TECHNICAL REPORT





Flooding and hydrology assessment

PART 12 OF 12 Appendix H

NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT



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

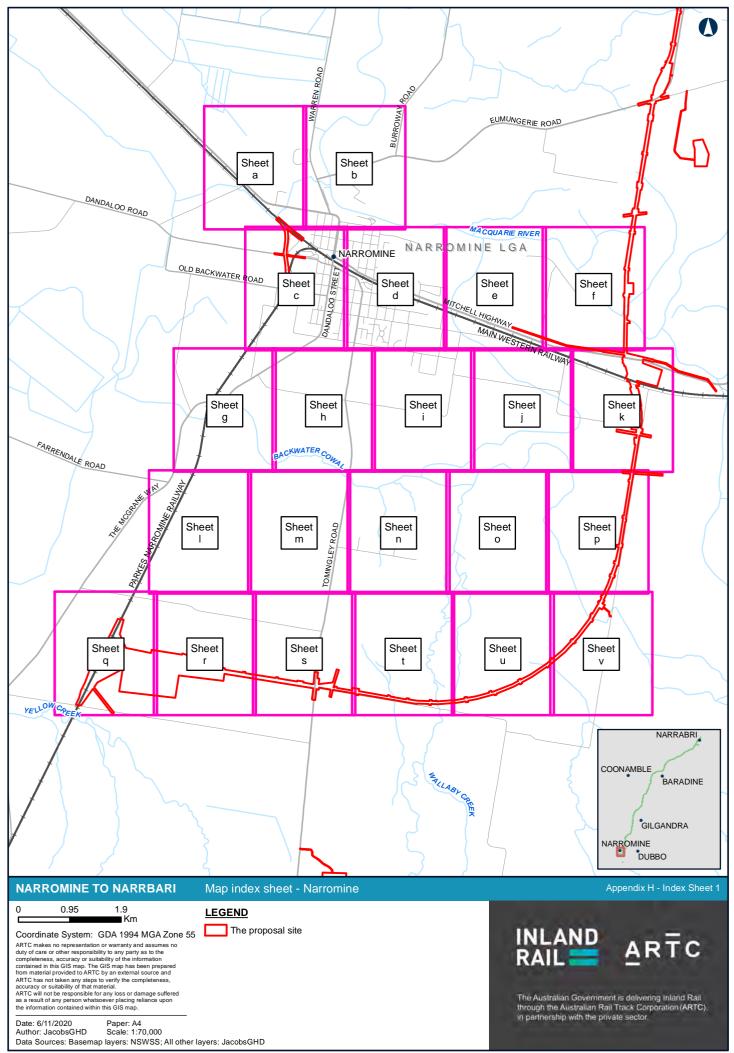
TECHNICAL REPORT



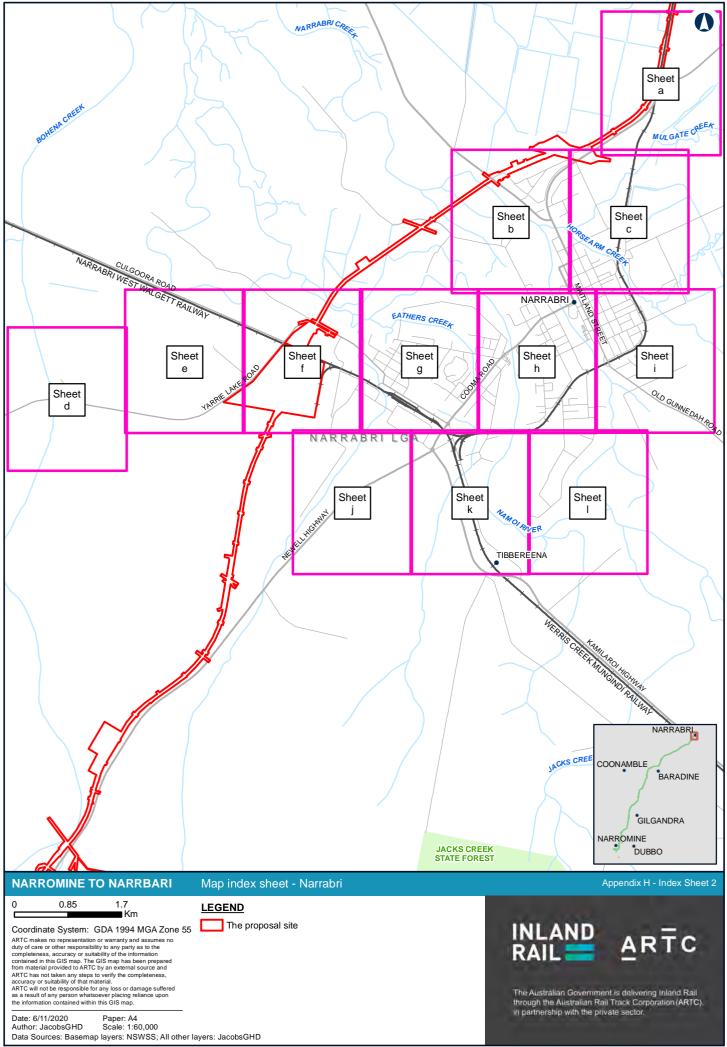
Flooding and hydrology assessment

Appendix H Detailed operational flood mapping for Narromine and Narrabri

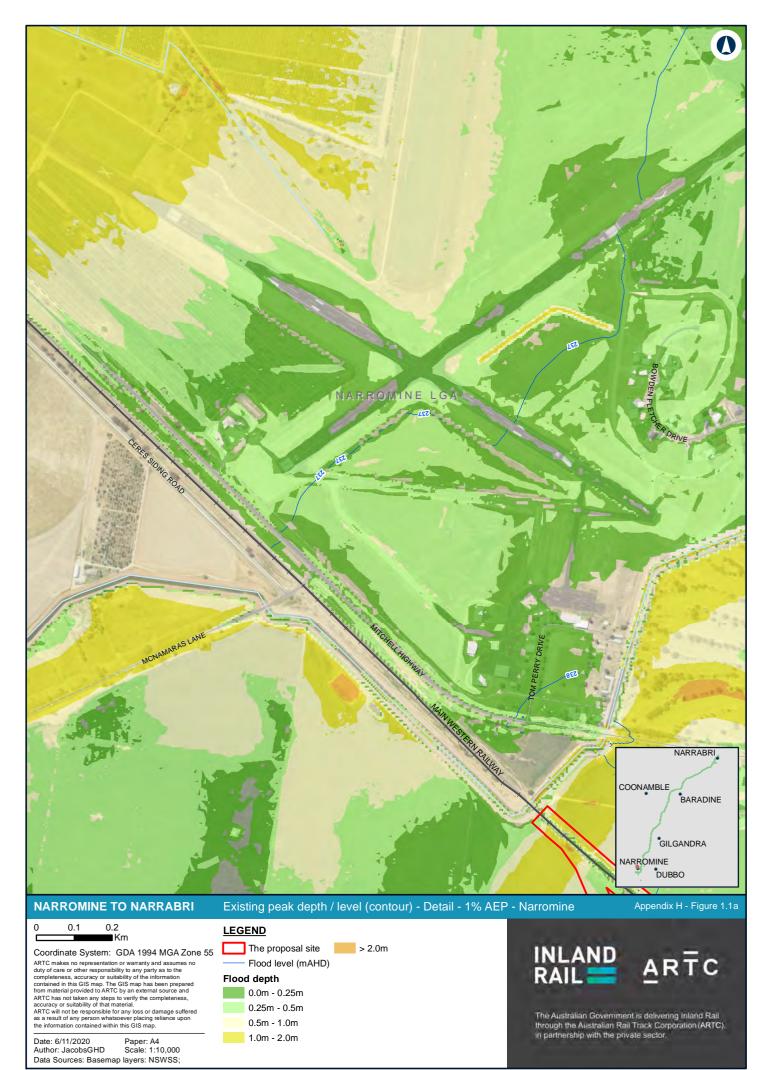
NARROMINE TO NARRABRI ENVIRONMENTAL IMPACT STATEMENT



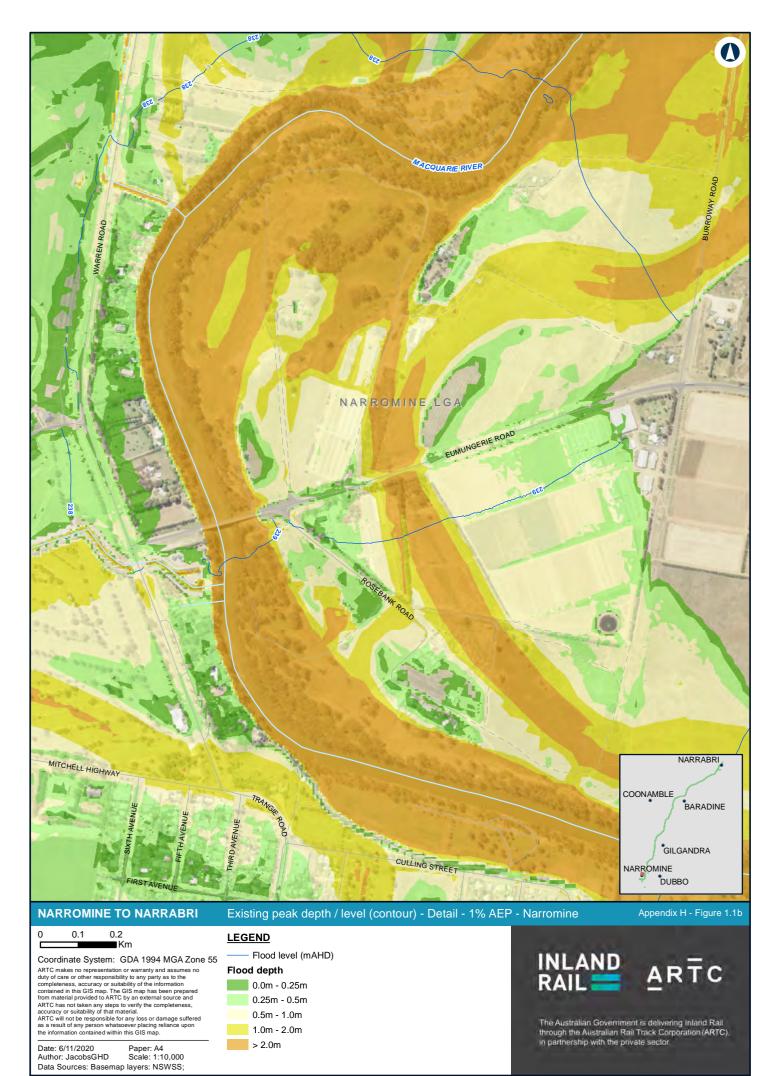
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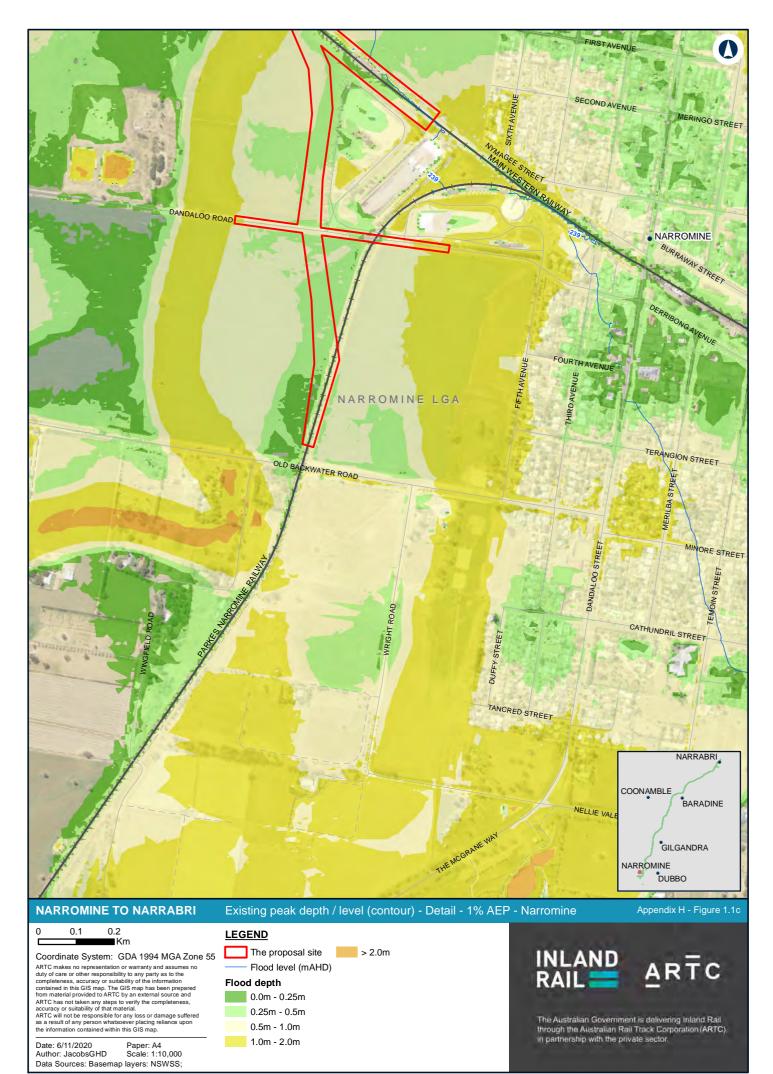


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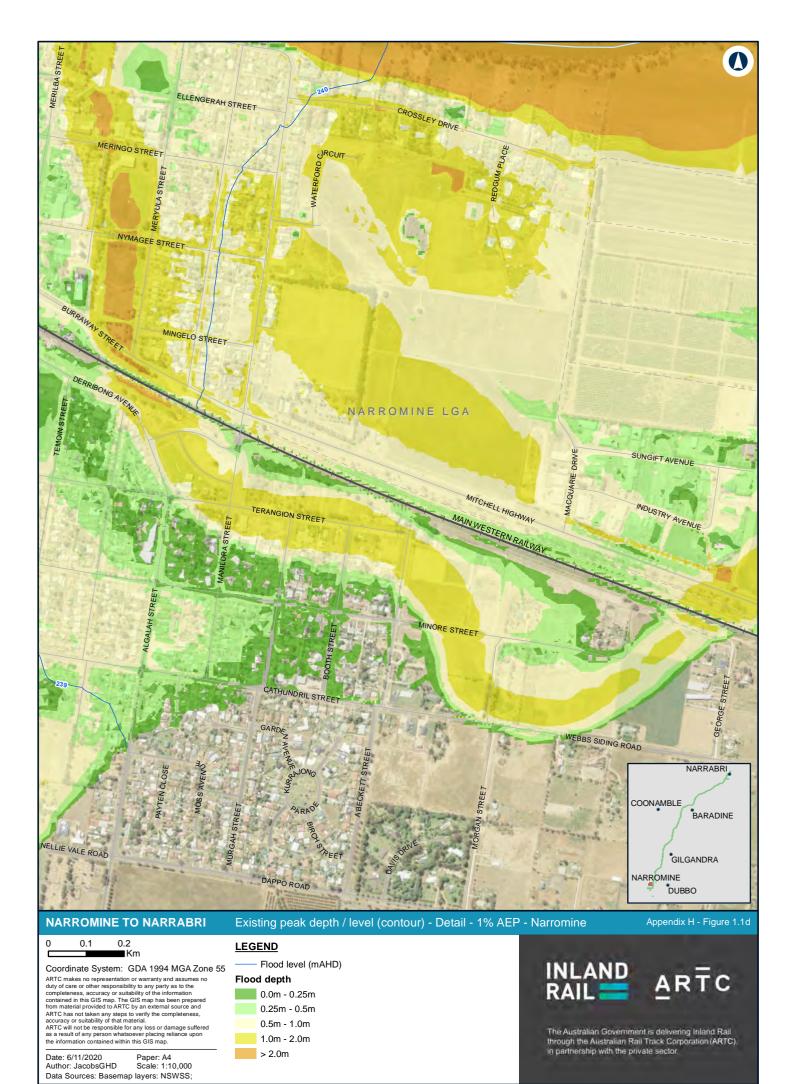


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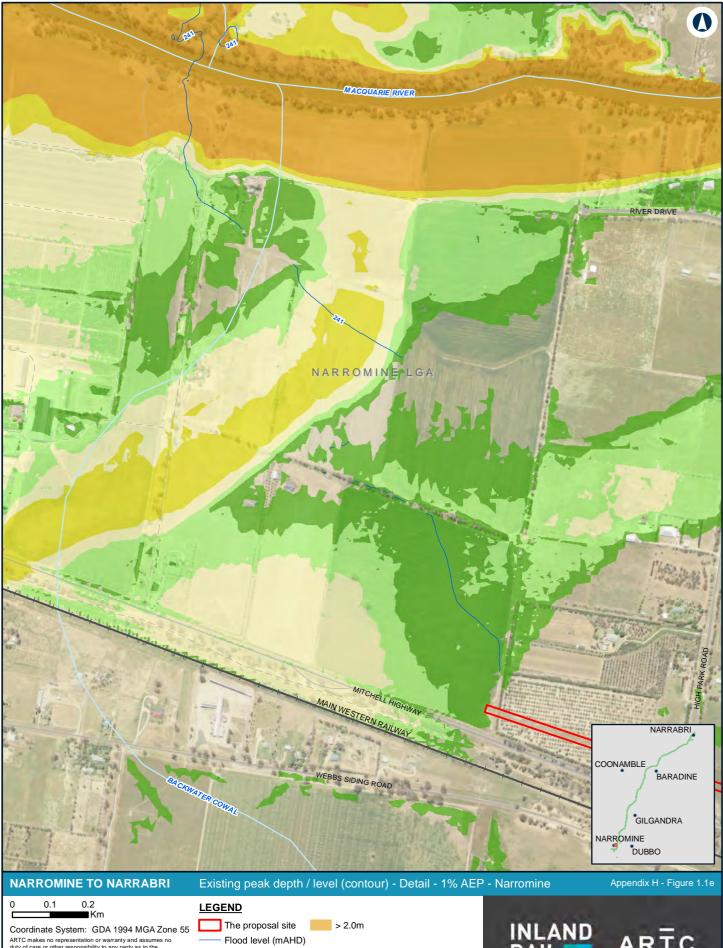




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Data Sources: Basemap layers: NSWSS;



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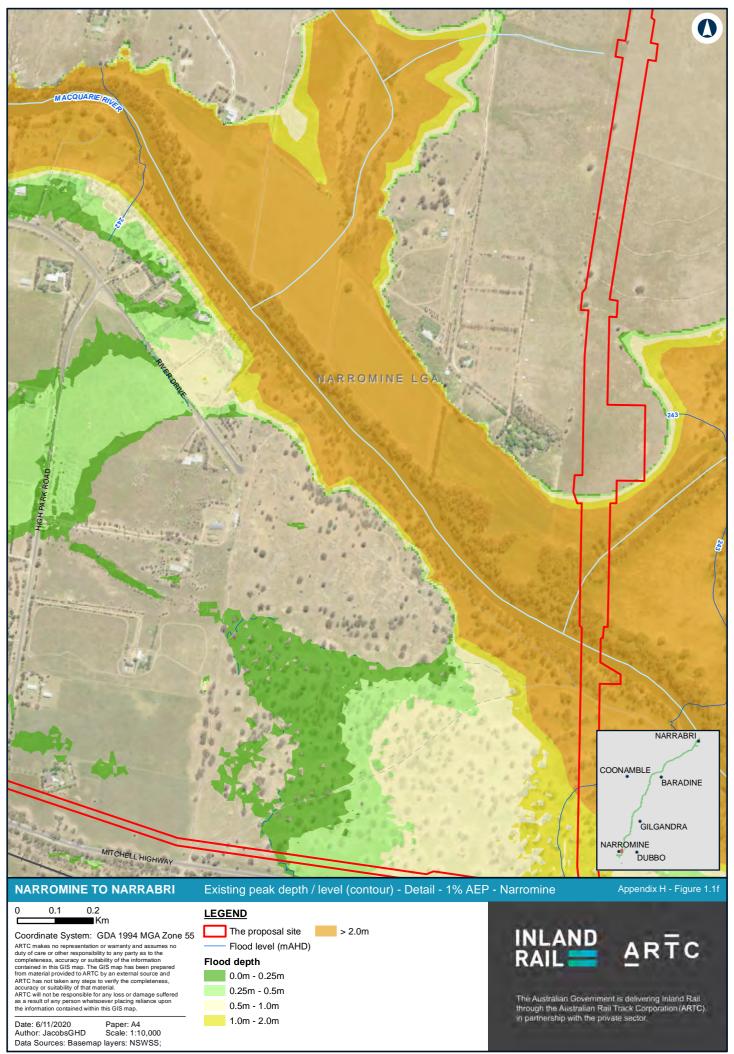
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Flood depth

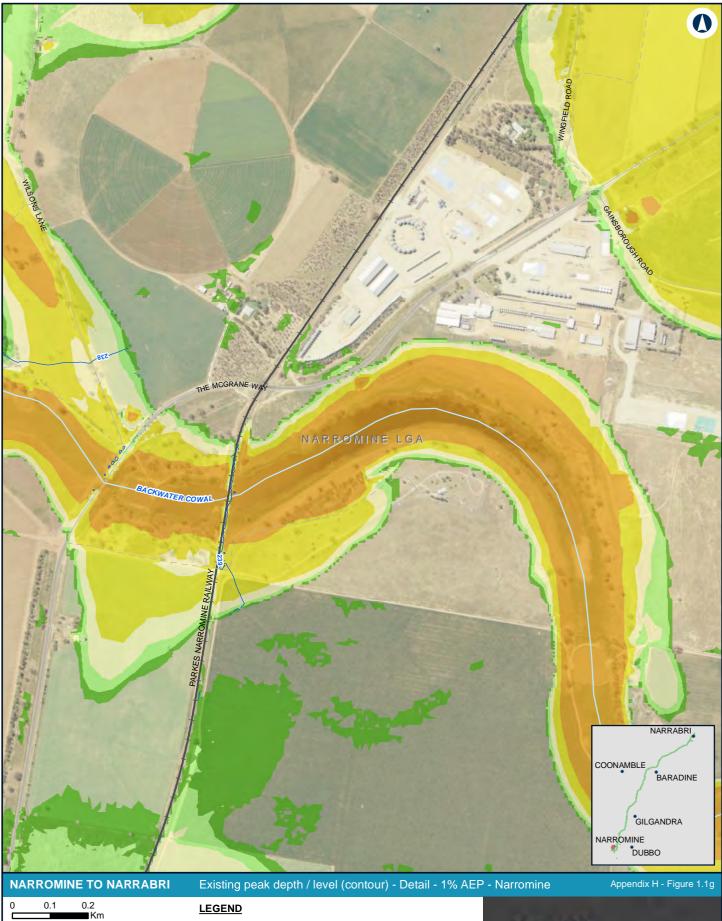
0.0m - 0.25m 0.25m - 0.5m

0.5m - 1.0m

1.0m - 2.0m



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Data Sources: Basemap layers: NSWSS;



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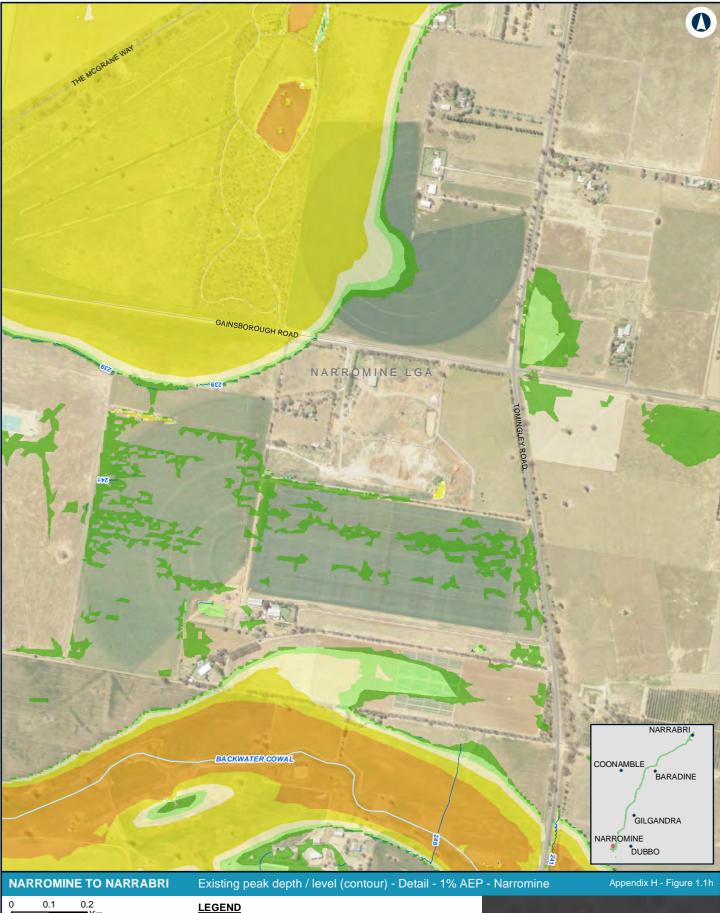
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Flood level (mAHD)

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

1.0m - 2.0m > 2.0m

Flood depth



RAIL ARTC

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0 0.1 0.2 С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000 Data Sources: Basemap layers: NSWSS;

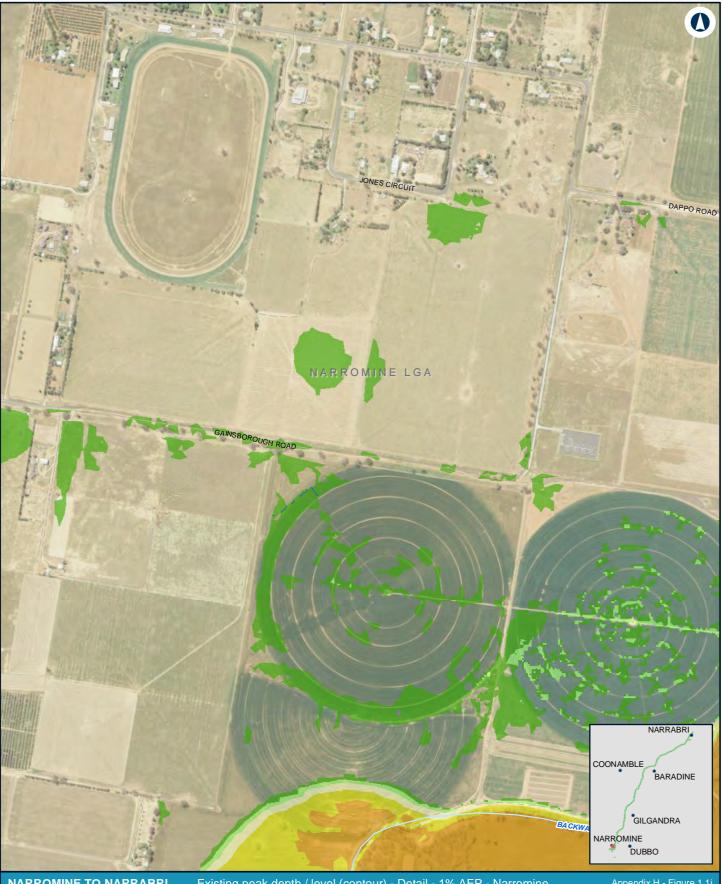
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Flood level (mAHD)

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

1.0m - 2.0m > 2.0m

Flood depth



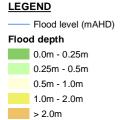
NARROMINE TO NARRABRI

0 0.1 0.2 С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000 Data Sources: Basemap layers: NSWSS;

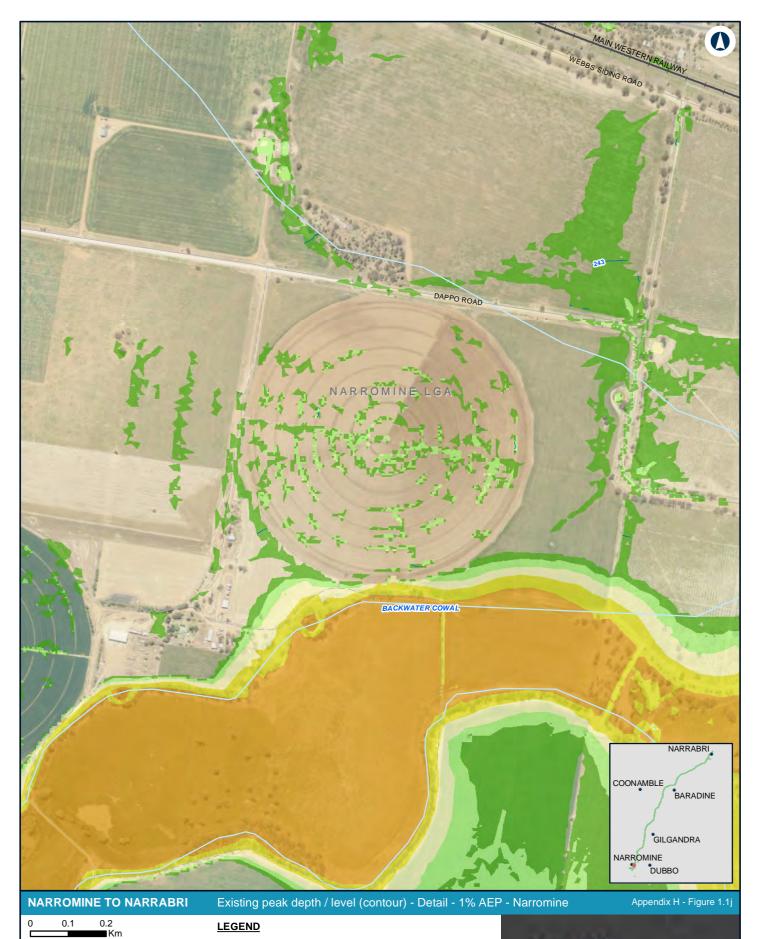
Existing peak depth / level (contour) - Detail - 1% AEP - Narromine

Appendix H - Figure 1.1i





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Data Sources: Basemap layers: NSWSS;

Paper: A4 Scale: 1:10,000

Date: 6/11/2020 Author: JacobsGHD

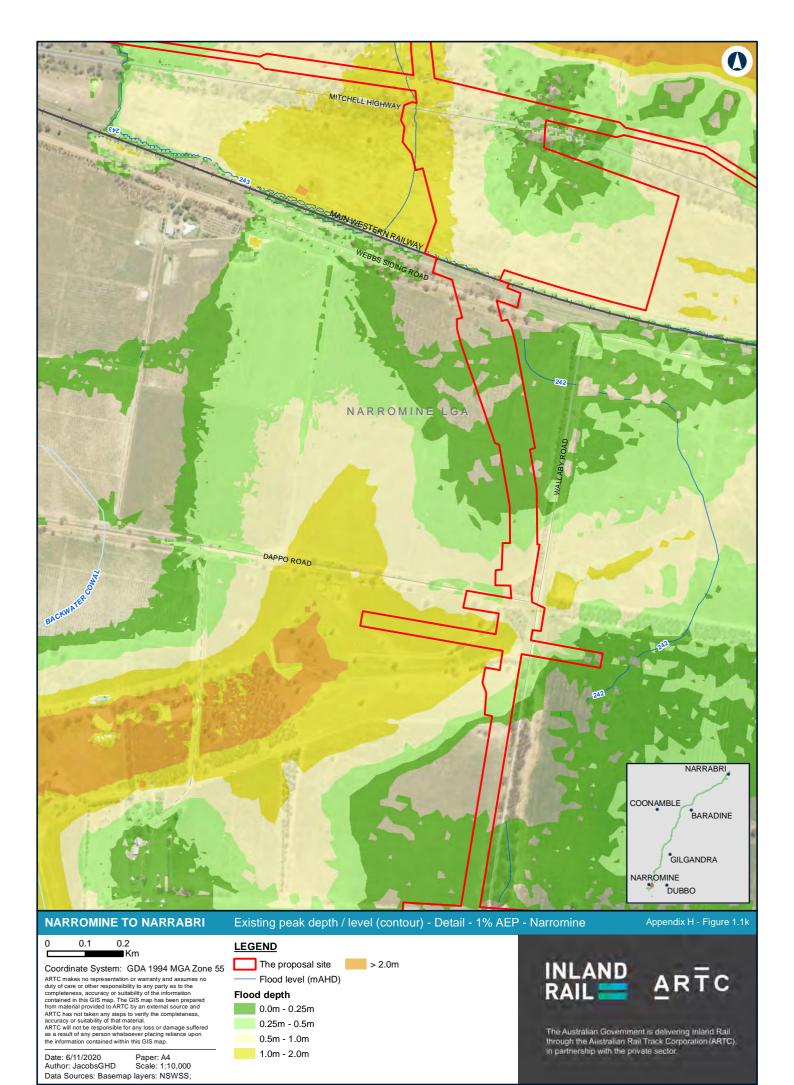
MGA Zone 55	Flood level (mAHD)
id assumes no	Flood depth

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

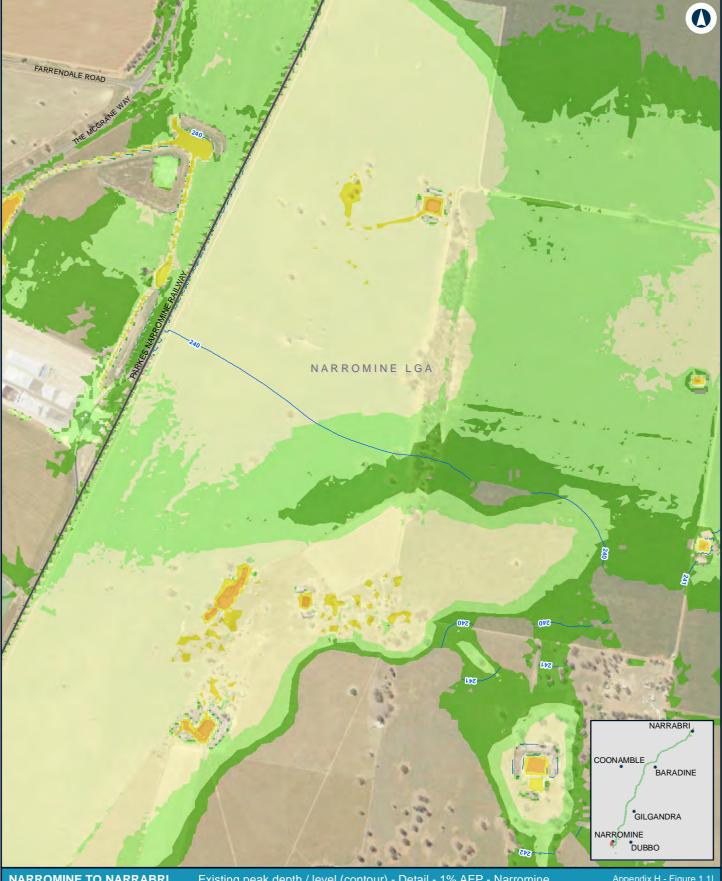
RAIL ARTC

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NARROMINE TO NARRABRI

0 0.1 0.2 С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000 Data Sources: Basemap layers: NSWSS;

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

Appendix H - Figure 1.11

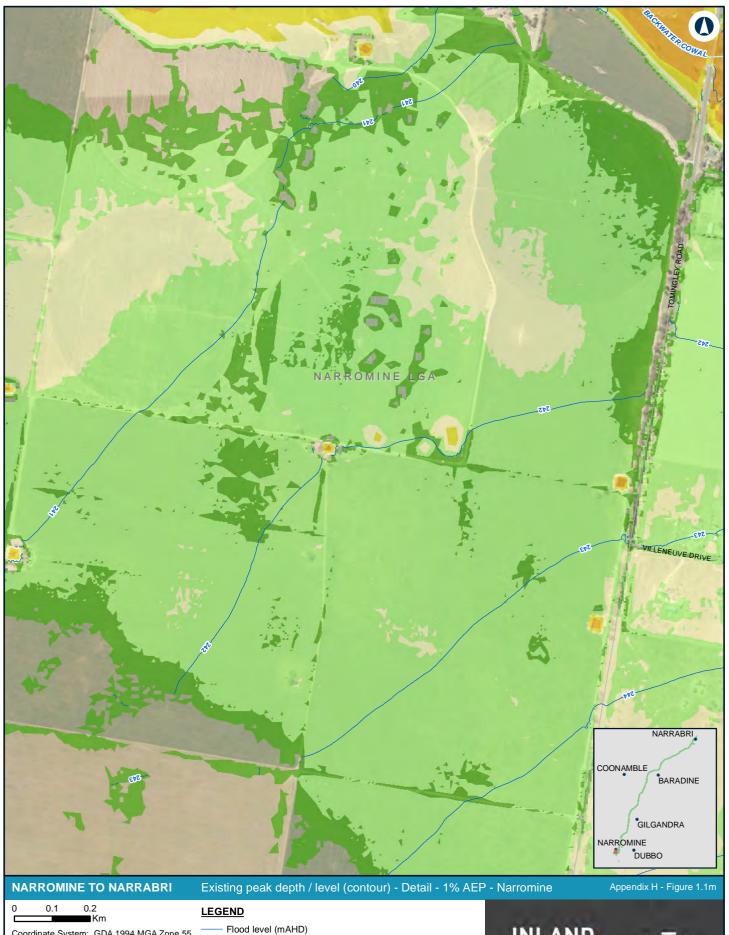
LEGEND		
	Flood level (mAHD)	
Flood depth		
	0.0m - 0.25m	
	0.25m - 0.5m	
	0.5m - 1.0m	
	1.0m - 2.0m	

> 2.0m



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

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 Coordinate System: GDA 1994 MGA Zone 55

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 Paper: A4

 Author: JacobsGHD
 Scale: 1:10,000

 Data Sources: Basemap layers: NSWSS;



RAIL ARTC

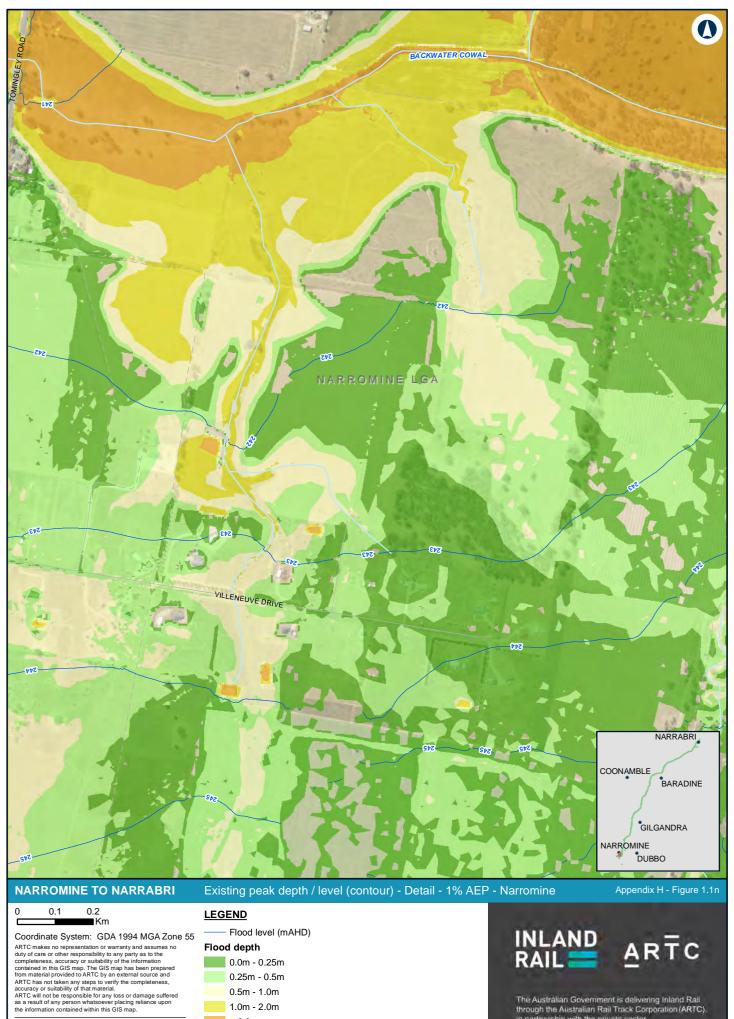
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

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Flood depth

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

1.0m - 2.0m > 2.0m



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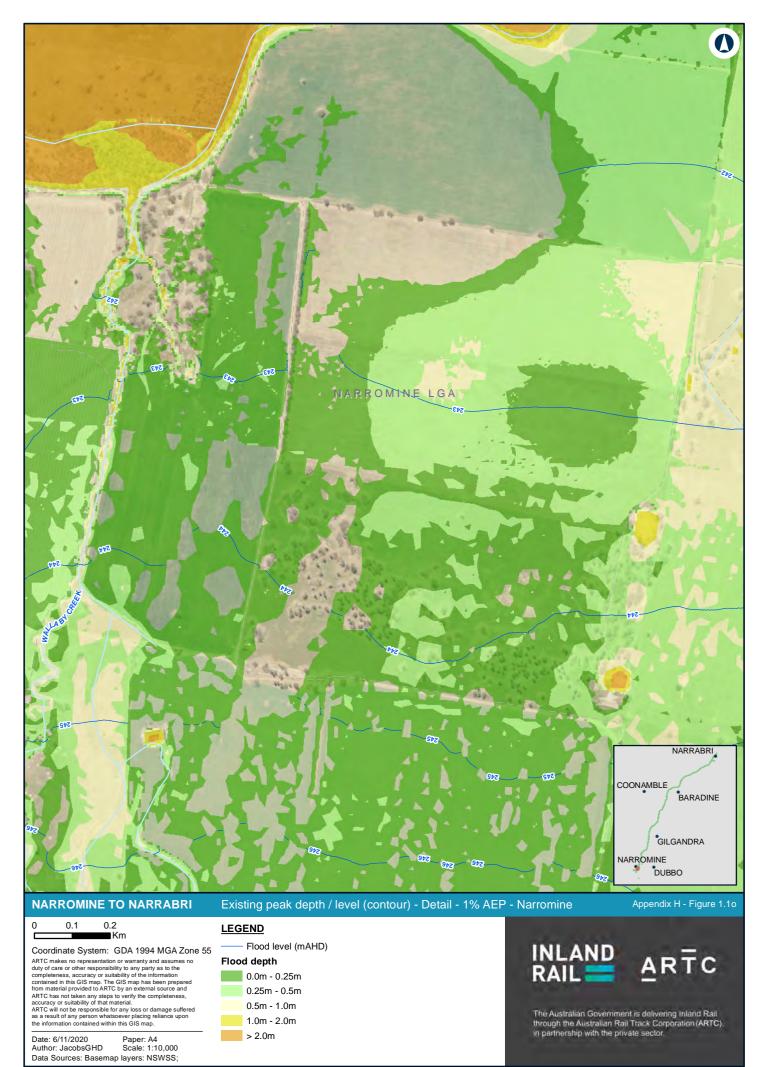
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1.0m - 2.0m > 2.0m

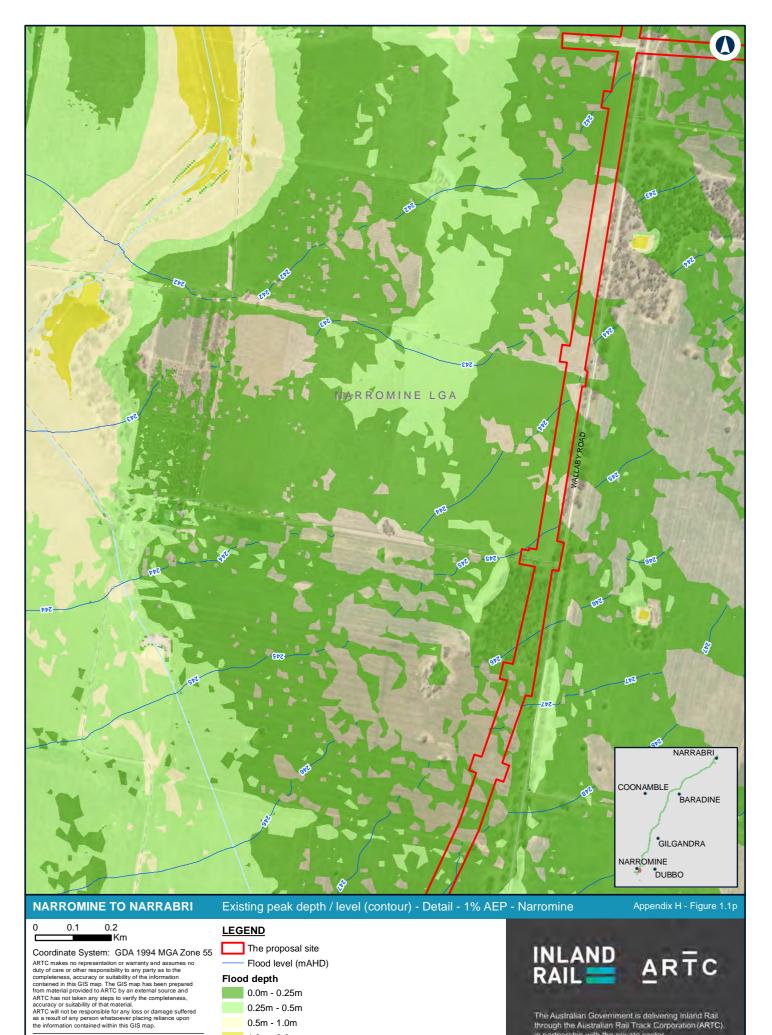
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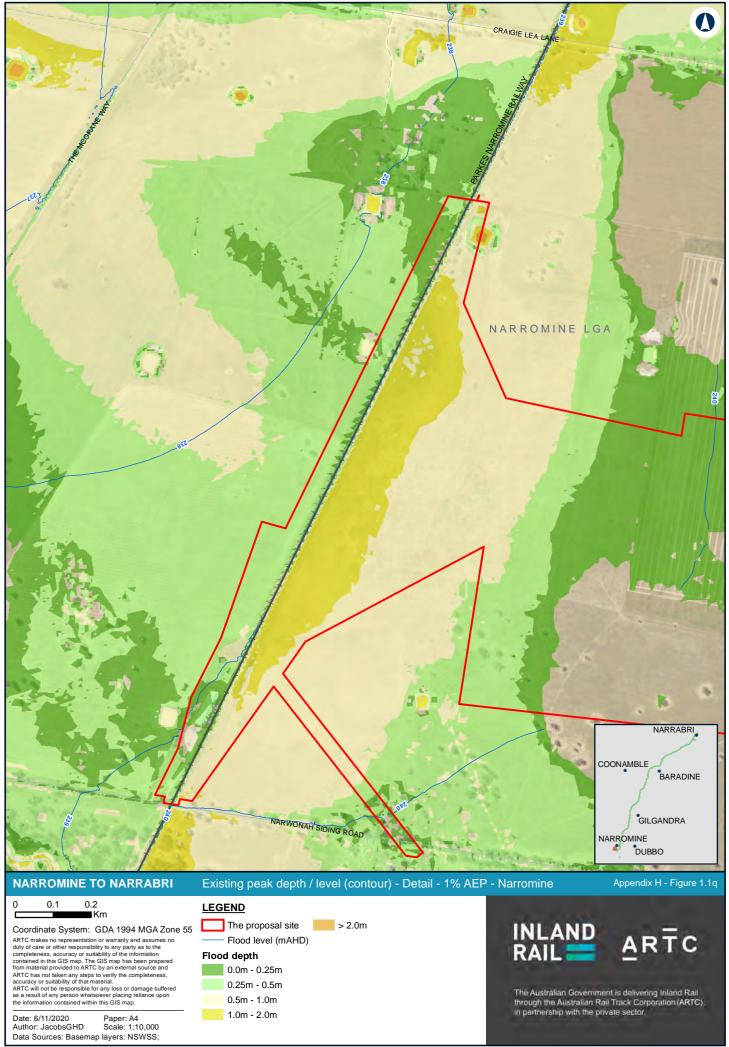
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0.5m - 1.0m 1.0m - 2.0m

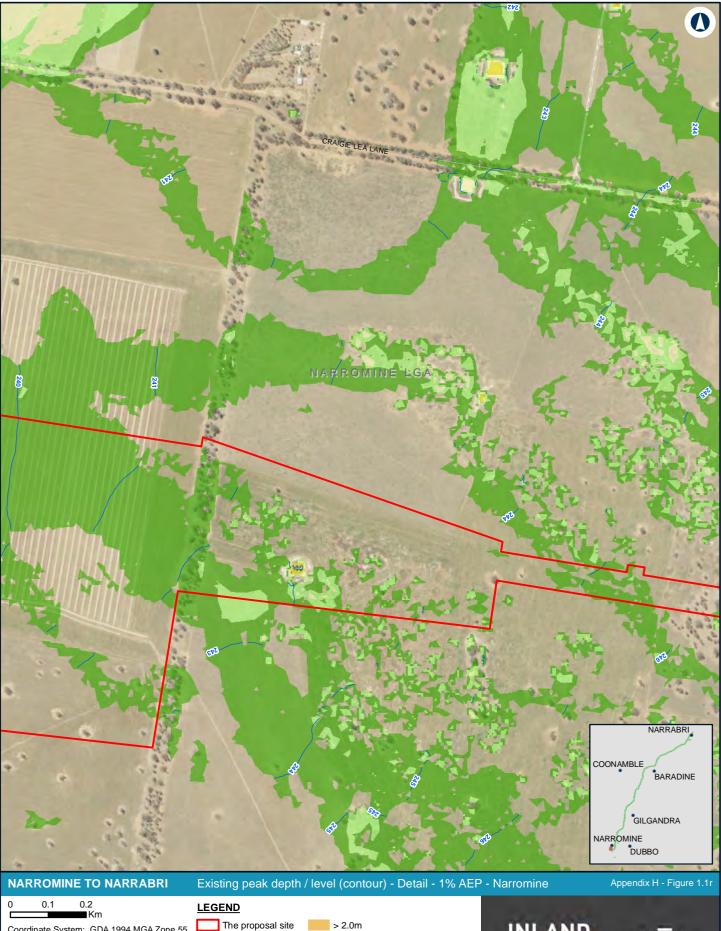
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 Coordinate System: GDA 1994 MGA Zone 55

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 Paper: A4

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 Scale: 1:10,000

 Data Sources: Basemap layers: NSWSS;



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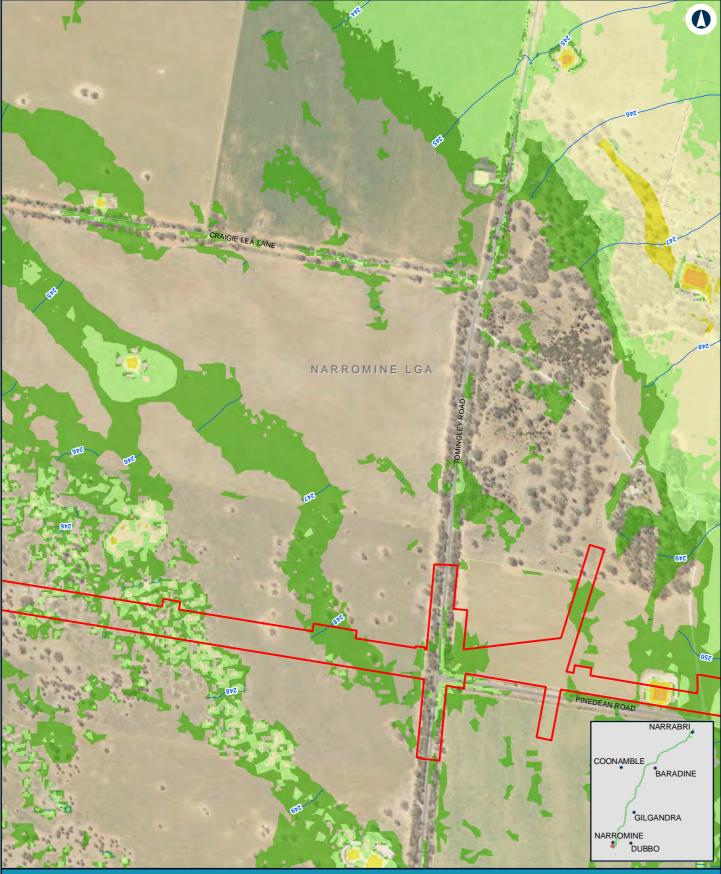
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Flood level (mAHD)

0.0m - 0.25m 0.25m - 0.5m

0.5m - 1.0m 1.0m - 2.0m

Flood depth



NARROMINE TO NARRABRI

0 0.1 0.2 Km

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

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

Appendix H - Figure 1.1s





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LEGEND

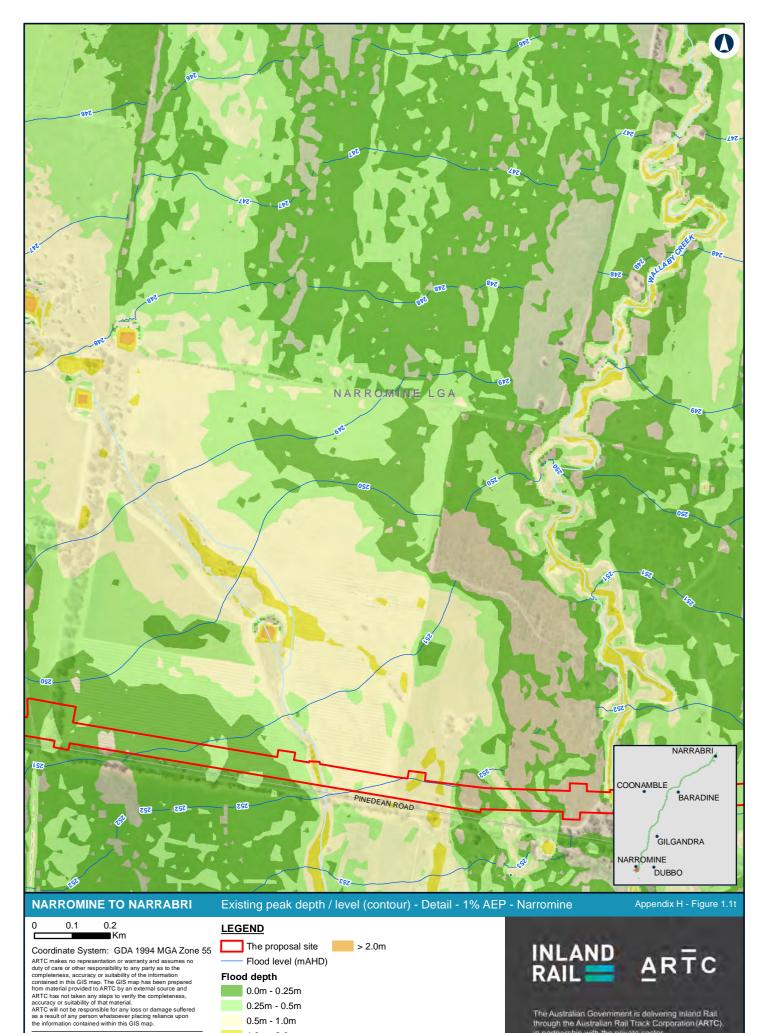
Flood depth

The proposal site

0.0m - 0.25m 0.25m - 0.5m

0.5m - 1.0m 1.0m - 2.0m

Flood level (mAHD)



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

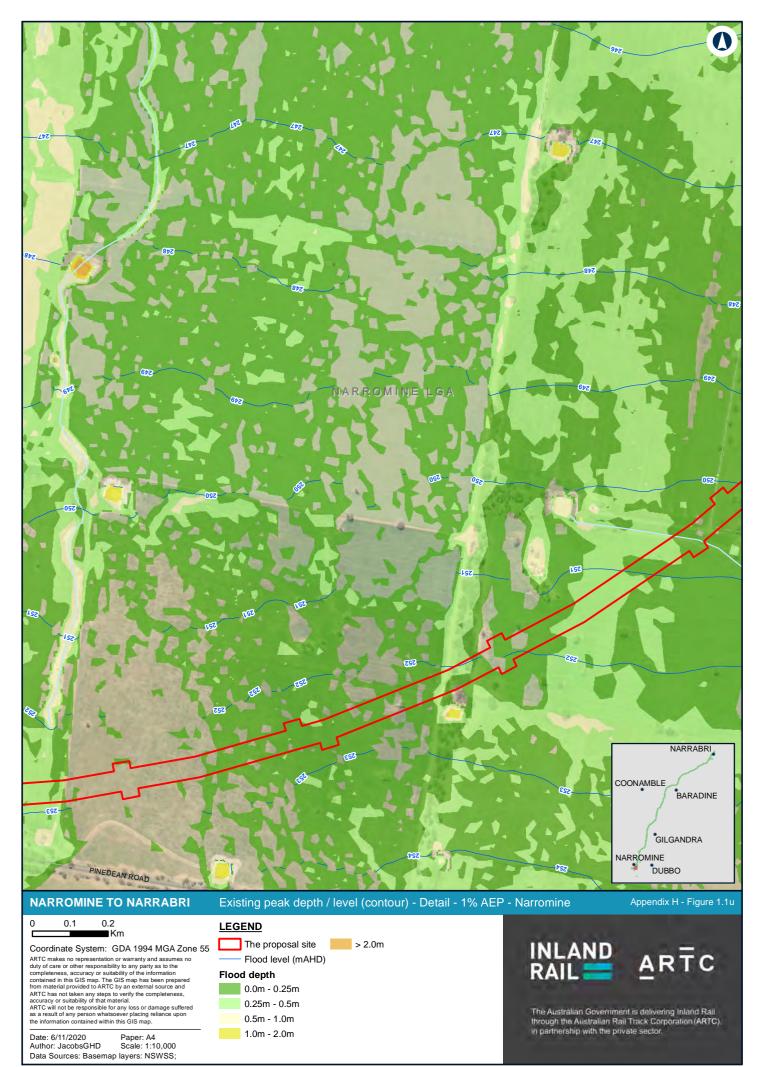
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0.5m - 1.0m 1.0m - 2.0m

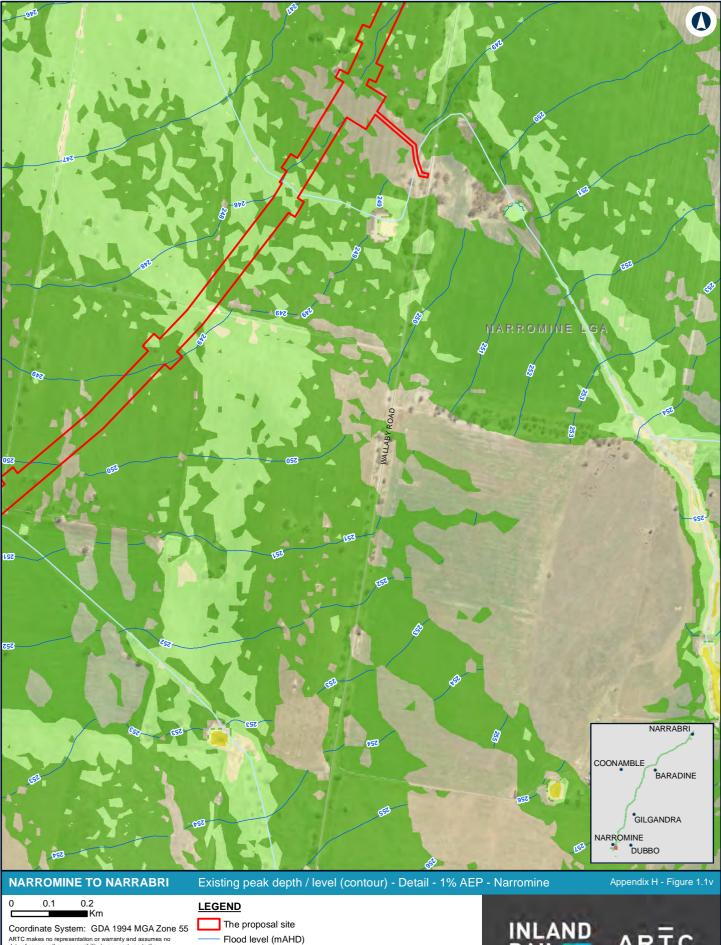
Date: 6/11/2020 Author: JacobsGHD

Data Sources: Basemap layers: NSWSS;

Paper: A4 Scale: 1:10,000



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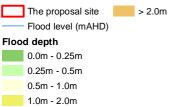
Flood depth

0.0m - 0.25m 0.25m - 0.5m

0.5m - 1.0m 1.0m - 2.0m



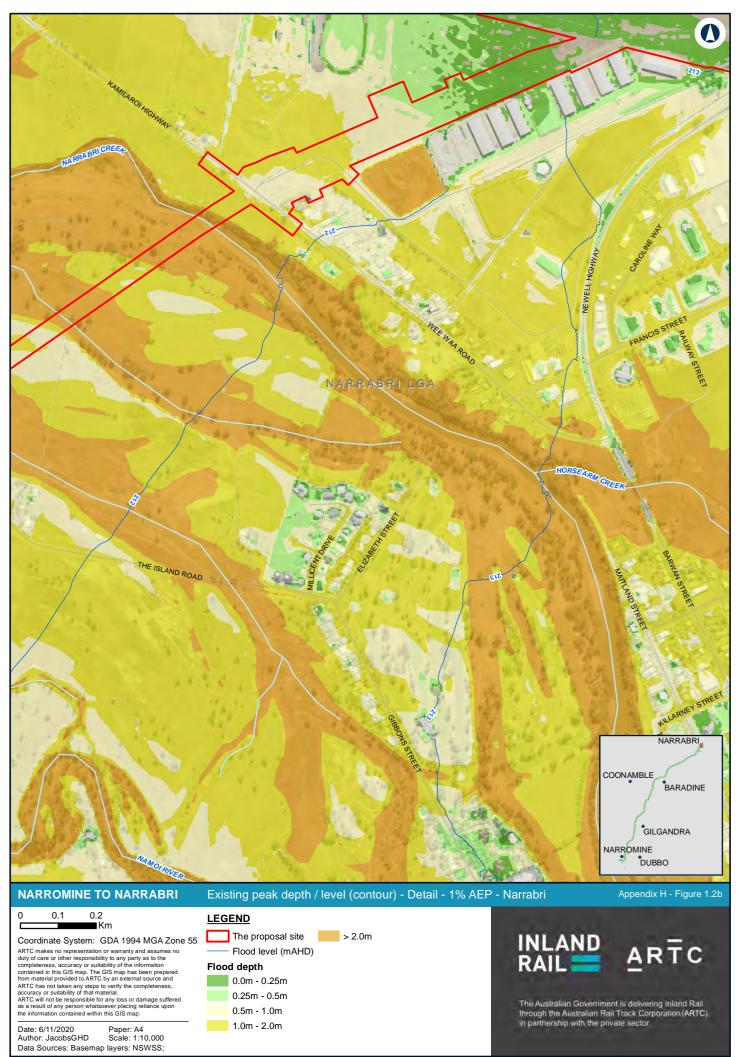




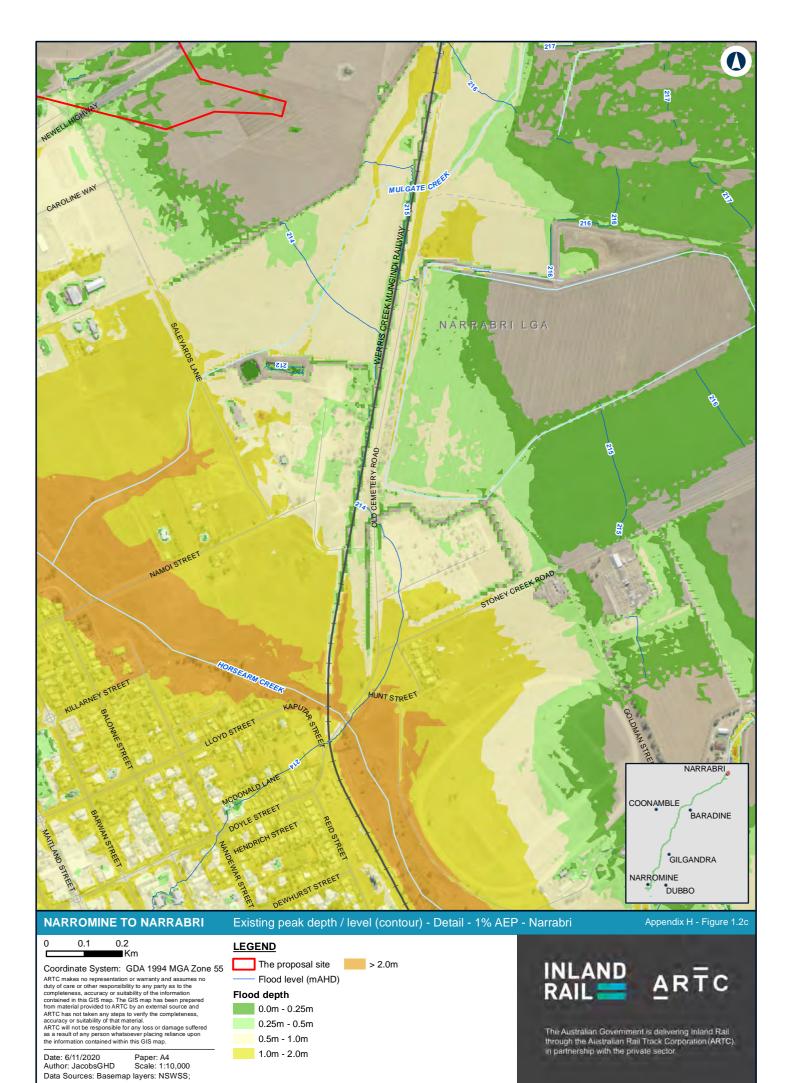


The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

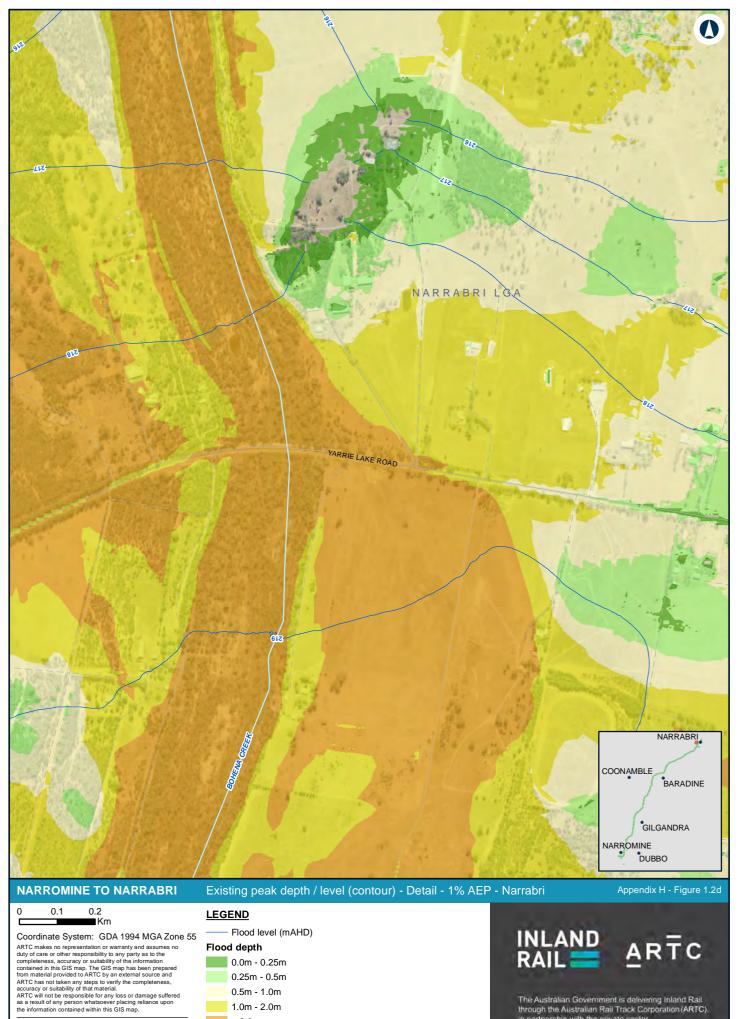
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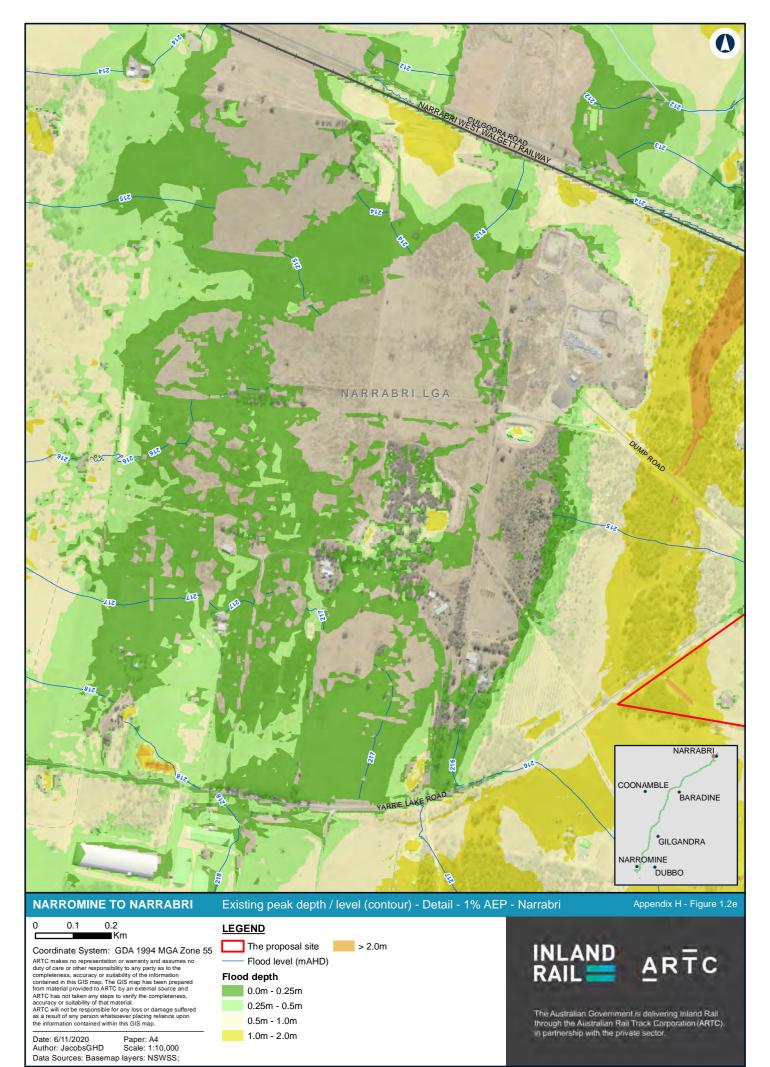
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1.0m - 2.0m > 2.0m

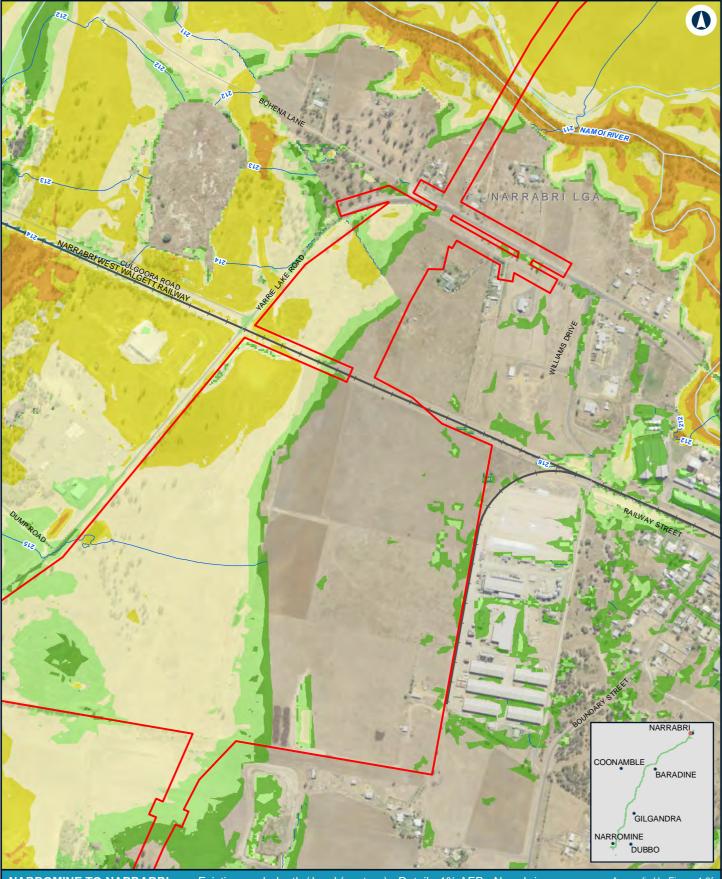
Date: 6/11/2020 Author: JacobsGHD

Data Sources: Basemap layers: NSWSS;

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NARROMINE TO NARRABRI 0.2

0.1

0

LEGEND

Flood depth

С Km Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;

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

> 2.0m

Appendix H - Figure 1.2f



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

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The proposal site

0.0m - 0.25m 0.25m - 0.5m

0.5m - 1.0m 1.0m - 2.0m

Flood level (mAHD)



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 from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of the material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Paper: A4 Author: JacobsGHD Paper: A4 Scale: 1:10,000 Scale: 1:10,000

Data Sources: Basemap layers: NSWSS;



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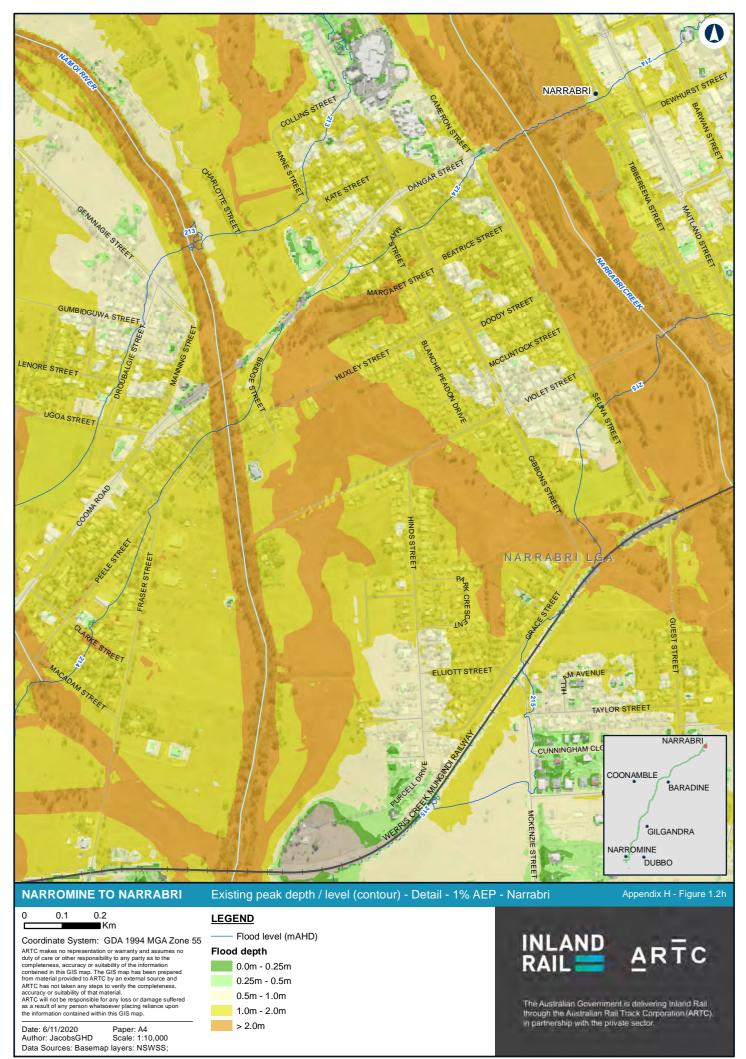
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Flood level (mAHD)

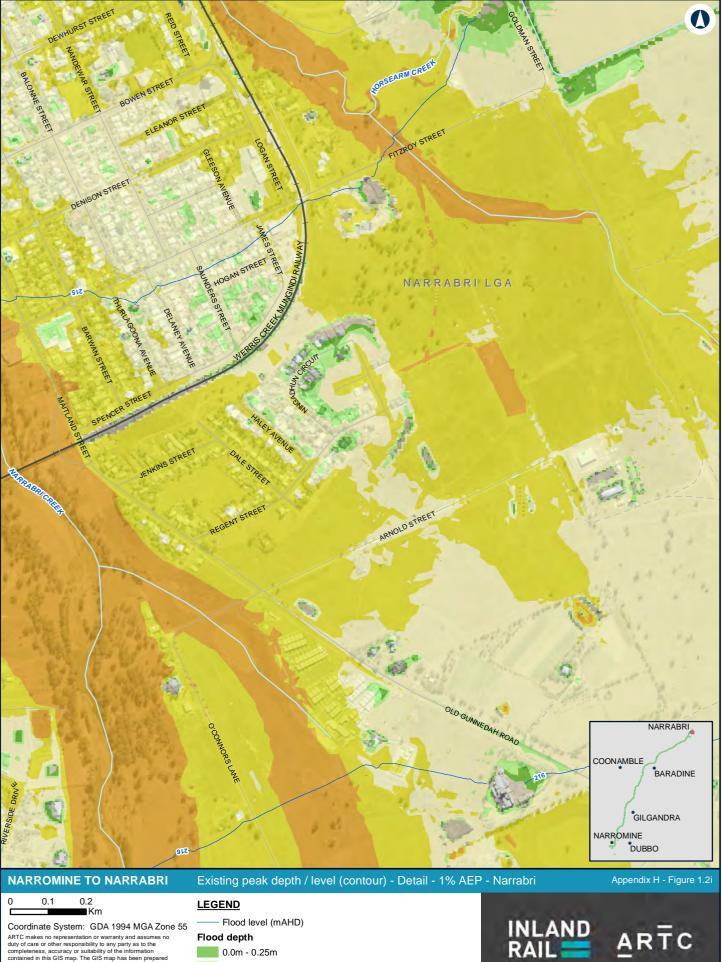
0.0m - 0.25m 0.25m - 0.5m 0.5m - 1.0m

1.0m - 2.0m > 2.0m

Flood depth



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

 Flood level (m

 ro
 Flood depth

 ed
 0.0m - 0.25m

 d
 0.25m - 0.5m

 nred
 0.5m - 1.0m

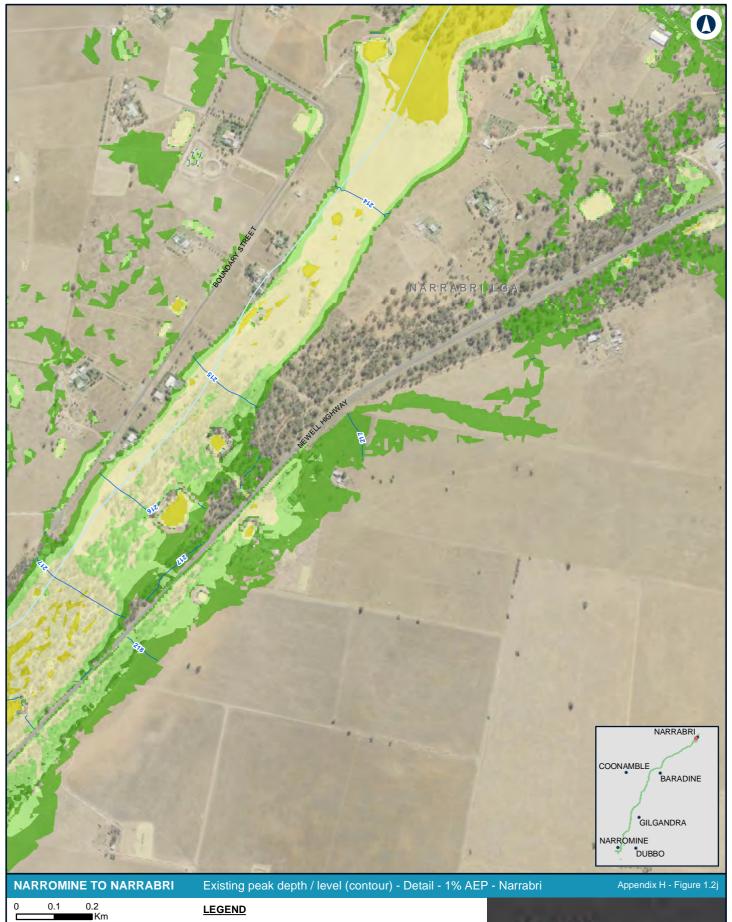
 1
 1.0m - 2.0m

 > 2.0m

he Australian Government is delivering Inland Rail

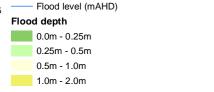
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

 $G:22119593; GISGIS_2500_N2N_v2|Maps|Deliverables_EISFinal|EIS|FloodingHydrologyAssessment|Apendix|2500_EISFWPAPP078_FloodBehaviourDepth_1pcExist_Detail.mxd$



Coordinate System: GDA 1994 MGA Zone 55 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Scale: 1:10,000

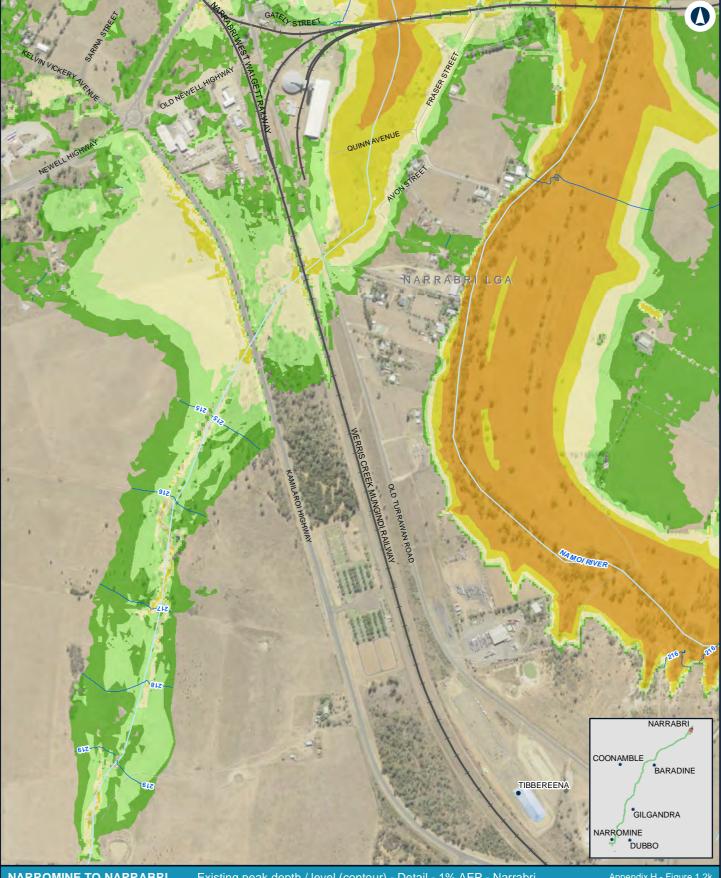
Data Sources: Basemap layers: NSWSS;





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 $G:22119593\\ GIS_2500_N2N_v2\\ Maps\\ Deliverables_EISFinal\\ EISFinodingHydrology\\ Assessment\\ Apendix\\ 2500_EISFWPAPP078_FloodBehaviourDepth_1pcExist_Detail.mxd$



NARROMINE TO NARRABRI

0 0.1 0.2 С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000 Data Sources: Basemap layers: NSWSS;

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

Appendix H - Figure 1.2k



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 $G:22119593\\ GIS_2500_N2N_v2\\ Maps\\ Deliverables_EISFinal\\ EISFinodingHydrology\\ Assessment\\ Apendix\\ 2500_EISFWPAPP078_FloodBehaviourDepth_1pcExist_Detail.mxd$

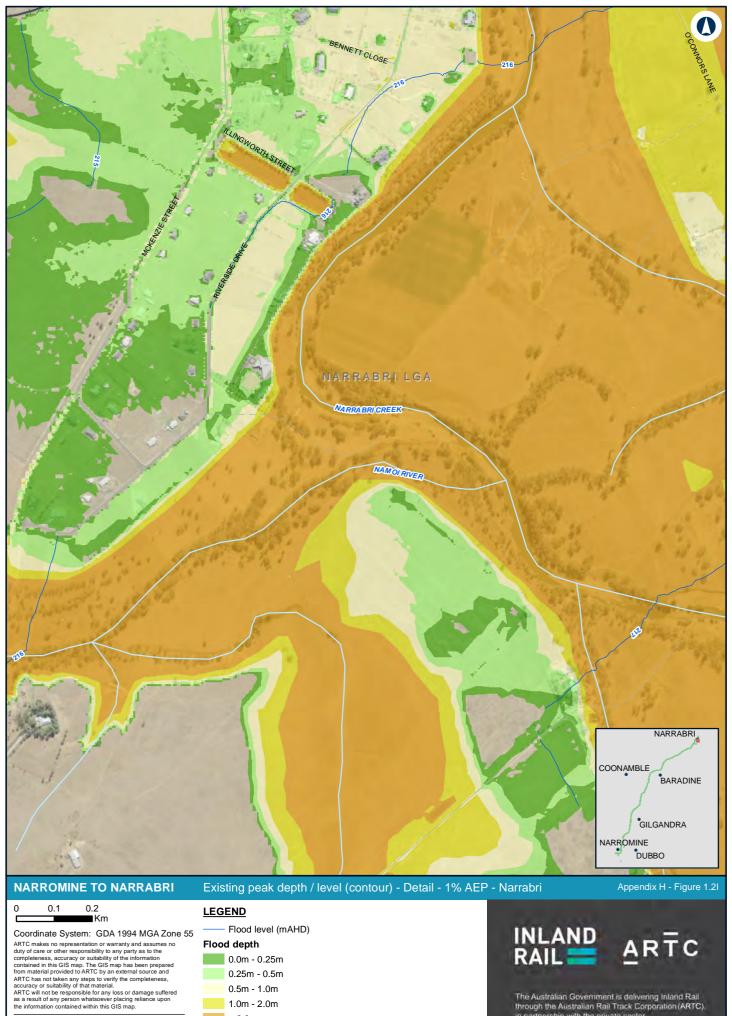
Flood level (mAHD)

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

1.0m - 2.0m > 2.0m

LEGEND

Flood depth



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 $G:22119593\\ GIS_2500_N2N_v2\\ Maps\\ Deliverables_EISFinal\\ EISFinodingHydrology\\ Assessment\\ Apendix\\ 2500_EISFWPAPP078_FloodBehaviourDepth_1pcExist_Detail.mxd$

1.0m - 2.0m > 2.0m

Date: 6/11/2020 Author: JacobsGHD

Data Sources: Basemap layers: NSWSS;

Paper: A4 Scale: 1:10,000



0.2 m - 0.5 m increase

> 0.5 m increase

Was dry now wet

Was wet now dry

Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constained within this GIS map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000



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

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

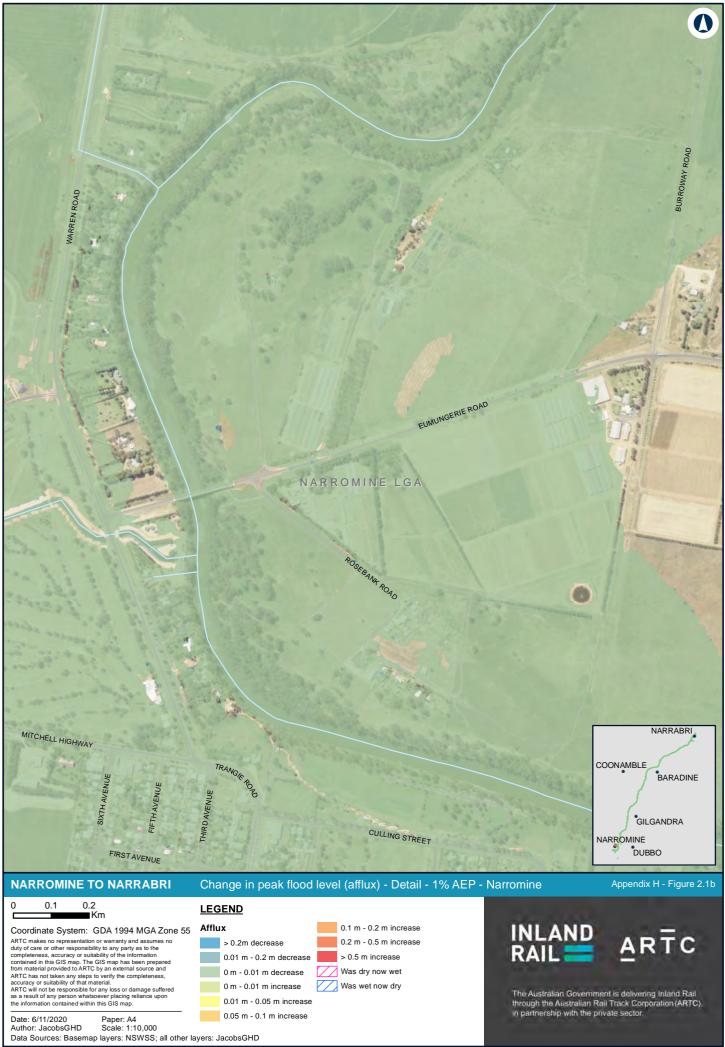
 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

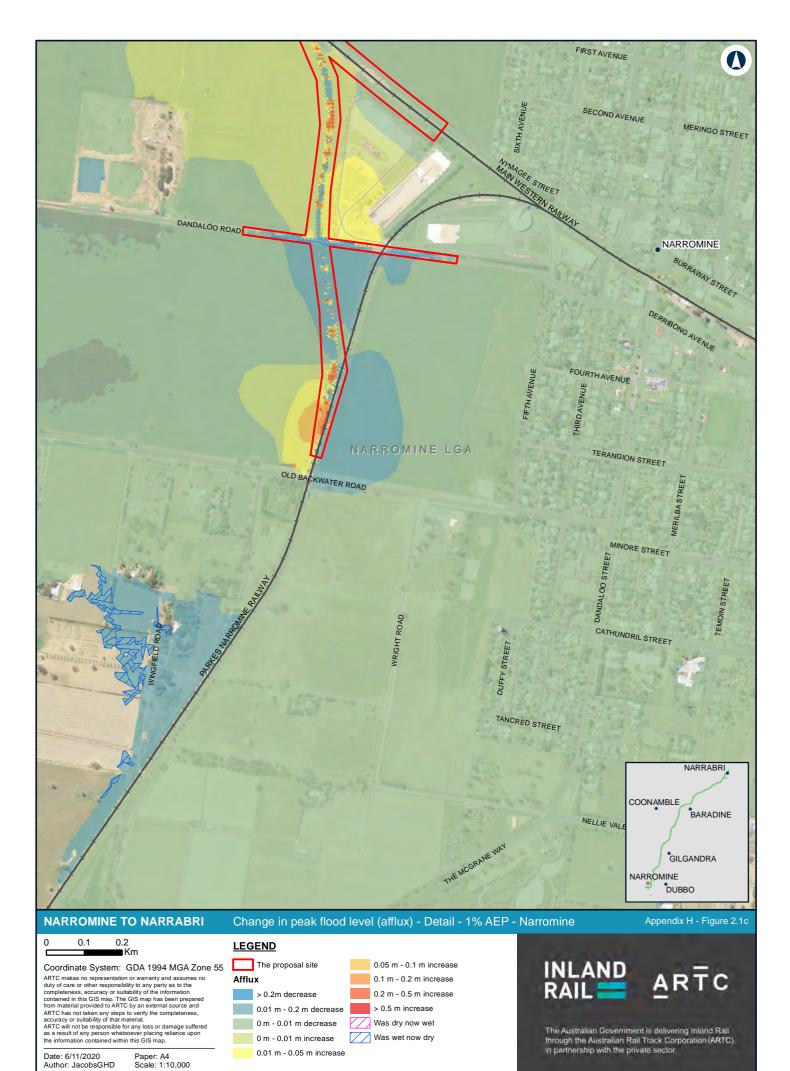
0.01 m - 0.2 m decrease 0 m - 0.01 m decrease

0 m - 0.01 m increase

0.01 m - 0.05 m increase



G122/19593/GIS/GIS_2500_N2N_v2/Maps/Deliverables_EISFinal/EIS/FloodingHydrologyAssessment/Apendix/2500_EISFWPAPP078_FloodImpactAfflux_1pc_Detail.mxd



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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$



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

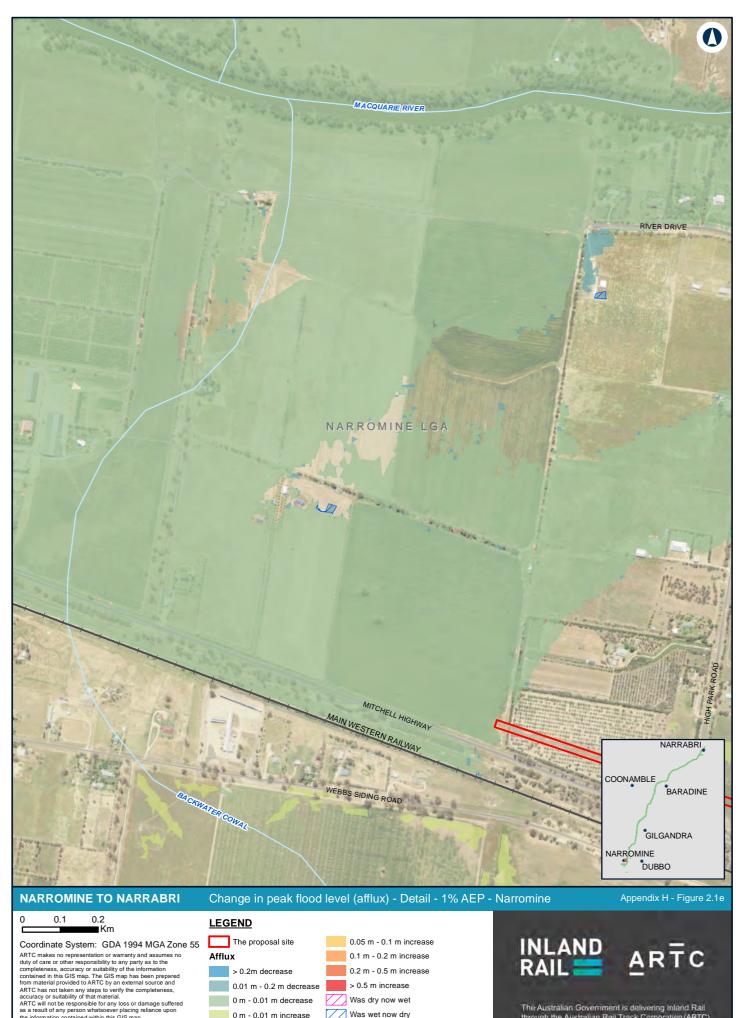
Paper: A4 Scale: 1:10,000 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

the information contained within this GIS map.

Date: 6/11/2020 Author: JacobsGHD

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

0.01 m - 0.05 m increase



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

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

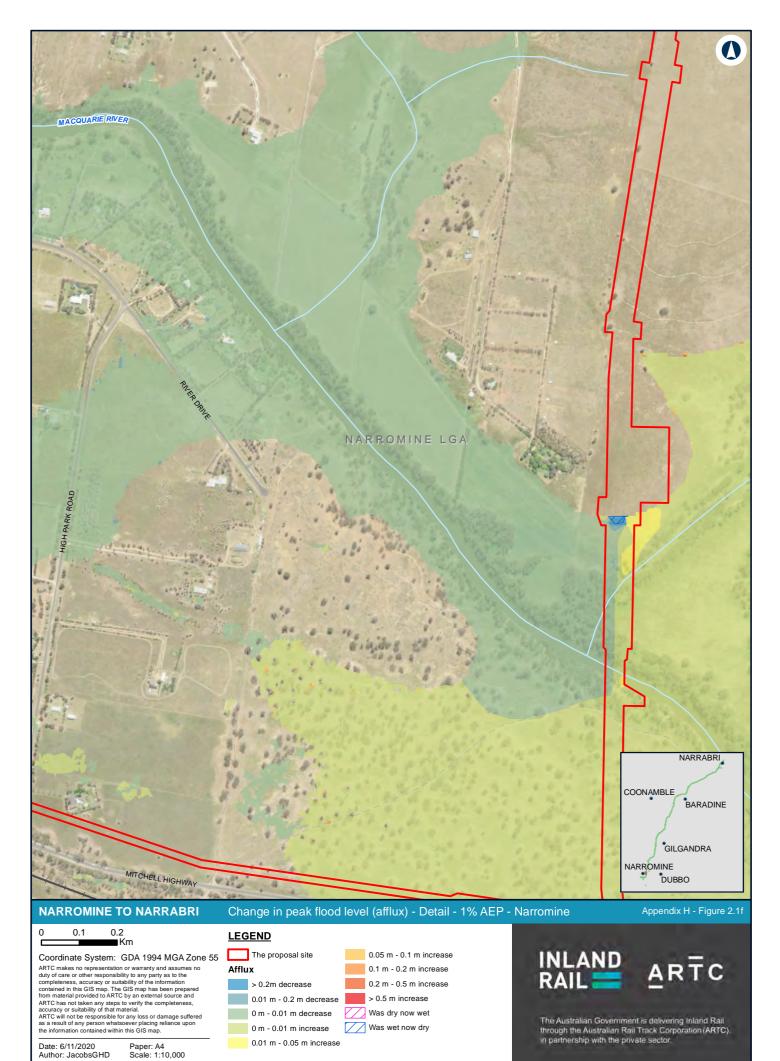
the information contained within this GIS map.

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

0 m - 0.01 m increase

0.01 m - 0.05 m increase

Was wet now dry



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

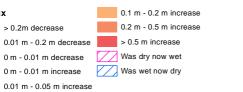
 $G: 2219593 \\ G: SCO_ESUP \\ Control C$



0 0.1 0.2

_____Km

Coordinate System: GDA 1994 MGA Zone 55 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Scale: 1:10,000





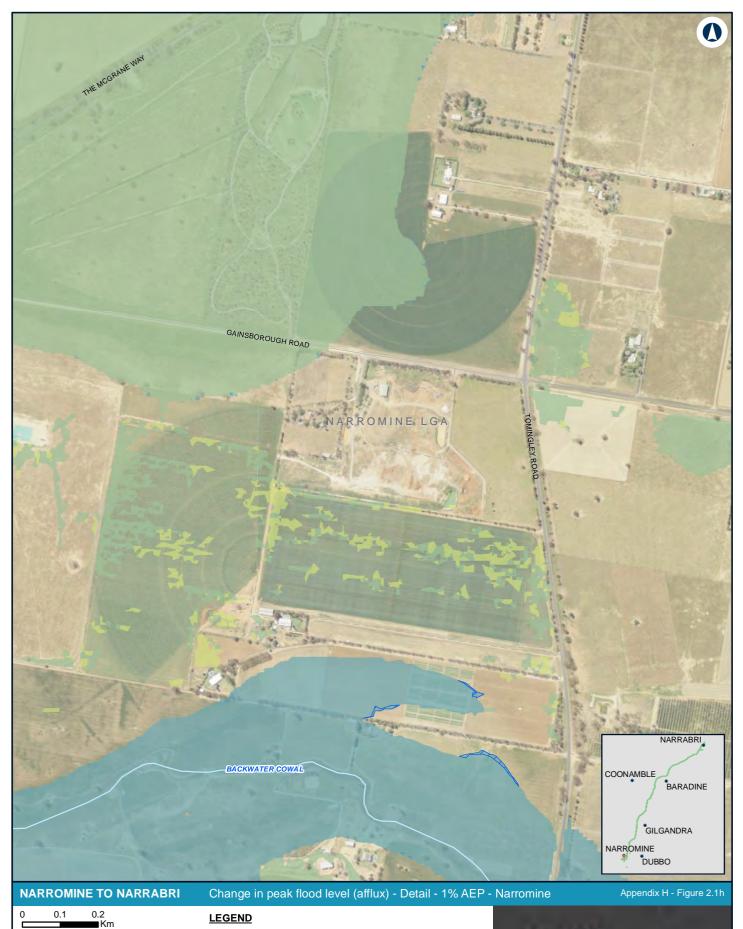
The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

0.05 m - 0.1 m increase

LEGEND



0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

🖊 Was dry now wet

Was wet now dry

Afflux Contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has no taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not the responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. 0 m - 0.01 m increase Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000 0.05 m - 0.1 m increase



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

G:2219593/GIS/GIS_2500_N2N_v2/Maps/Deliverables_EISFinal/EIS/FloodingHydrologyAssessment/Apendix/2500_EISFWPAPP078_FloodImpactAfflux_1pc_Detail.mxd



0 0.1 0.2

С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

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

0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

Was dry now wet

Was wet now dry



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

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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

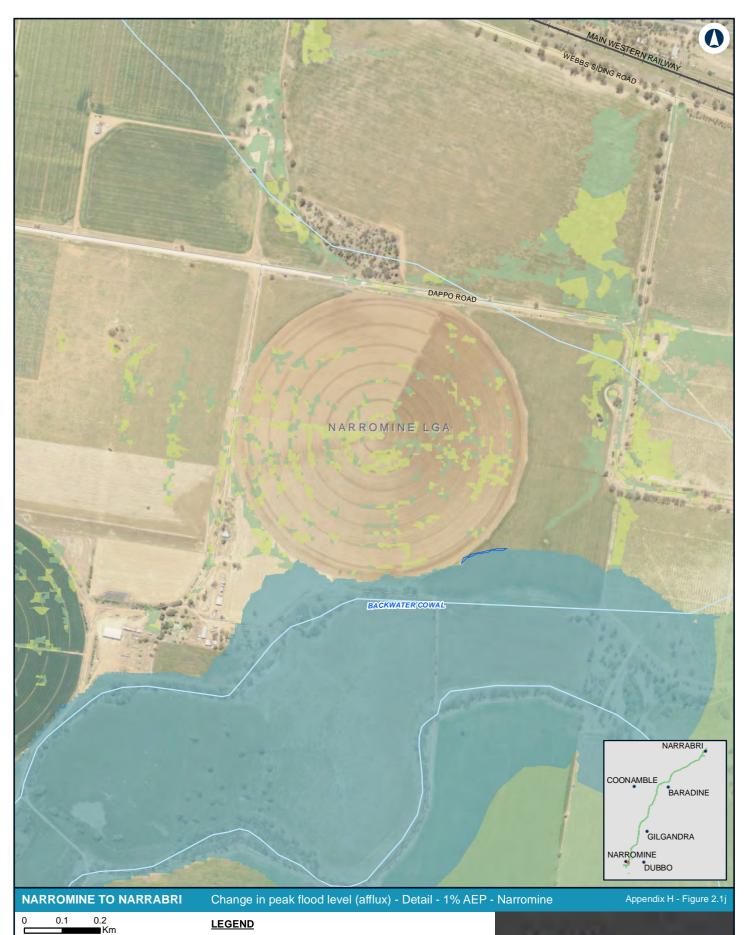
0.01 m - 0.2 m decrease

0 m - 0.01 m decrease 0 m - 0.01 m increase

0.01 m - 0.05 m increase

0.05 m - 0.1 m increase

LEGEND



0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

Was dry now wet

Was wet now dry



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

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

 $G: 2219593 \label{eq:generalized_general$

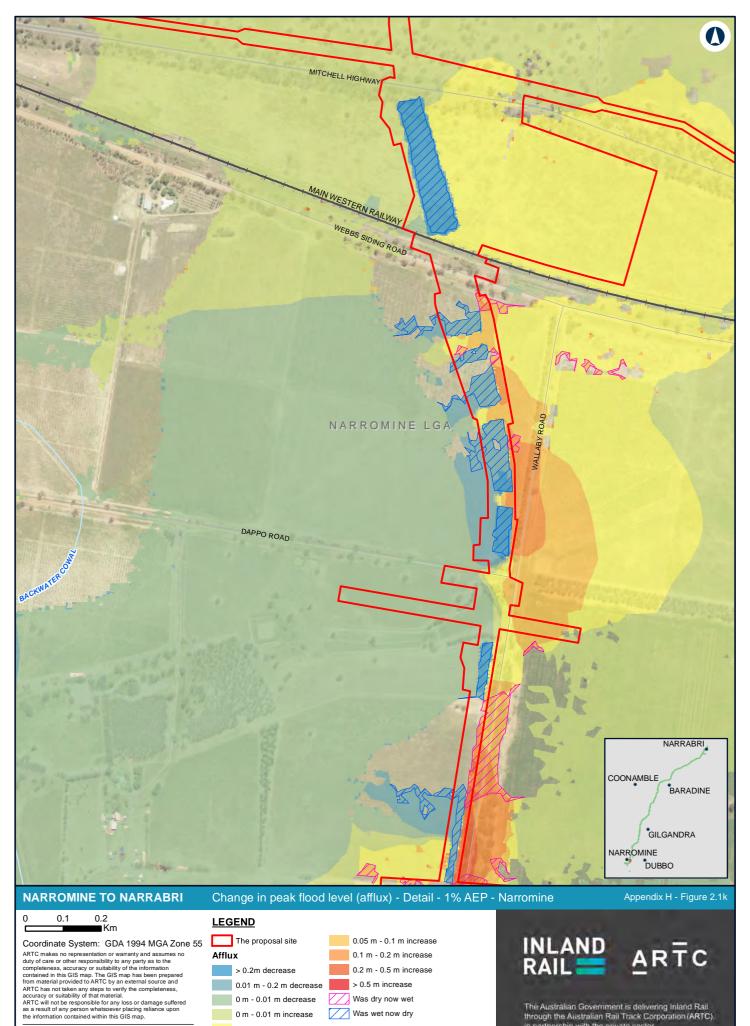
> 0.2m decrease

0.01 m - 0.2 m decrease

0.01 m - 0.05 m increase

0.05 m - 0.1 m increase

0 m - 0.01 m decrease 0 m - 0.01 m increase



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

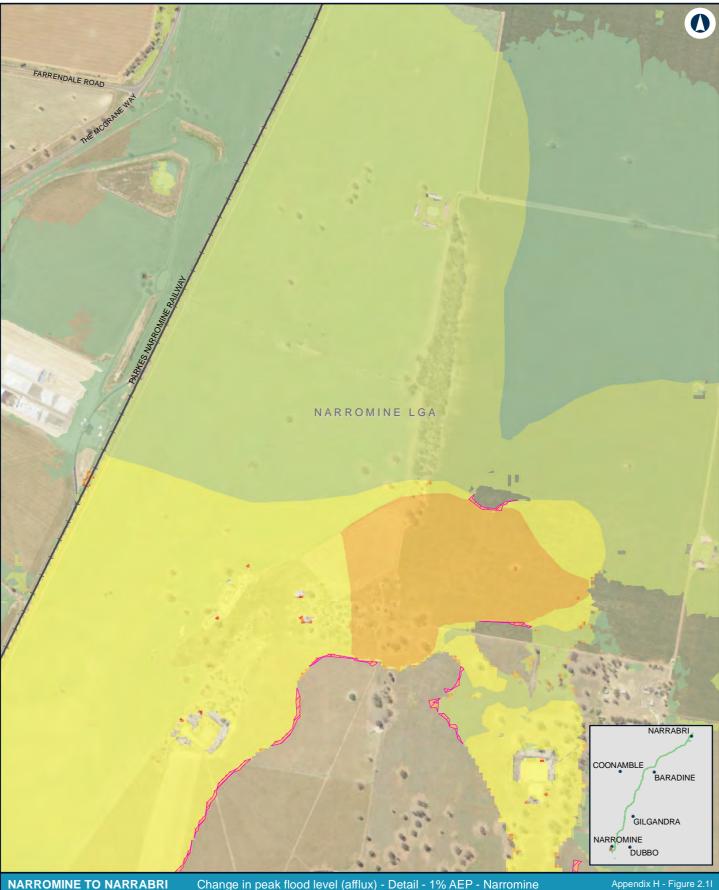
Paper: A4 Scale: 1:10,000 Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

Date: 6/11/2020 Author: JacobsGHD

0 m - 0.01 m increase

0.01 m - 0.05 m increase

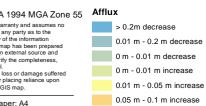
Was wet now dry



0 0.1 0.2 С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

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



LEGEND

0.1 m - 0.2 m increase 0.2 m - 0.5 m increase > 0.5 m increase 🖉 Was dry now wet Was wet now dry



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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

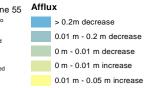


Change in peak flood level (afflux) - Detail - 1% AEP - Narromine

Appendix H - Figure 2.1m



Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000



LEGEND

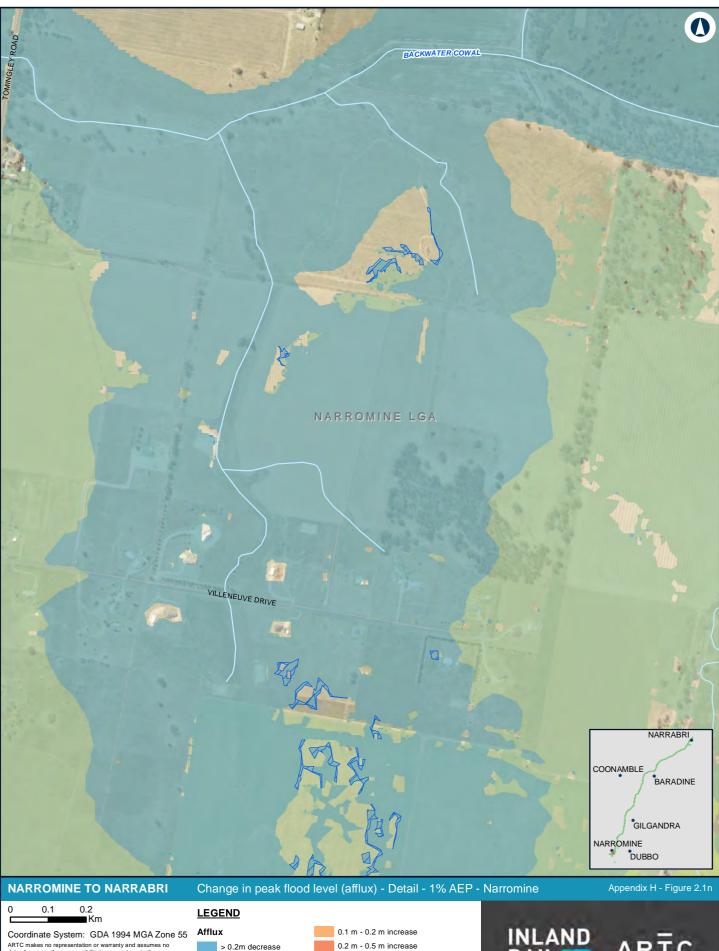
0.1 m - 0.2 m increase 0.2 m - 0.5 m increase > 0.5 m increase Was dry now wet Was wet now dry



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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$



> 0.5 m increase

🖊 Was dry now wet

Was wet now dry





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

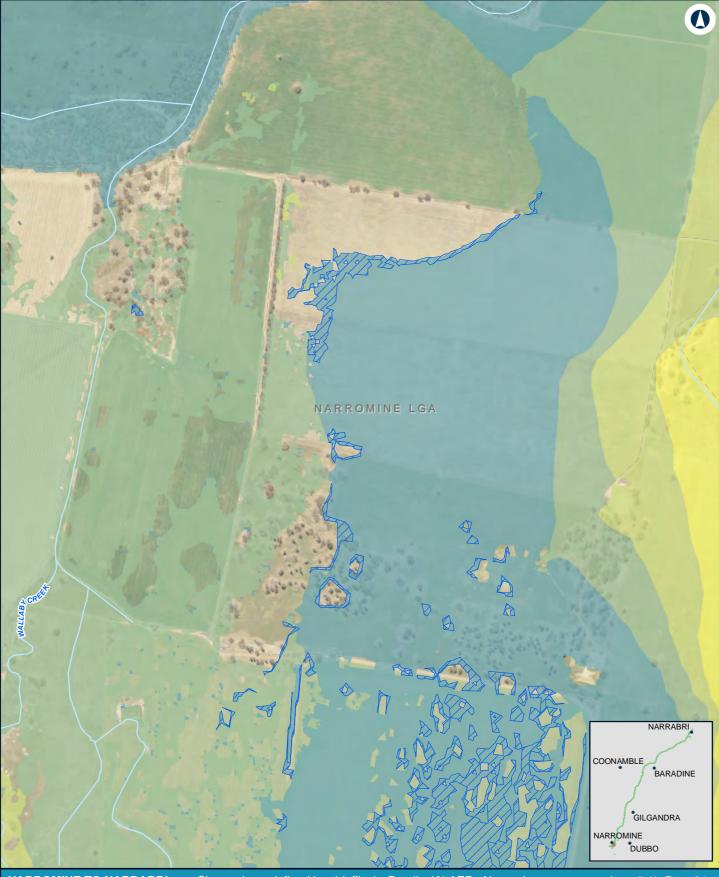
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

> 0.2m decrease

0.01 m - 0.2 m decrease

0 m - 0.01 m decrease 0 m - 0.01 m increase

0.01 m - 0.05 m increase



NARROMINE TO NARRABRI

Coordinate System: GDA 1994 MGA Zone 55

Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map.

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

Appendix H - Figure 2.10



the information contained within this GIS map.

LEGEND

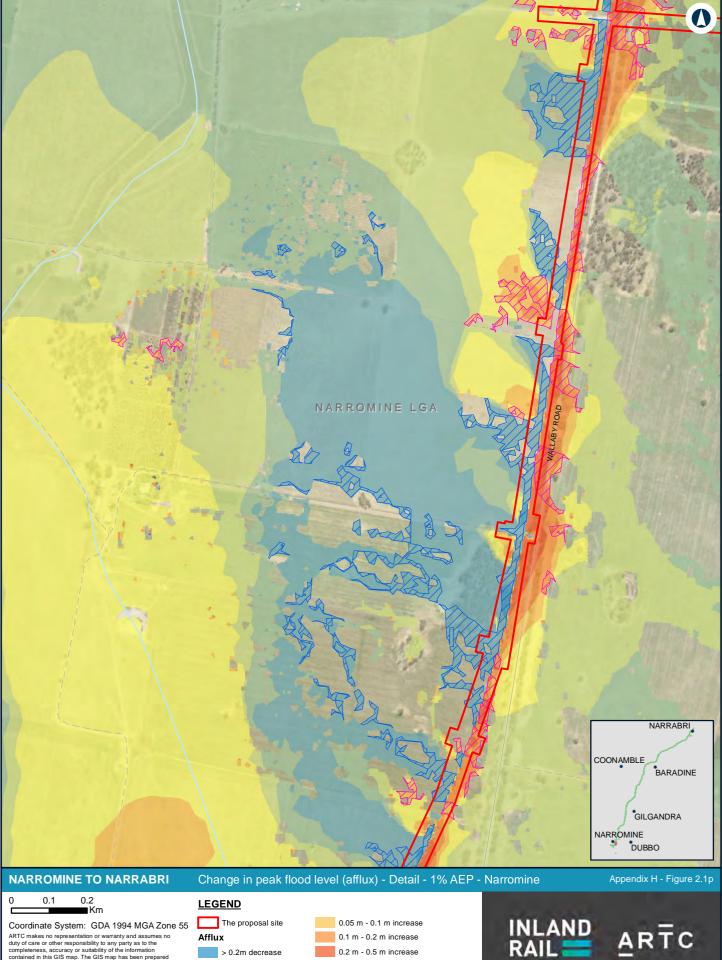
Afflux > 0.2m decrease 0.01 m - 0.2 m decrease 0 m - 0.01 m decrease 0 m - 0.01 m increase 0.01 m - 0.05 m increase

0.1 m - 0.2 m increase 0.2 m - 0.5 m increase > 0.5 m increase 🖊 Was dry now wet Was wet now dry



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



> 0.5 m increase

Was dry now wet

Was wet now dry

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COOTCINIATE SYSTEM: GDA 1994 MIGA ZONE * ARTC makes on representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Paper: A4 Author: JacobsGHD Scale: 1:10,000

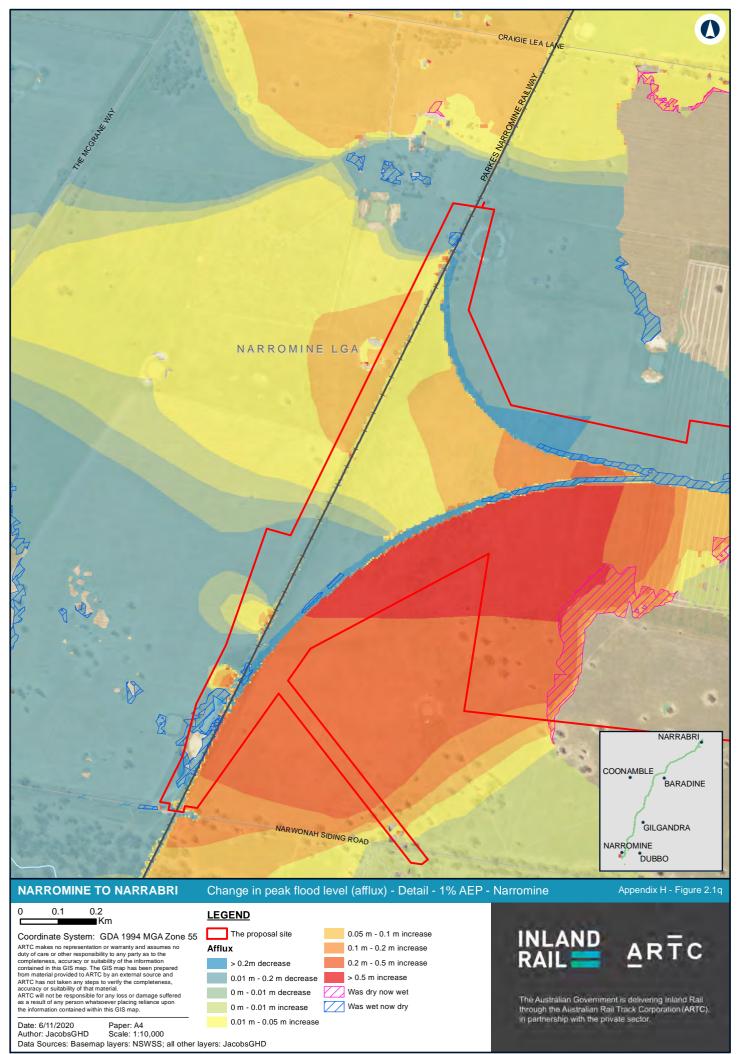
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

G/22/19593/GIS/GIS_2500_N2N_v2/Maps/Deliverables_EISFinal/EIS/FloodingHydrologyAssessment/Apendix/2500_EISFWPAPP078_FloodImpactAfflux_1pc_Detail.mxd

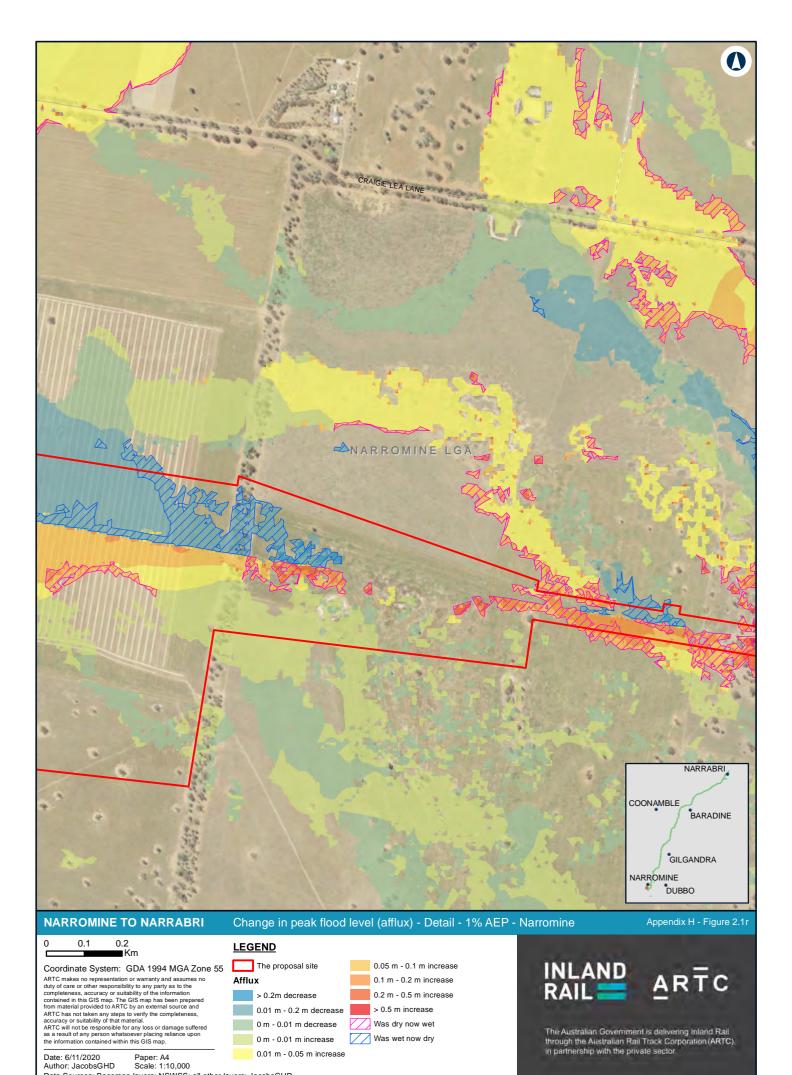
0.01 m - 0.2 m decrease 0 m - 0.01 m decrease

0 m - 0.01 m increase

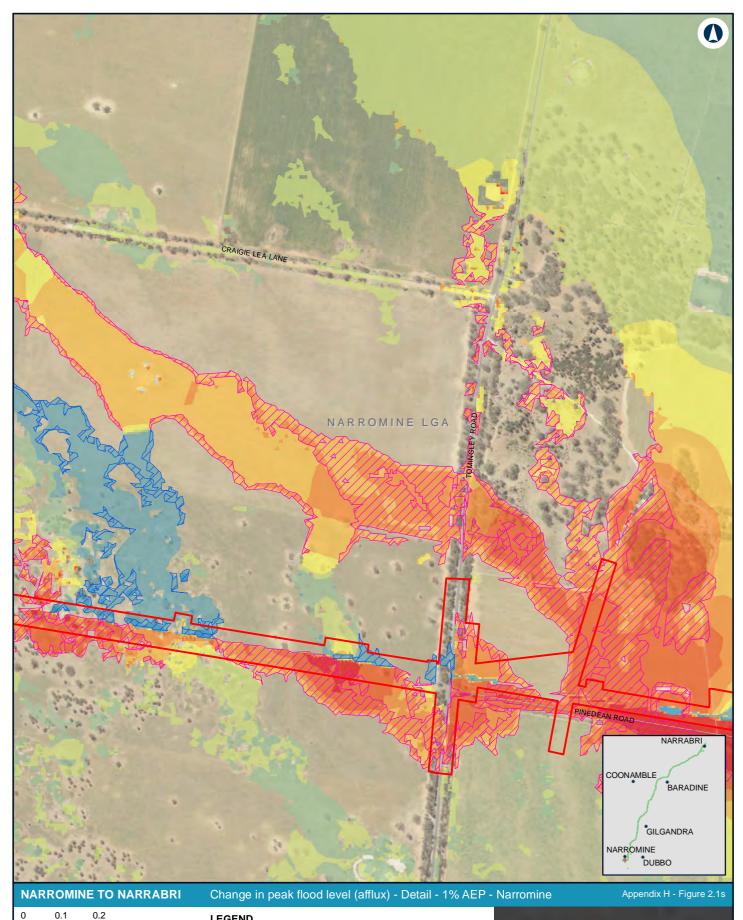
0.01 m - 0.05 m increase



 $G: 2219593 \\ G: SCO_ESUP \\ Control C$



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



Coordinate System: GDA 1994 MGA Zone 55 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Scale: 1:10,000

The proposal site

Afflux

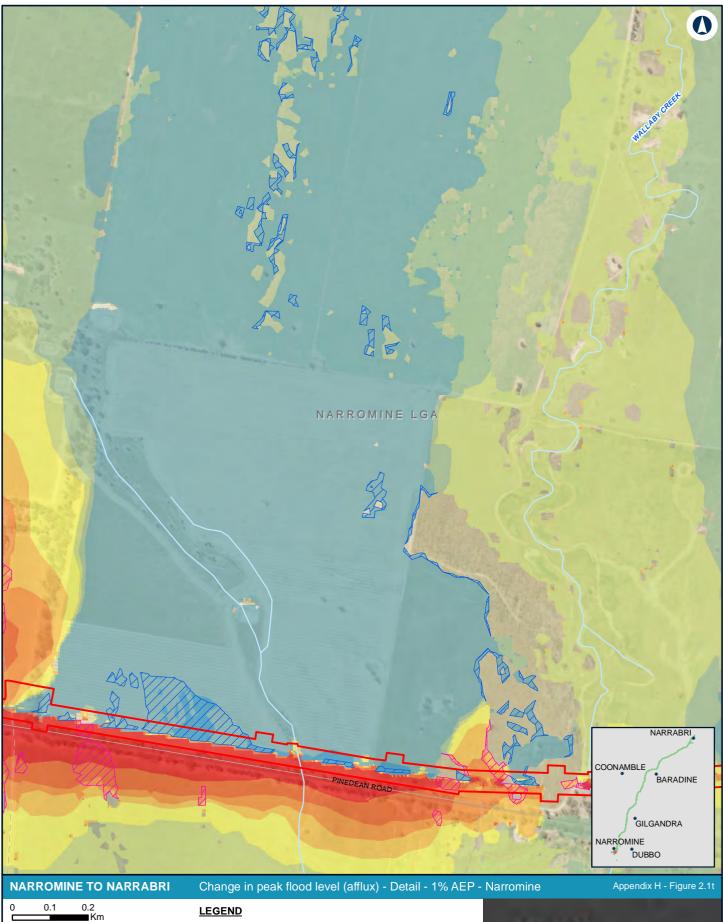
> 0.2m decrease
0.01 m - 0.2 m decrease
0 m - 0.01 m decrease
0 m - 0.01 m increase

0.05 m - 0.1 m increase 0.1 m - 0.2 m increase 0.2 m - 0.5 m increase > 0.5 m increase Was dry now wet RAIL ARTC

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

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

0.01 m - 0.05 m increase



0.05 m - 0.1 m increase

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

> 0.5 m increase

Was dry now wet

Was wet now dry

Coordinate System: GDA 1994 MGA Zone 55 ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Scale: 1:10,000



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

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

The proposal site

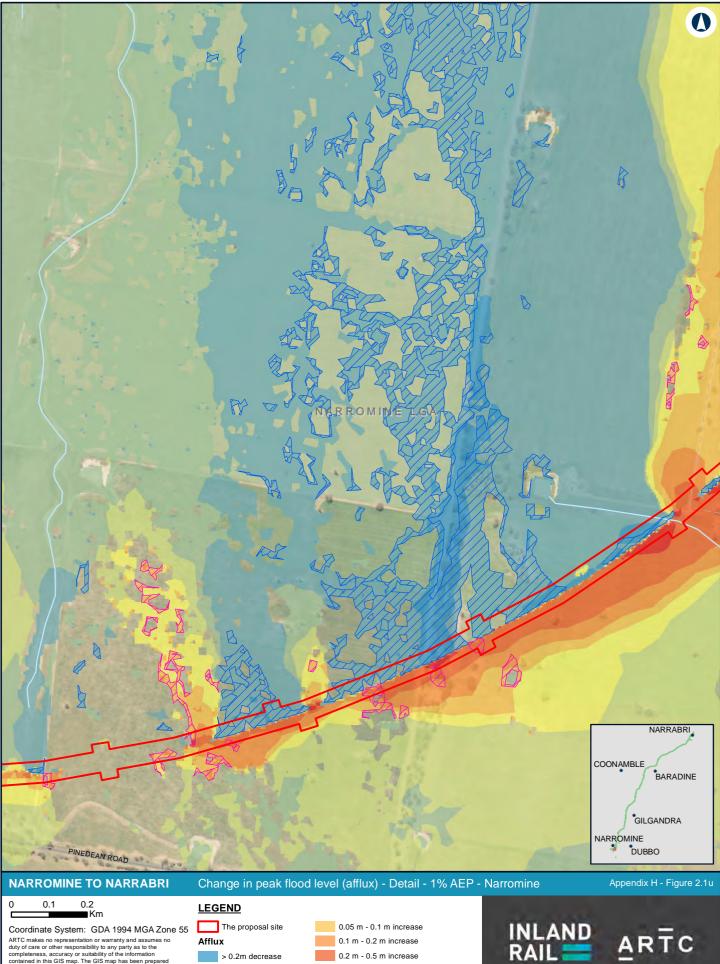
> 0.2m decrease

0.01 m - 0.2 m decrease 0 m - 0.01 m decrease

0 m - 0.01 m increase

0.01 m - 0.05 m increase

ſ



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

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

> 0.5 m increase

Was dry now wet

Was wet now dry

Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constained within this GIS map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

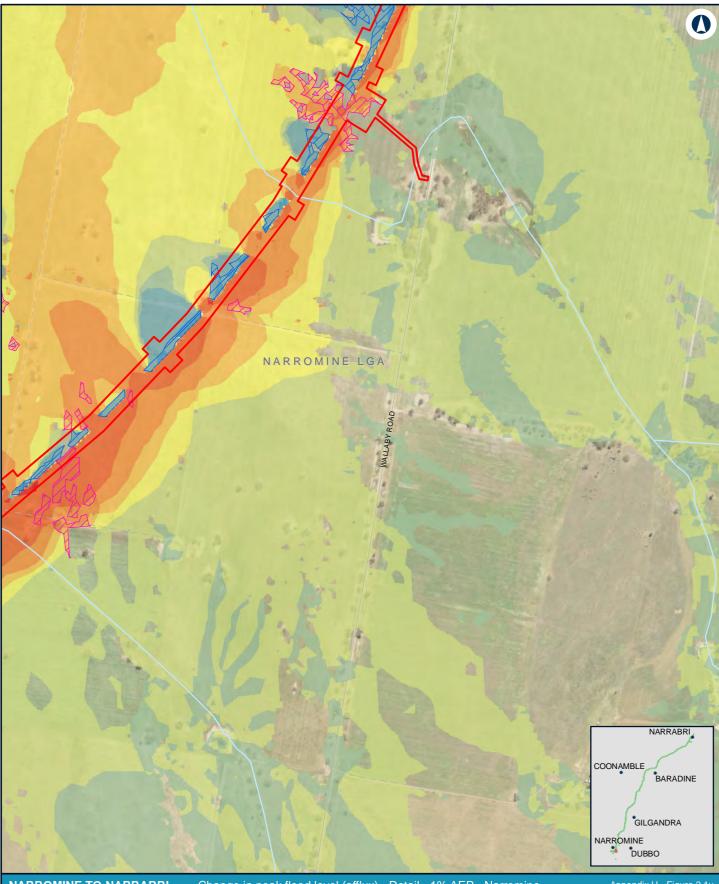
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

> 0.2m decrease

0.01 m - 0.2 m decrease 0 m - 0.01 m decrease

0 m - 0.01 m increase

0.01 m - 0.05 m increase



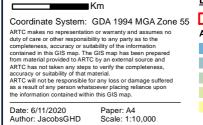
NARROMINE TO NARRABRI 0.2

0

0.1

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

Appendix H - Figure 2.1v

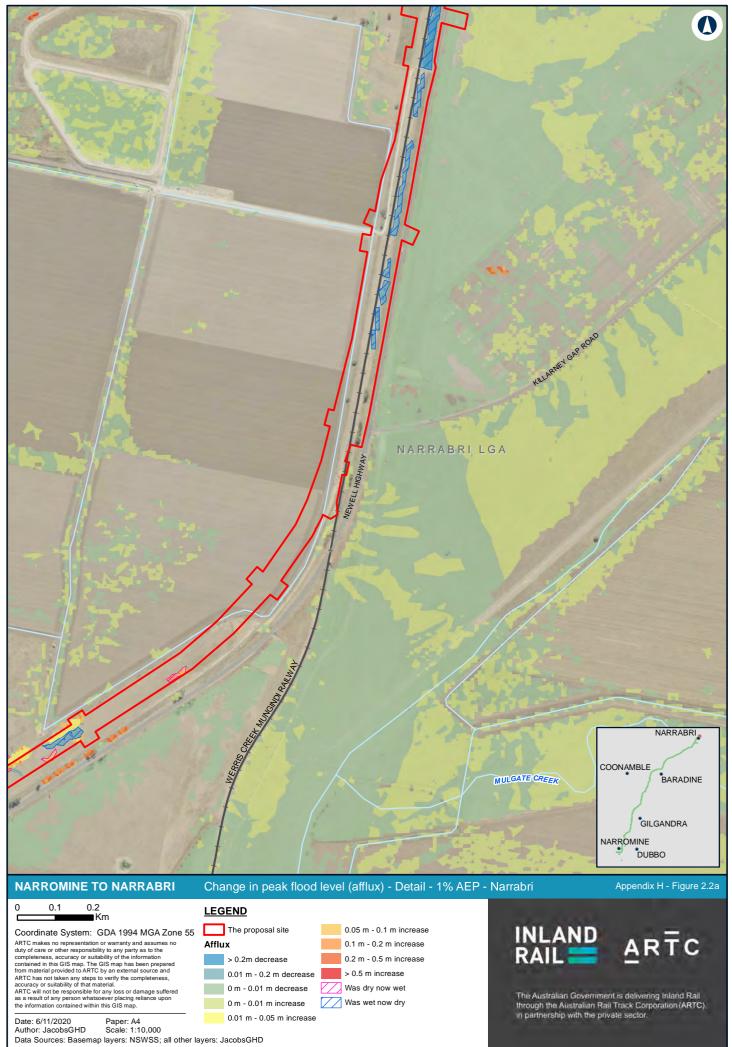


LEGEND The proposal site 0.05 m - 0.1 m increase 0.1 m - 0.2 m increase 0.2 m - 0.5 m increase > 0.2m decrease > 0.5 m increase 0.01 m - 0.2 m decrease 0 m - 0.01 m decrease Was dry now wet 0 m - 0.01 m increase Was wet now dry 0.01 m - 0.05 m increase

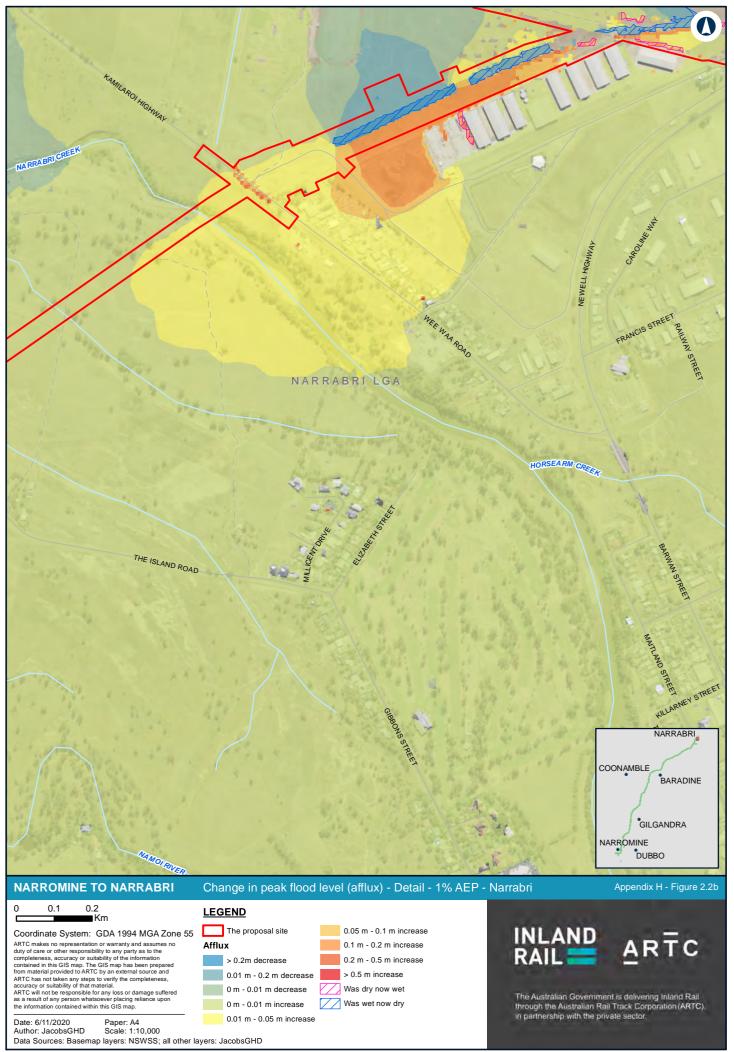


The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

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



G:22119593;GIS\GIS_2500_N2N_v2!Maps\Deliverables_EISFinal\EIS\FloodingHydrologyAssessment\Apendix\2500_EISFWPAPP078_FloodImpactAfflux_1pc_Detail.mxd



 $G: 2219593 \\ G: SCO_ESUP \\ Control C$



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

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

the information contained within this GIS map.

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

0 m - 0.01 m increase

0.01 m - 0.05 m increase

Was wet now dry



0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

Was wet now dry





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

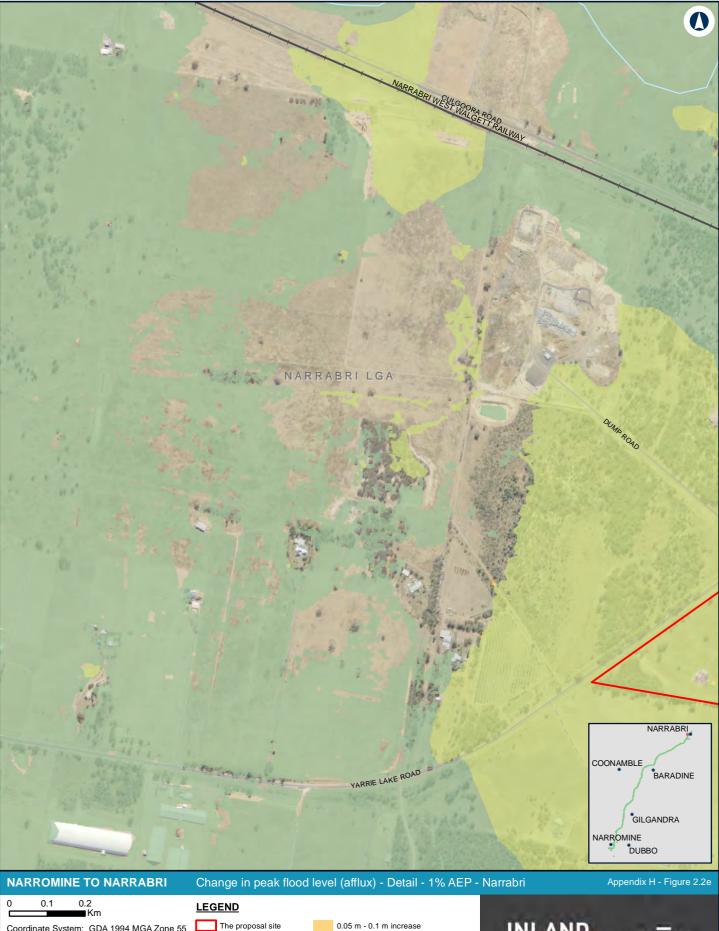
Data Sources: Basemap layers: NSWSS; all other layers: JacobsGHD

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease 0.01 m - 0.2 m decrease

0 m - 0.01 m decrease 0 m - 0.01 m increase

0.01 m - 0.05 m increase



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

> 0.5 m increase

Was dry now wet

Was wet now dry





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

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

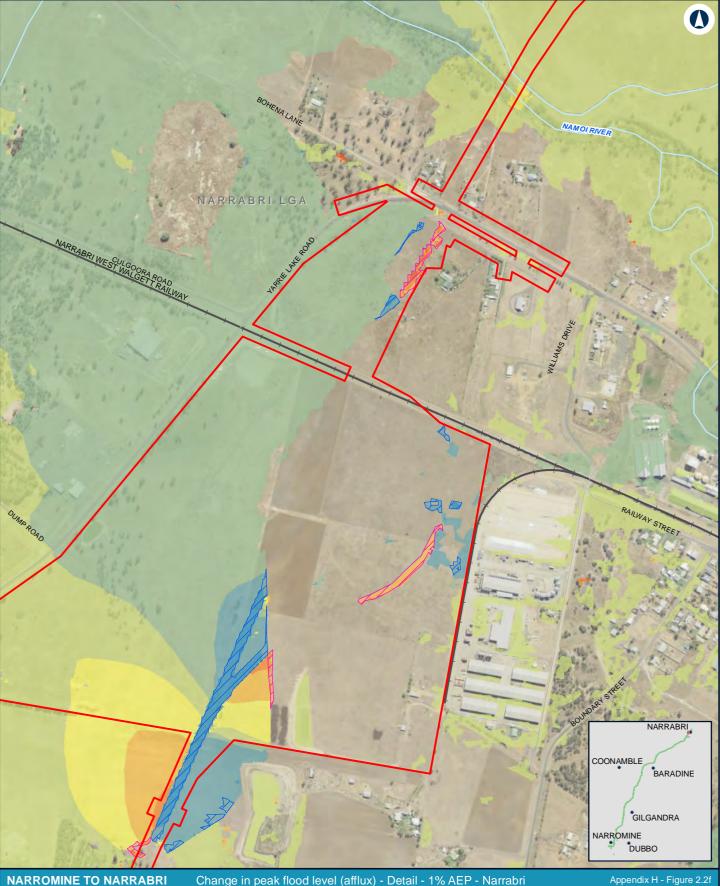
 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

0.01 m - 0.2 m decrease 0 m - 0.01 m decrease

0 m - 0.01 m increase

0.01 m - 0.05 m increase



0.2

0

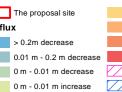
0.1

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

Appendix H - Figure 2.2f



LEGEND



0.1 m - 0.2 m increase 0.2 m - 0.5 m increase > 0.5 m increase Was dry now wet Was wet now dry

0.05 m - 0.1 m increase



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

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

0.01 m - 0.05 m increase



> 0.5 m increase

🖊 Was dry now wet

Was wet now dry

Coordinate System: GDA 1994 MIGA 20ne ARTC makes no representation or warranty and assumes no duty of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constained within this GIS map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000



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

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

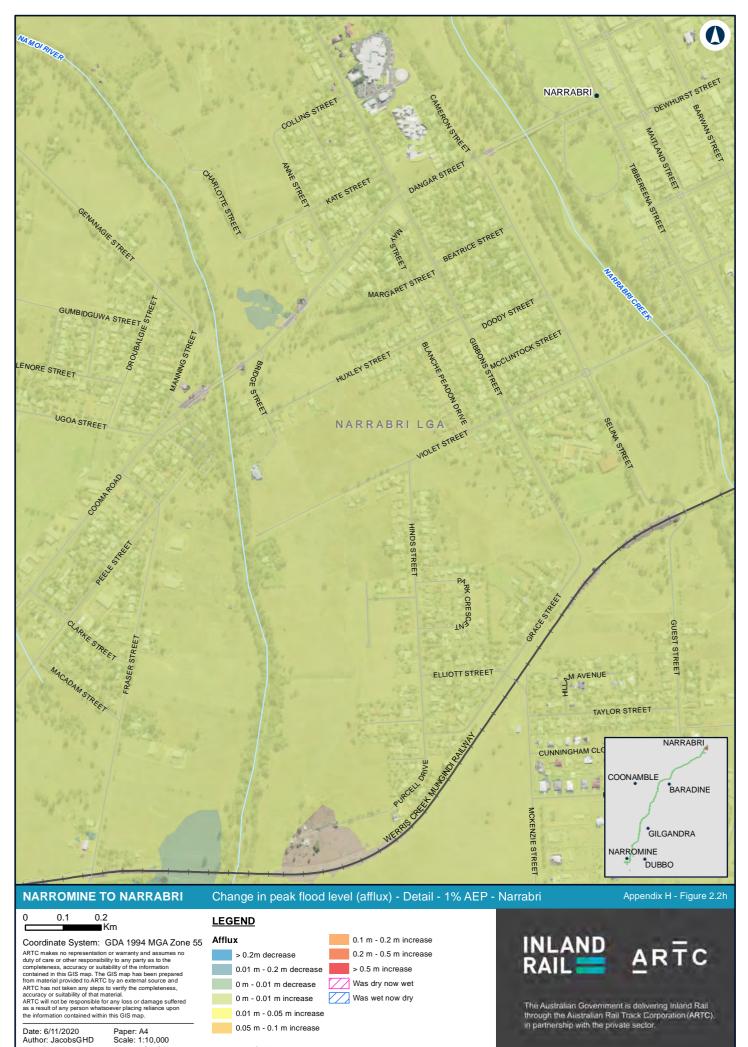
 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

0.01 m - 0.2 m decrease

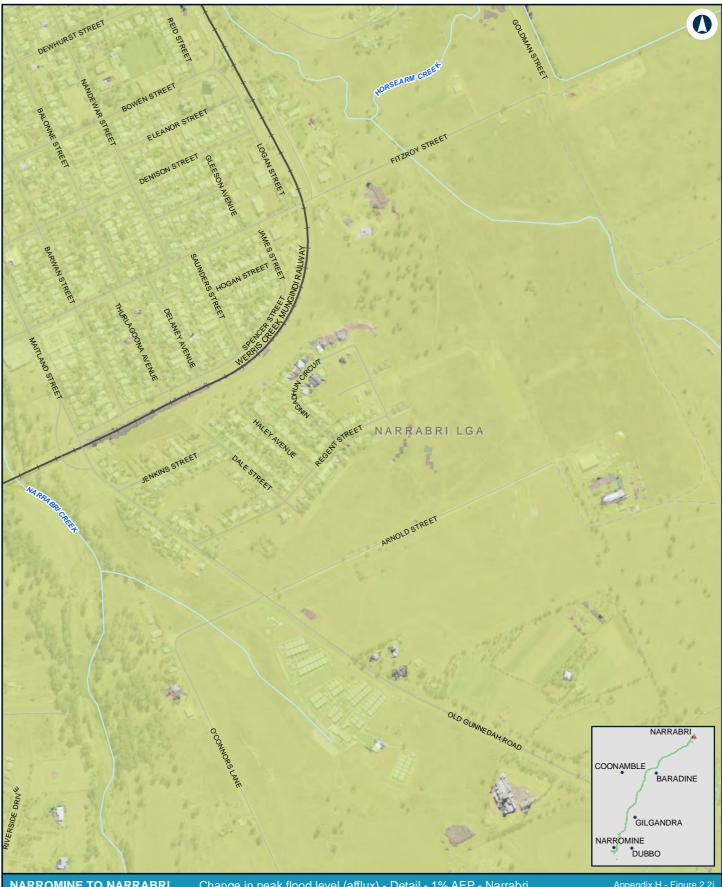
0 m - 0.01 m decrease 0 m - 0.01 m increase

0.01 m - 0.05 m increase



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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$



NARROMINE TO NARRABRI

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

Appendix H - Figure 2.2i



Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

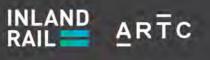
0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

🖊 Was dry now wet

Was wet now dry



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

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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

0.01 m - 0.2 m decrease

0.01 m - 0.05 m increase

0.05 m - 0.1 m increase

0 m - 0.01 m decrease 0 m - 0.01 m increase

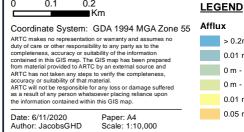
LEGEND



0.2

0.1

0



0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

Was dry now wet

Was wet now dry



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

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

 $G: 22(19593) GISGIS_{2500}N2N_v2: Maps: Deliverables_EISFinal: EISFinal: EISFinal: FloodingHydrologyAssessment (Apendix: 2500_EISFWPAPP078_FloodImpactAfflux_1pc_Detail.mxd) and the flood of the floo$

> 0.2m decrease

0.01 m - 0.2 m decrease 0 m - 0.01 m decrease

0 m - 0.01 m increase

0.05 m - 0.1 m increase

0.01 m - 0.05 m increase



NARROMINE TO NARRABRI

0 0.1 0.2 С Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

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

0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

🖊 Was dry now wet

Was wet now dry

Appendix H - Figure 2.2k



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

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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

0.01 m - 0.2 m decrease

0 m - 0.01 m decrease 0 m - 0.01 m increase

0.01 m - 0.05 m increase

0.05 m - 0.1 m increase

LEGEND



NARROMINE TO NARRABRI

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



Km

Coordinate System: GDA 1994 MGA Zone 55 Coordinate System: GDA 1994 MIGA 20n6 ARTC makes no representation or warranty and assumes no duly of care or other responsibility to any party as to the completeness, accuracy or suitability of the information contained in this GIS map. The GIS map has been prepared from material provided to ARTC by an external source and ARTC has not taken any steps to verify the completeness, accuracy or suitability of that material. ARTC will not be responsible for any loss or damage suffered as a result of any person whatsoever placing reliance upon the information constrined within this GIF map. the information contained within this GIS map. Date: 6/11/2020 Author: JacobsGHD Paper: A4 Scale: 1:10,000

0.1 m - 0.2 m increase

0.2 m - 0.5 m increase

> 0.5 m increase

Was dry now wet

Was wet now dry

Appendix H - Figure 2.21



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

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

 $G: 2219593 \\ G: SCO_ESUP \\ Control C$

> 0.2m decrease

0.01 m - 0.2 m decrease

0 m - 0.01 m decrease 0 m - 0.01 m increase

0.01 m - 0.05 m increase

0.05 m - 0.1 m increase

LEGEND

JacobsGHD

Level 3, 24 Honeysuckle Drive, Newcastle NSW 2300 PO Box 5403, Hunter Region Mail Centre NSW 2310 T: +61 2 4979 9999 F: +61 2 4979 9988 E: ntlmail@ghd.com

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