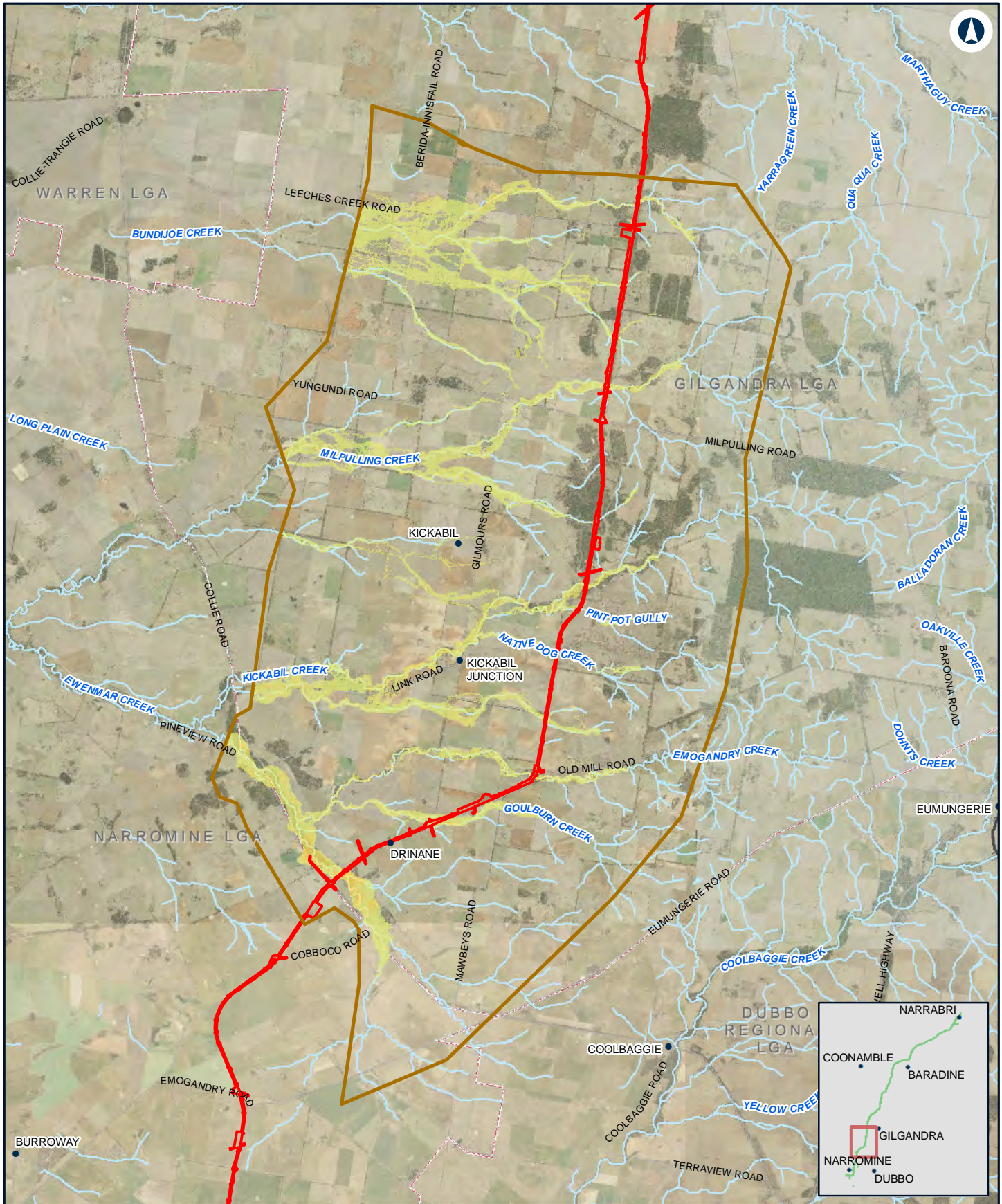
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- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



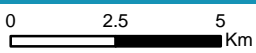
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N13

Appendix G - Figure 3.2c



LEGEND

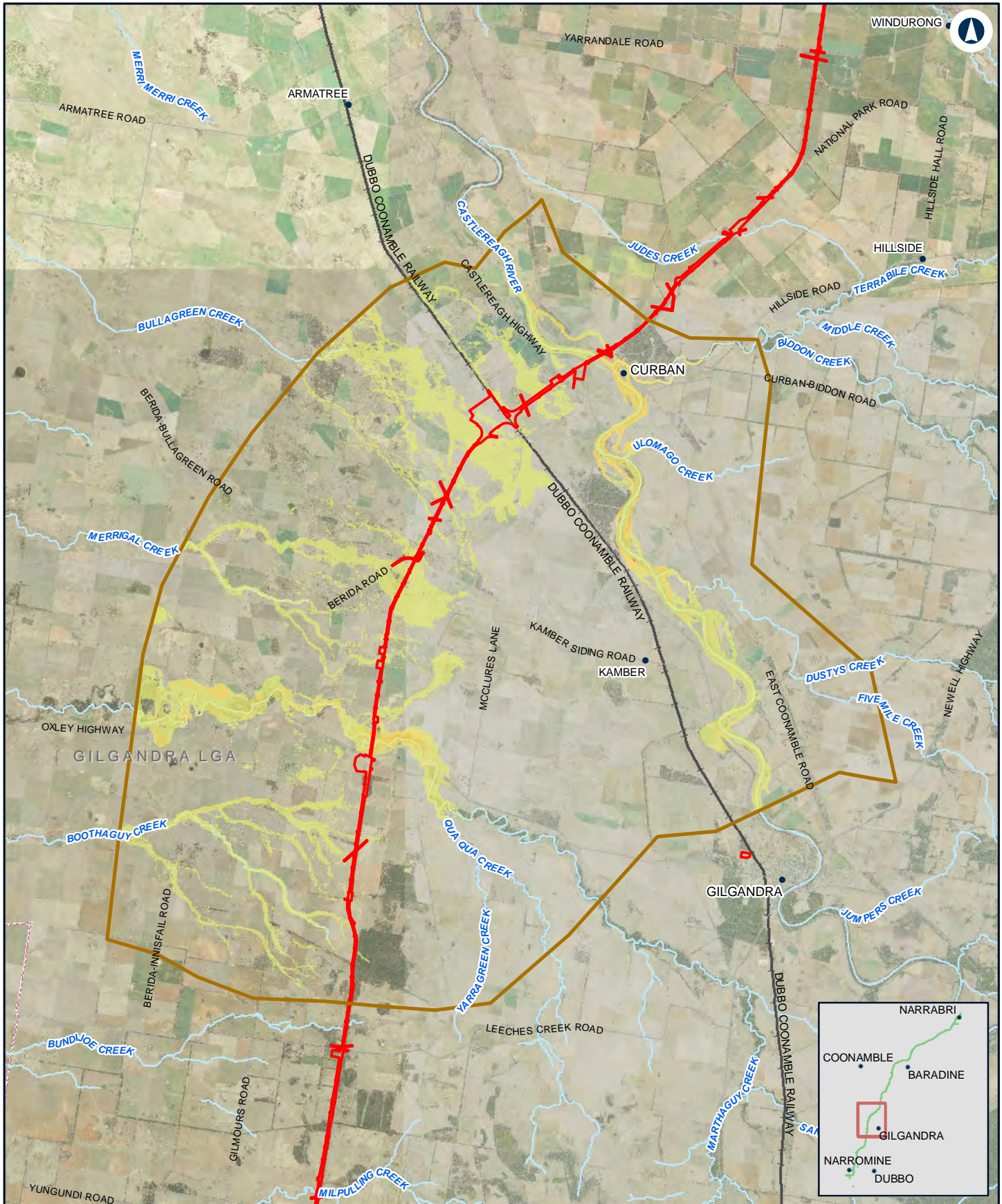
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- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



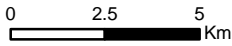
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N11N12

Appendix G - Figure 3.2d



LEGEND

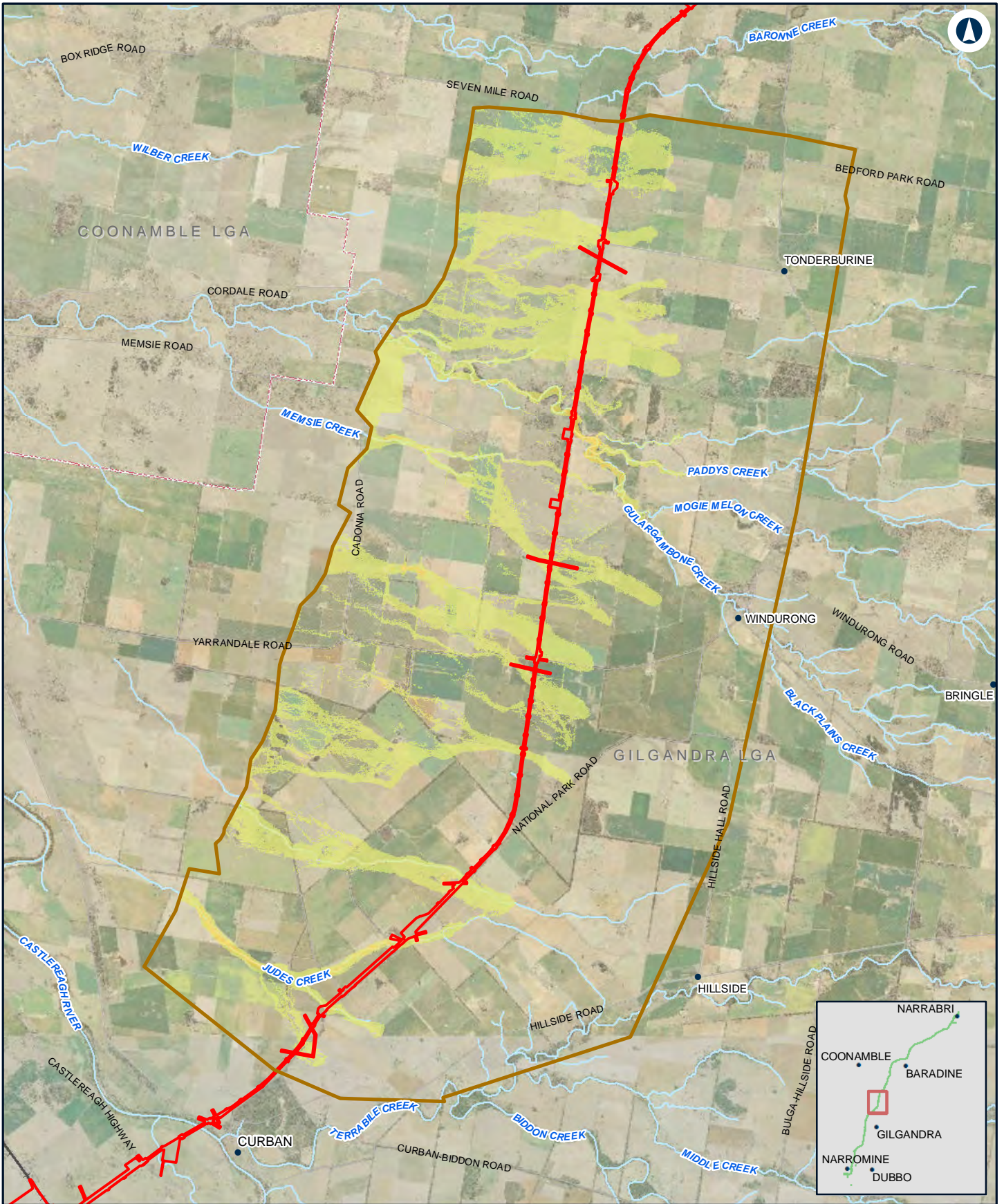
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- Model boundary
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



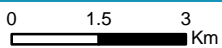
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N10

Appendix G - Figure 3.2e



Coordinate System: GDA 1994 MGA Zone 55

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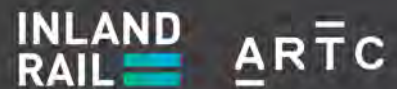
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

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

LEGEND

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- Duration Change**
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- > 24 hr increase



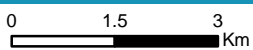
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N9

Appendix G - Figure 3.2f



Coordinate System: GDA 1994 MGA Zone 55

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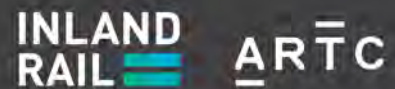
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000

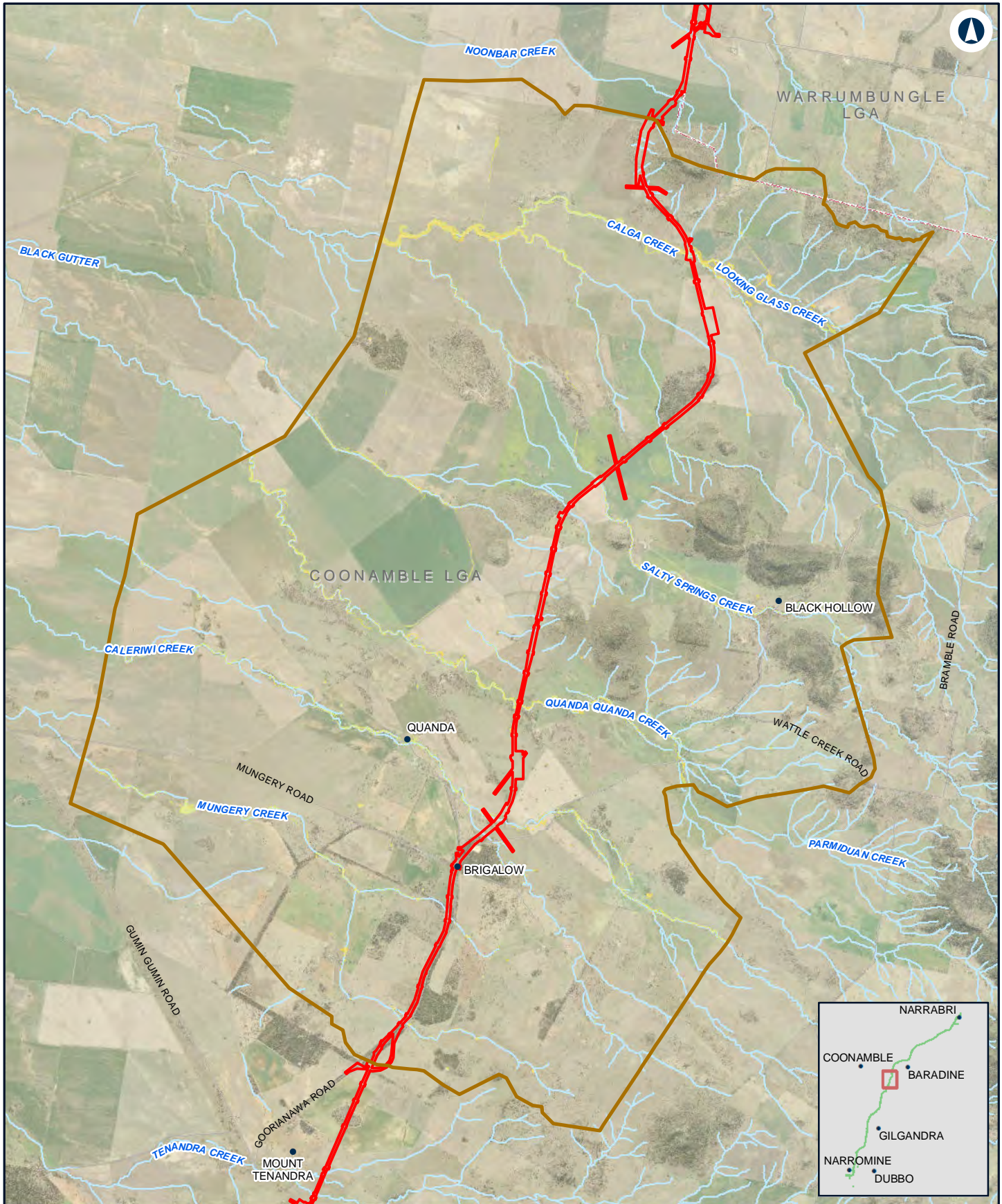
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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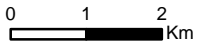
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N8

Appendix G - Figure 3.2g



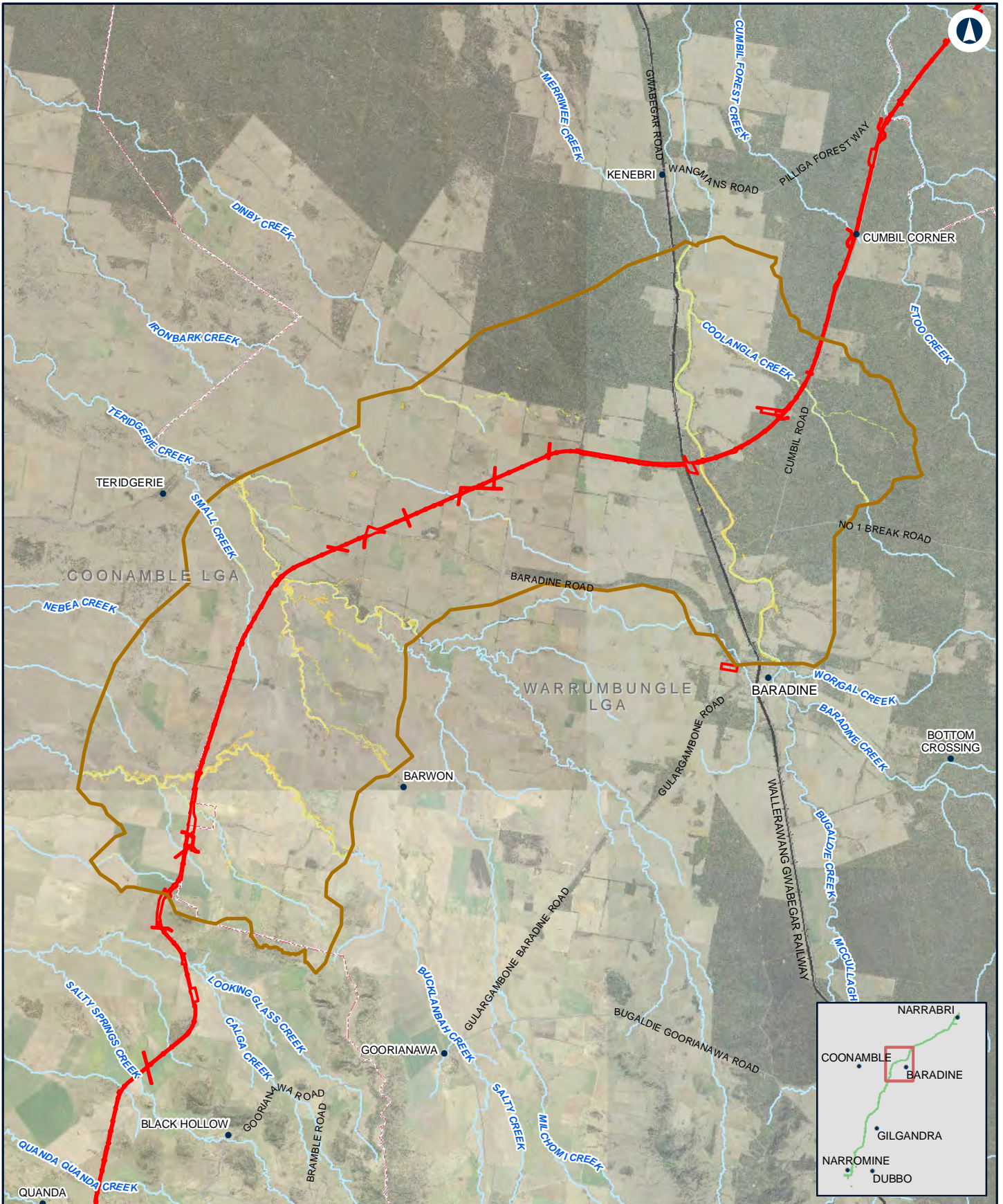
Coordinate System: GDA 1994 MGA Zone 55
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 Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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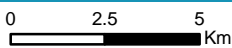
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARRABRIE TO NARRABRI

Change in duration - 5% AEP - N2N7

Appendix G - Figure 3.2h



Coordinate System: GDA 1994 MGA Zone 55

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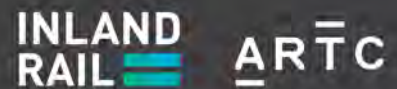
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

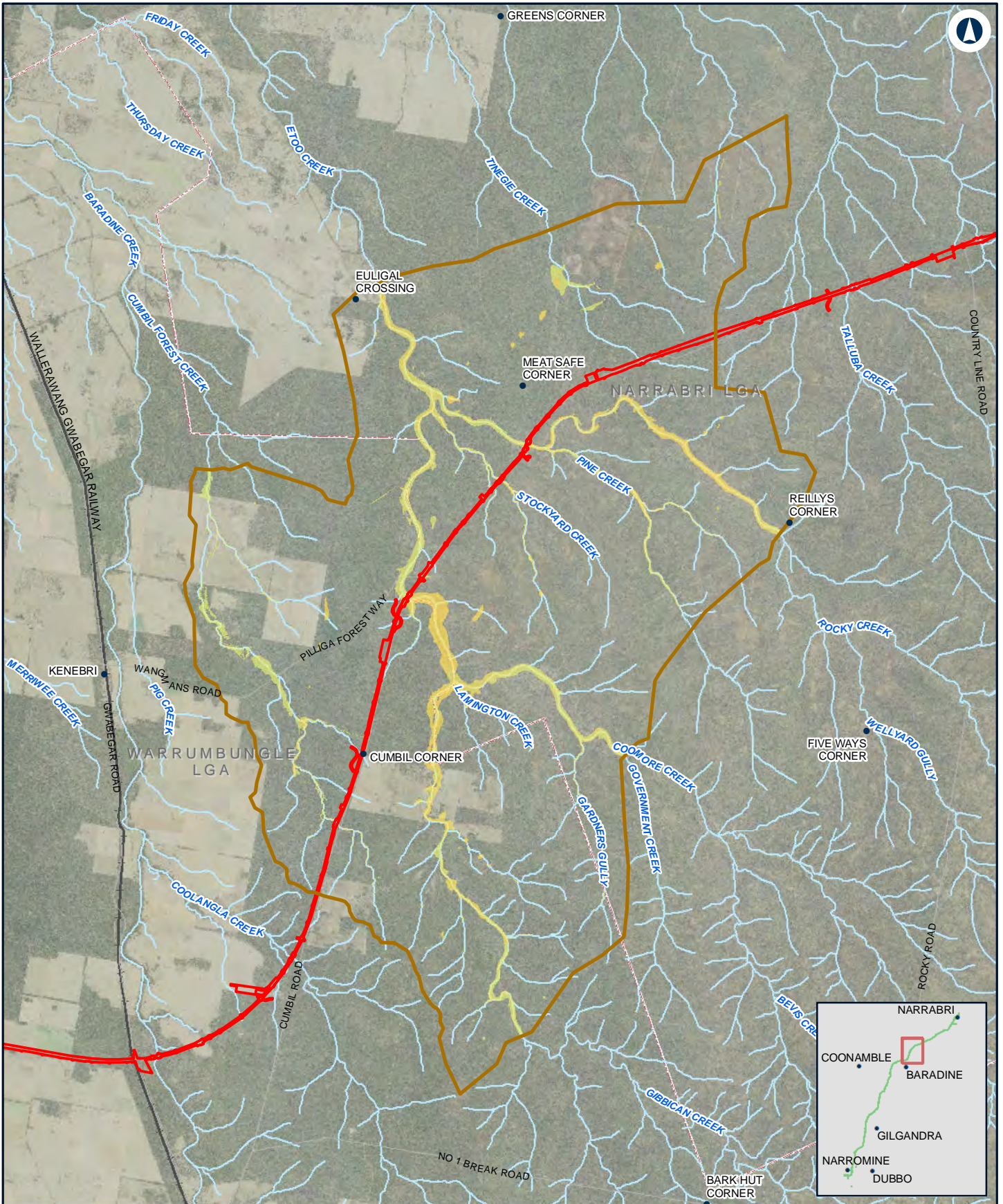
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr increase
- > 24 hr increase



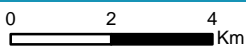
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N6

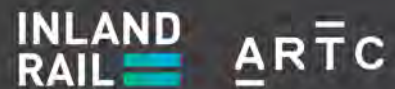
Appendix G - Figure 3.2i



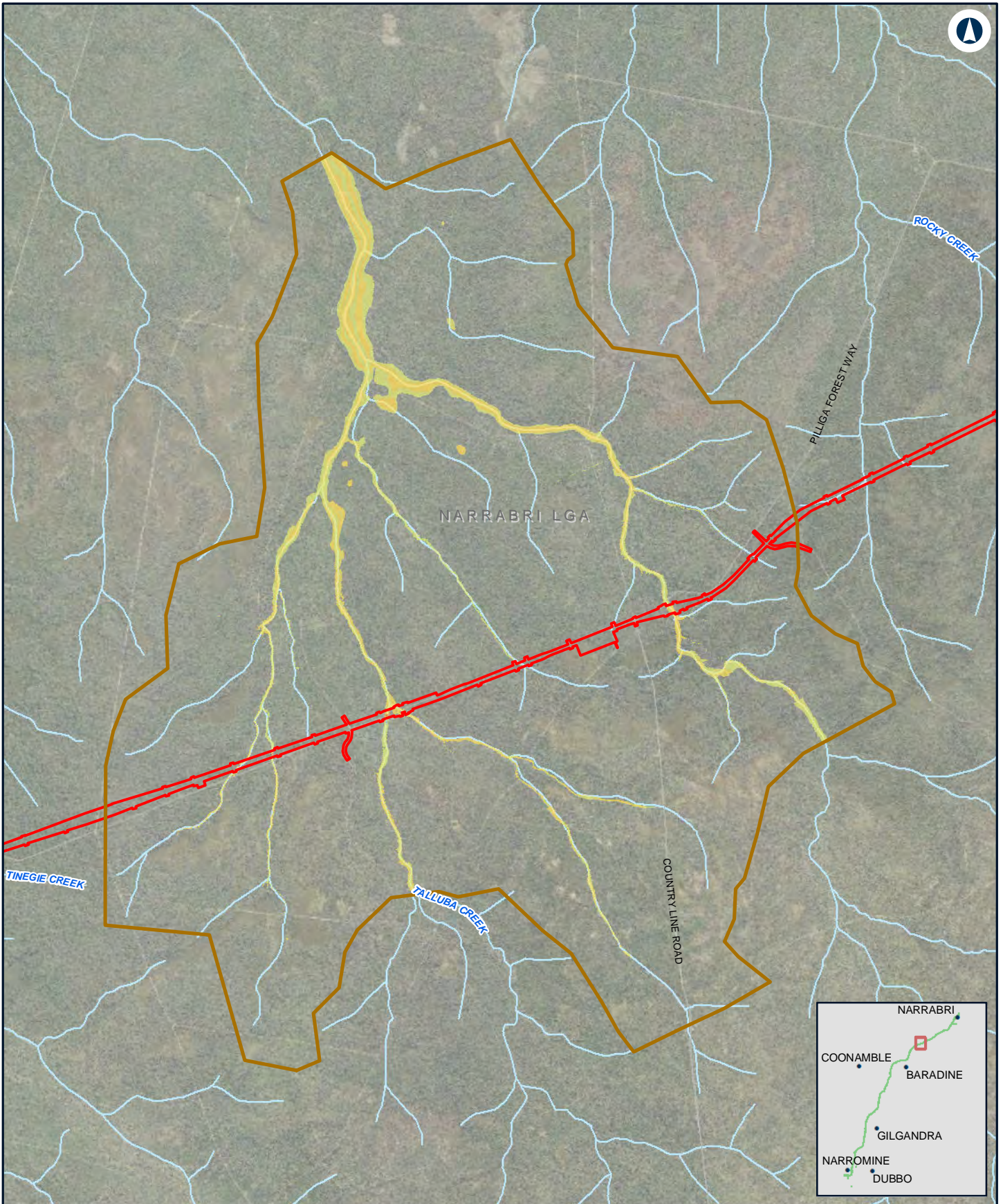
LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr increase
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- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease

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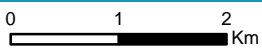
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N5

Appendix G - Figure 3.2j



Coordinate System: GDA 1994 MGA Zone 55

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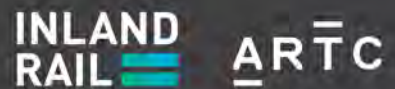
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

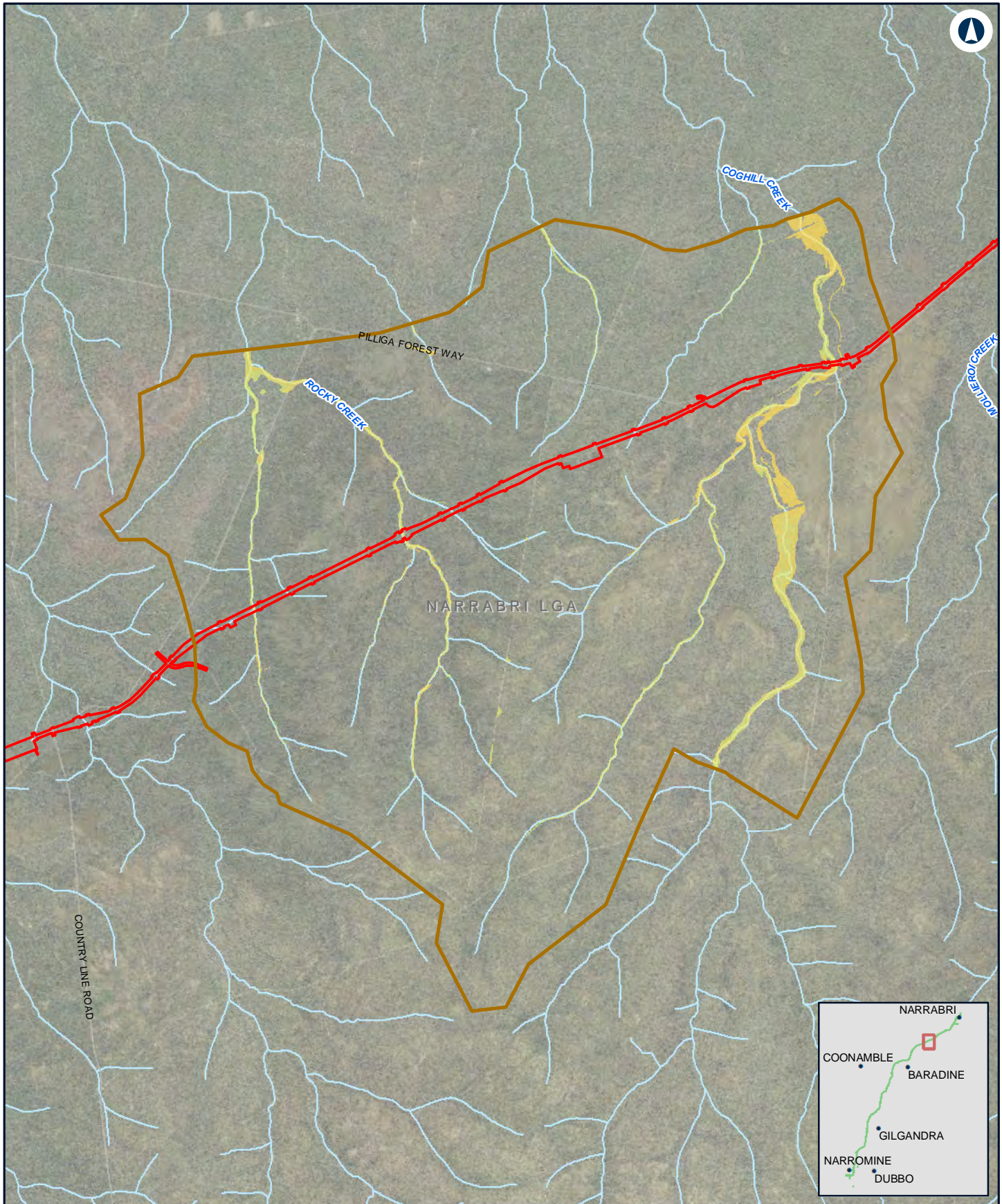
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



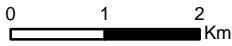
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N4

Appendix G - Figure 3.2k



Coordinate System: GDA 1994 MGA Zone 55
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LEGEND

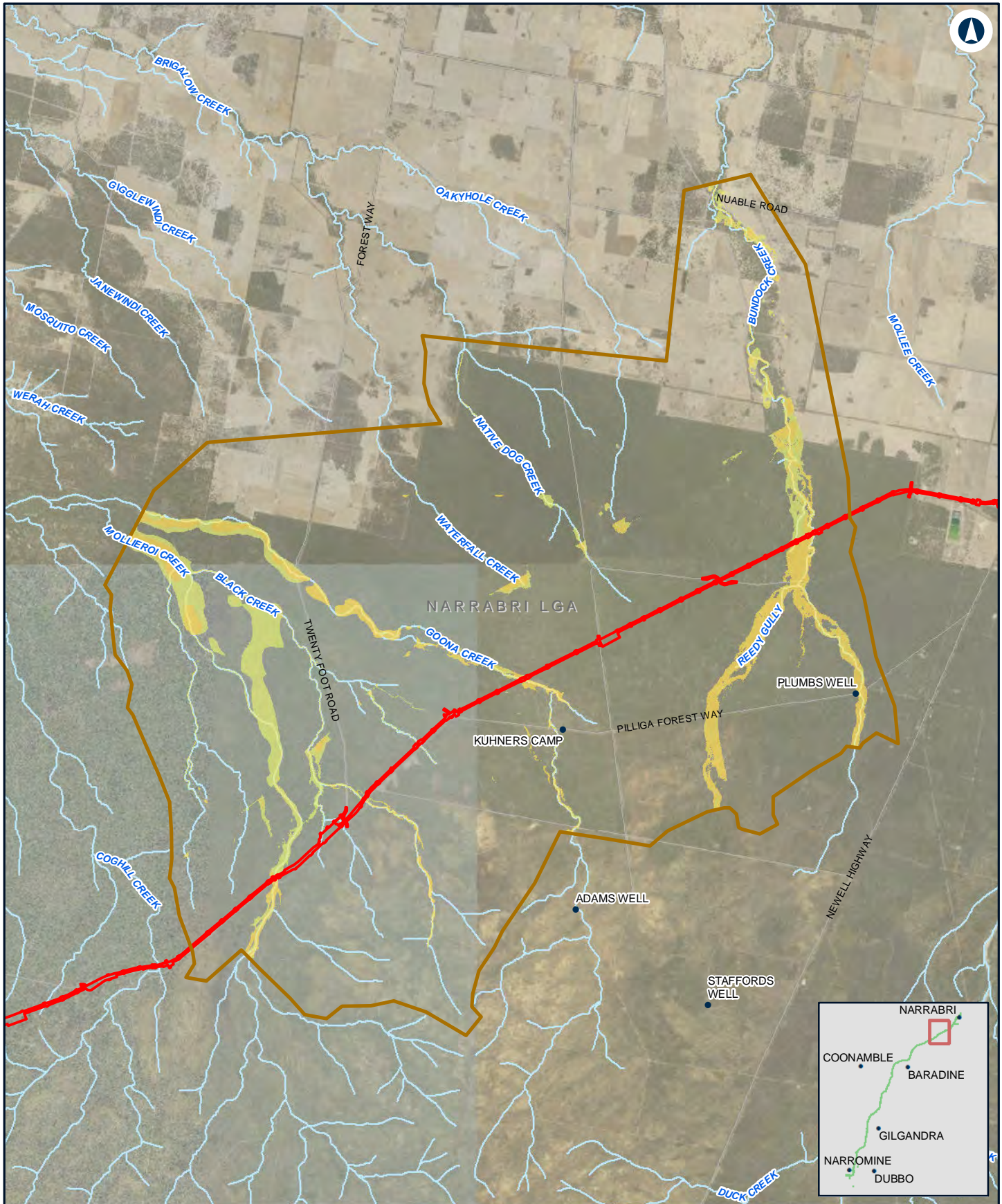
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Date: 27/10/2020
 Author: JacobsGHD
 Paper: A4
 Scale: 1:80,000

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



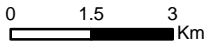
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N23

Appendix G - Figure 3.21

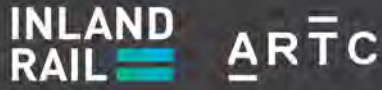


Coordinate System: GDA 1994 MGA Zone 55
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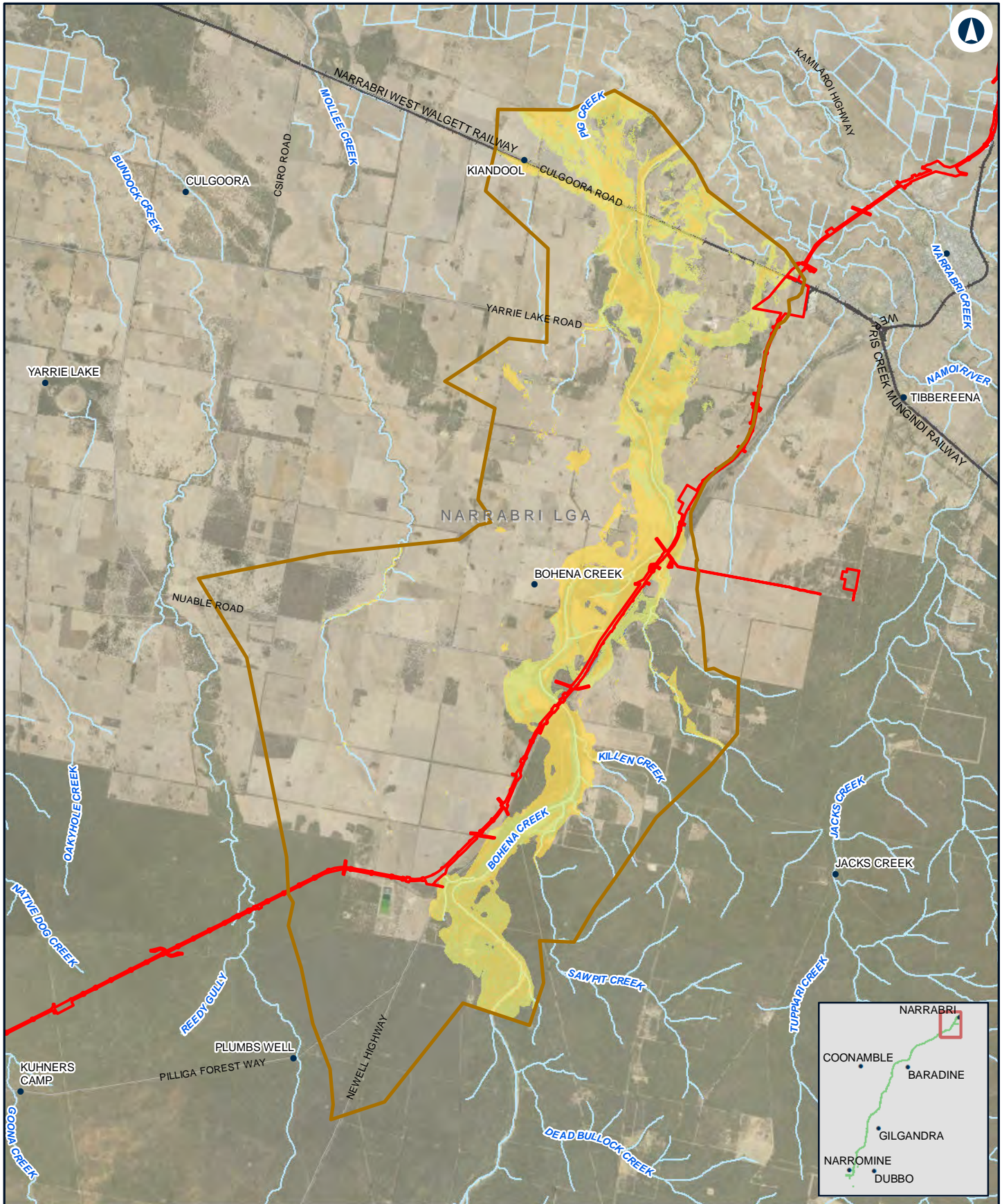
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



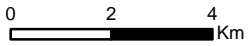
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NARROMINE TO NARRABRI

Change in duration - 5% AEP - N2N1

Appendix G - Figure 3.2m



LEGEND

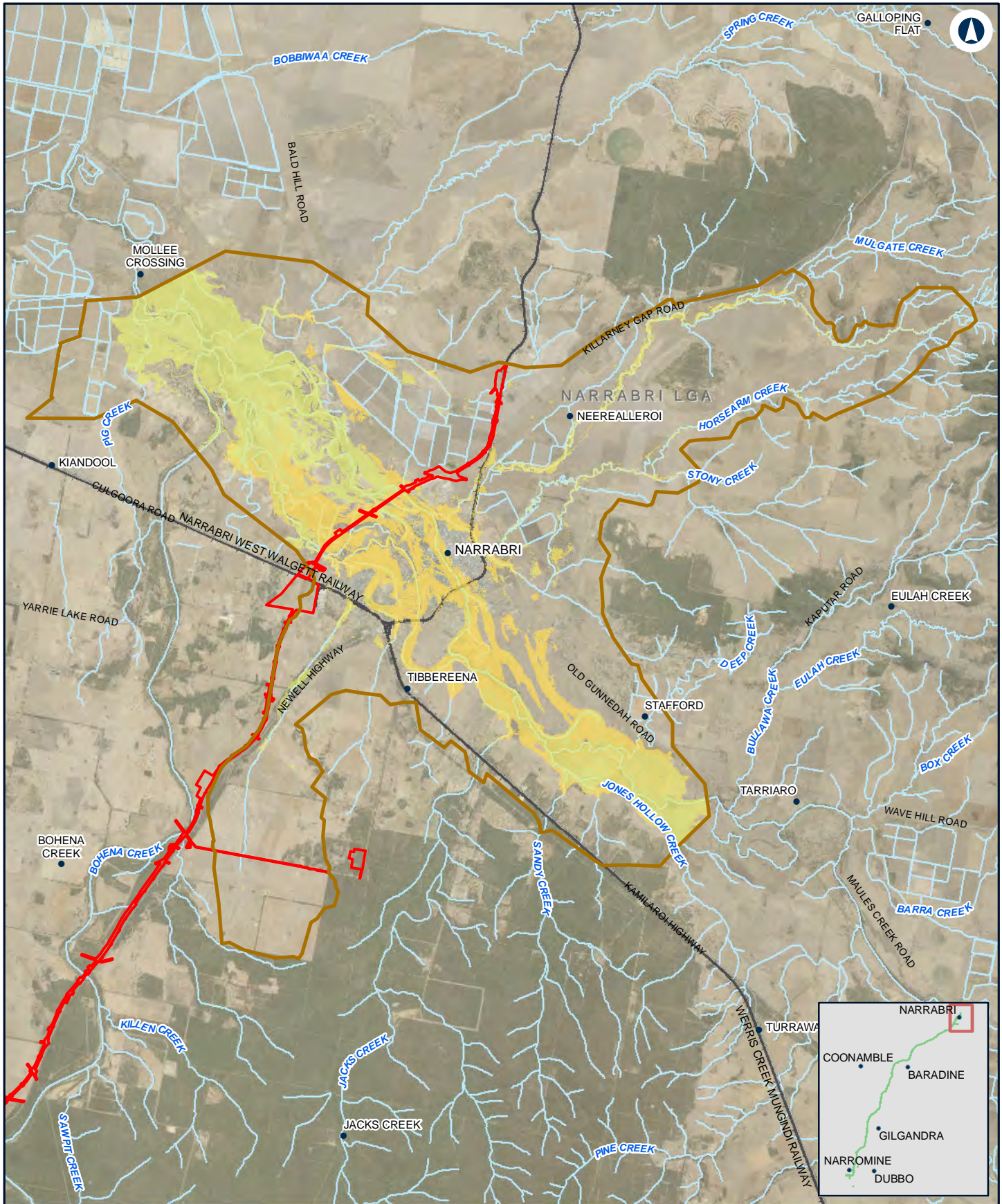
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



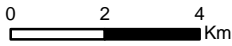
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 5% AEP - Narrabri

Appendix G - Figure 3.2n

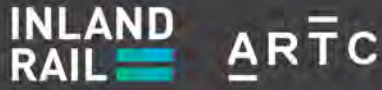


LEGEND

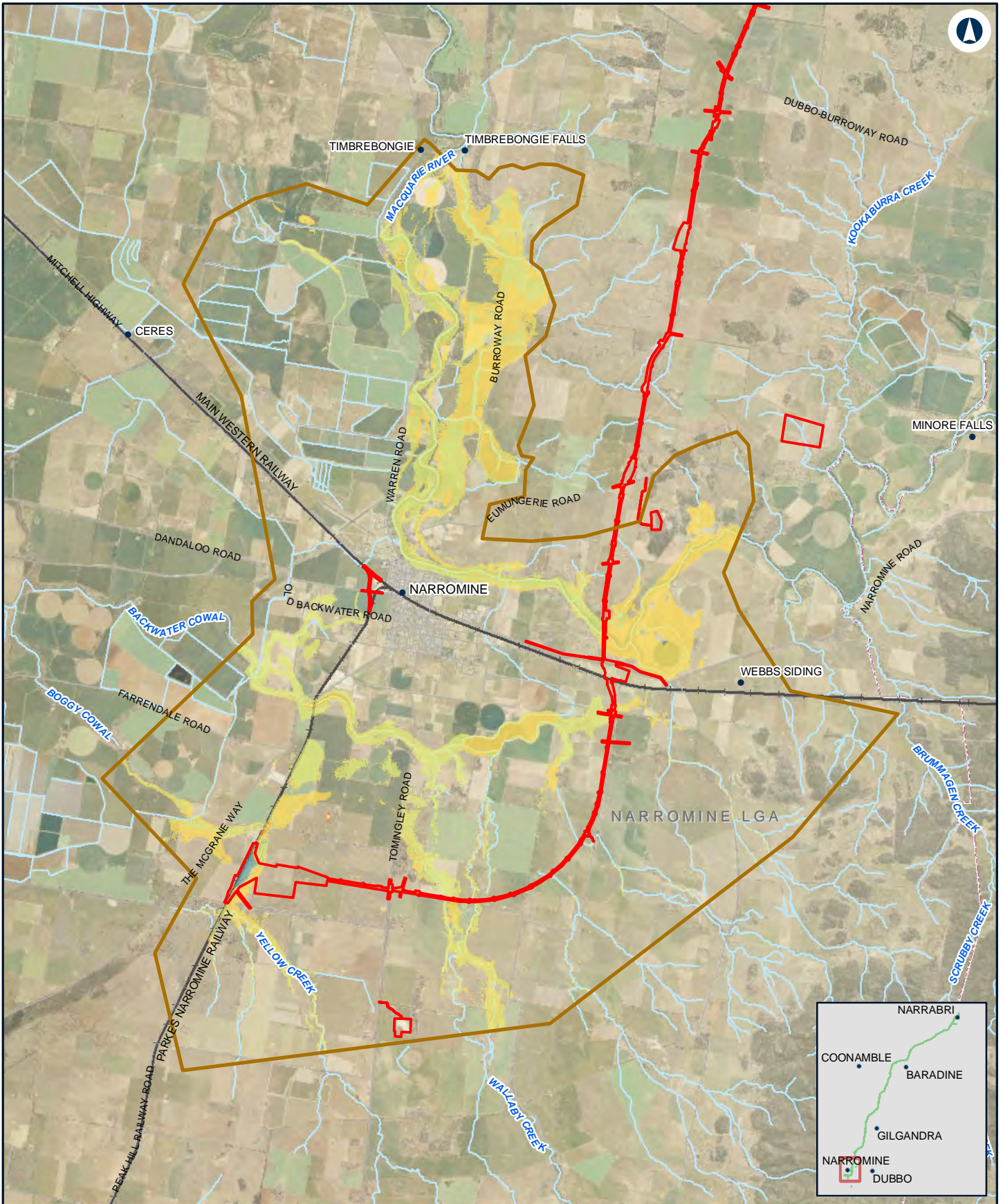
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



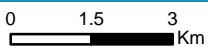
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - NFM

Appendix G - Figure 3.3a



Coordinate System: GDA 1994 MGA Zone 55

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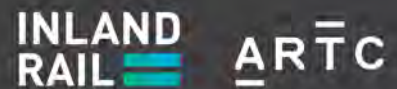
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000

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

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

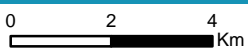


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NARROMINE TO NARRABRI Change in duration - 2% AEP - N2N14

Appendix G - Figure 3.3b



Coordinate System: GDA 1994 MGA Zone 55
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 ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

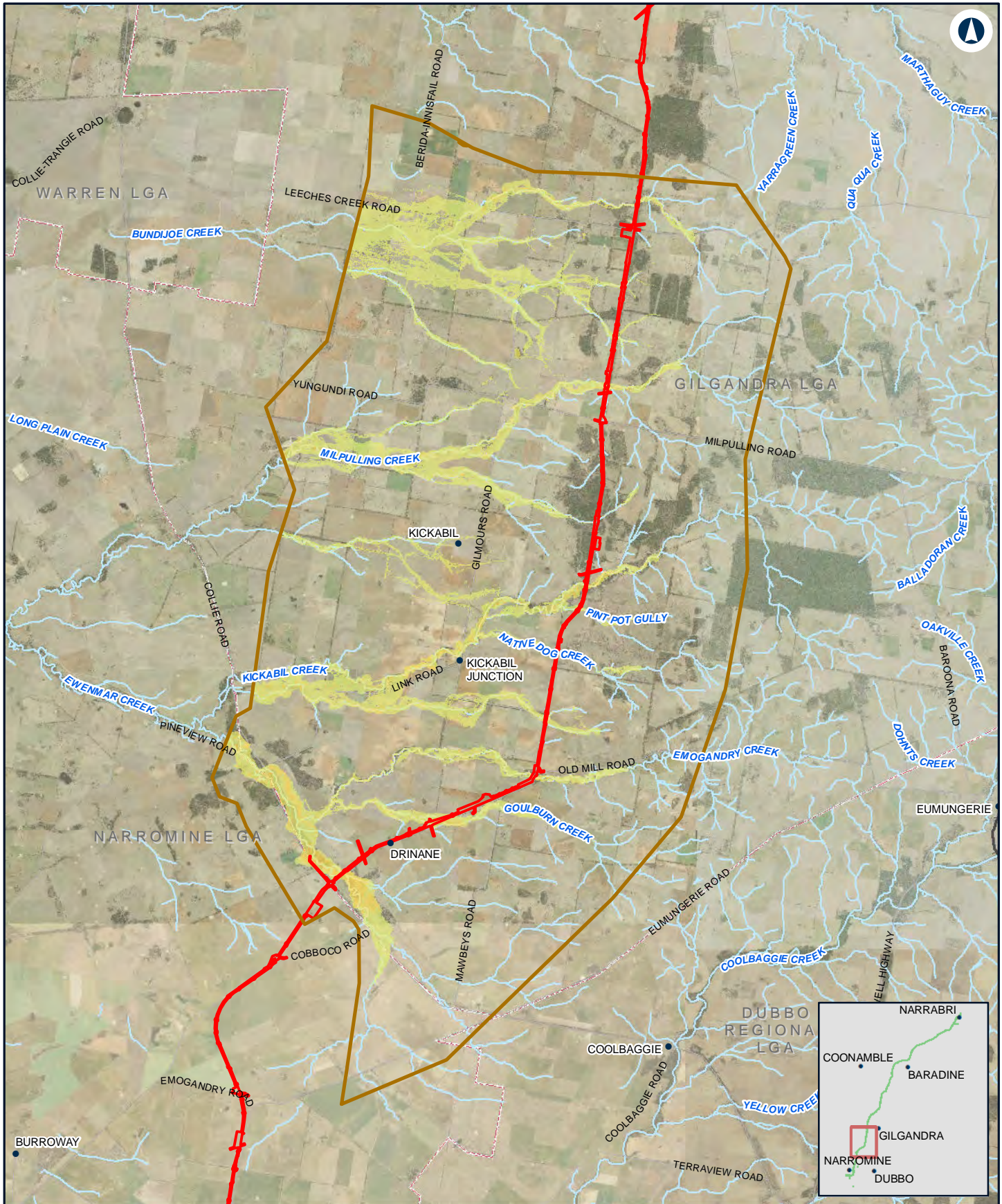
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



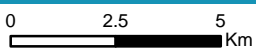
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N13

Appendix G - Figure 3.3c



LEGEND

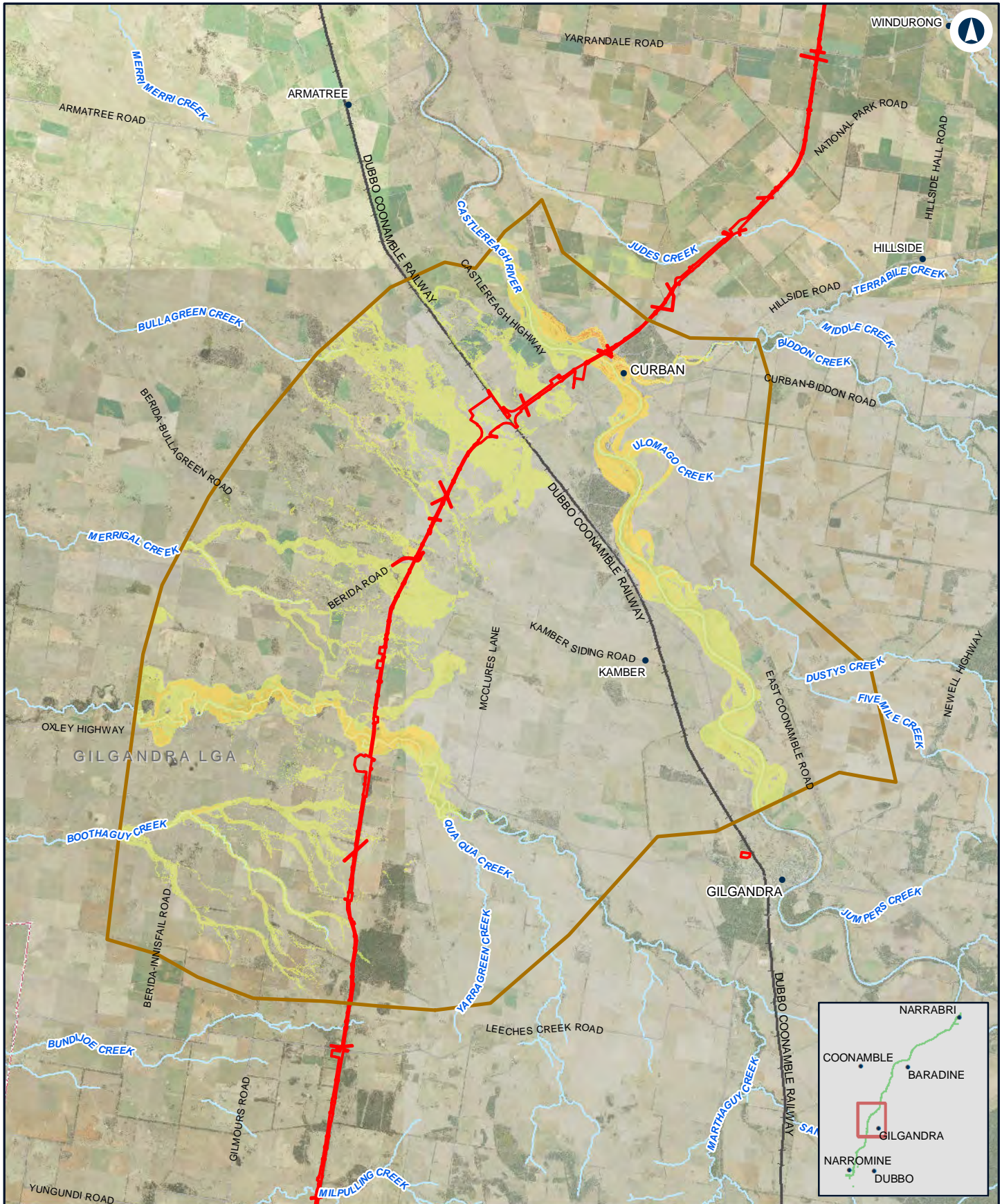
- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



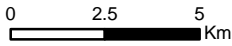
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N11N12

Appendix G - Figure 3.3d

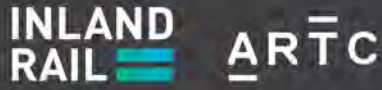


Coordinate System: GDA 1994 MGA Zone 55
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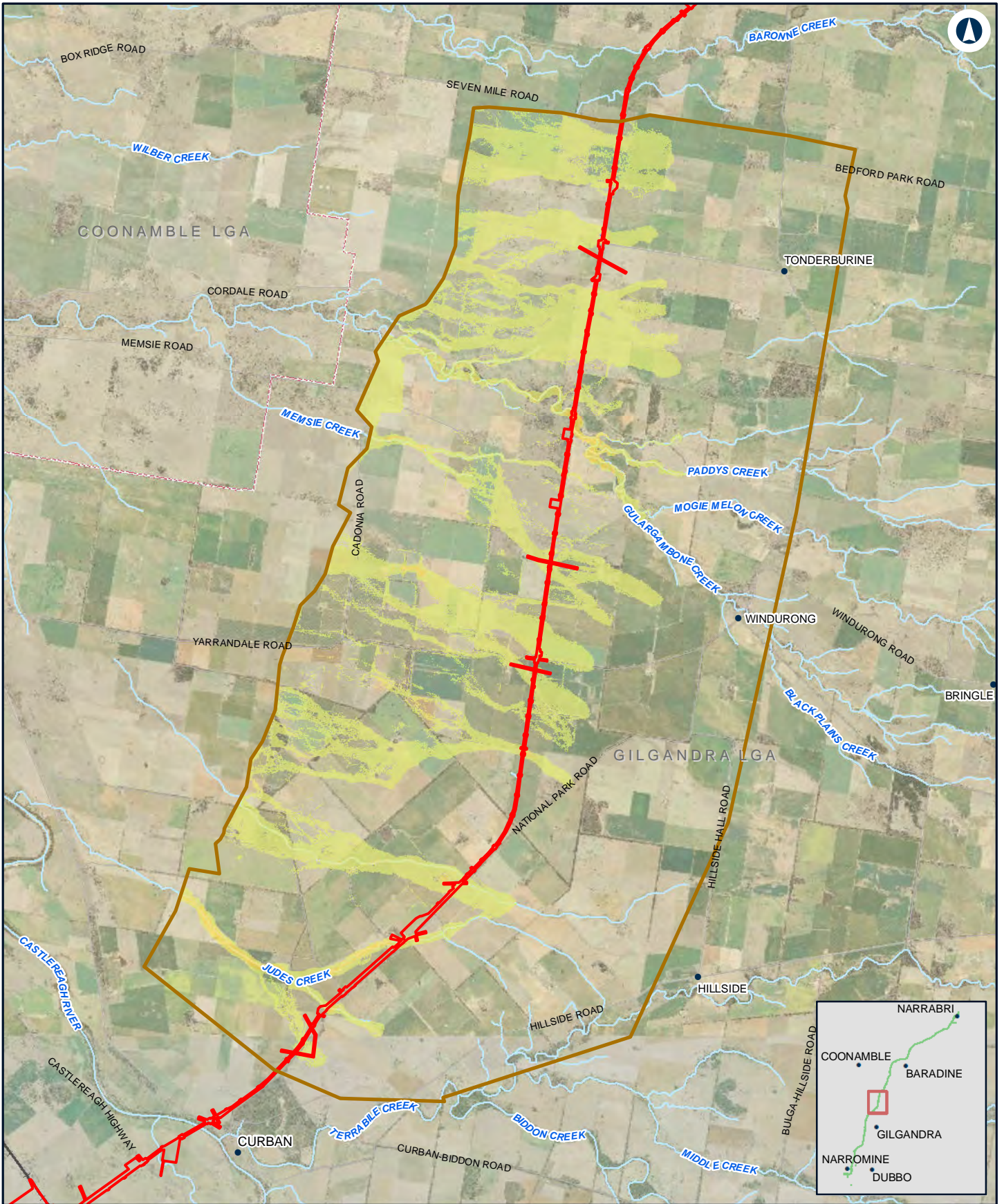
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



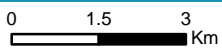
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N10

Appendix G - Figure 3.3e



Coordinate System: GDA 1994 MGA Zone 55

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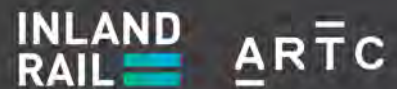
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

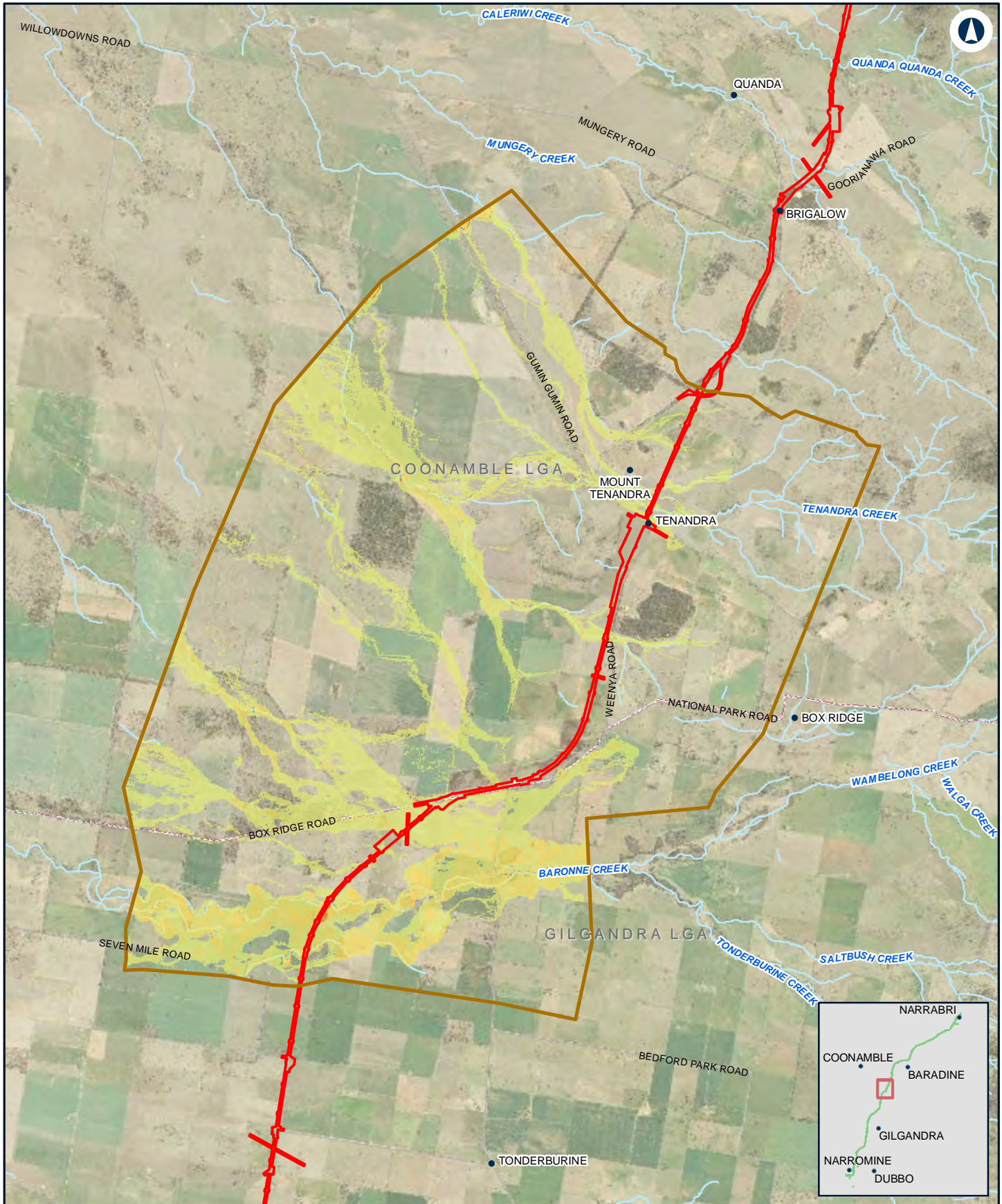
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 6 hr - 12 hr decrease
- > 24 hr increase
- 3 hr - 6 hr decrease



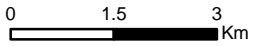
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N9

Appendix G - Figure 3.3f



Coordinate System: GDA 1994 MGA Zone 55
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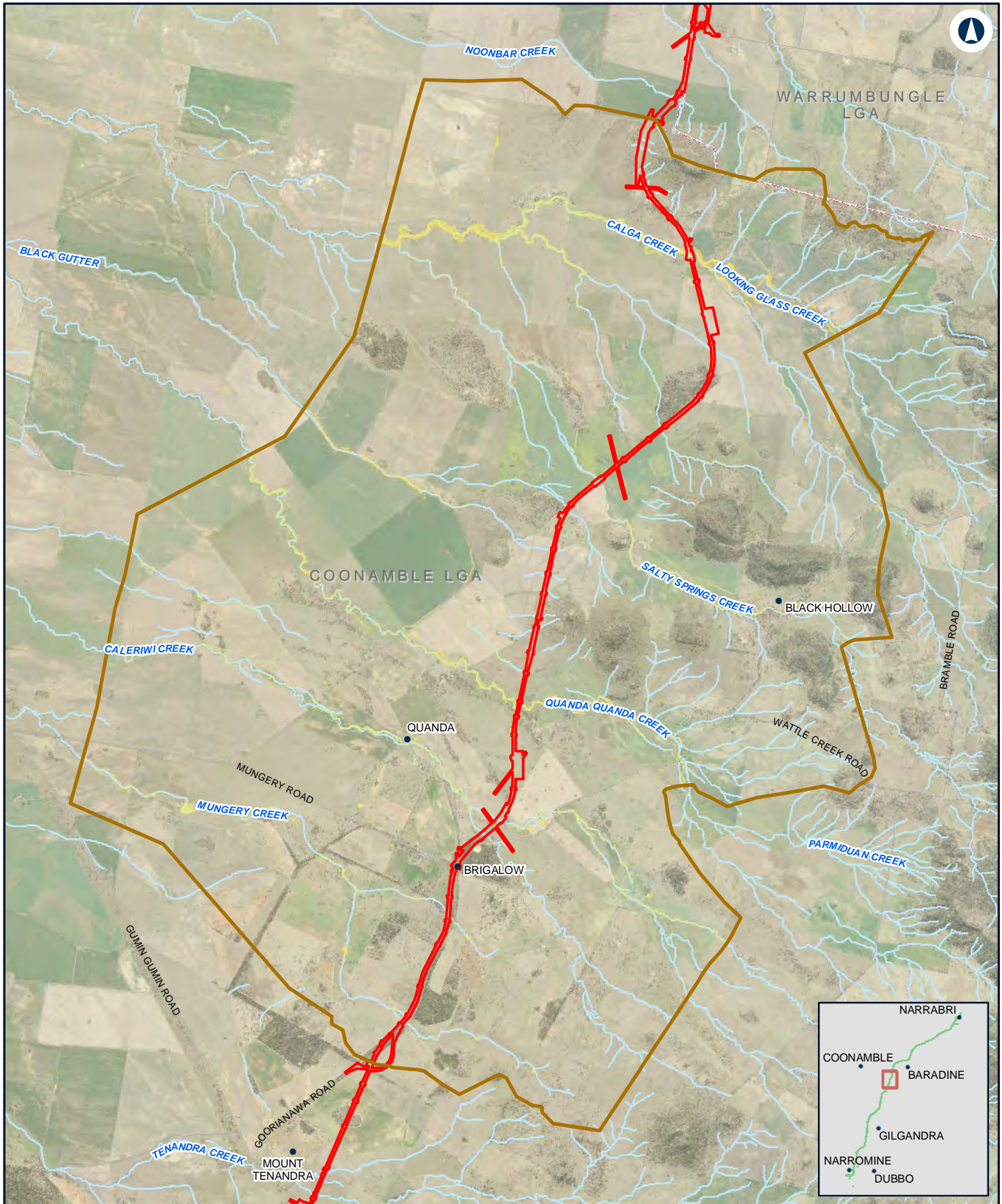
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

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- Model boundary
- Duration Change**
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- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- > 24 hr increase



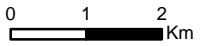
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N8

Appendix G - Figure 3.3g



Coordinate System: GDA 1994 MGA Zone 55
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 ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

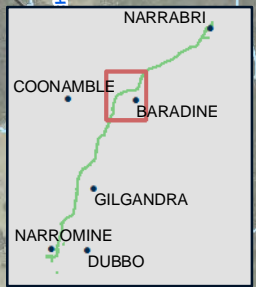
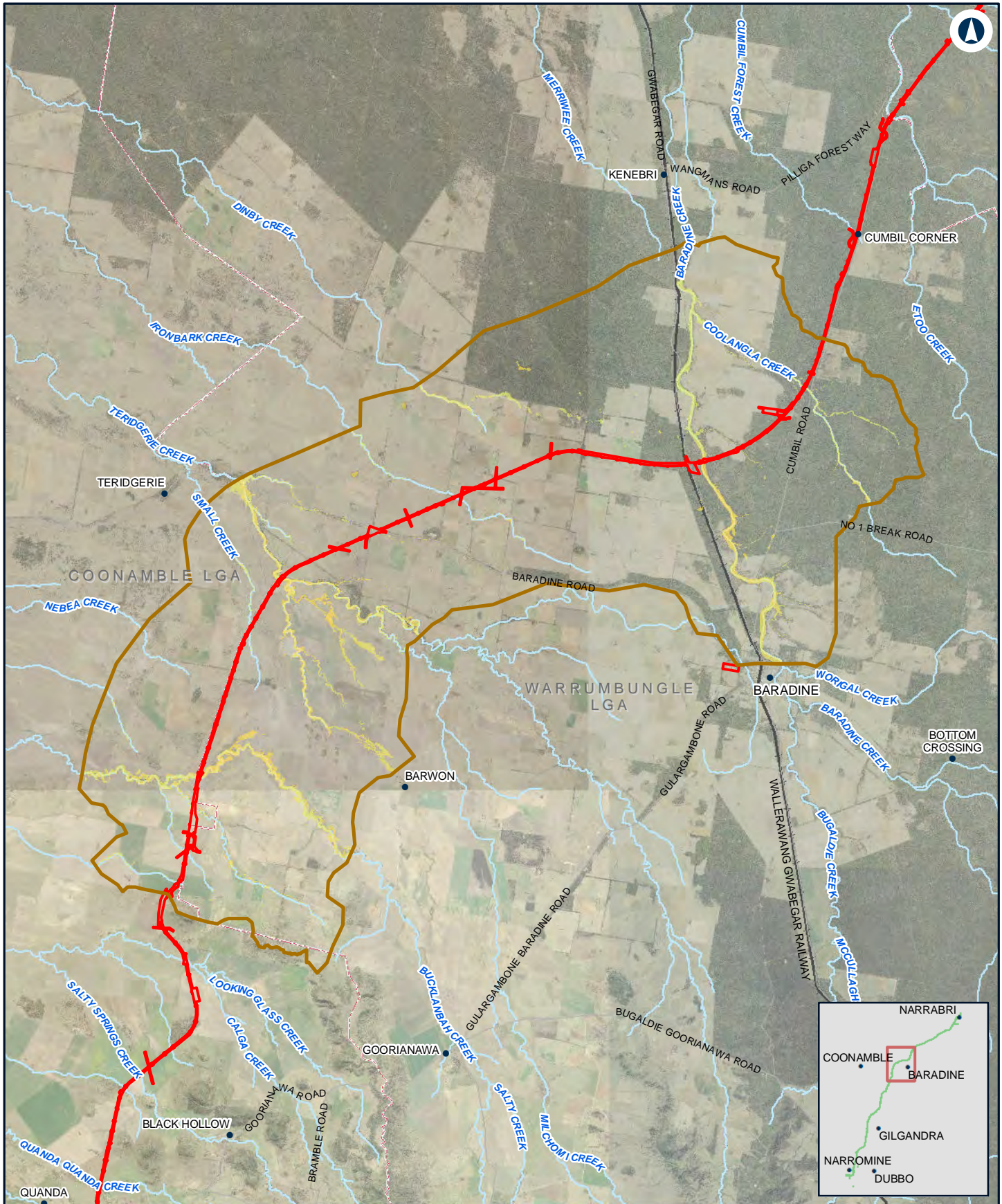
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



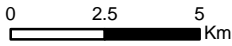
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N7

Appendix G - Figure 3.3h



Coordinate System: GDA 1994 MGA Zone 55
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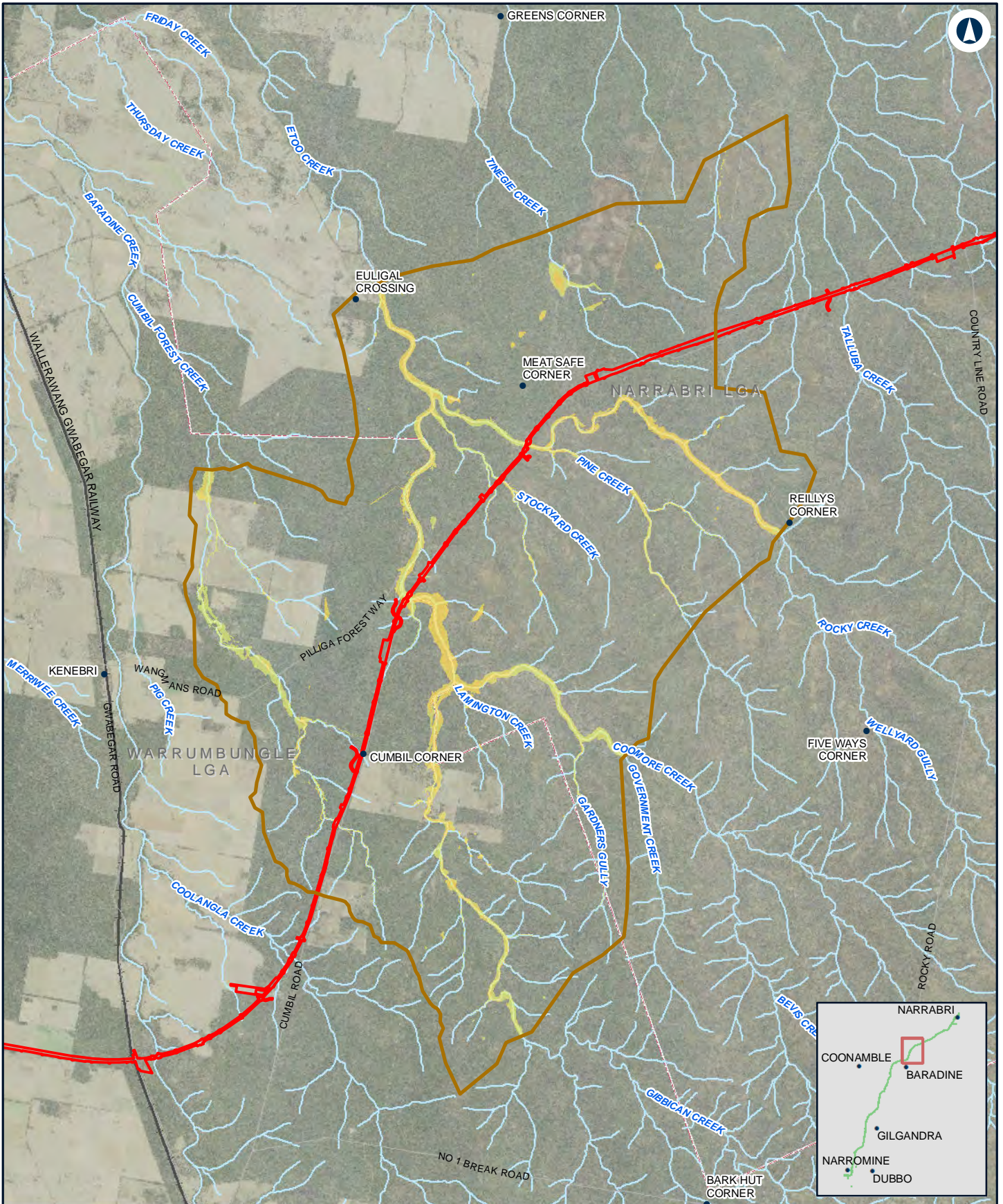
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 6 hr - 12 hr increase
- > 24 hr increase



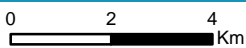
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N6

Appendix G - Figure 3.3i



Coordinate System: GDA 1994 MGA Zone 55

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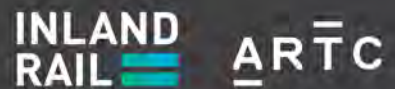
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

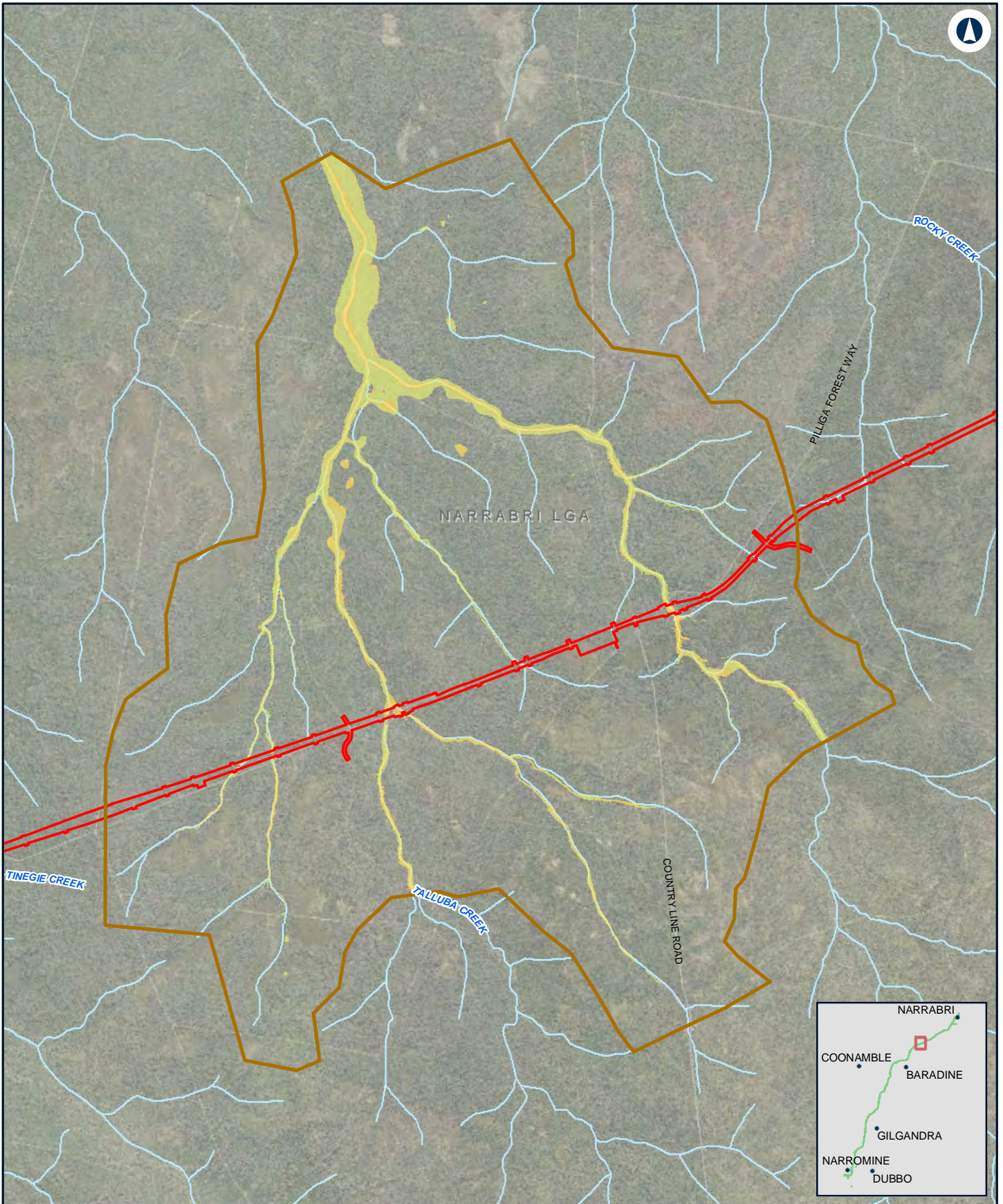
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



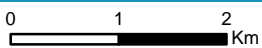
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N5

Appendix G - Figure 3.3j



Coordinate System: GDA 1994 MGA Zone 55

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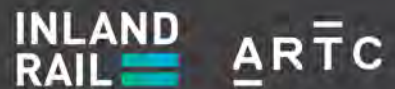
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

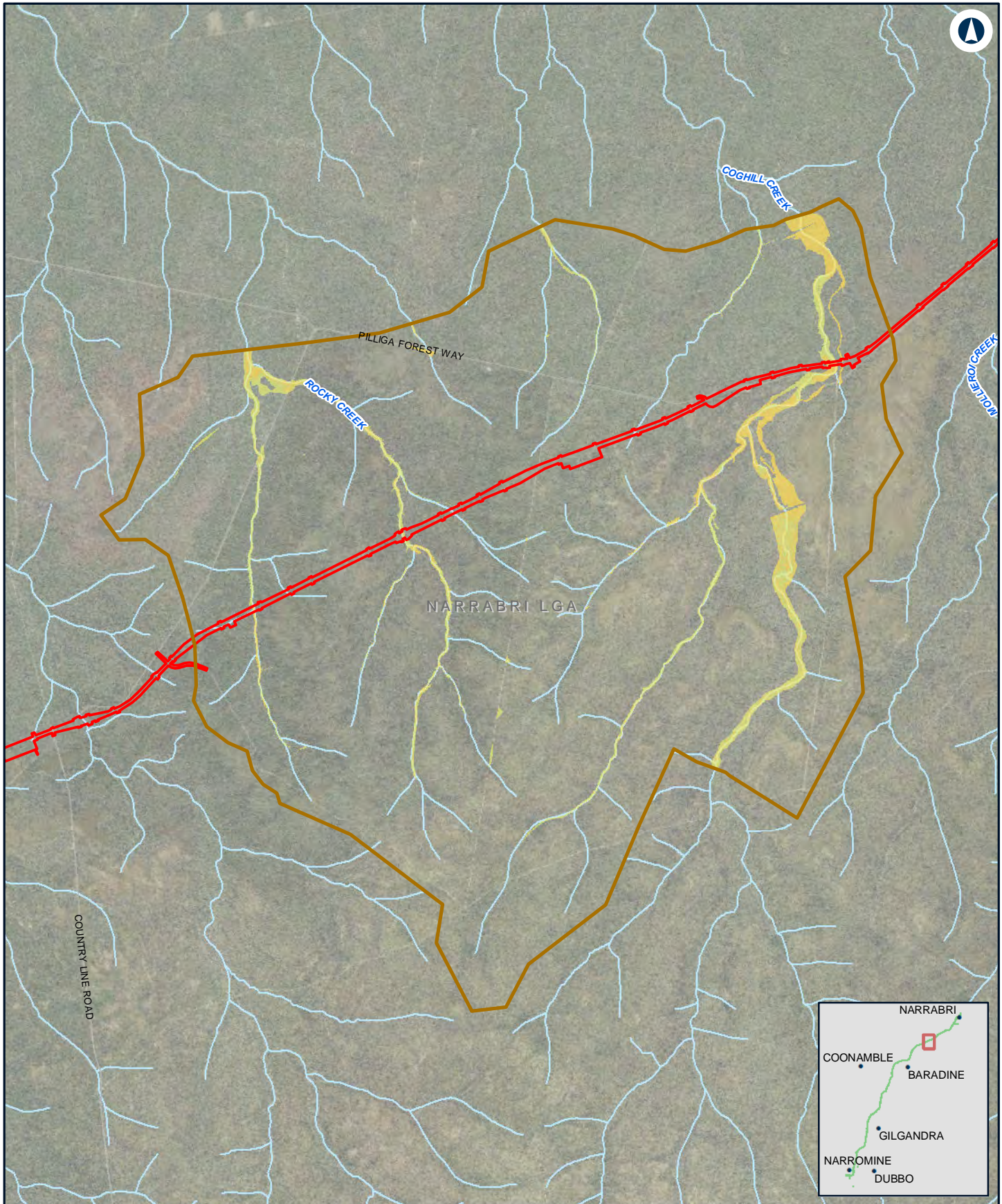
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
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- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



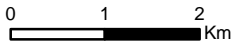
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N4

Appendix G - Figure 3.3k



Coordinate System: GDA 1994 MGA Zone 55
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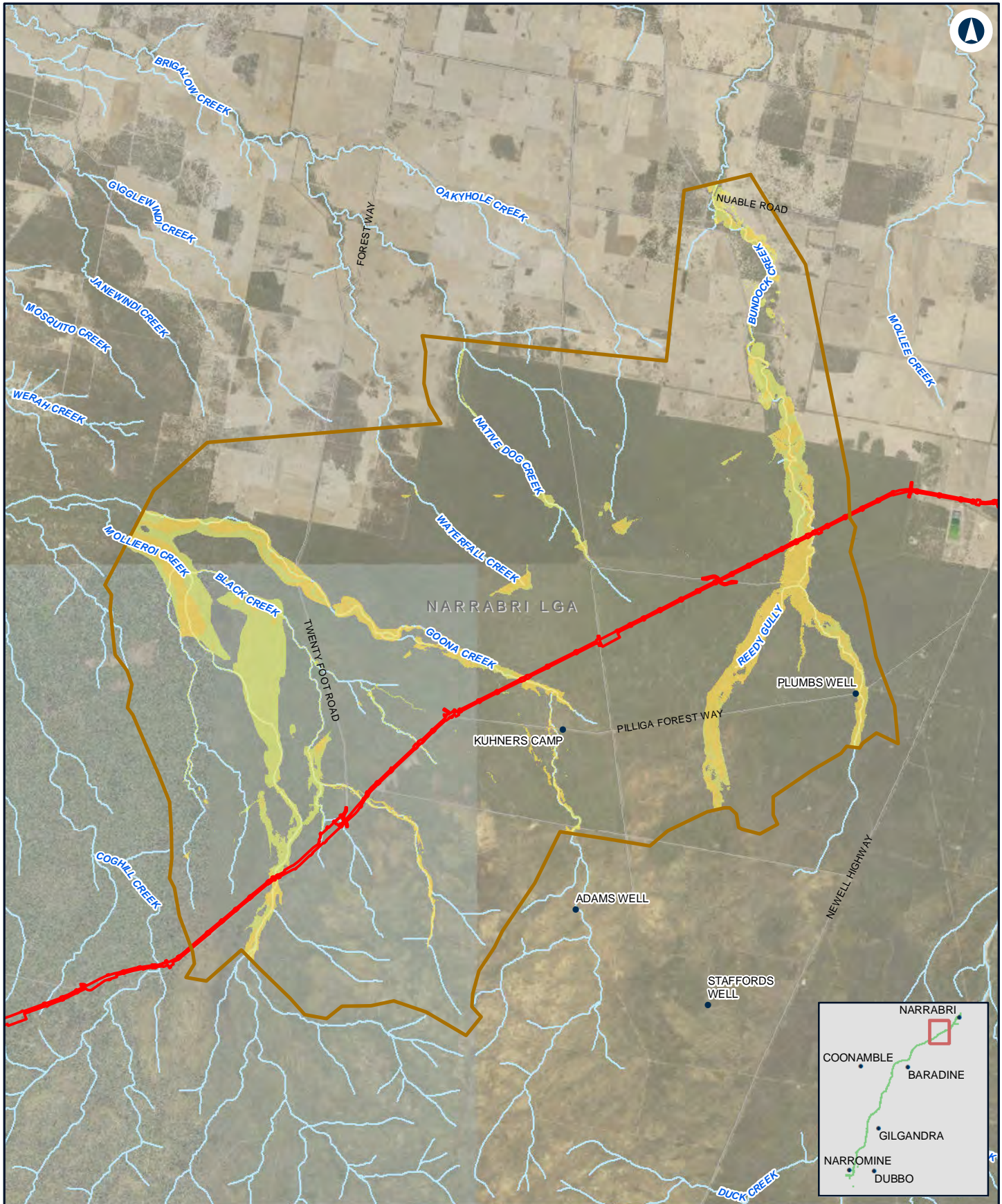
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



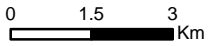
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N23

Appendix G - Figure 3.31

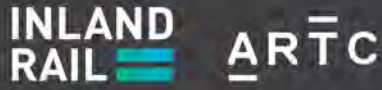


Coordinate System: GDA 1994 MGA Zone 55
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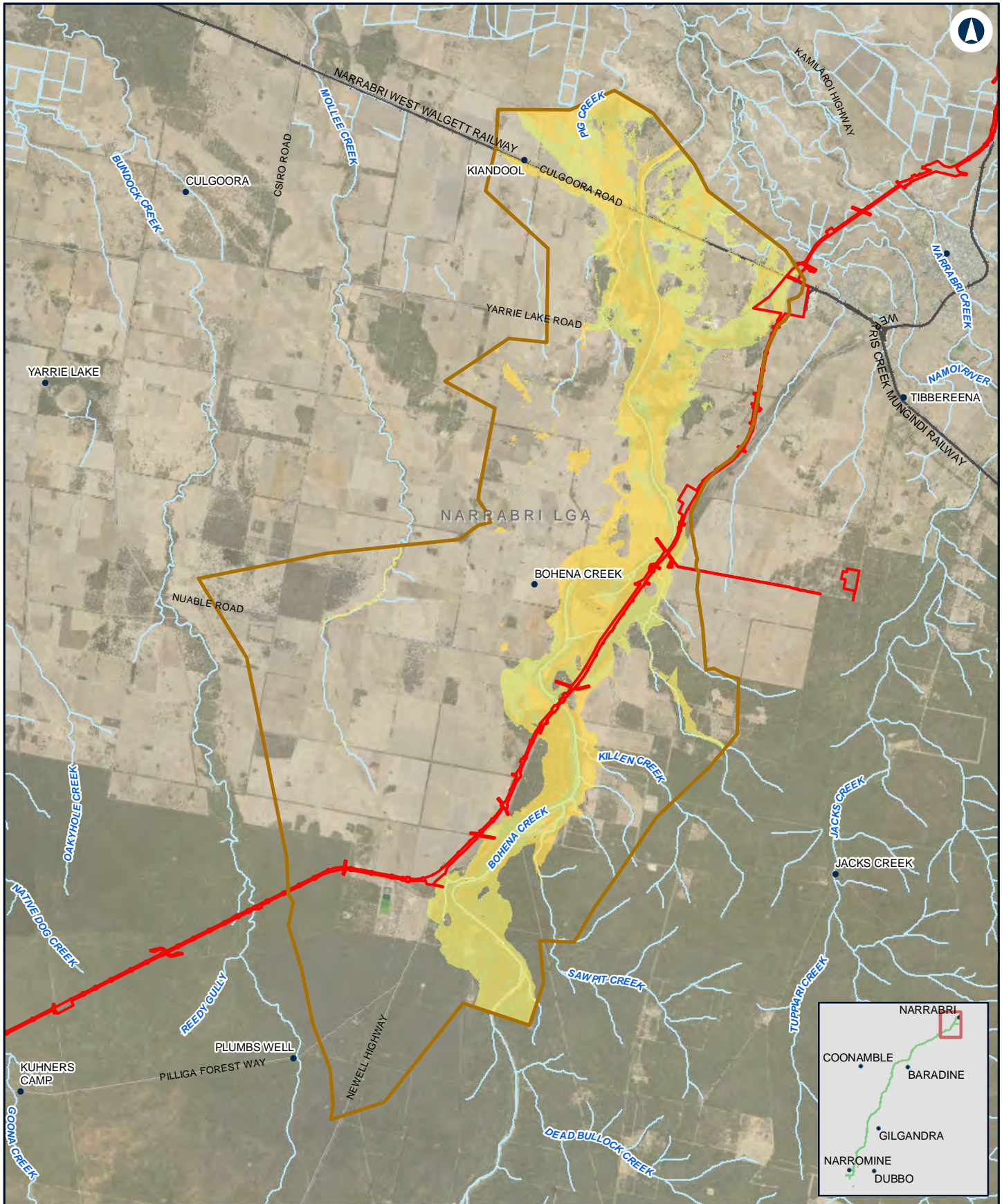
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



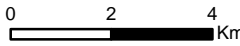
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - N2N1

Appendix G - Figure 3.3m

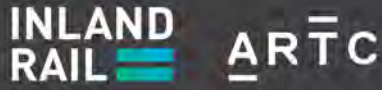


LEGEND

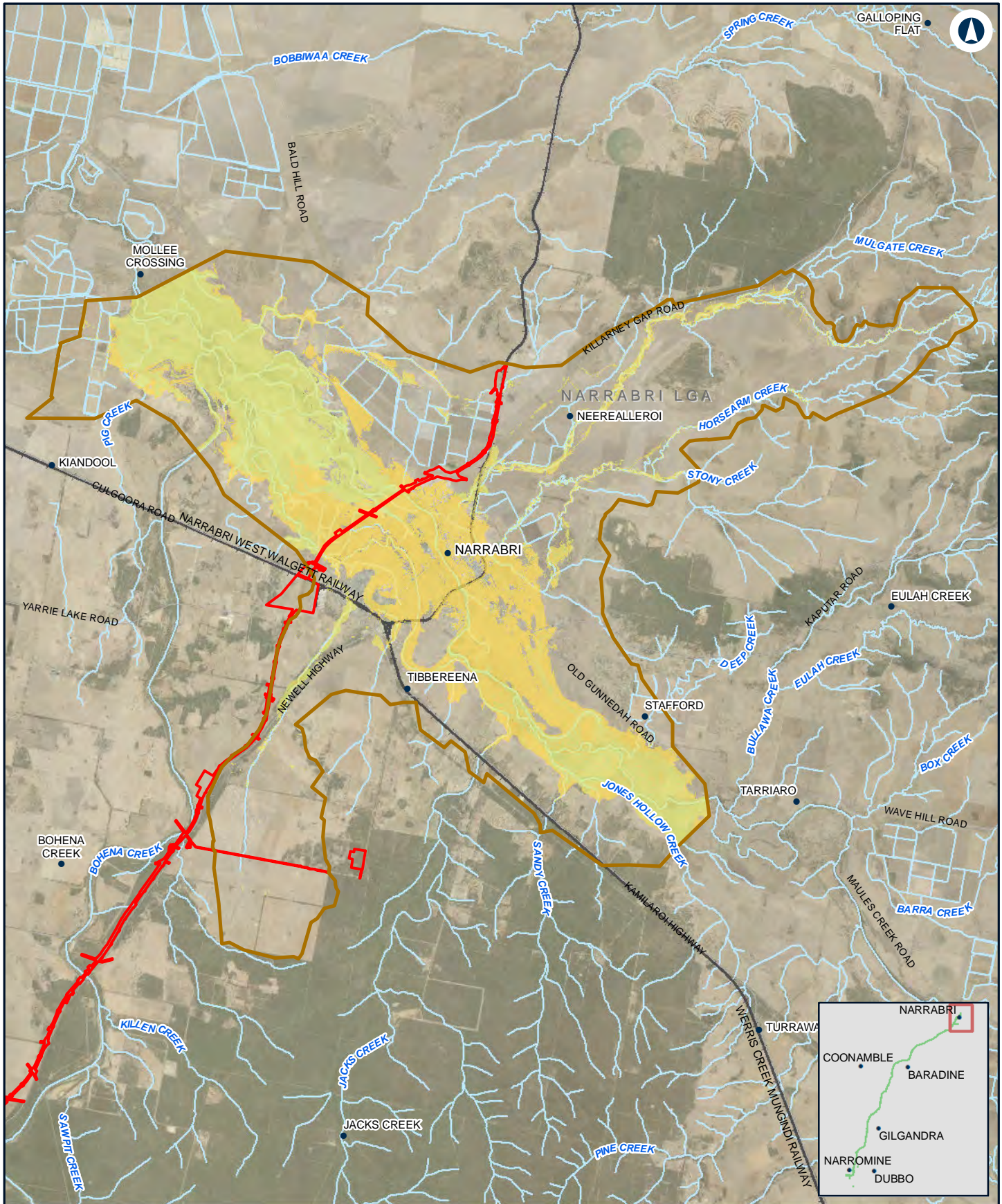
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



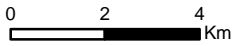
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 2% AEP - Narrabri

Appendix G - Figure 3.3n



Coordinate System: GDA 1994 MGA Zone 55
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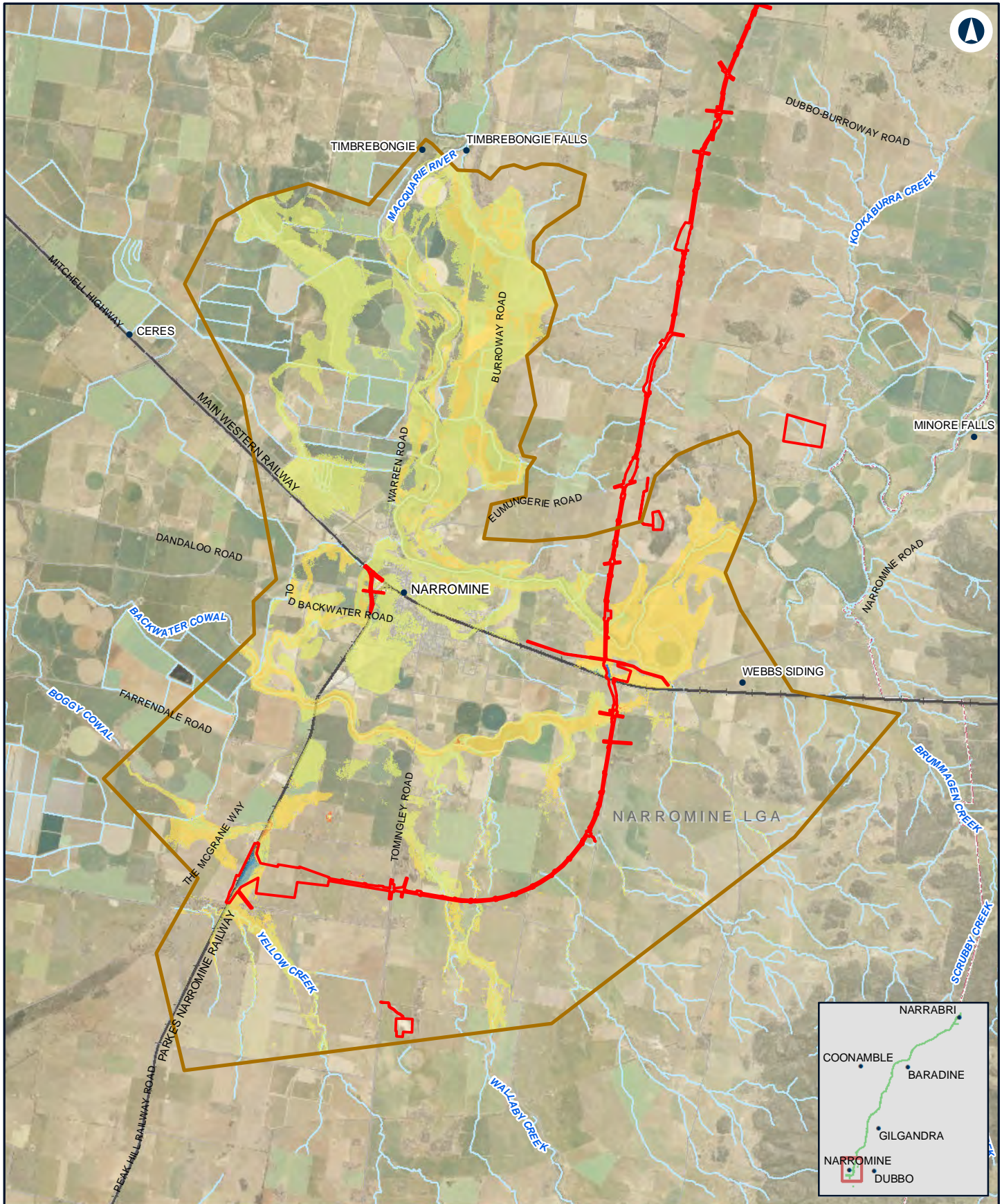
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- > 24 hr increase
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease



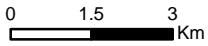
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - NFM

Appendix G - Figure 3.4a

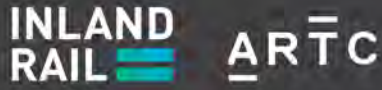


Coordinate System: GDA 1994 MGA Zone 55
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 ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

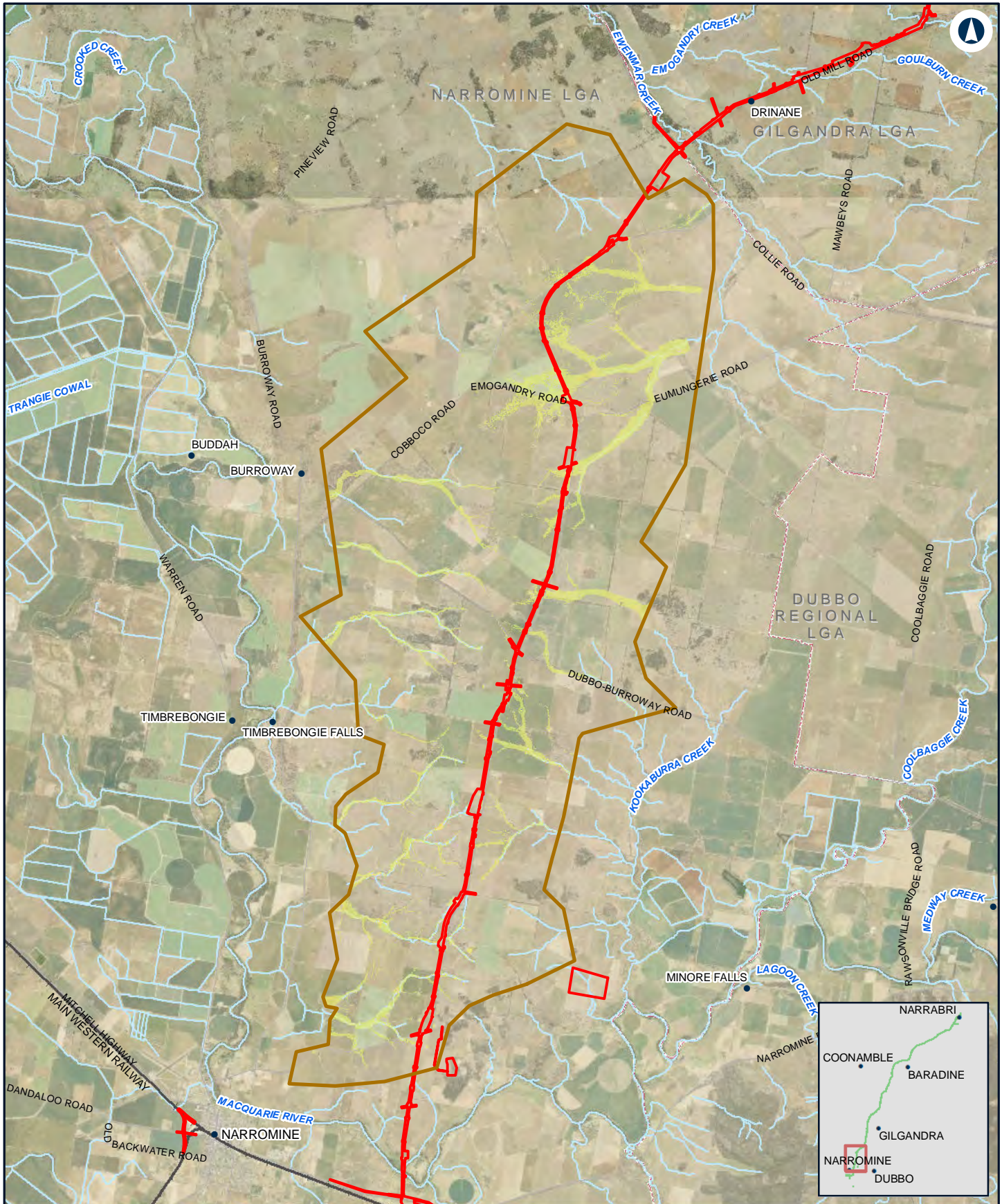
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



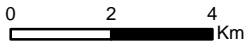
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N14

Appendix G - Figure 3.4b

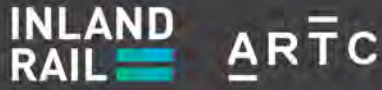


LEGEND

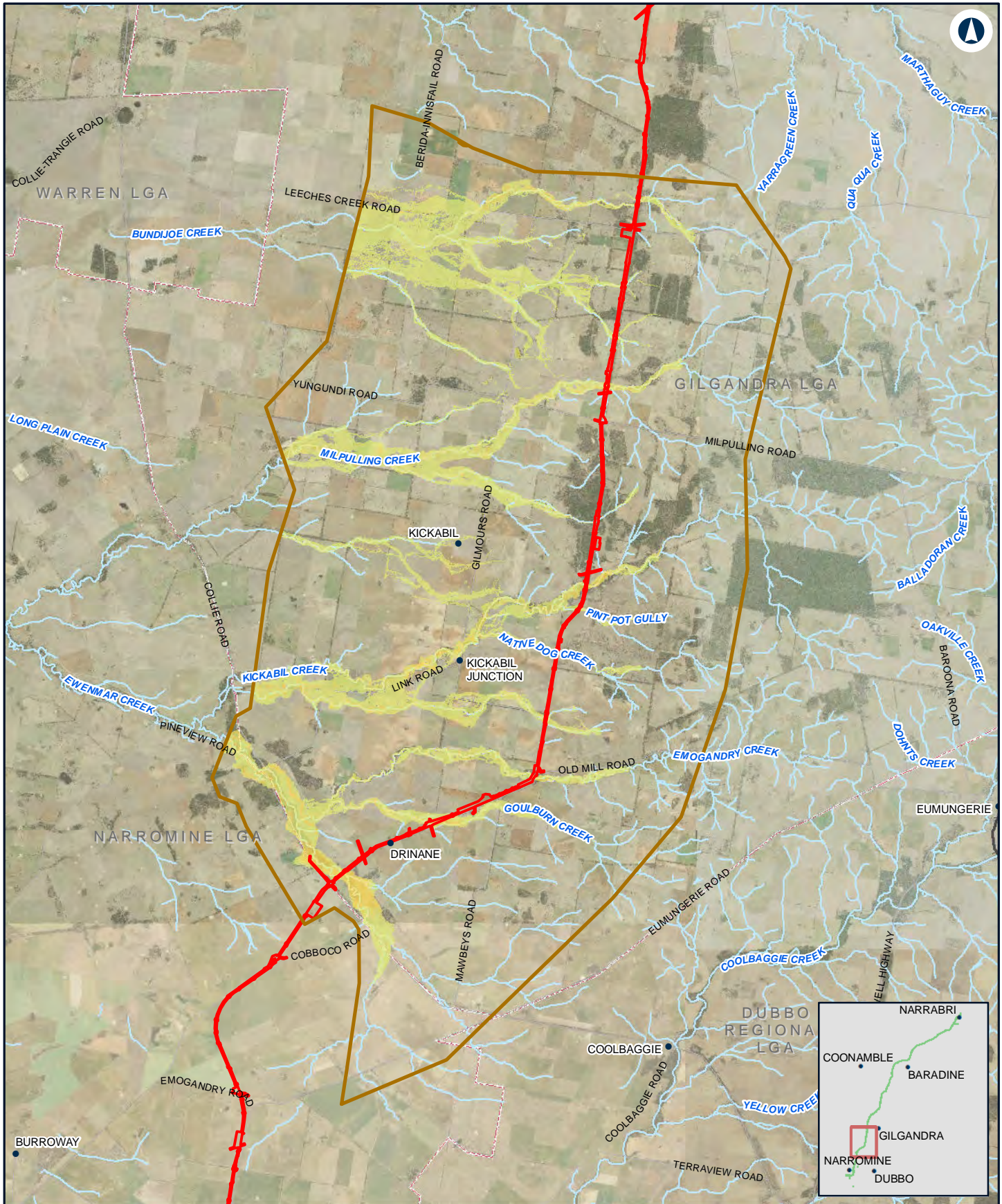
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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 ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



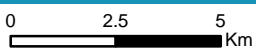
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N13

Appendix G - Figure 3.4c



LEGEND

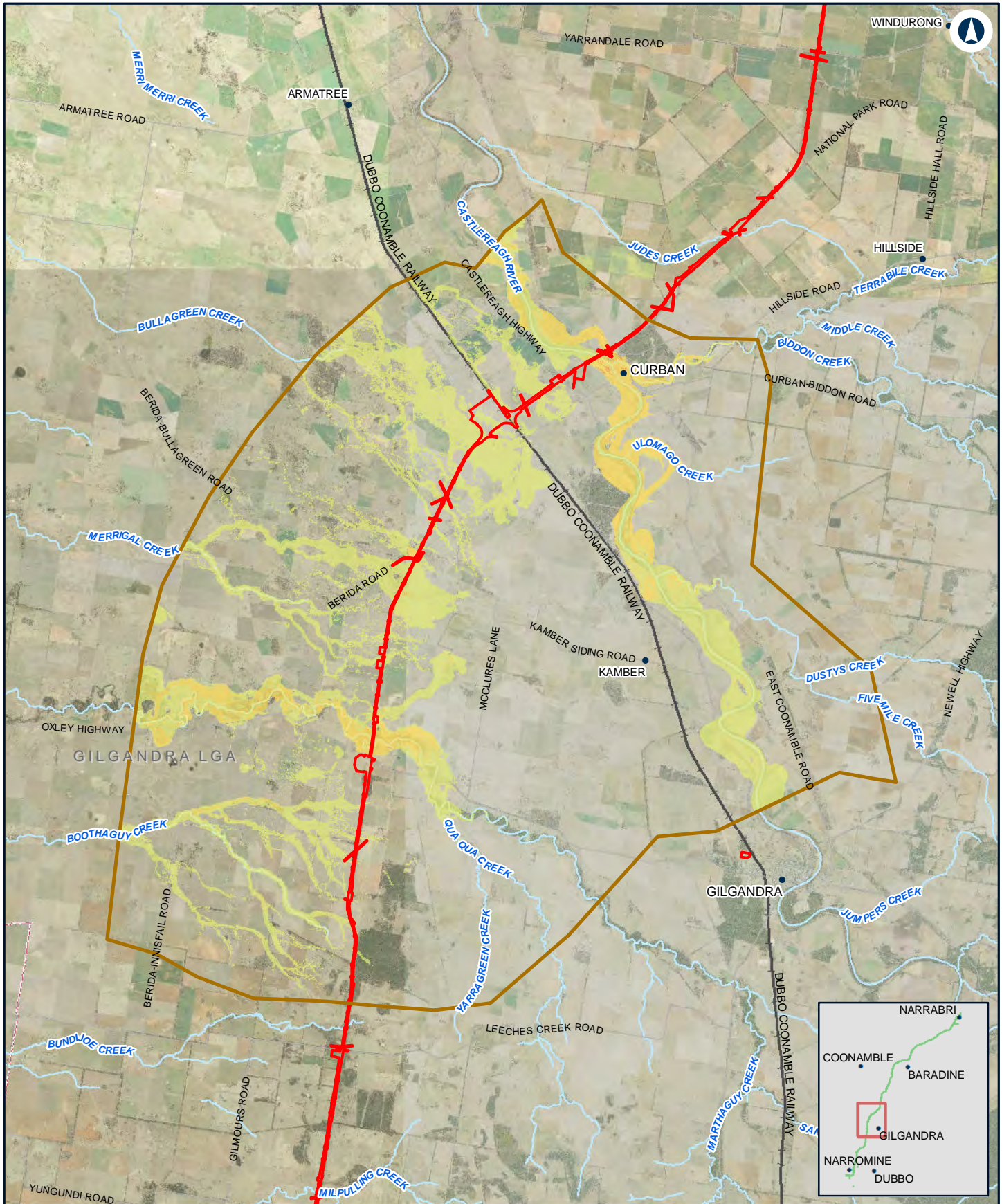
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



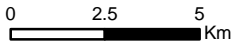
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N11N12

Appendix G - Figure 3.4d



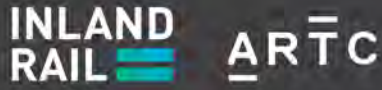
Coordinate System: GDA 1994 MGA Zone 55
 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC 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: 28/10/2020
 Author: JacobsGHD
 Paper: A4
 Scale: 1:200,000

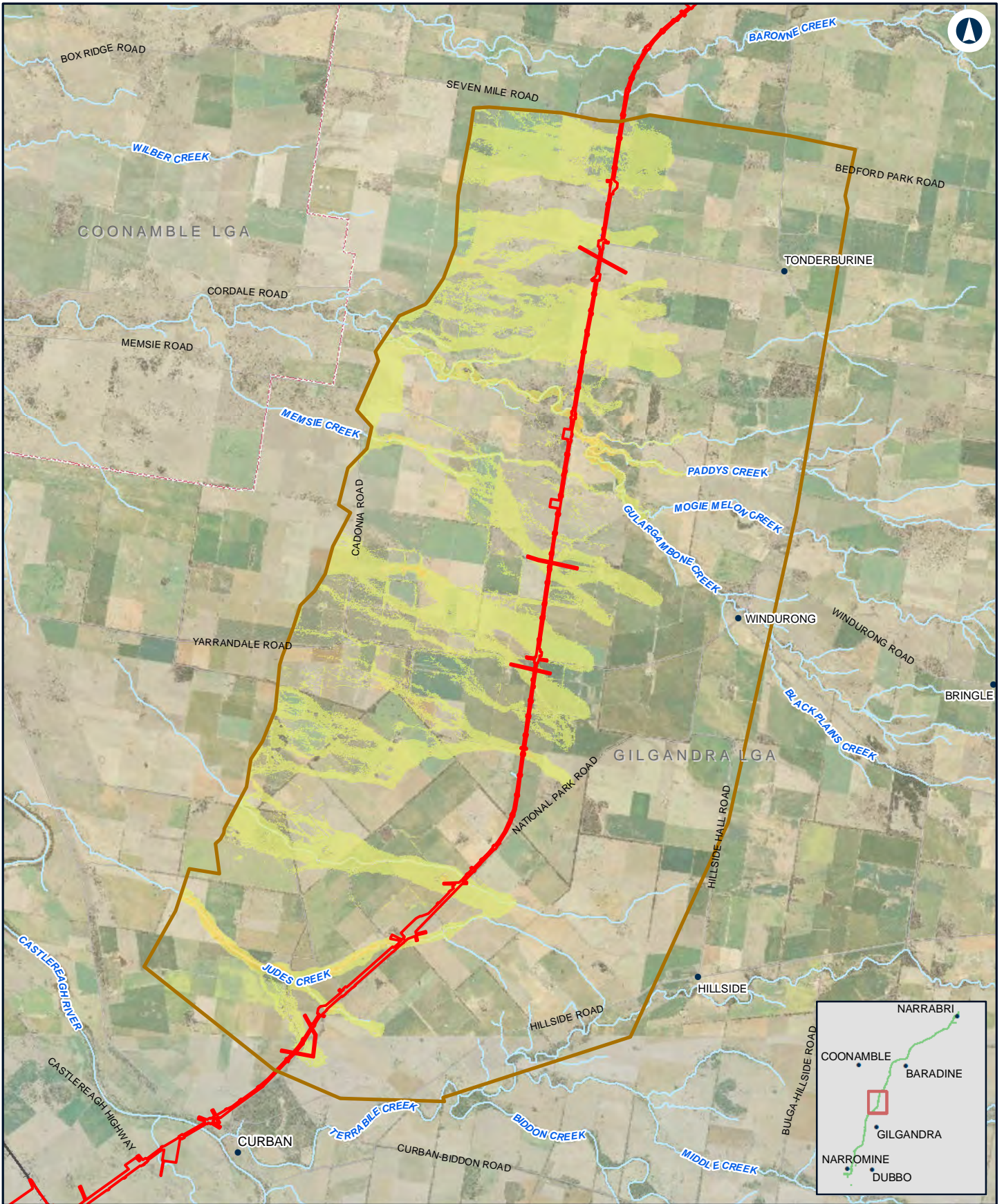
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



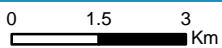
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N10

Appendix G - Figure 3.4e



Coordinate System: GDA 1994 MGA Zone 55

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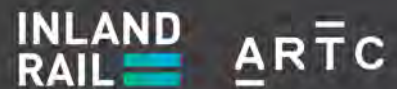
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

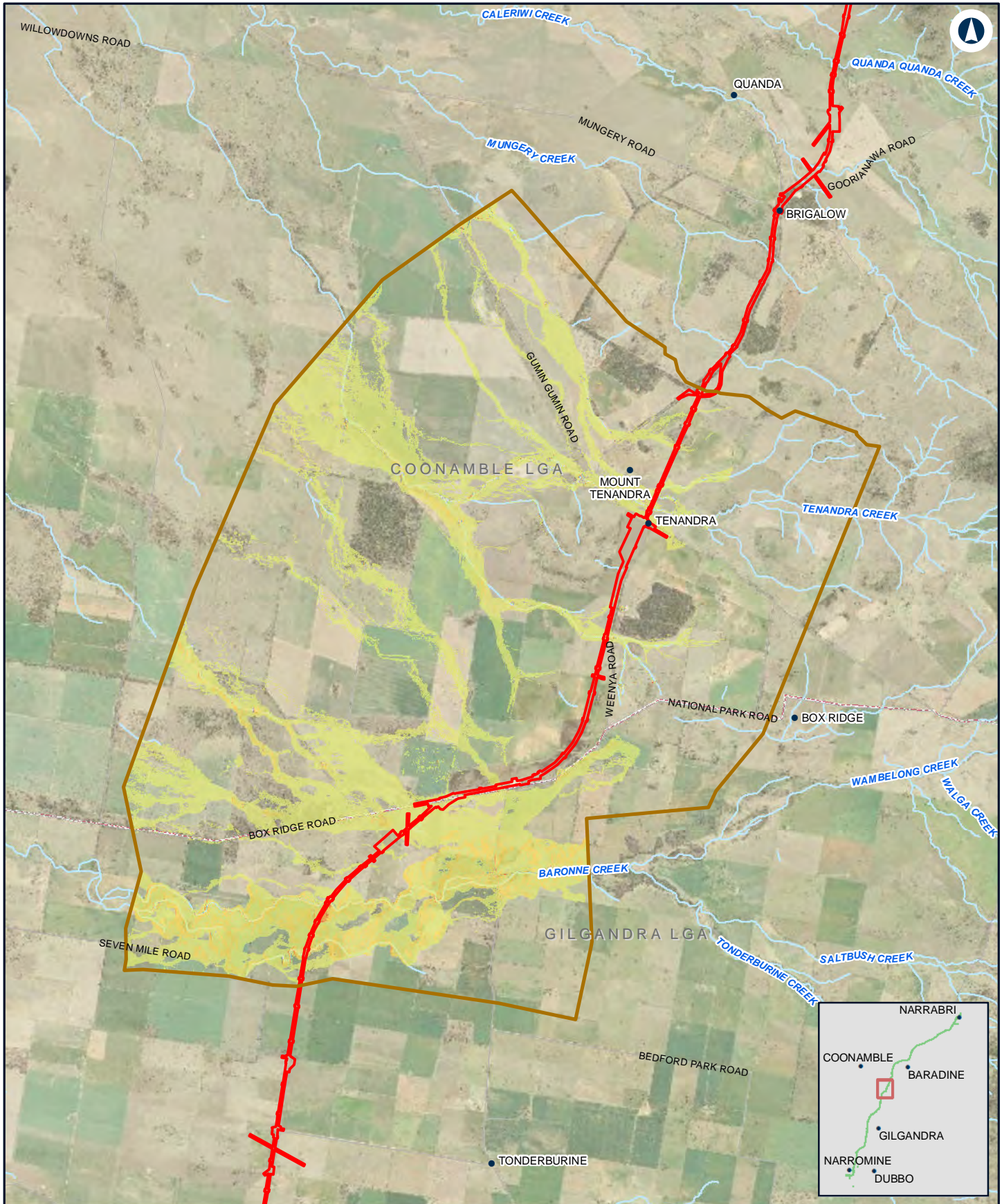
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



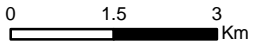
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N9

Appendix G - Figure 3.4f



Coordinate System: GDA 1994 MGA Zone 55
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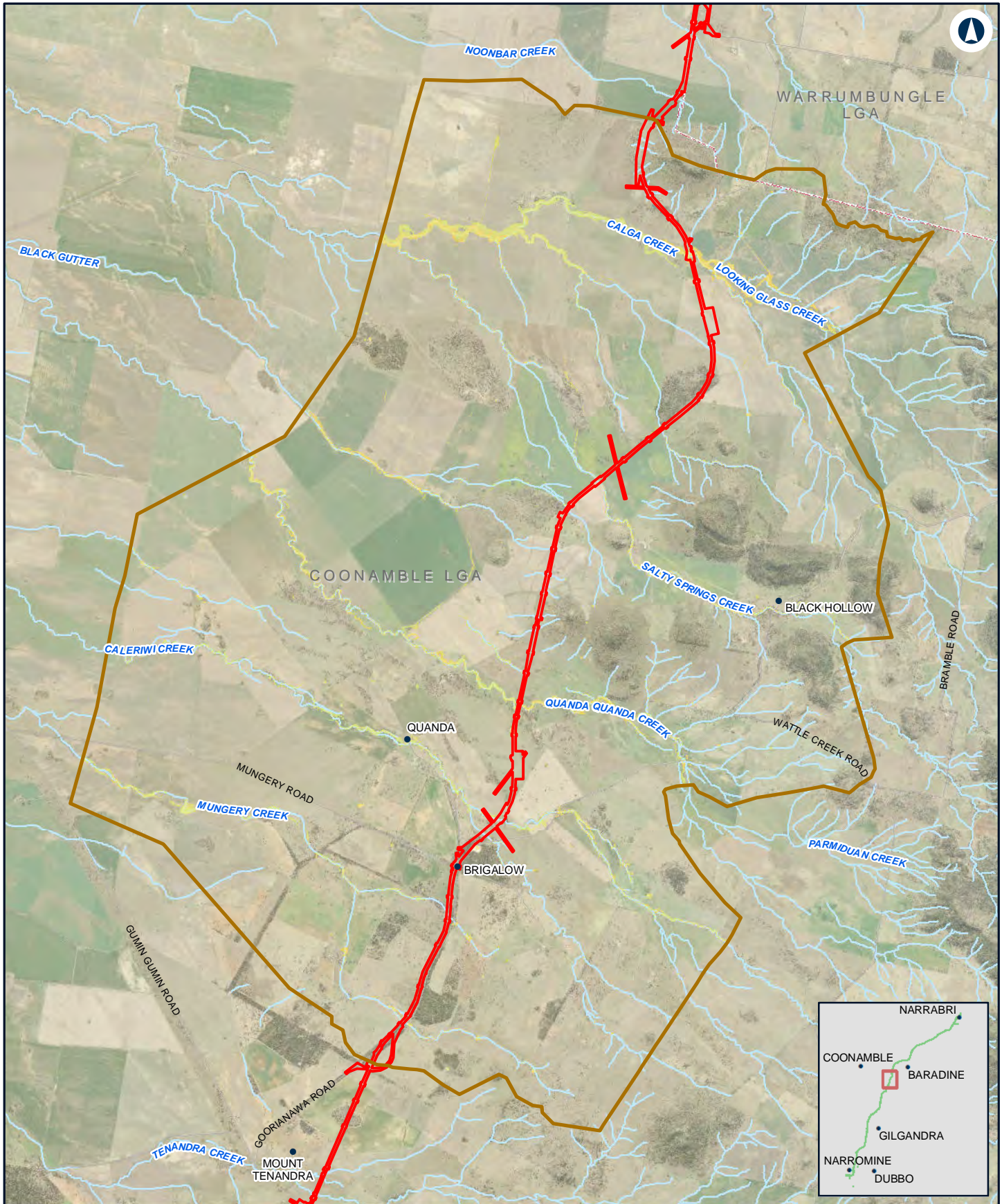
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



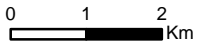
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N8

Appendix G - Figure 3.4g



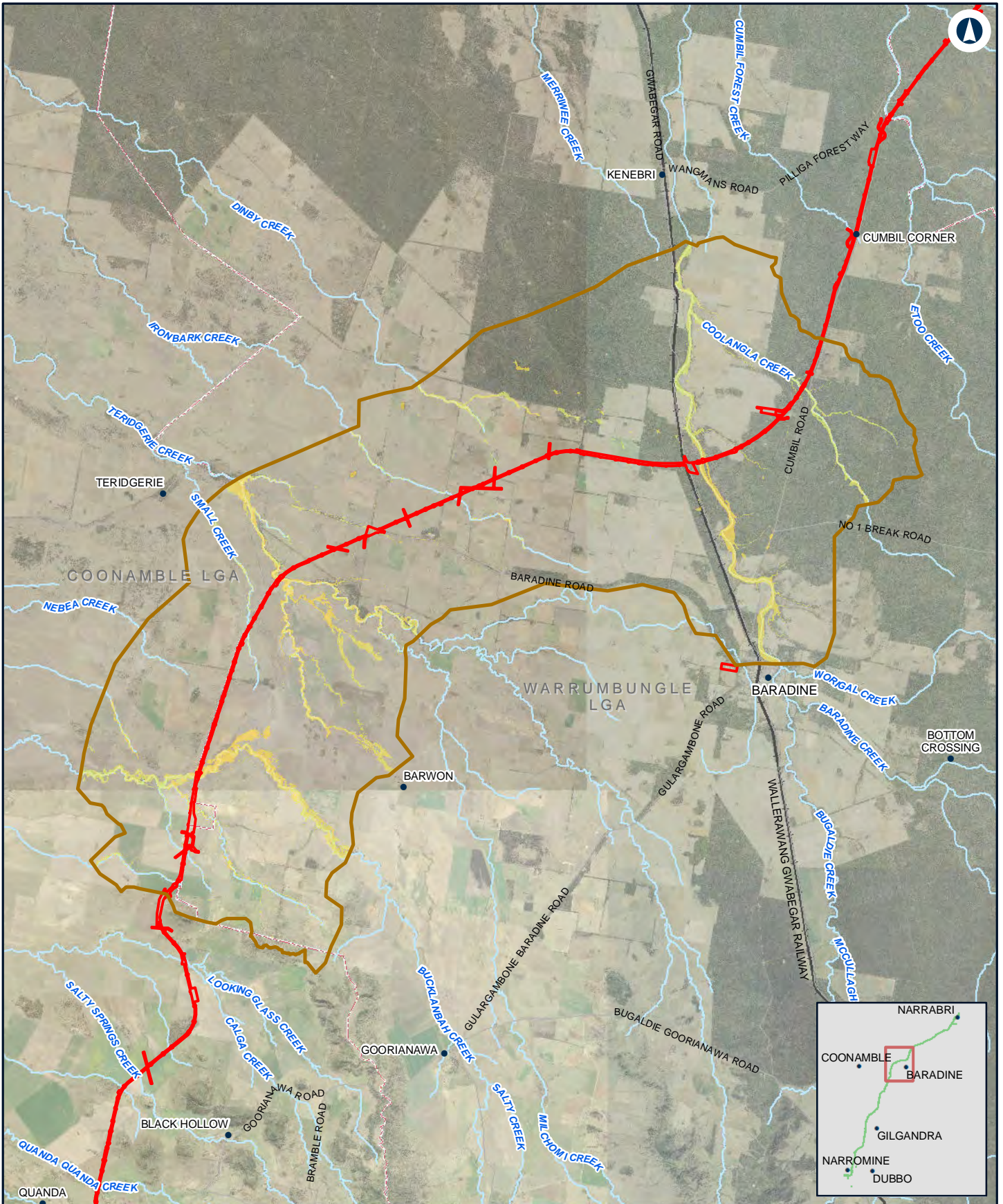
Coordinate System: GDA 1994 MGA Zone 55
 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC 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: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



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 - N2N7

Appendix G - Figure 3.4h



Coordinate System: GDA 1994 MGA Zone 55

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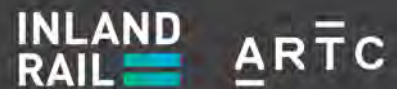
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

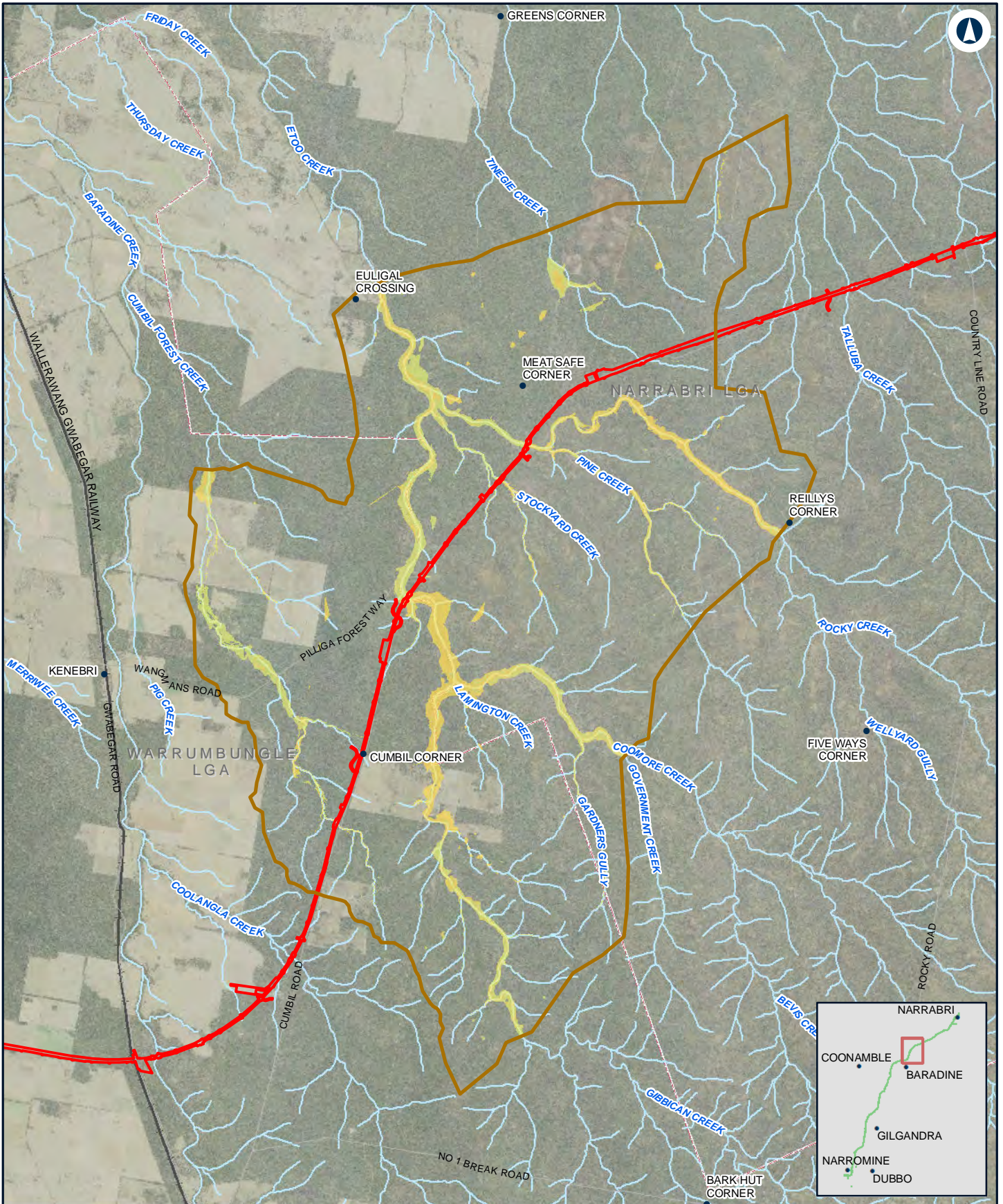
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



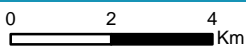
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N6

Appendix G - Figure 3.4i



Coordinate System: GDA 1994 MGA Zone 55

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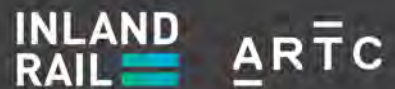
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

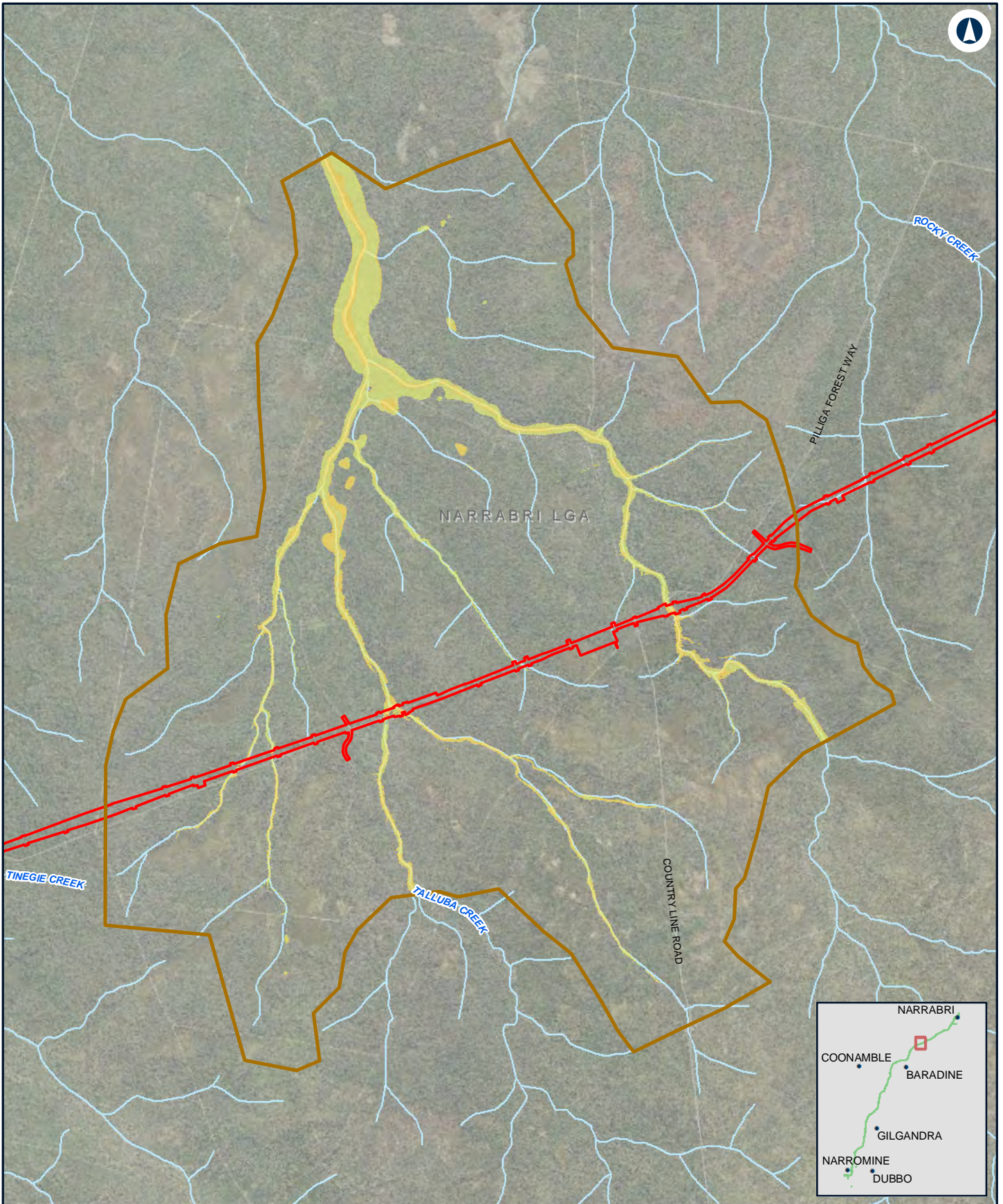
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



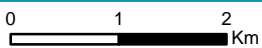
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N5

Appendix G - Figure 3.4j



Coordinate System: GDA 1994 MGA Zone 55

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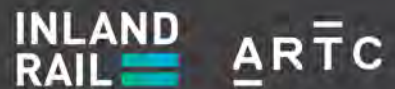
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

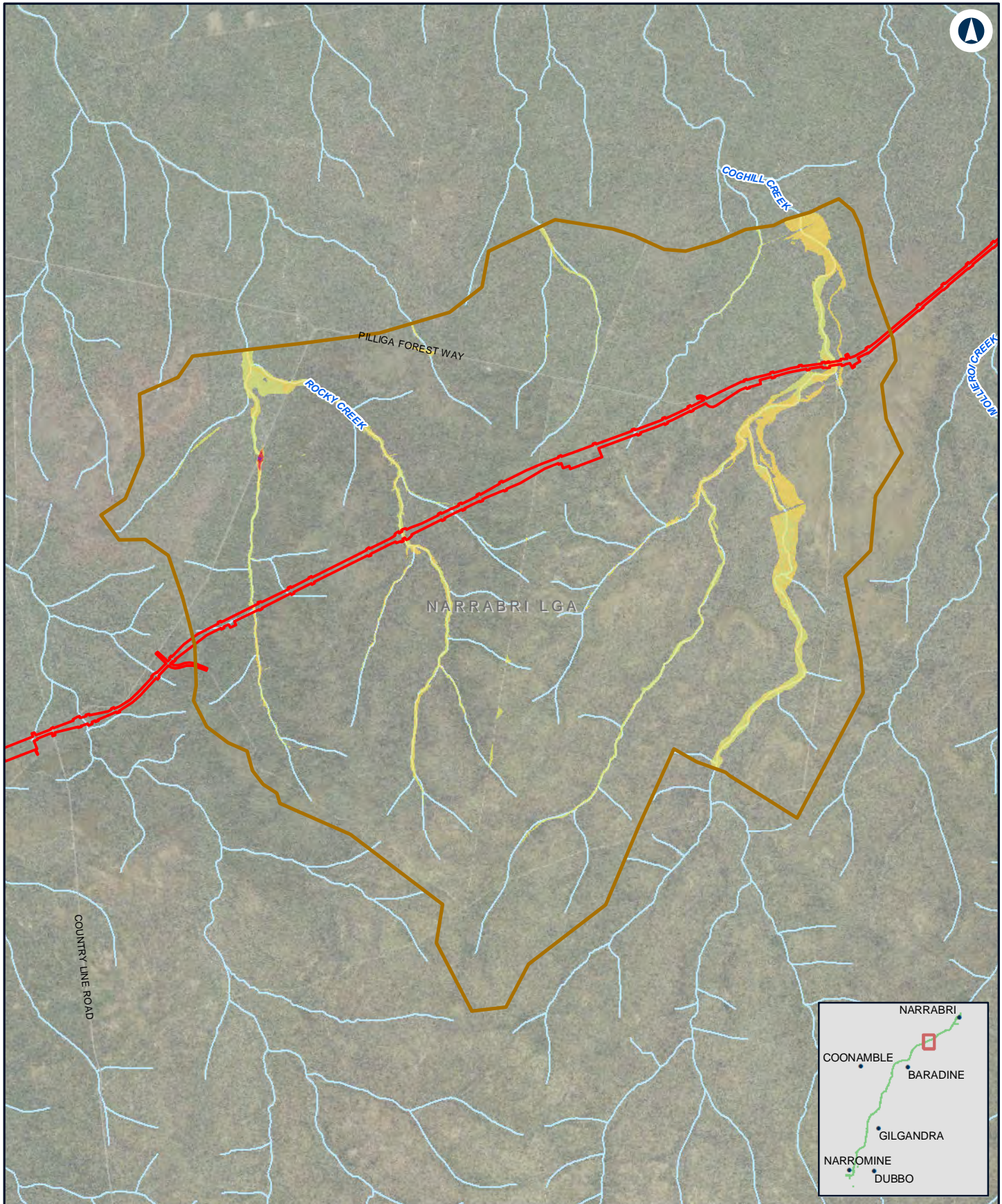
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



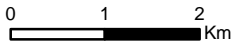
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N4

Appendix G - Figure 3.4k



Coordinate System: GDA 1994 MGA Zone 55
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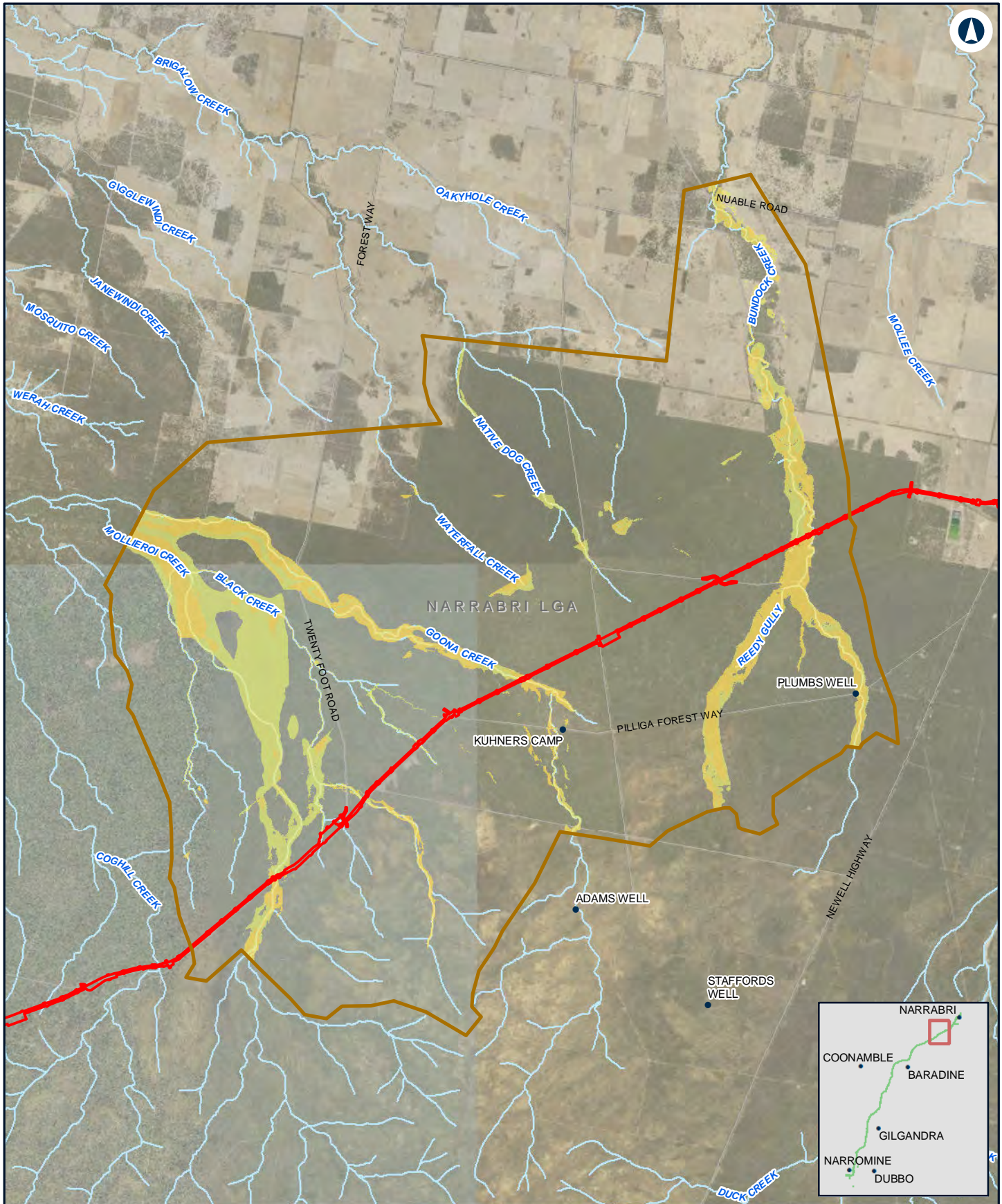
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:80,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



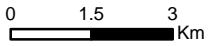
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - N2N23

Appendix G - Figure 3.4I

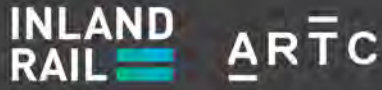


Coordinate System: GDA 1994 MGA Zone 55
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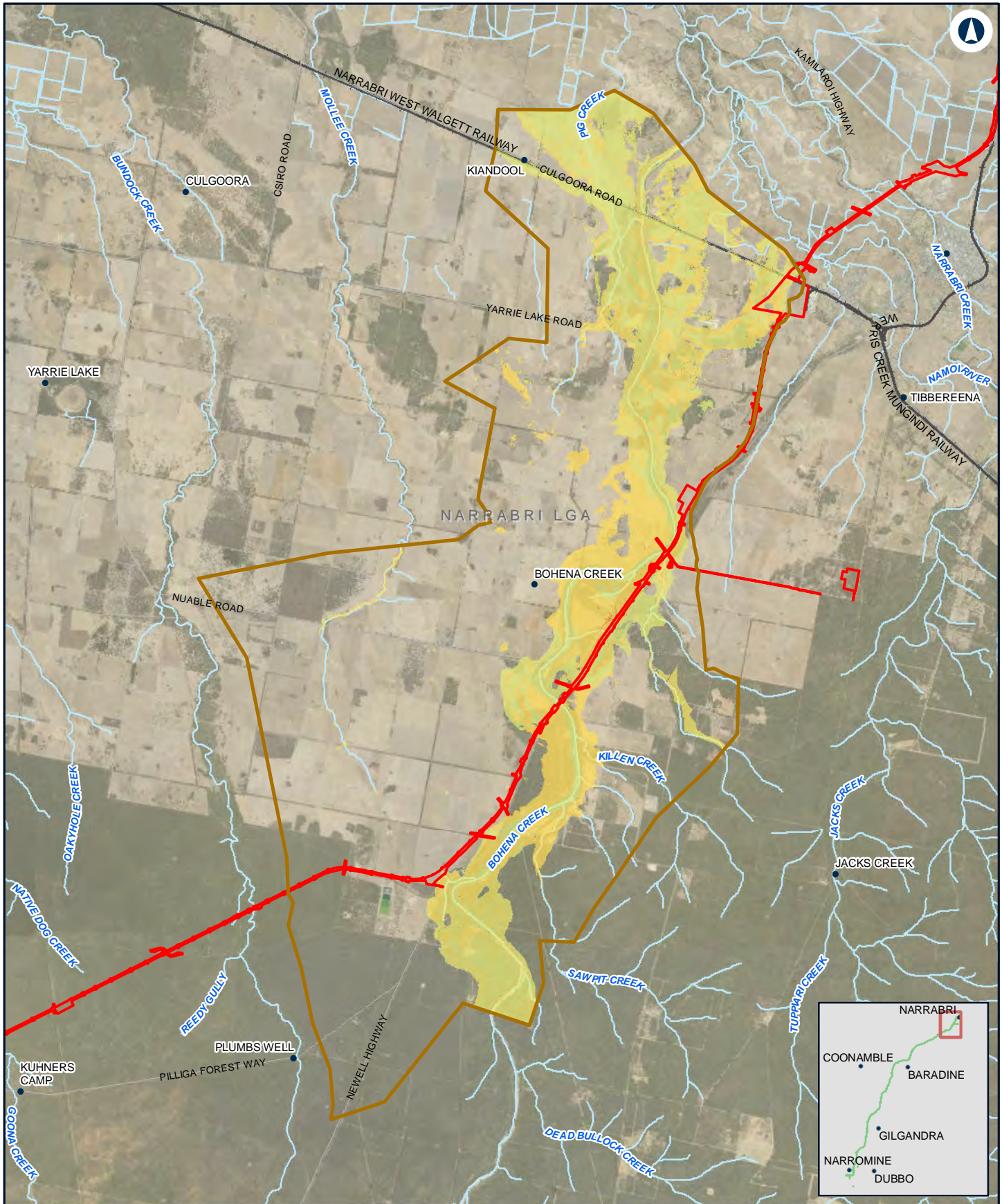
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



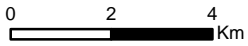
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARRABRI TO NARRABRI

Change in duration - 1% AEP - N2N1

Appendix G - Figure 3.4m

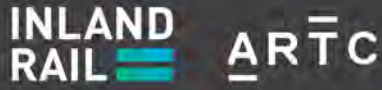


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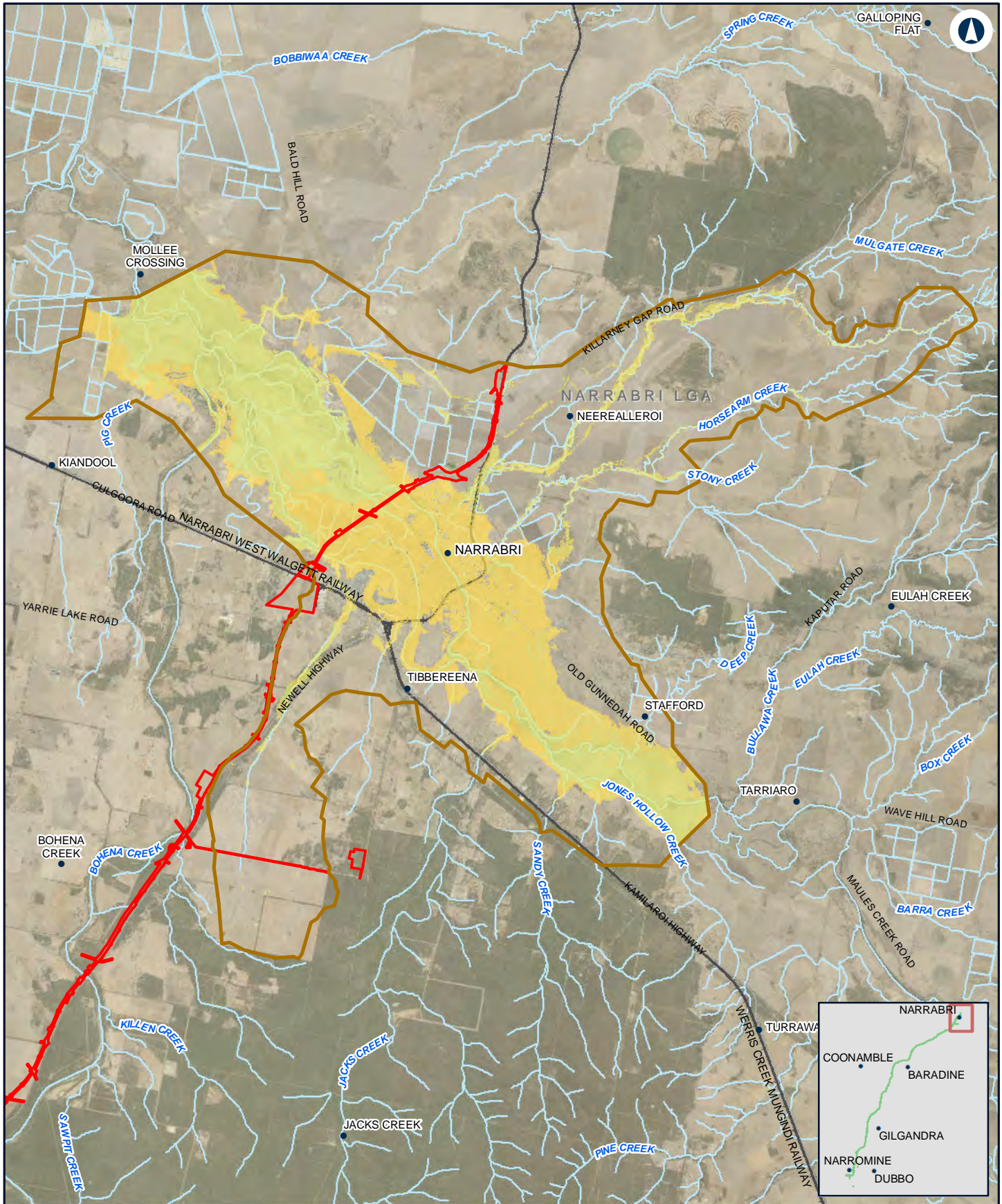
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



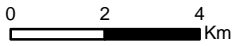
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP - Narrabri

Appendix G - Figure 3.4n

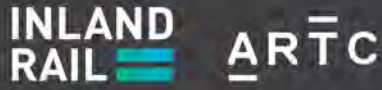


Coordinate System: GDA 1994 MGA Zone 55
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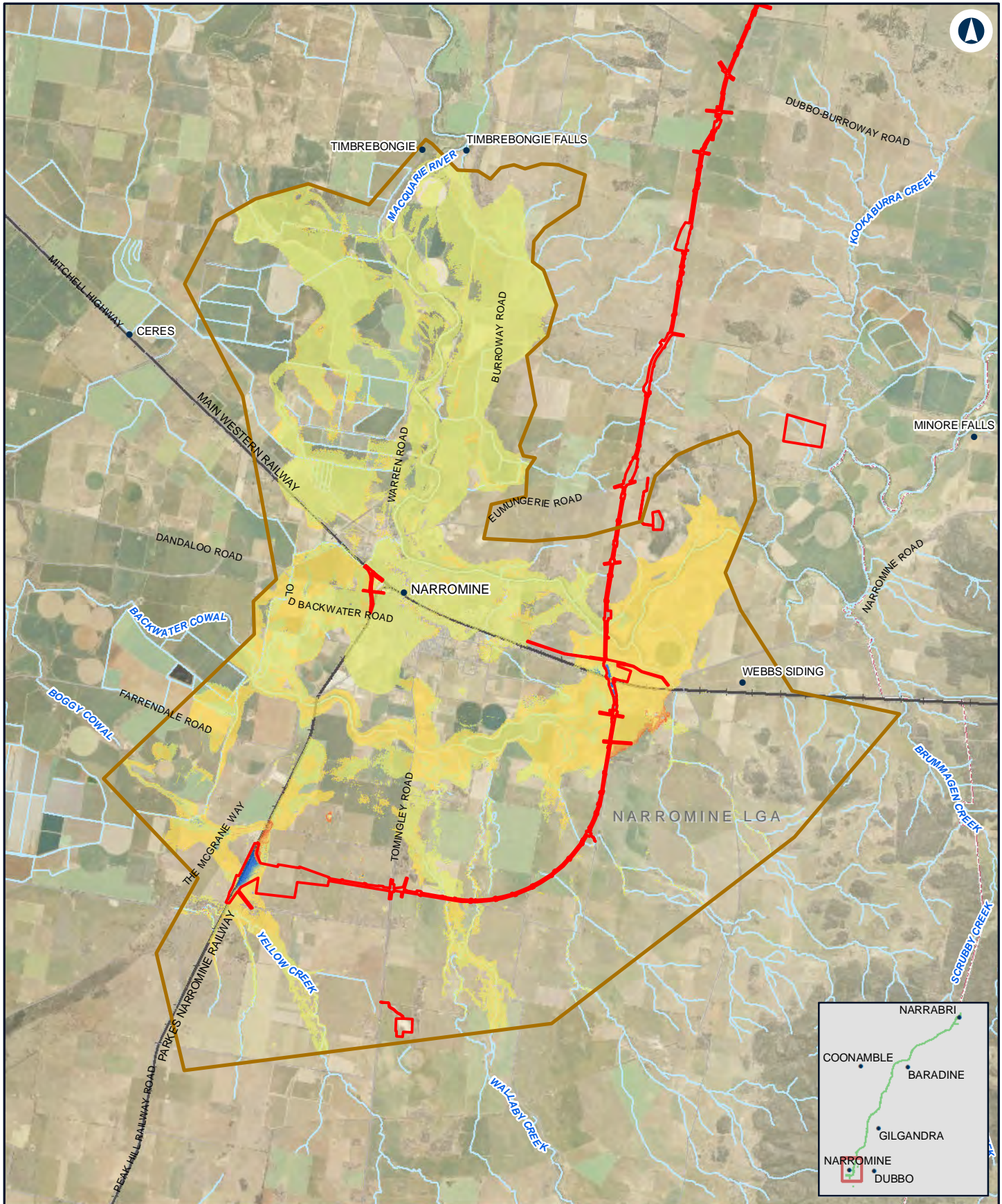
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 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 decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- > 24 hr increase



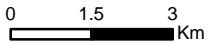
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NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - NFM

Appendix G - Figure 3.5a



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LEGEND

- The proposal site
- Model boundary
- 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

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI Change in duration - 1% AEP with climate change - N2N14 Appendix G - Figure 3.5b

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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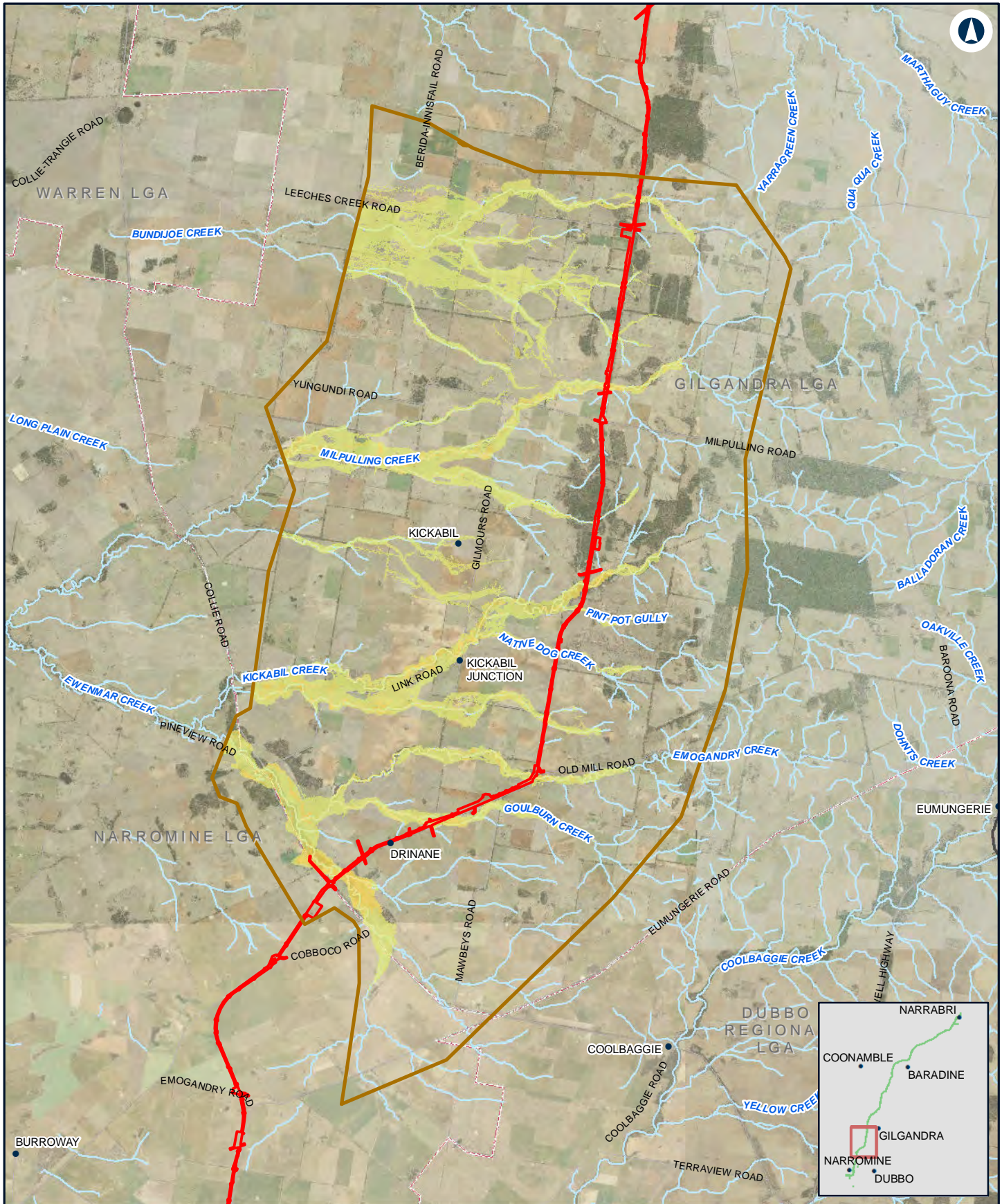
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

The proposal site	0 hr - 3 hr decrease
Model boundary	0 hr - 3 hr increase
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	> 24 hr increase
3 hr - 6 hr decrease	

INLAND RAIL **ARTC**

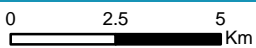
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N13

Appendix G - Figure 3.5c

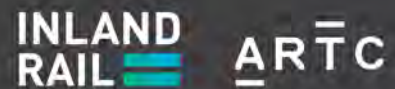


LEGEND

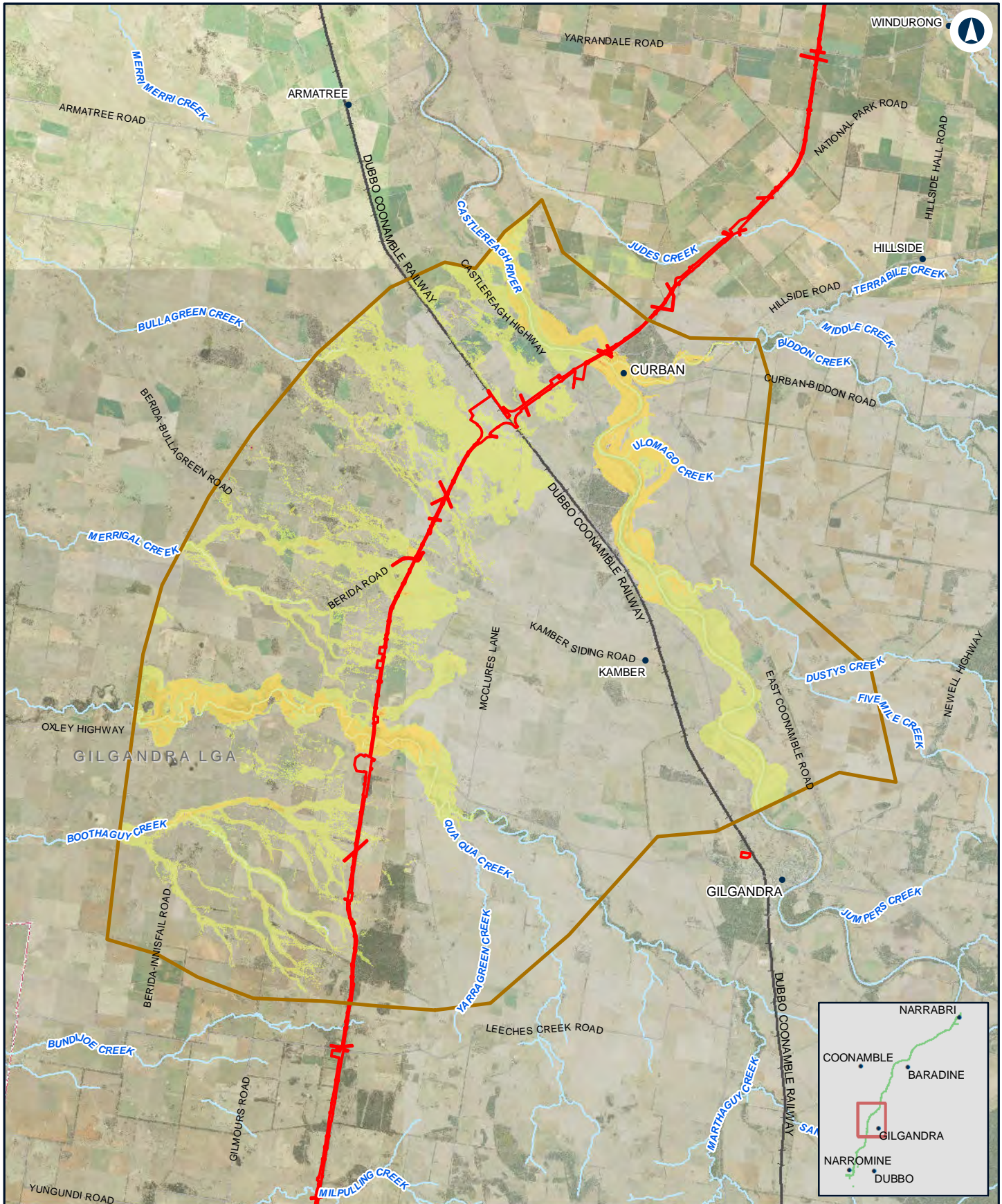
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



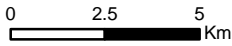
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NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N11N12

Appendix G - Figure 3.5d



Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020
 Author: JacobsGHD
 Paper: A4
 Scale: 1:200,000

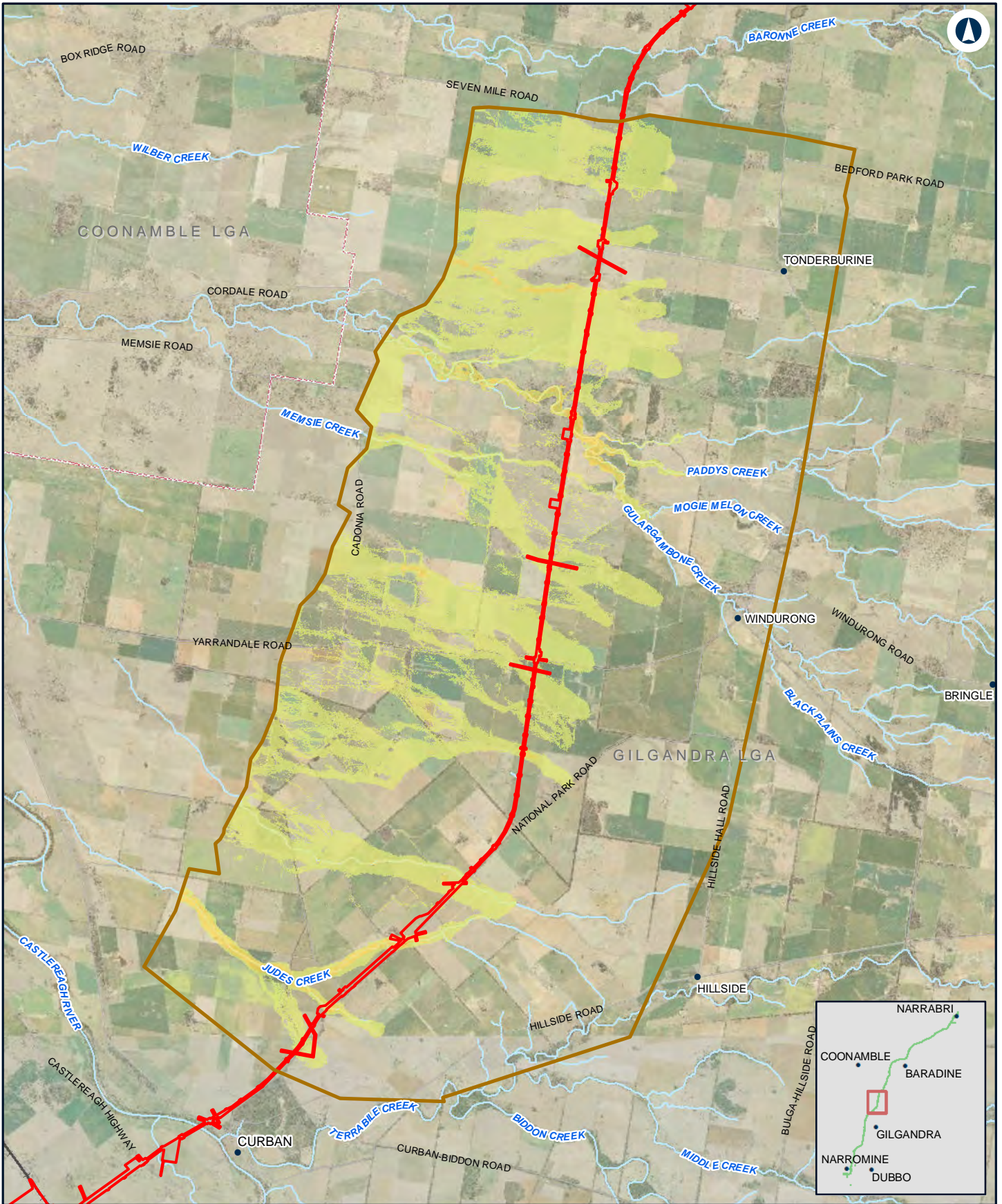
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



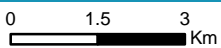
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NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N10

Appendix G - Figure 3.5e



Coordinate System: GDA 1994 MGA Zone 55

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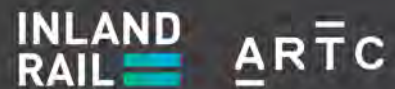
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

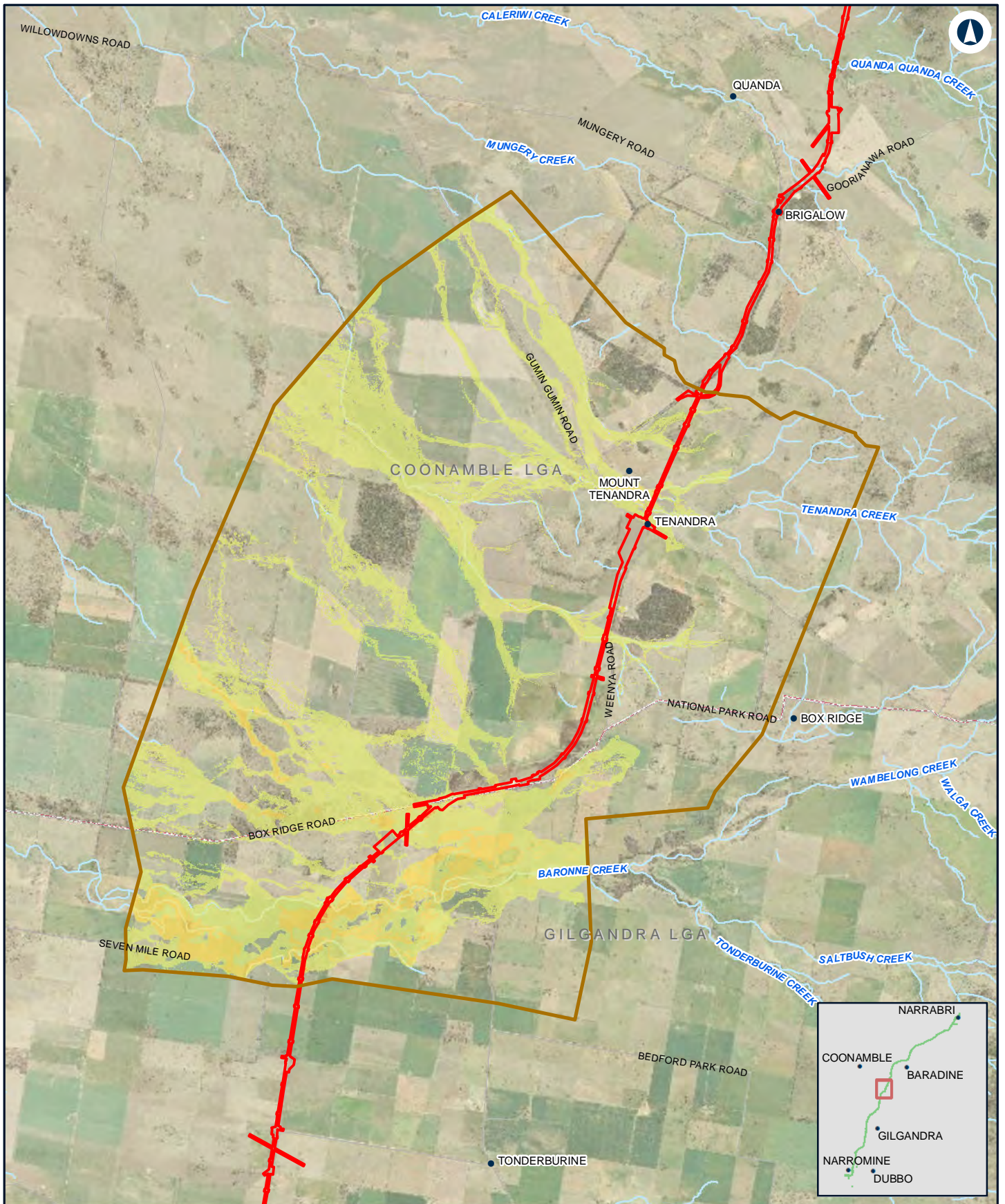
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



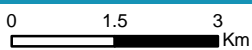
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N9

Appendix G - Figure 3.5f



Coordinate System: GDA 1994 MGA Zone 55

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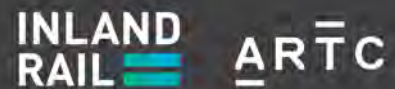
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000

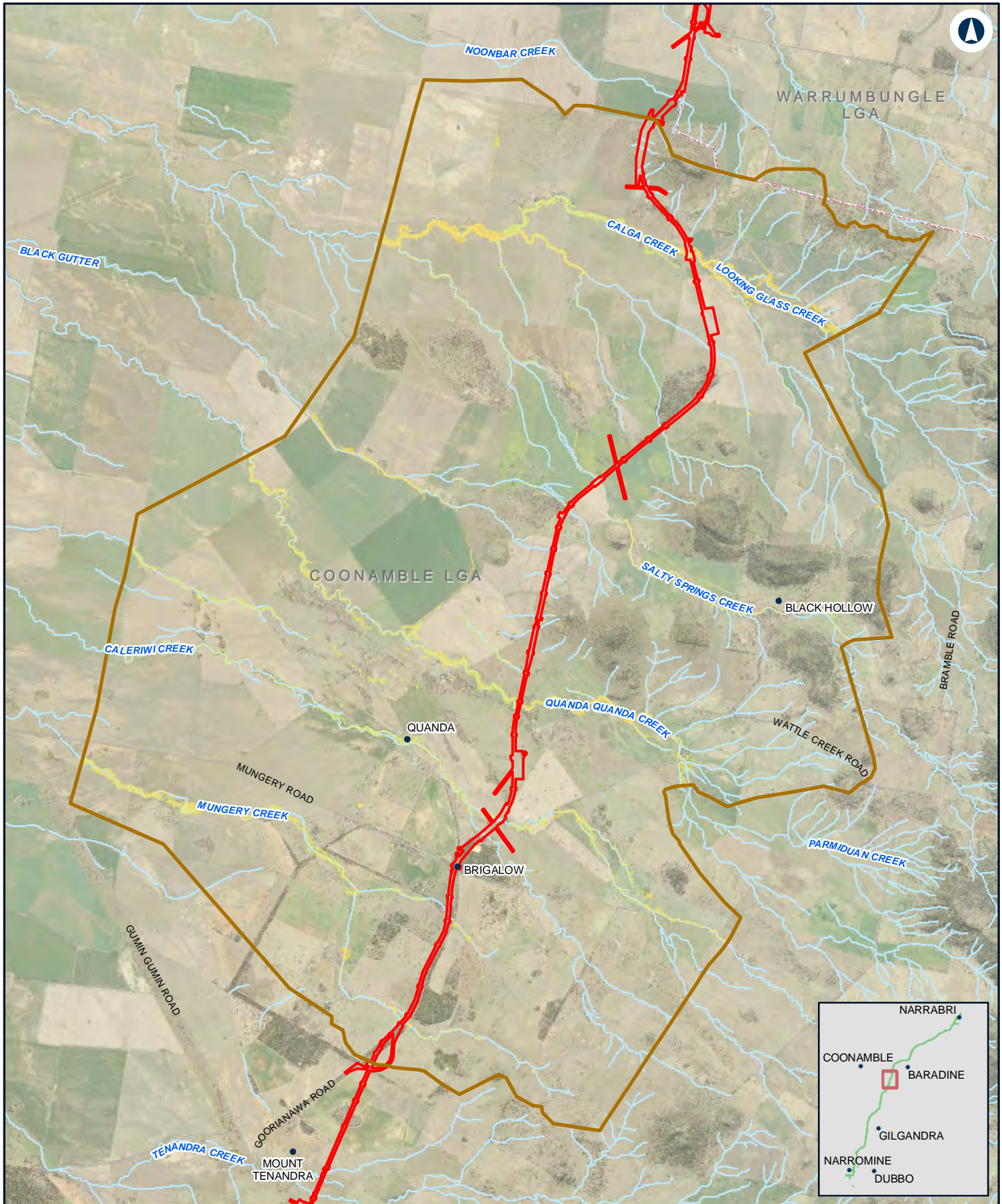
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- > 24 hr decrease
- 3 hr - 6 hr increase
- 12 hr - 24 hr decrease
- 6 hr - 12 hr increase
- 6 hr - 12 hr decrease
- > 24 hr increase
- 3 hr - 6 hr decrease



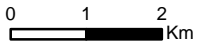
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N8

Appendix G - Figure 3.5g



Coordinate System: GDA 1994 MGA Zone 55
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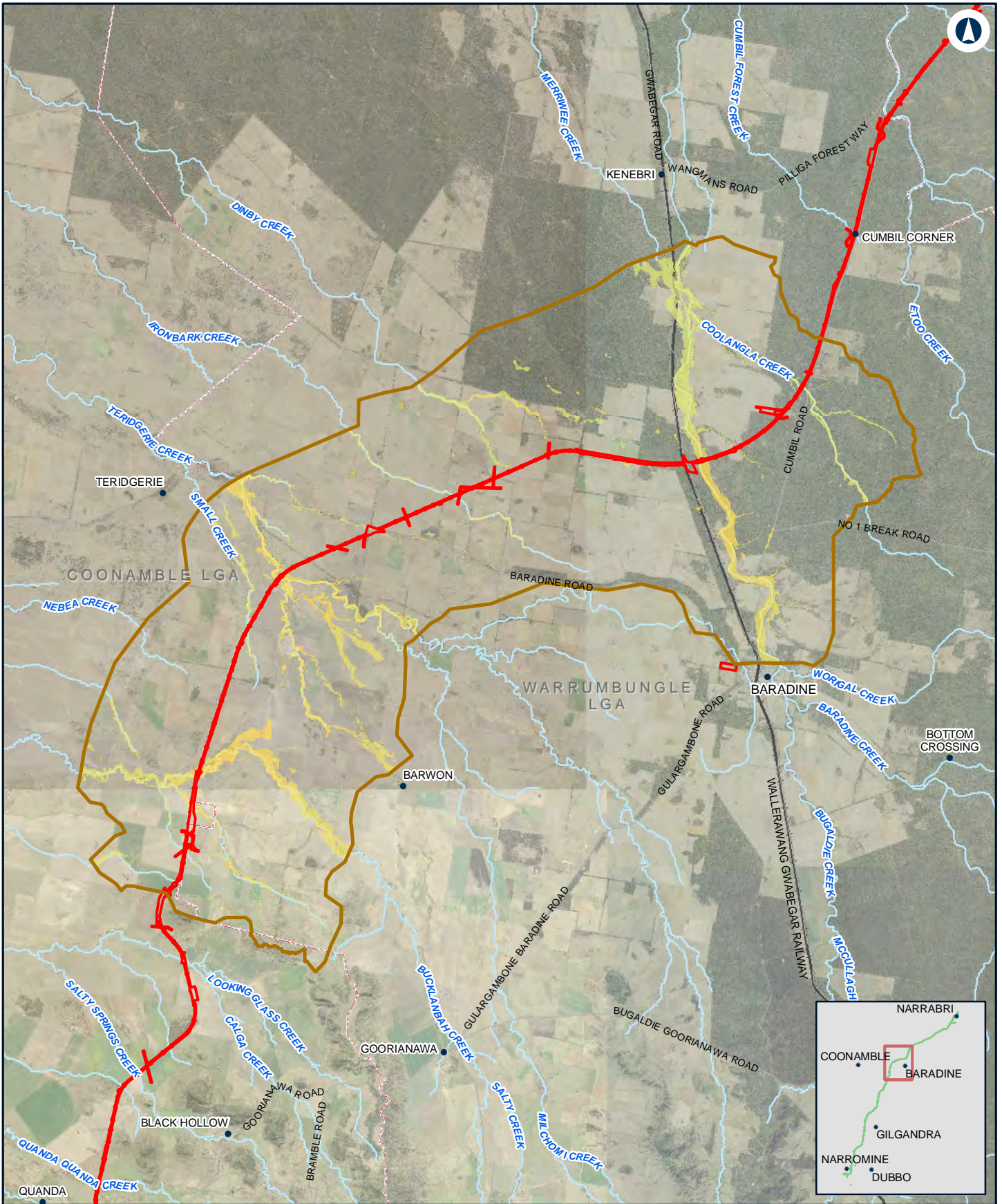
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



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



NARRABRIE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N7

Appendix G - Figure 3.5h



Coordinate System: GDA 1994 MGA Zone 55

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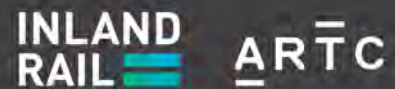
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

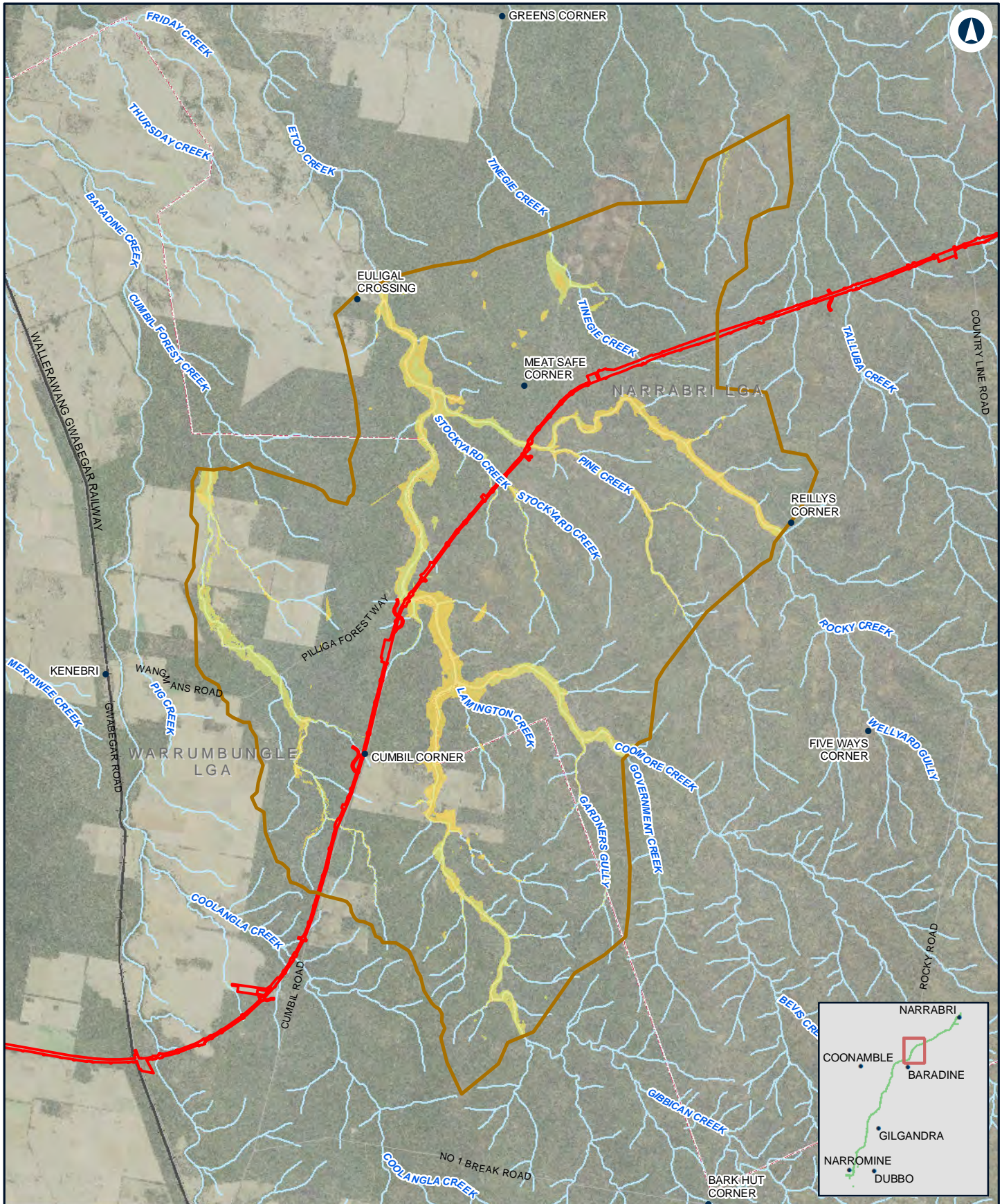
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



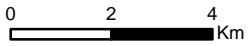
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NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N6

Appendix G - Figure 3.5i

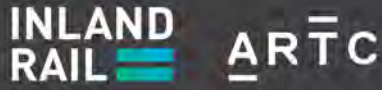


LEGEND

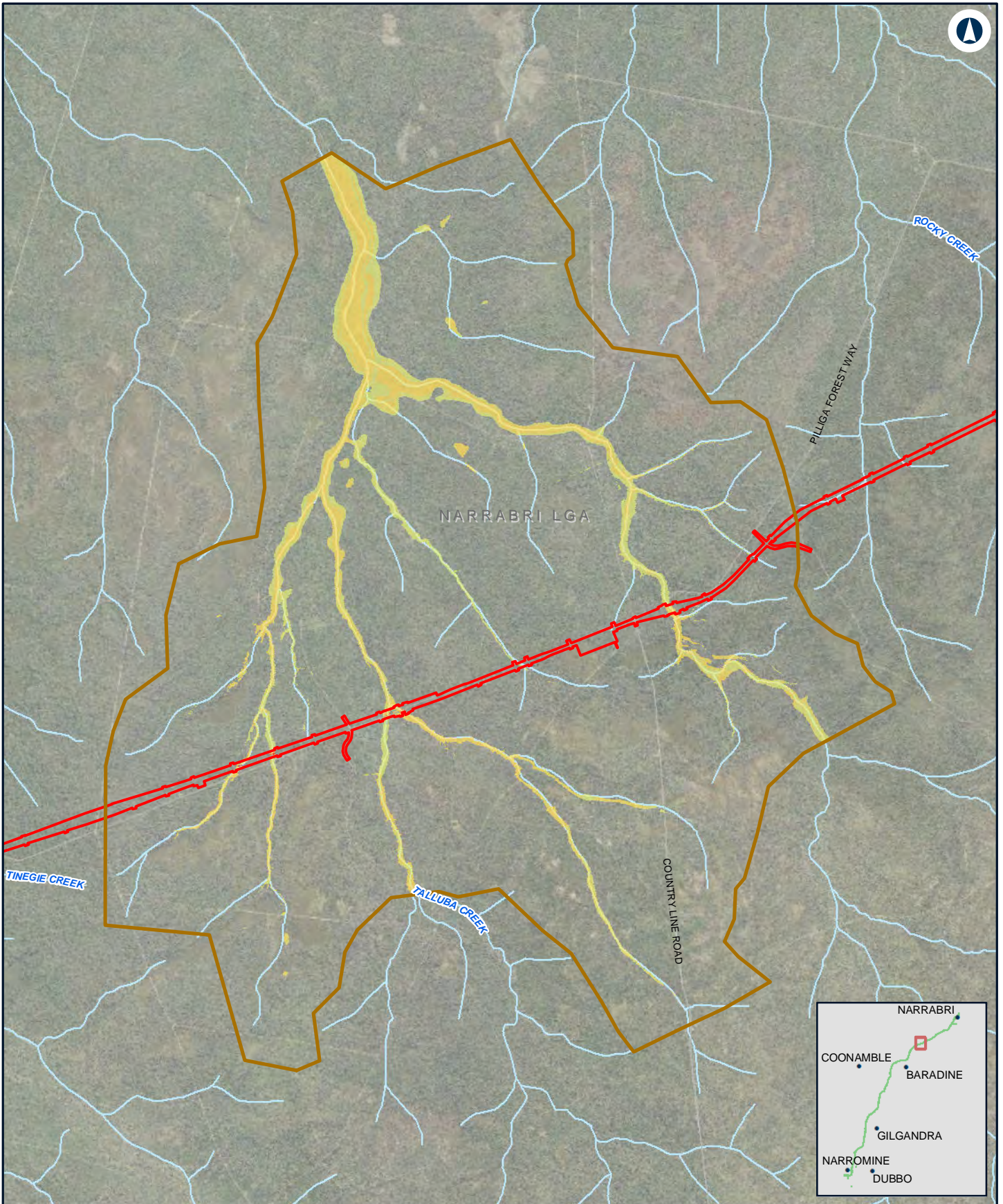
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARRABRI TO NARRABRI

Change in duration - 1% AEP with climate change - N2N5

Appendix G - Figure 3.5j



Coordinate System: GDA 1994 MGA Zone 55

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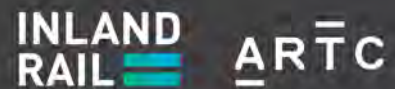
ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map.

Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

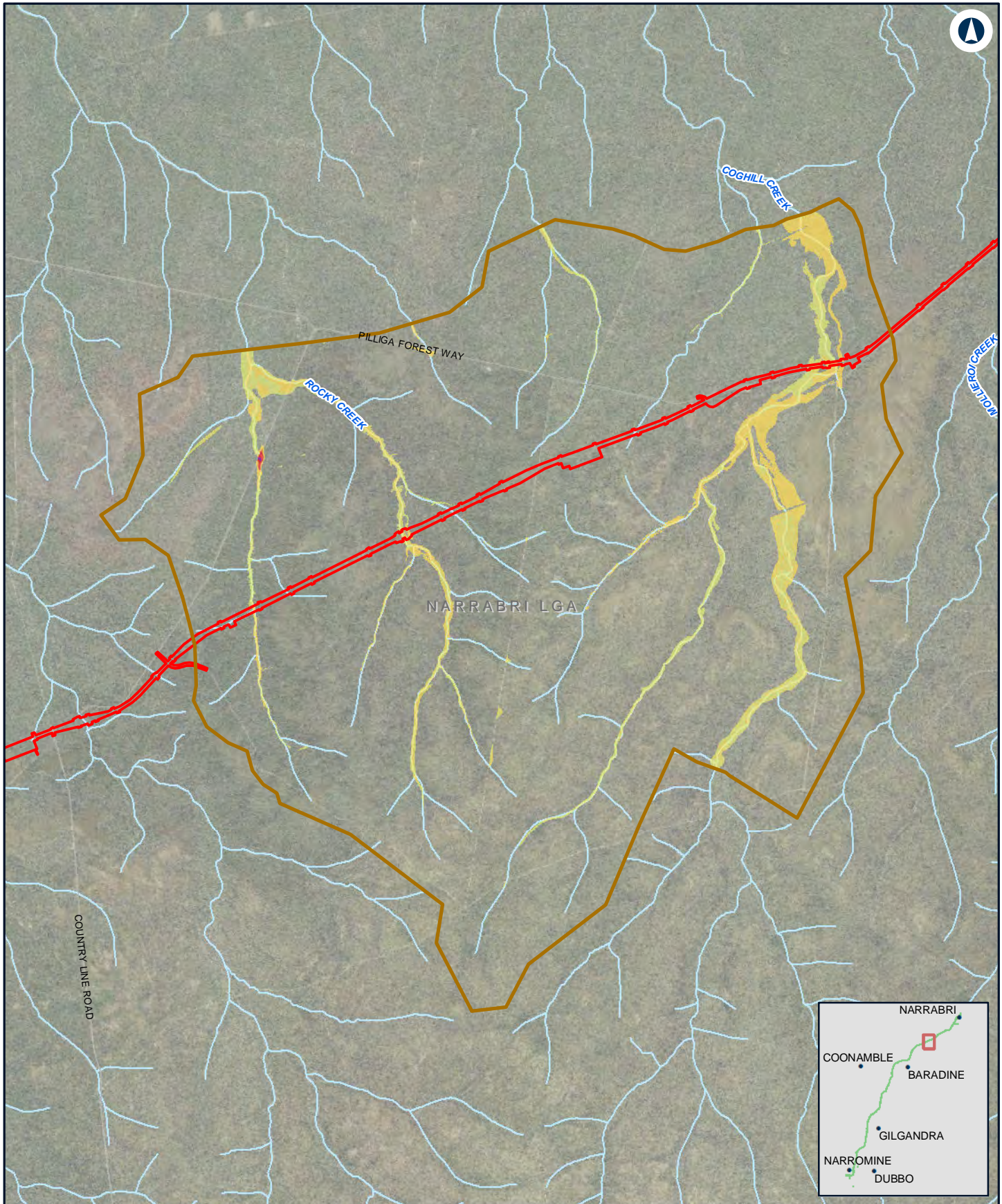
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



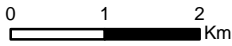
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N4

Appendix G - Figure 3.5k



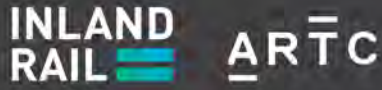
Coordinate System: GDA 1994 MGA Zone 55
 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC 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: 27/10/2020
 Author: JacobsGHD
 Paper: A4
 Scale: 1:80,000

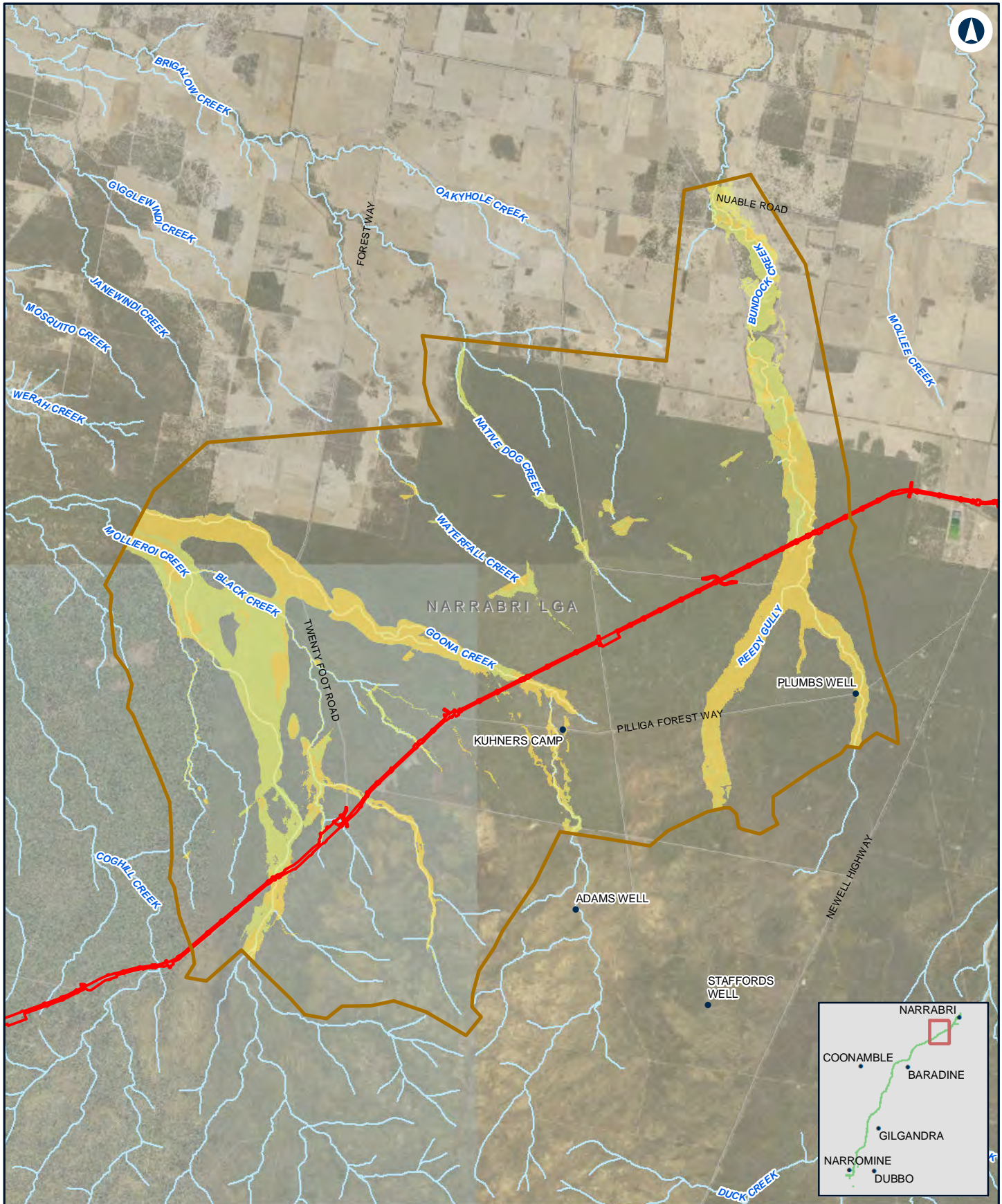
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



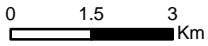
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - N2N23

Appendix G - Figure 3.5I



Coordinate System: GDA 1994 MGA Zone 55
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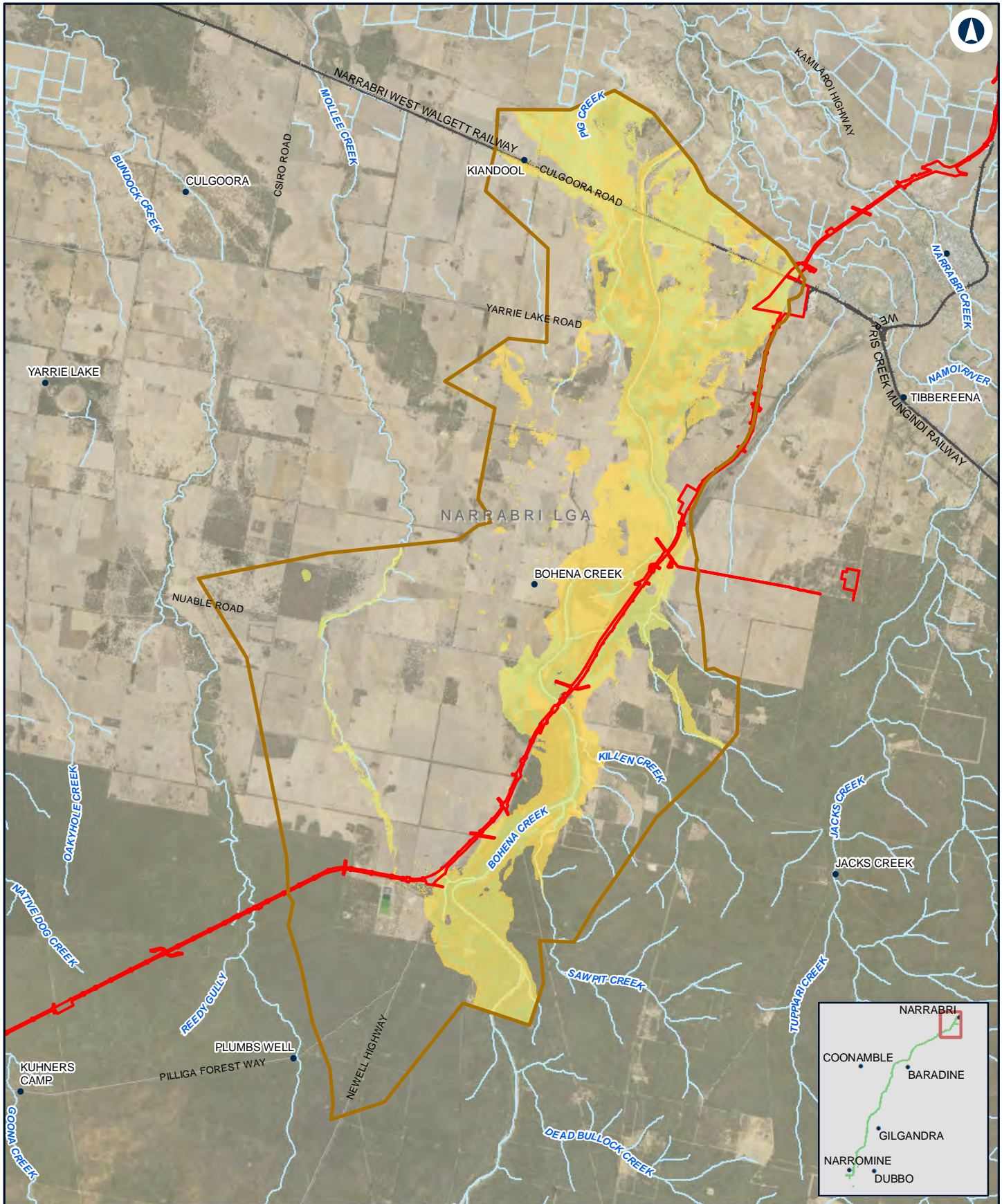
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



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 climate change - N2N1

Appendix G - Figure 3.5m

0 2 4 Km

Coordinate System: GDA 1994 MGA Zone 55

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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

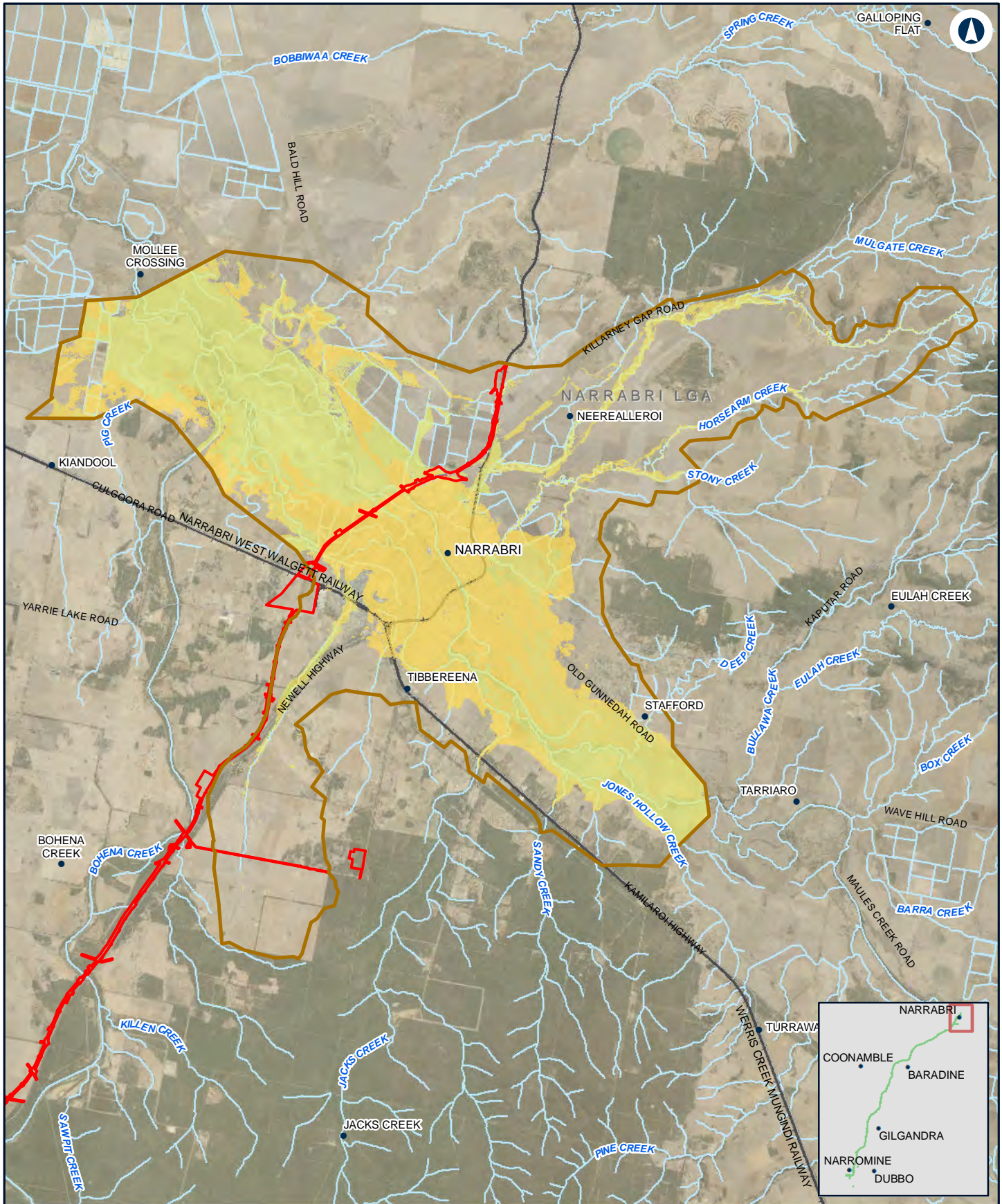
- The proposal site
- Model boundary

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**

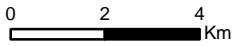
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Change in duration - 1% AEP with climate change - Narrabri

Appendix G - Figure 3.5n

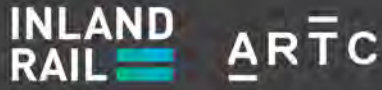


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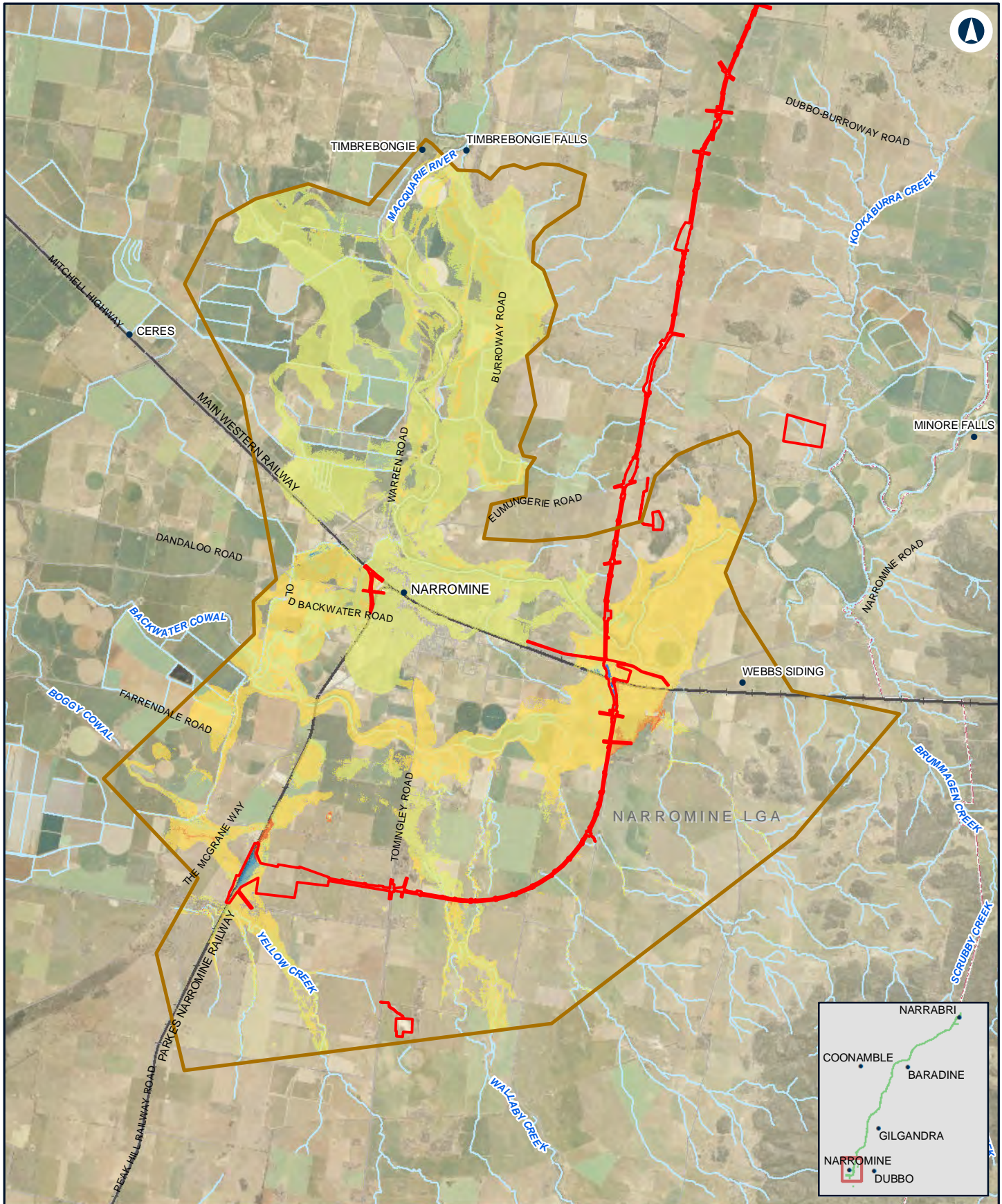
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



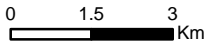
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NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - NFM

Appendix G - Figure 3.6a

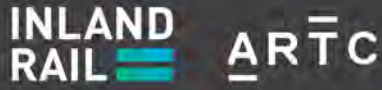


Coordinate System: GDA 1994 MGA Zone 55
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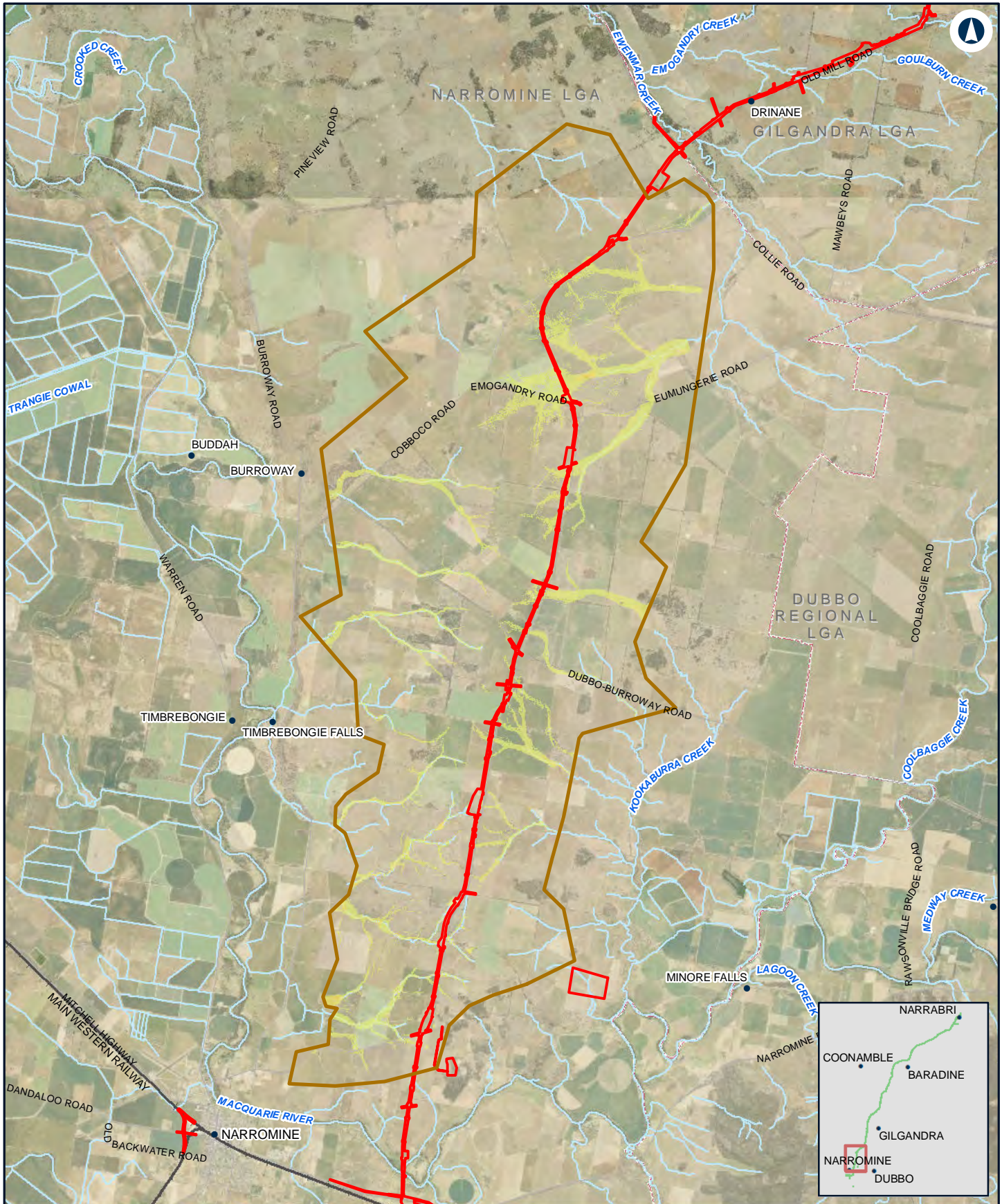
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 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
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease



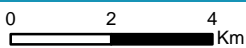
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N14

Appendix G - Figure 3.6b



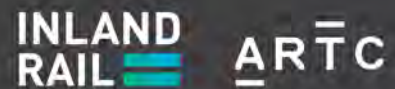
LEGEND

- The proposal site
- Model boundary
- 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

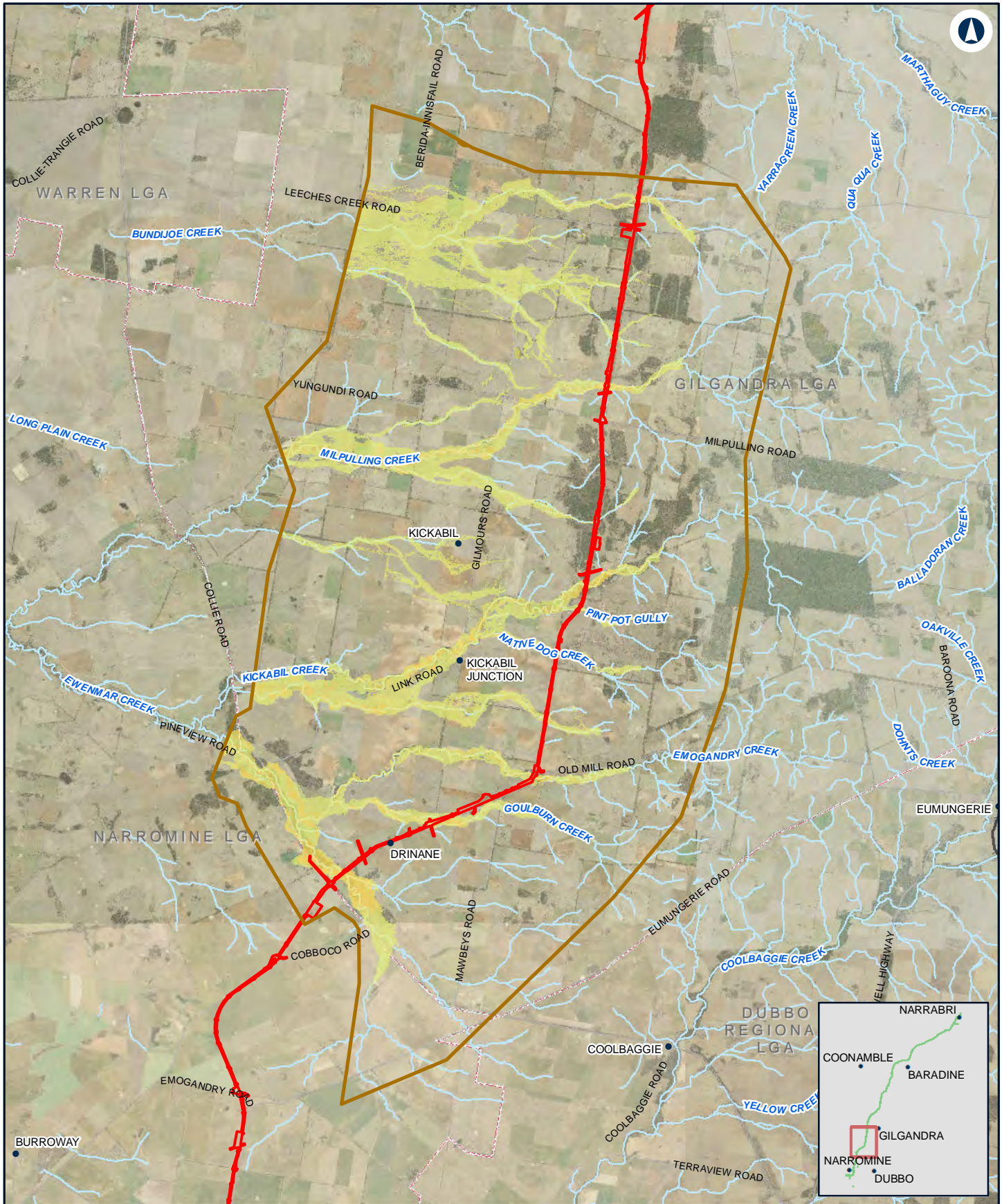
Coordinate System: GDA 1994 MGA Zone 55
 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC 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: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000

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

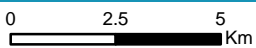


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NARROMINE TO NARRABRI Flood impact 0.5% AEP - duration - N2N13

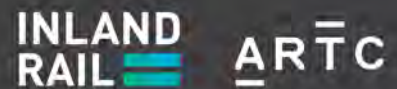
Appendix G - Figure 3.6c



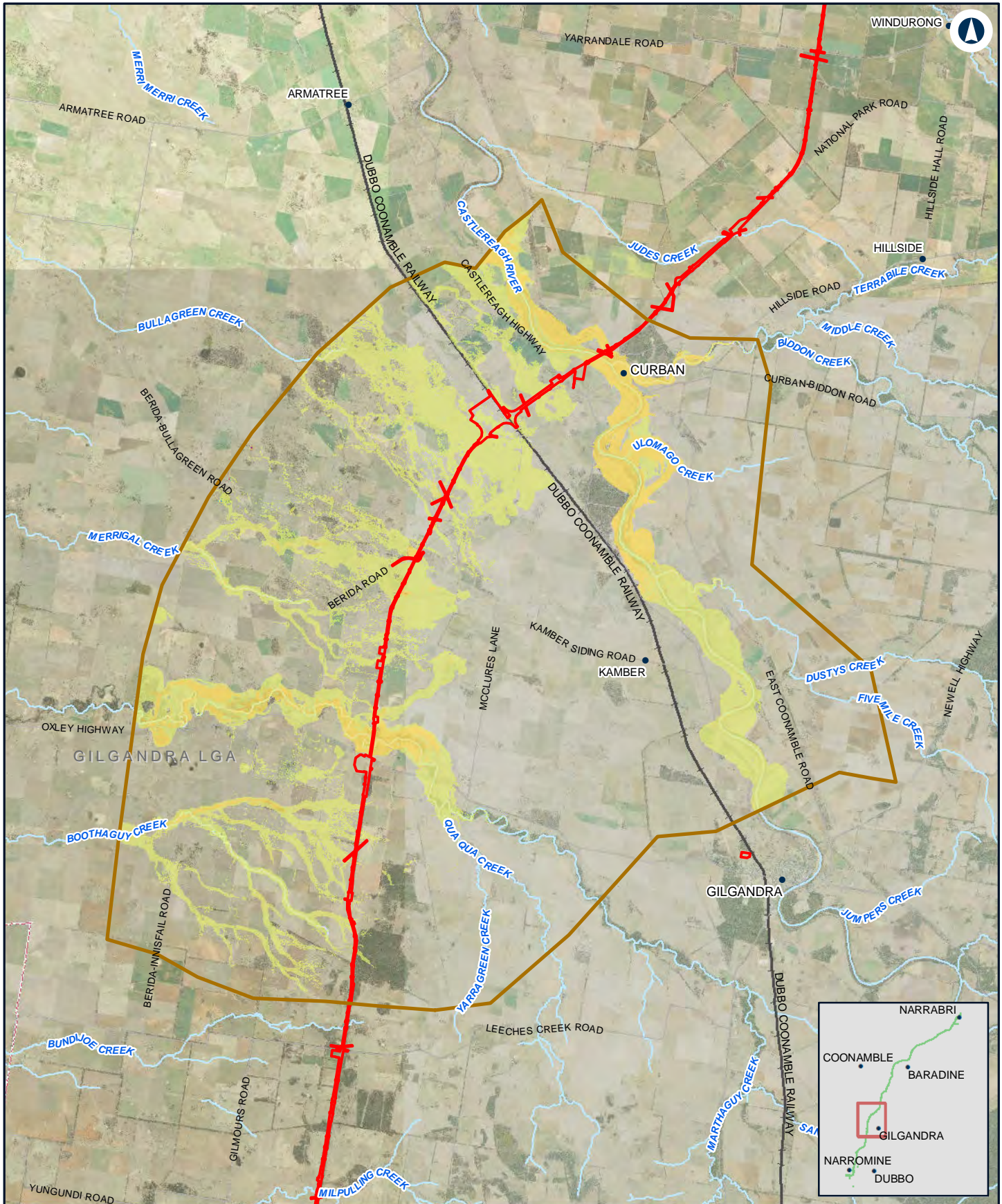
LEGEND

- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



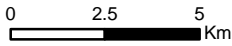
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NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N11N12

Appendix G - Figure 3.6d



Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020
 Author: JacobsGHD
 Paper: A4
 Scale: 1:200,000

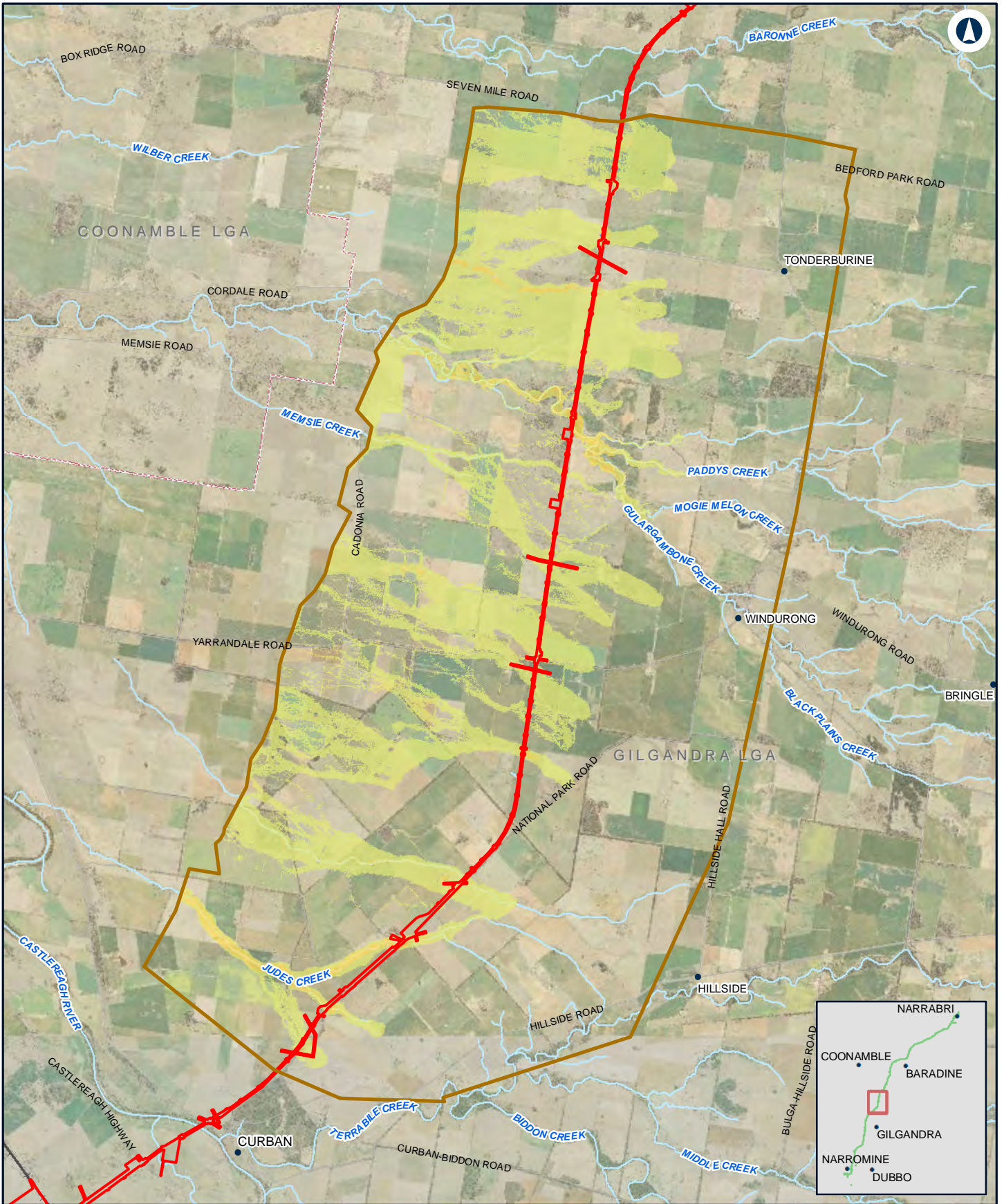
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



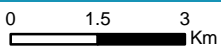
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NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N10

Appendix G - Figure 3.6e



Coordinate System: GDA 1994 MGA Zone 55

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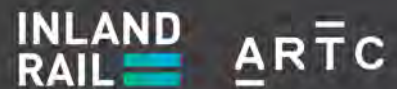
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

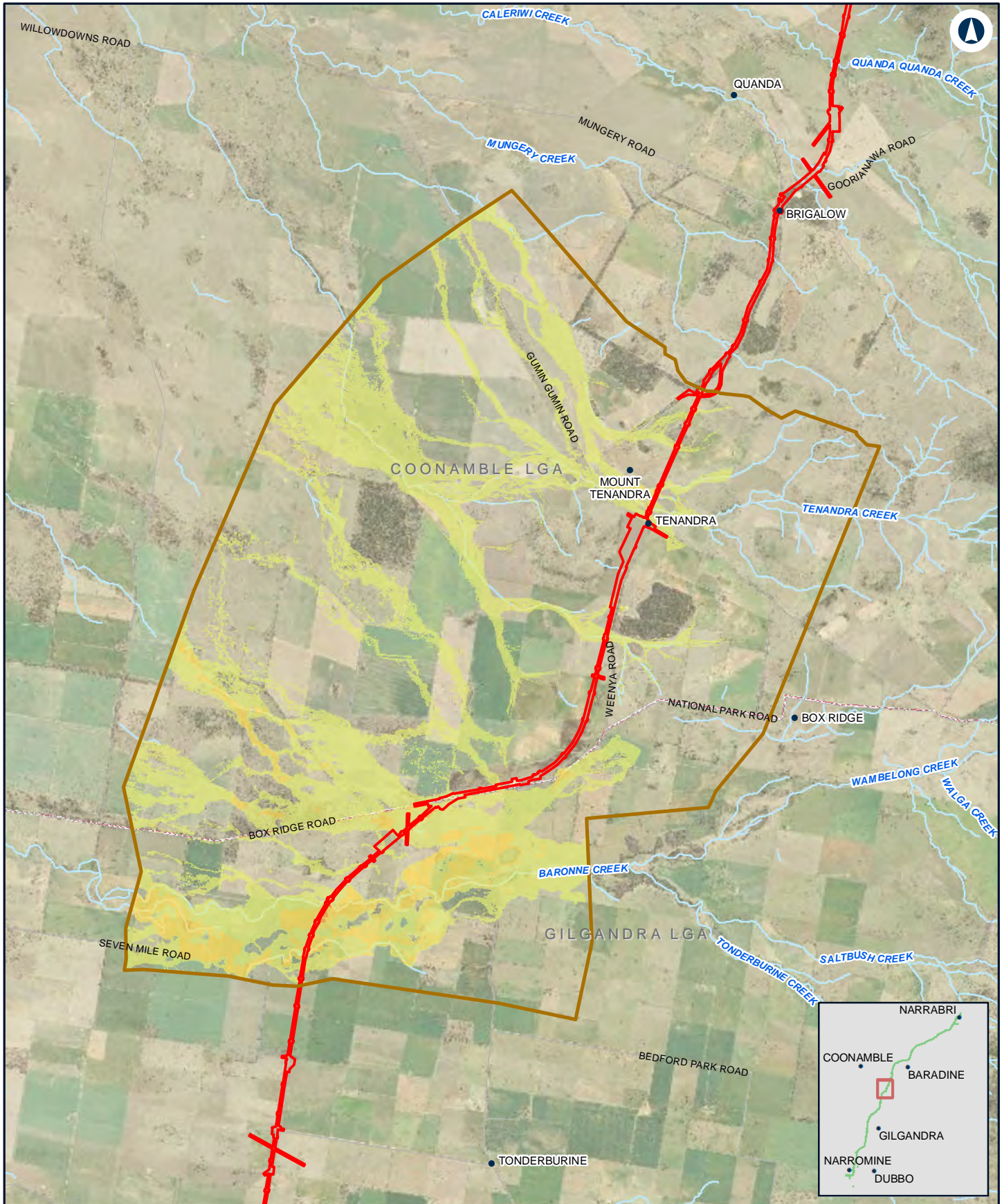
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



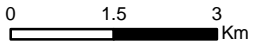
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NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N9

Appendix G - Figure 3.6f



LEGEND

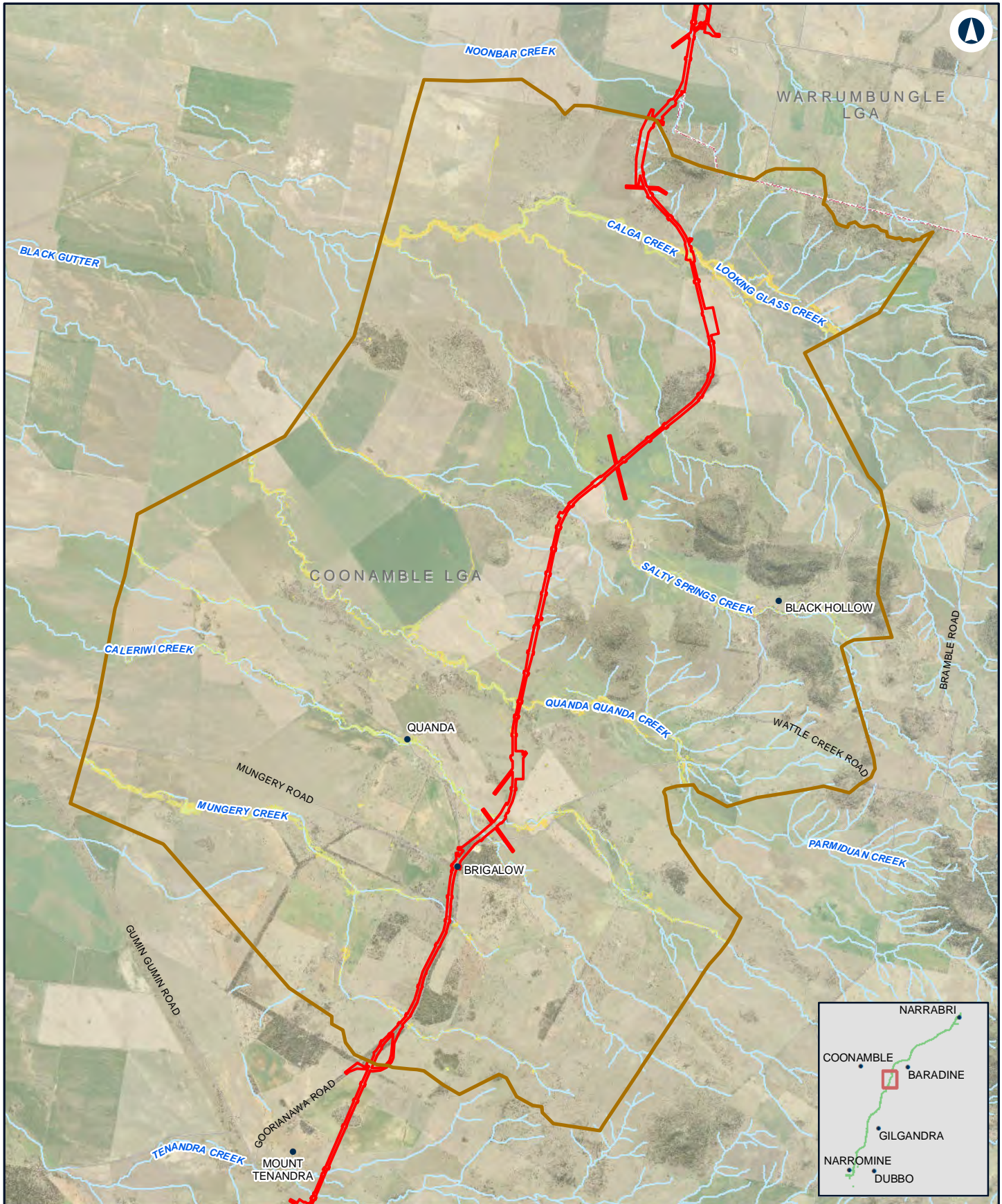
- The proposal site
- Model boundary
- Duration Change**
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:110,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



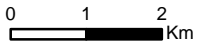
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N8

Appendix G - Figure 3.6g



Coordinate System: GDA 1994 MGA Zone 55
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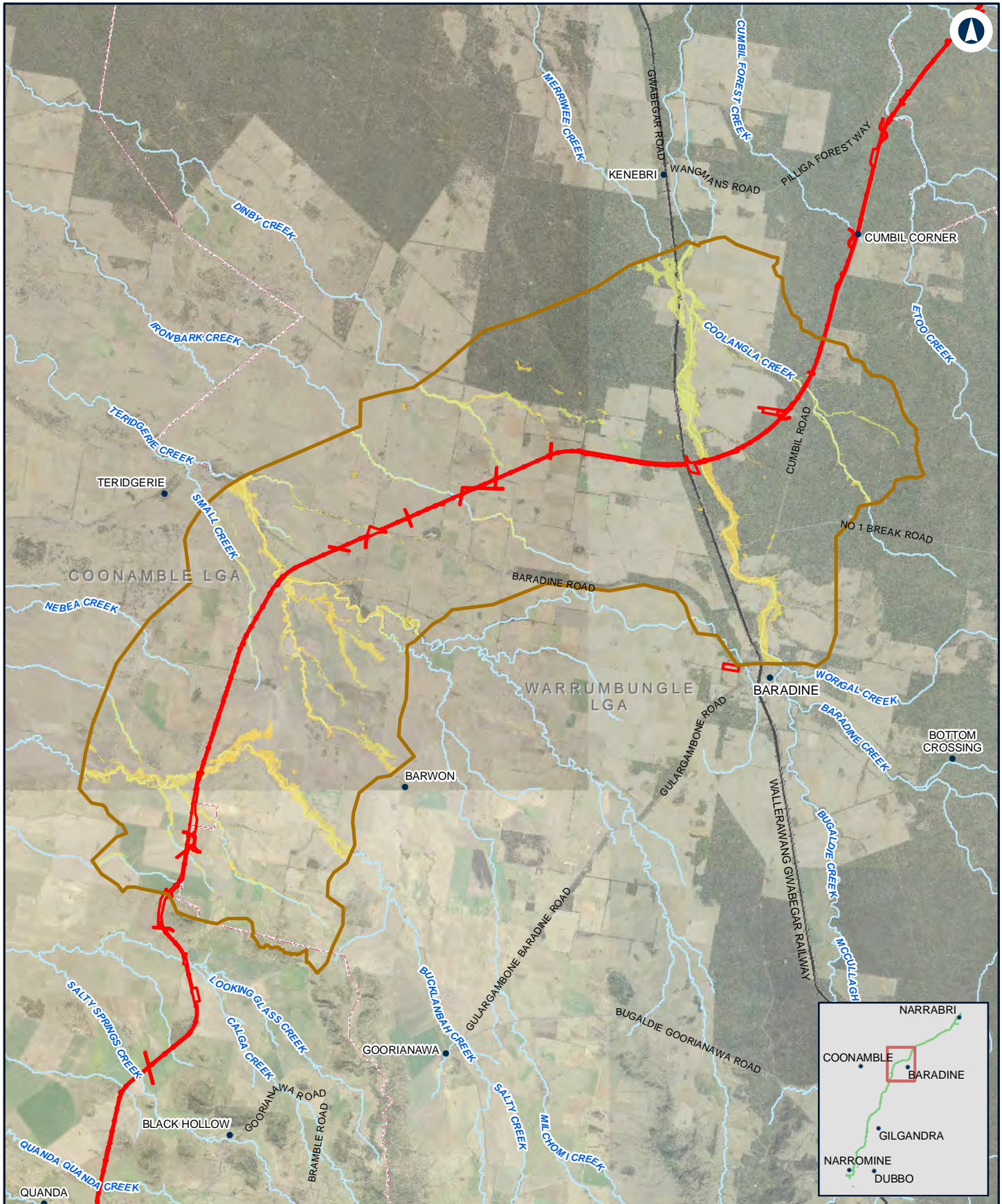
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:100,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 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

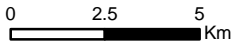


The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI Flood impact 0.5% AEP - duration - N2N7

Appendix G - Figure 3.6h

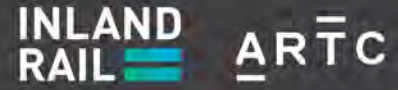


Coordinate System: GDA 1994 MGA Zone 55
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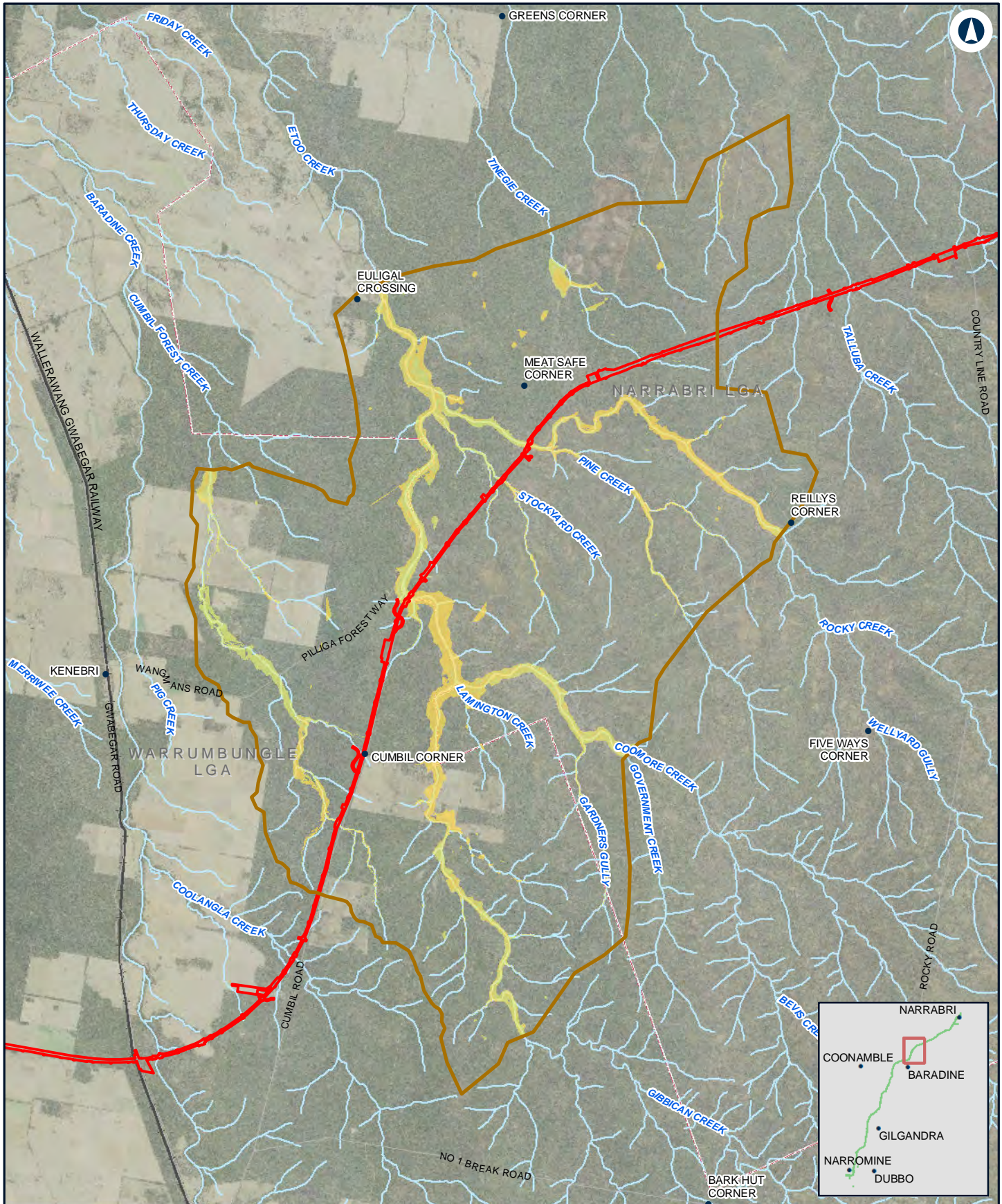
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
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- 12 hr - 24 hr increase
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- > 24 hr increase
- 3 hr - 6 hr decrease



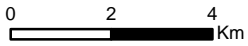
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N6

Appendix G - Figure 3.6i



LEGEND

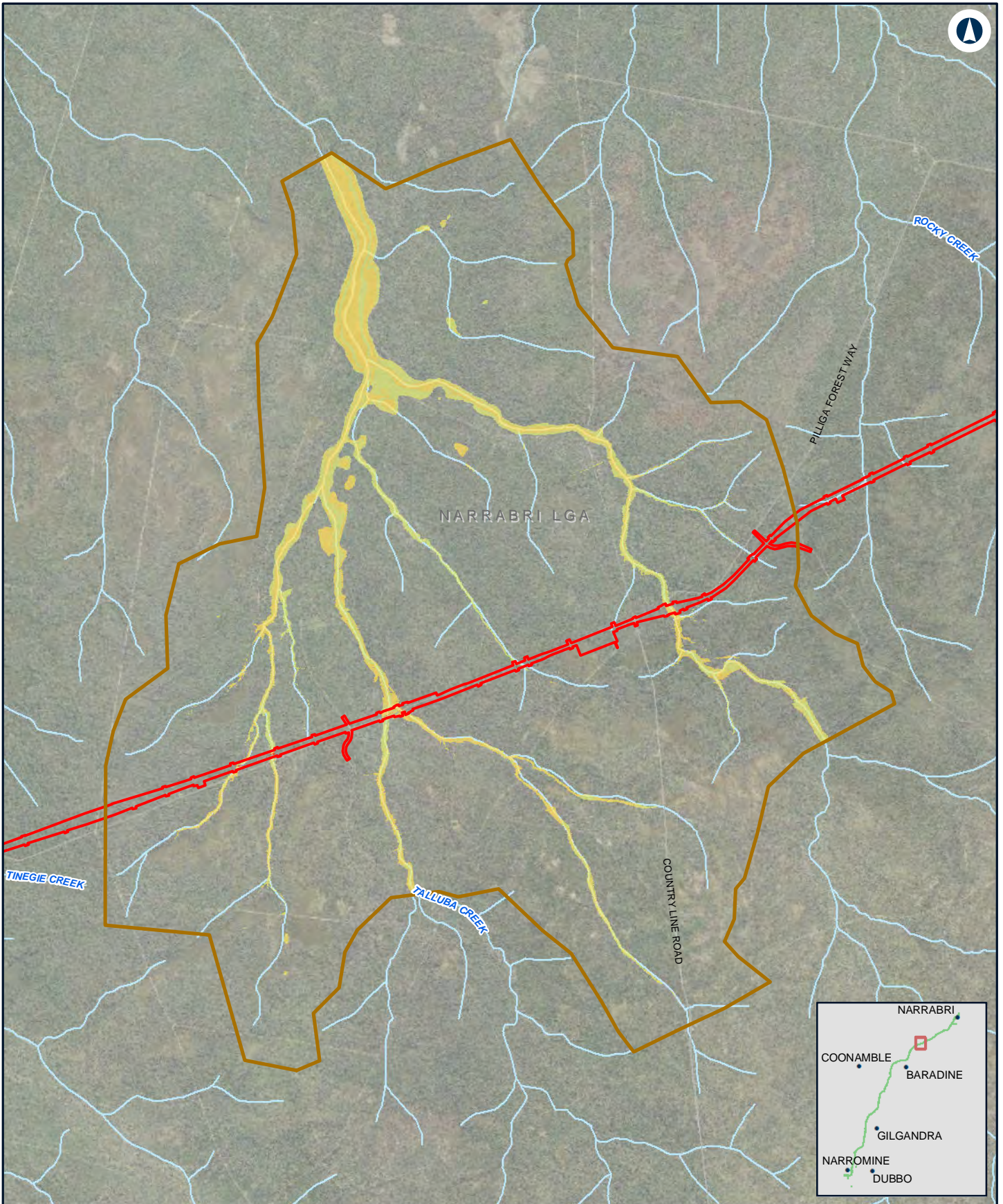
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



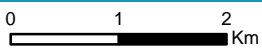
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N5

Appendix G - Figure 3.6j



Coordinate System: GDA 1994 MGA Zone 55

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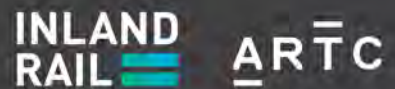
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:70,000

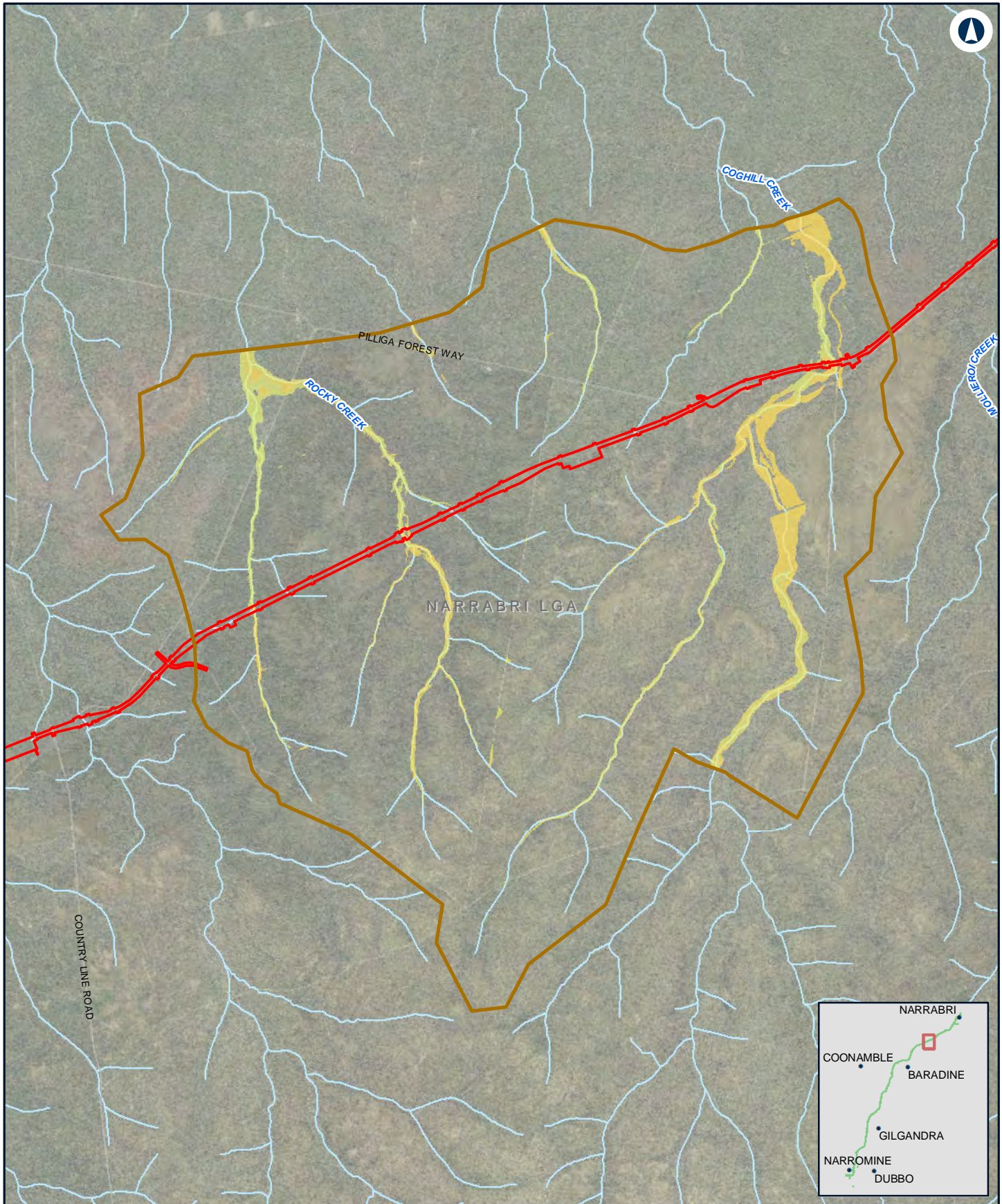
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase



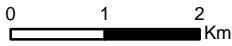
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N4

Appendix G - Figure 3.6k



Coordinate System: GDA 1994 MGA Zone 55
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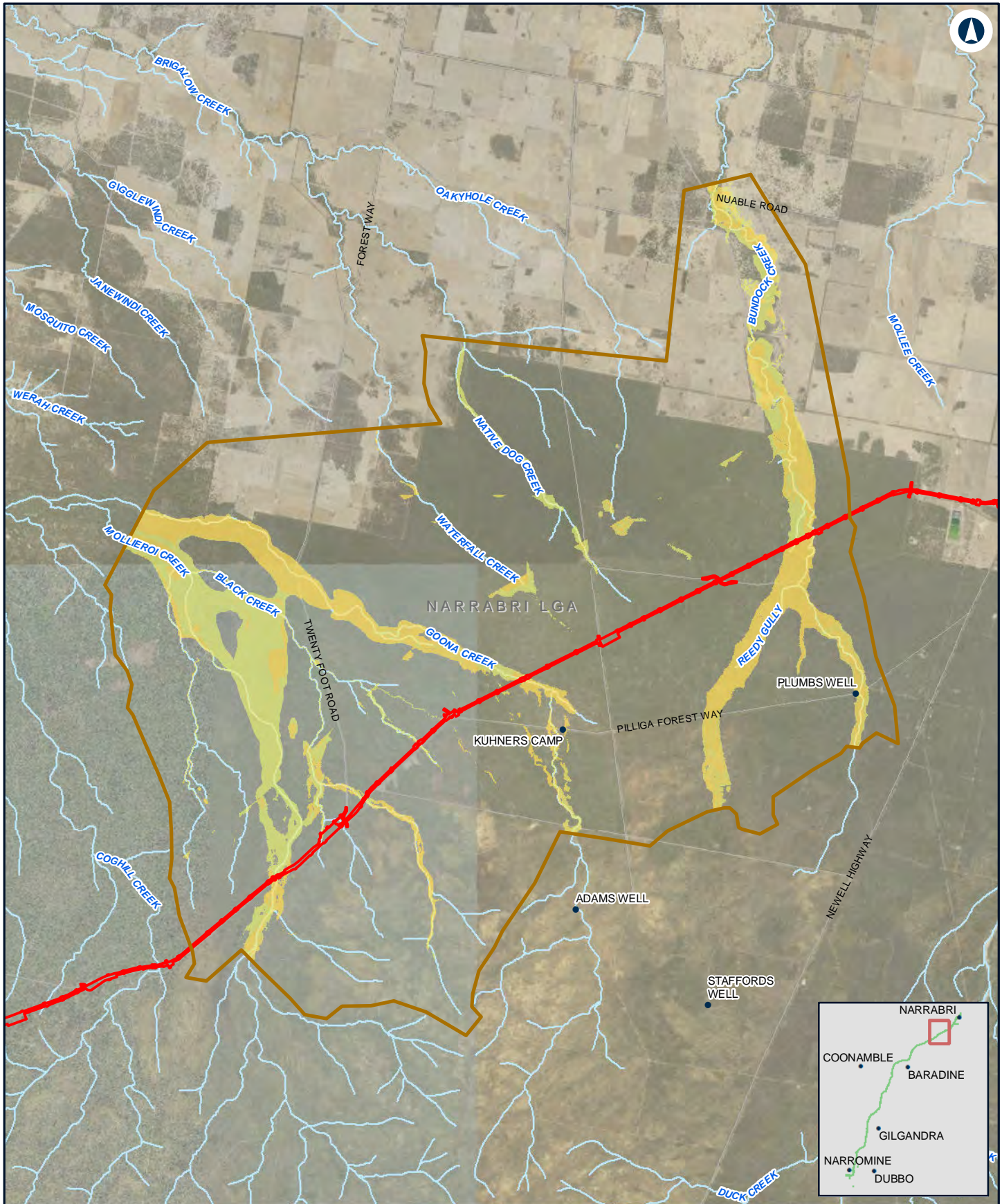
LEGEND

- The proposal site
- Model boundary
- Duration Change**
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- 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

Date: 28/10/2020
 Author: JacobsGHD
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



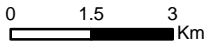
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.



NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N23

Appendix G - Figure 3.6I



Coordinate System: GDA 1994 MGA Zone 55
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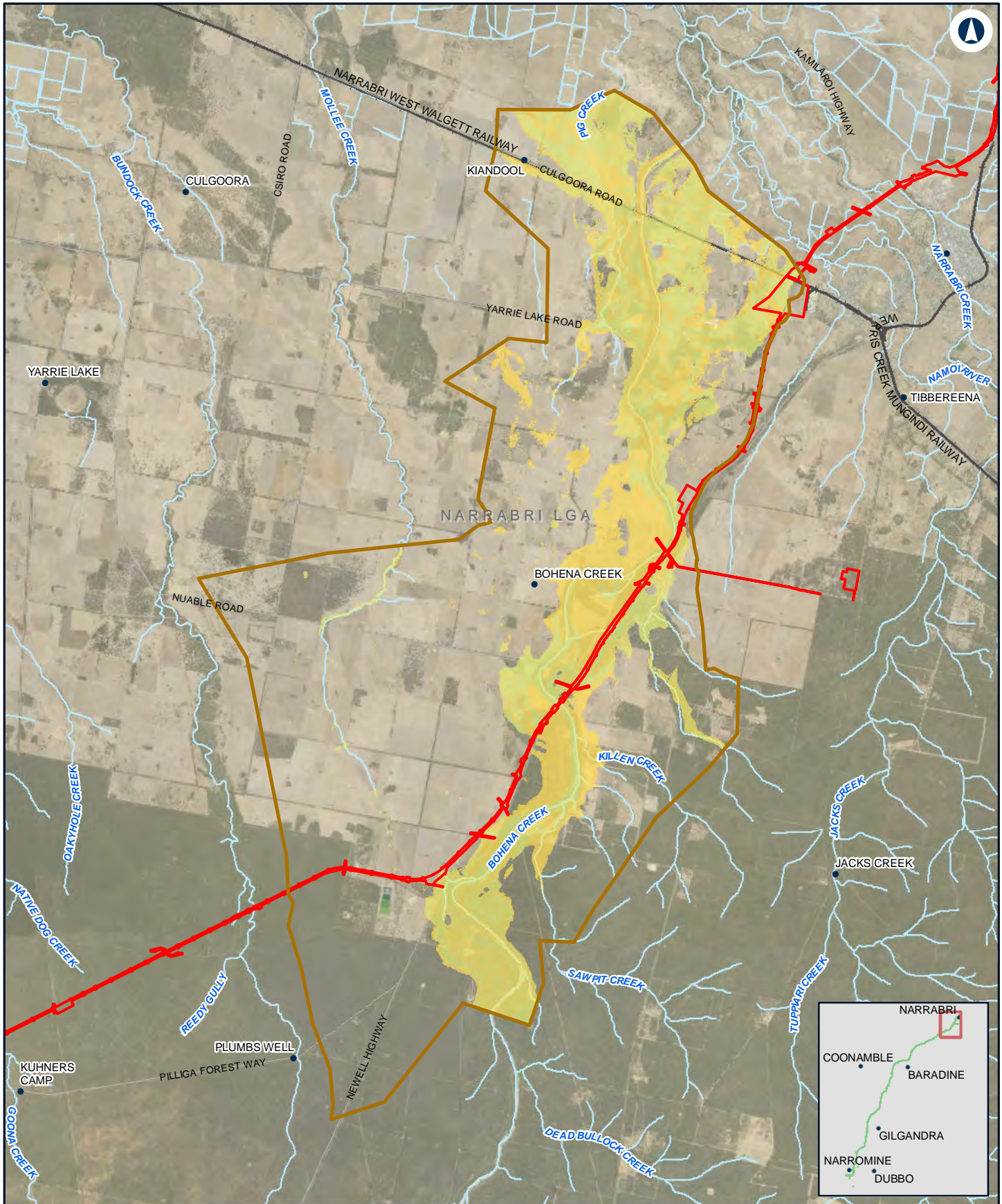
Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- > 24 hr increase
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease



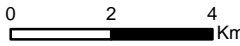
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NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - N2N1

Appendix G - Figure 3.6m



LEGEND

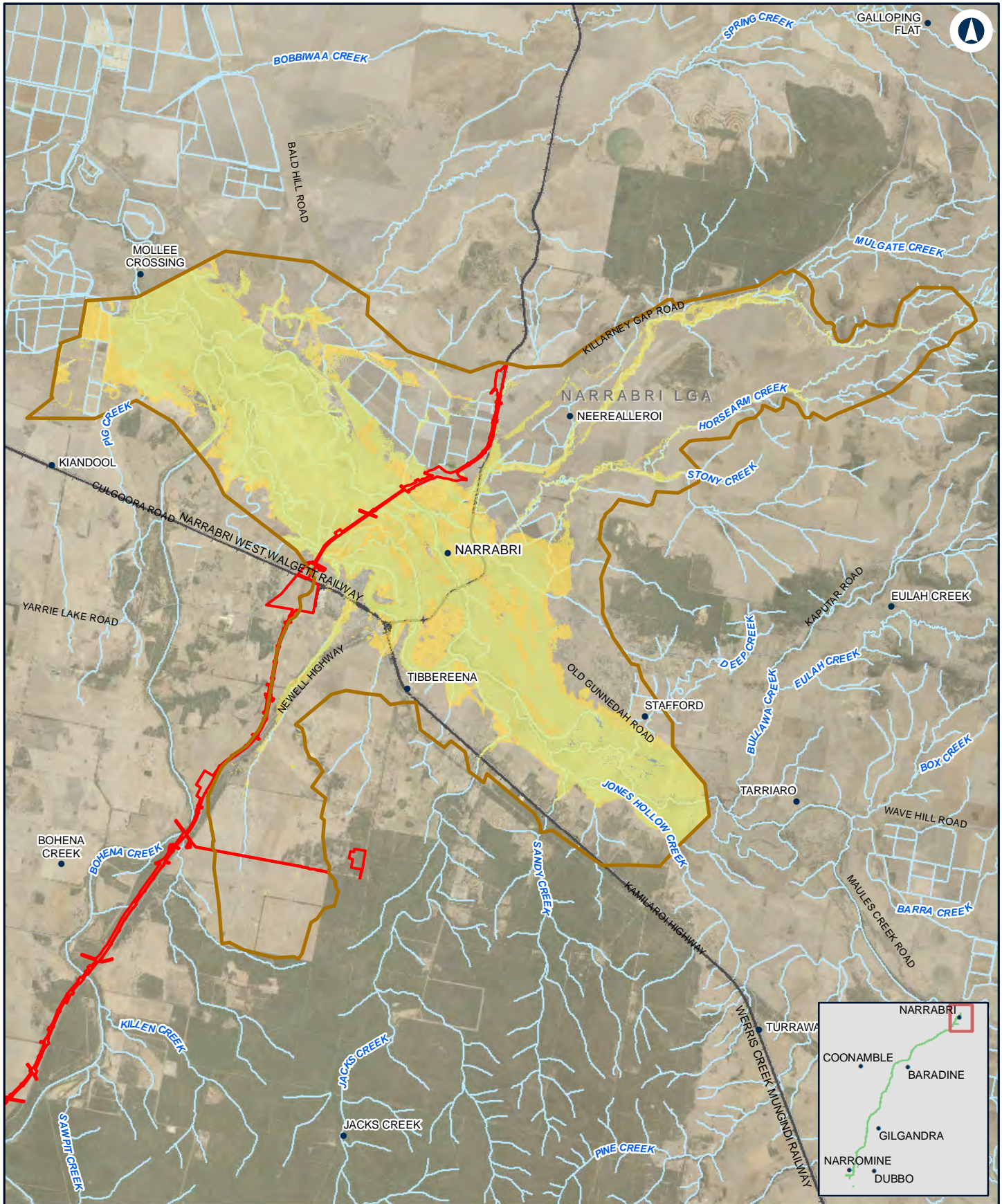
- The proposal site
- Model boundary
- Duration Change**
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- 12 hr - 24 hr decrease
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- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



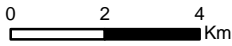
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NARROMINE TO NARRABRI

Flood impact 0.5% AEP - duration - Narrabri

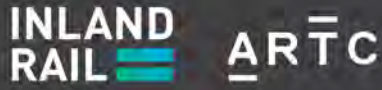
Appendix G - Figure 3.6n



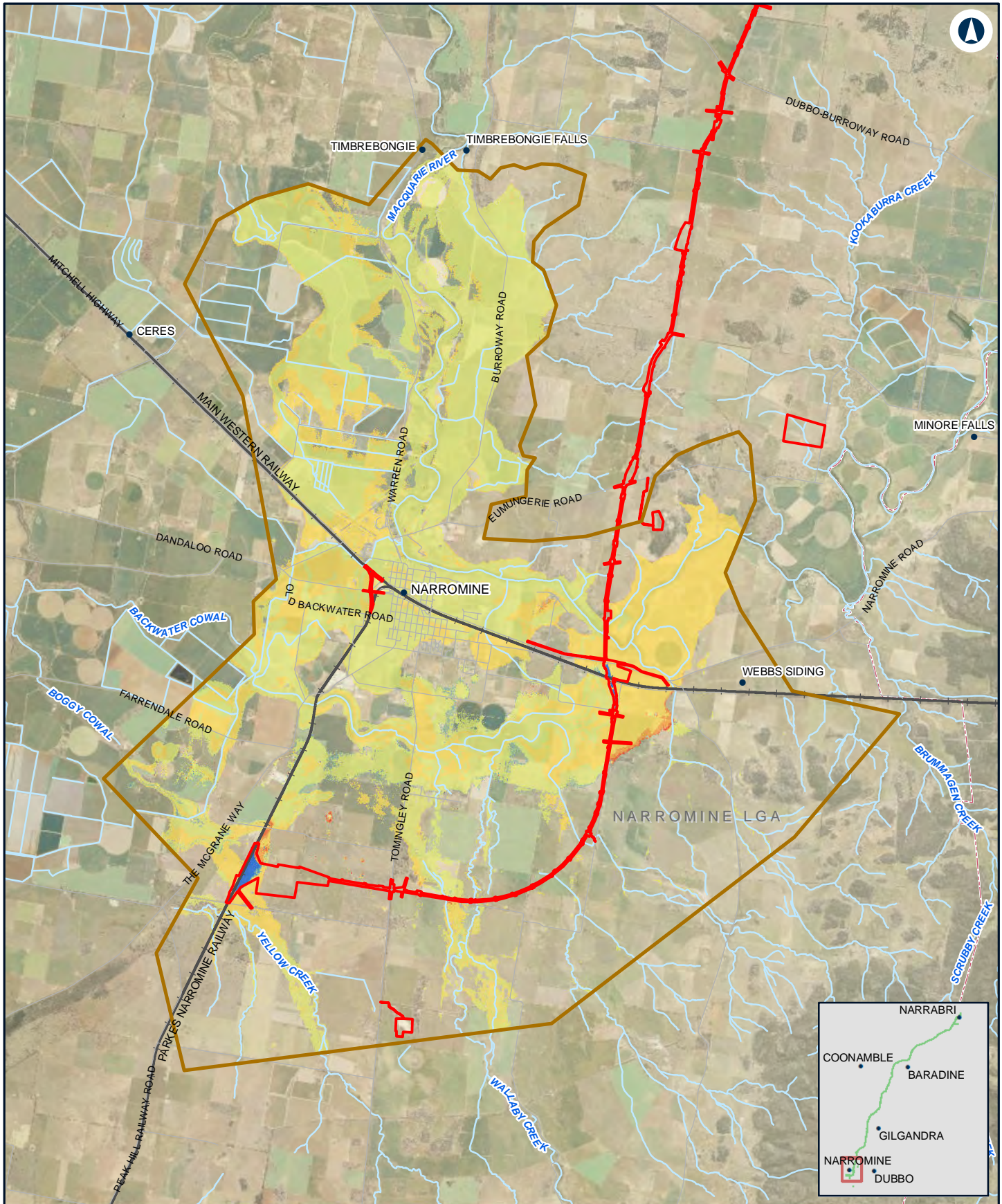
LEGEND

- The proposal site
- Model boundary
- 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

Coordinate System: GDA 1994 MGA Zone 55
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 Date: 28/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:160,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



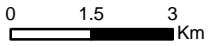
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NARROMINE TO NARRABRI

Change in duration - 0.2% AEP - NFM

Appendix G - Figure 3.7a



Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:140,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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 - 0.2% AEP - N2N14

Appendix G - Figure 3.7b

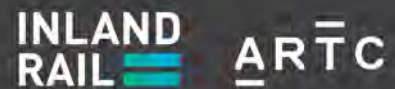


Coordinate System: GDA 1994 MGA Zone 55
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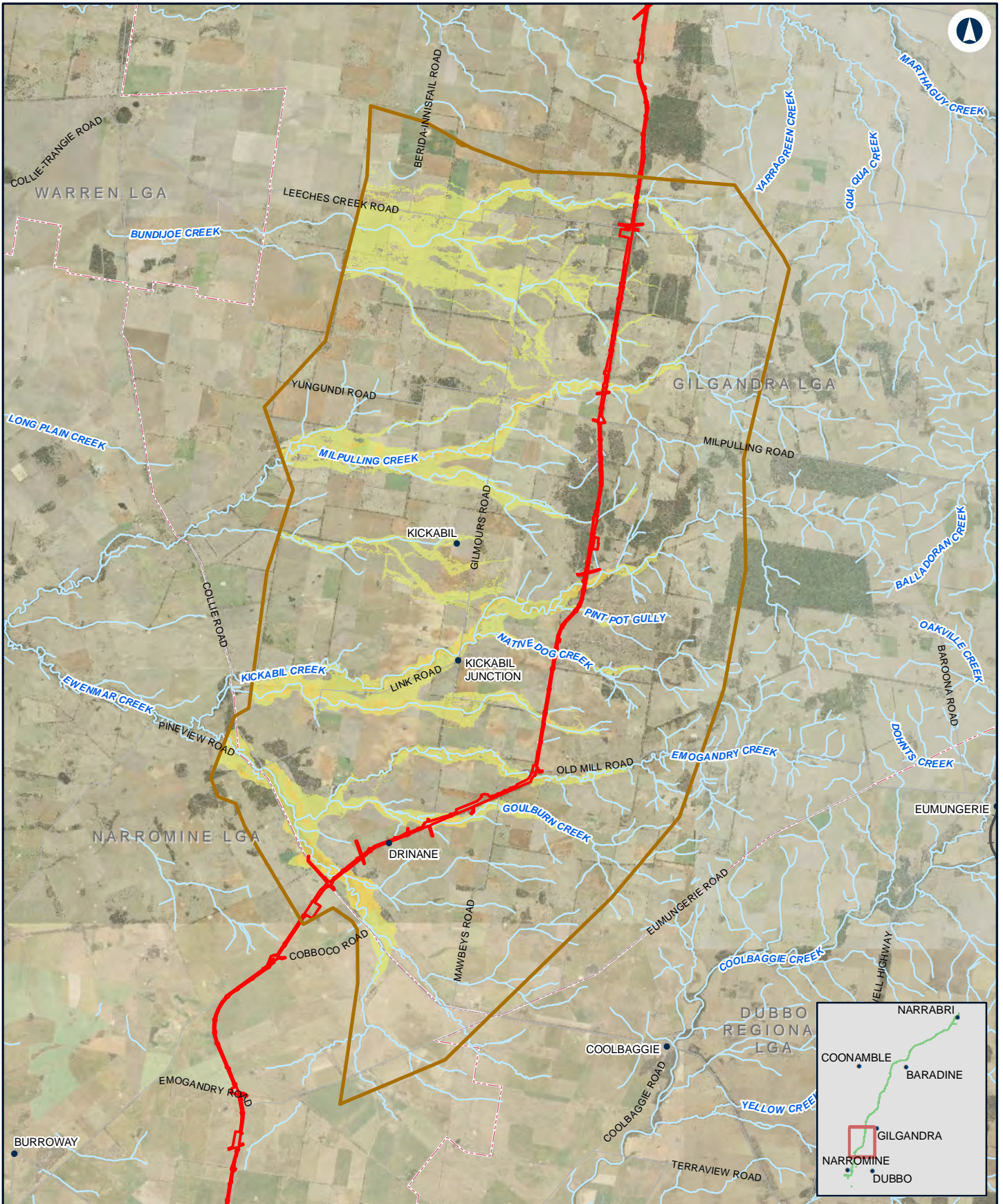
Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:150,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- Duration Change**
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- > 24 hr decrease
- 3 hr - 6 hr increase
- 12 hr - 24 hr decrease
- 6 hr - 12 hr increase
- 6 hr - 12 hr decrease
- > 24 hr increase
- 3 hr - 6 hr decrease



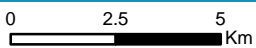
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NARROMINE TO NARRABRI

Change in duration - 0.2% AEP - N2N13

Appendix G - Figure 3.7c

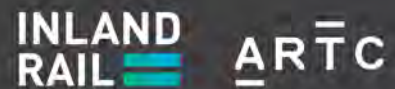


LEGEND

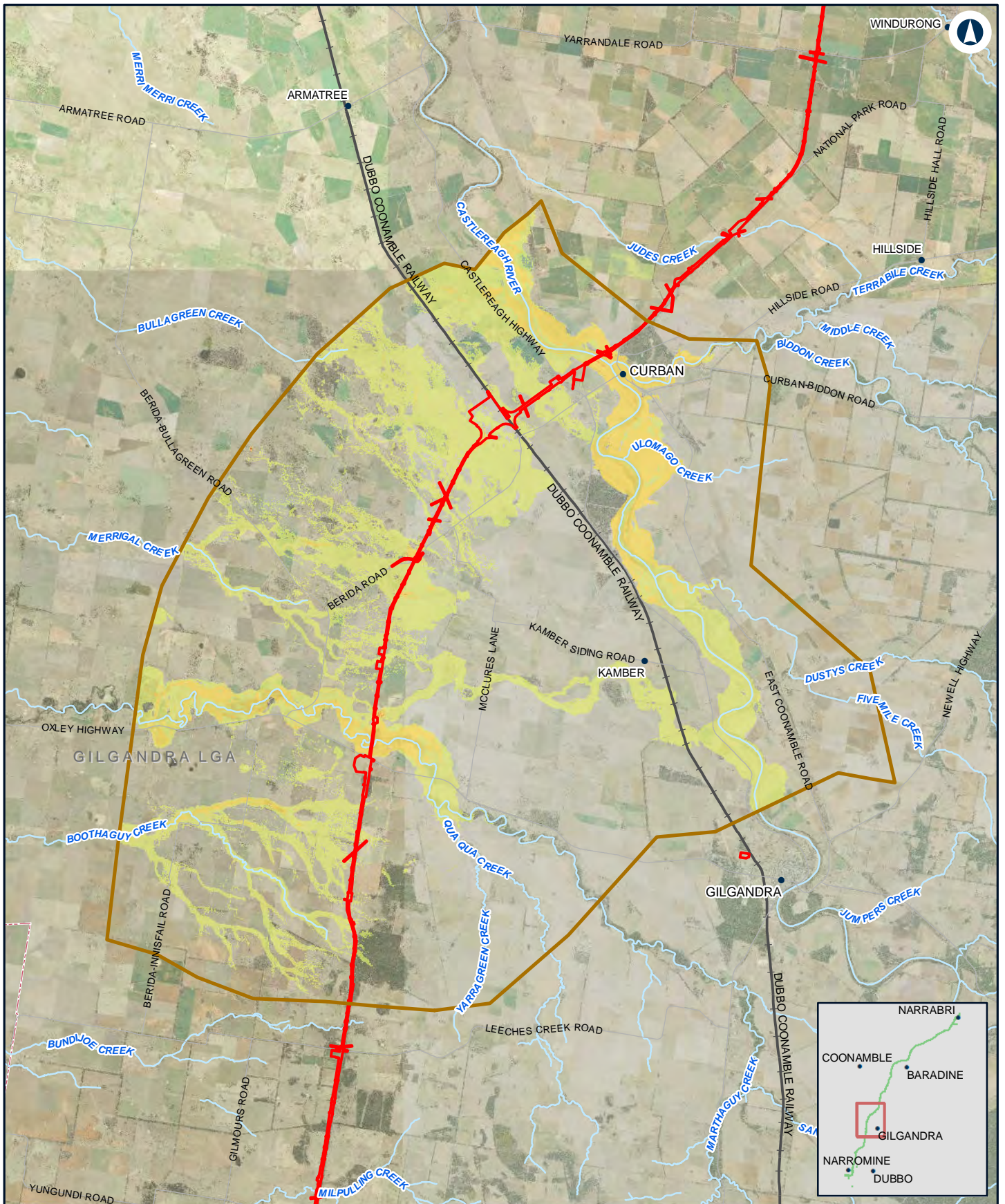
- The proposal site
- Model boundary
- Duration Change**
- > 24 hr decrease
- 12 hr - 24 hr decrease
- 6 hr - 12 hr decrease
- 3 hr - 6 hr decrease
- 0 hr - 3 hr decrease
- 0 hr - 3 hr increase
- 3 hr - 6 hr increase
- 6 hr - 12 hr increase
- 12 hr - 24 hr increase
- > 24 hr increase

Coordinate System: GDA 1994 MGA Zone 55
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:180,000
 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD



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NARROMINE TO NARRABRI

Change in duration - 0.2% AEP - N2N11N12

Appendix G - Figure 3.7d



Coordinate System: GDA 1994 MGA Zone 55

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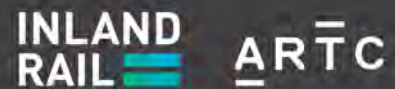
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:200,000

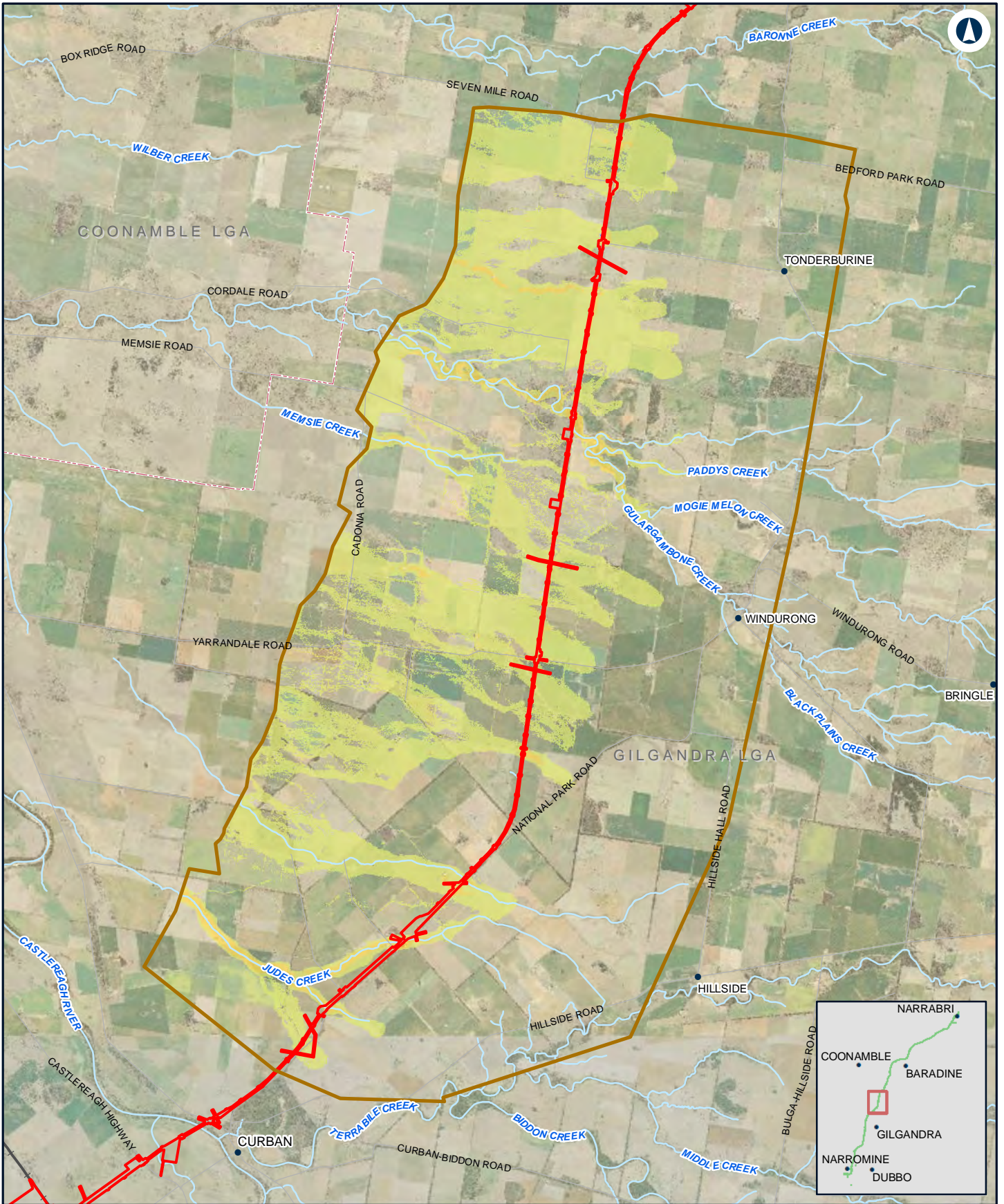
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

LEGEND

- The proposal site
- Model boundary
- 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



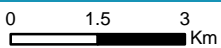
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NARROMINE TO NARRABRI

Change in duration - 0.2% AEP - N2N10

Appendix G - Figure 3.7e



Coordinate System: GDA 1994 MGA Zone 55

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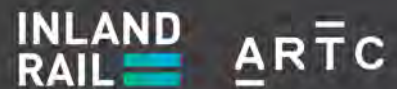
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Date: 27/10/2020 Paper: A4
 Author: JacobsGHD Scale: 1:130,000

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

LEGEND

- The proposal site
- Model boundary
- 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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