

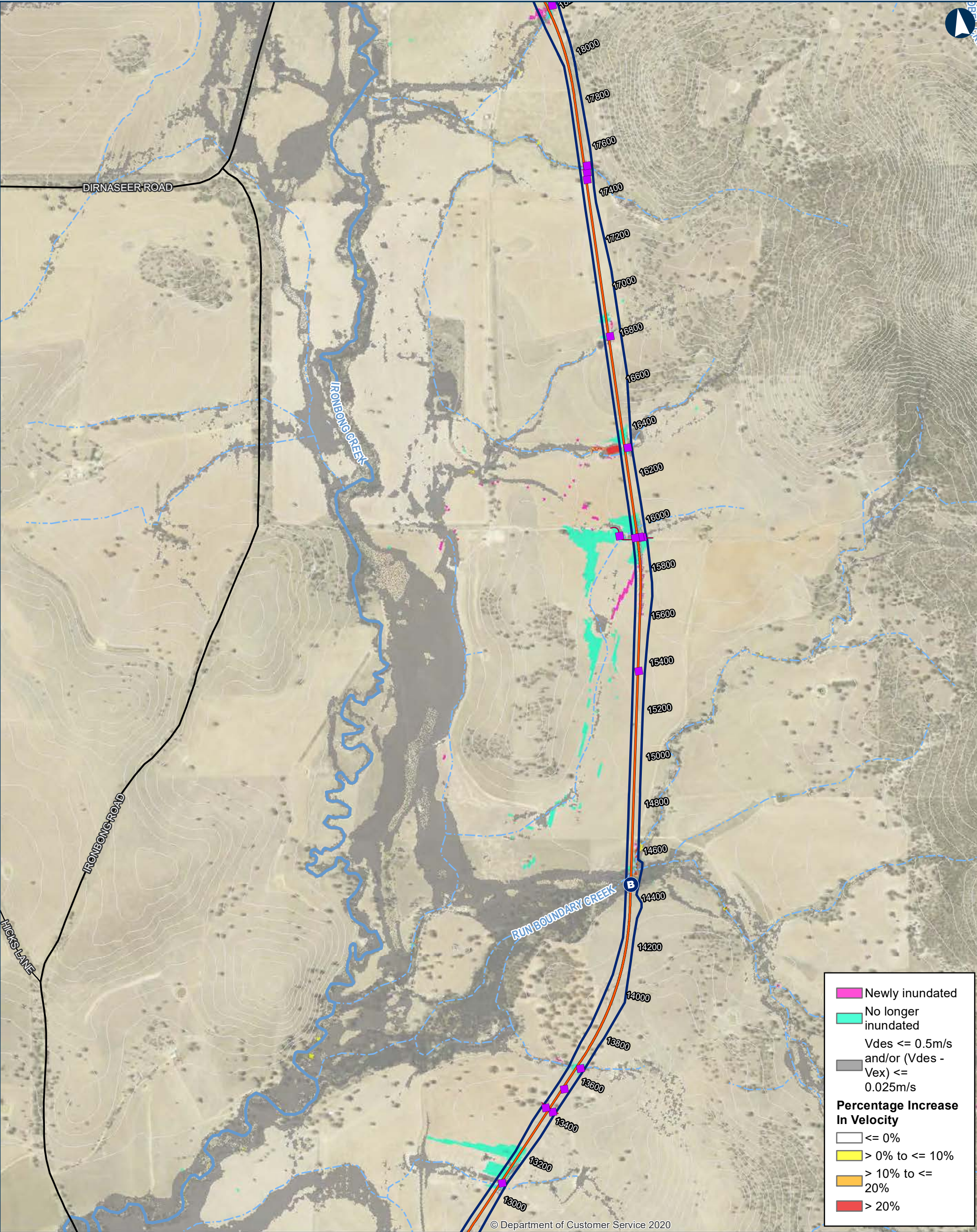
APPENDIX

D

Revised Hydrology and Flooding Impact Assessment Report

Part 6 of 7: Appendix D (3 of 4)

ILLABO TO STOCKINBINGAL RESPONSE TO SUBMISSIONS



ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 20/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

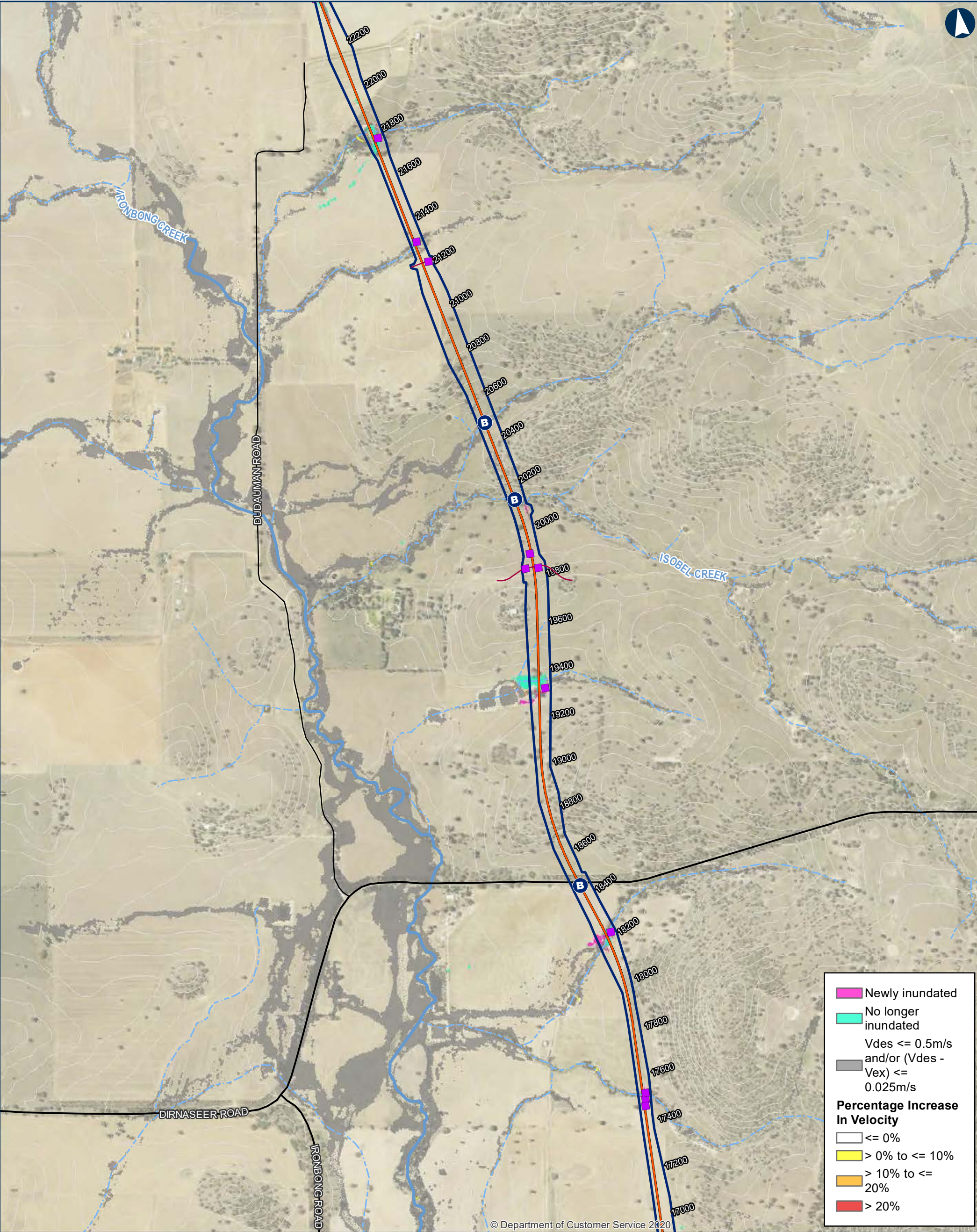
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

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40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

■ Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

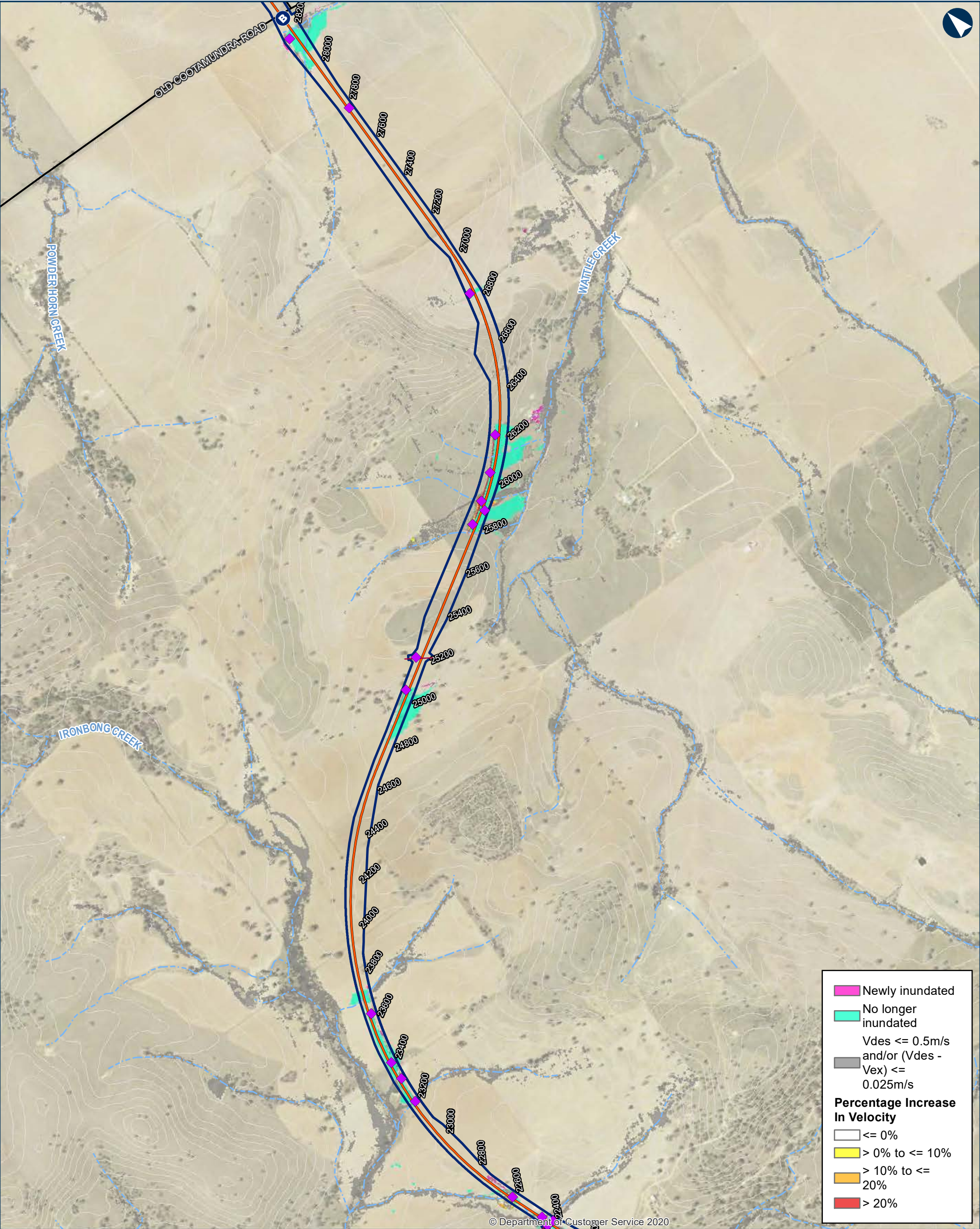
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 6 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

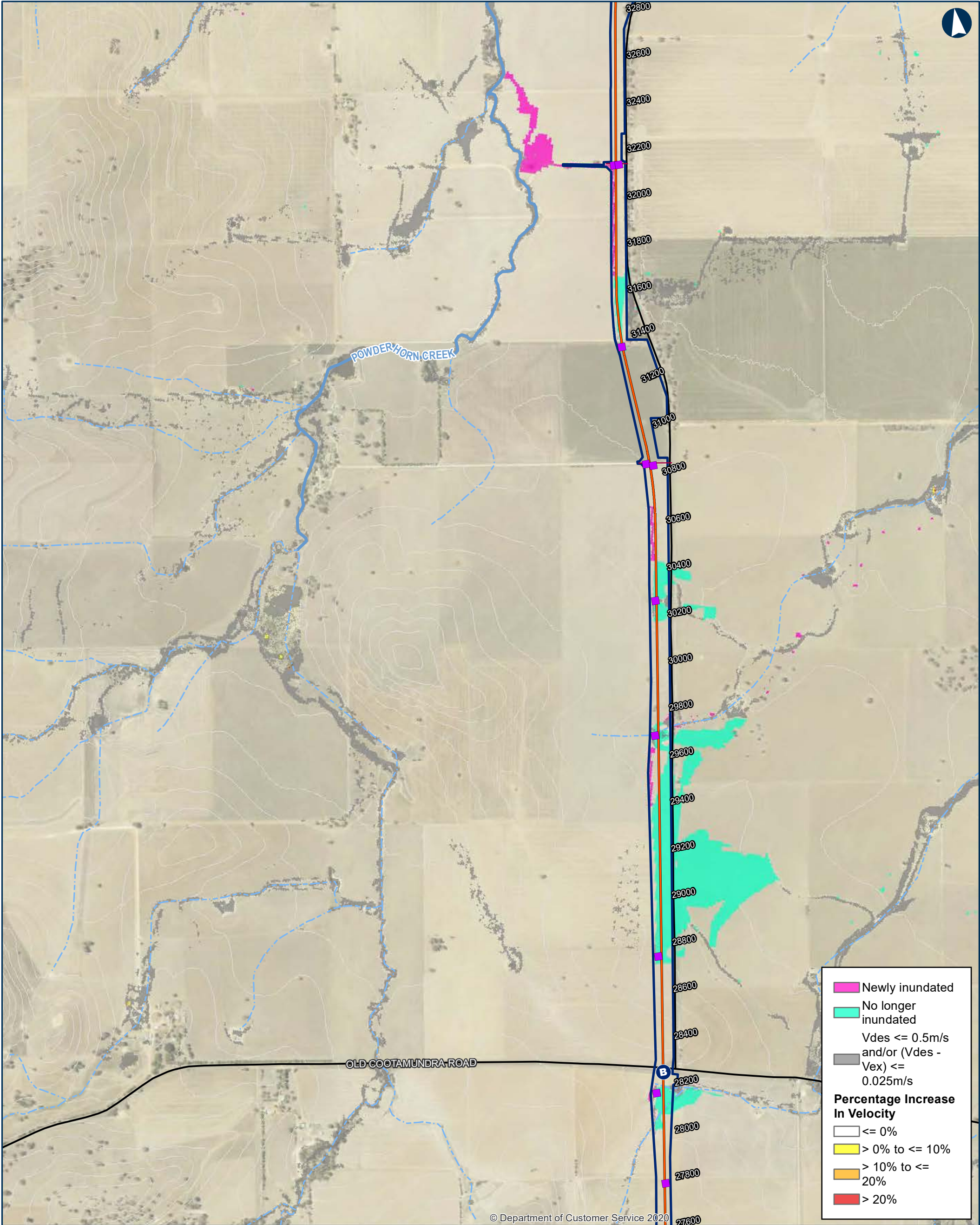
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

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Author: IRDJV

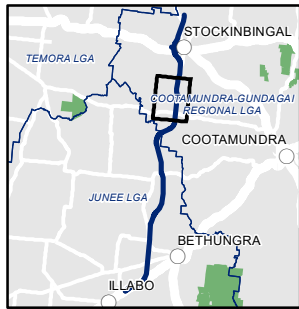
Paper: A3
Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

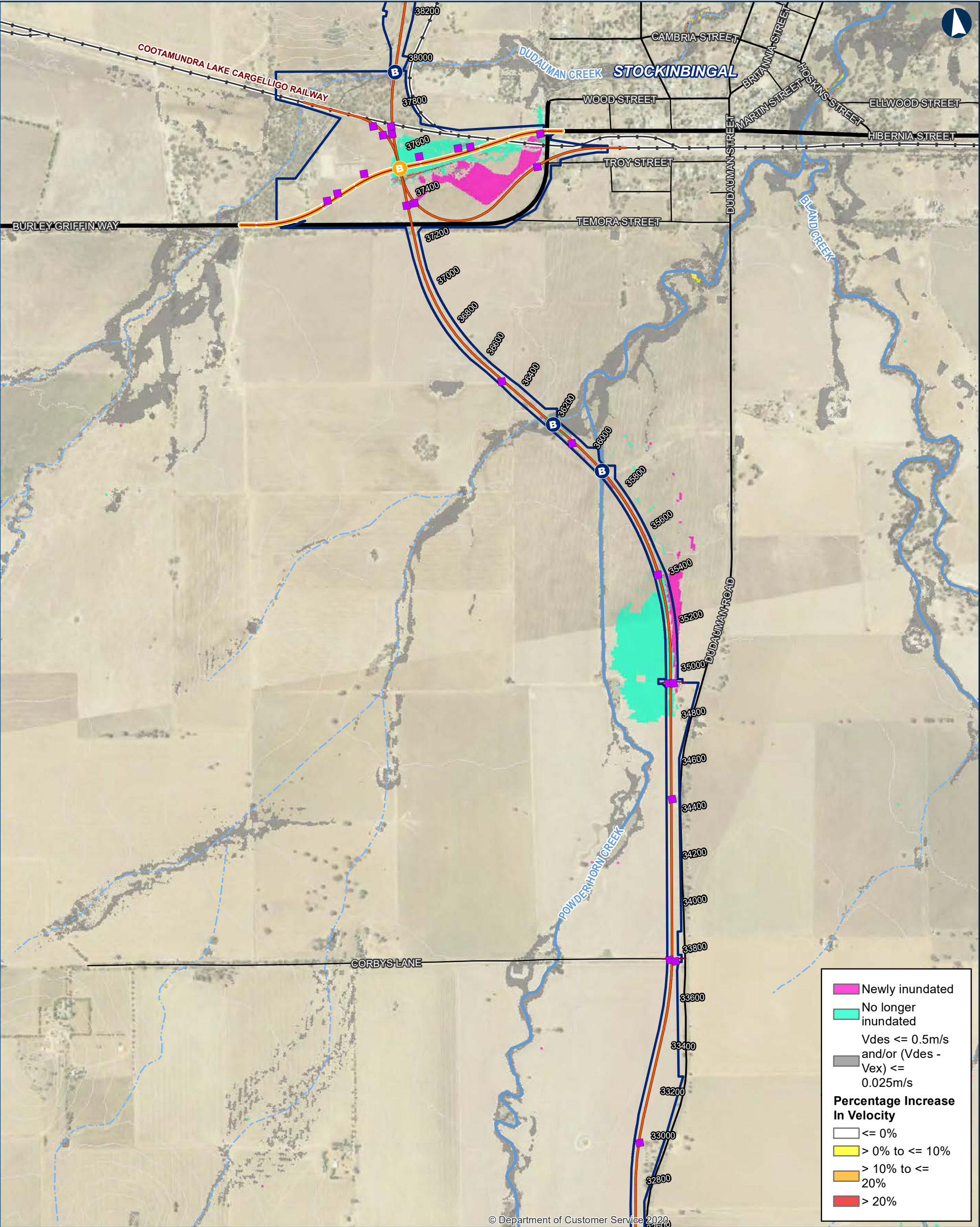
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

0 200 400 Metres

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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

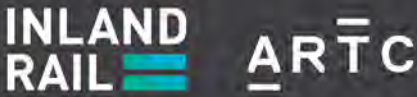
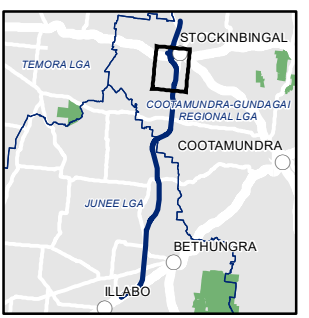
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

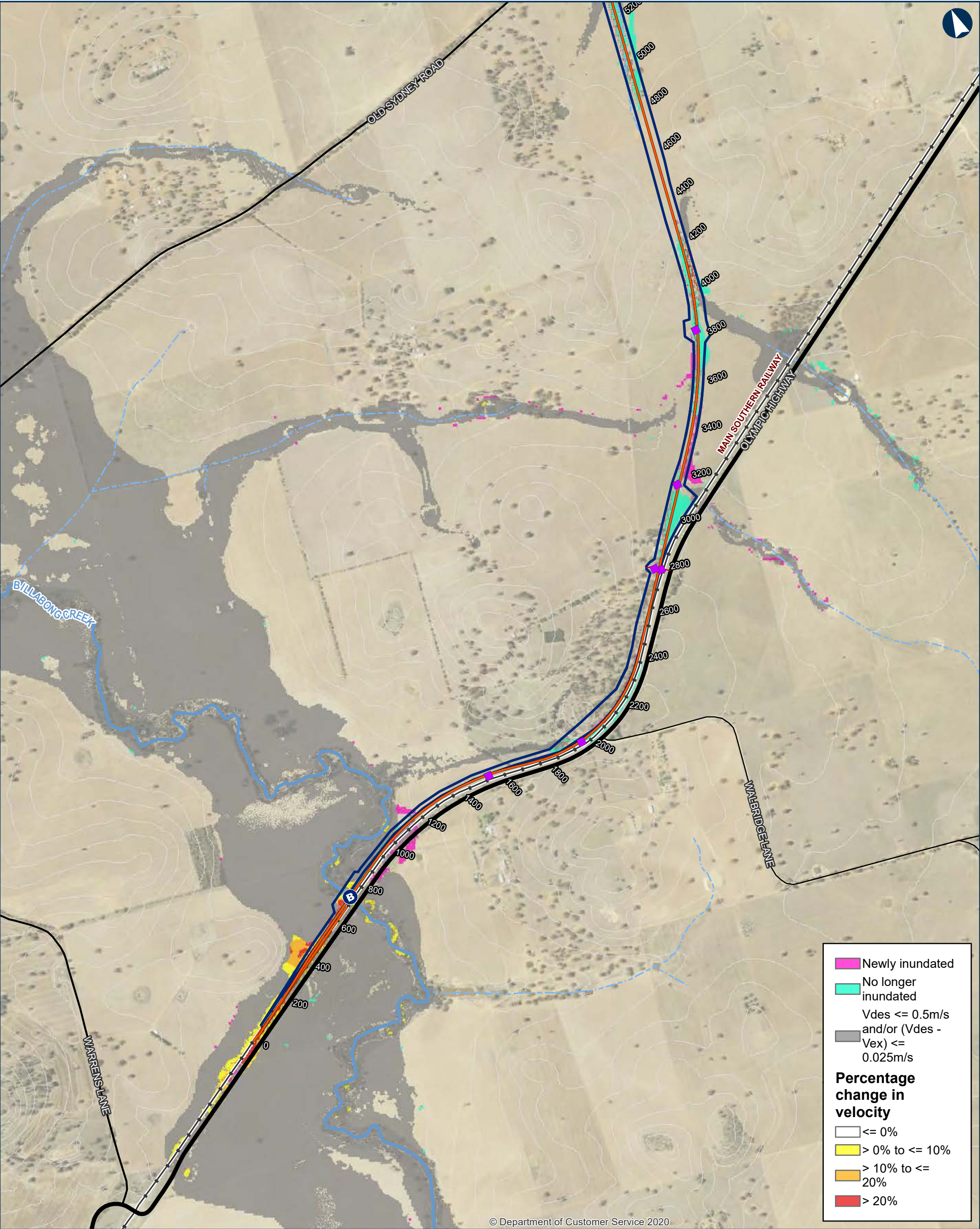
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

Map 1 of 9

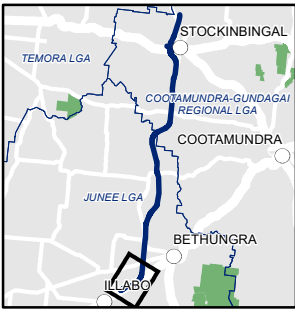
0 200 400 Metres

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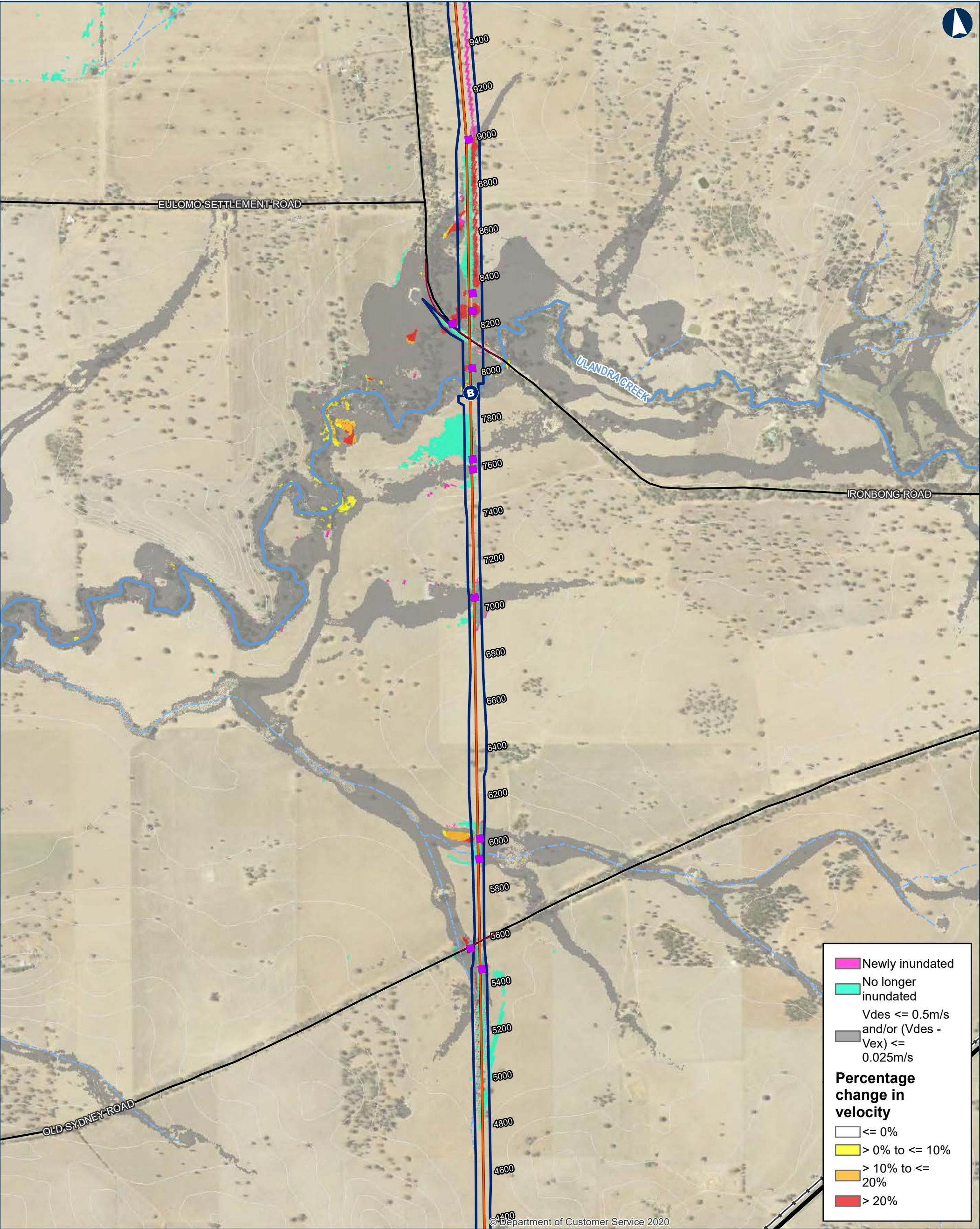
- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

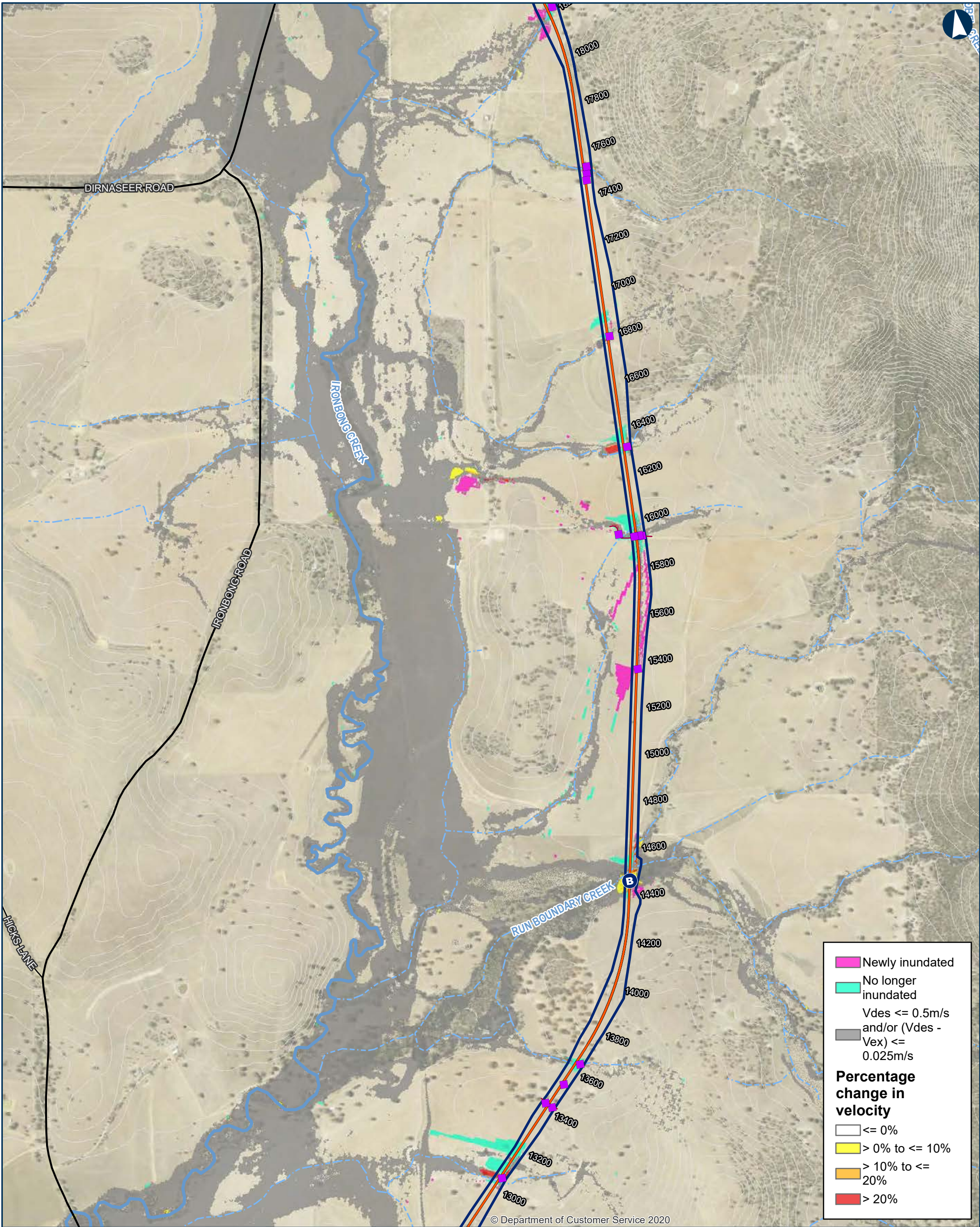
Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

B Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

B New track/track upgrade

B Overbridge

B Underbridge

B Culvert

5m Contours

Existing rail

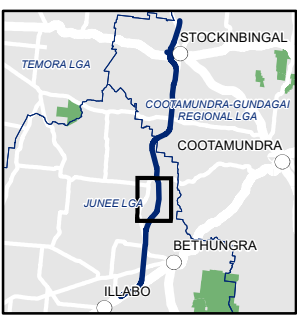
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

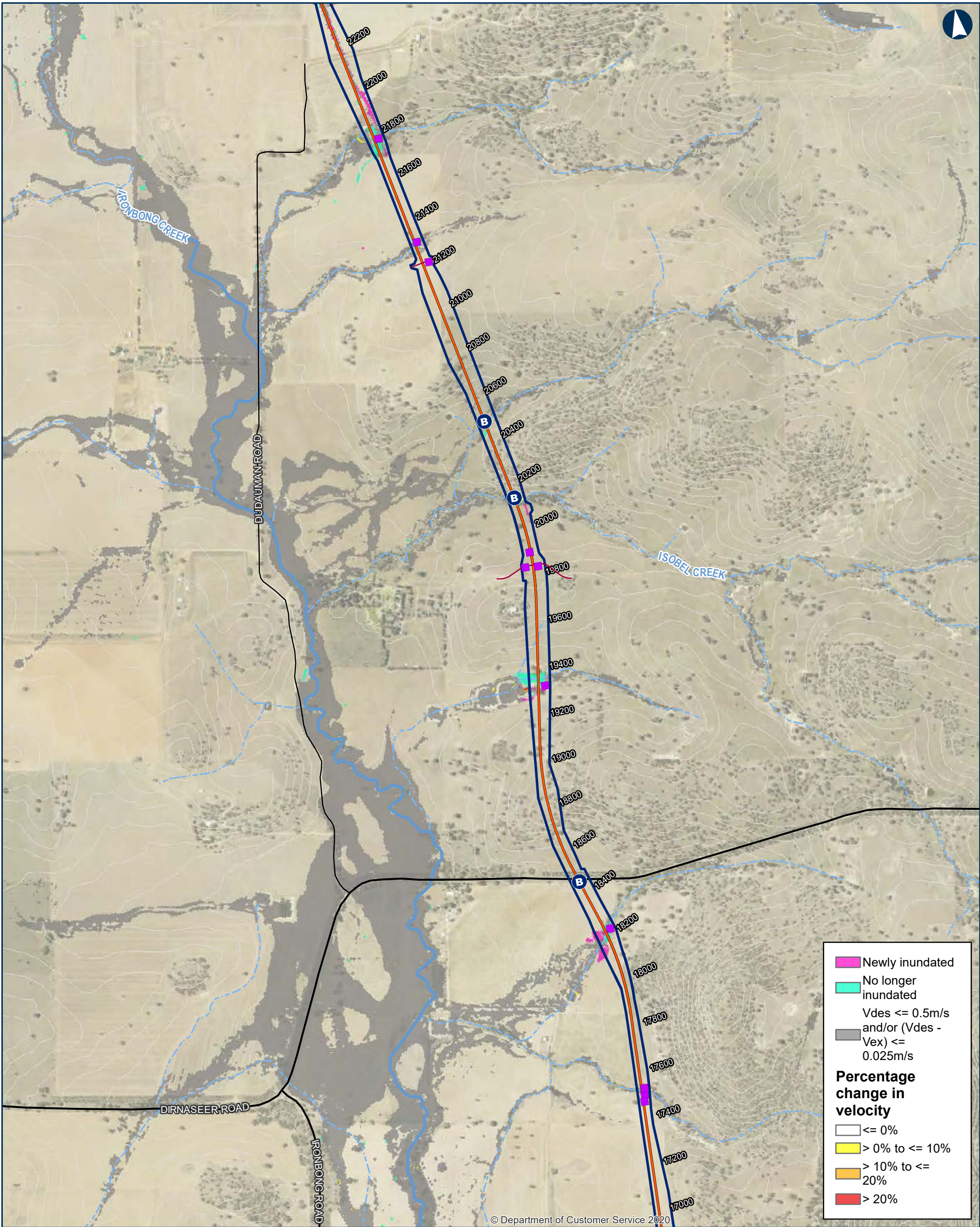
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

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Paper: A3
Scale: 1:15,000

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

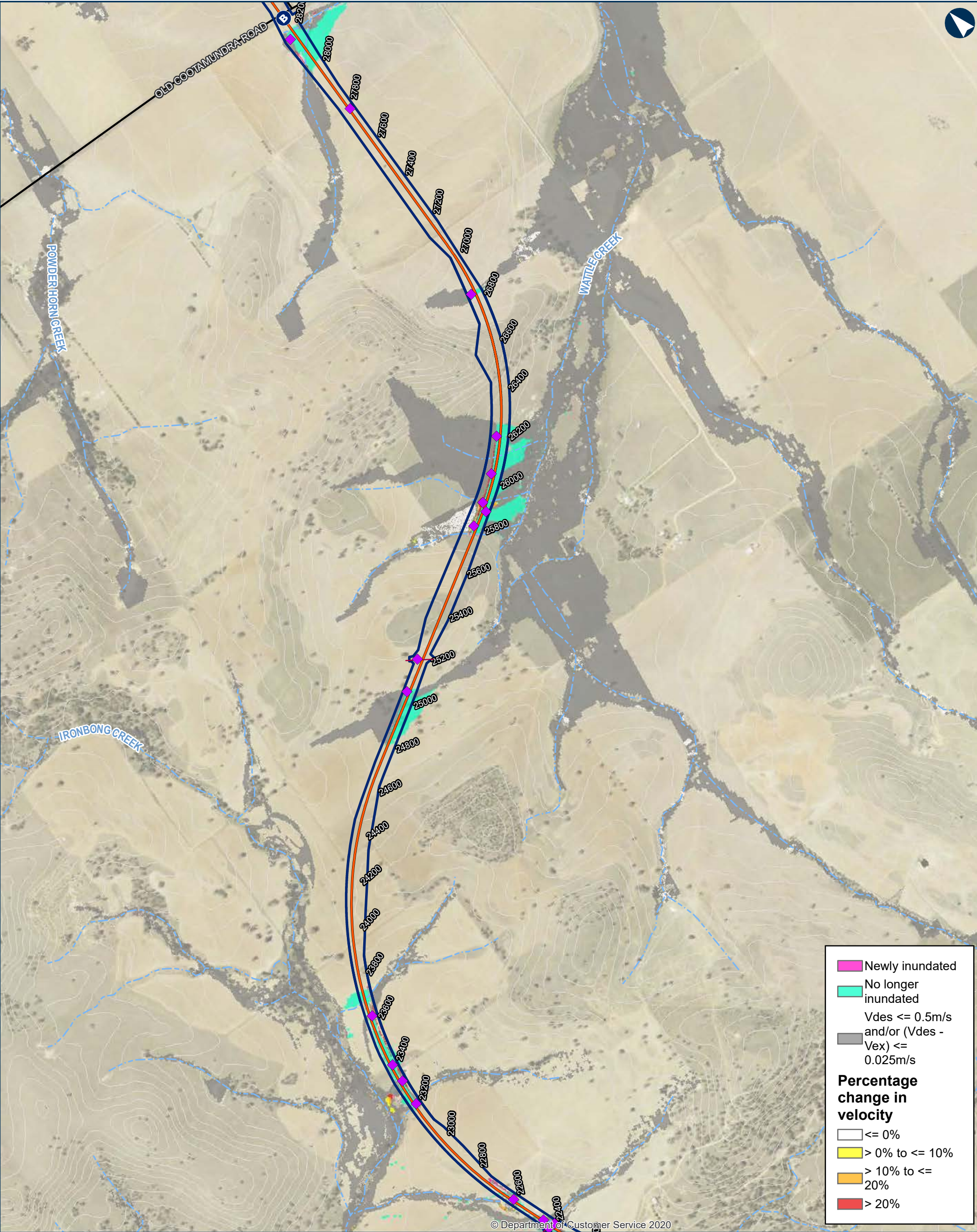
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

0200400Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

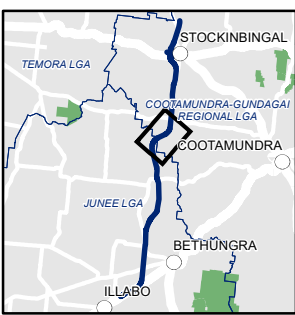
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

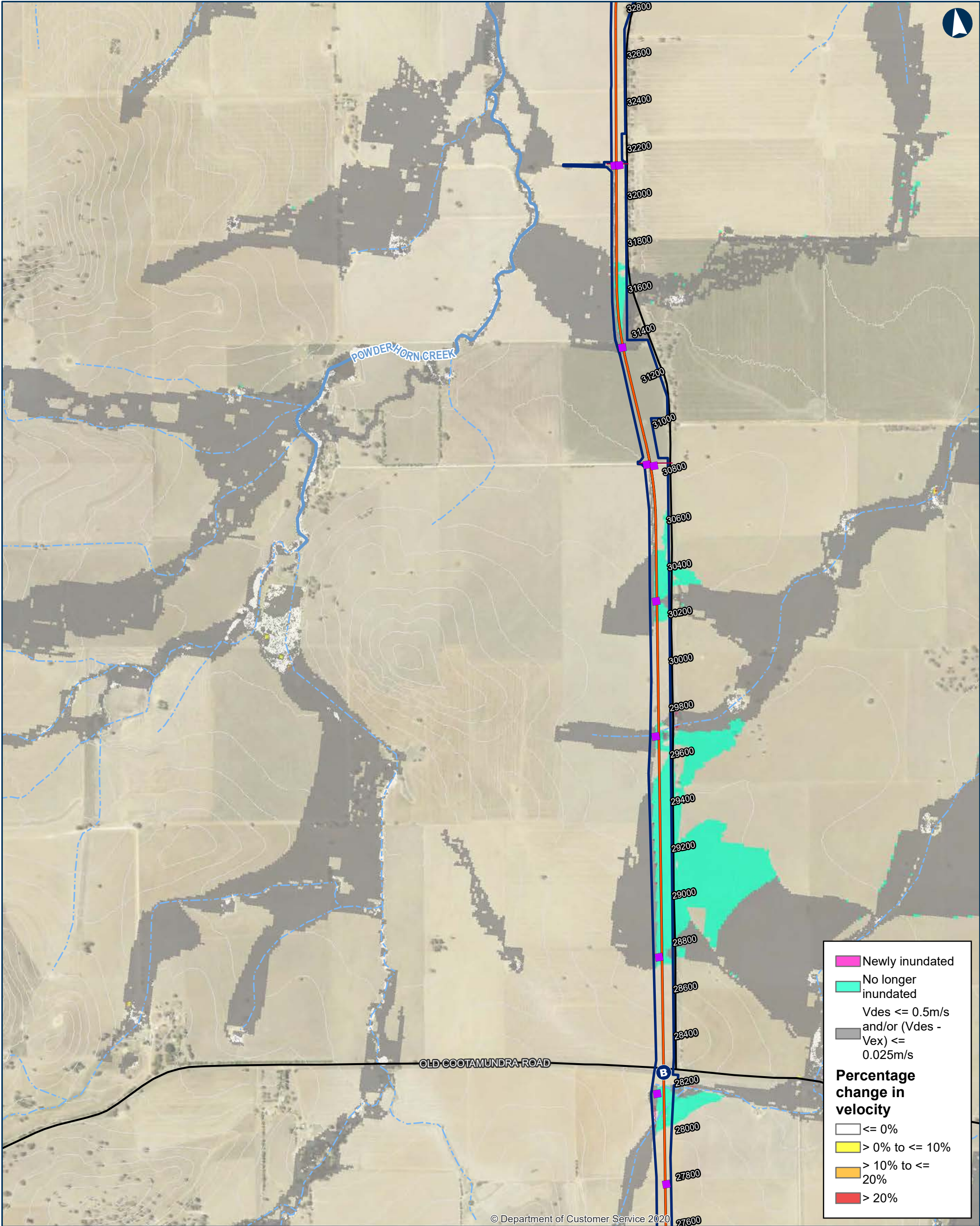
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

0 200 400 Metres

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40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

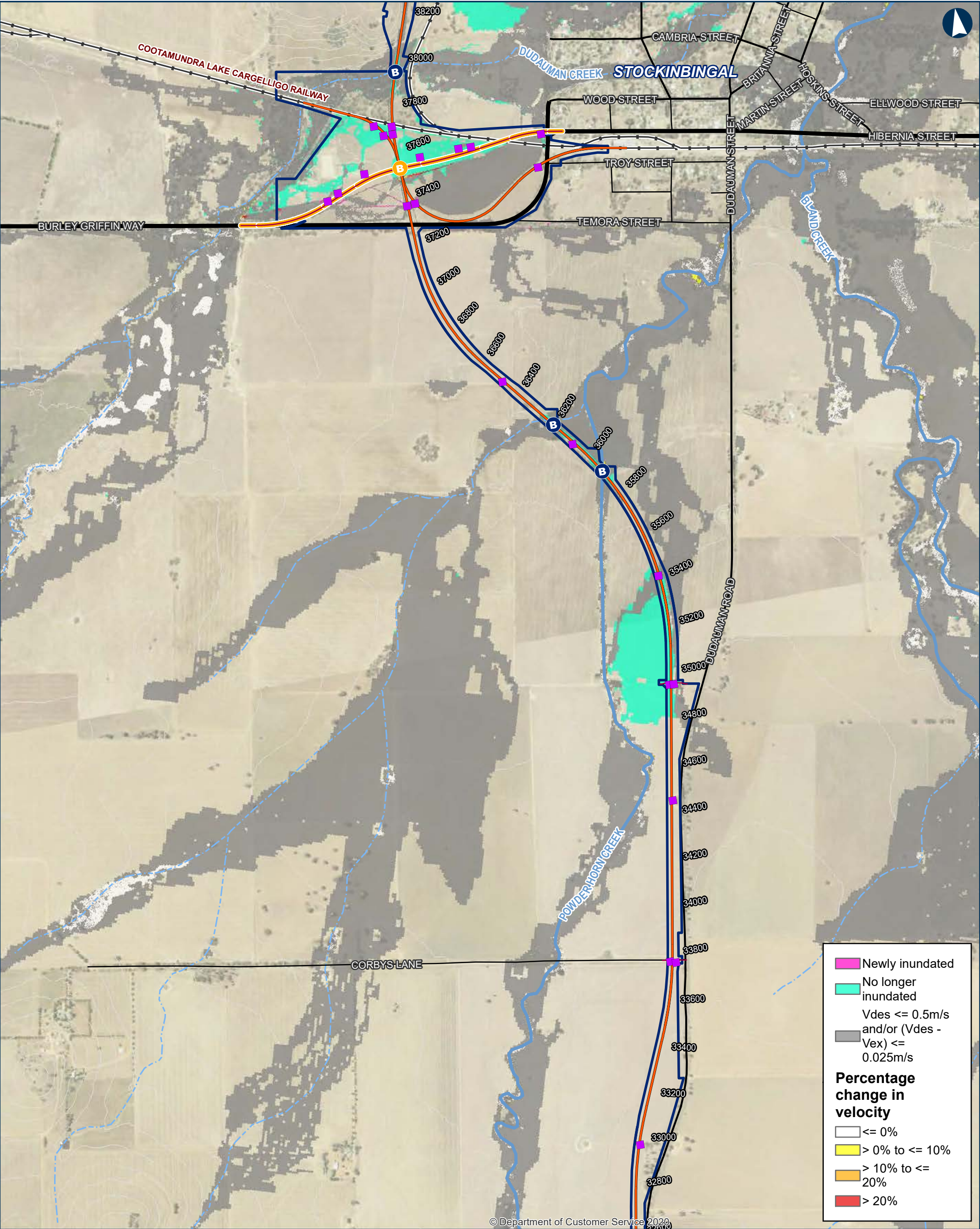
Local road

Sub-arterial road

Arterial road



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0200400Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

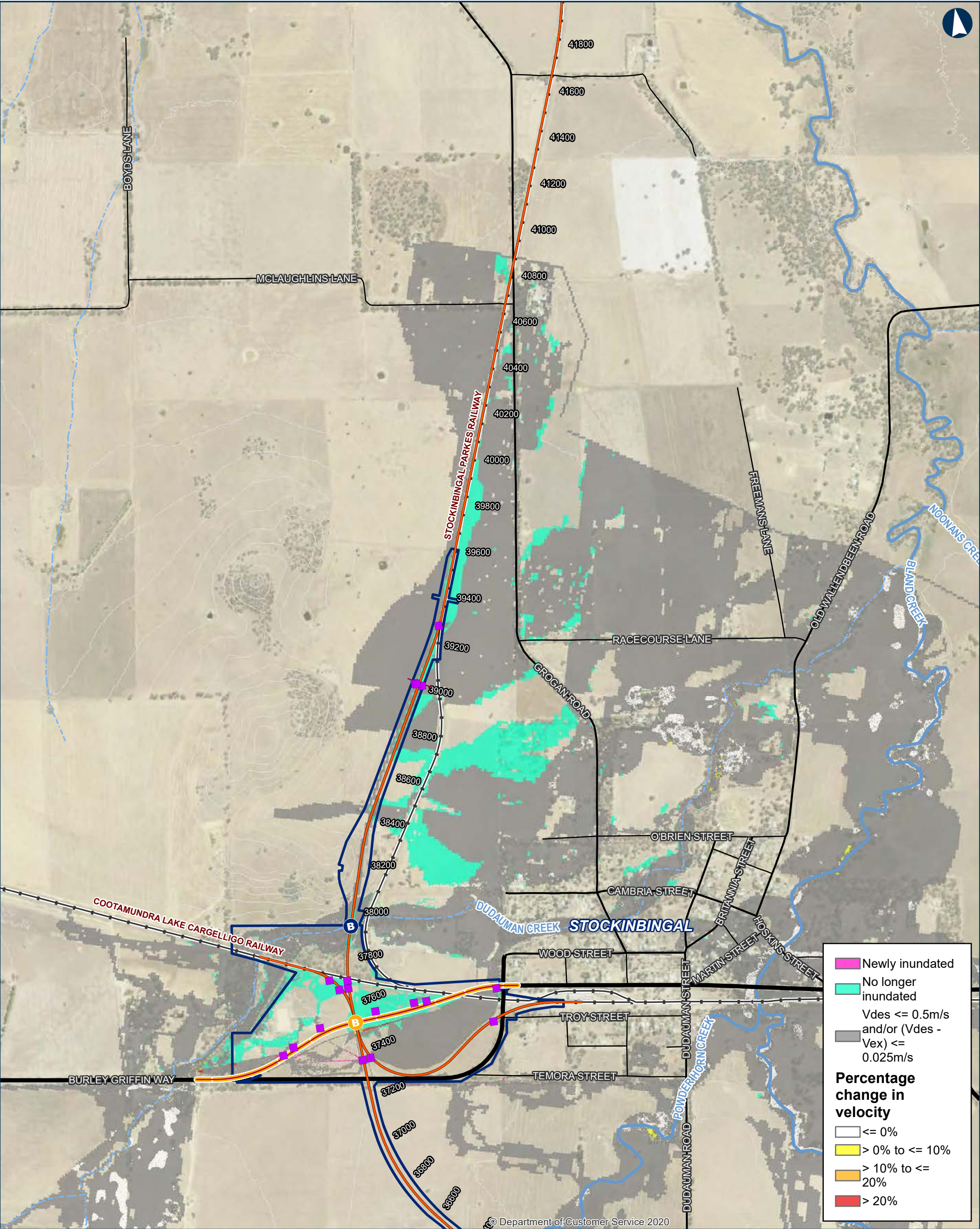
Map 8 of 9

INLAND RAIL

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\\corp.pbwan.net\ANZ\Projects\PS108286_Inland_Rail_Illab4_WIP\GIS\AWS\PS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\10AEP\220_0122_HYD_10AEPVelocityChange_v5.mxd



ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

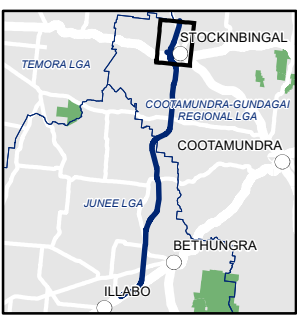
0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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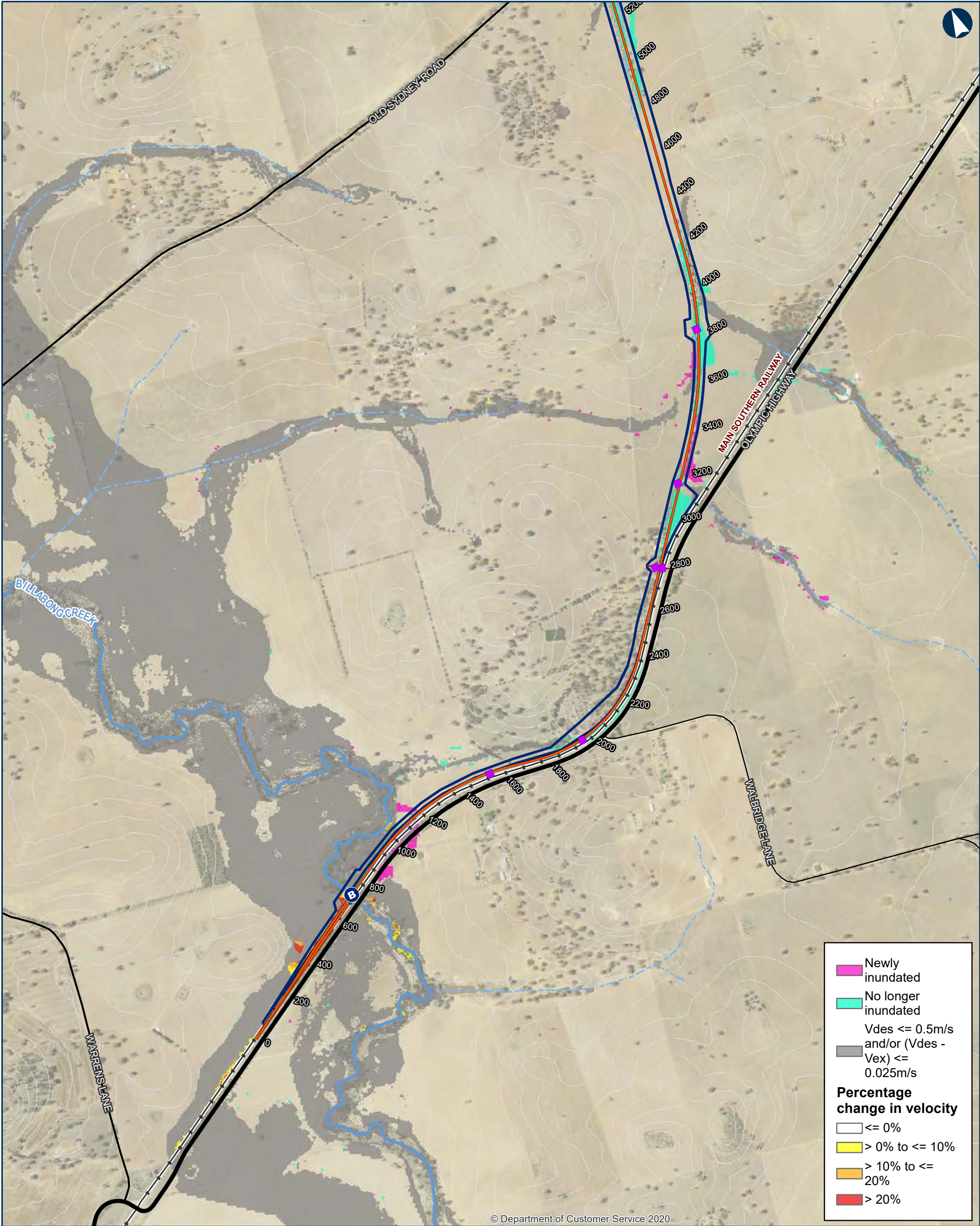
Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Burley Griffin Way realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

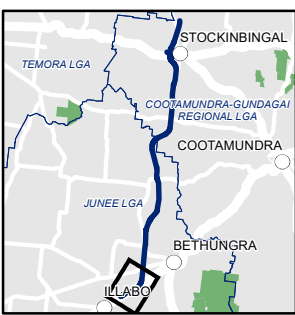
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

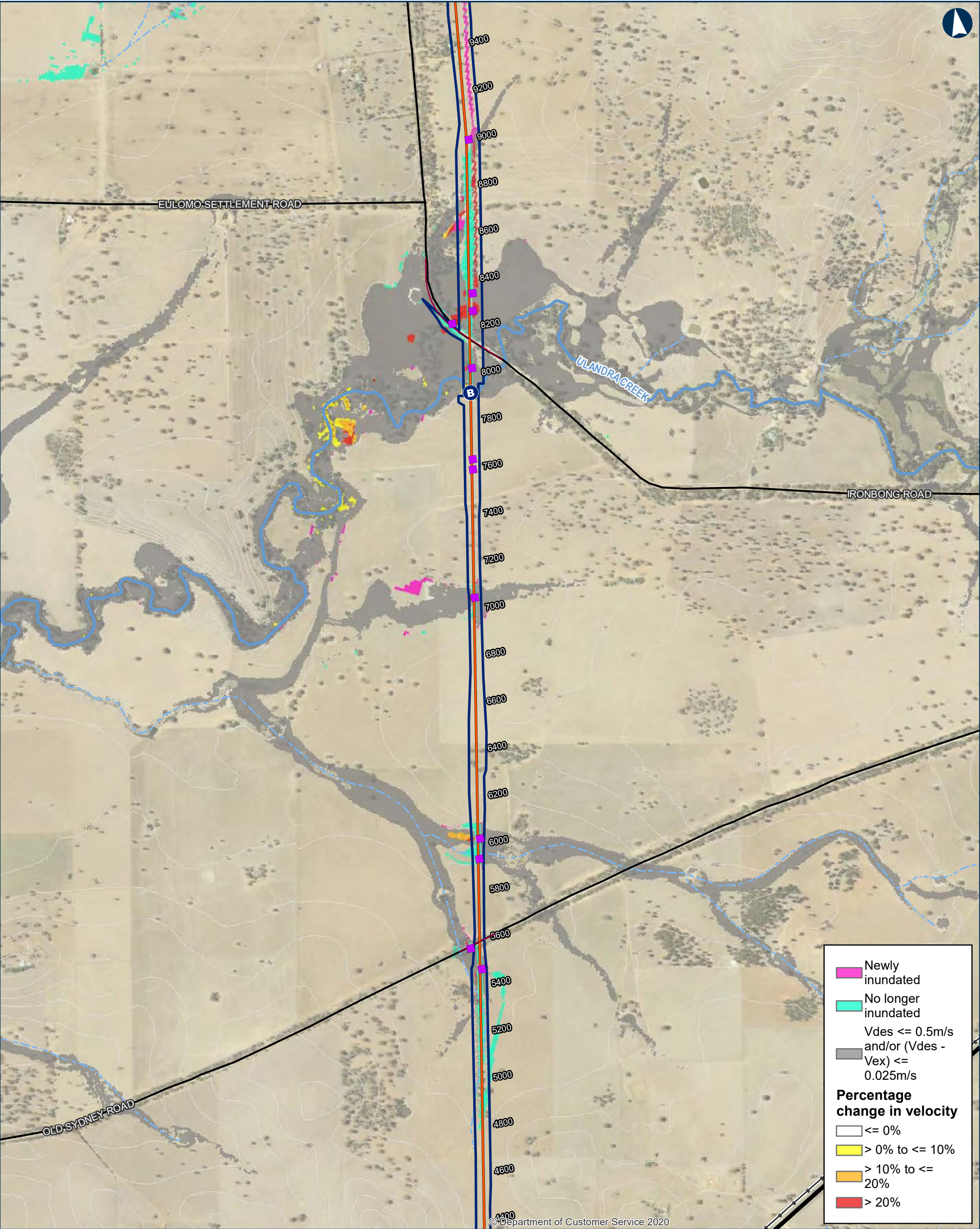
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

0200400Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

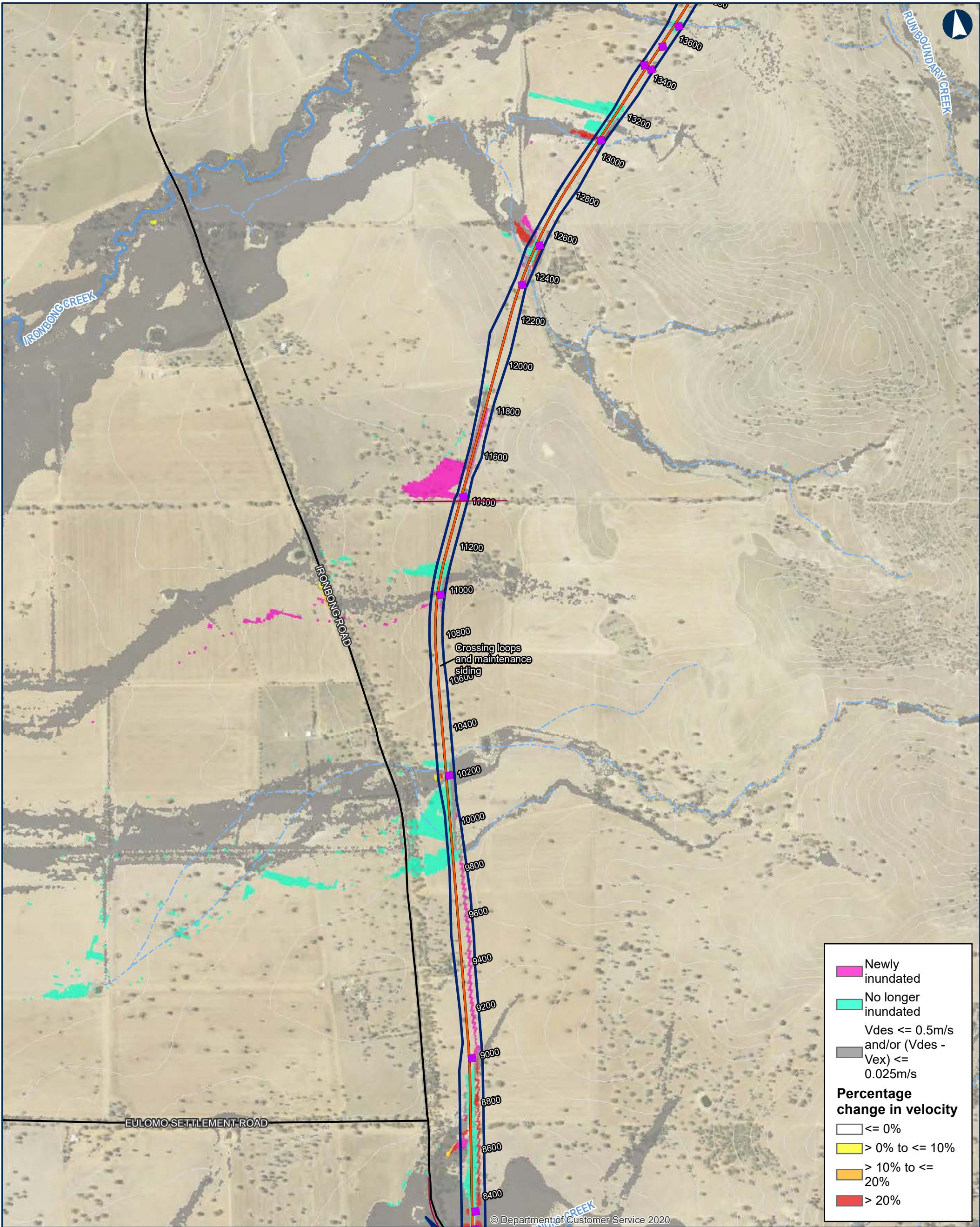
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINAL 5% AEP Percentage Change in Velocity

0 200 400 Metres

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Permanent acquisition boundary

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40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

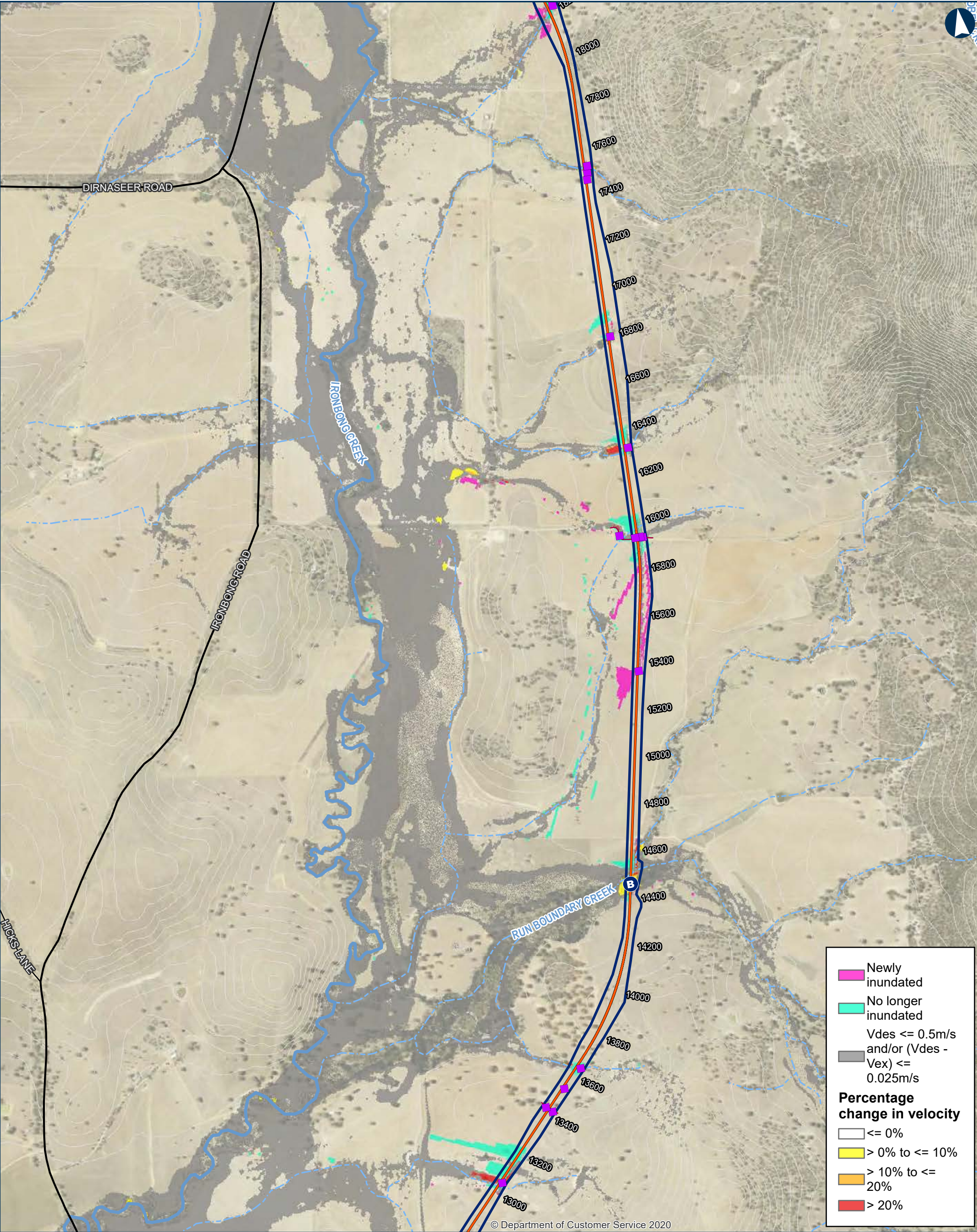
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

0200400Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

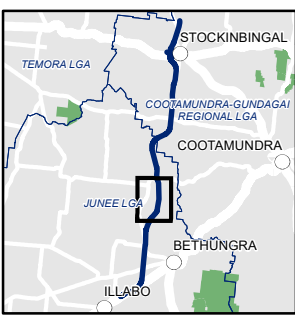
Local road

—

Sub-arterial road

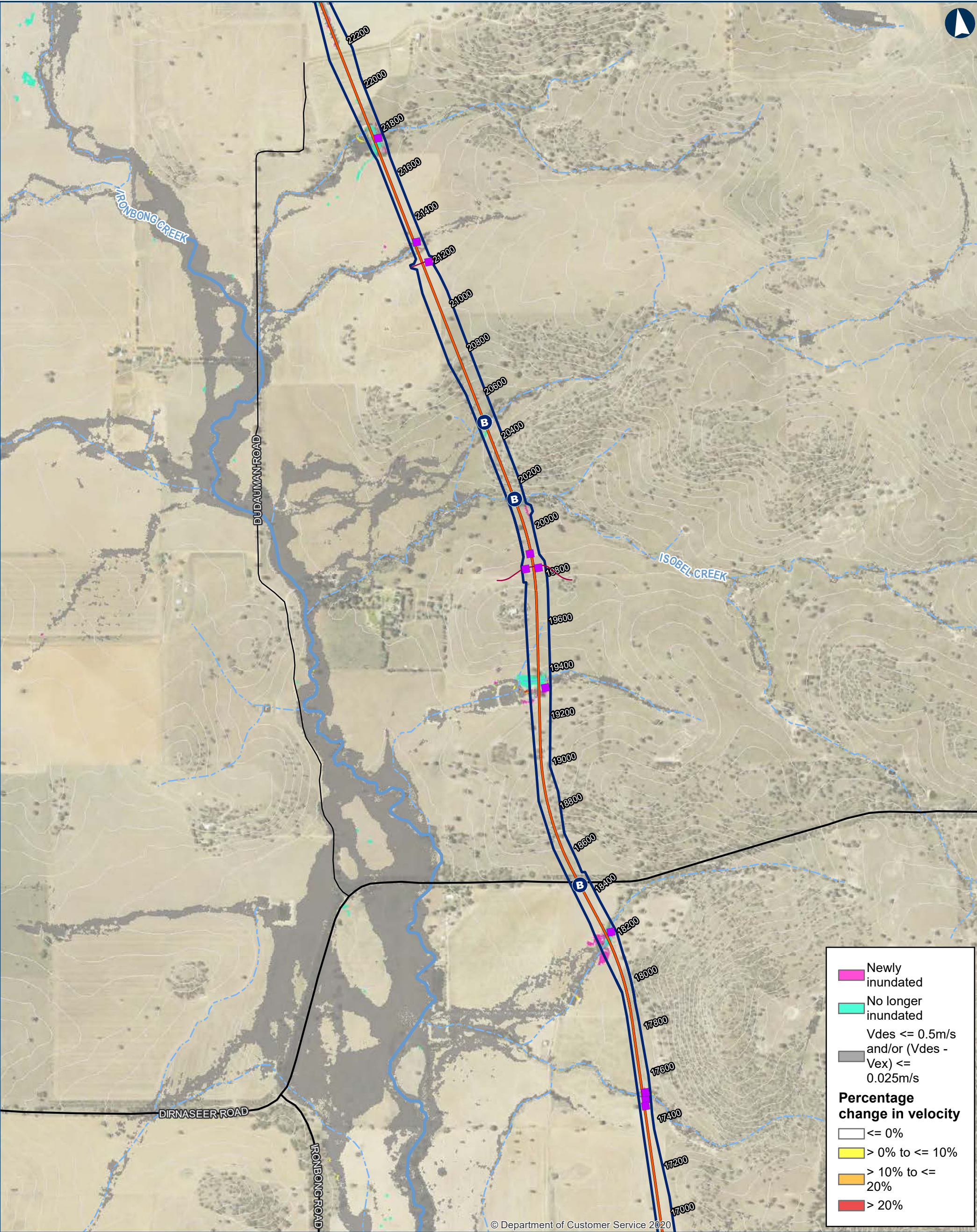
—

Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

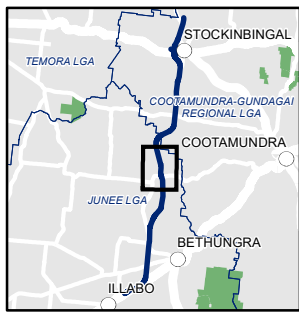
Coordinate System: GDA 1994 MGA Zone 55
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Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Overbridge

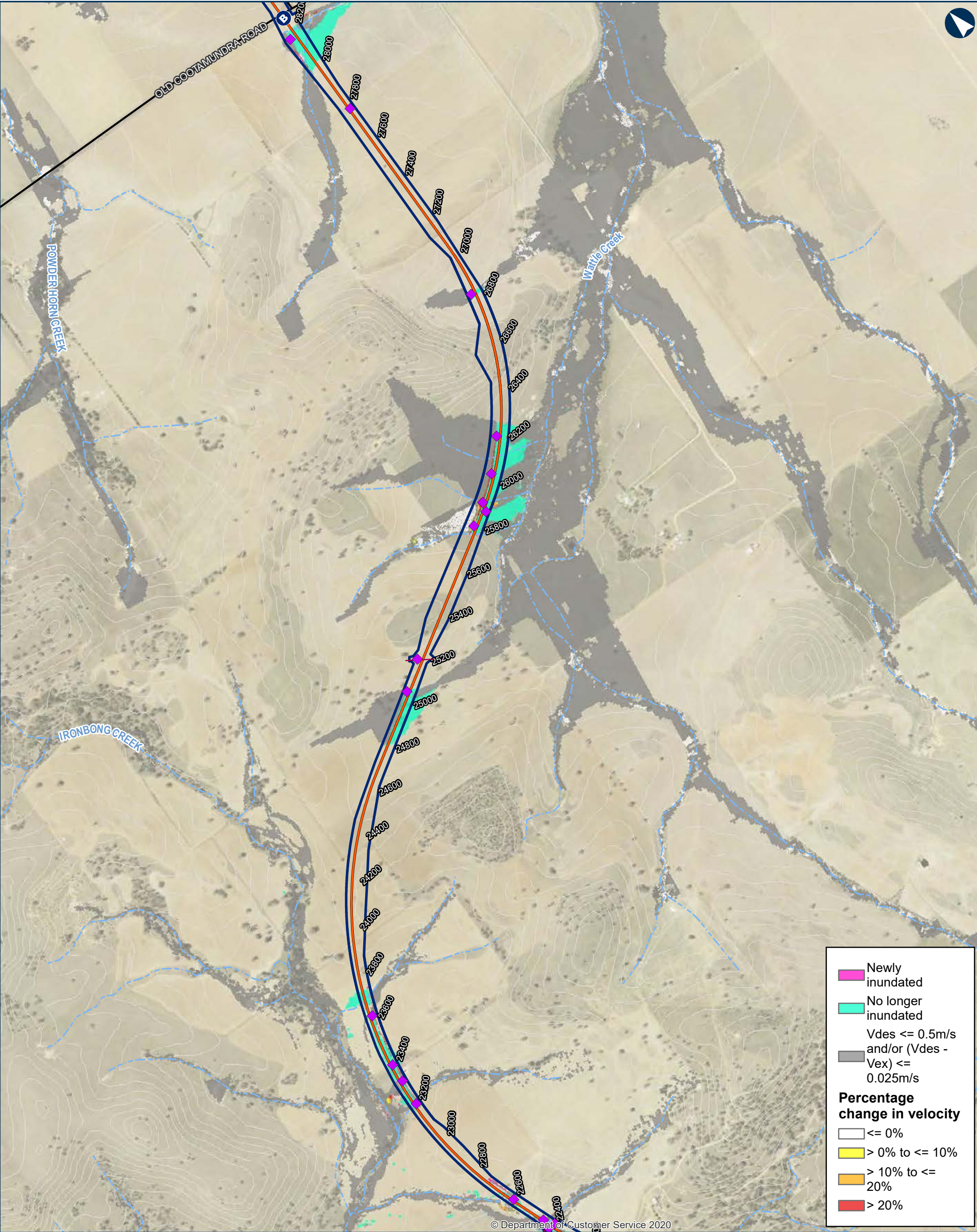
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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



Newly inundated

No longer inundated

$V_{des} \leq 0.5\text{m/s}$
and/or $(V_{des} - V_{ex}) \leq 0.025\text{m/s}$

Percentage change in velocity

$\leq 0\%$

$> 0\%$ to $\leq 10\%$

$> 10\%$ to $\leq 20\%$

$> 20\%$

ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

Map 6 of 9

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

TEMORA LGA

STOCKINBINGAL

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

JUNEE LGA

BETHUNGRA

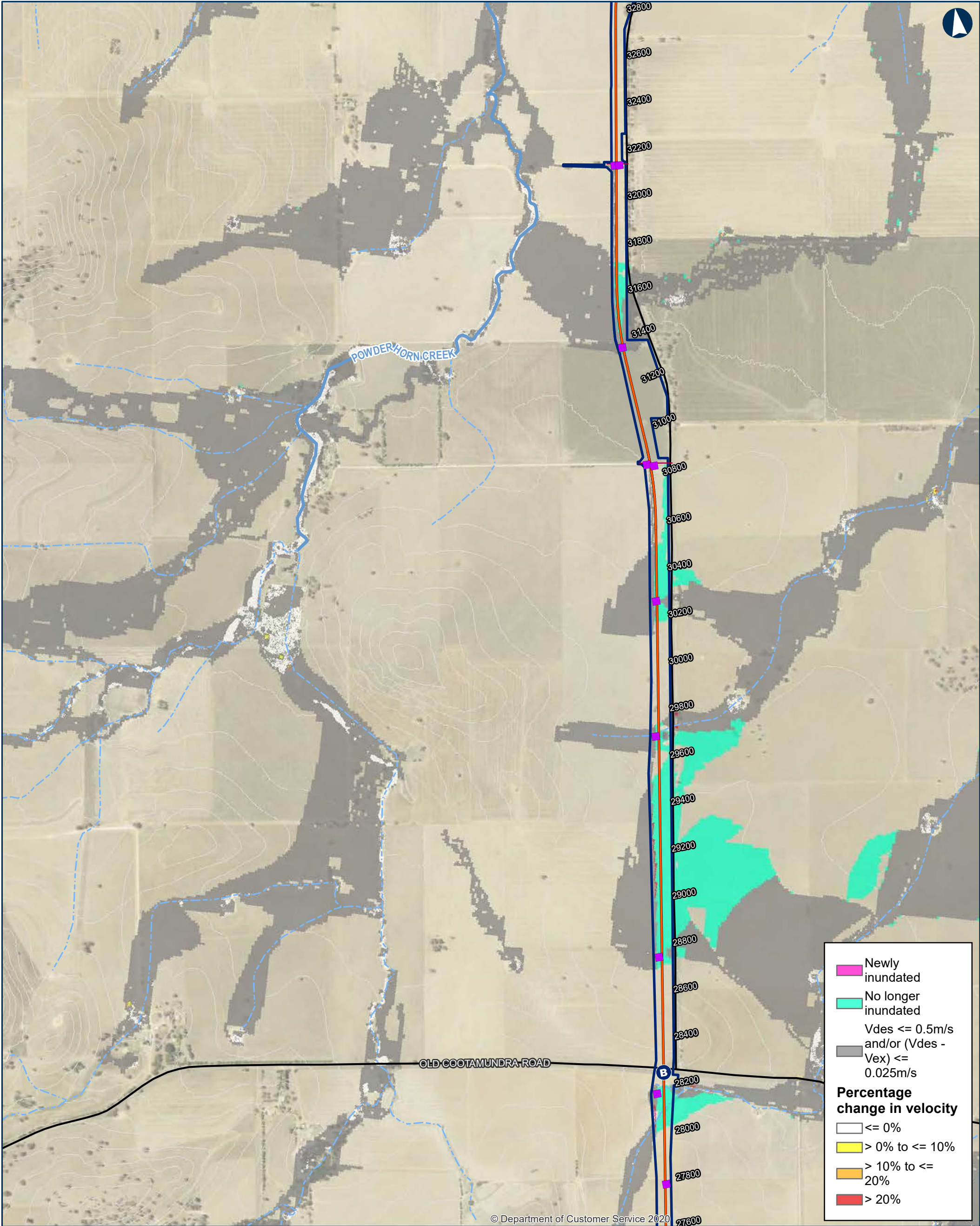
ILLABO

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\5AEP\220_0122_HYD_5AEPVelocityChange_v5.mxd



ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

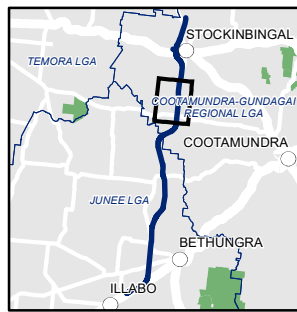
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

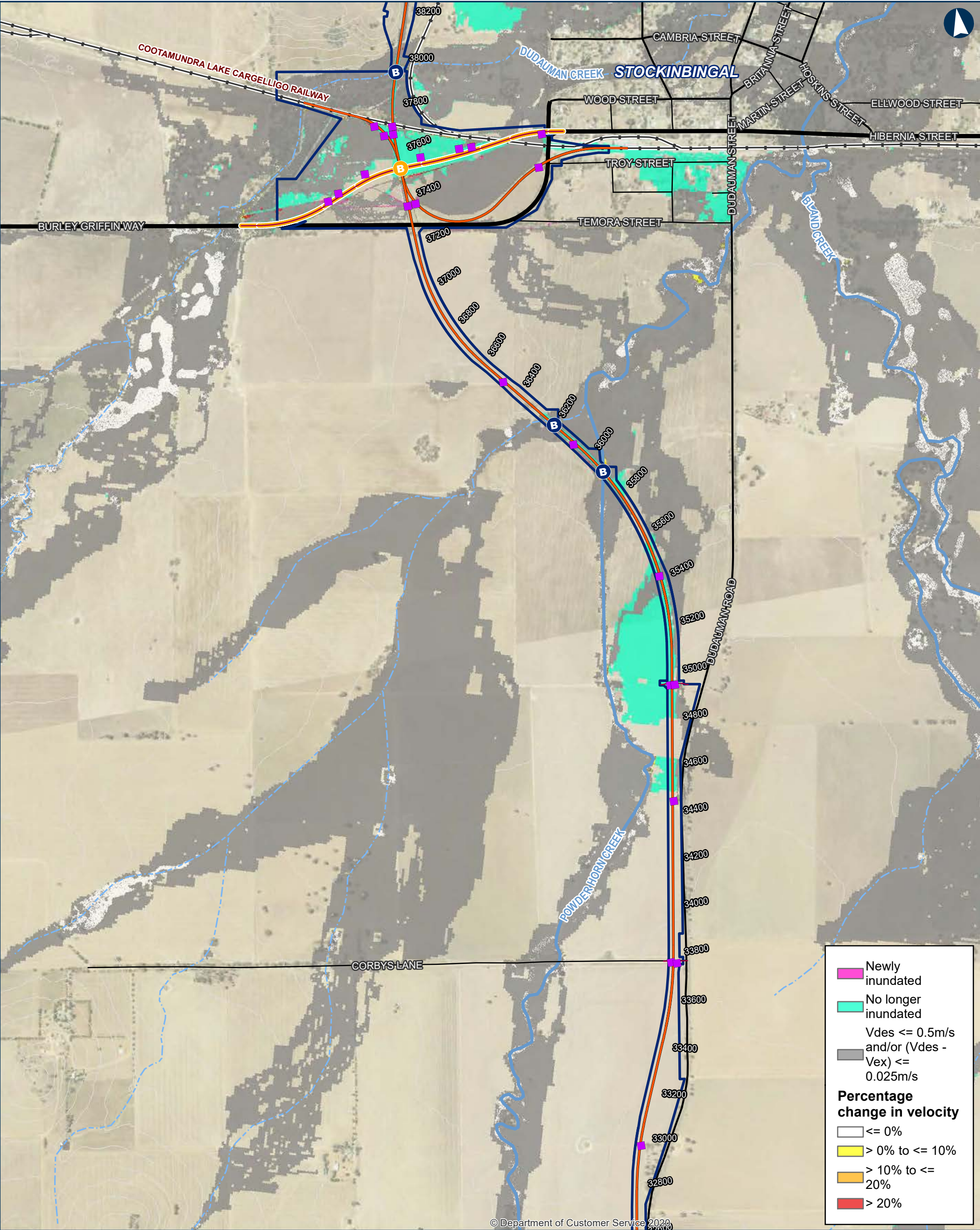
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 23/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

ILLABO

STOCKINBINGAL

TEMORA LGA

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

BETHUNGRA

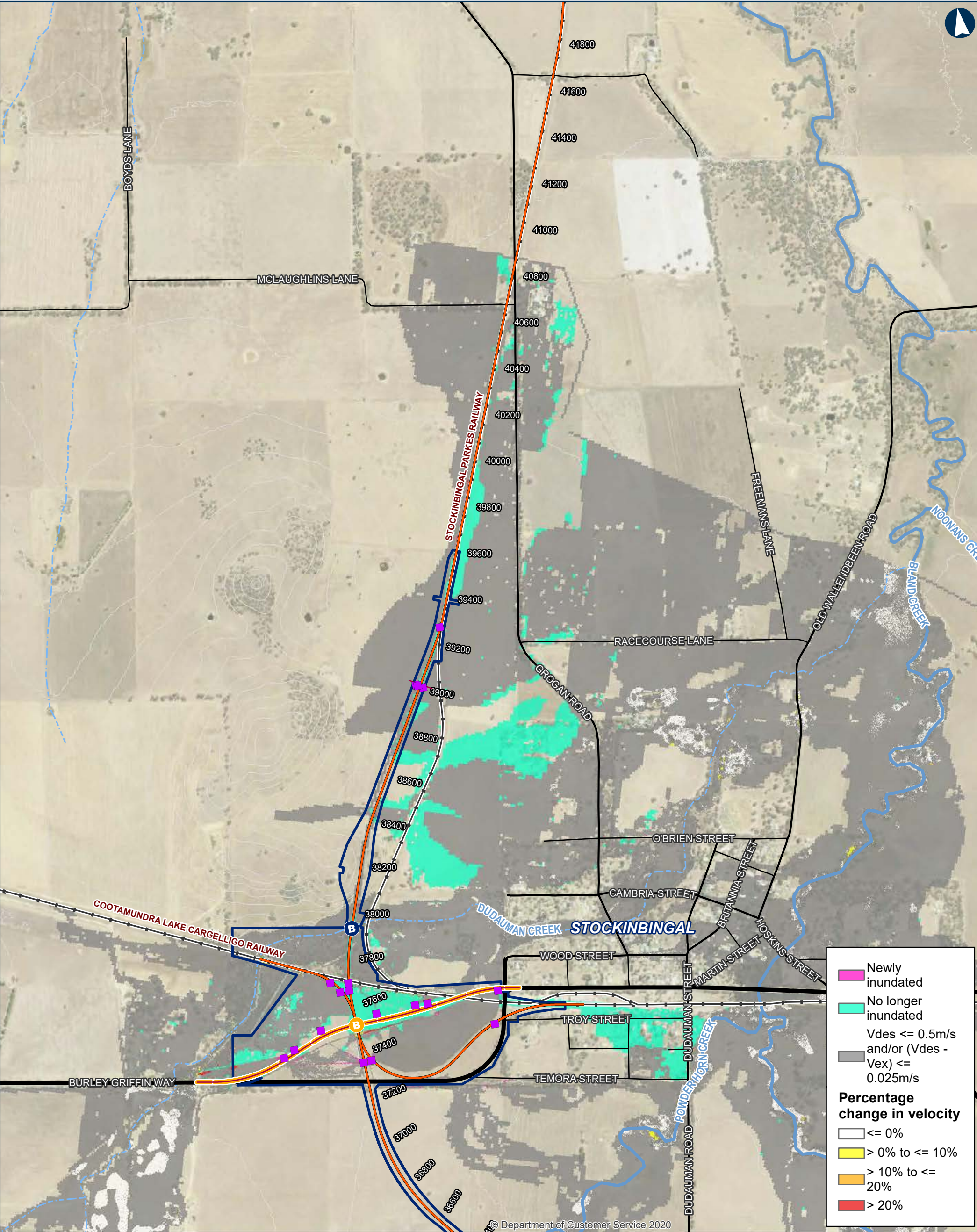
JUNEE LGA

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\5AEP\220_0122_HYD_5AEPVelocityChange_v5.mxd



ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

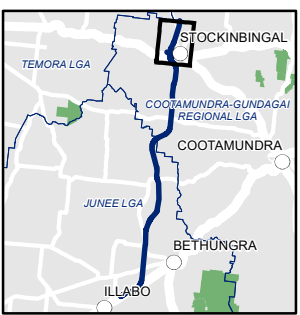
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

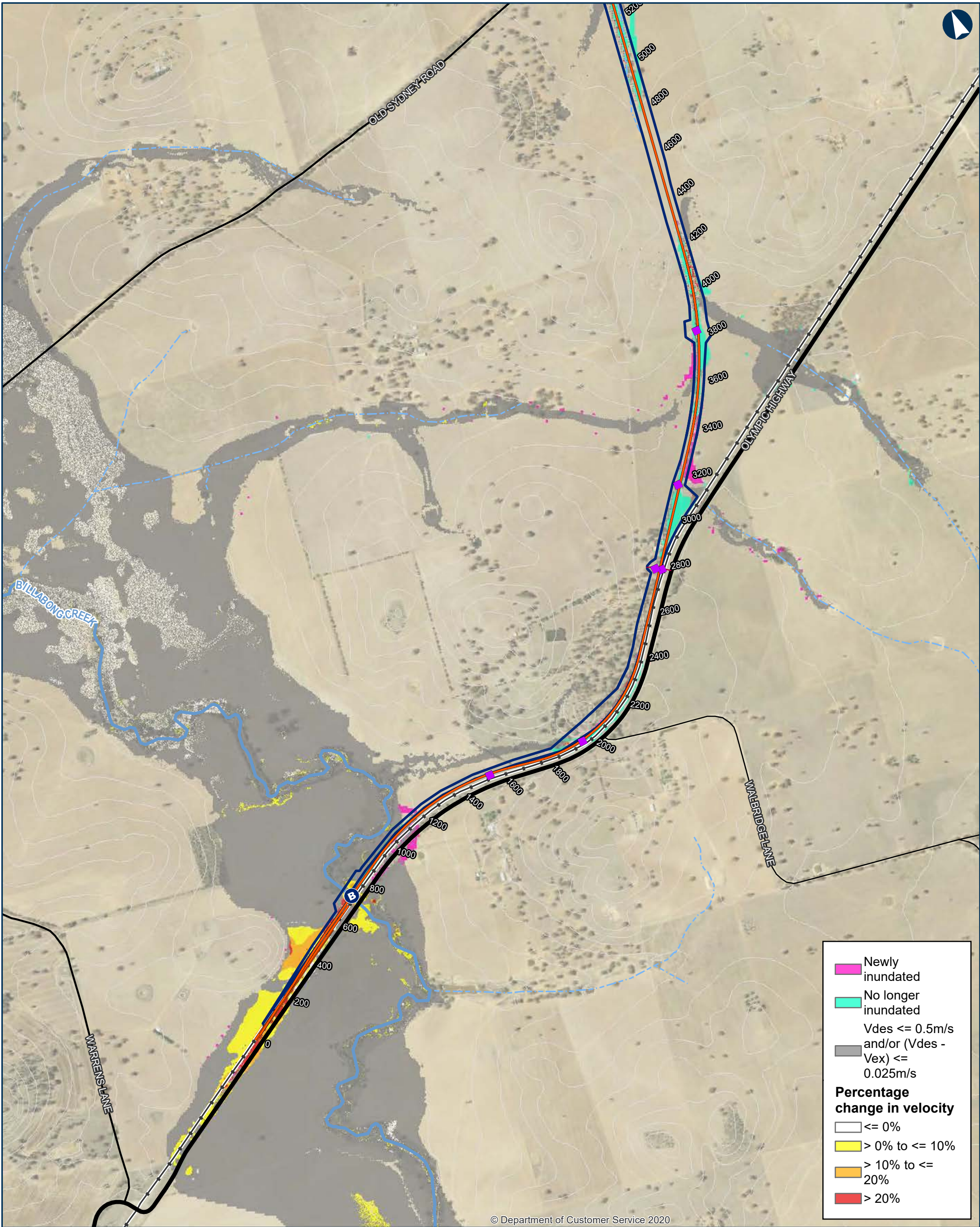
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3

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Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

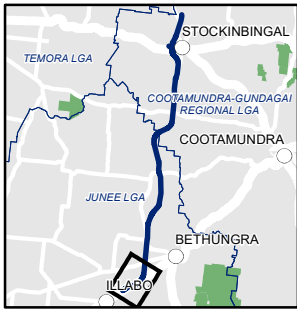
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

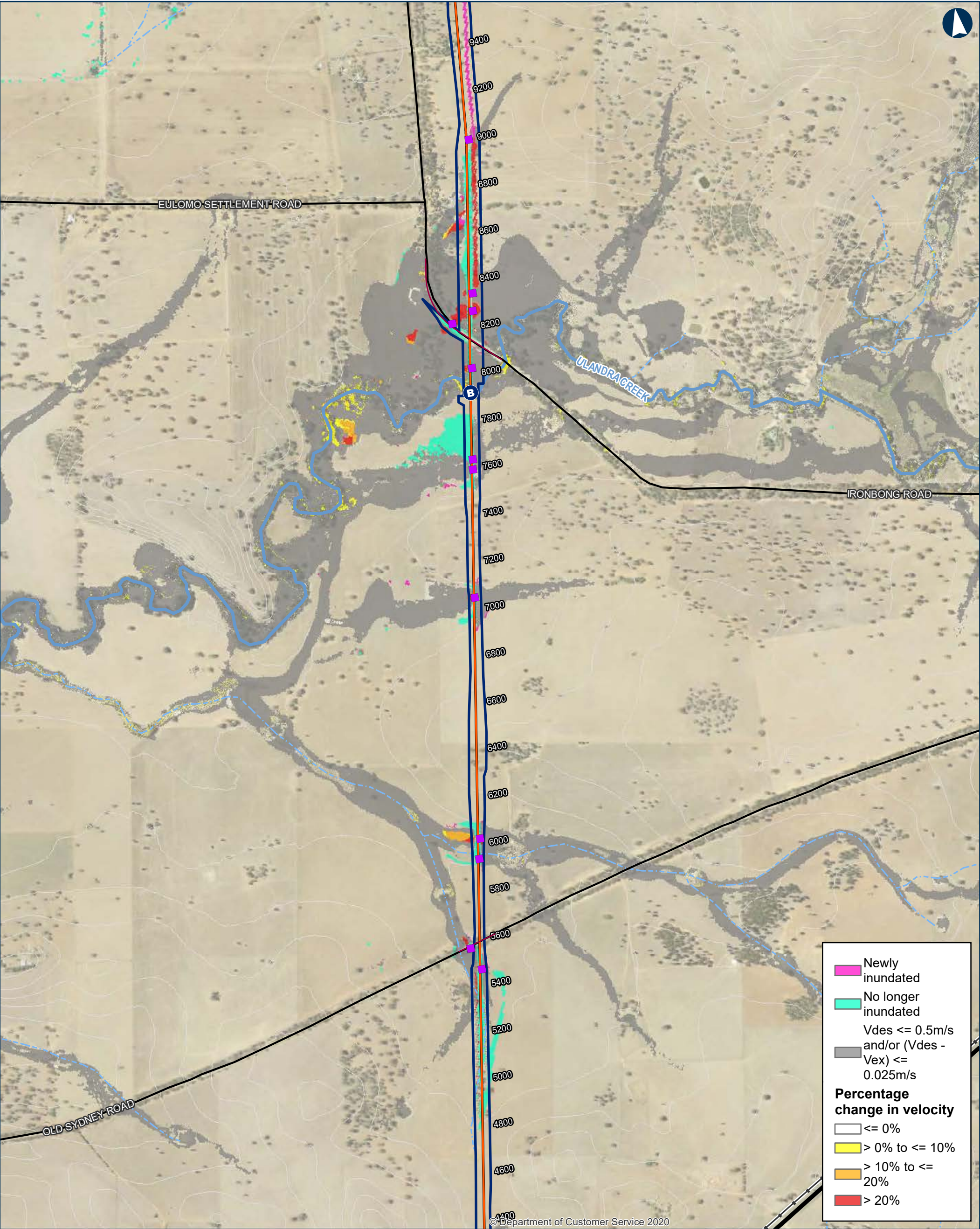
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

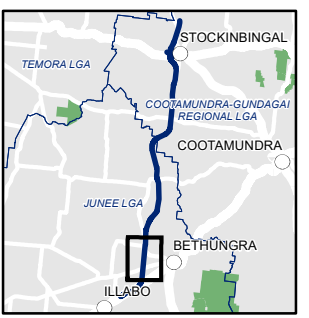
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

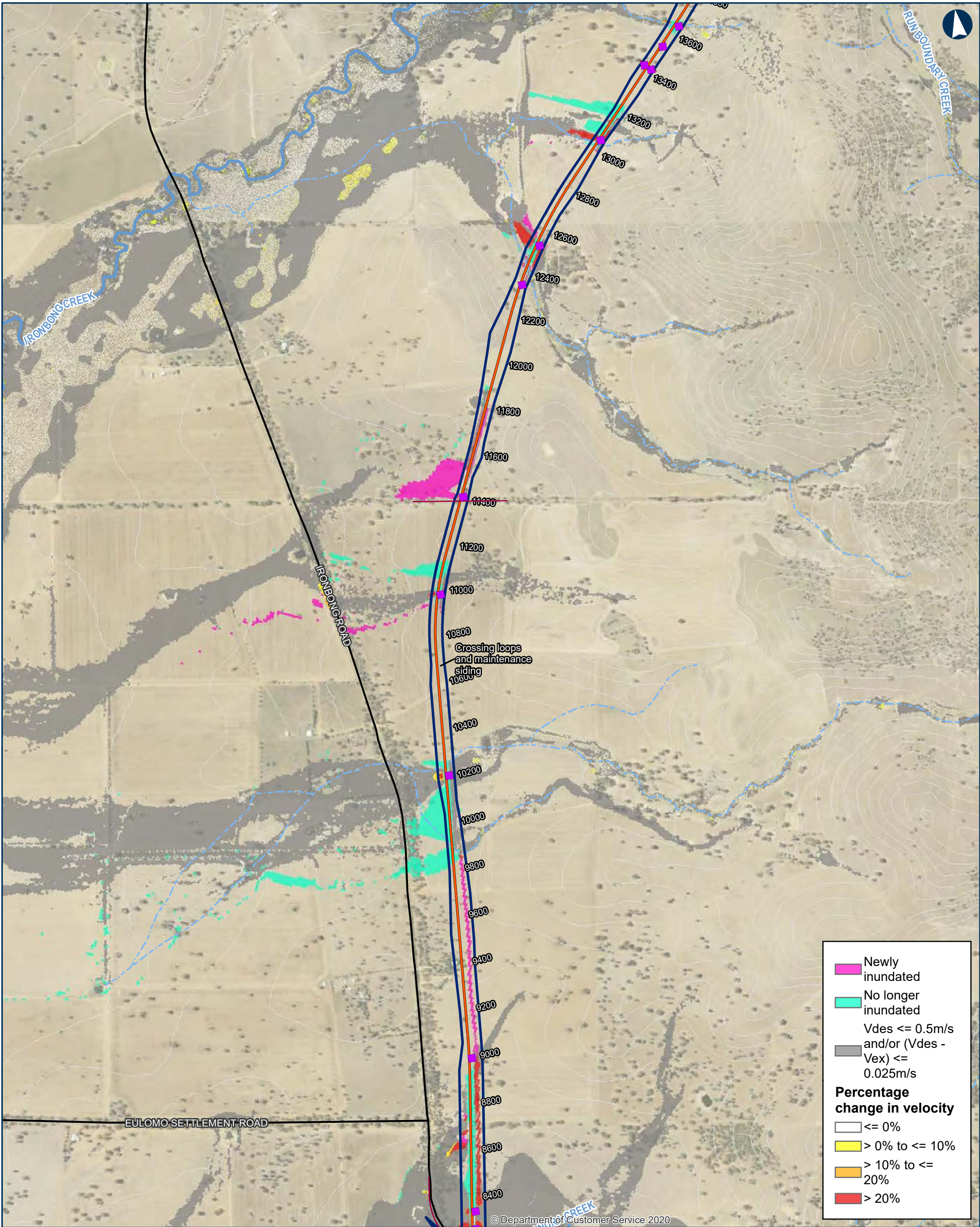
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

Map 3 of 9

0 200 400
Metres

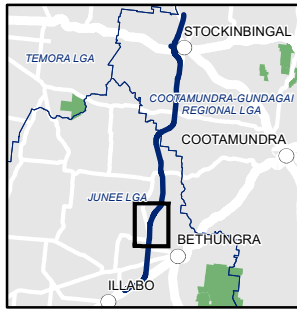
Coordinate System: GDA 1994 MGA Zone 55

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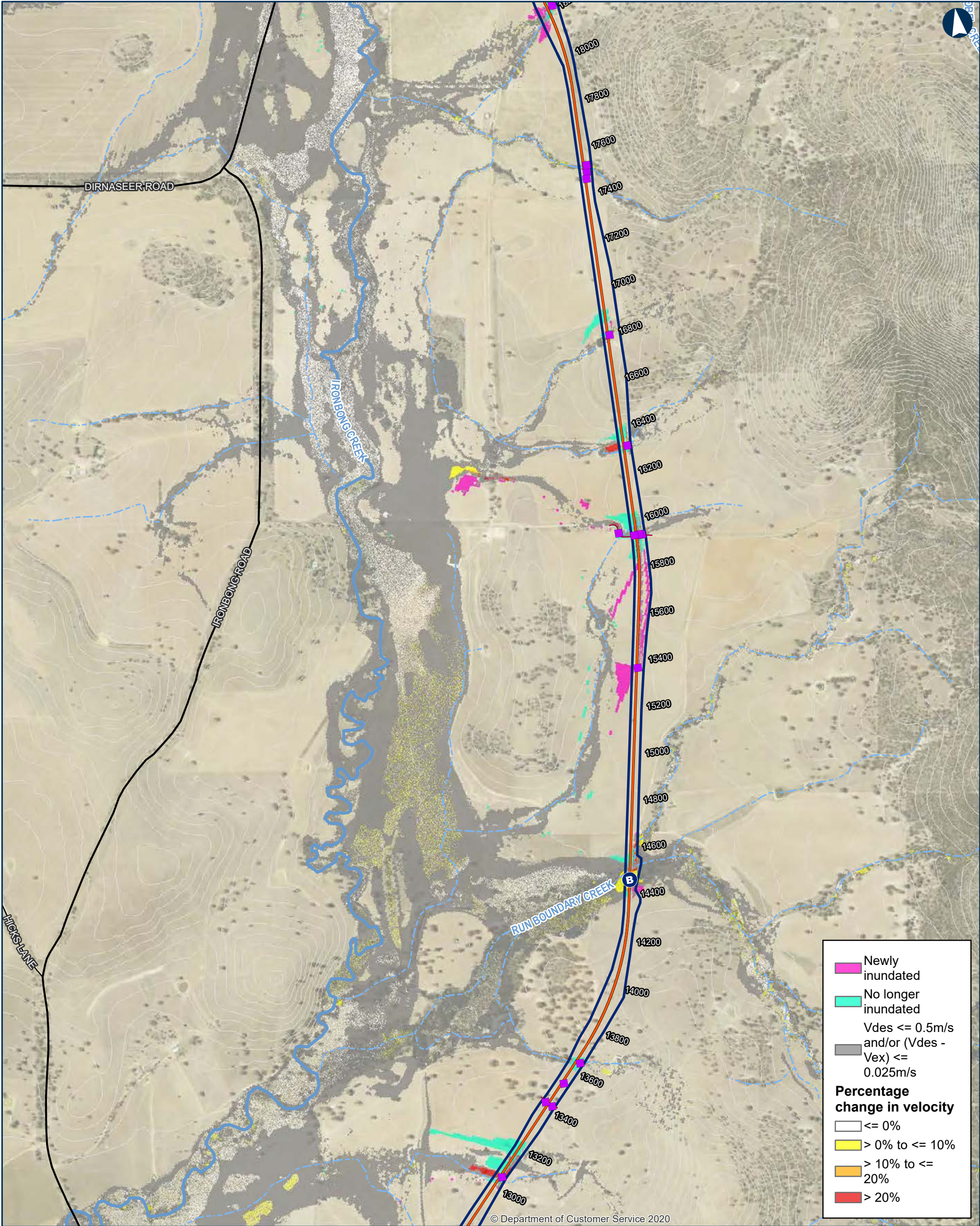
- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

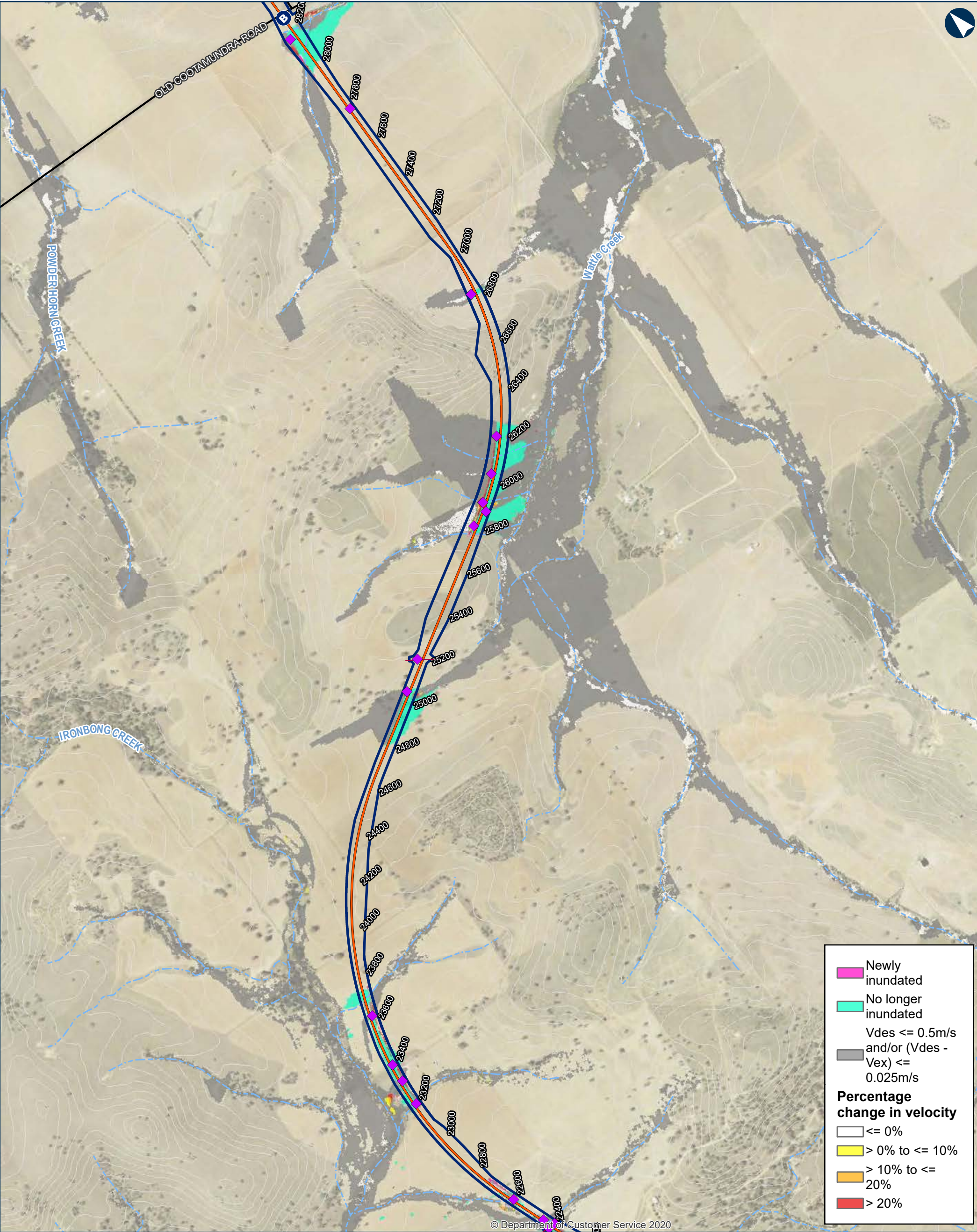
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

Map 6 of 9

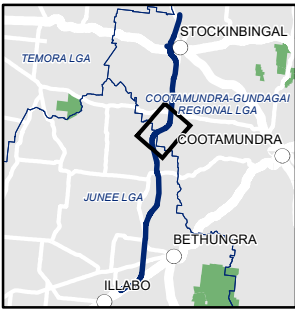
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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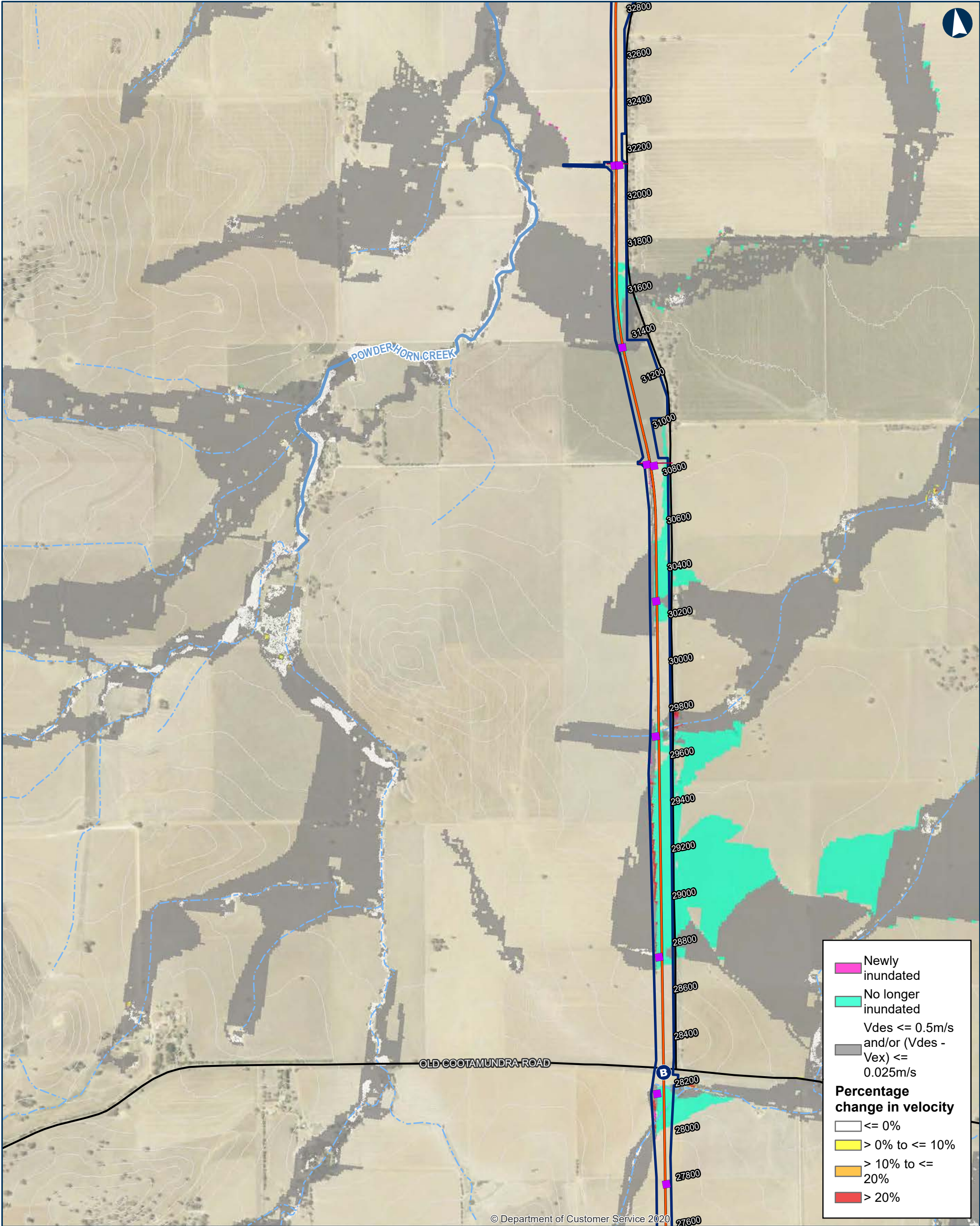
Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

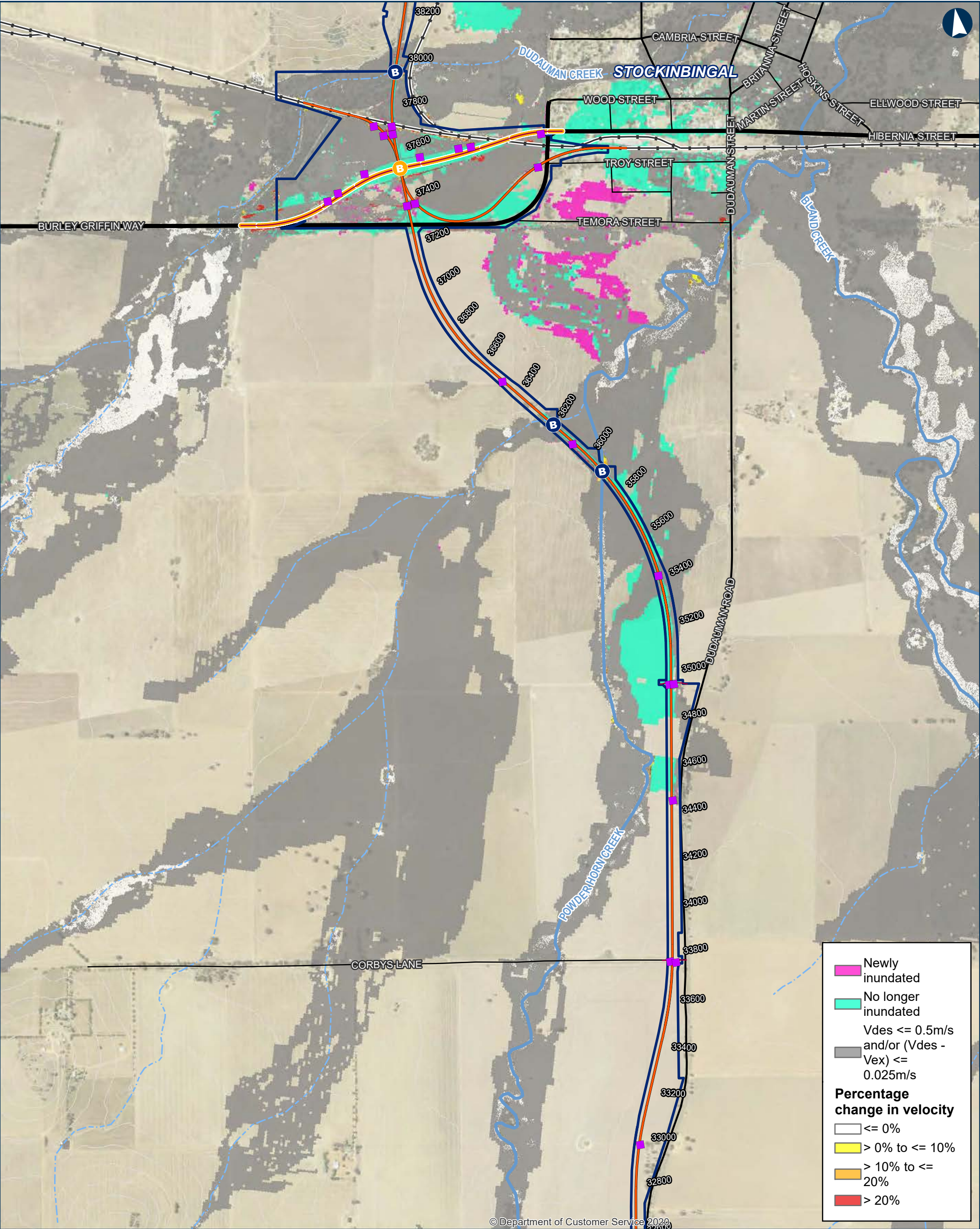
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

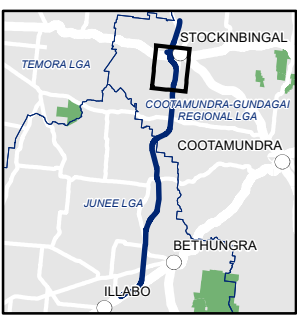
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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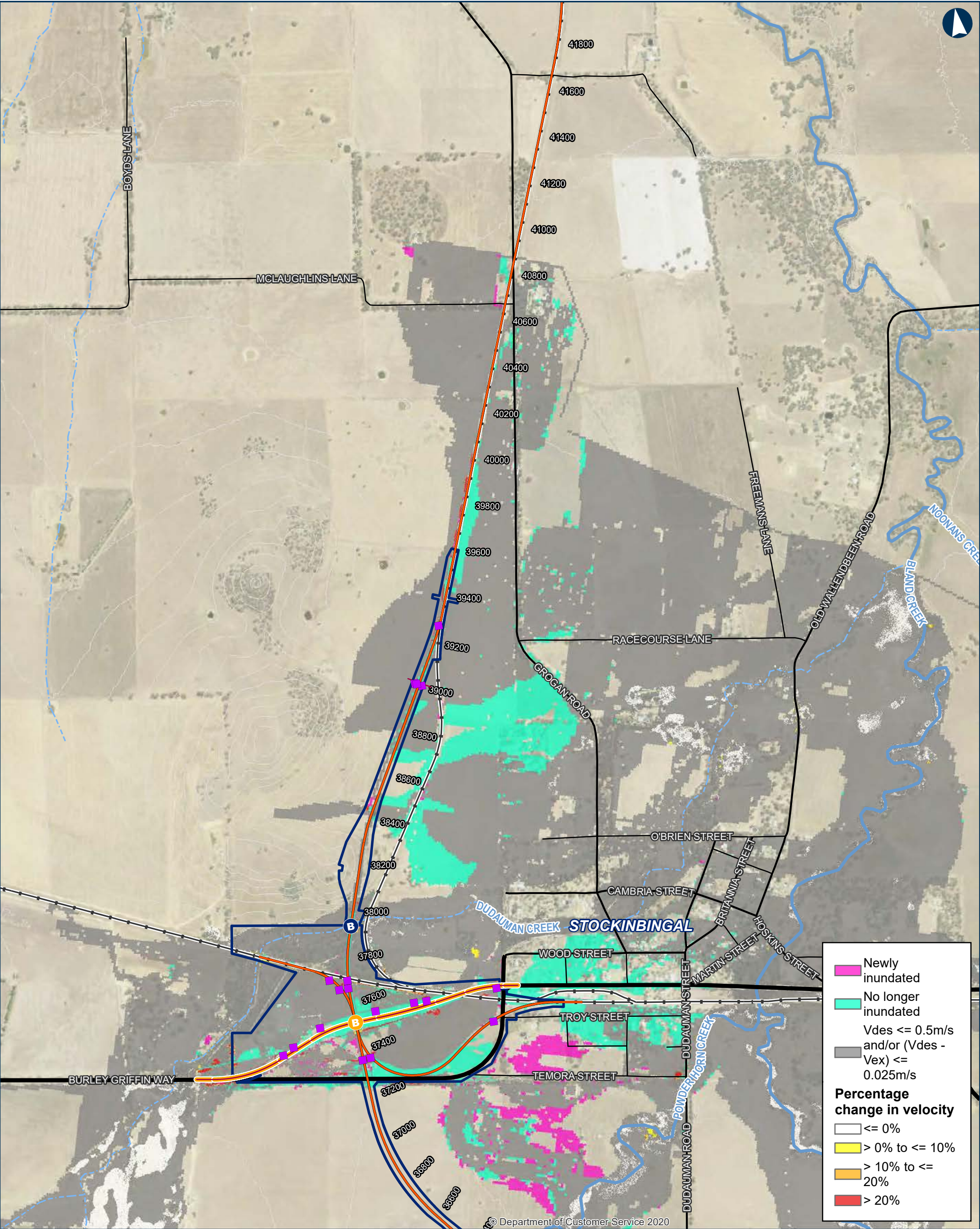
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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Burley Griffin Way Realignment
- Overbridge (B)
- Underbridge (B)
- Culvert (purple square)
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

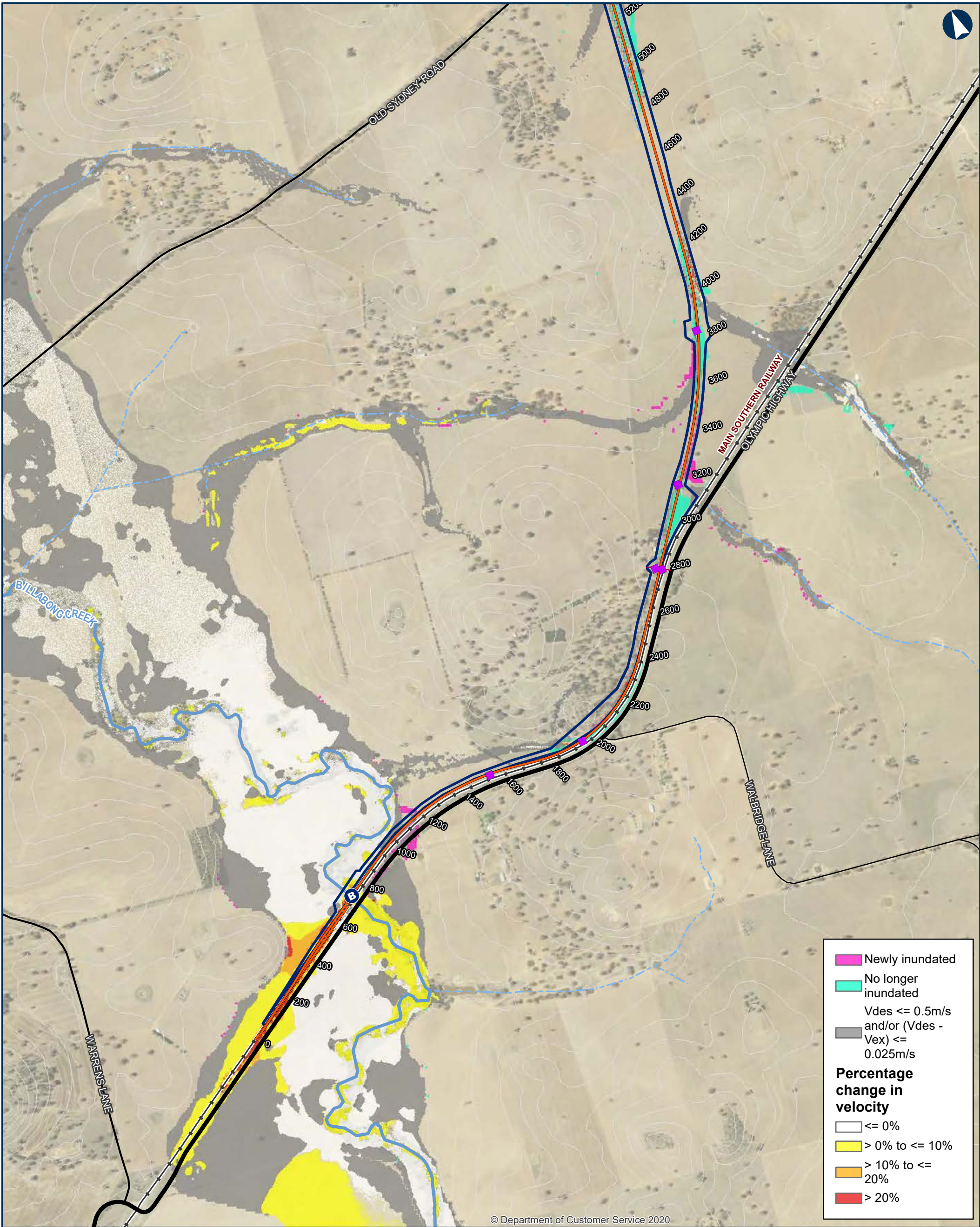
Local road

Sub-arterial road

Arterial road



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



ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

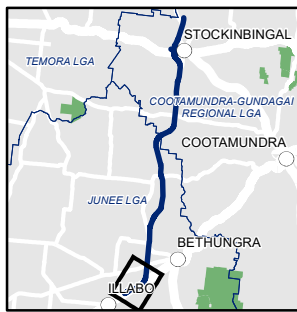
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

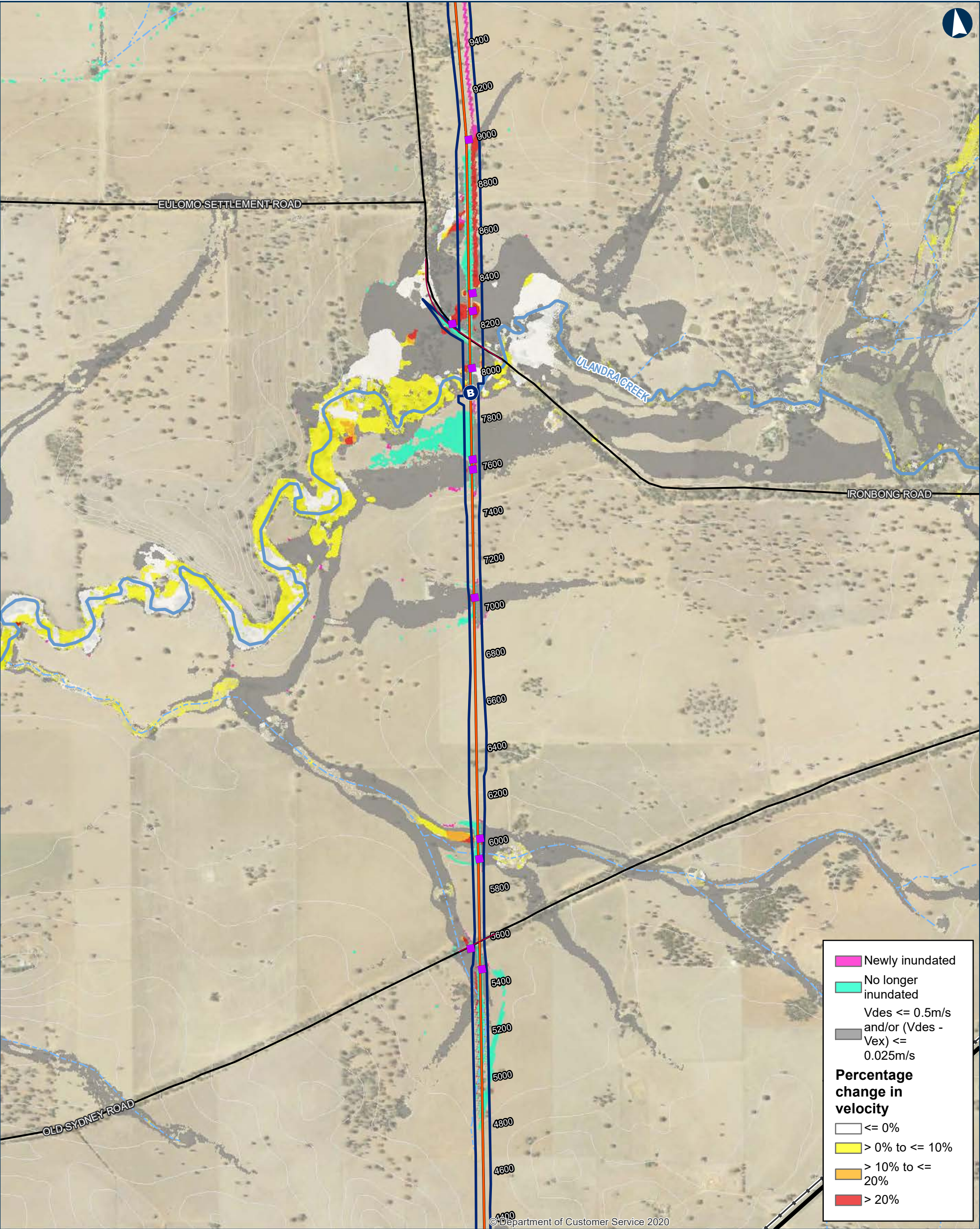
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

0200400Metres

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Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

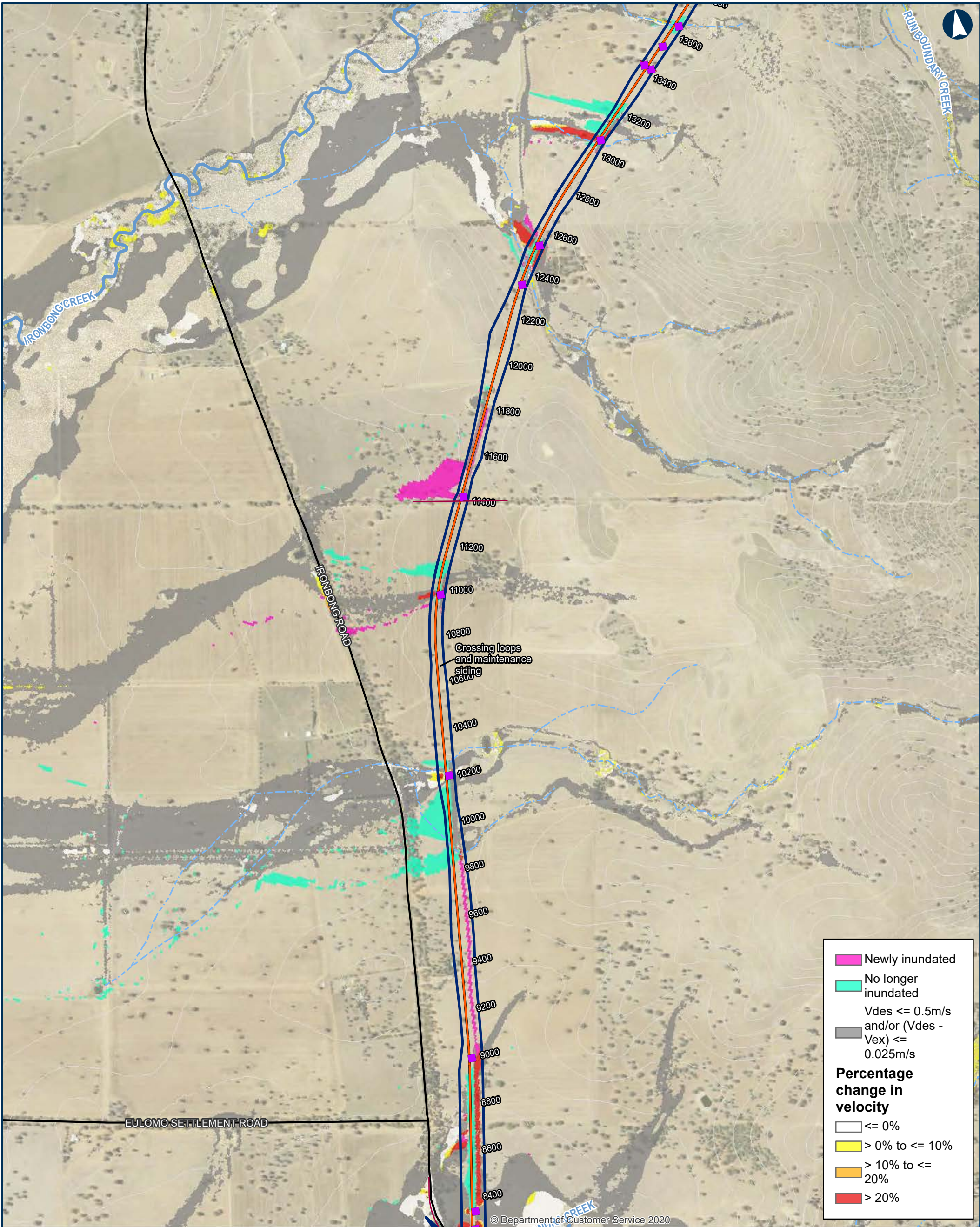
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 3 of 9

0 200 400 Metres

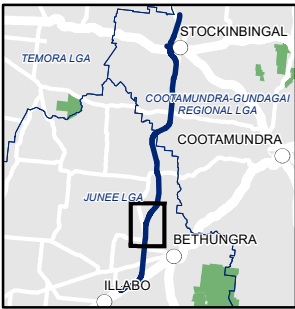
Coordinate System: GDA 1994 MGA Zone 55

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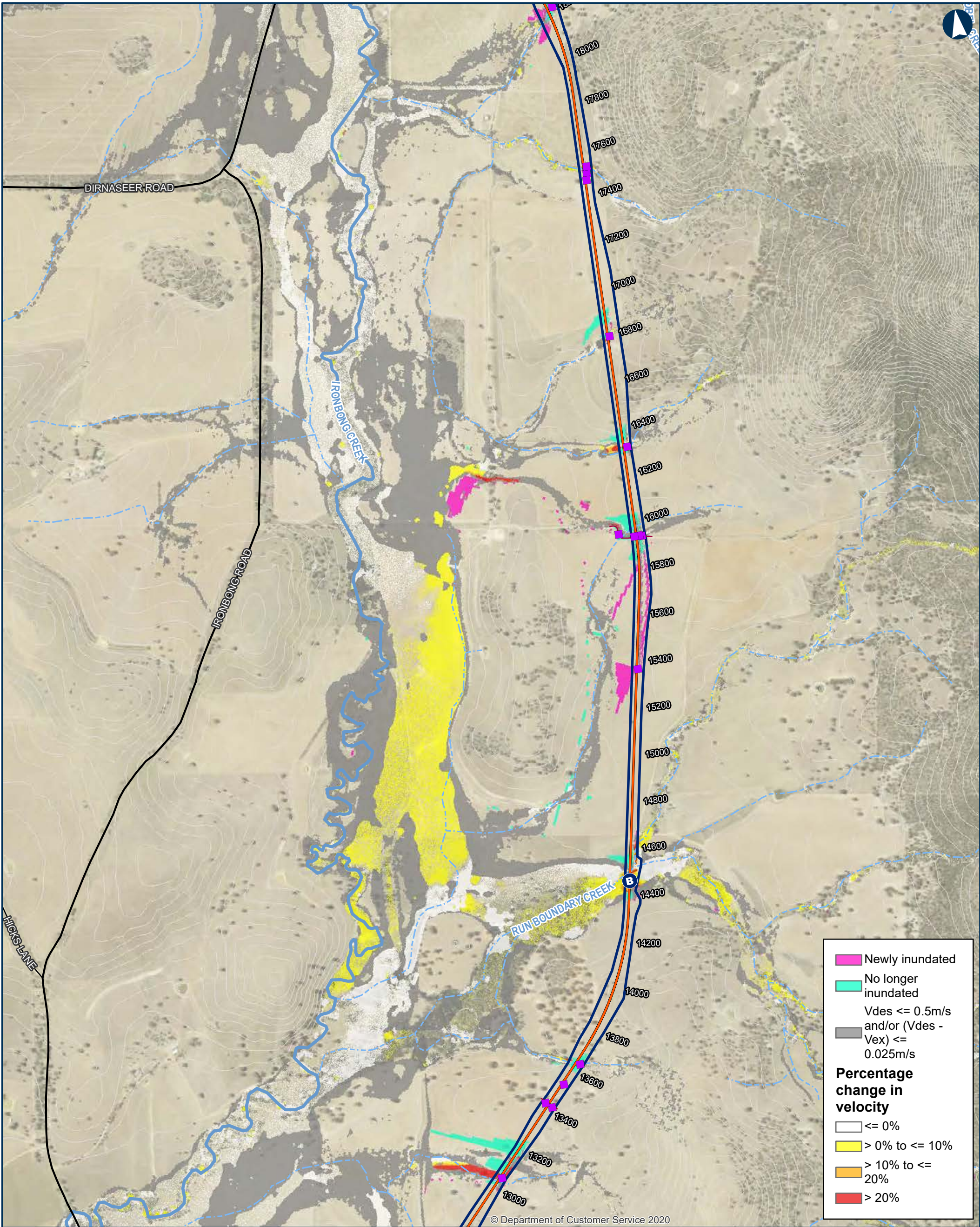
- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Overbridge

- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

40950

B Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

B New track/track upgrade

B Overbridge

B Underbridge

B Culvert

5m Contours

Existing rail

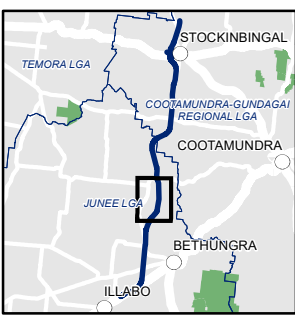
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

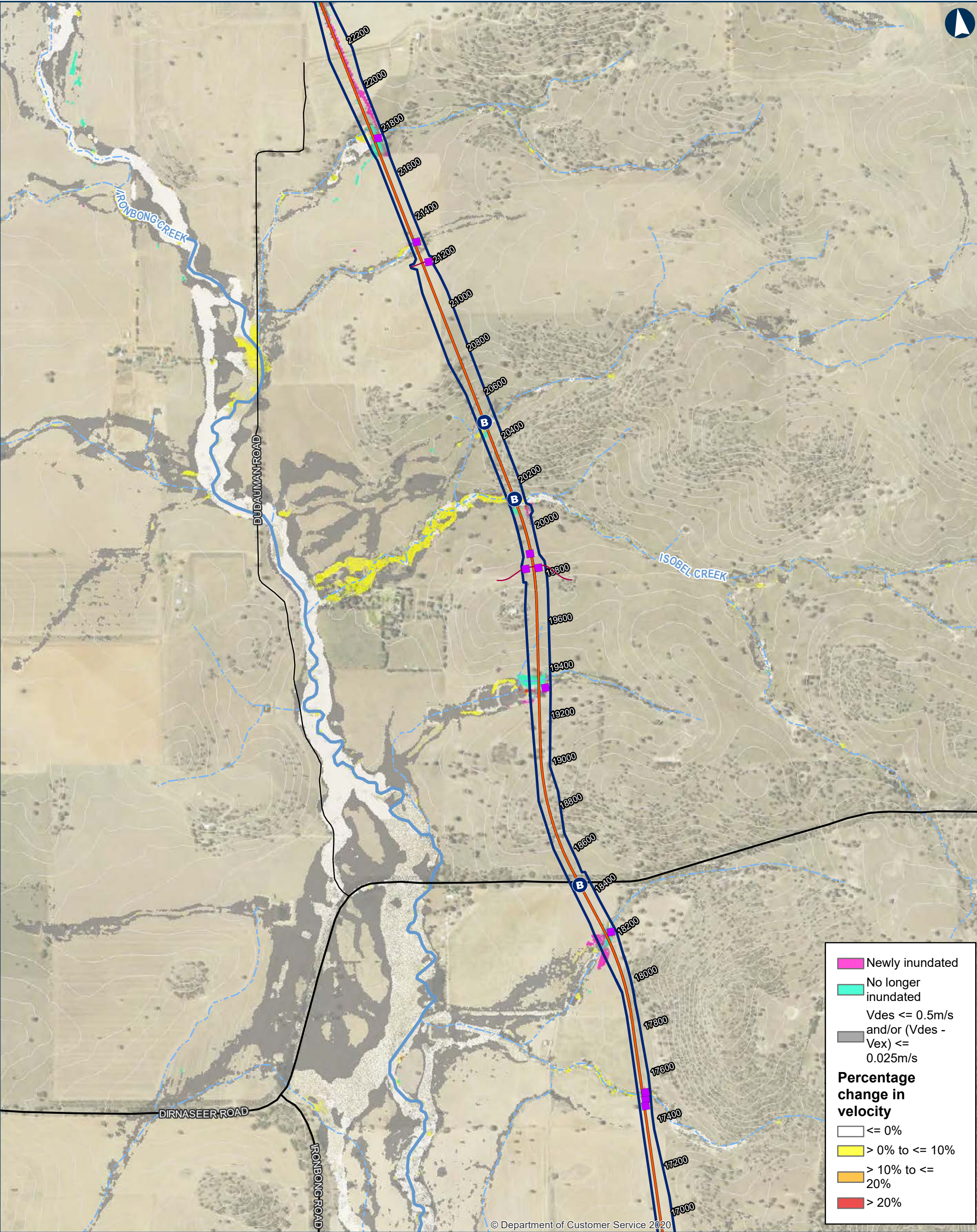
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

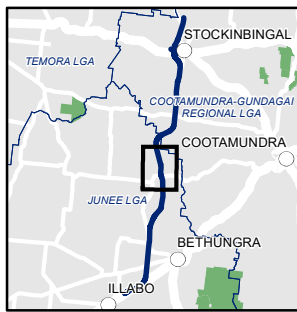
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

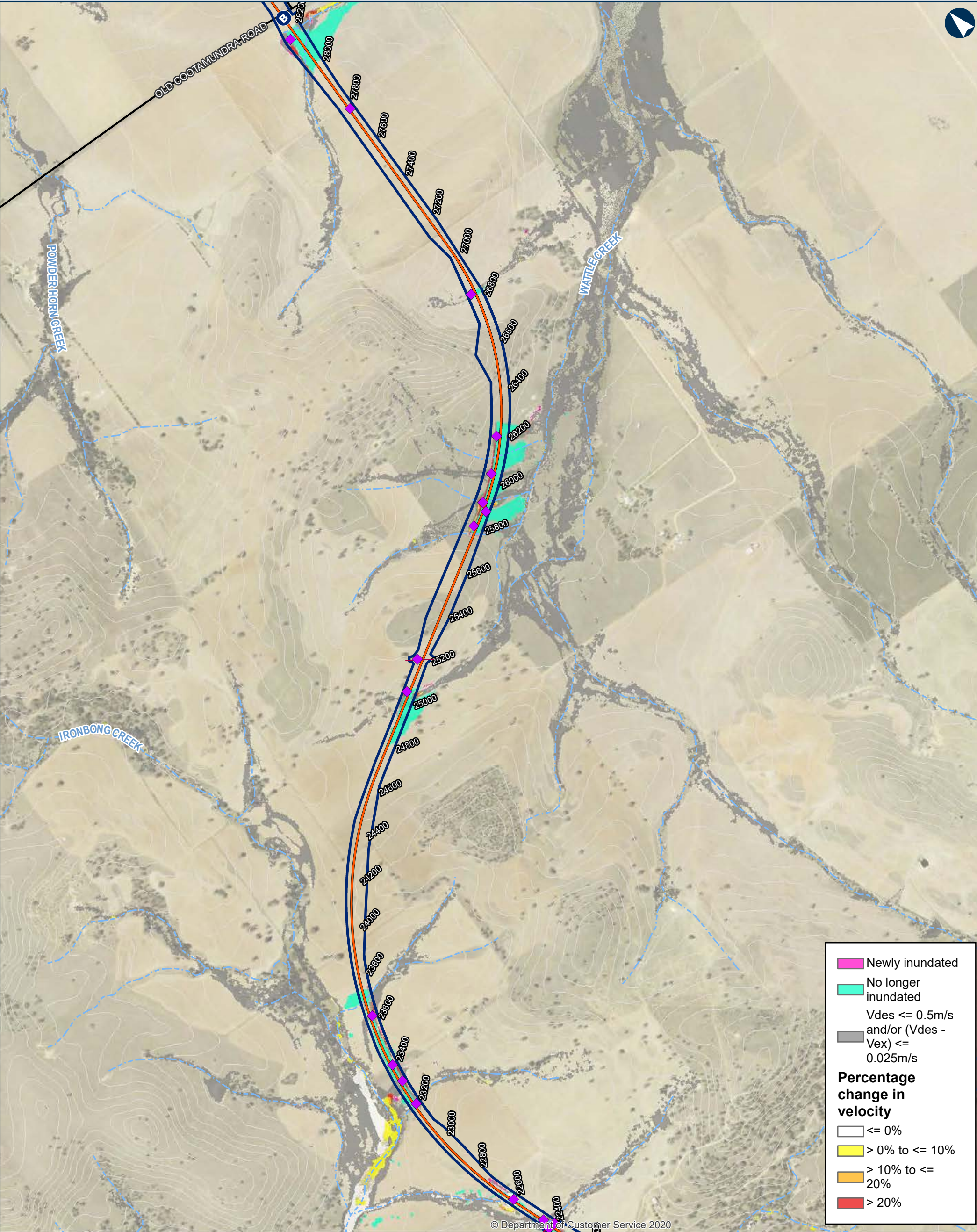
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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



Newly inundated

No longer inundated

$V_{des} \leq 0.5\text{m/s}$
and/or $(V_{des} - V_{ex}) \leq 0.025\text{m/s}$

Percentage change in velocity

$\leq 0\%$

$> 0\%$ to $\leq 10\%$

$> 10\%$ to $\leq 20\%$

$> 20\%$

ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

ILLABO TO STOCKINBINGAL

STOCKINBINGAL

TEMORA LGA

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

BETHUNGRA

ILLABO

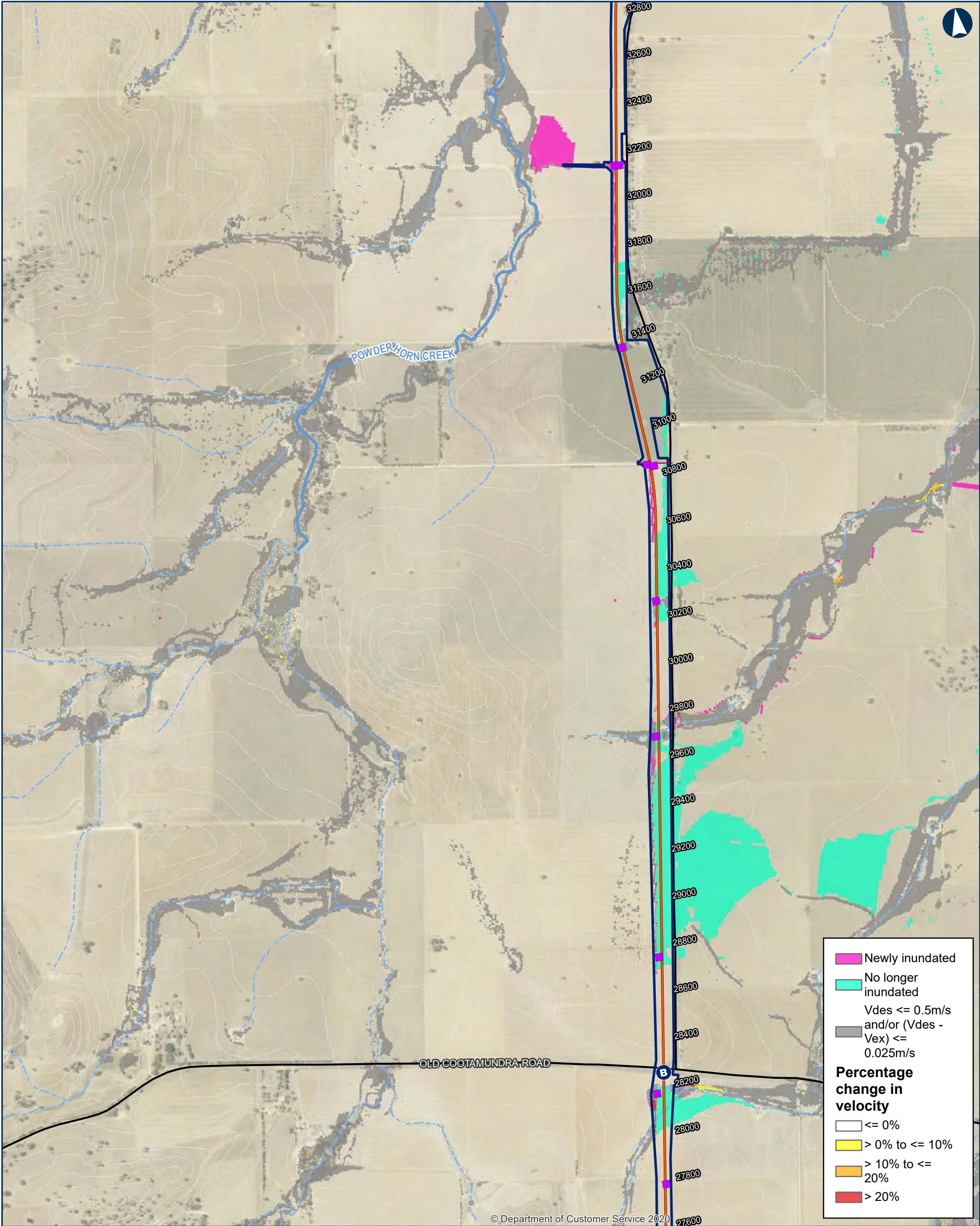
JUNEE LGA

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\1AEP\220_0122_HYD_1AEPVelocityChange_v5.mxd



ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

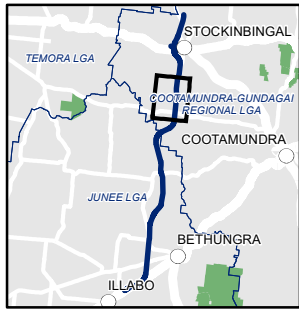
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Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

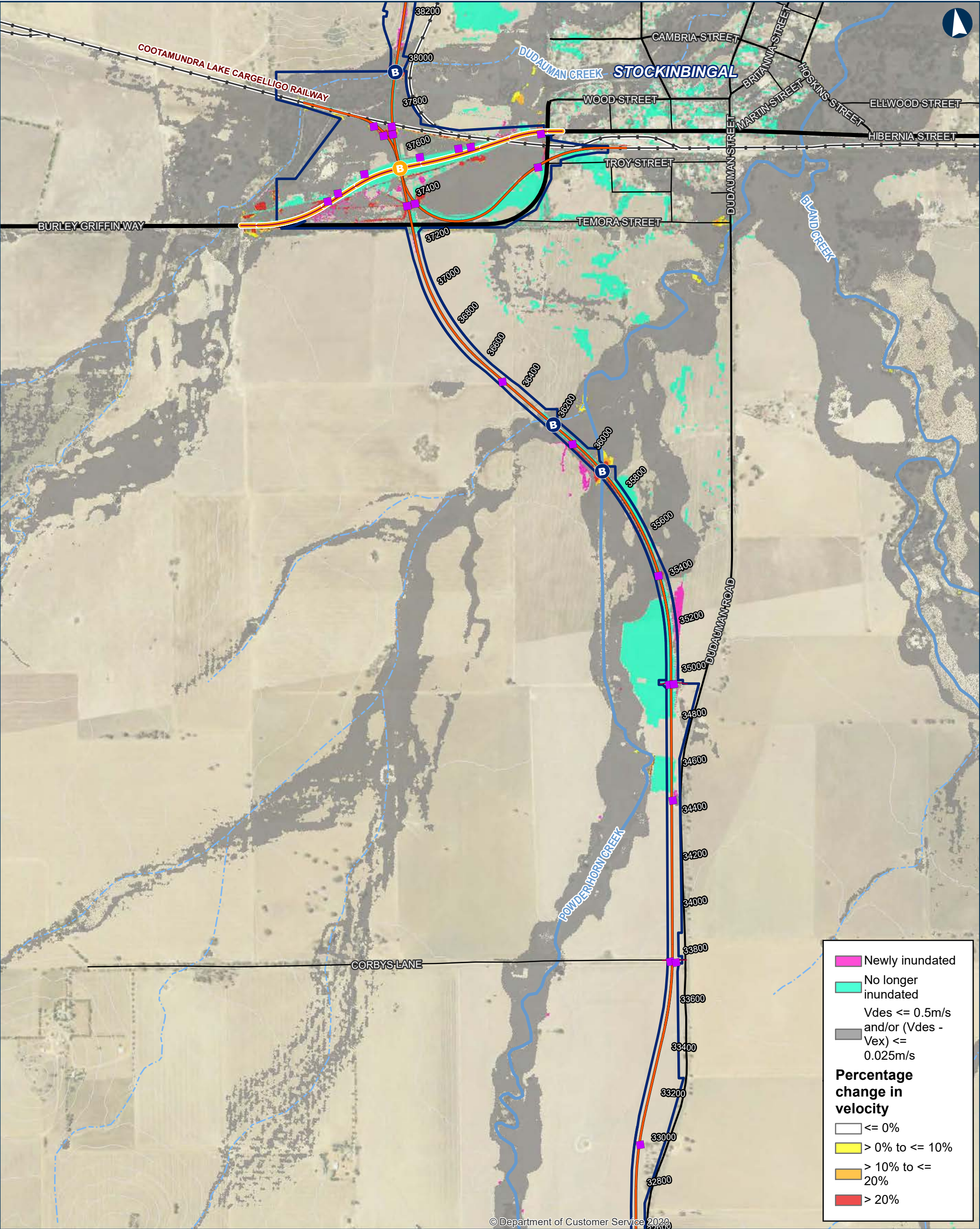
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023
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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

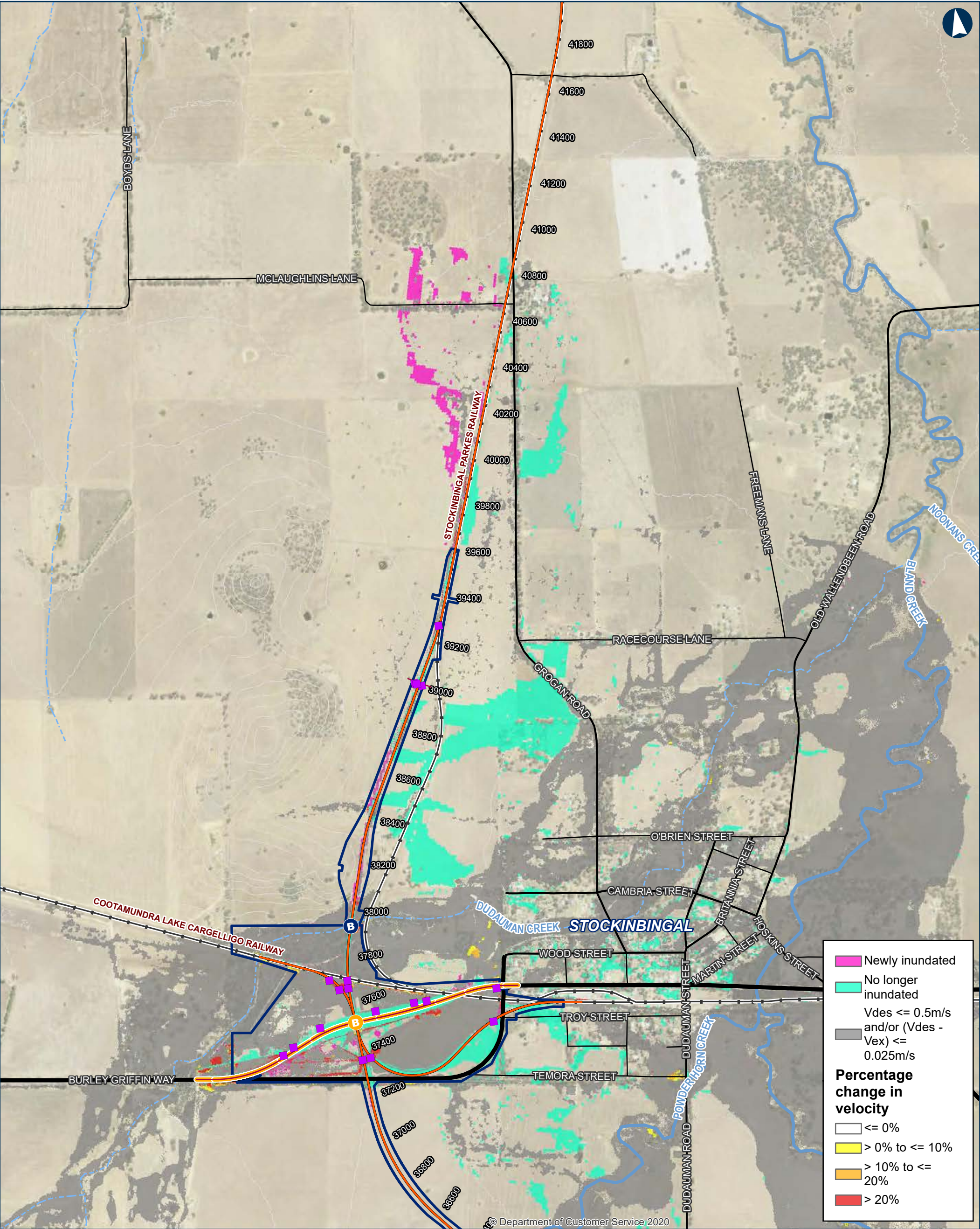
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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Newly inundated

No longer inundated

$V_{des} \leq 0.5\text{m/s}$
and/or $(V_{des} - V_{ex}) \leq 0.025\text{m/s}$

Percentage change in velocity

$\leq 0\%$

$> 0\%$ to $\leq 10\%$

$> 10\%$ to $\leq 20\%$

$> 20\%$

ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 9 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 23/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

B Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

STOCKINBINGAL

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

BETHUNGRA

ILLABO

JUNEE LGA

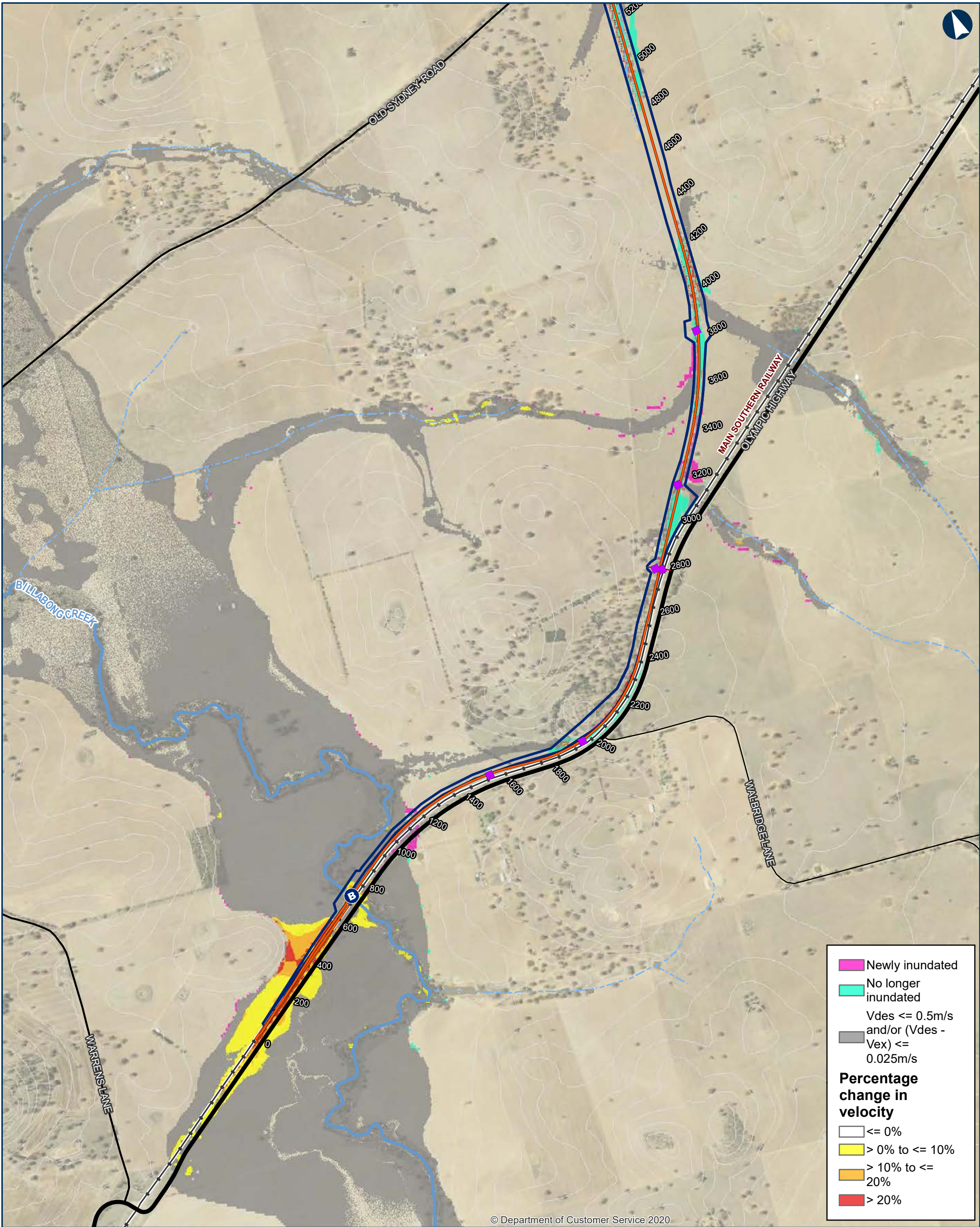
TEMORA LGA

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\1AEP\220_0122_HYD_1AEPVelocityChange_v5.mxd



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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 1 of 9

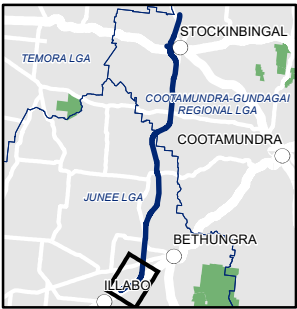
0 200 400 Metres

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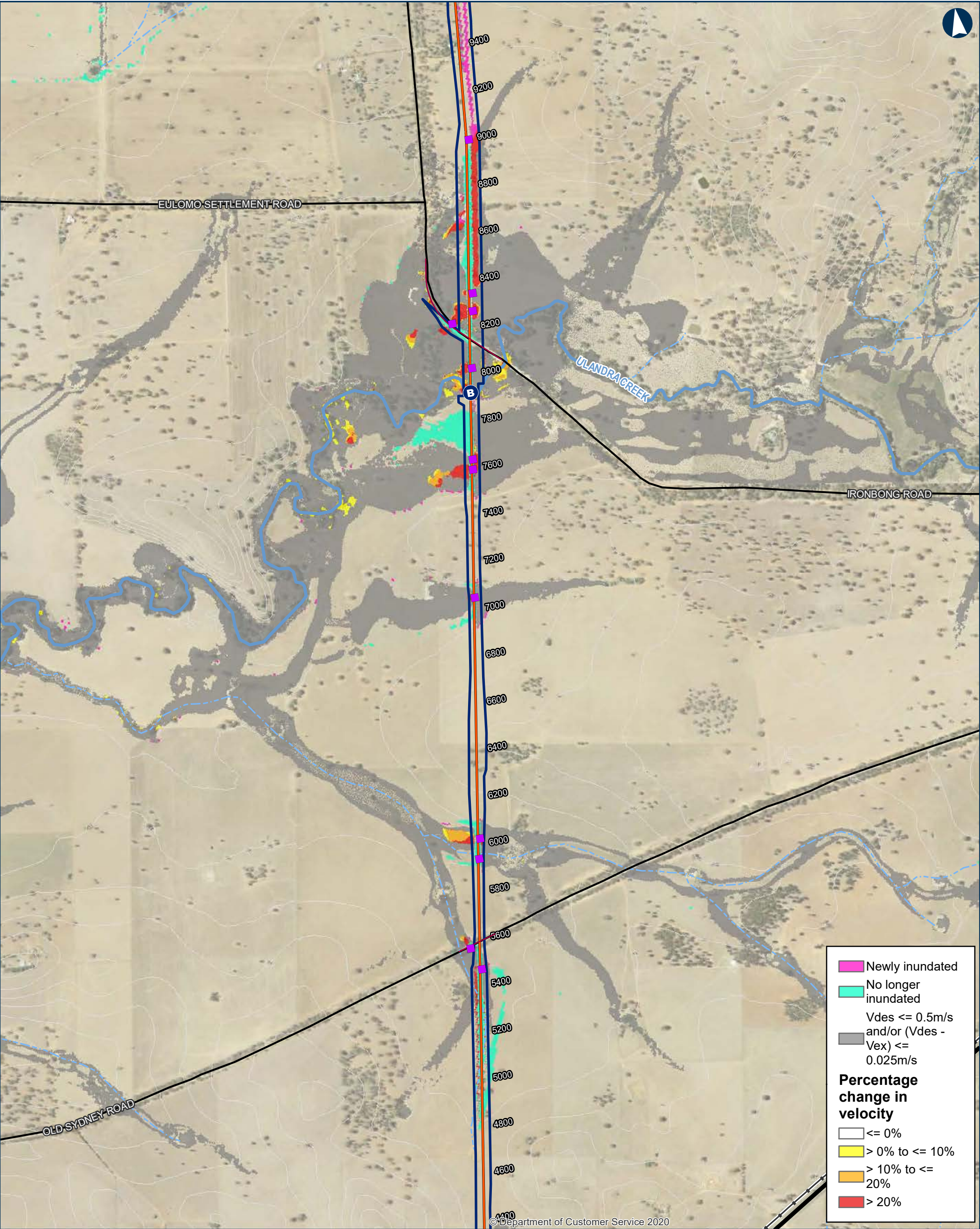
- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

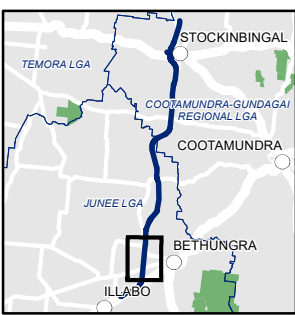
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

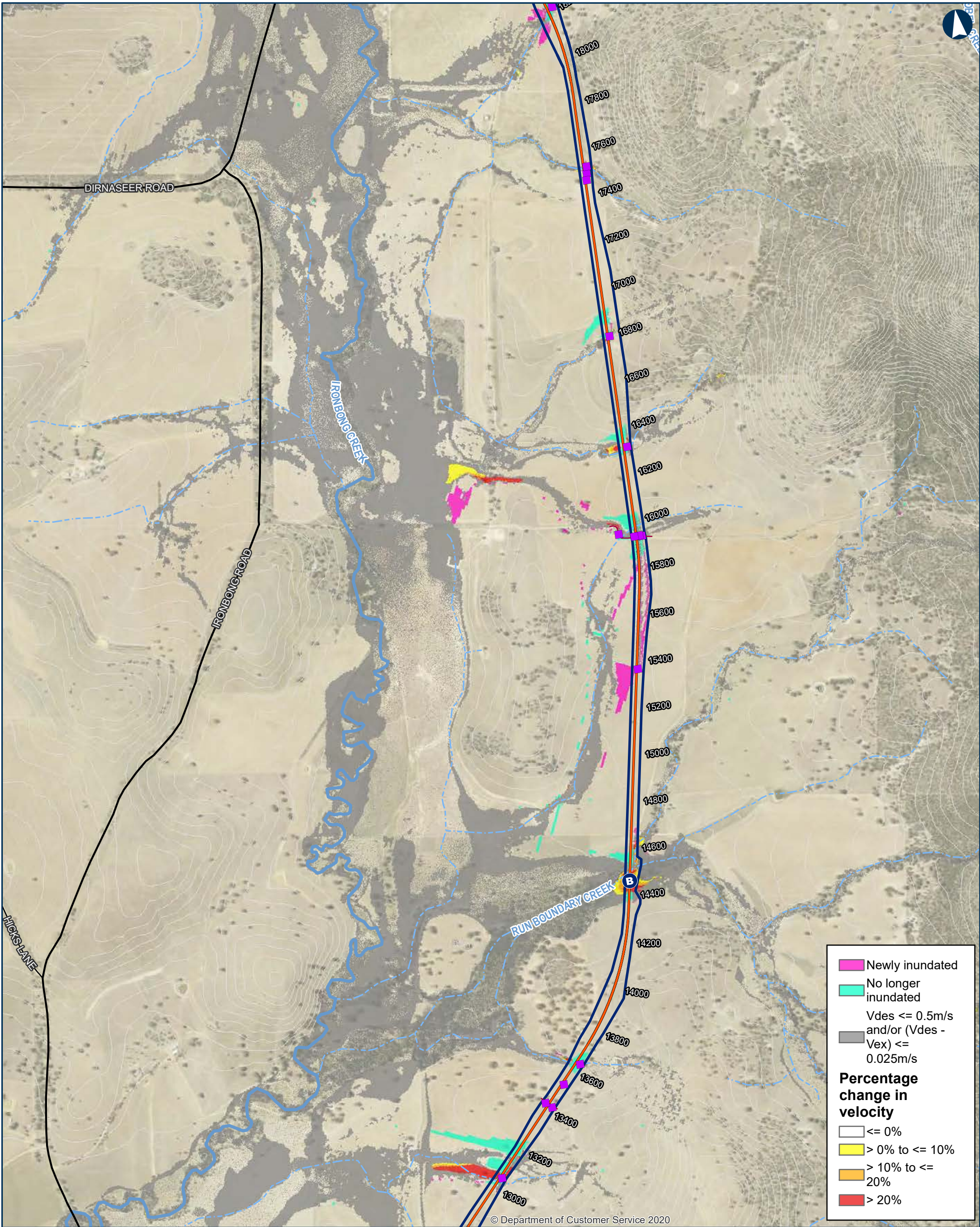
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

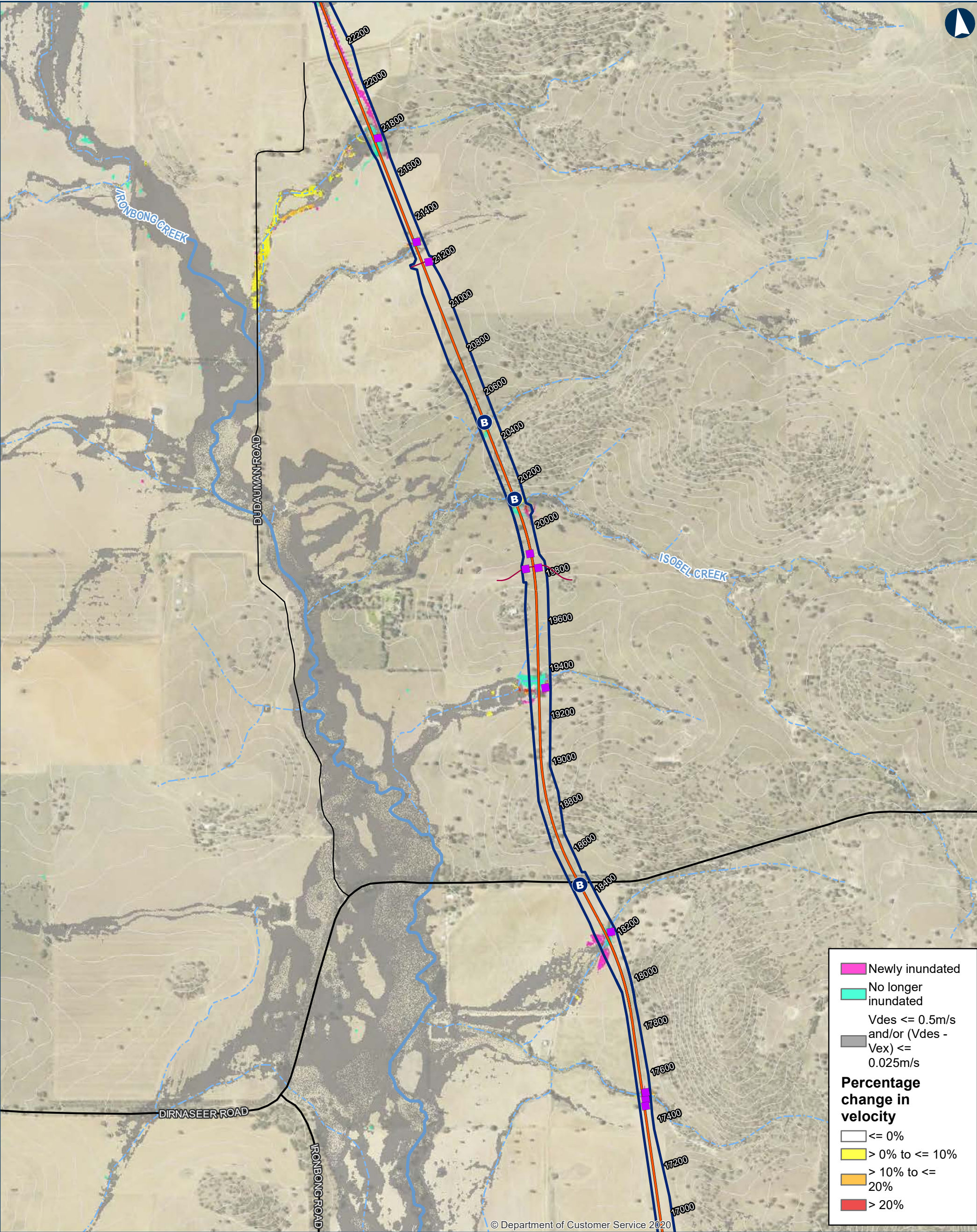
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINAL 1% AEP Climate Change Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

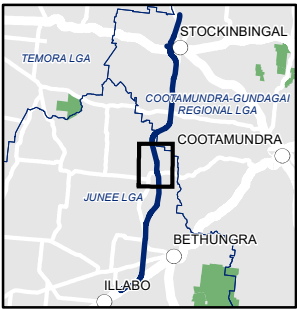
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

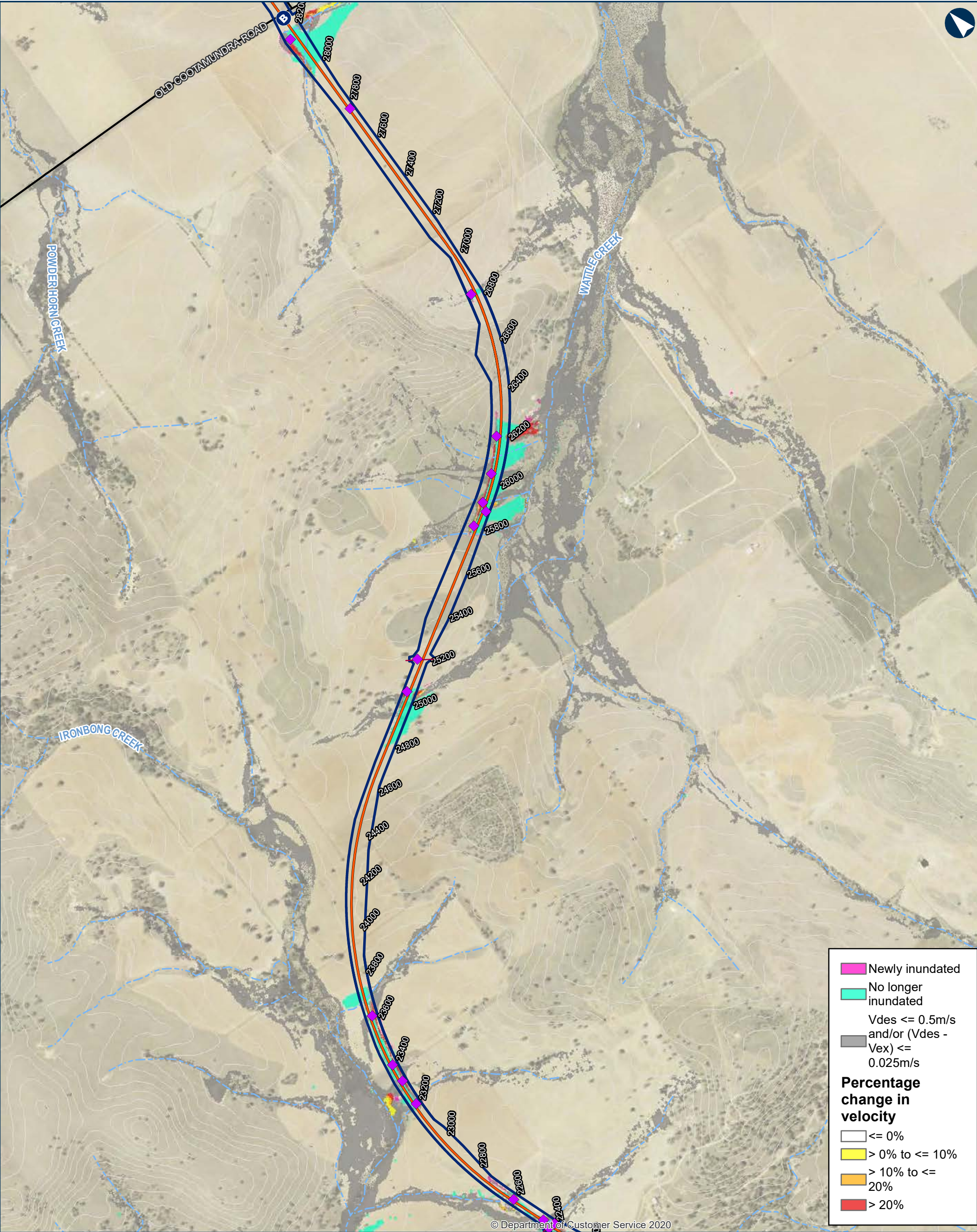
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 6 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

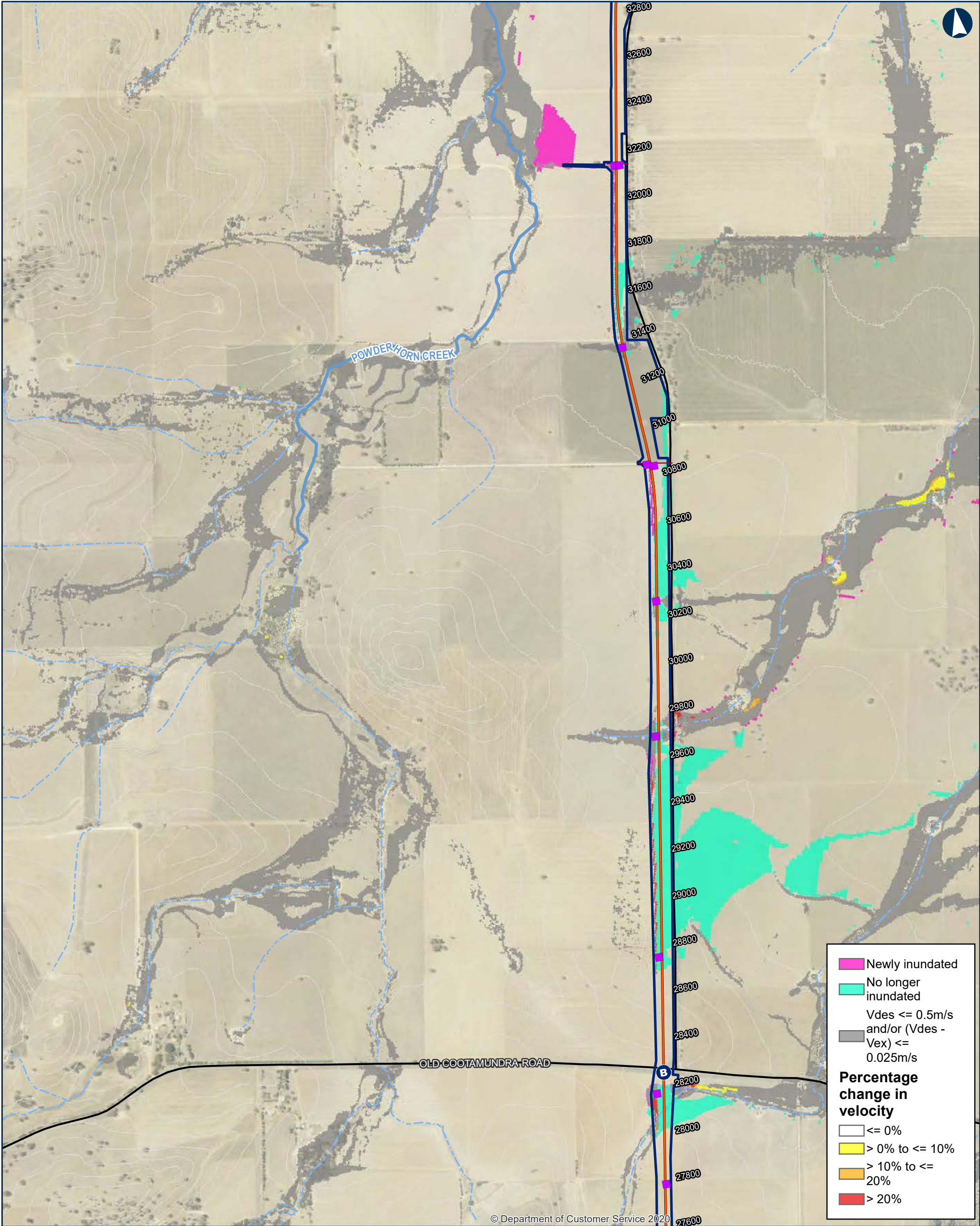
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

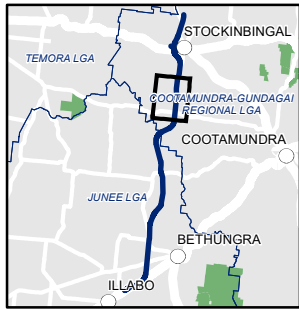
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

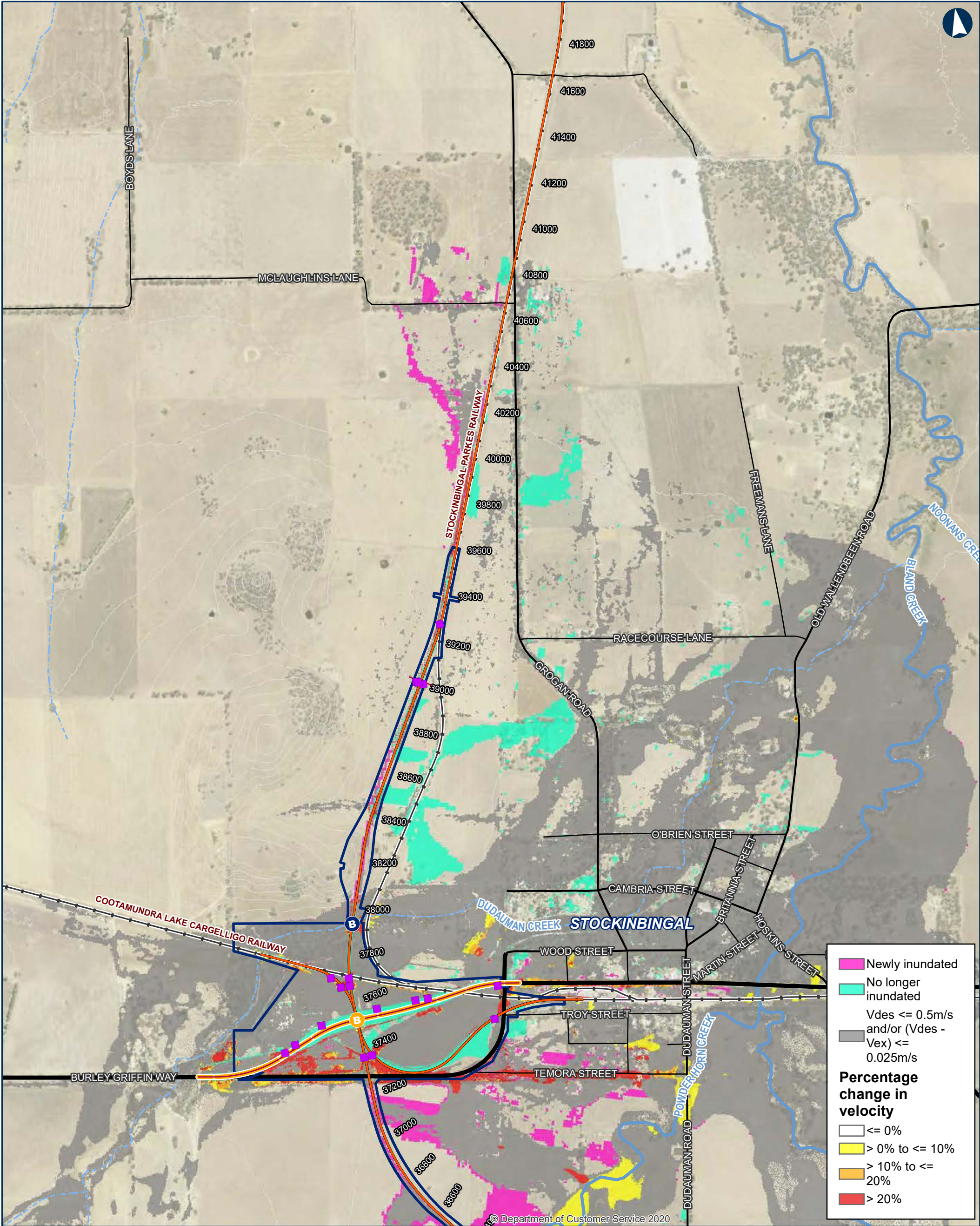
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

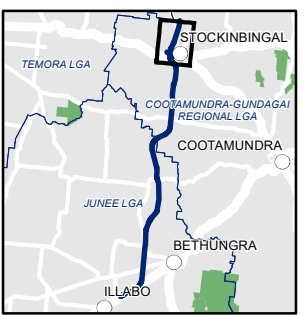
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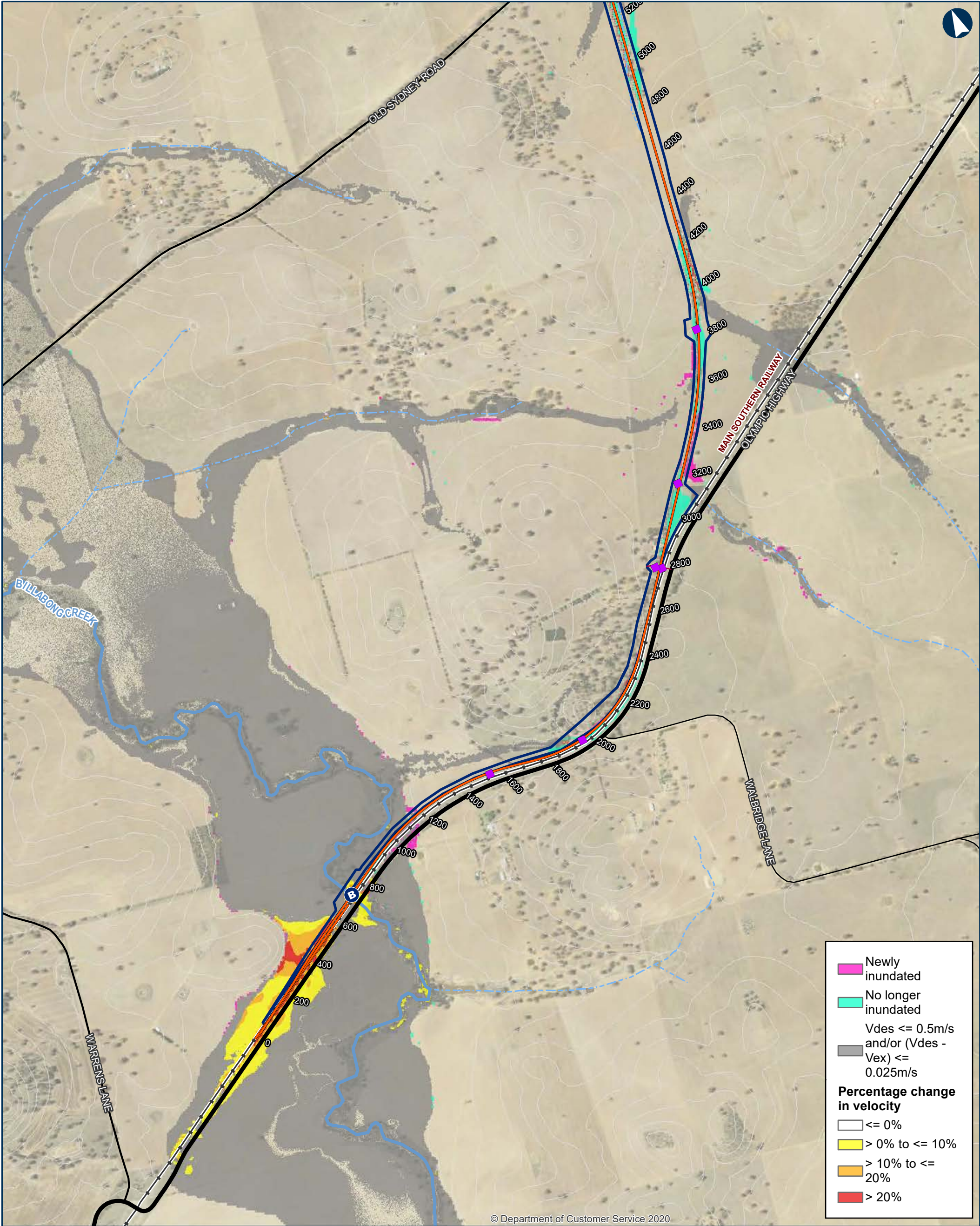
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- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Burley Griffin Way realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

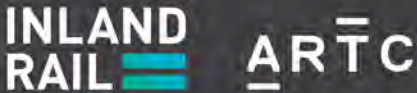
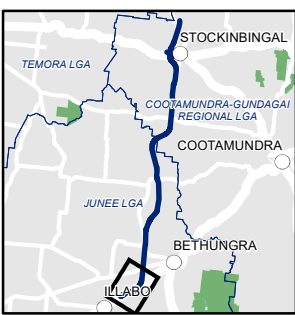
Local road

—

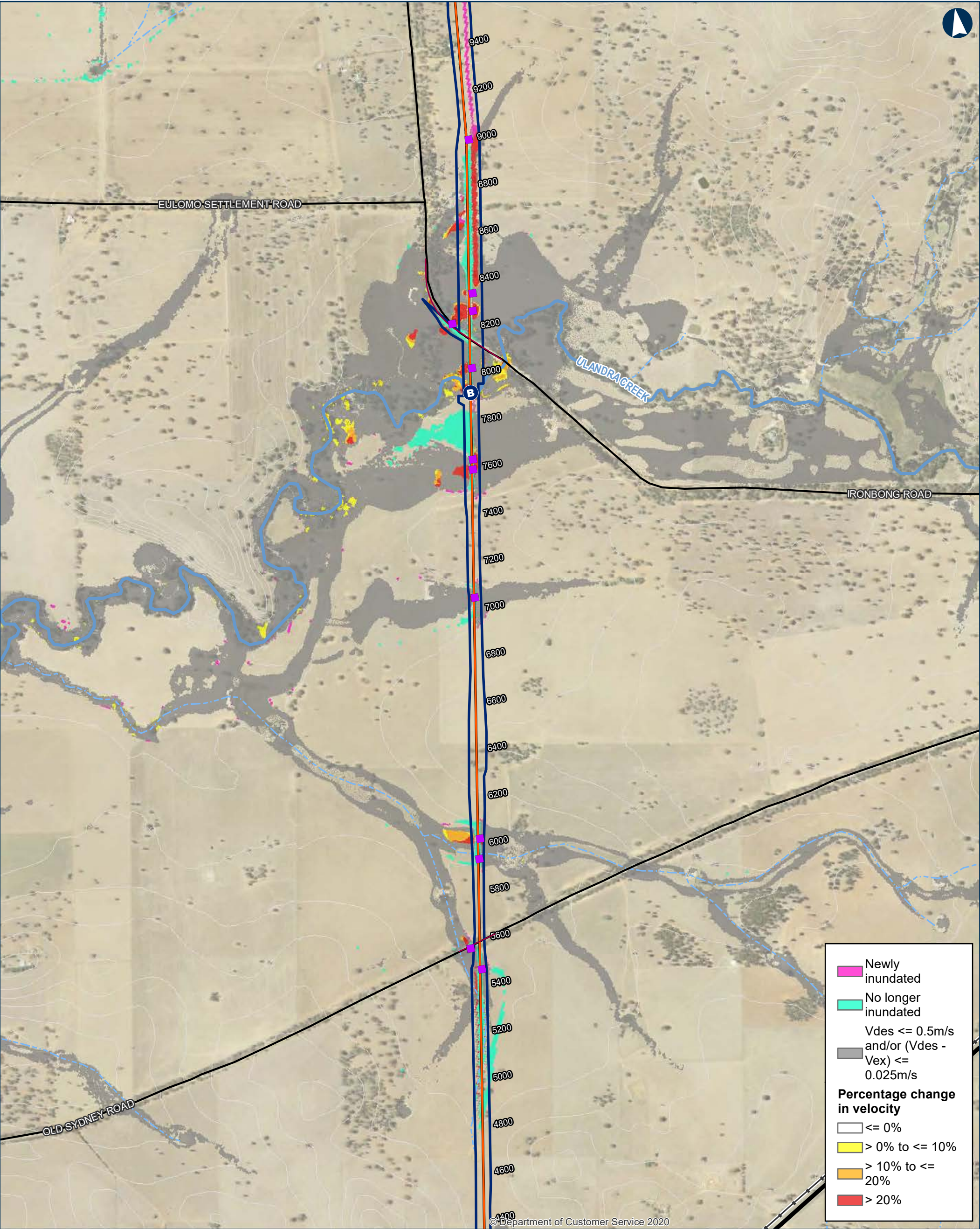
Sub-arterial road

—

Arterial road



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



ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

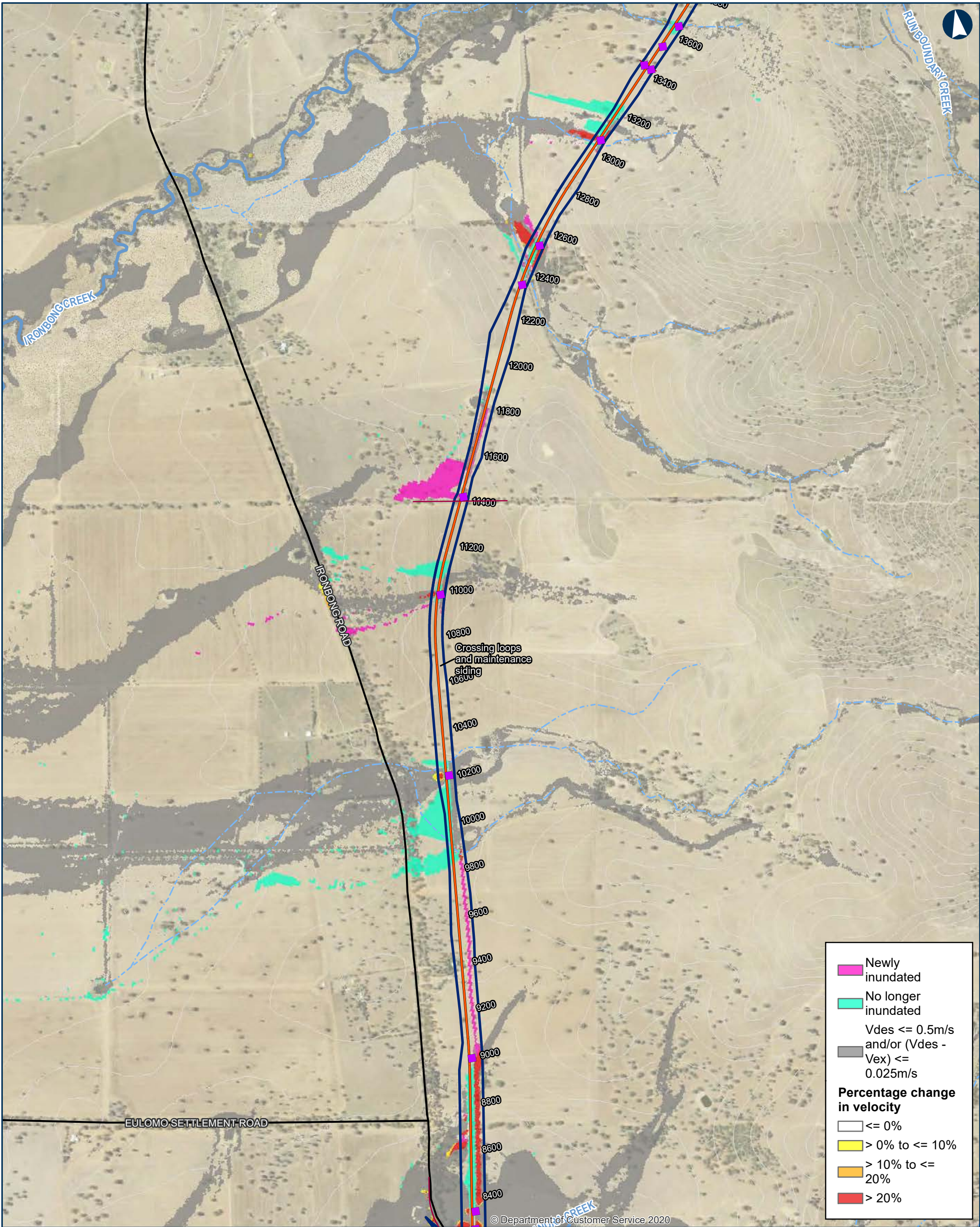
Sub-arterial road

Arterial road

INLAND RAIL

ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

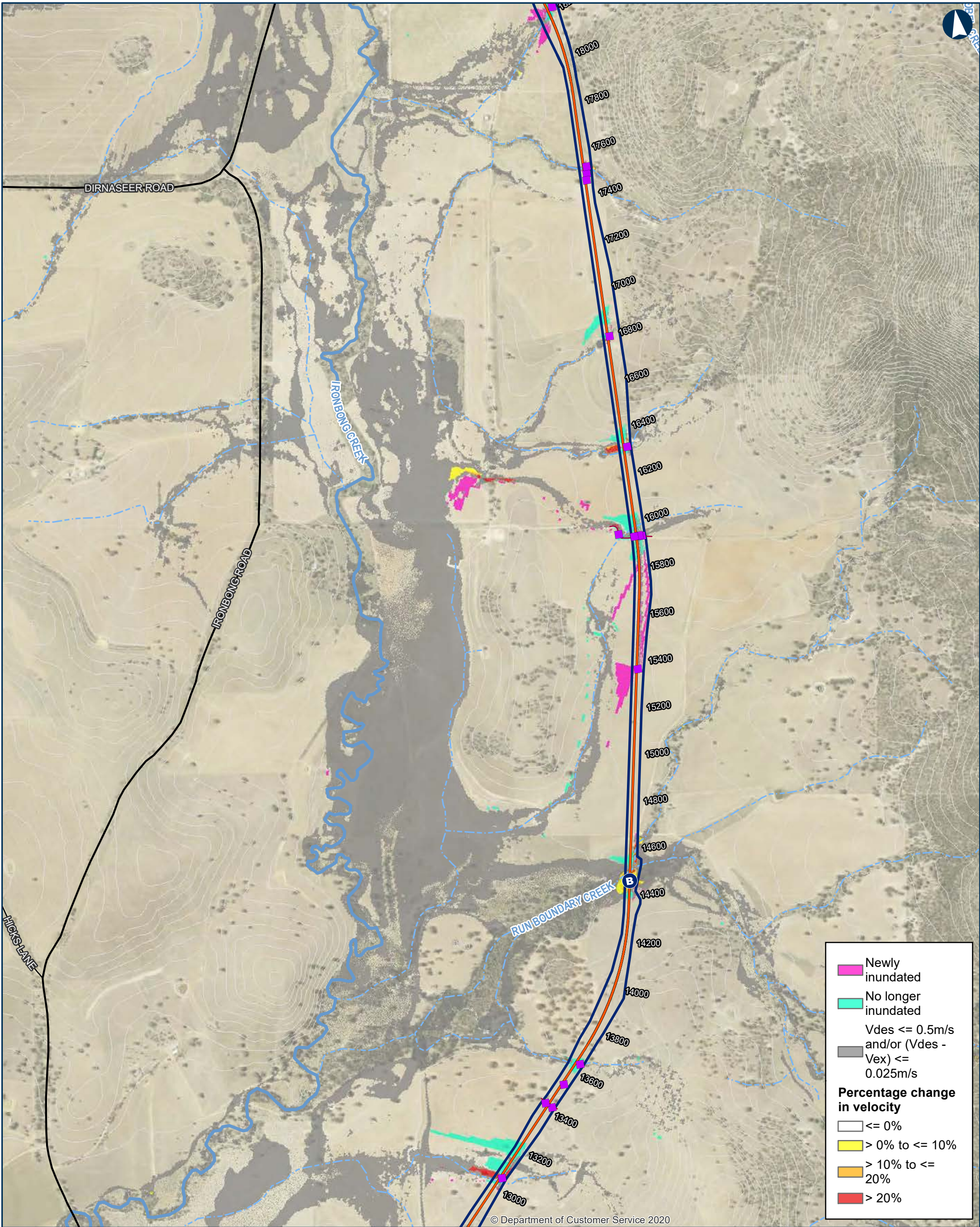
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

Map 4 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

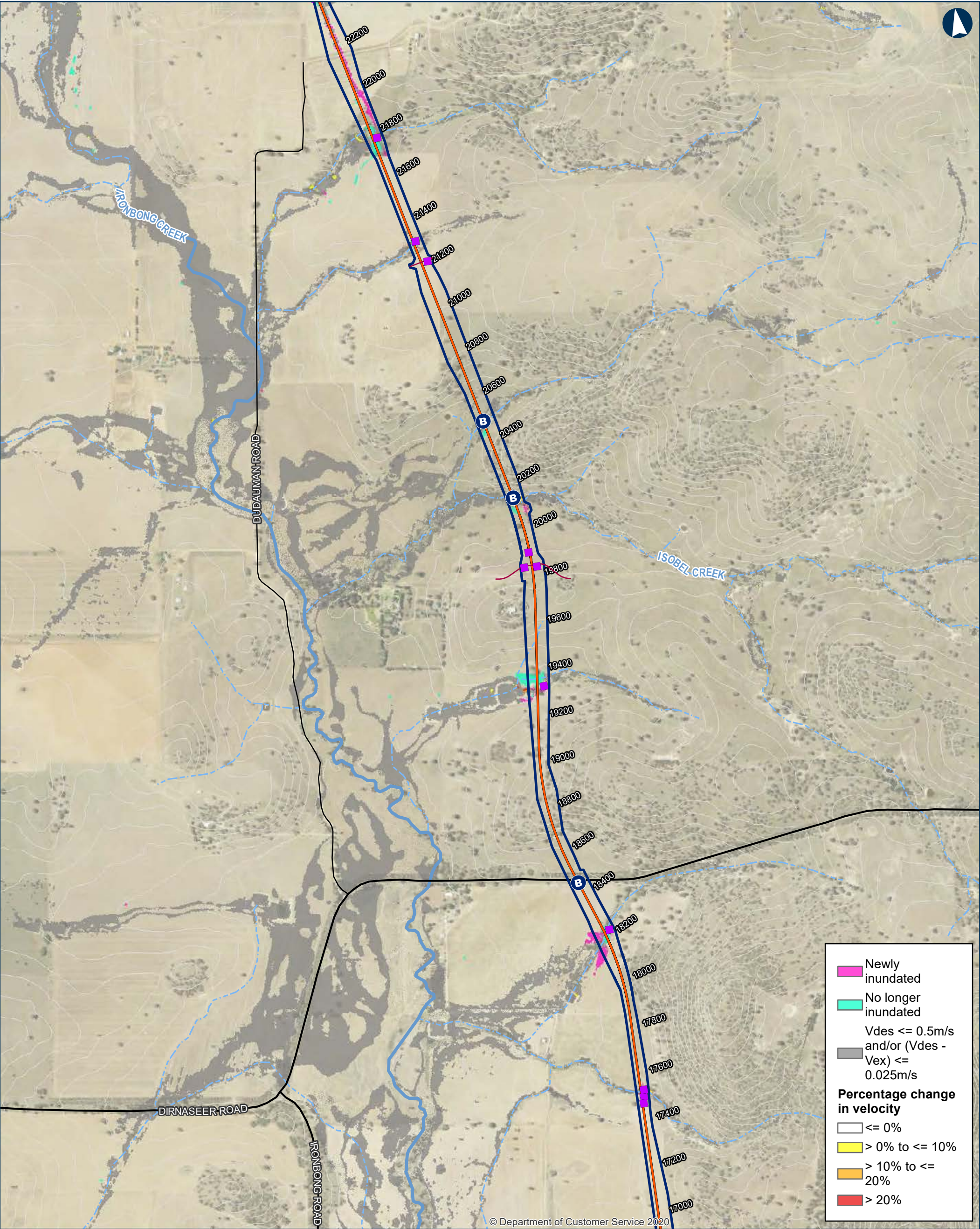
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

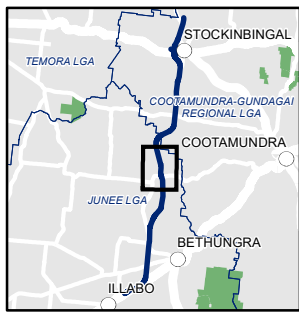
Coordinate System: GDA 1994 MGA Zone 55
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Permanent acquisition boundary
Chainage (distance in metres from southern limit of the proposal)
40950
New track/track upgrade
Overbridge

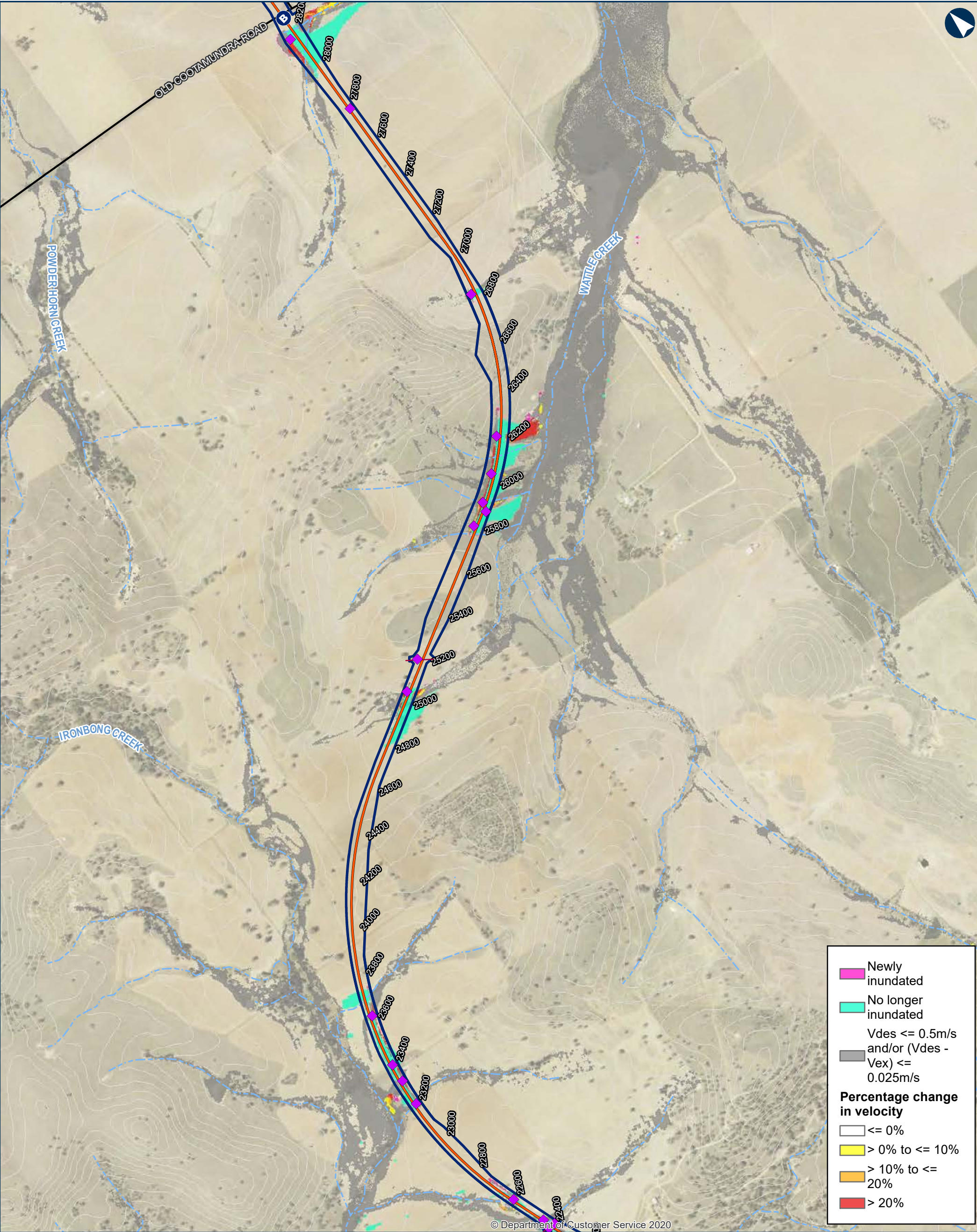
Underbridge
Culvert
5m Contours
Existing rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)
Local road

Sub-arterial road
Arterial road



INLAND RAIL ARTC

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



Newly inundated

No longer inundated

$V_{des} \leq 0.5\text{m/s}$
and/or $(V_{des} - V_{ex}) \leq 0.025\text{m/s}$

Percentage change in velocity

$\leq 0\%$

$> 0\%$ to $\leq 10\%$

$> 10\%$ to $\leq 20\%$

$> 20\%$

ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

Map 6 of 9

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 23/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

TEMORA LGA

STOCKINBINGAL

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

JUNEE LGA

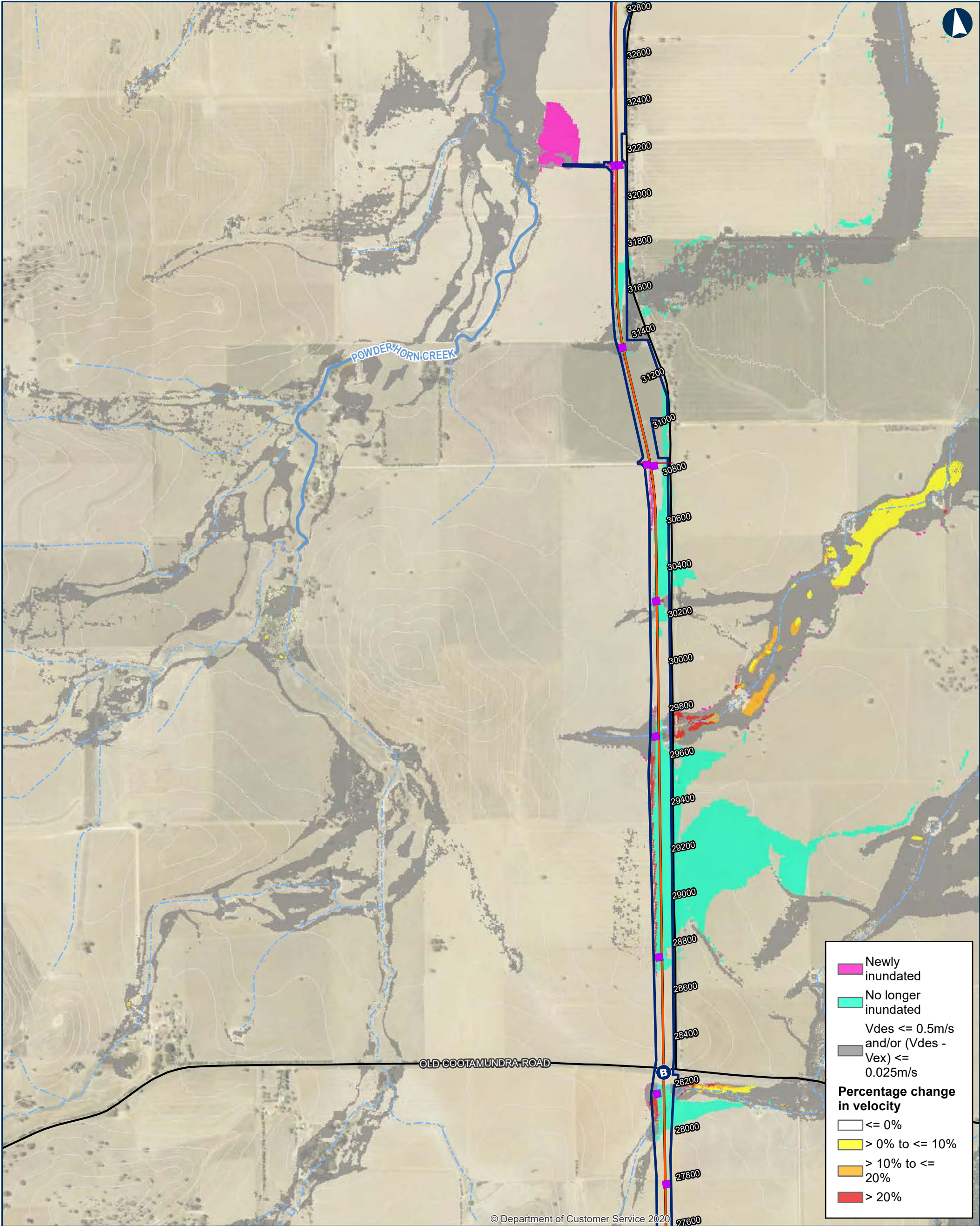
BETHUNGRA

ILLABO

INLAND RAIL ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\0_05AEP\220_0122_HYD_0_05AEPVelocityChange_v5.mxd



ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

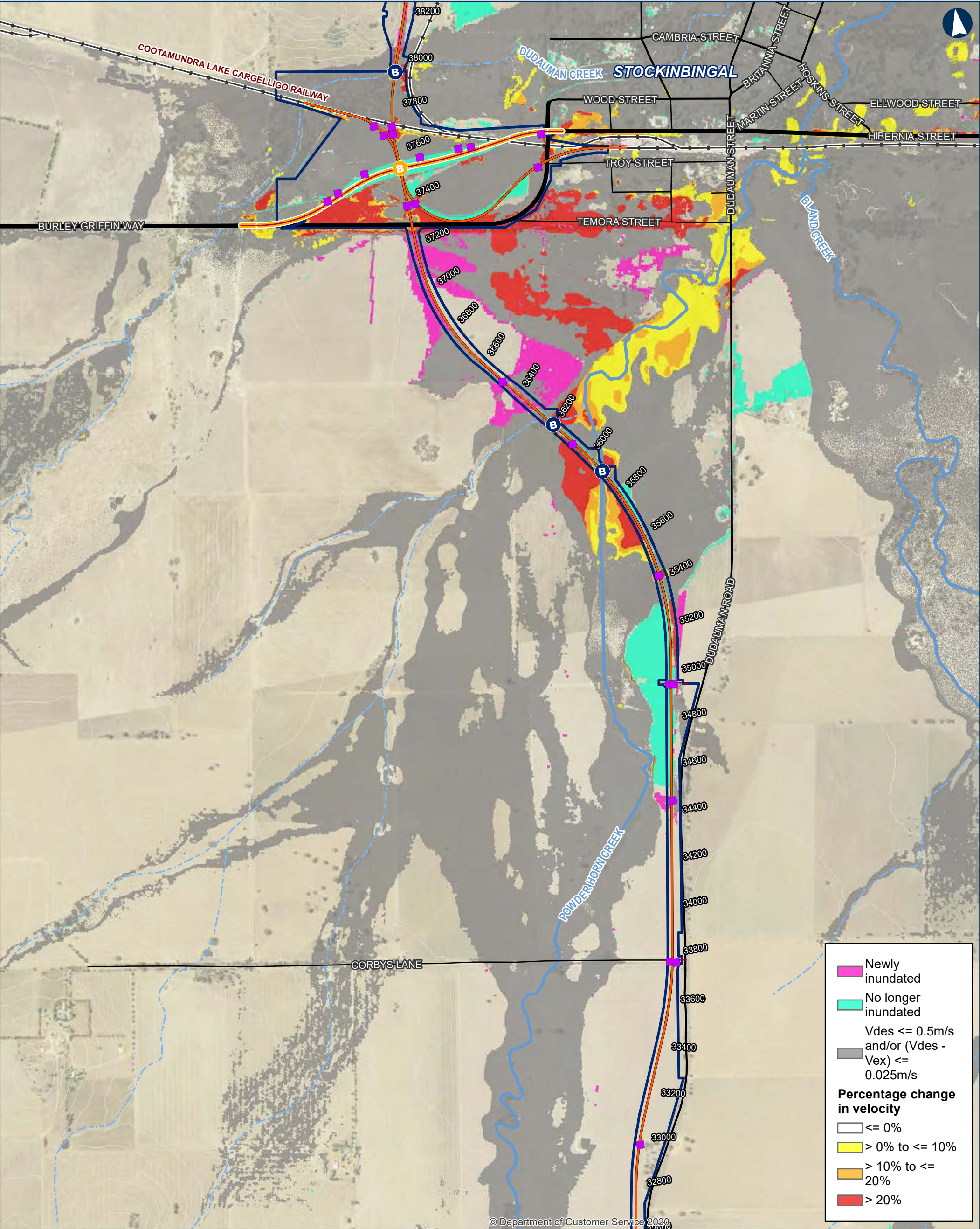
Local road

Sub-arterial road

Arterial road



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



ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

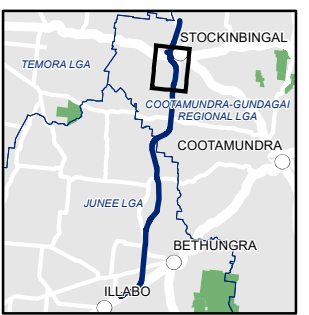
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

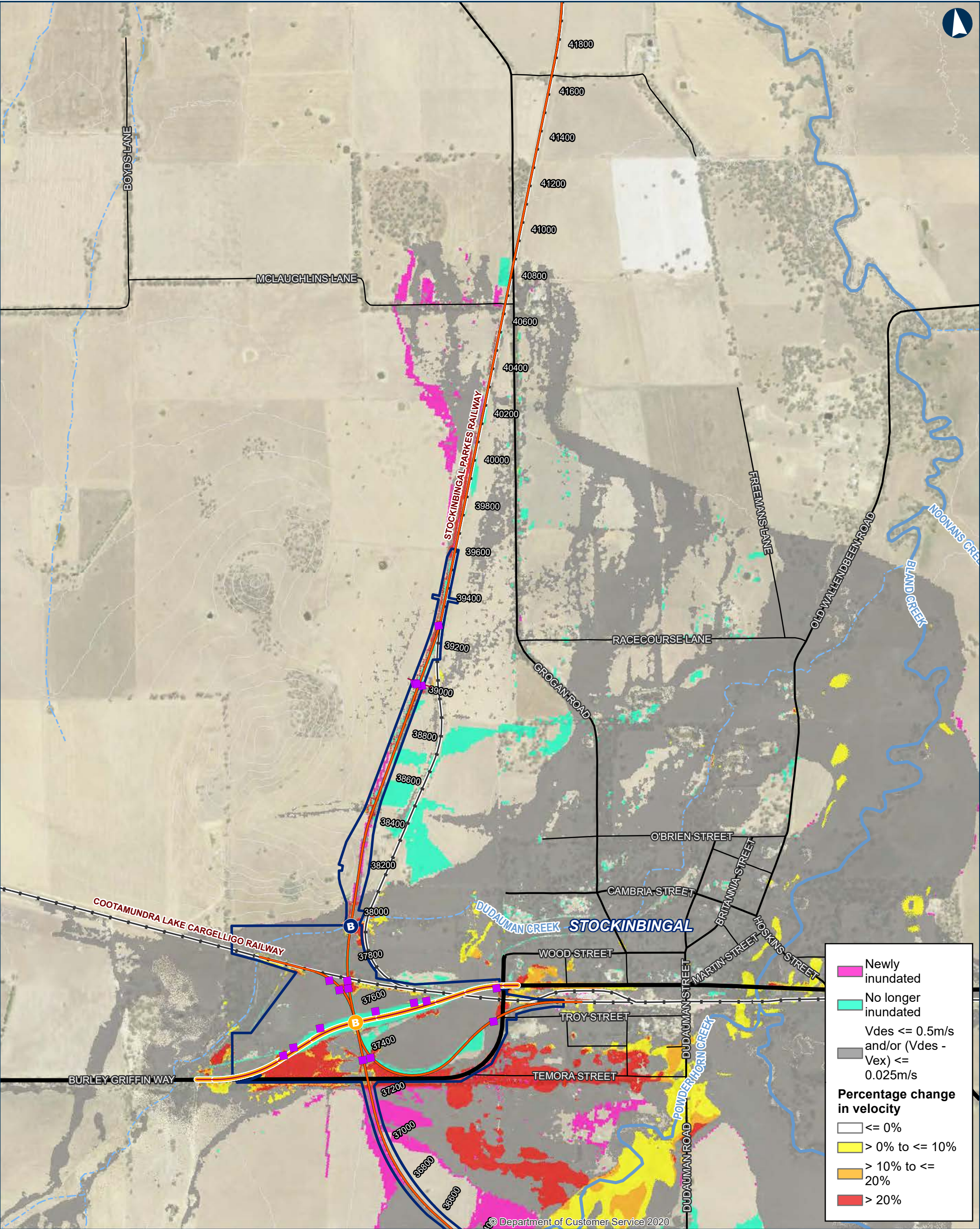
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

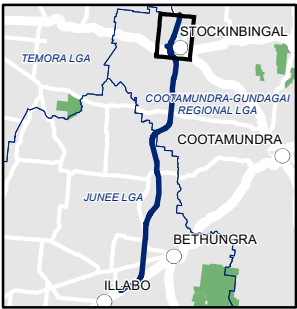
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

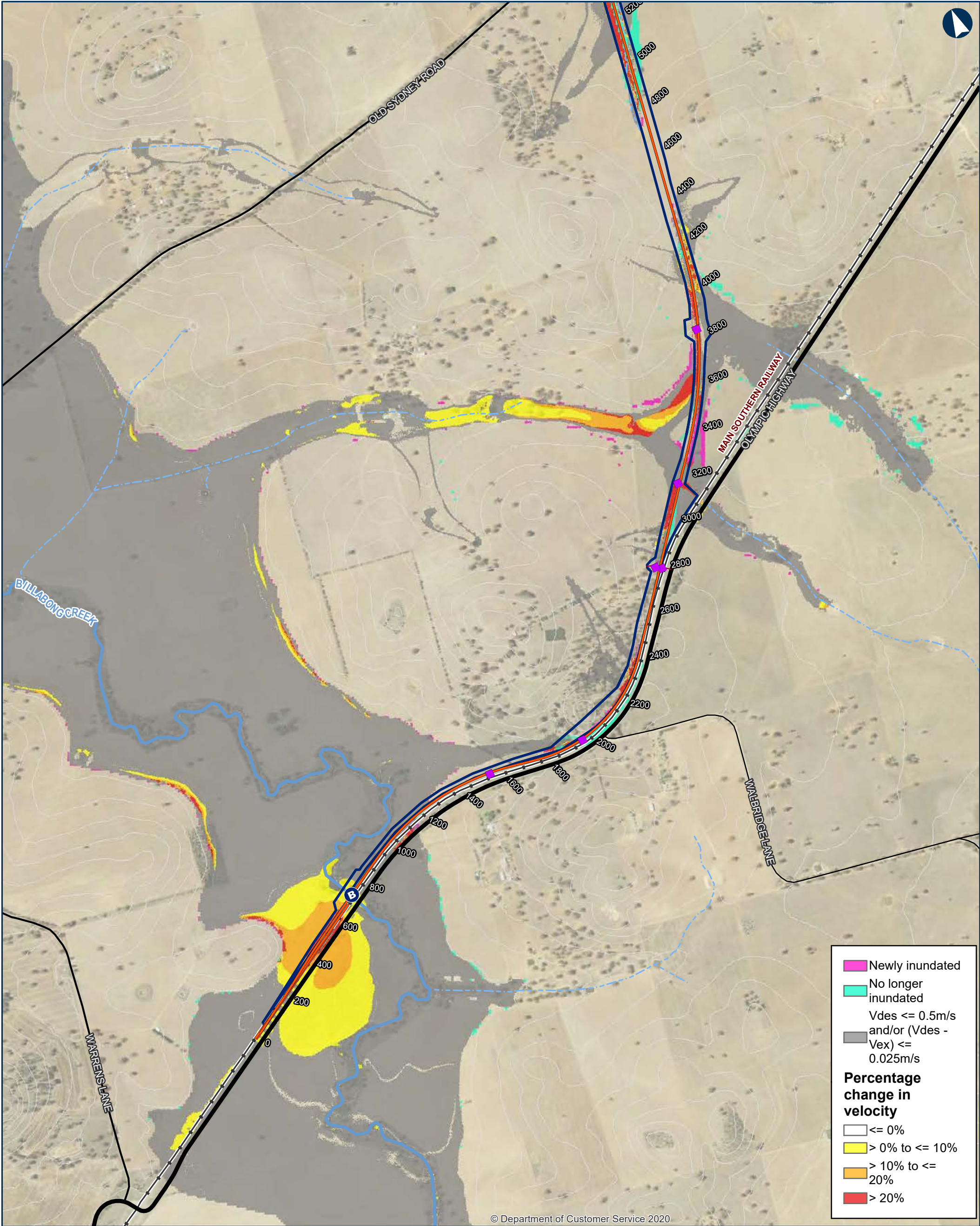
Sub-arterial road

Arterial road



INLAND RAIL = ARTC

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



ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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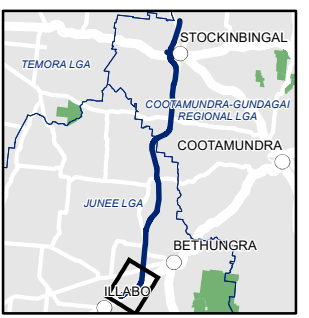
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Paper: A3
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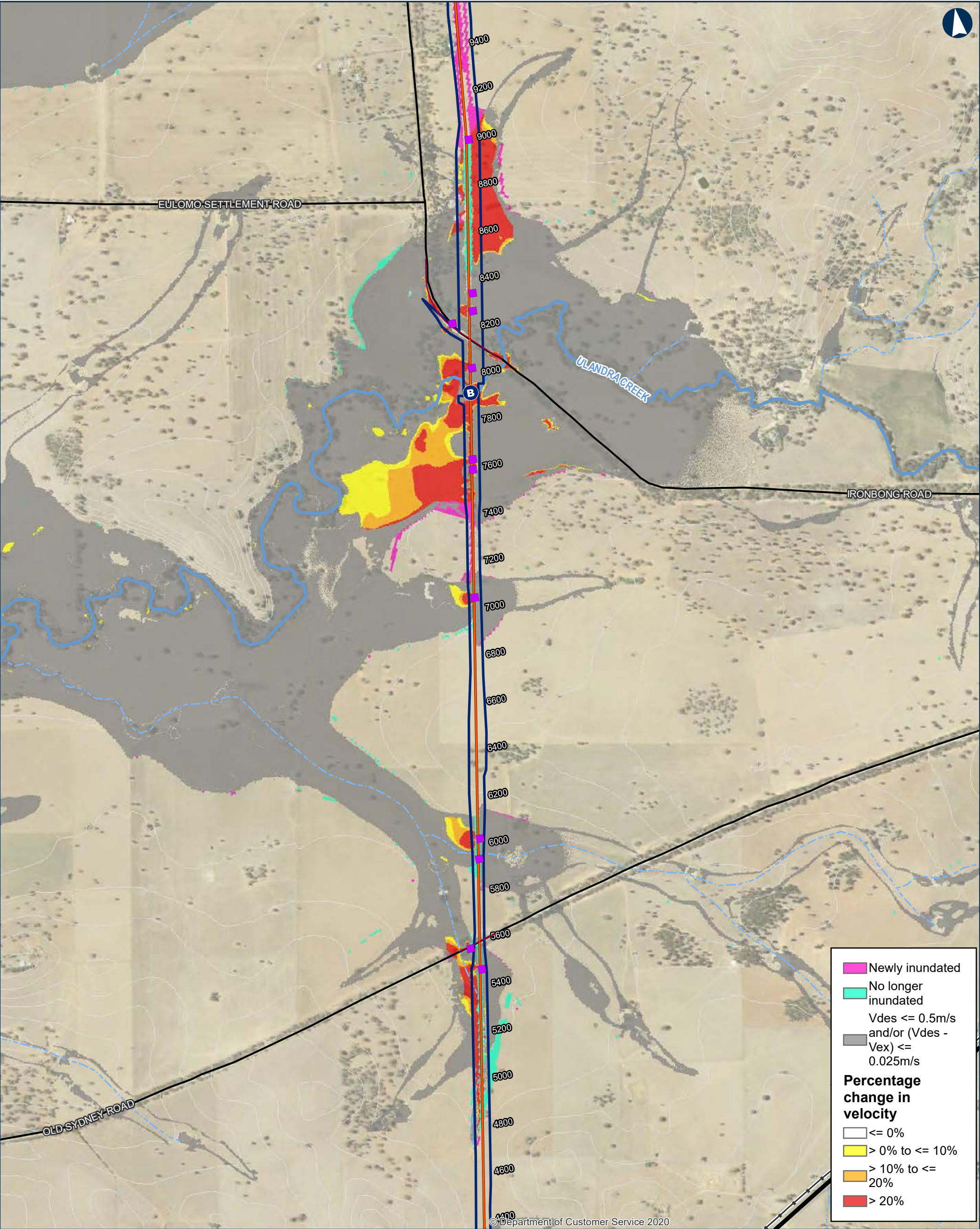
B Underbridge
■ Culvert
5m Contours
Existing rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)
Local road

Permanent acquisition boundary
Chainage (distance in metres from southern limit of the proposal)
40950
New track/track upgrade
B Overbridge

Sub-arterial road
Arterial road



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



ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

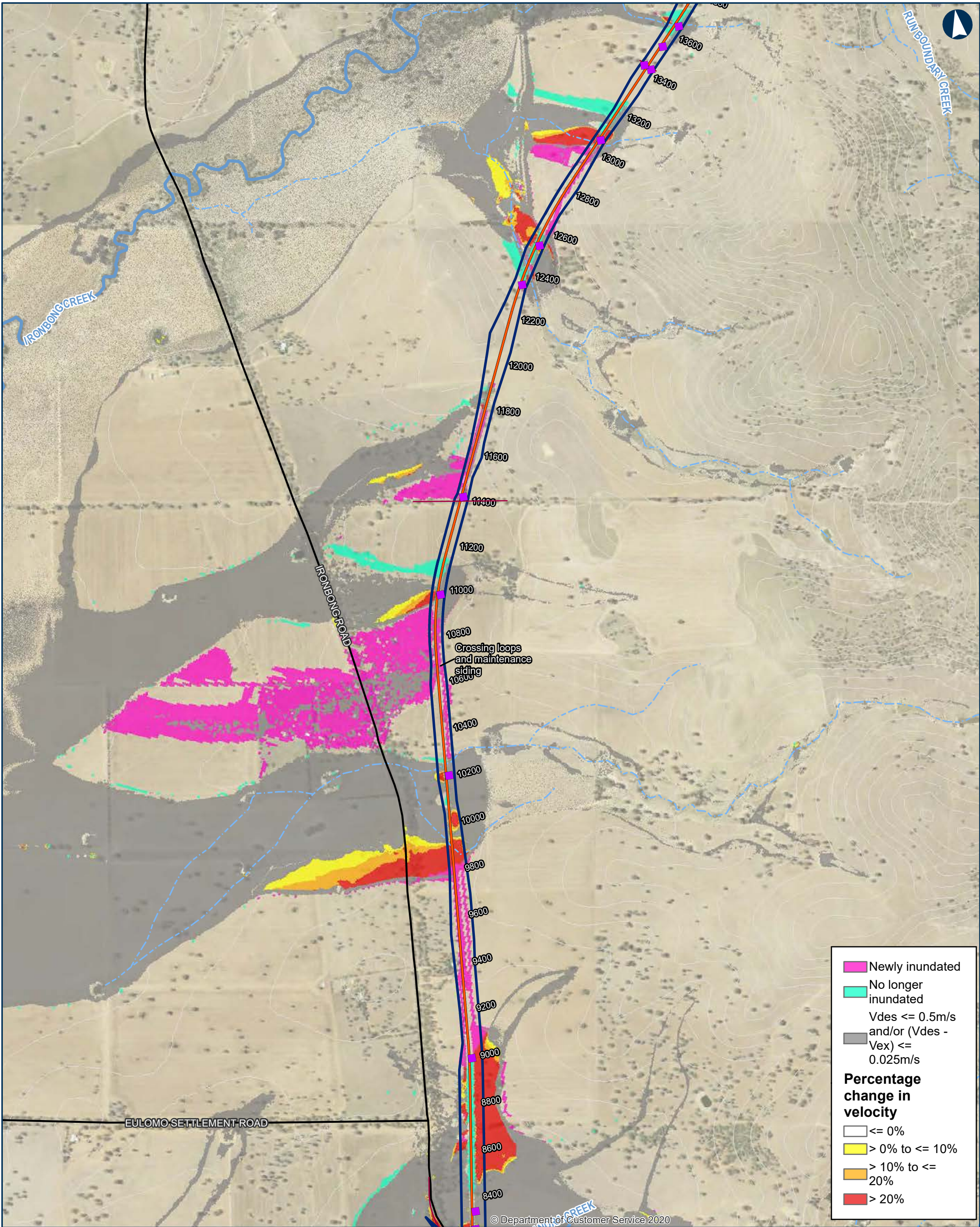
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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B Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

B Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

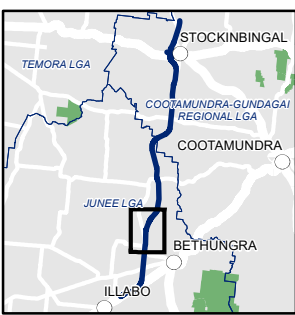
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

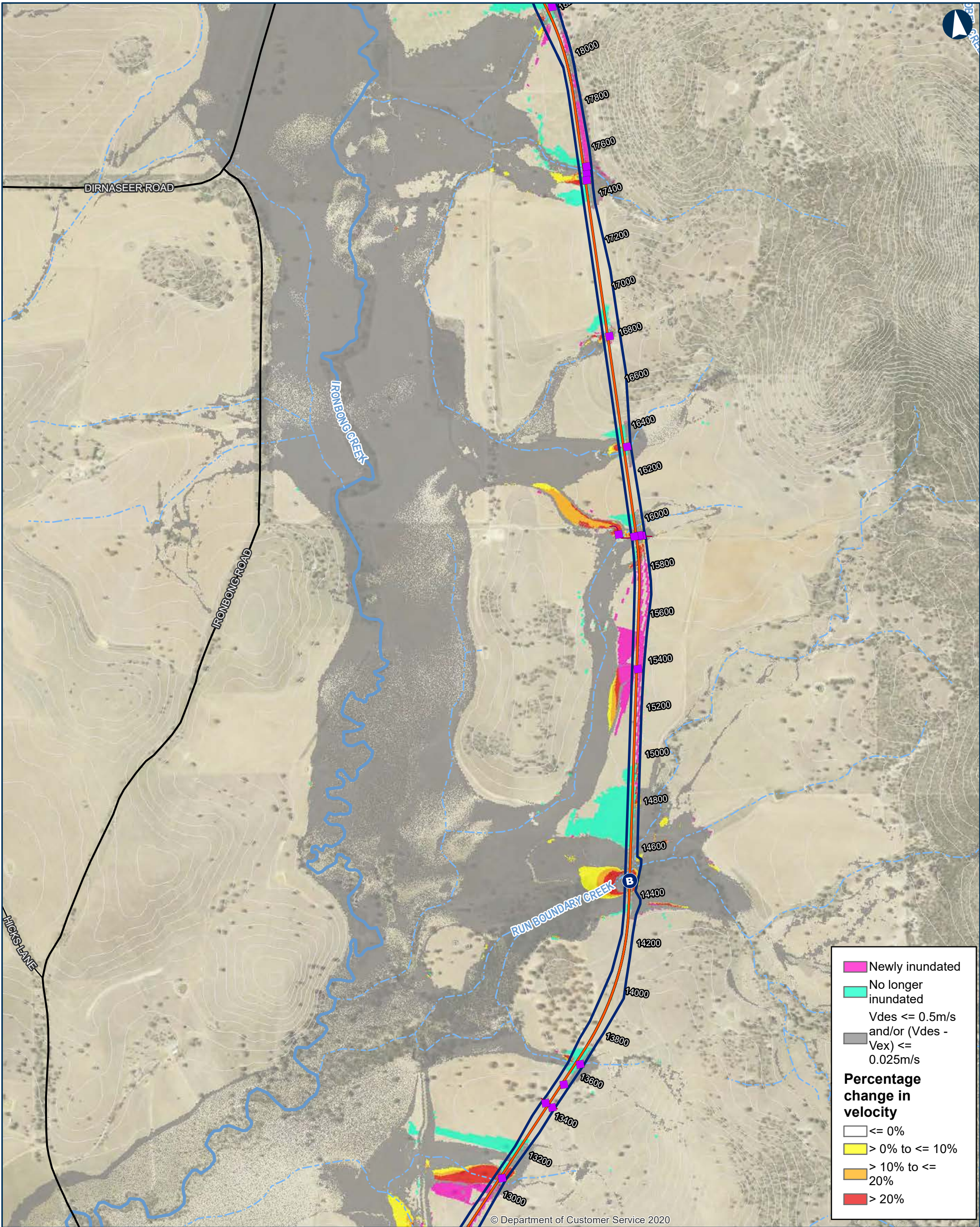
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

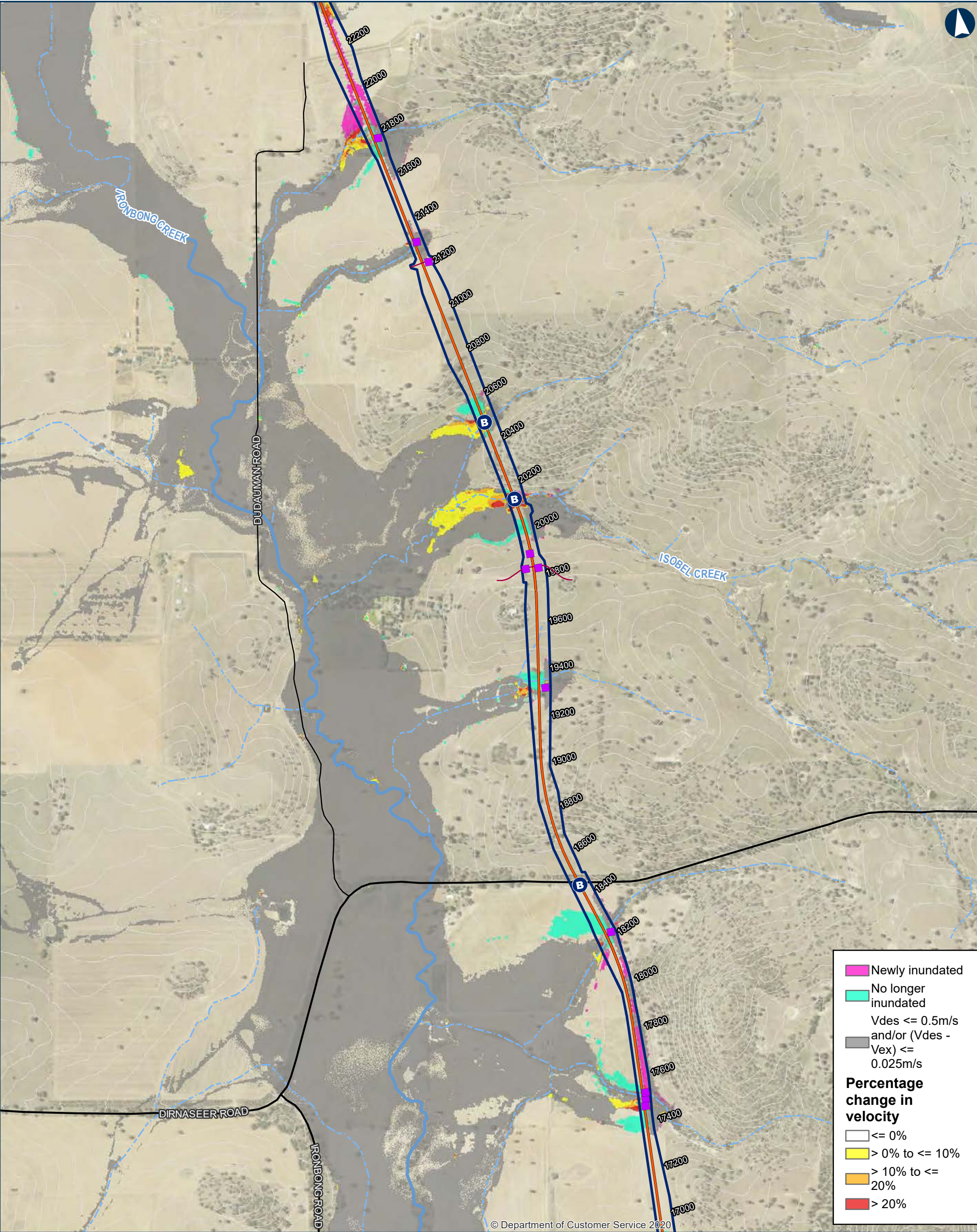
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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40950 Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

B New track/track upgrade

B Overbridge

B Underbridge

B Culvert

5m Contours

Existing rail

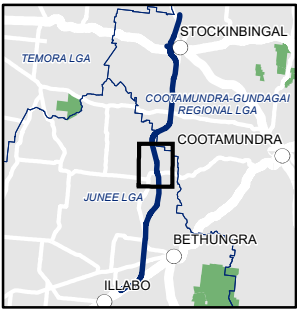
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

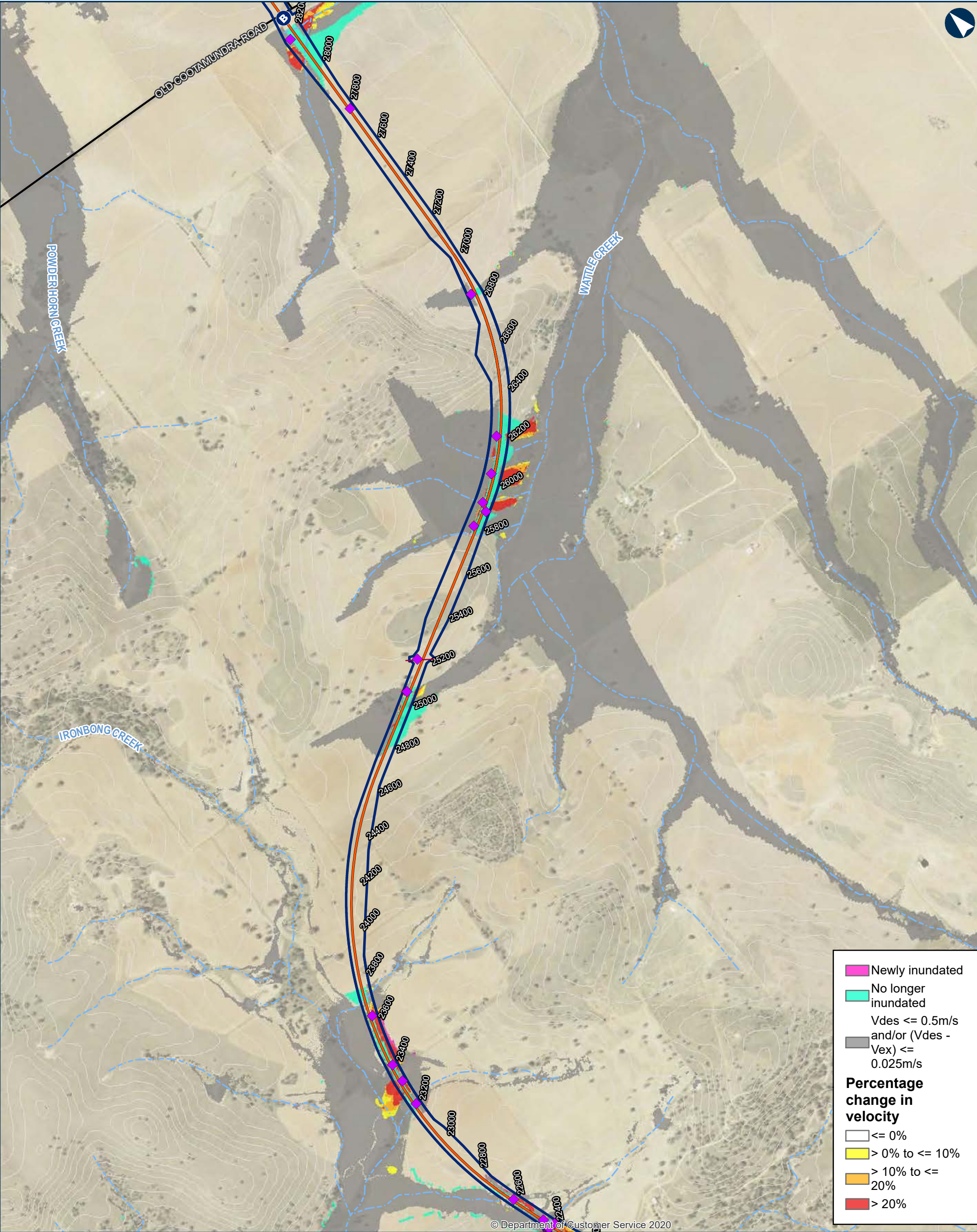
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950 Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

B Underbridge

■ Culvert

B Overbridge

5m Contours

Existing rail

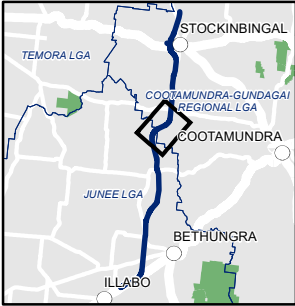
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

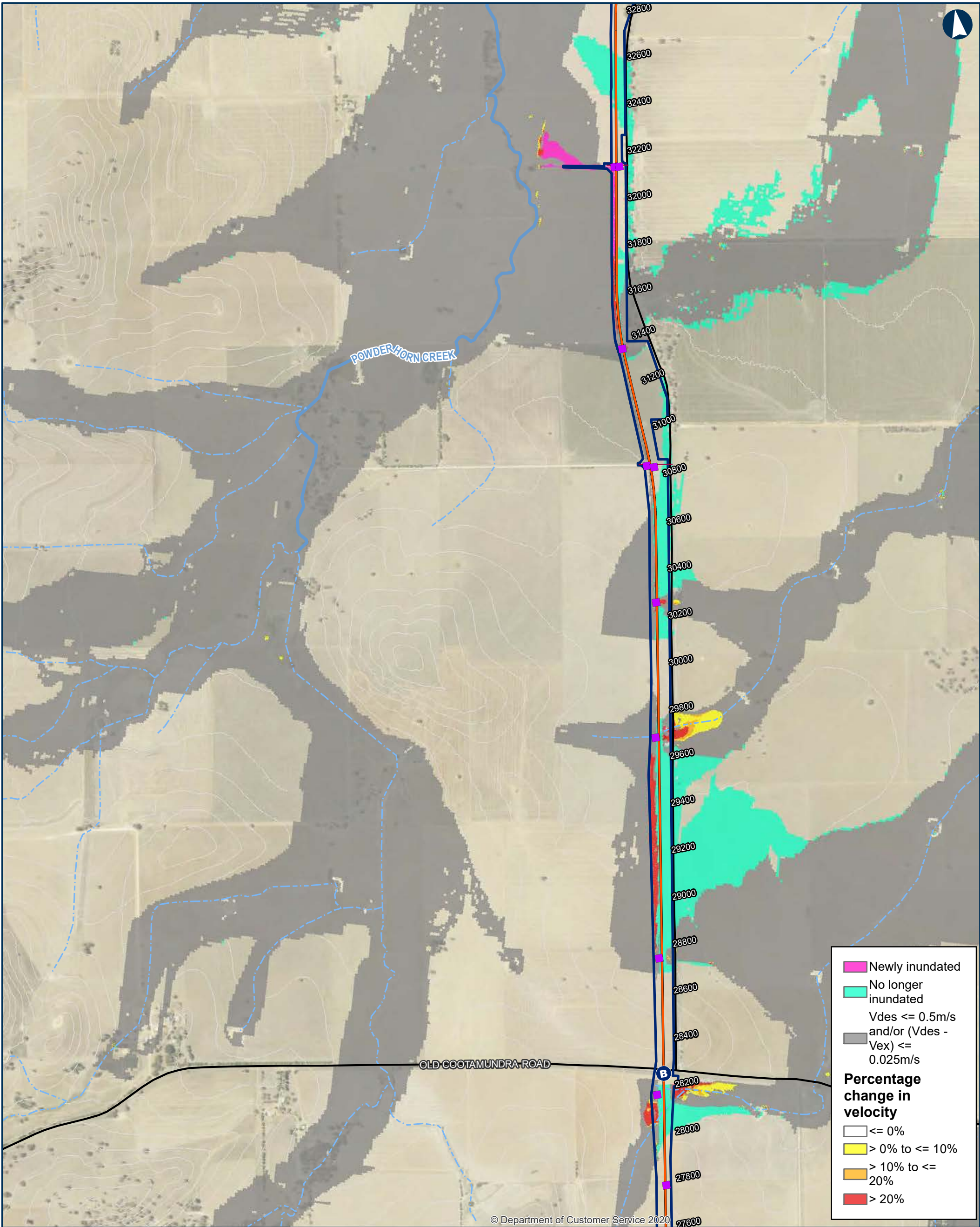
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

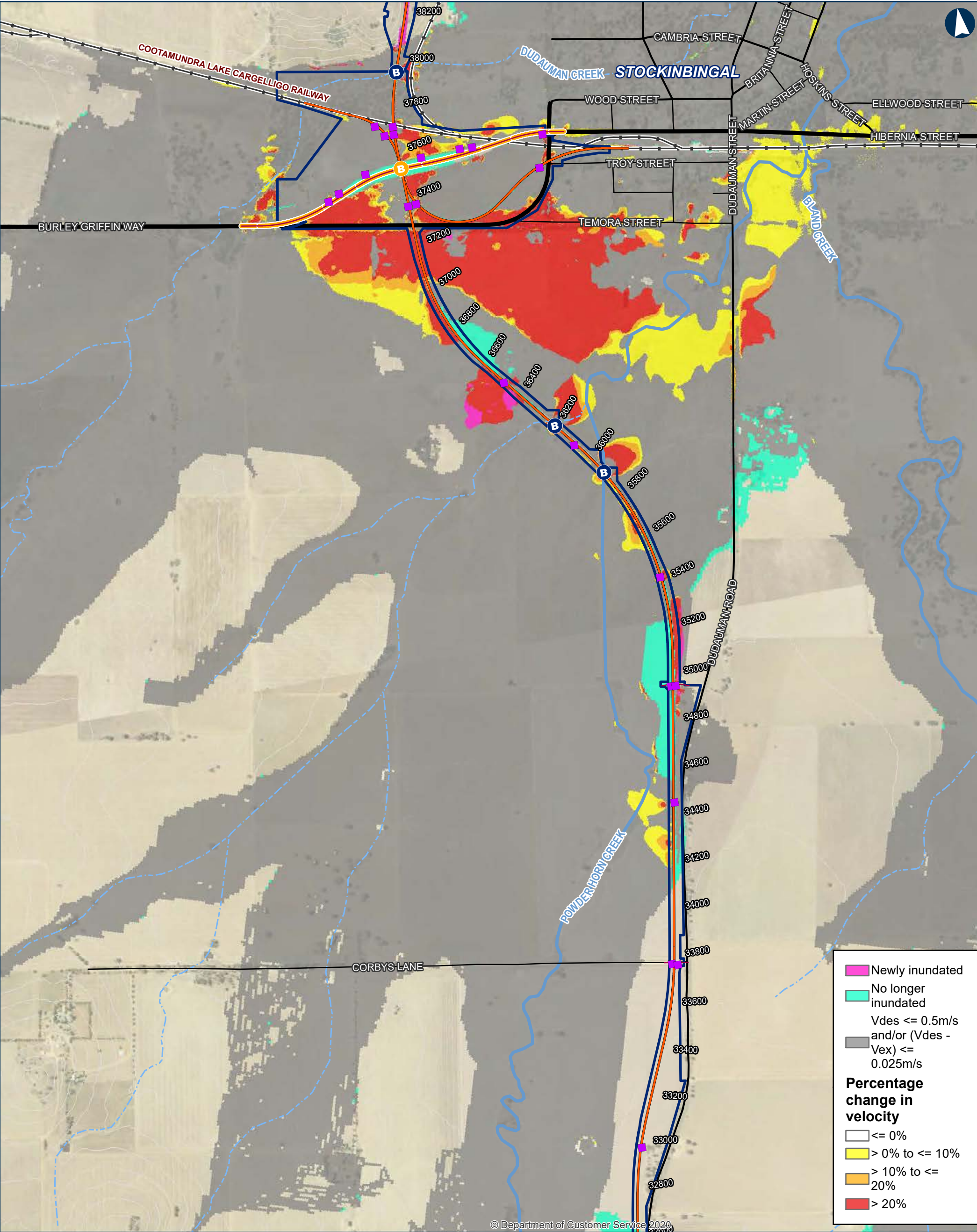
Local road

Sub-arterial road

Arterial road



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0200400Metres

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Date: 23/10/2023
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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

STOCKINBINGAL

ILLABO

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

JUNE LGA

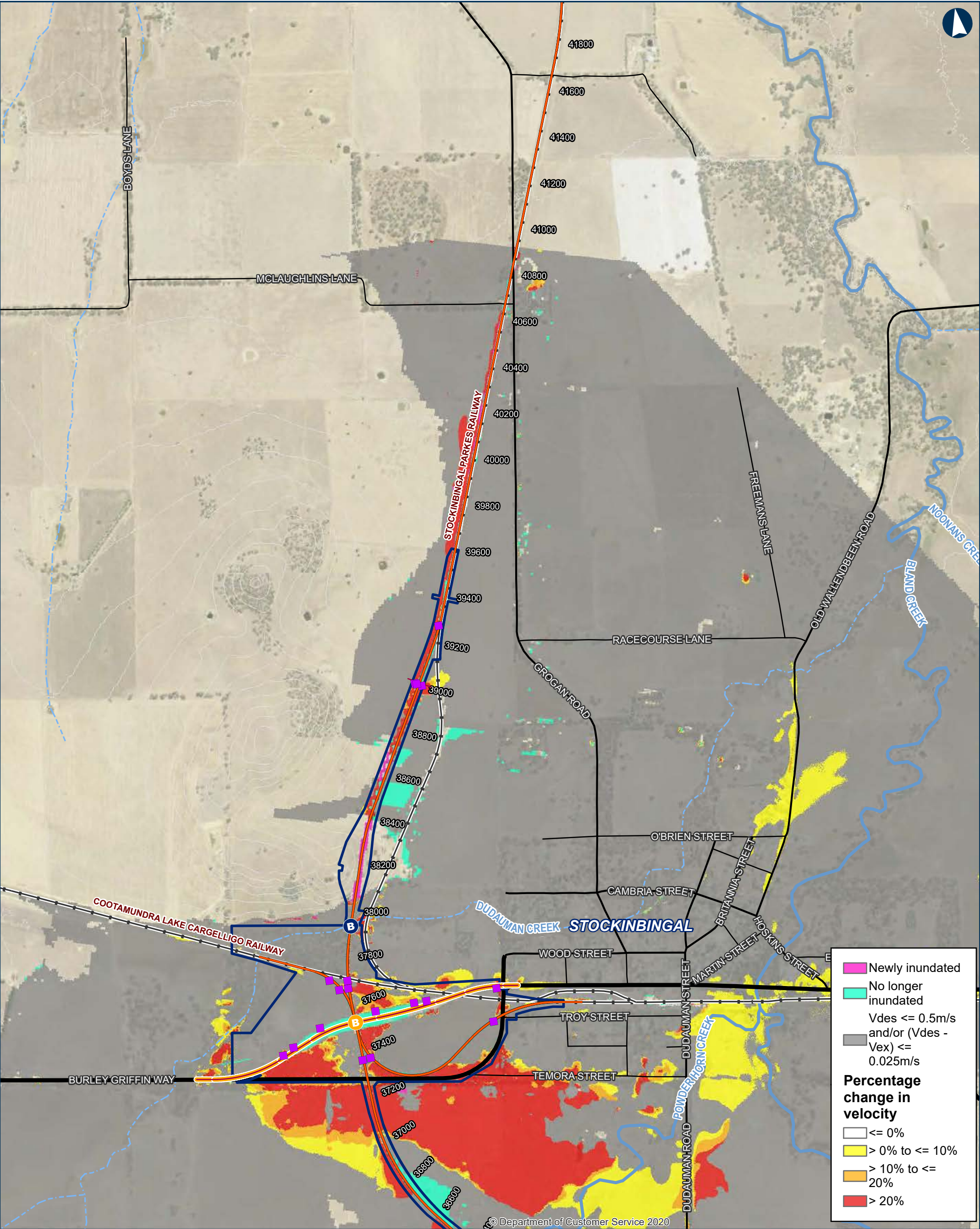
BETHUNGRA

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWSP\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\PMF\220_0122_HYD_PMFVelocityChange_v5.mxd



ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

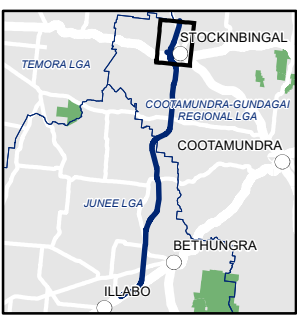
0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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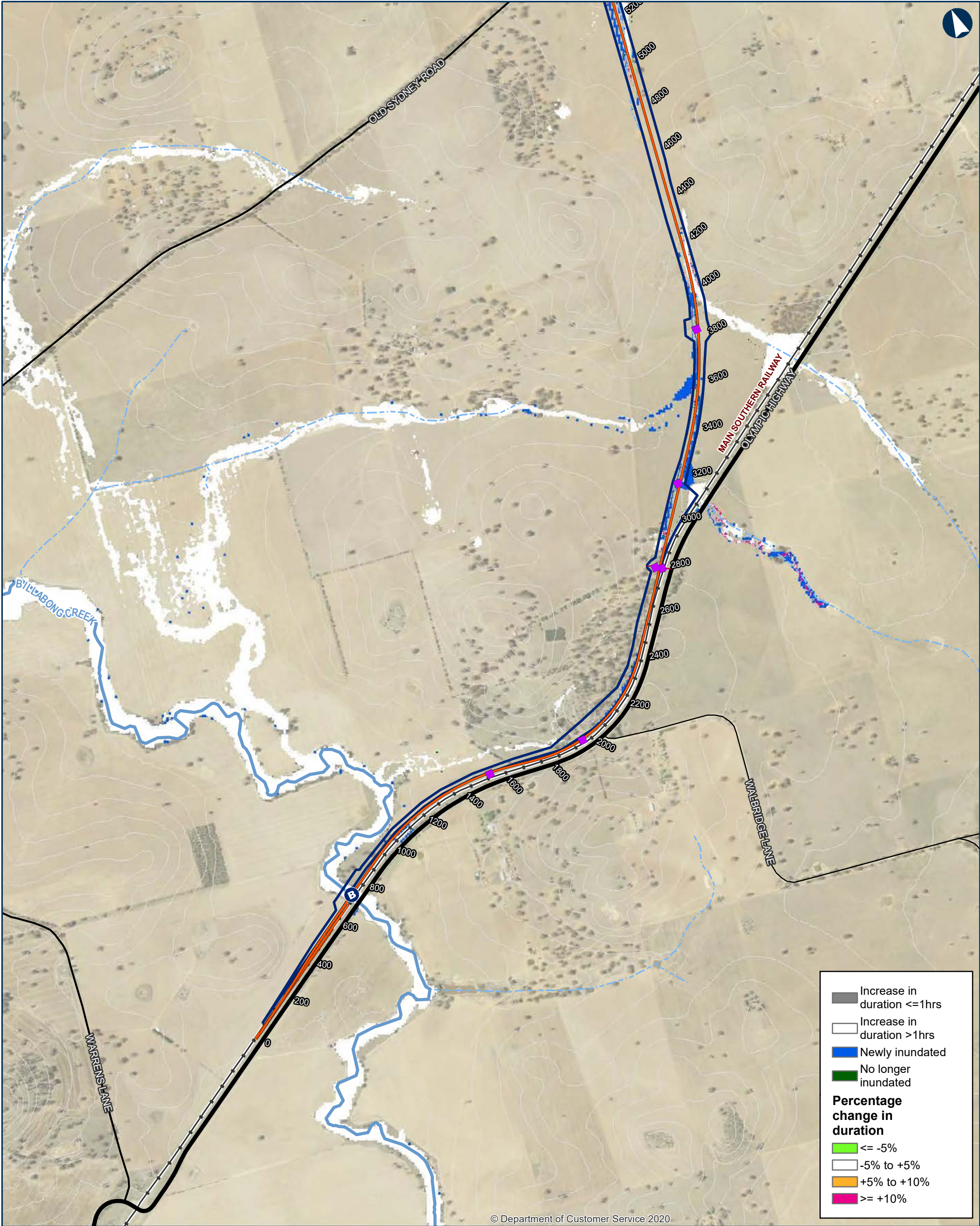
Date: 23/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Burley Griffin Way realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



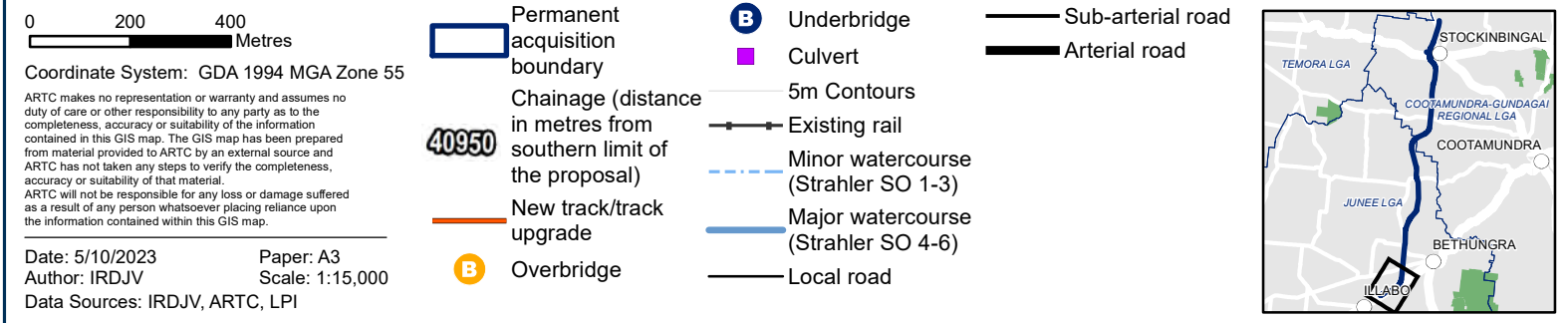
INLAND RAIL ARTC

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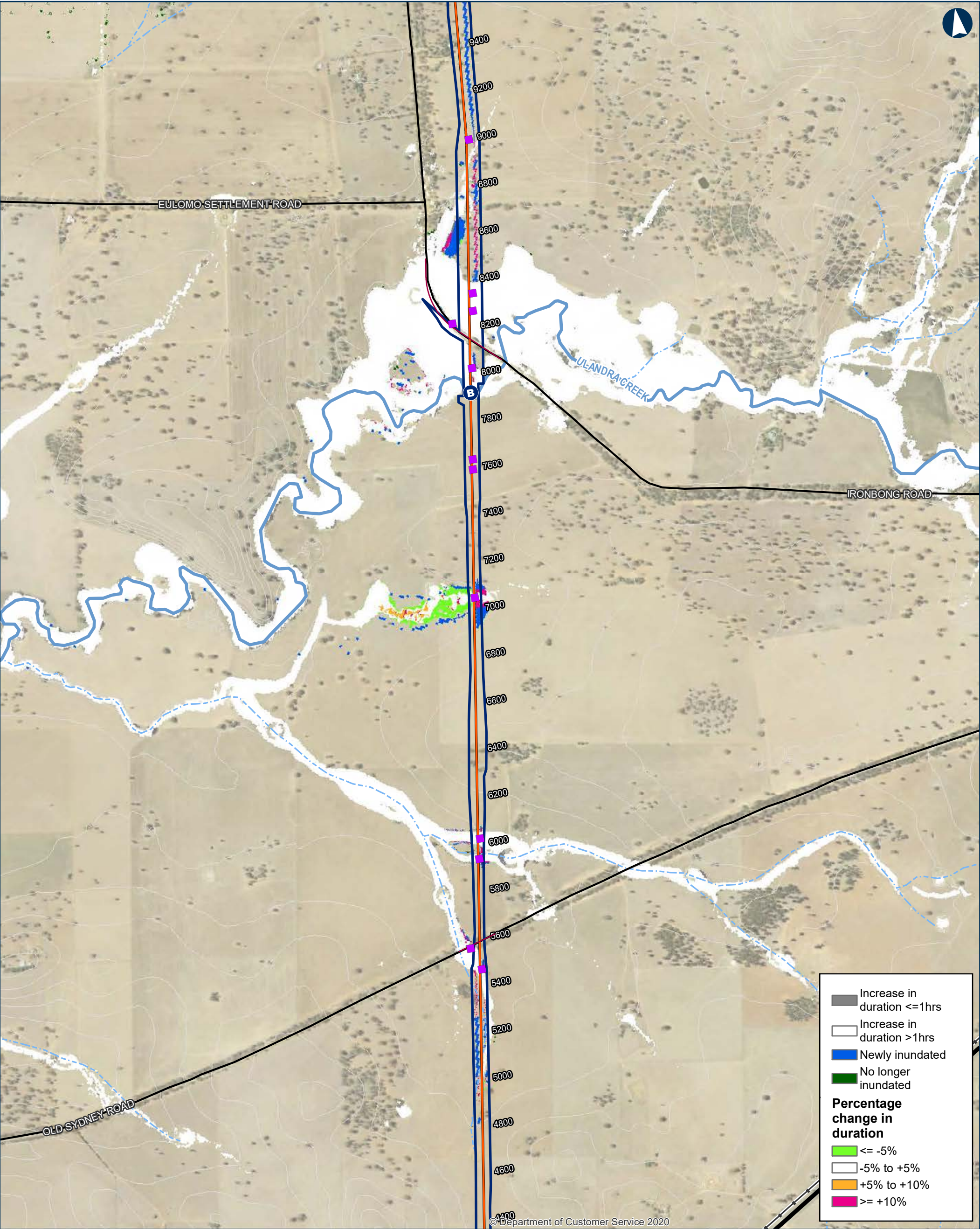
ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

Map 1 of 9



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

Map 2 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

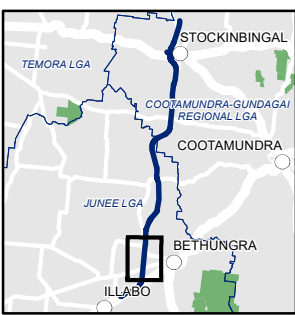
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

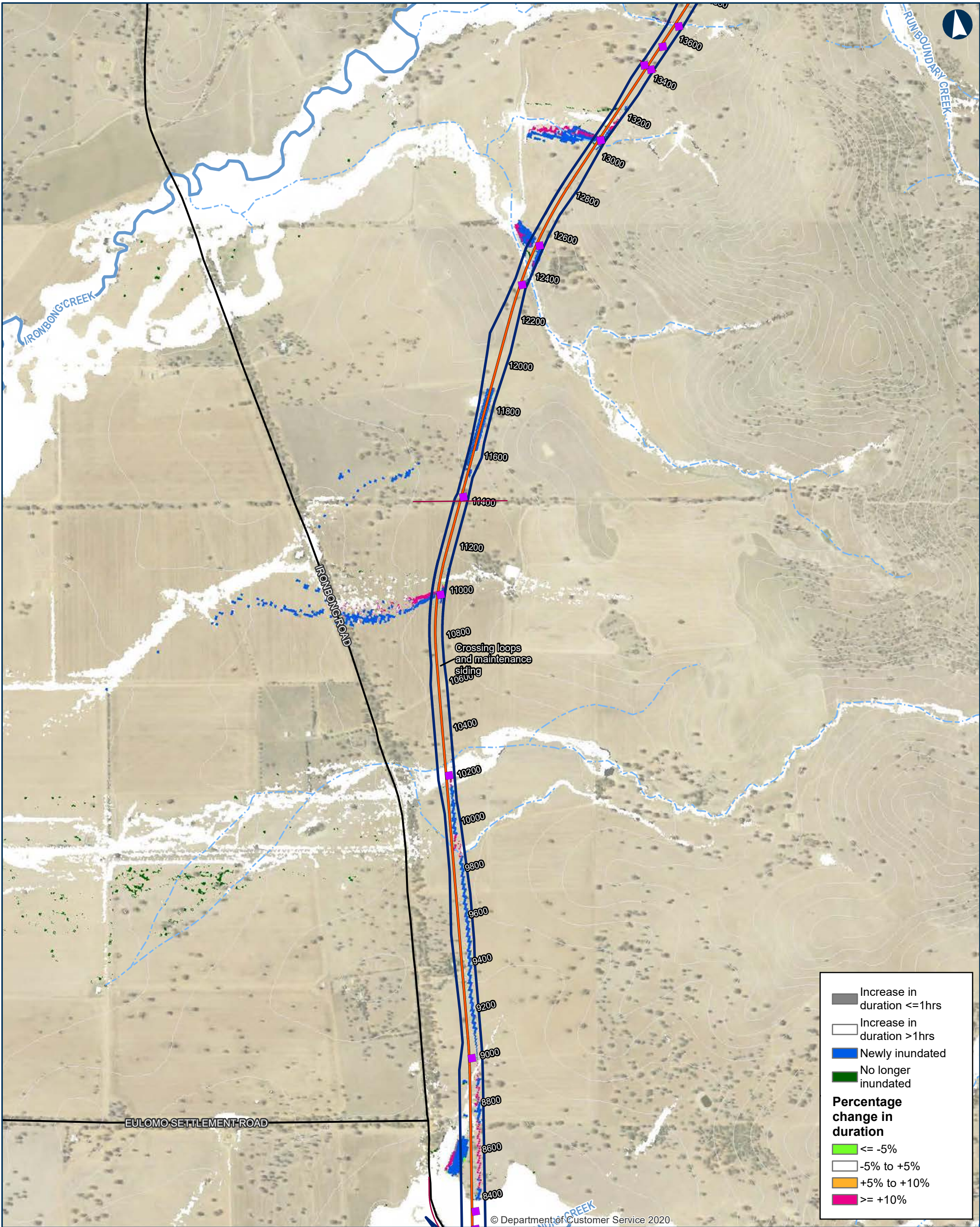
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

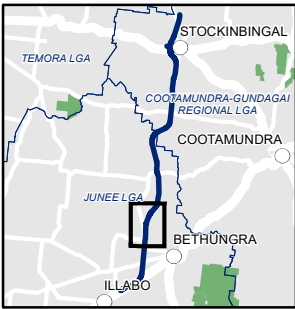
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Overbridge

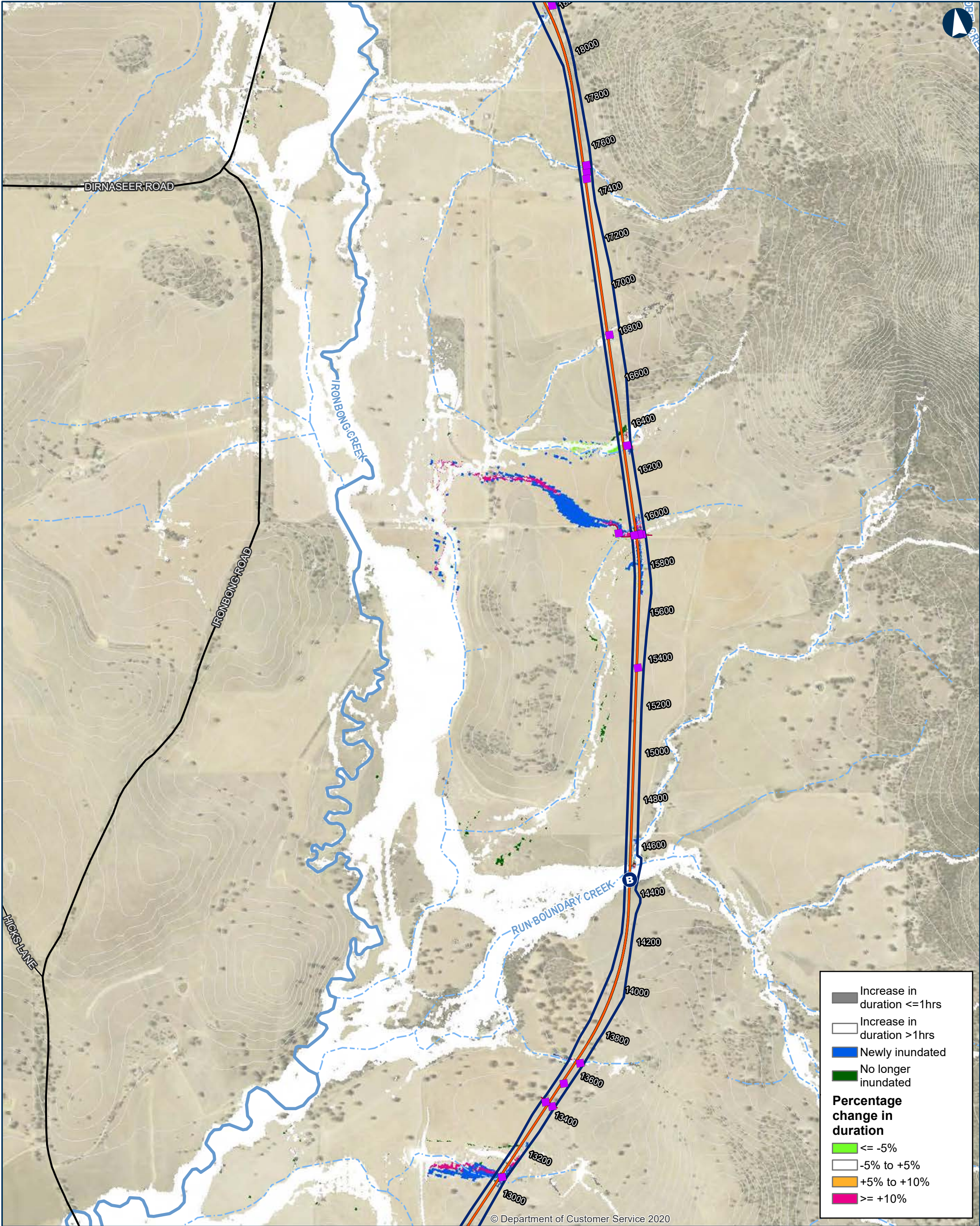
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



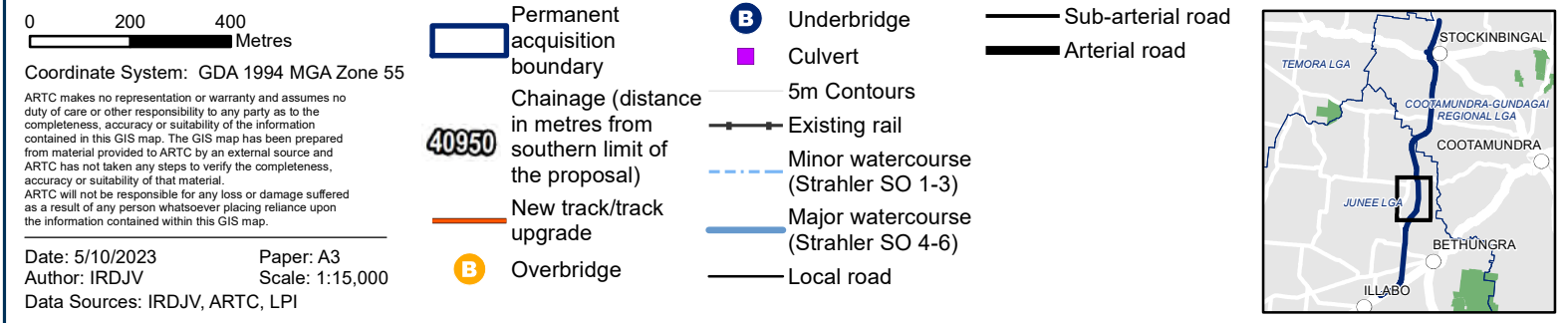
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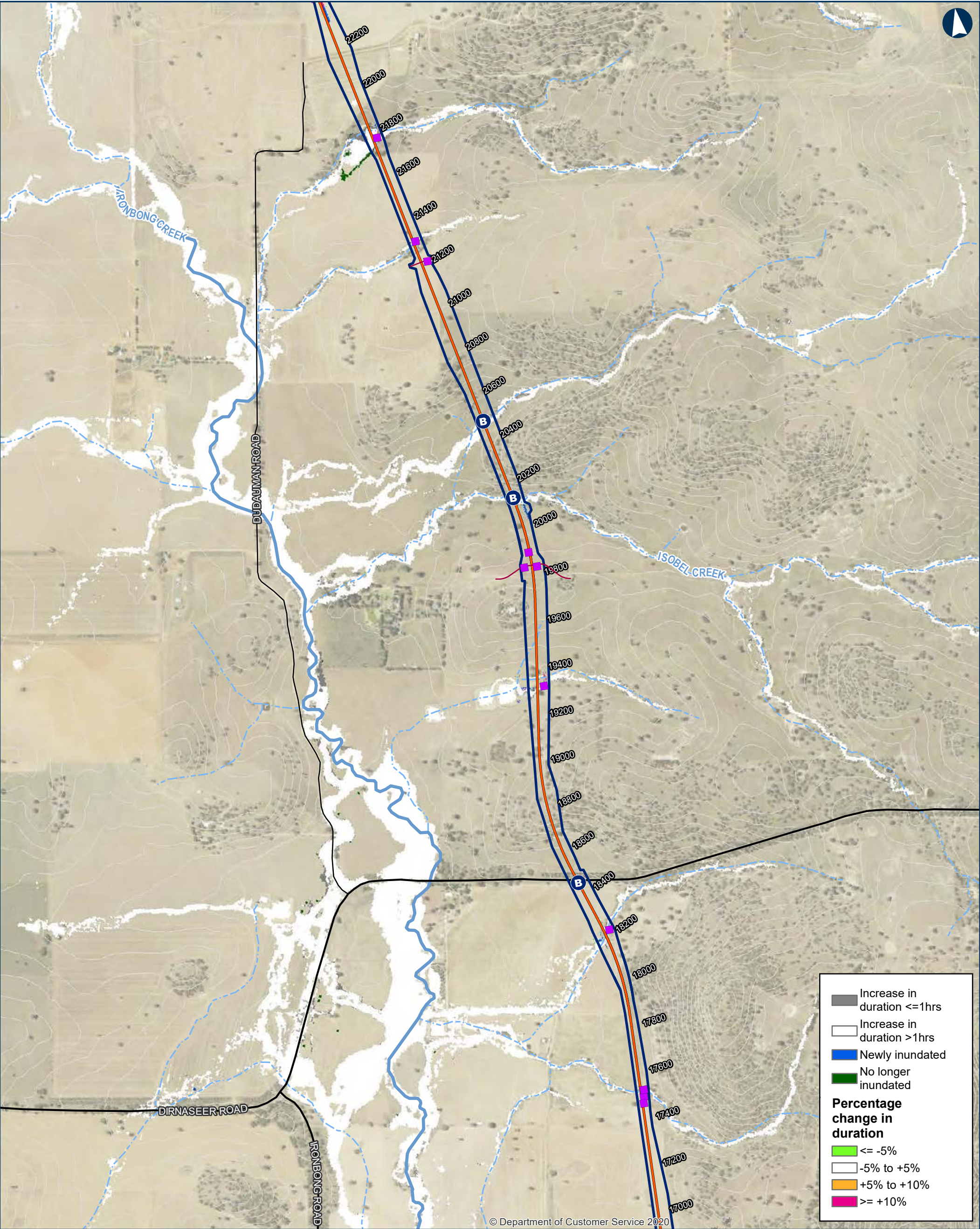
ILLABO TO STOCKINBINAL 0.2EY Change in Duration

Map 4 of 9



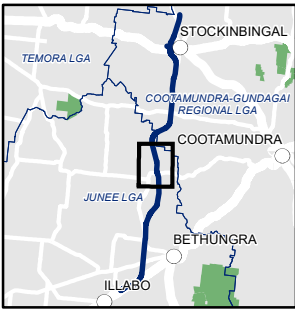
INLAND RAIL **ARTC**

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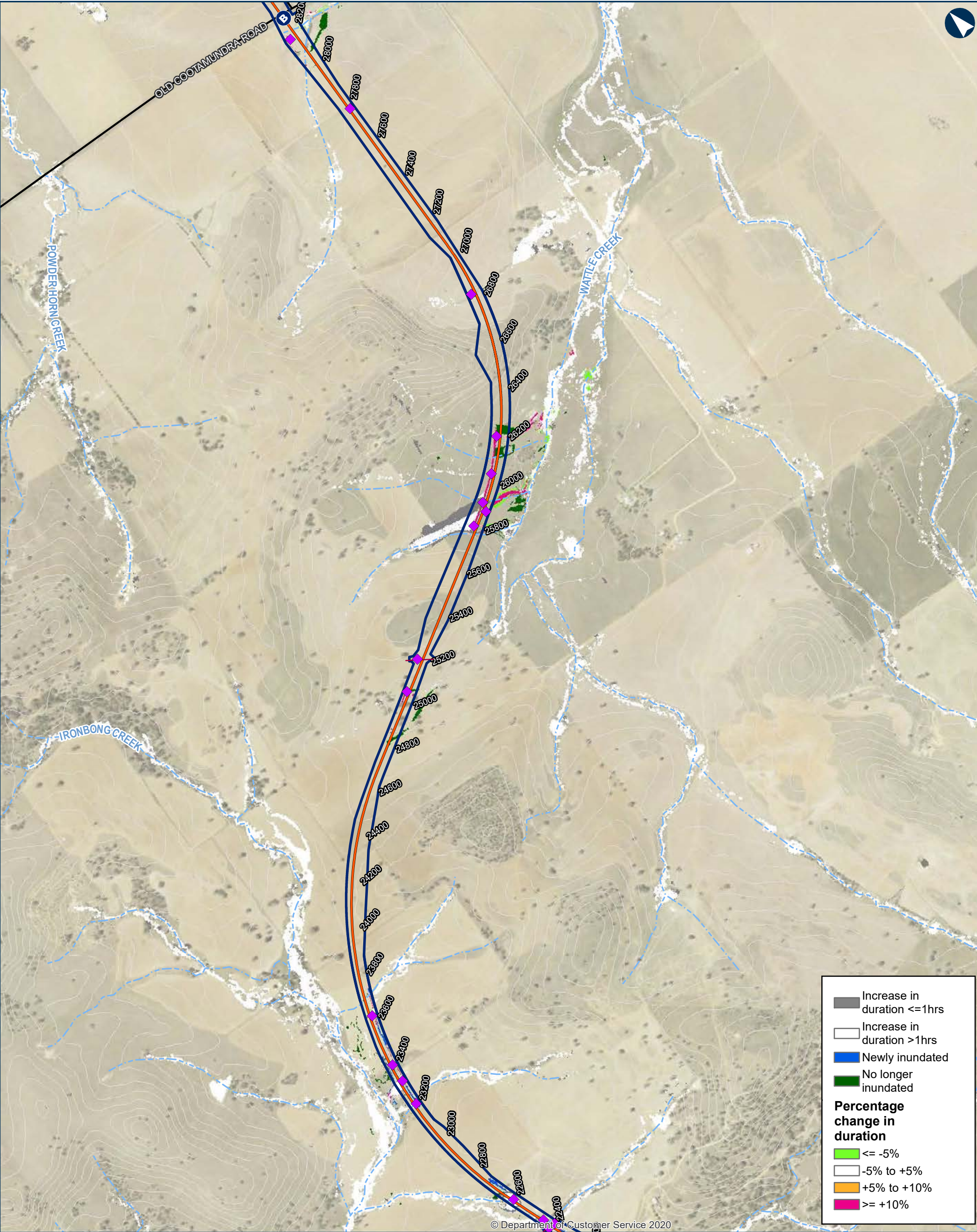
ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

Map 5 of 9



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

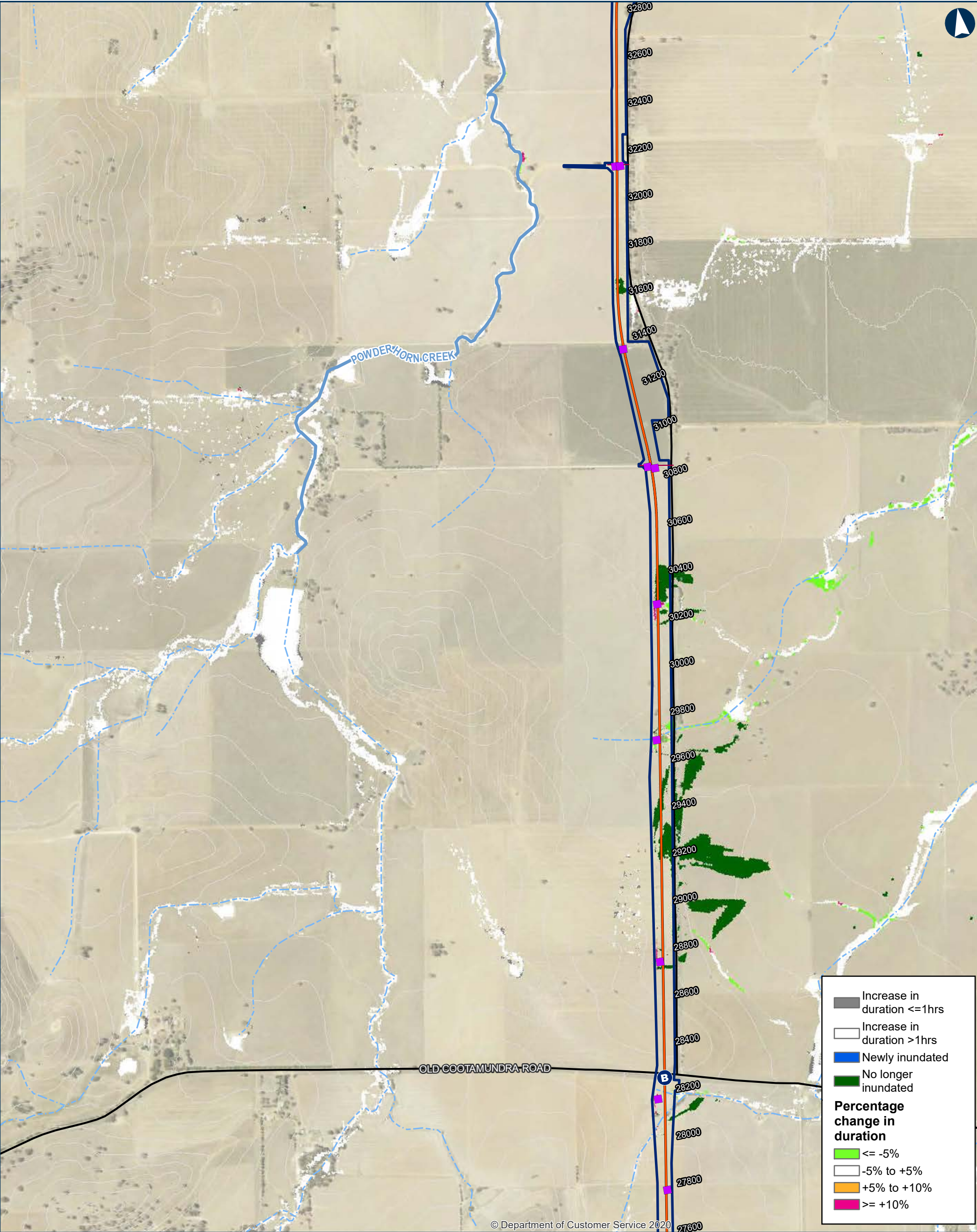
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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



ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

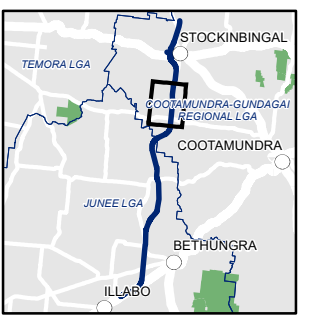
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

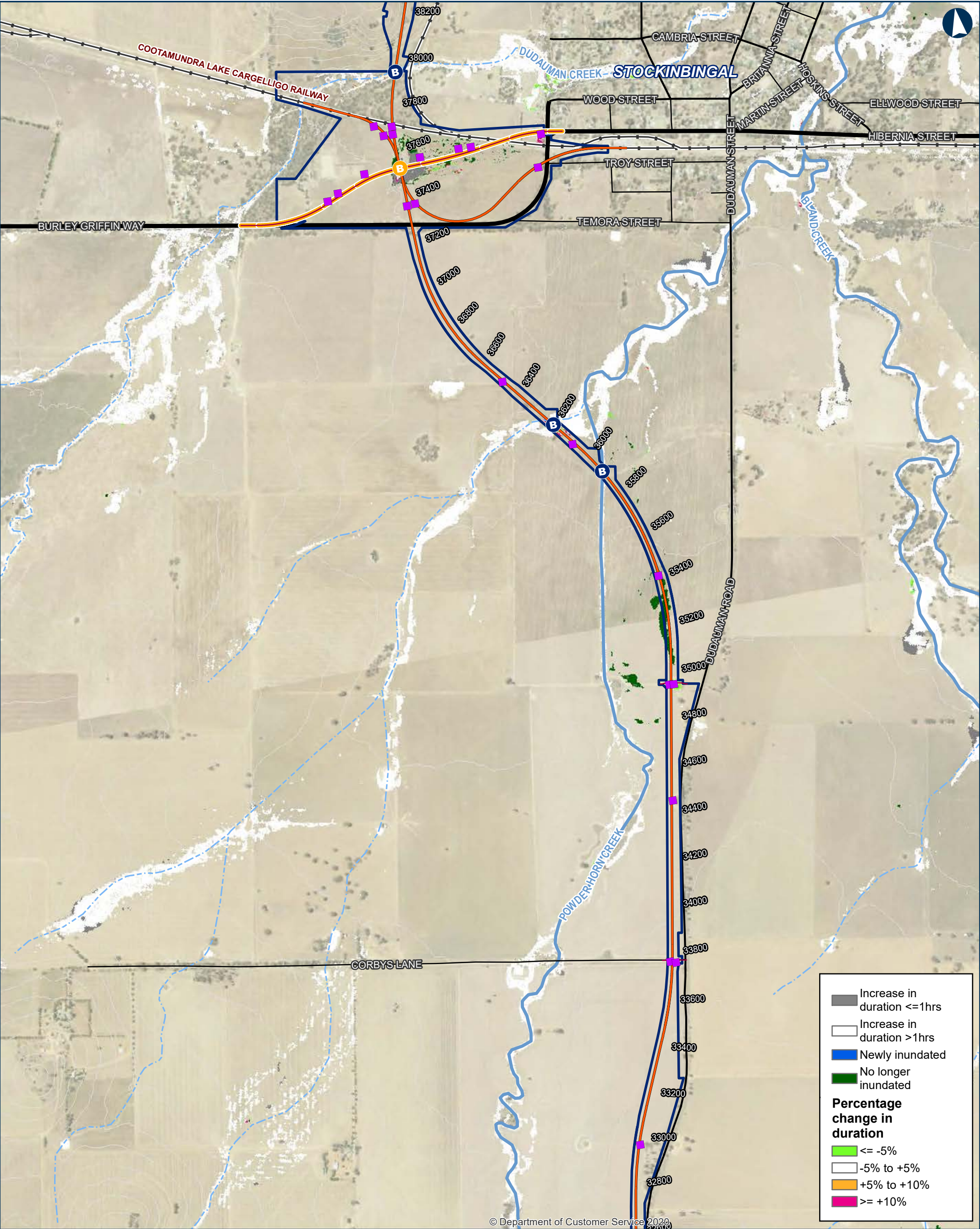
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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



0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 5/10/2023

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

B

Overbridge

B

Underbridge

■

Culvert

—

5m Contours

—

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

—

Local road

—

Sub-arterial road

—

Arterial road

ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

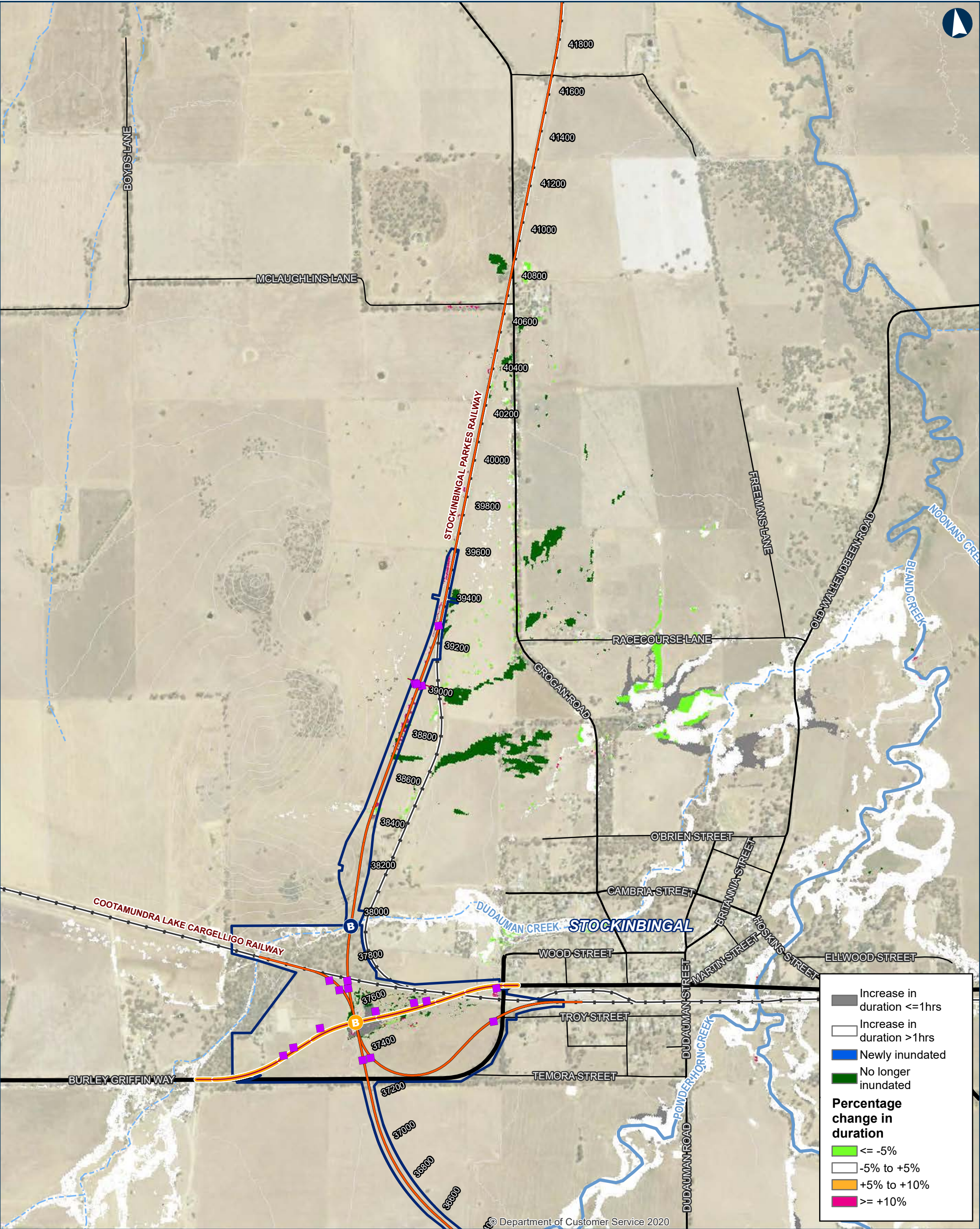
Map 8 of 9

INLAND RAIL

ARTC

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

\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\0_02EY\220_0122_HYD_0_2EYDuration_v5.mxd



ILLABO TO STOCKINBINGAL 0.2EY Change in Duration

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

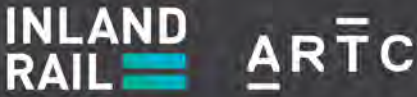
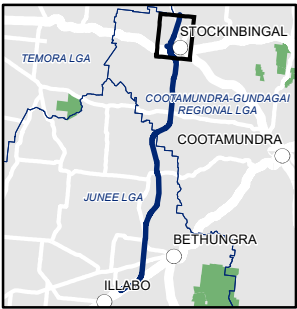
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

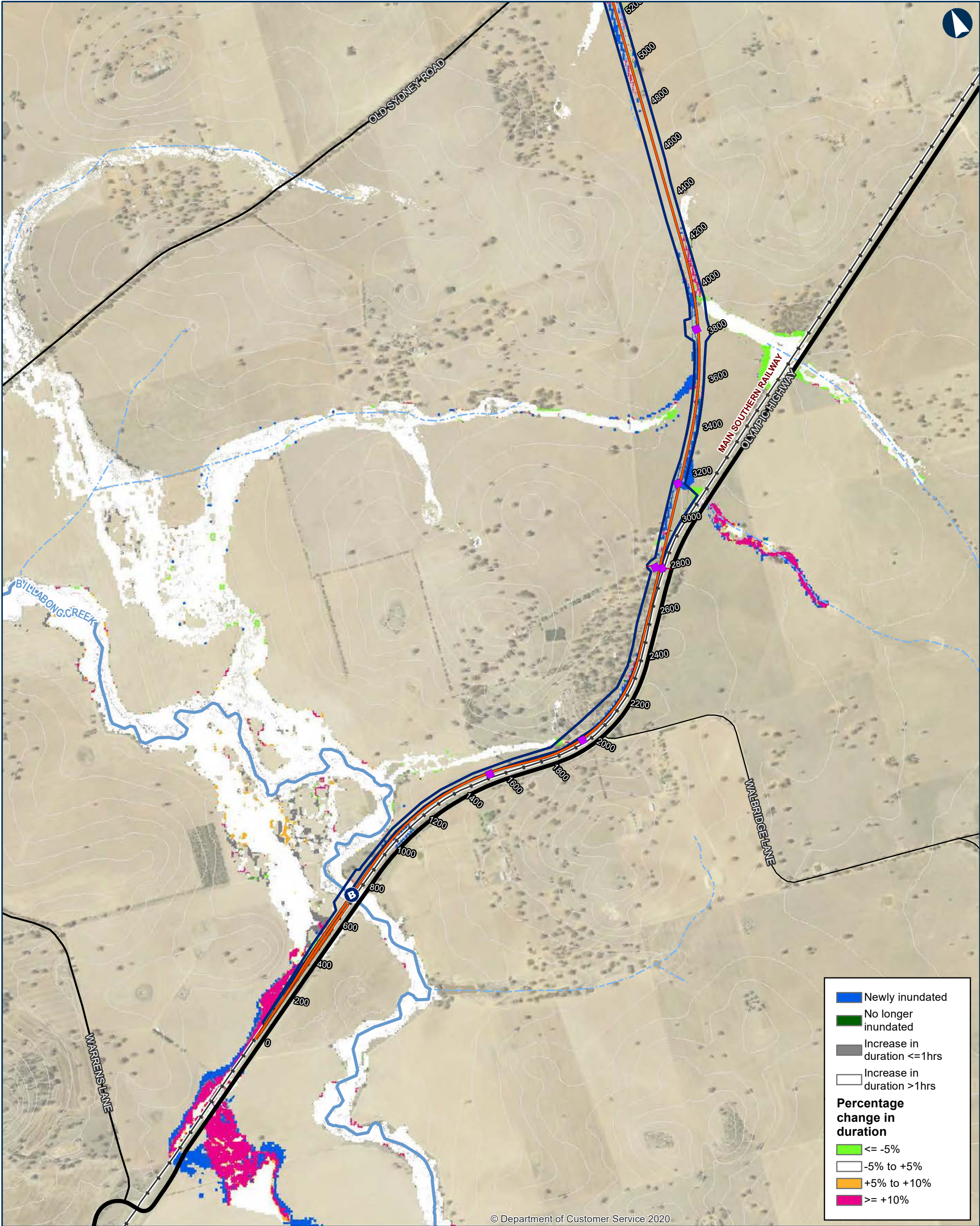
Local road

Sub-arterial road

Arterial road



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



ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge
Culvert

5m Contours

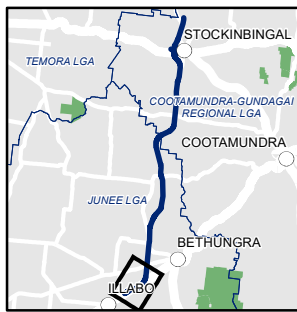
Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

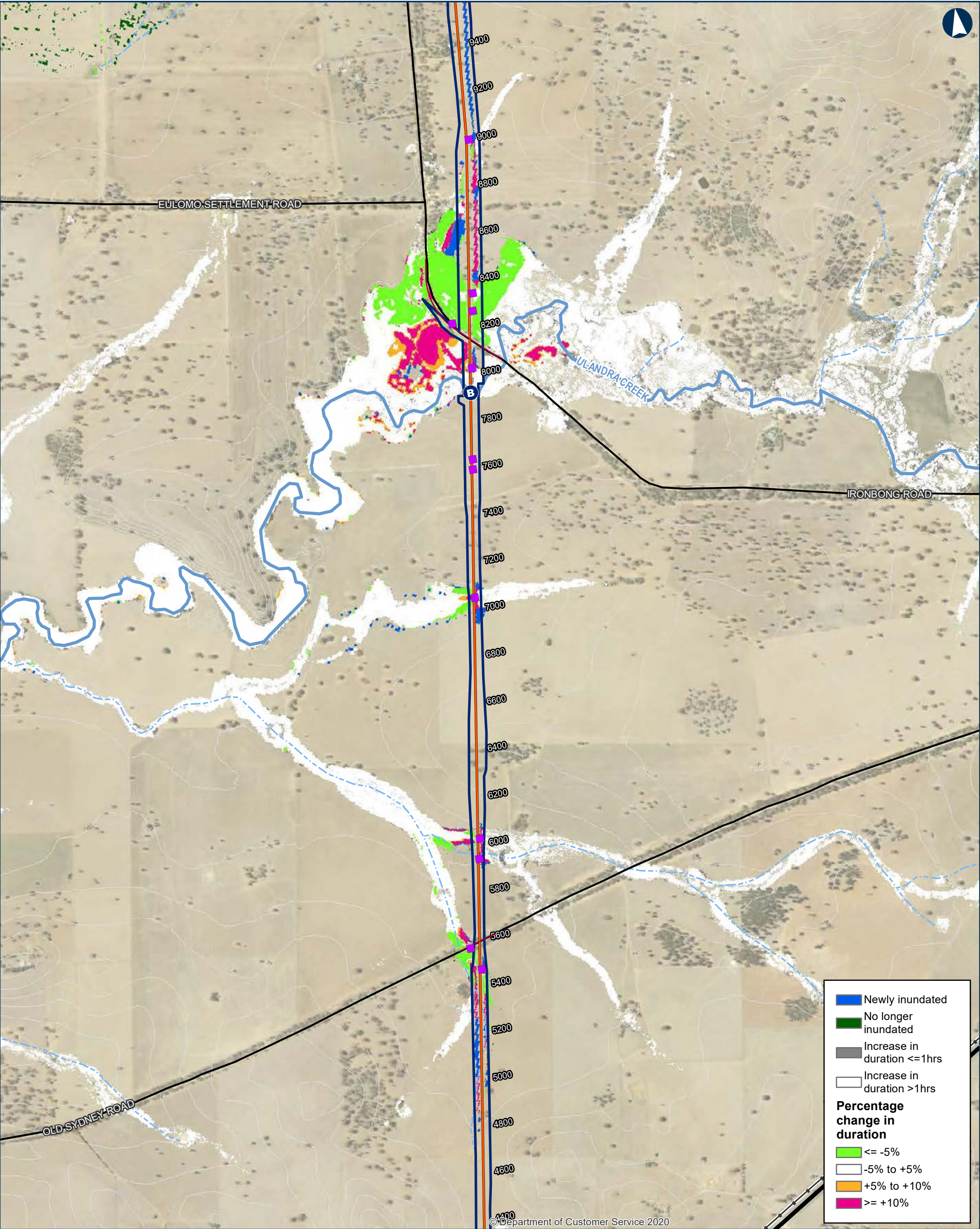
Local road

Sub-arterial road
Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

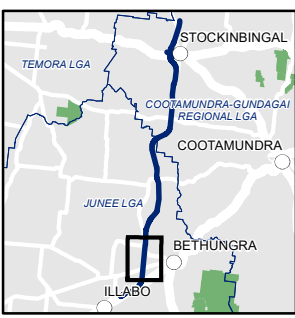
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

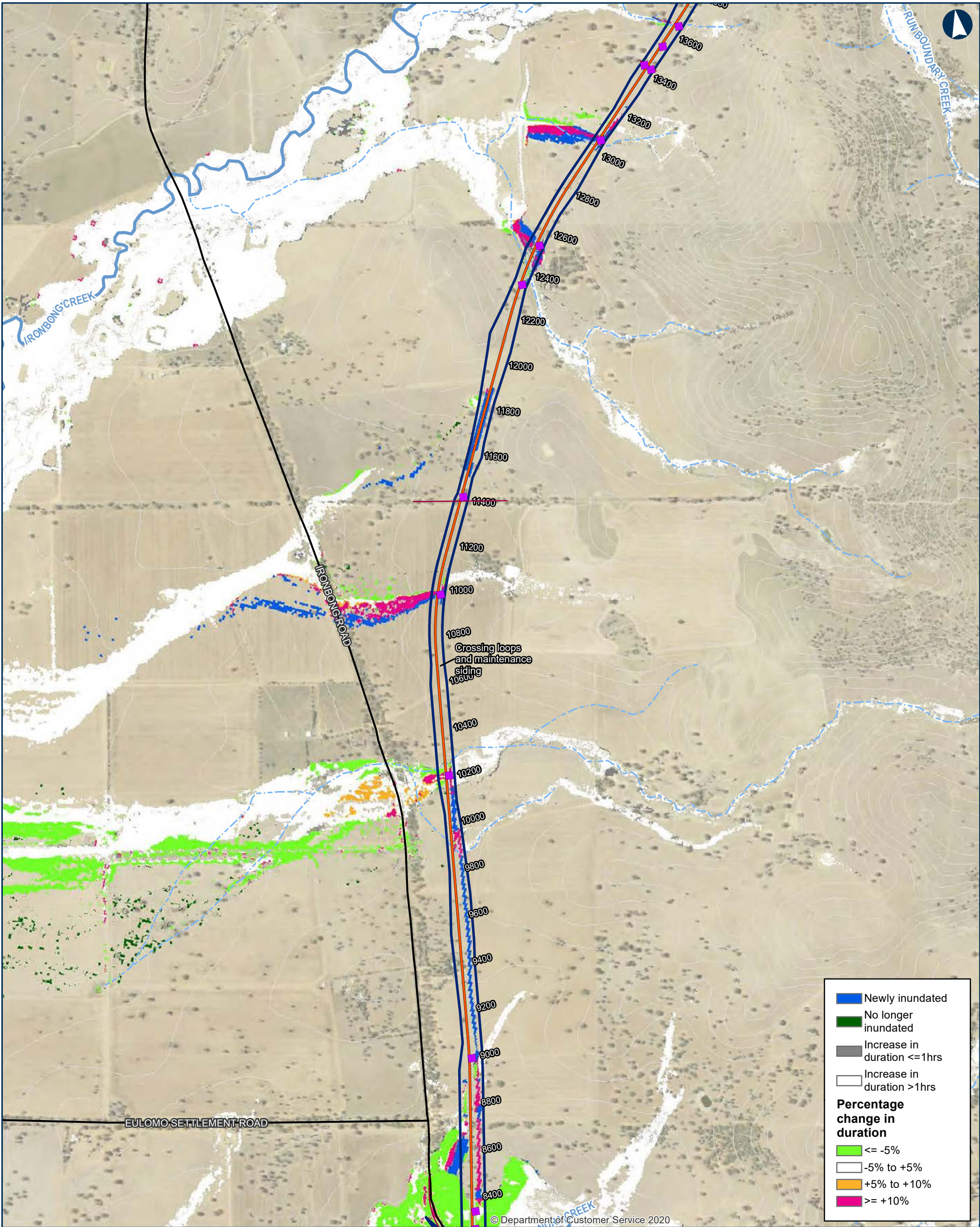
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 3 of 9

0 200 400
Metres

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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

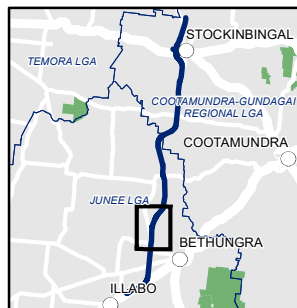
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

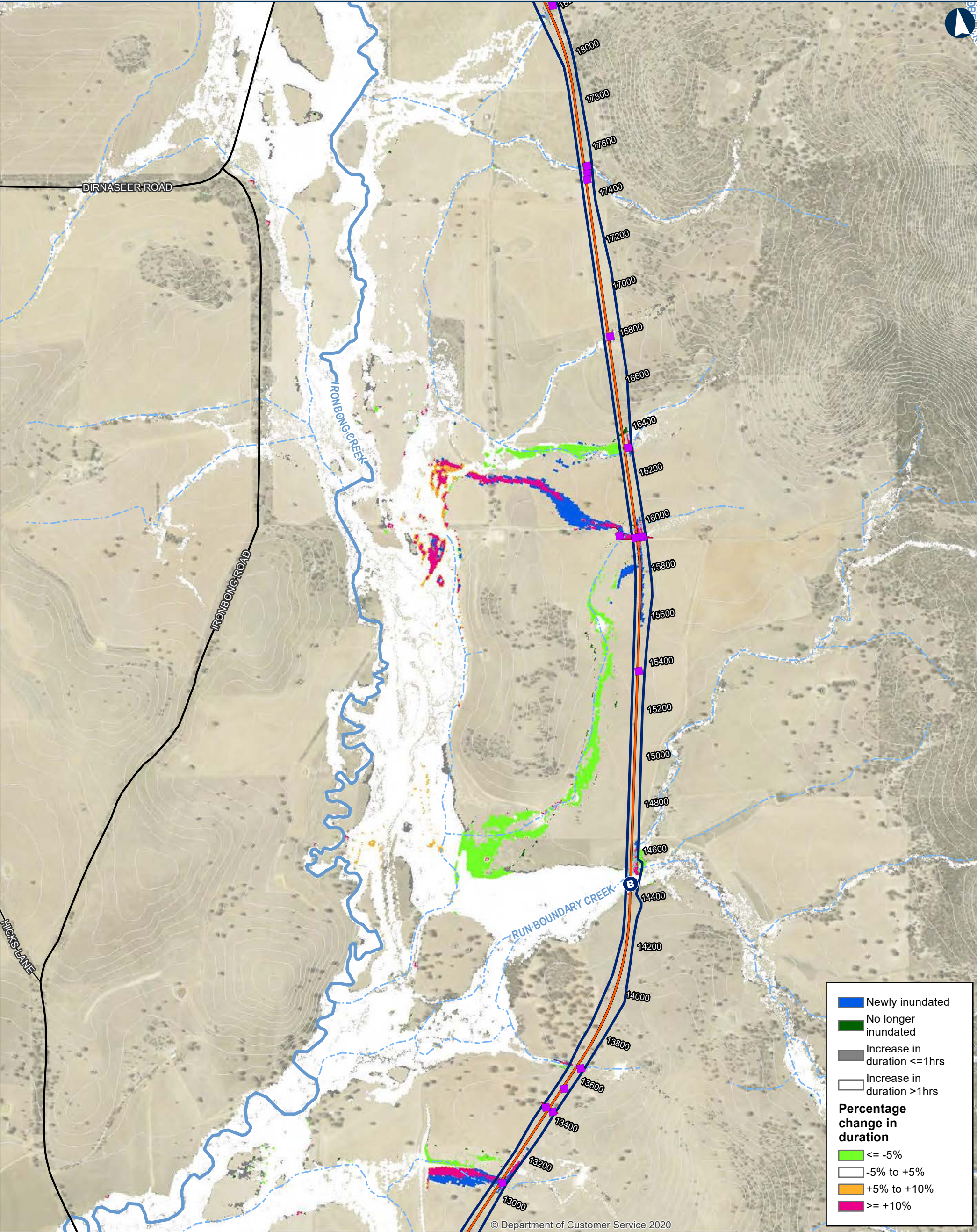
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 4 of 9

0 200 400 Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

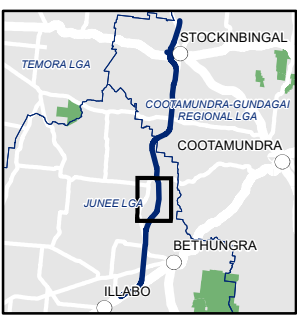
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

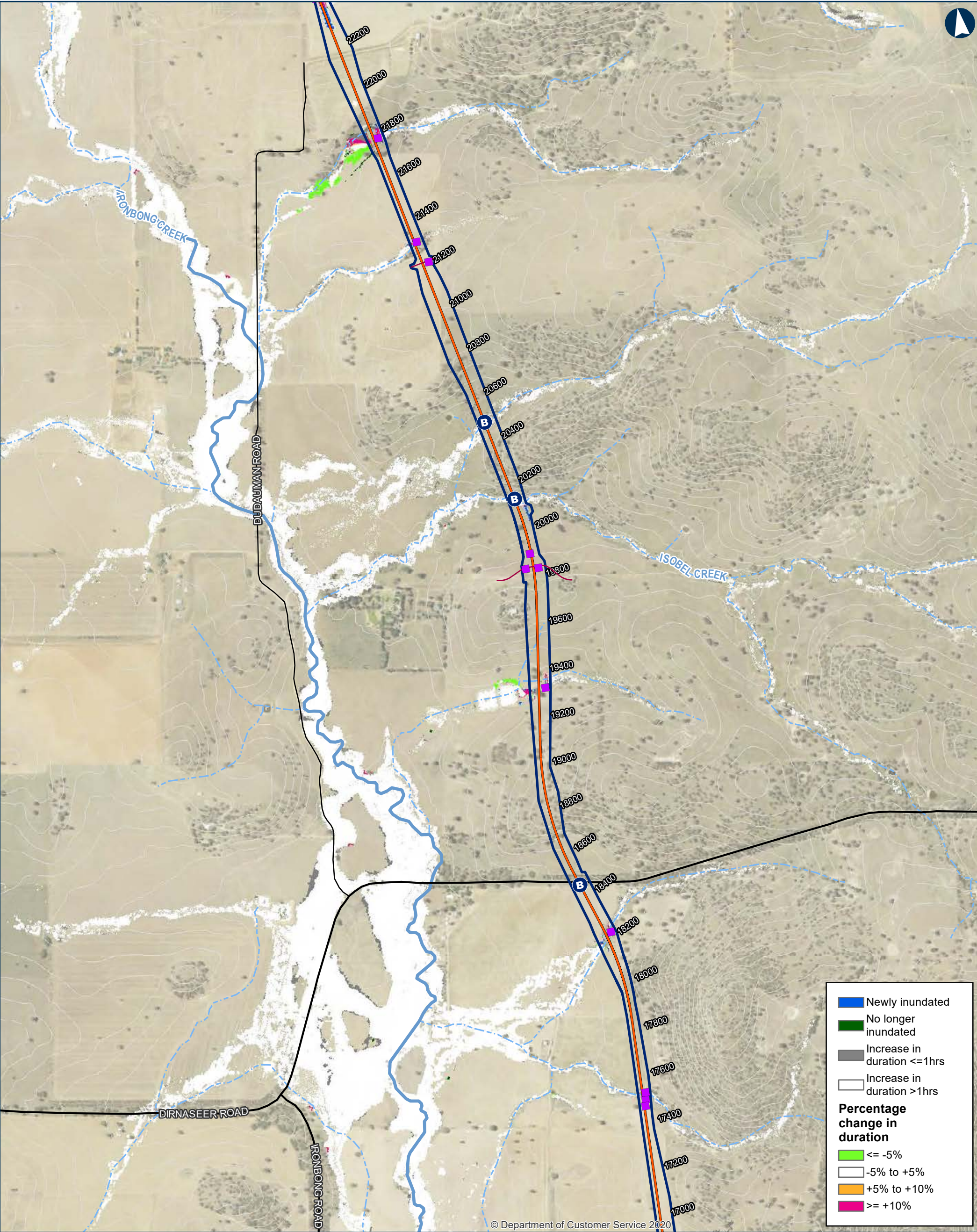
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 5 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

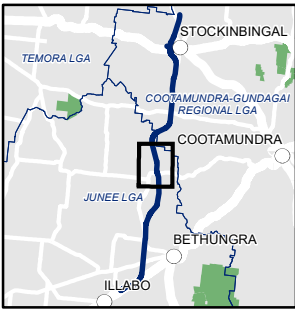
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

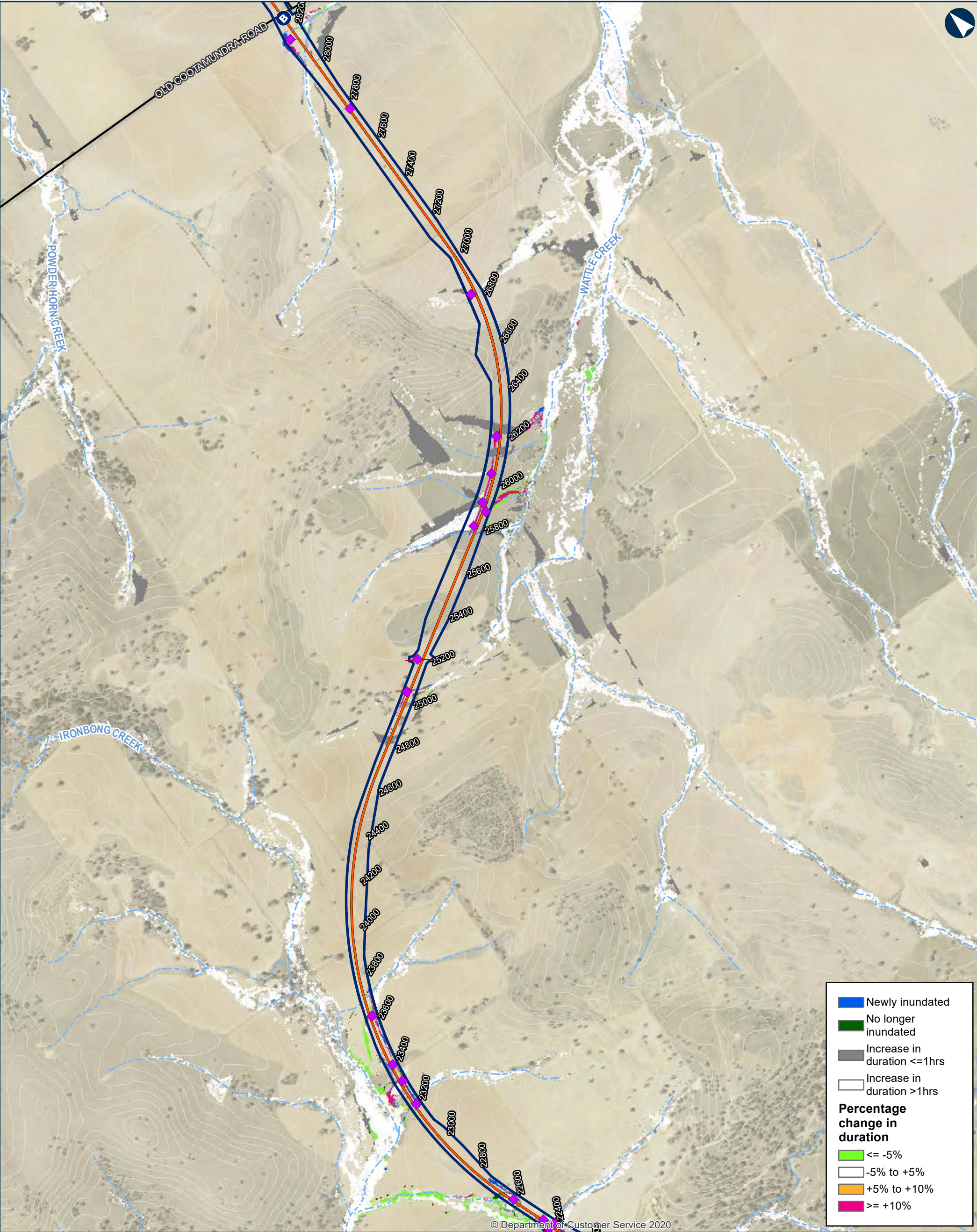
Local road

Sub-arterial road

Arterial road



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



ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

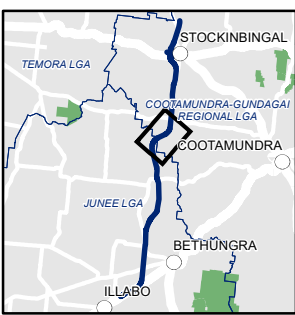
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

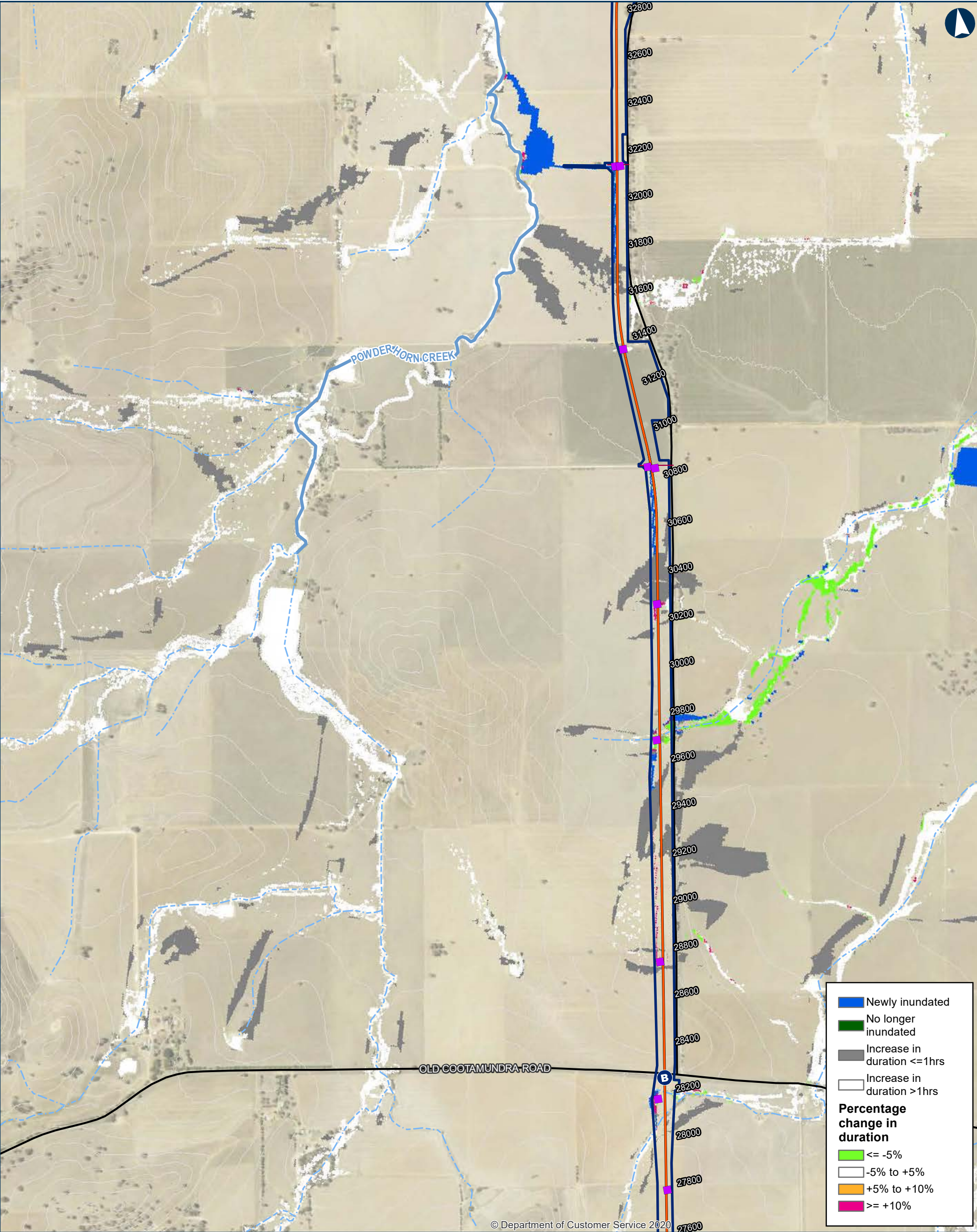
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

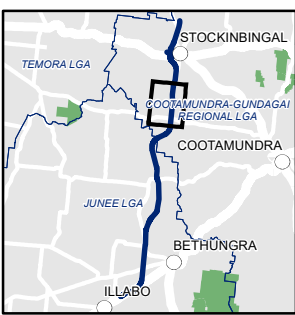
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

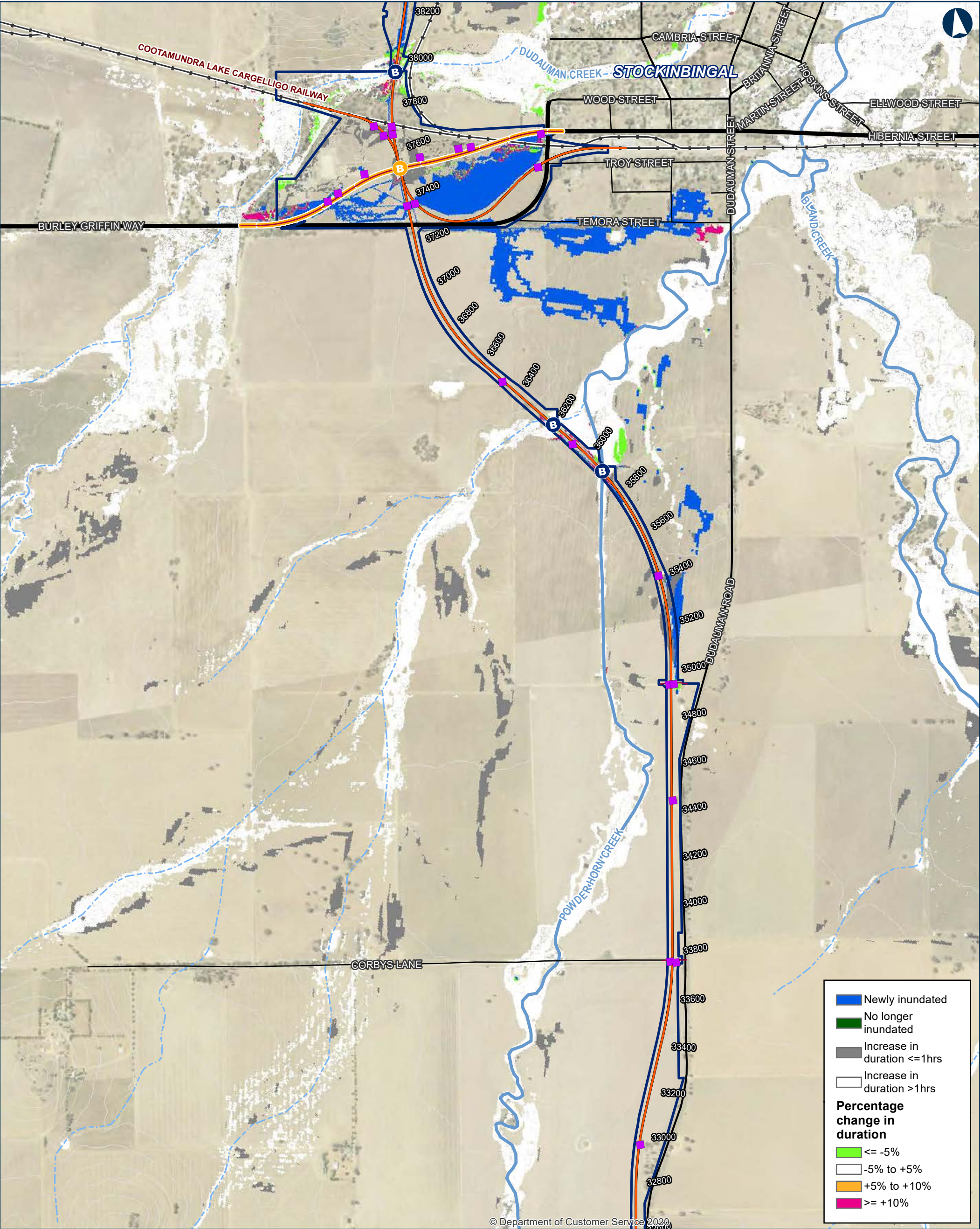
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

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Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

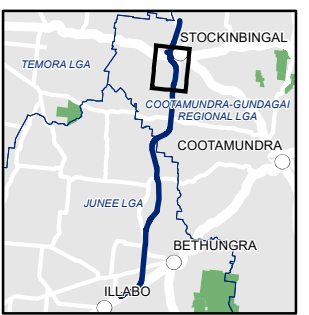
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

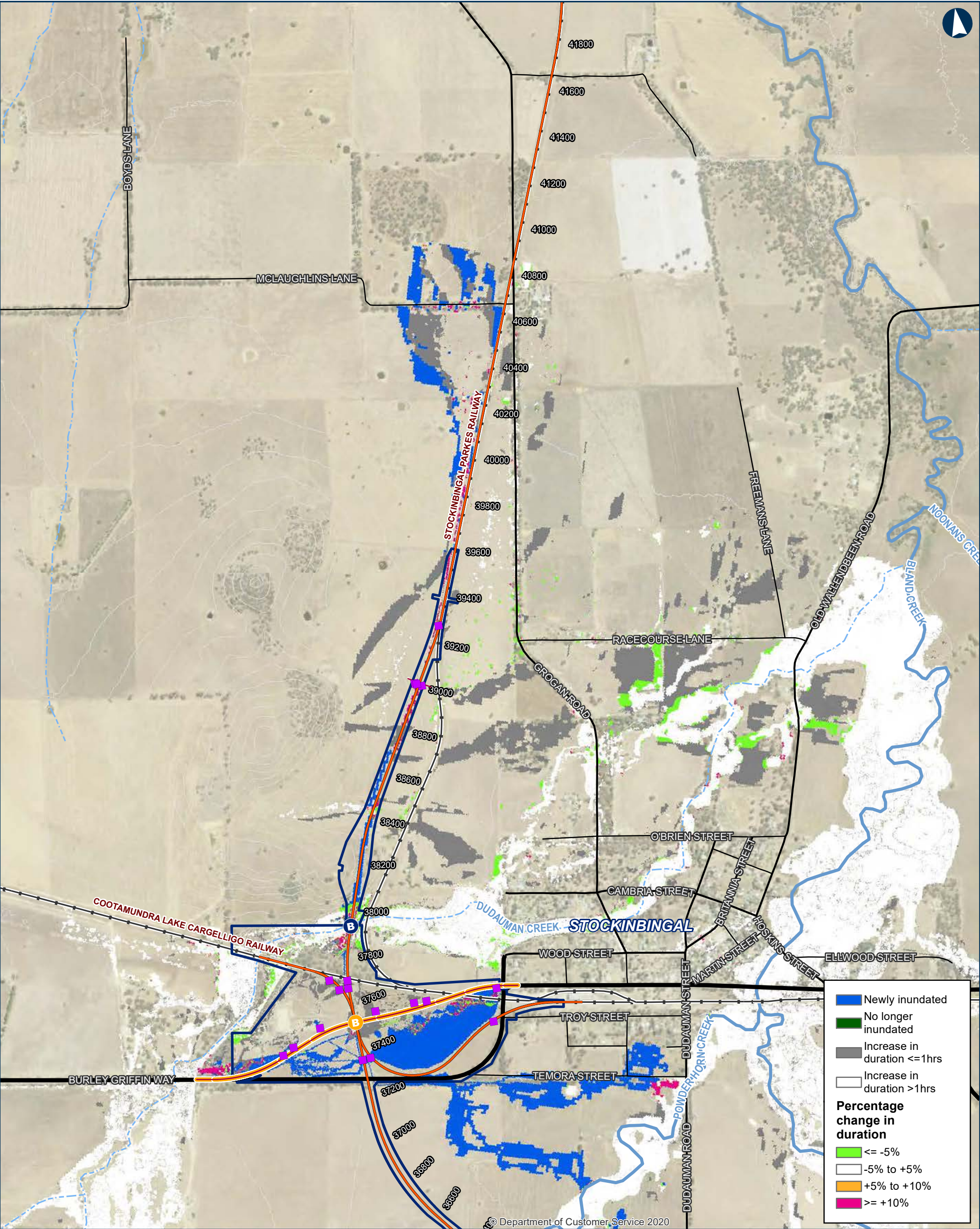
Local road

Sub-arterial road

Arterial road



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



ILLABO TO STOCKINBINGAL 10% AEP Change in Duration

Map 9 of 9

0 200 400
Metres

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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

B

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing rail

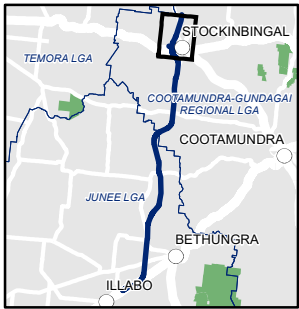
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

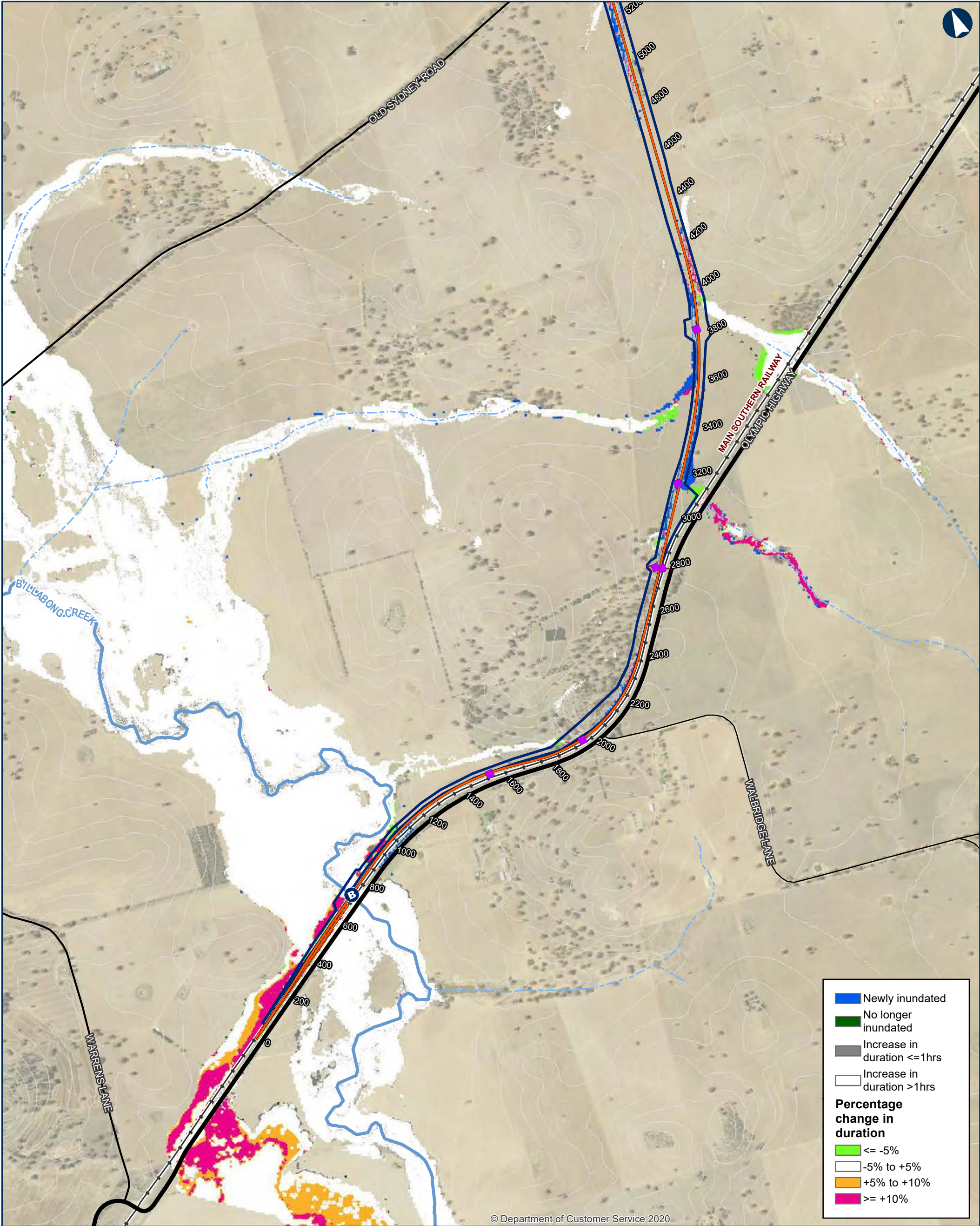
Sub-arterial road

Arterial road

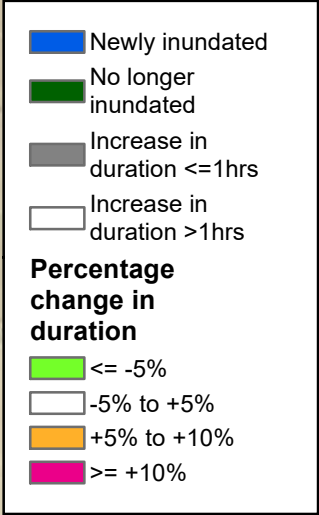


INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 1 of 9

0 200 400 Metres

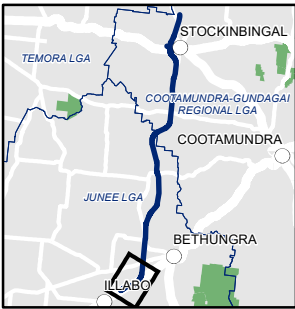
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

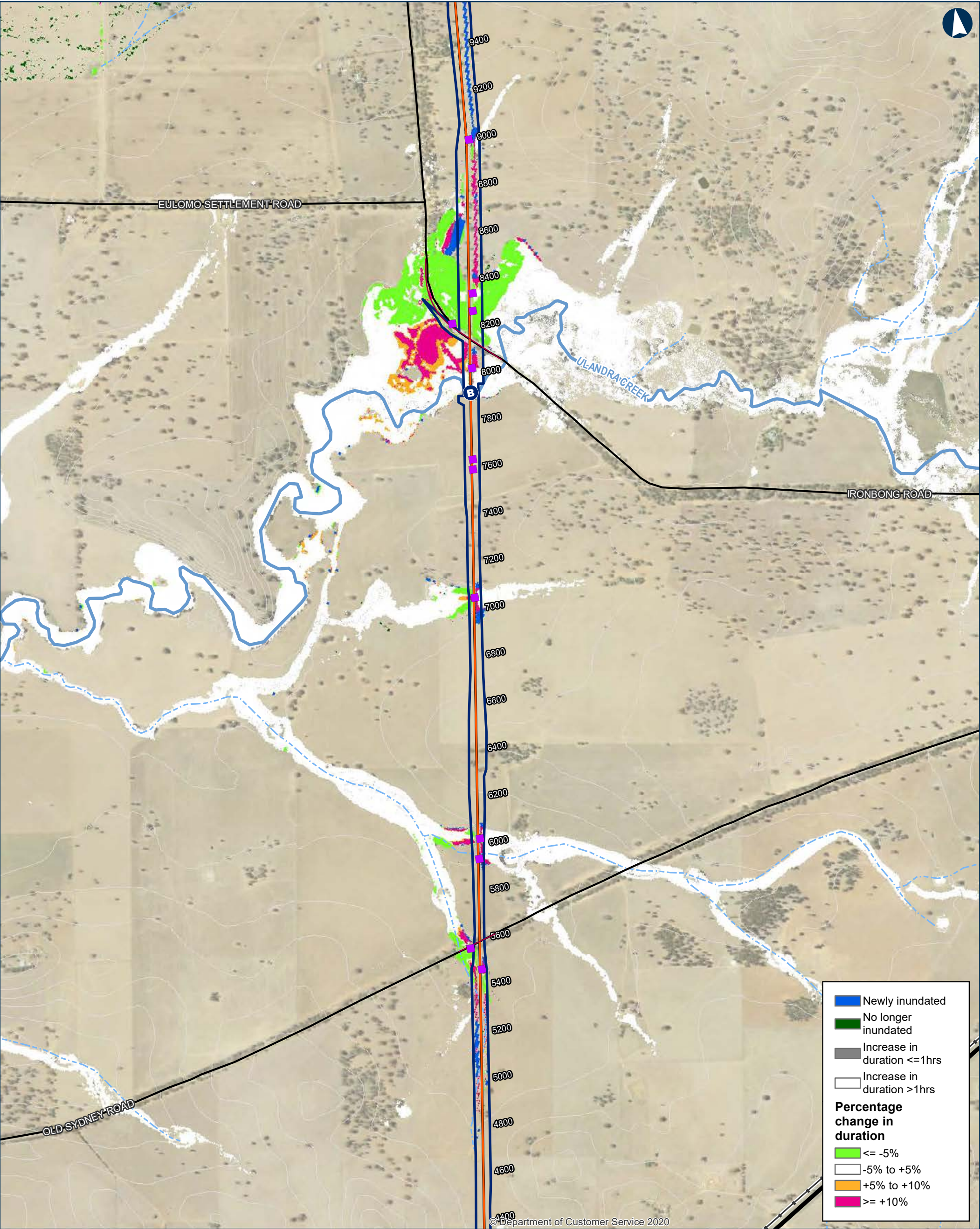
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

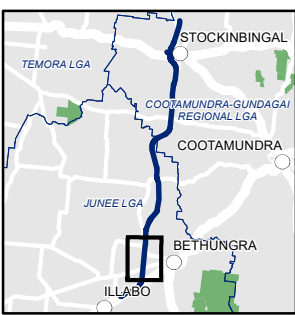
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

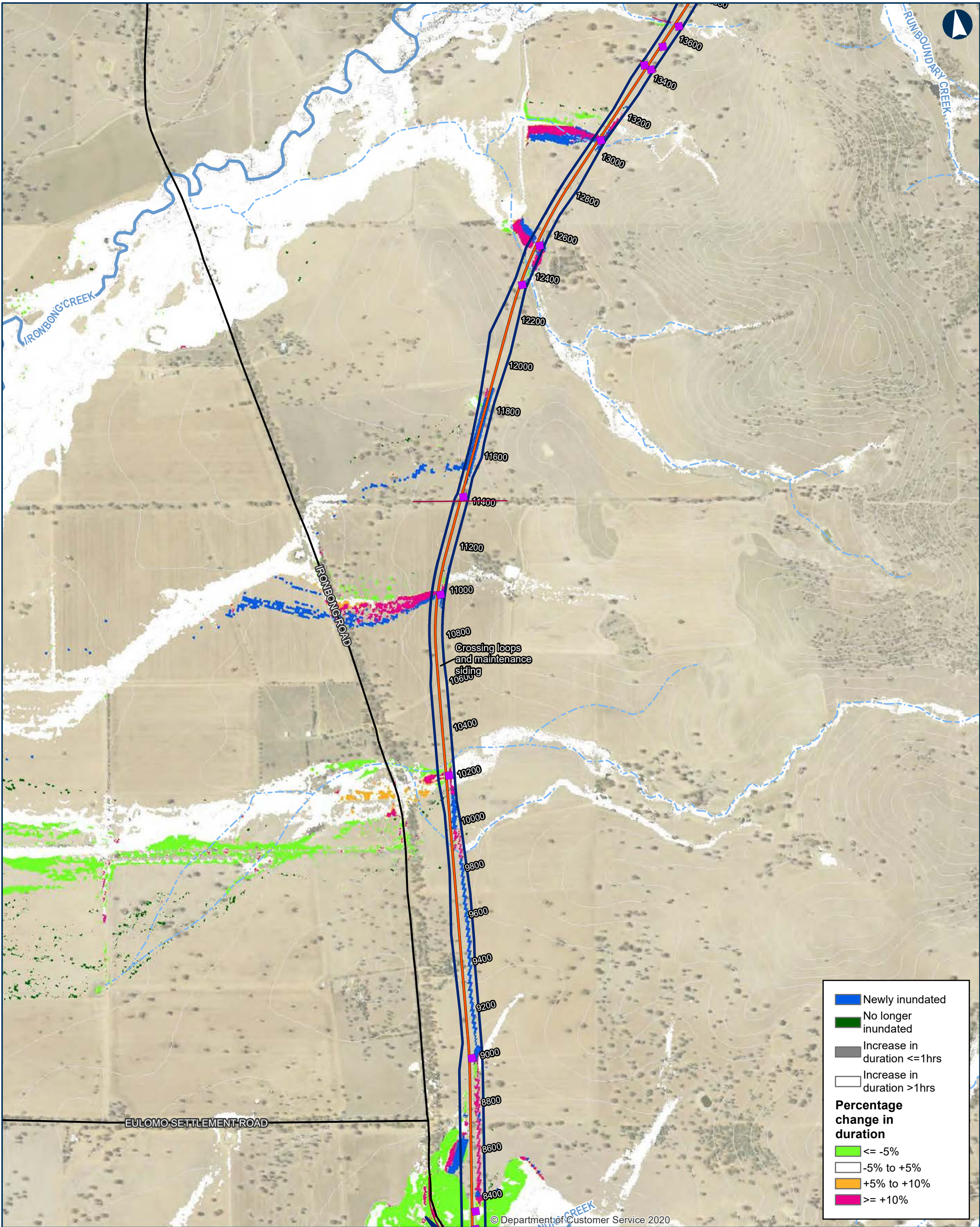
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

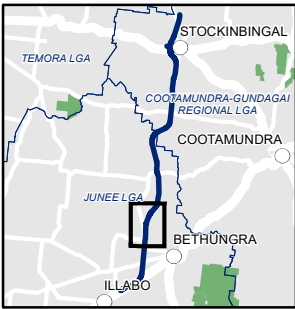
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge

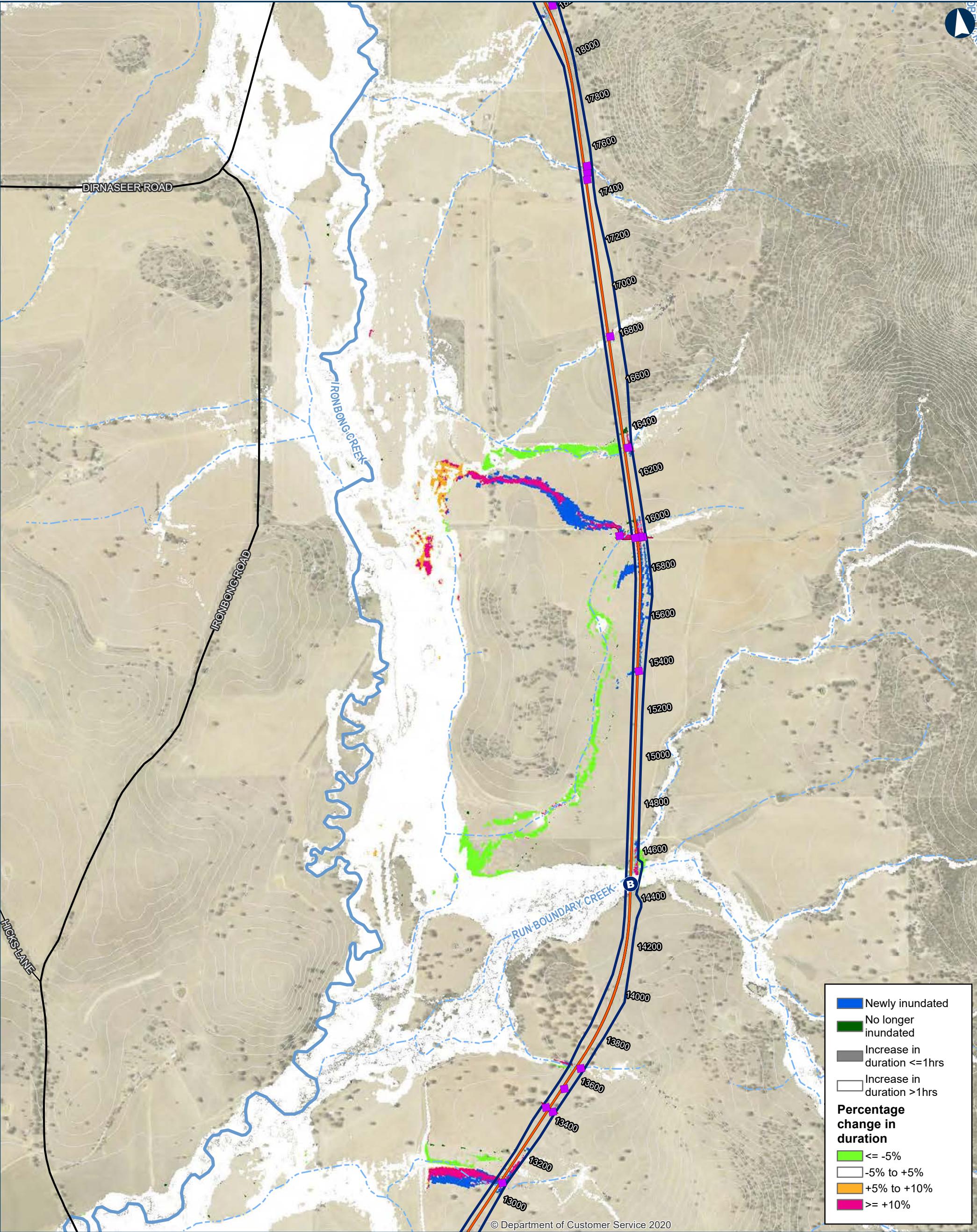
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

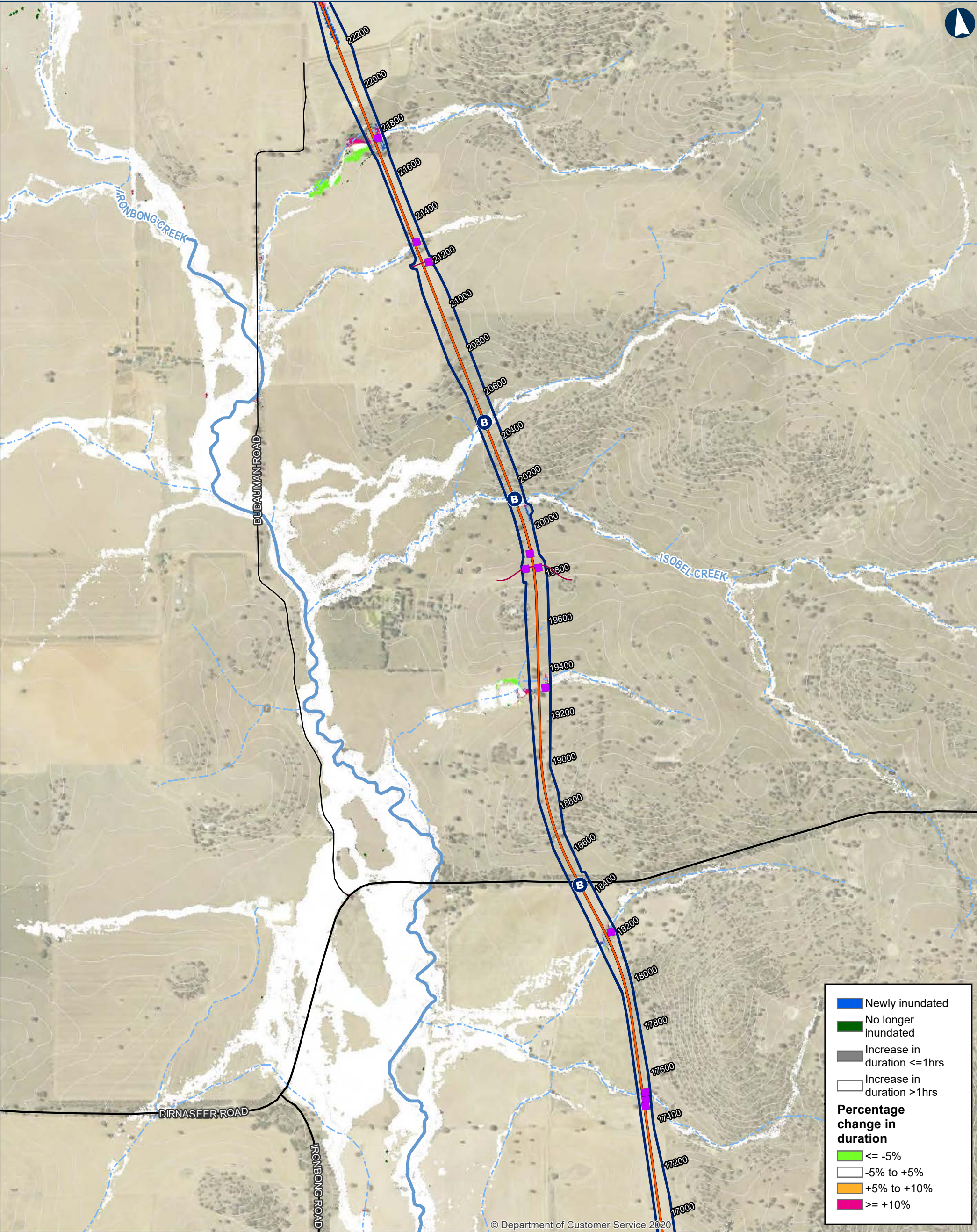
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 5 of 9

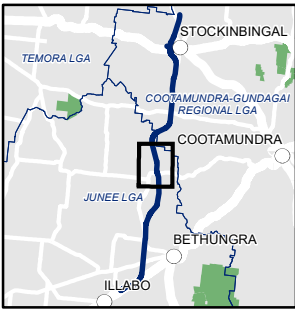
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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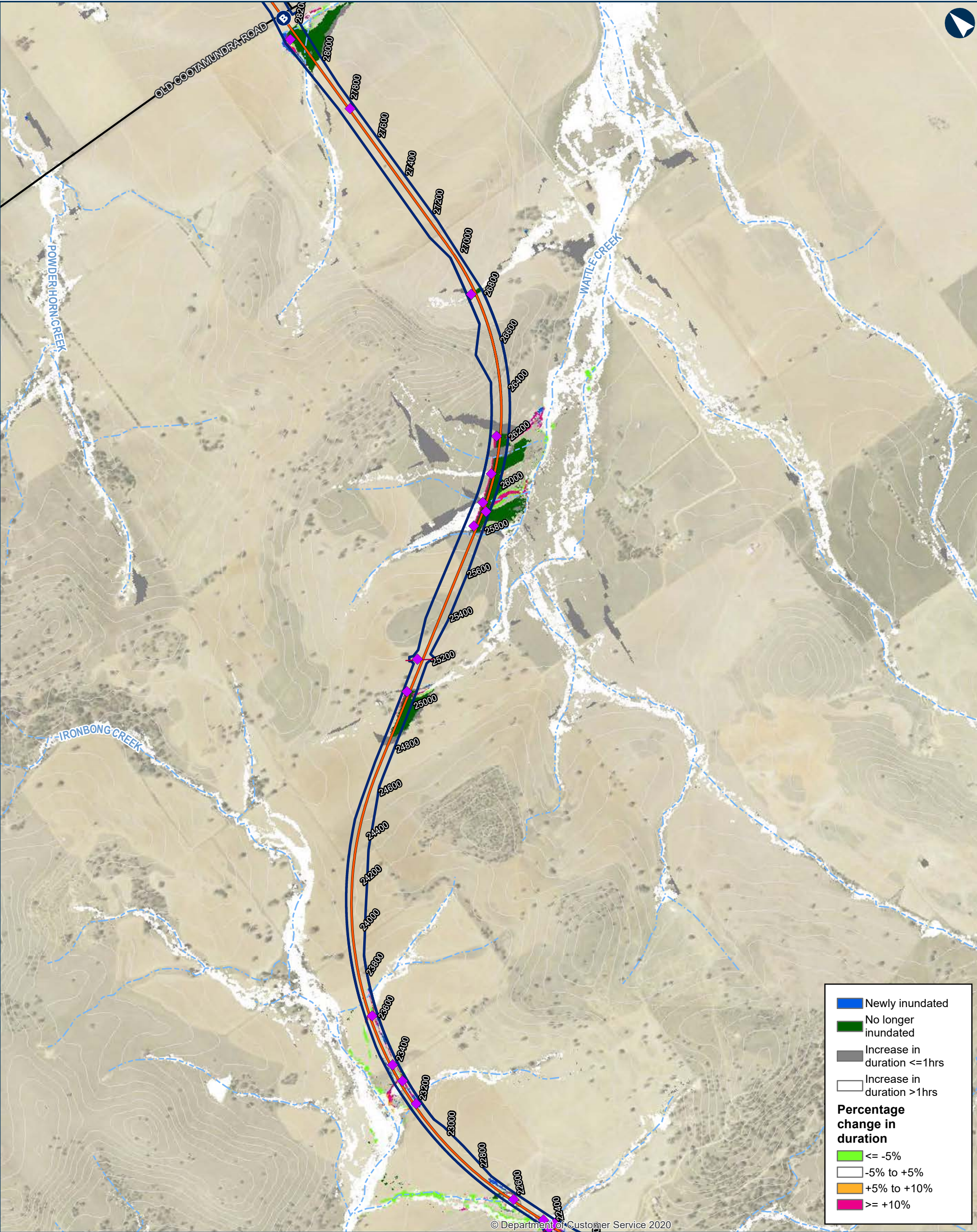
Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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



ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950 Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B Overbridge

B Underbridge

C Culvert

5m Contours

Existing rail

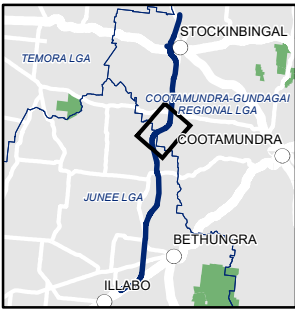
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

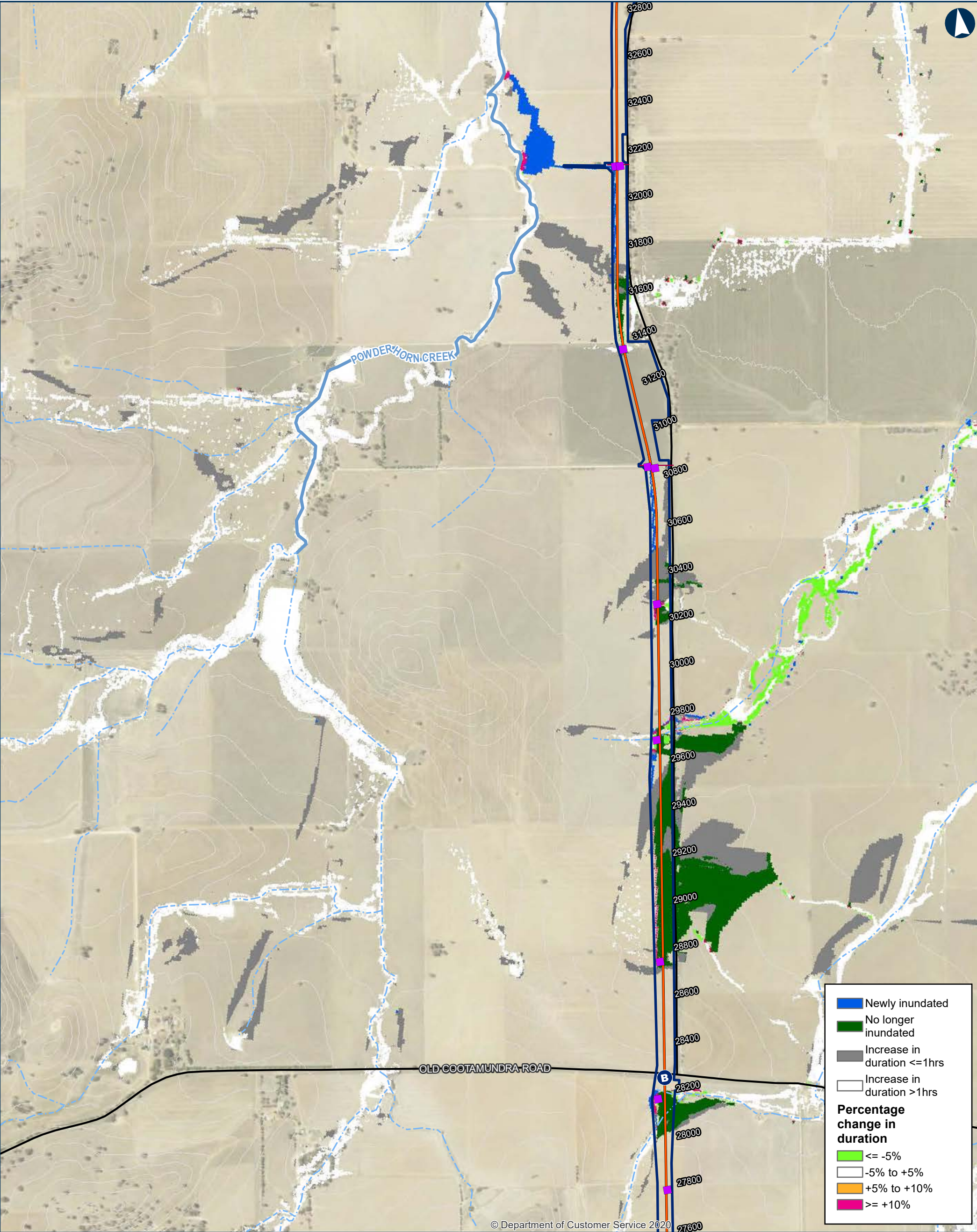
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

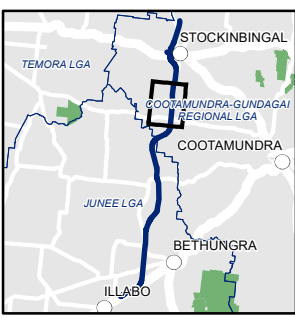
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

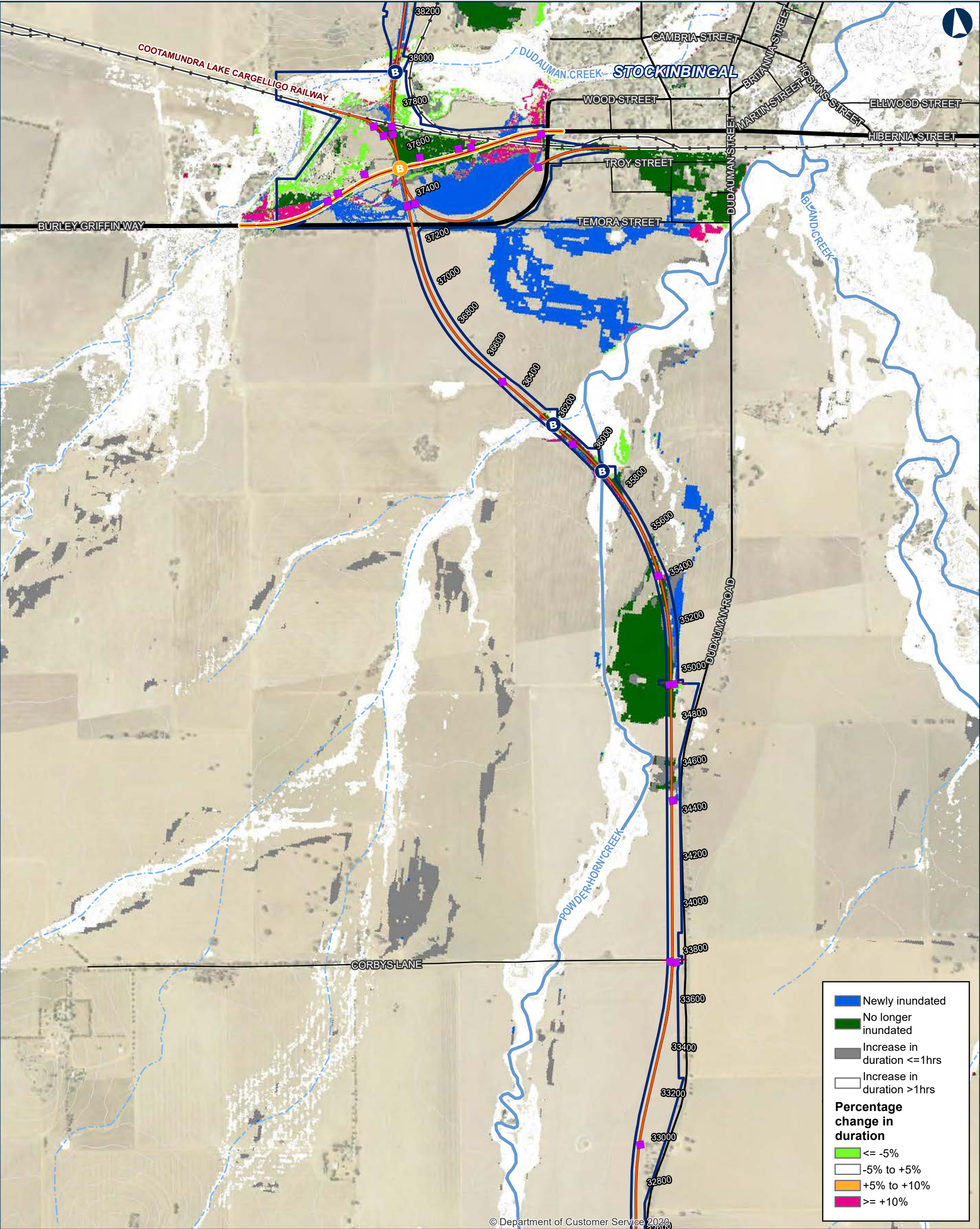
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Change in Duration

Map 8 of 9

0 200 400 Metres

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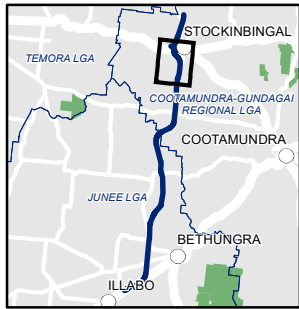
Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade
Burley Griffin Way realignment

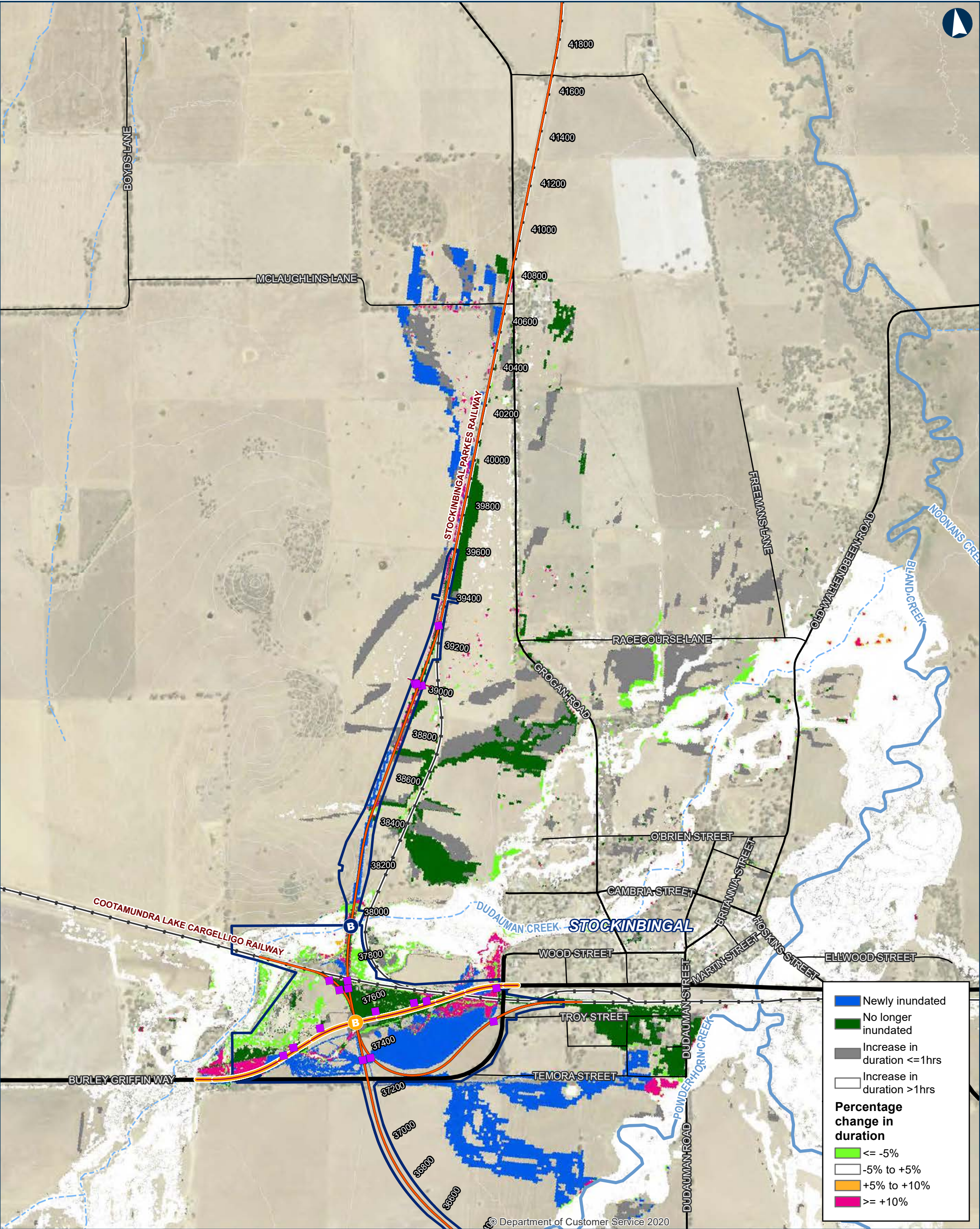
Overbridge
Underbridge
Culvert
5m Contours
Existing rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)

Local road
Sub-arterial road
Arterial road



INLAND RAIL ARTC

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



ILLABO TO STOCKINBINGAL 5% AEP Change in Duration Map 9 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

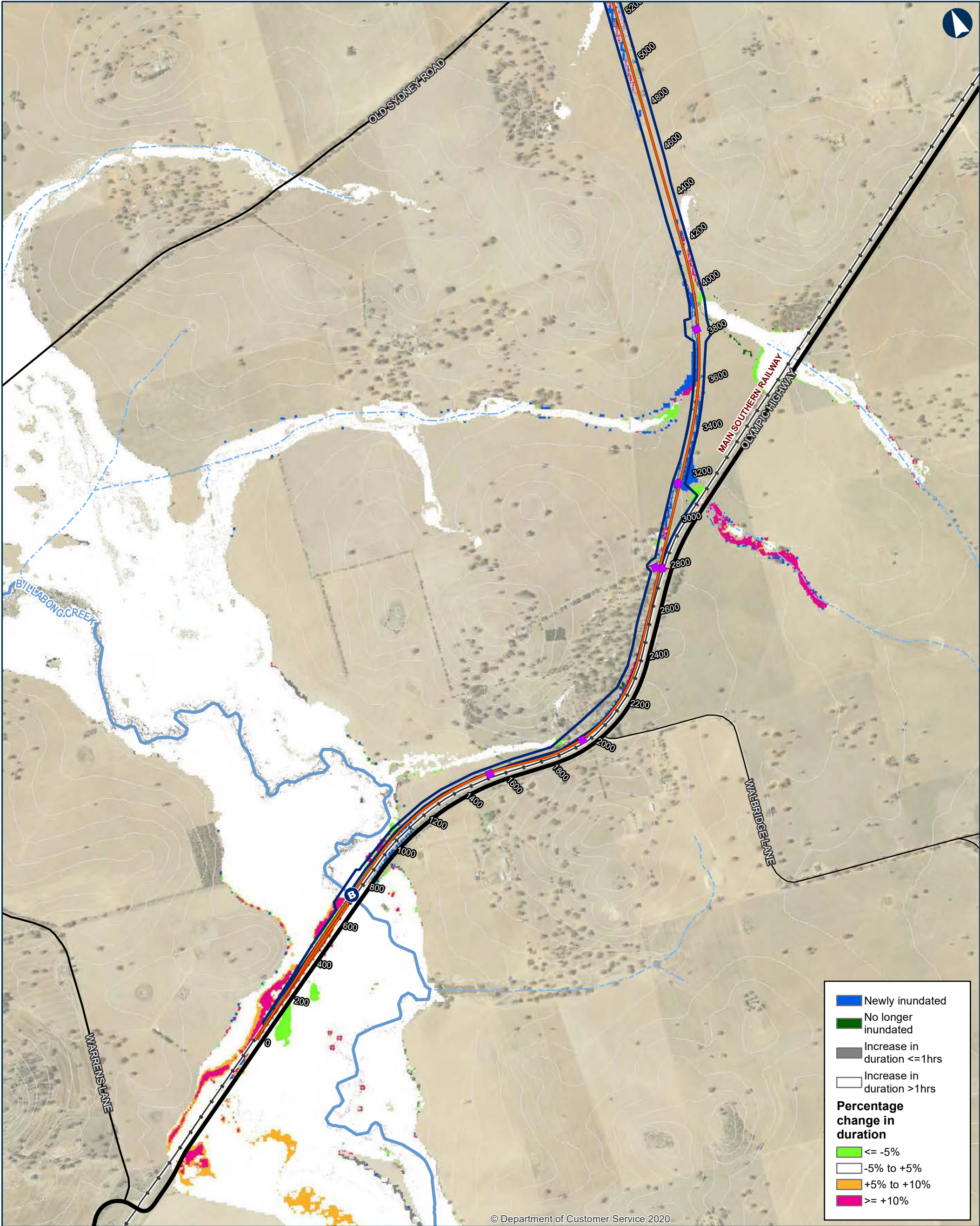
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 1 of 9

0 200 400 Metres

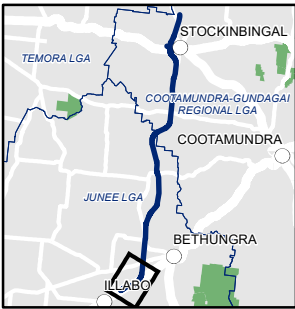
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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary
Chainage (distance in metres from southern limit of the proposal)
40950
New track/track upgrade
Overbridge

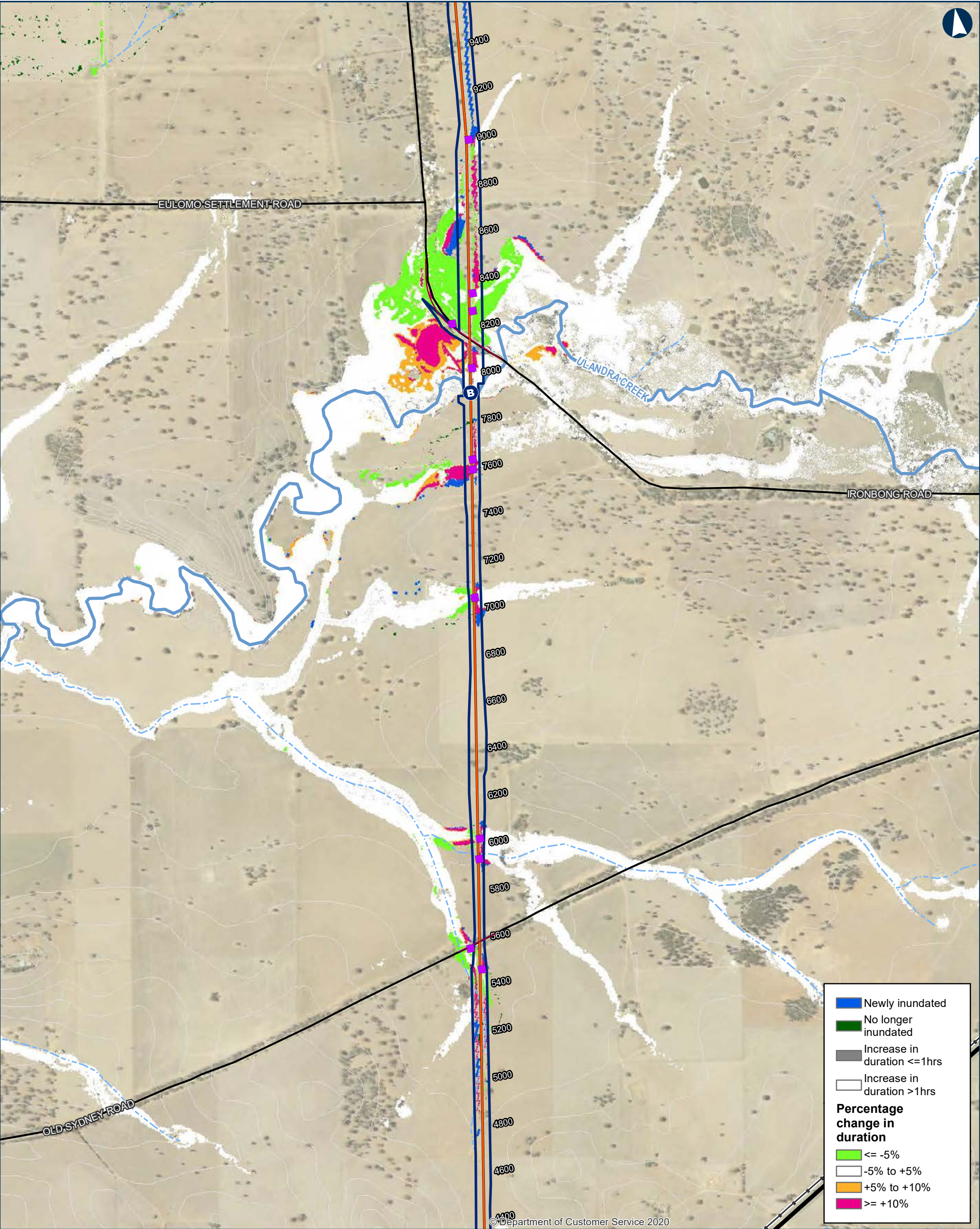
Underbridge
Culvert
5m Contours
Existing rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)
Local road

Sub-arterial road
Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 2 of 9

0 200 400 Metres

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Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

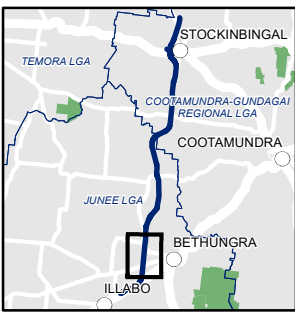
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

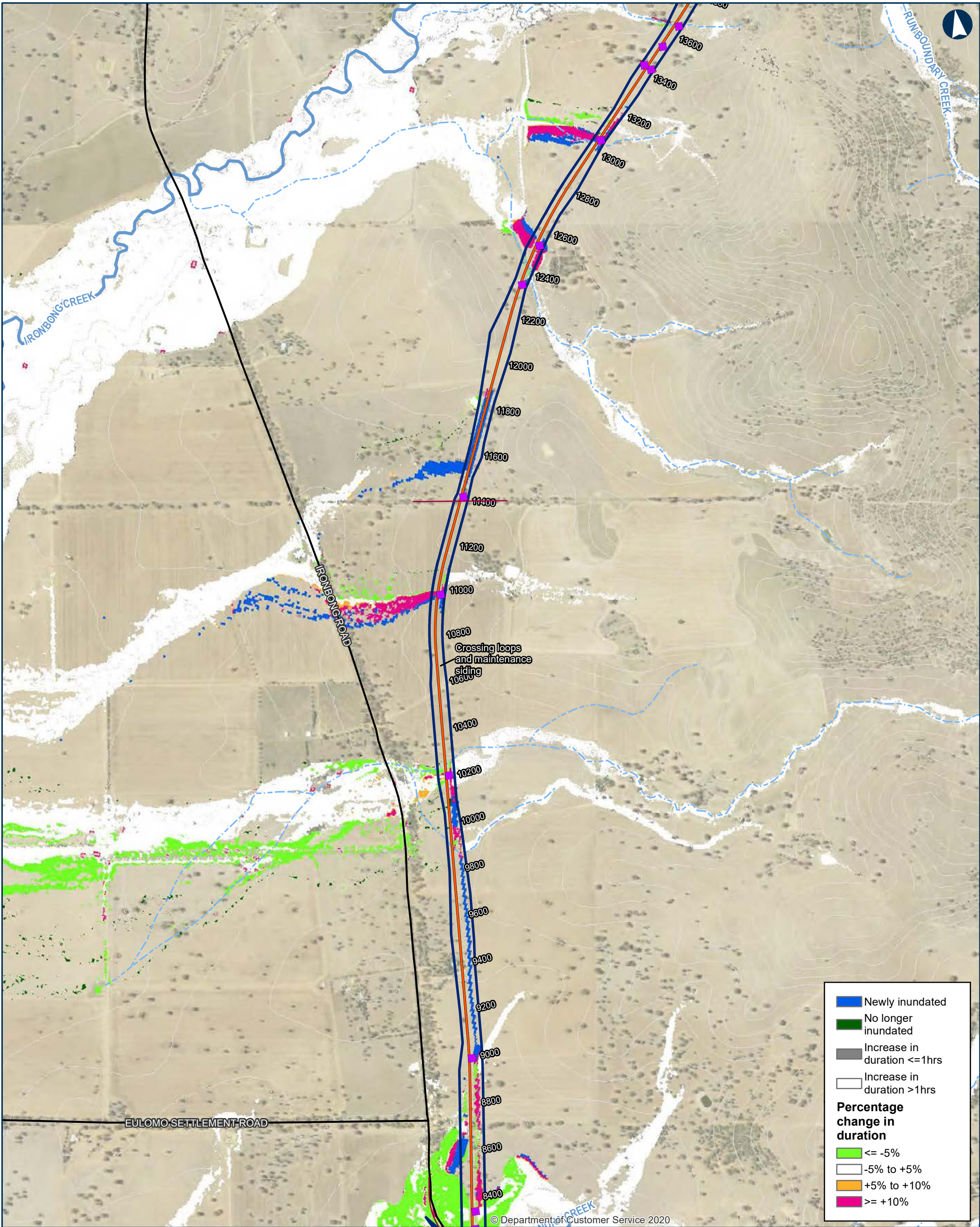
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 3 of 9

0 200 400 Metres

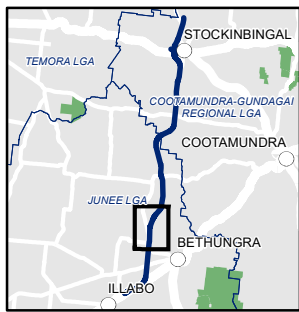
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Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge

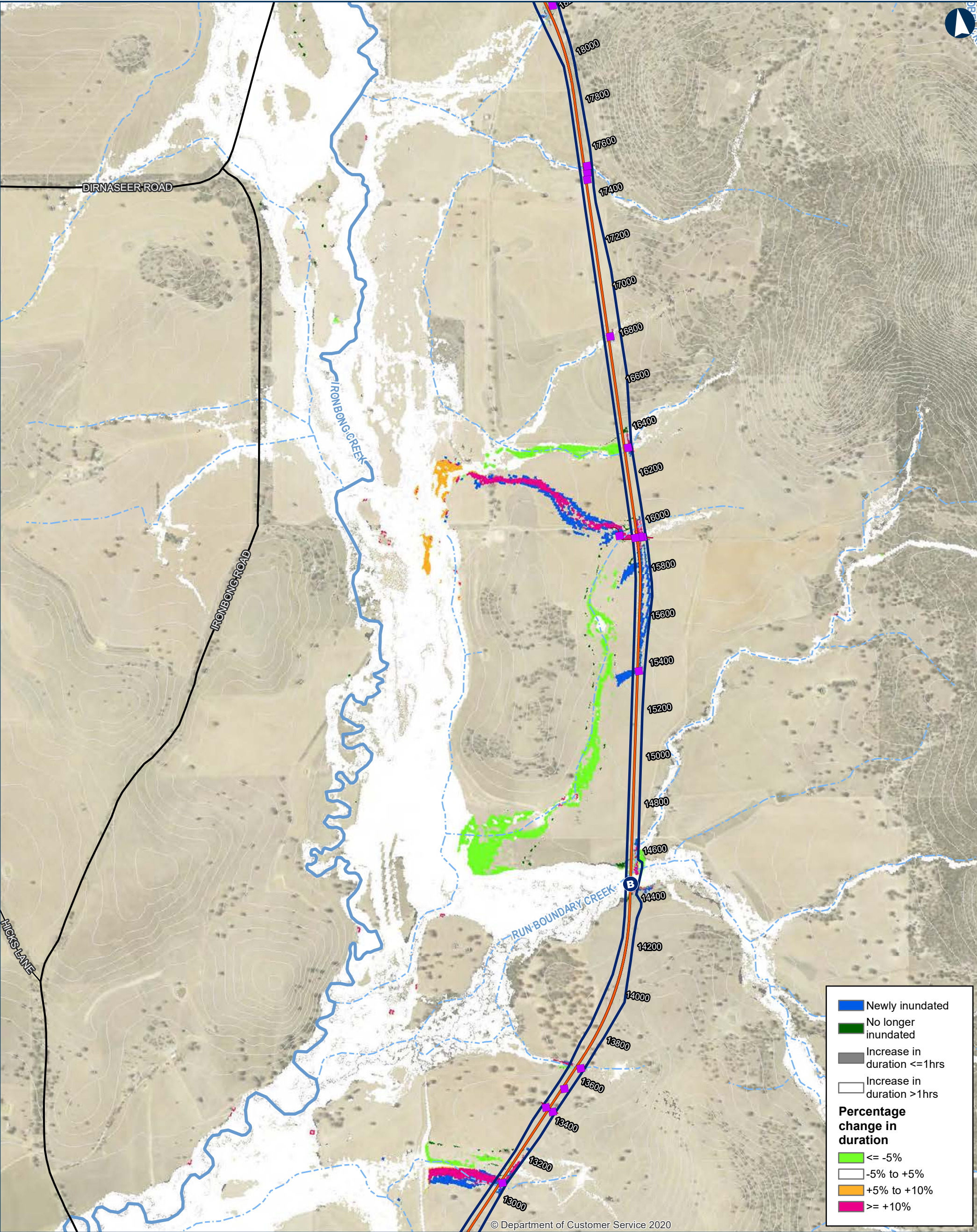
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

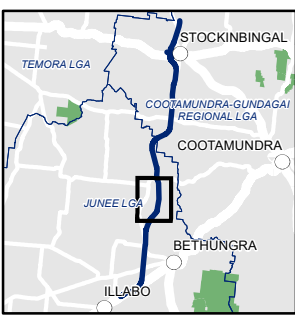
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

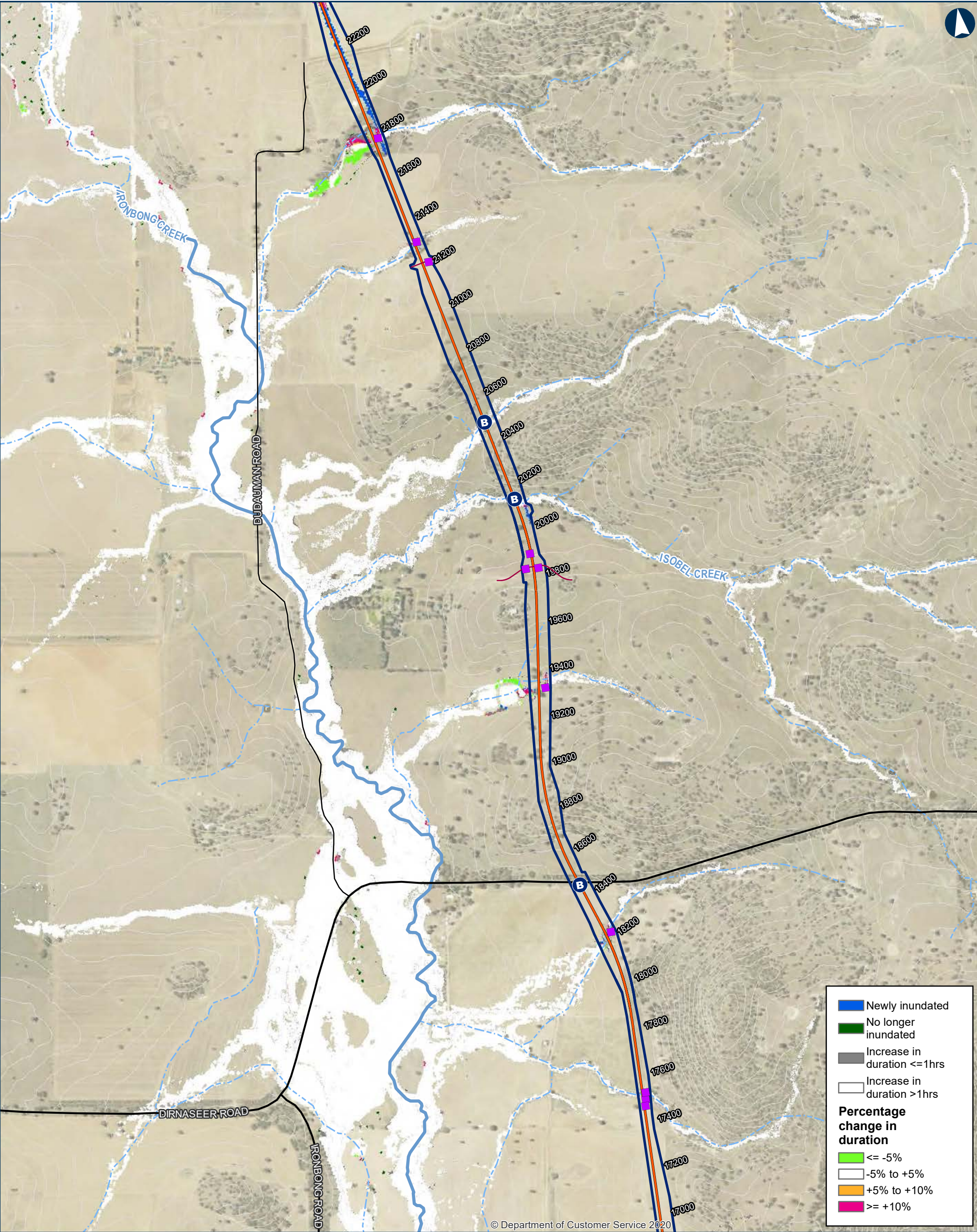
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 5 of 9

0 200 400 Metres

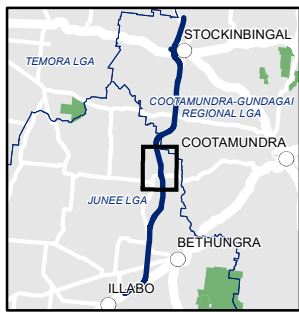
Coordinate System: GDA 1994 MGA Zone 55
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Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary
Chainage (distance in metres from southern limit of the proposal)
40950
New track/track upgrade
Overbridge

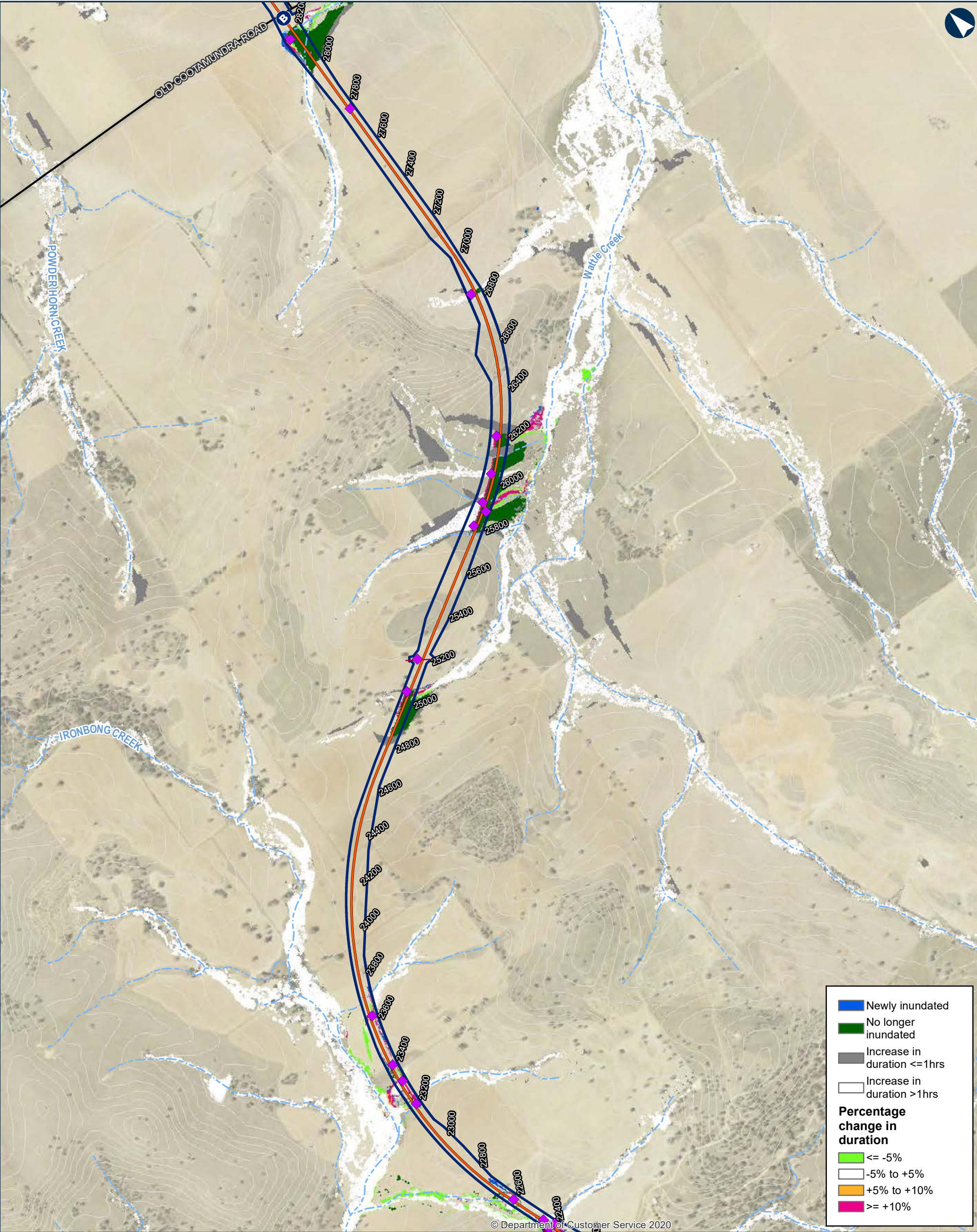
Underbridge
Culvert
5m Contours
Existing rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)
Local road

Sub-arterial road
Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

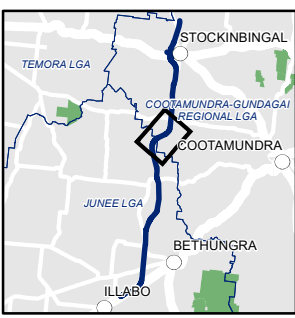
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

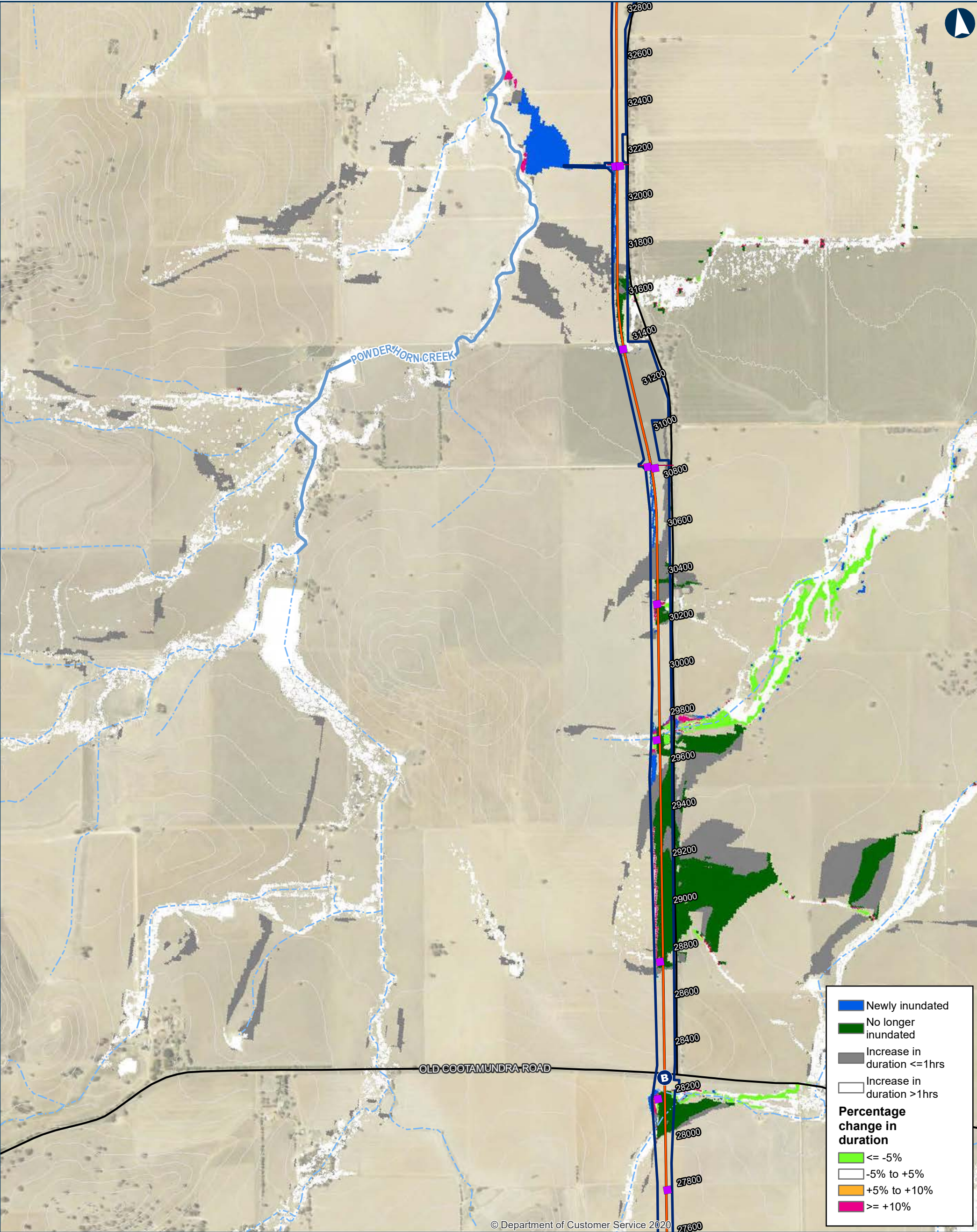
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

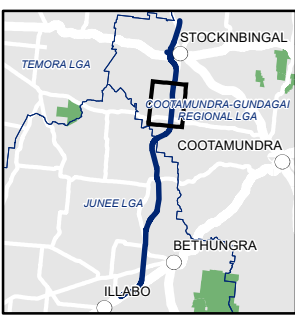
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

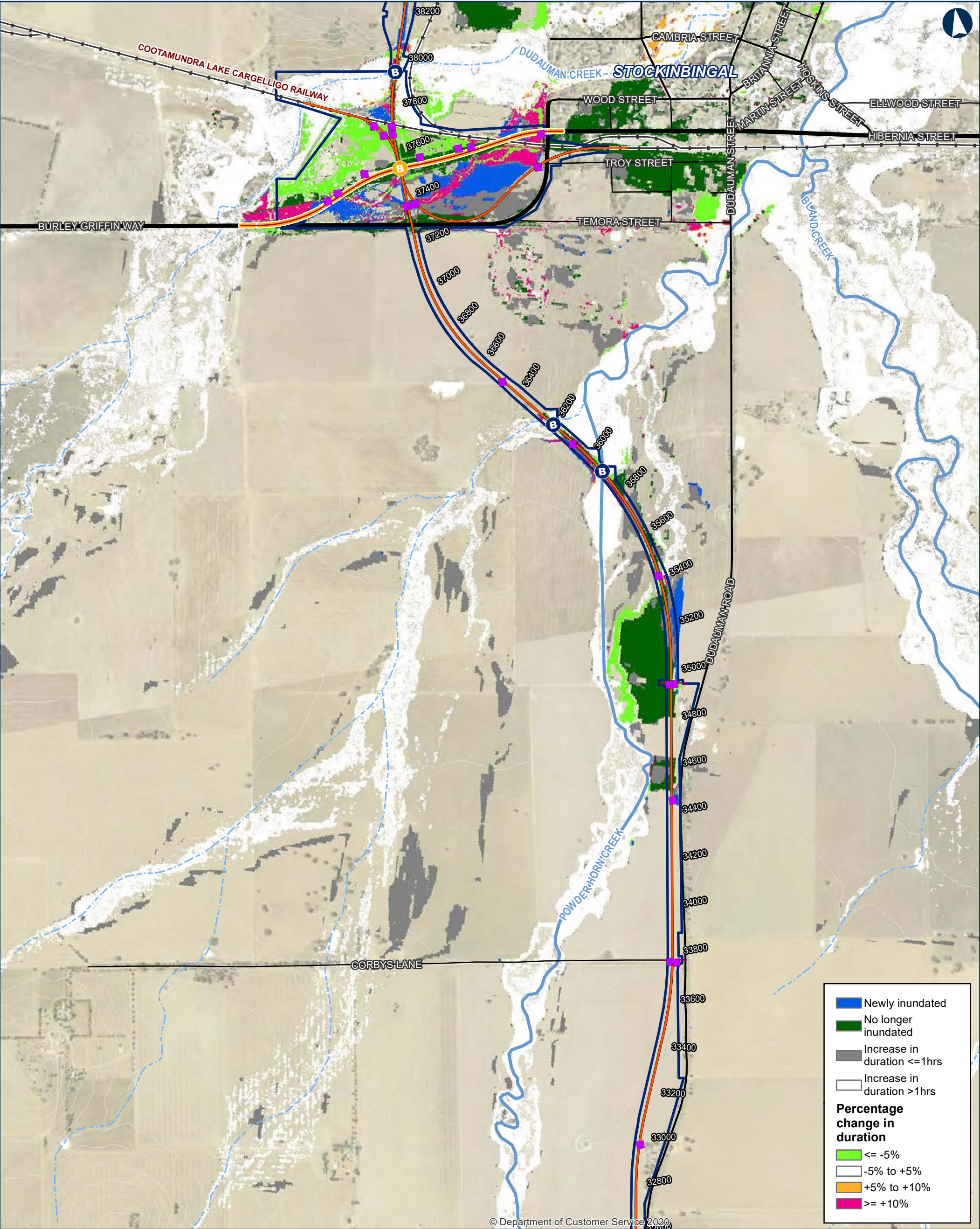
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

Map 8 of 9

0 200 400
Metres

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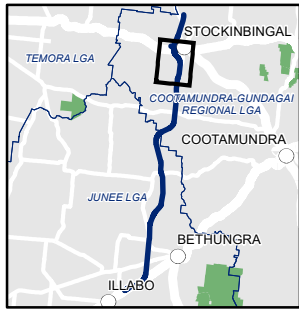
Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade
Burley Griffin Way realignment

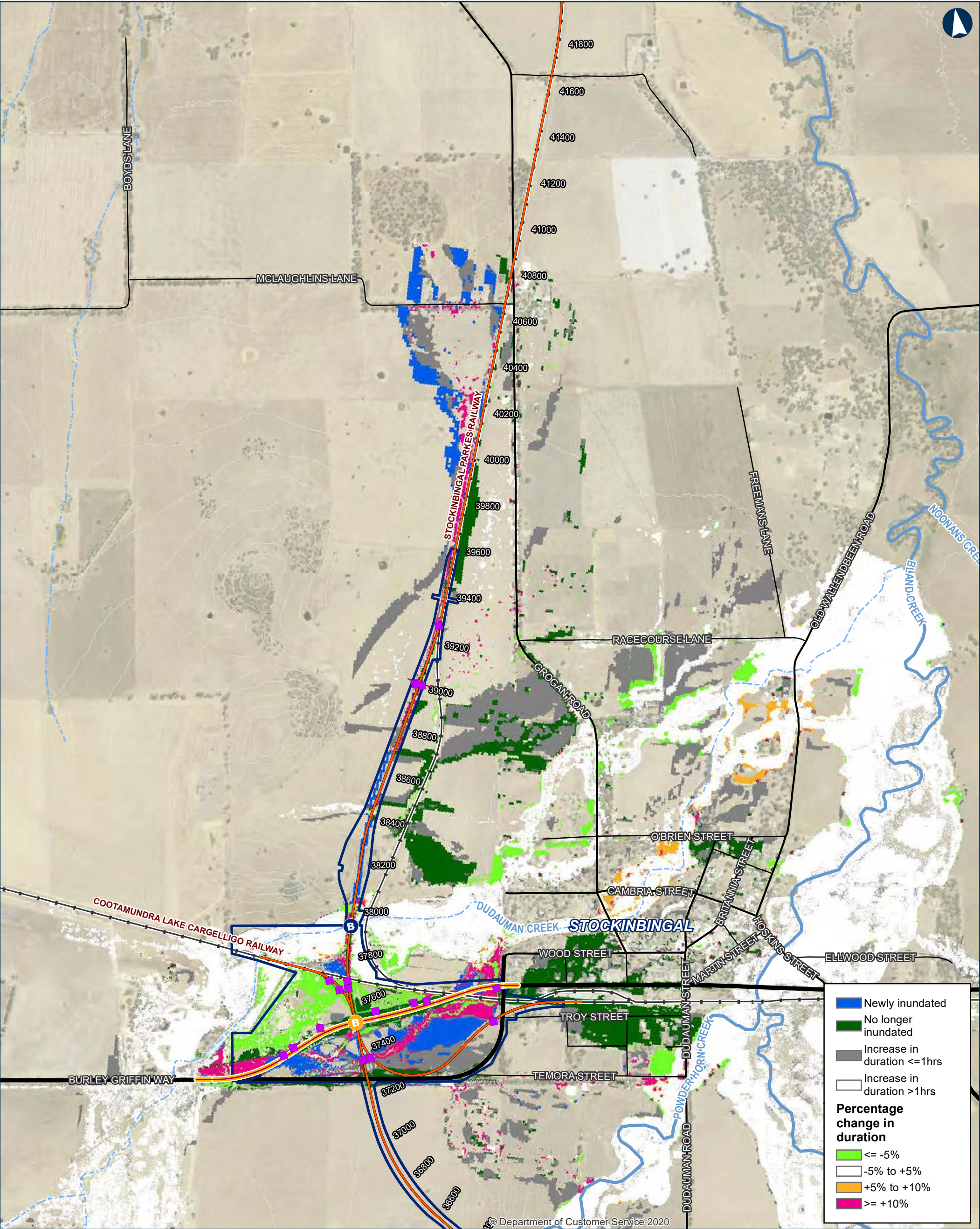
Overbridge
Underbridge
Culvert
5m Contours
Existing rail
Minor watercourse (Strahler SO 1-3)
Major watercourse (Strahler SO 4-6)

Local road
Sub-arterial road
Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Change in Duration

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

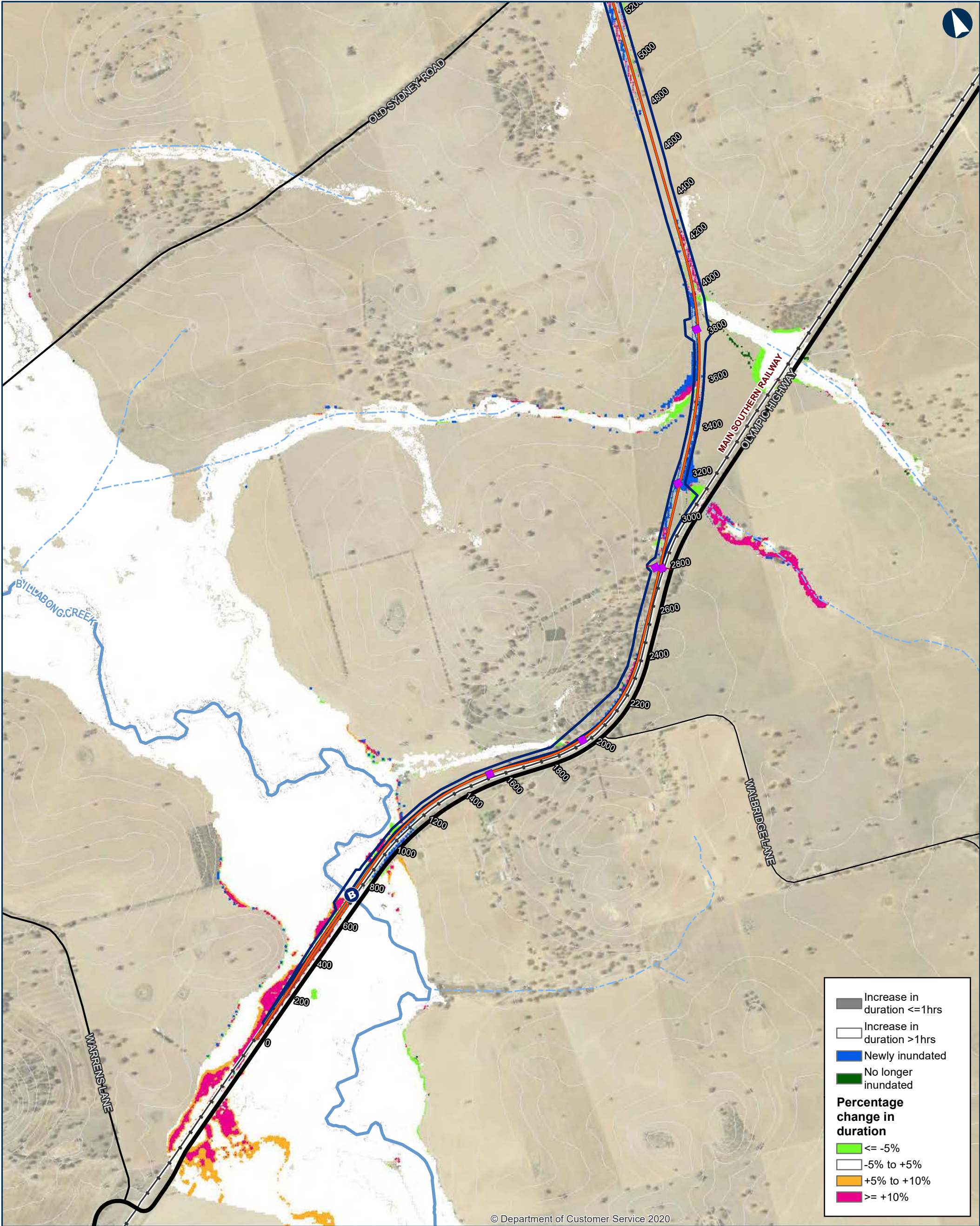
Local road

Sub-arterial road

Arterial road



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Increase in duration <=1hrs

Increase in duration >1hrs

Newly inundated

No longer inundated

Percentage change in duration

<= -5%

-5% to +5%

+5% to +10%

>= +10%

0200400Metres

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Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 1 of 9

ILLABO

STOCKINBINGAL

TEMORA LGA

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

JUNEE LGA

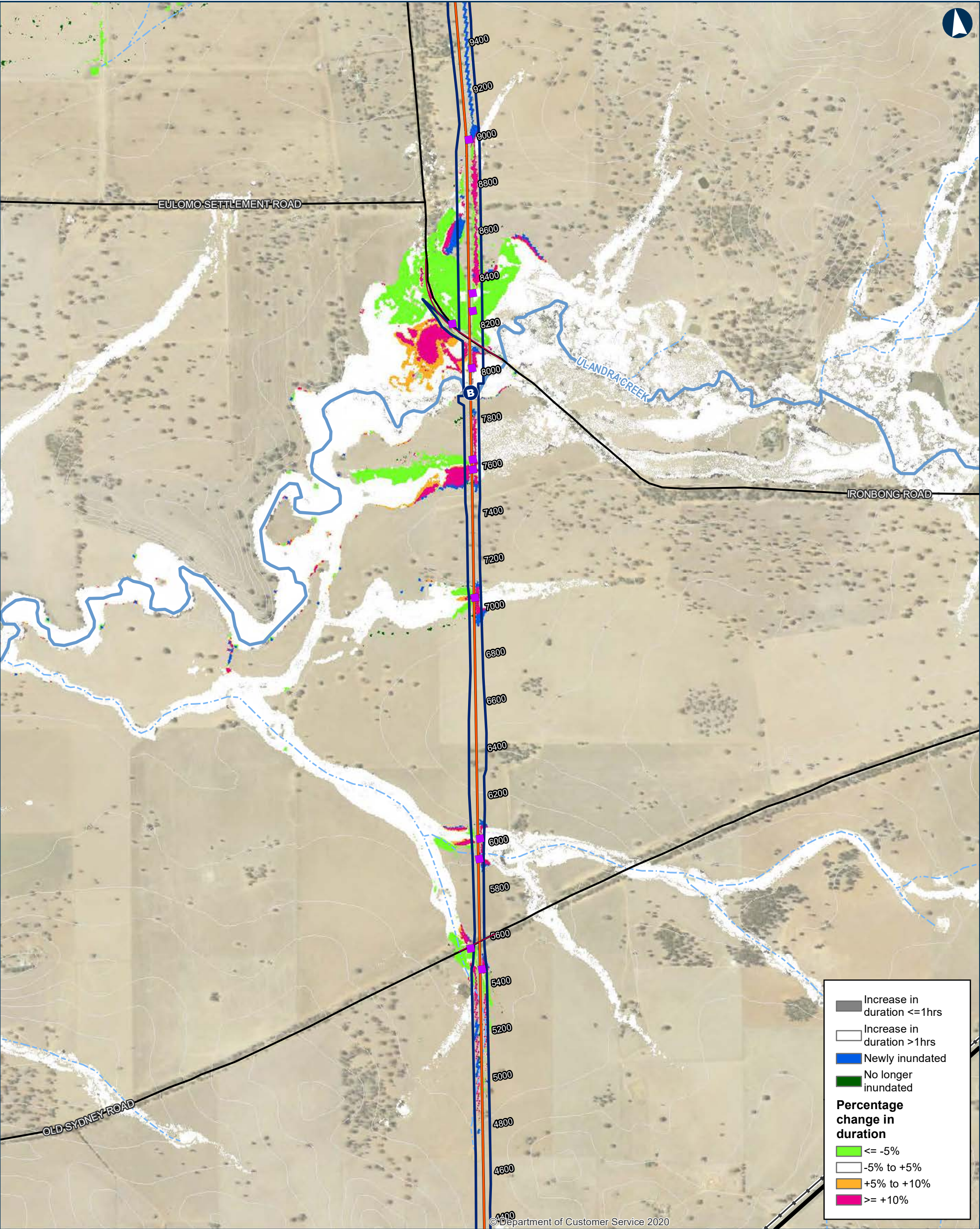
BETHUNGRA

INLAND RAIL

ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\1AEP\220_0122_HYD_1AEPDuration_v5.mxd



ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 2 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

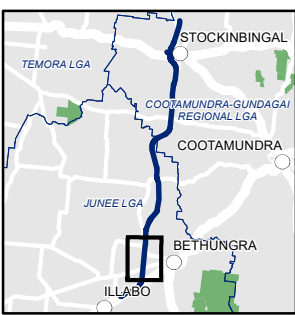
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

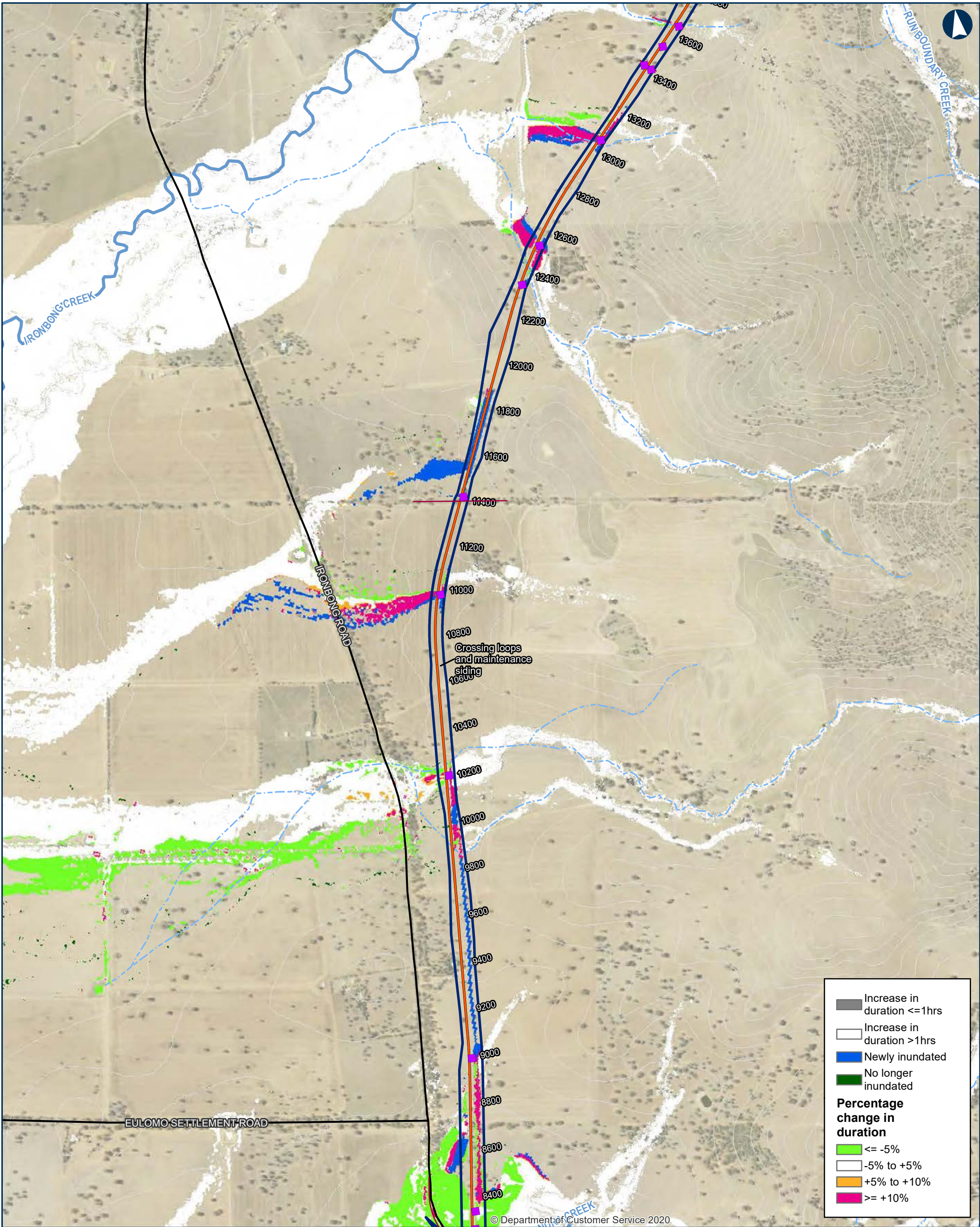
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINAL 1% AEP Change in Duration

Map 3 of 9

0 200 400 Metres

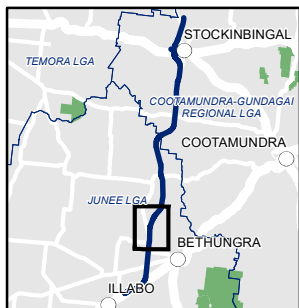
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- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

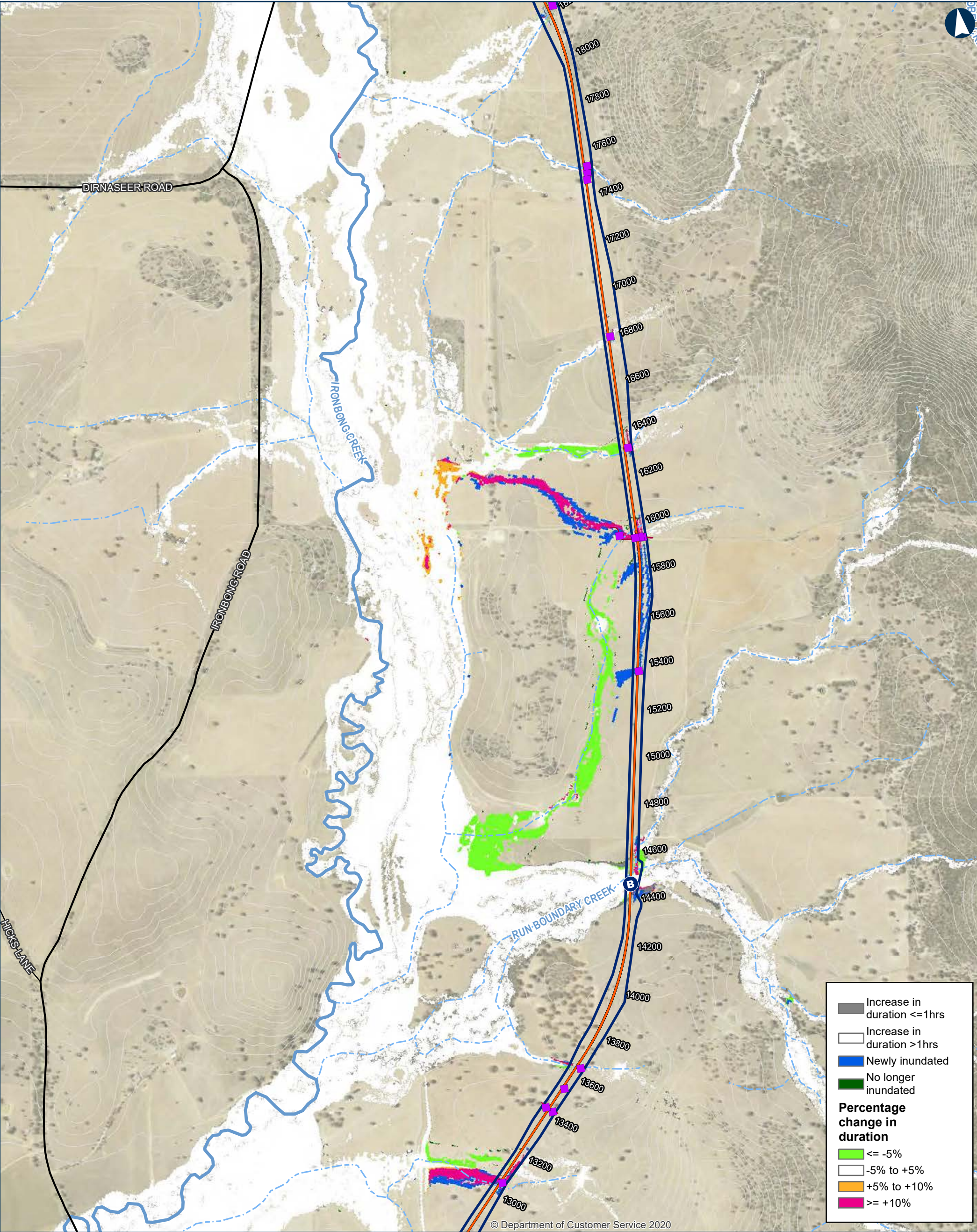
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 4 of 9

0 200 400 Metres

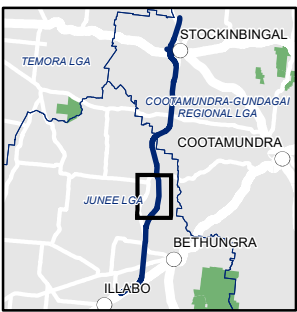
Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

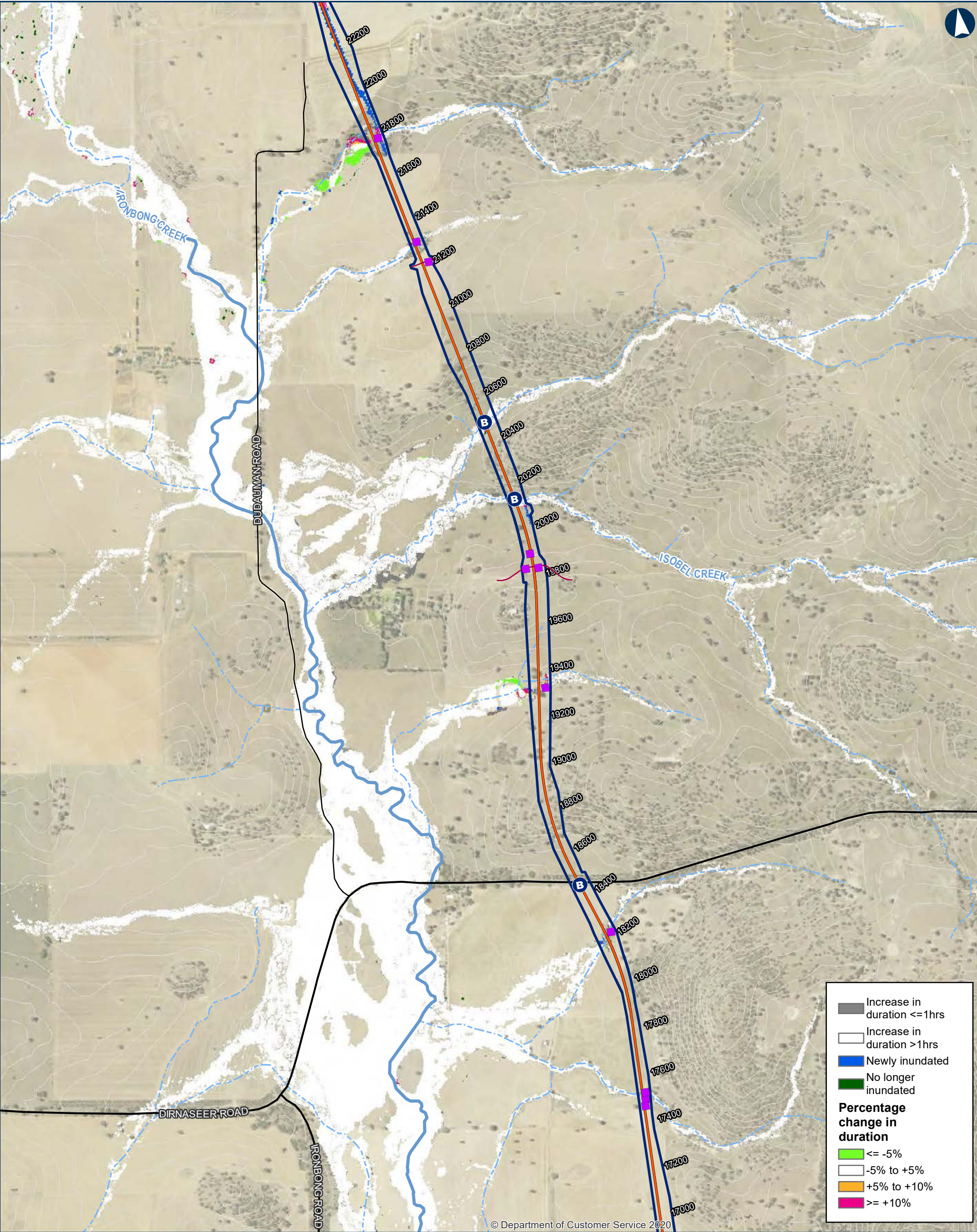
Paper: A3
Scale: 1:15,000

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 5 of 9

0 200 400 Metres

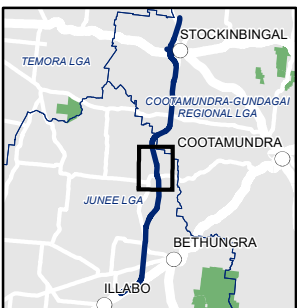
Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

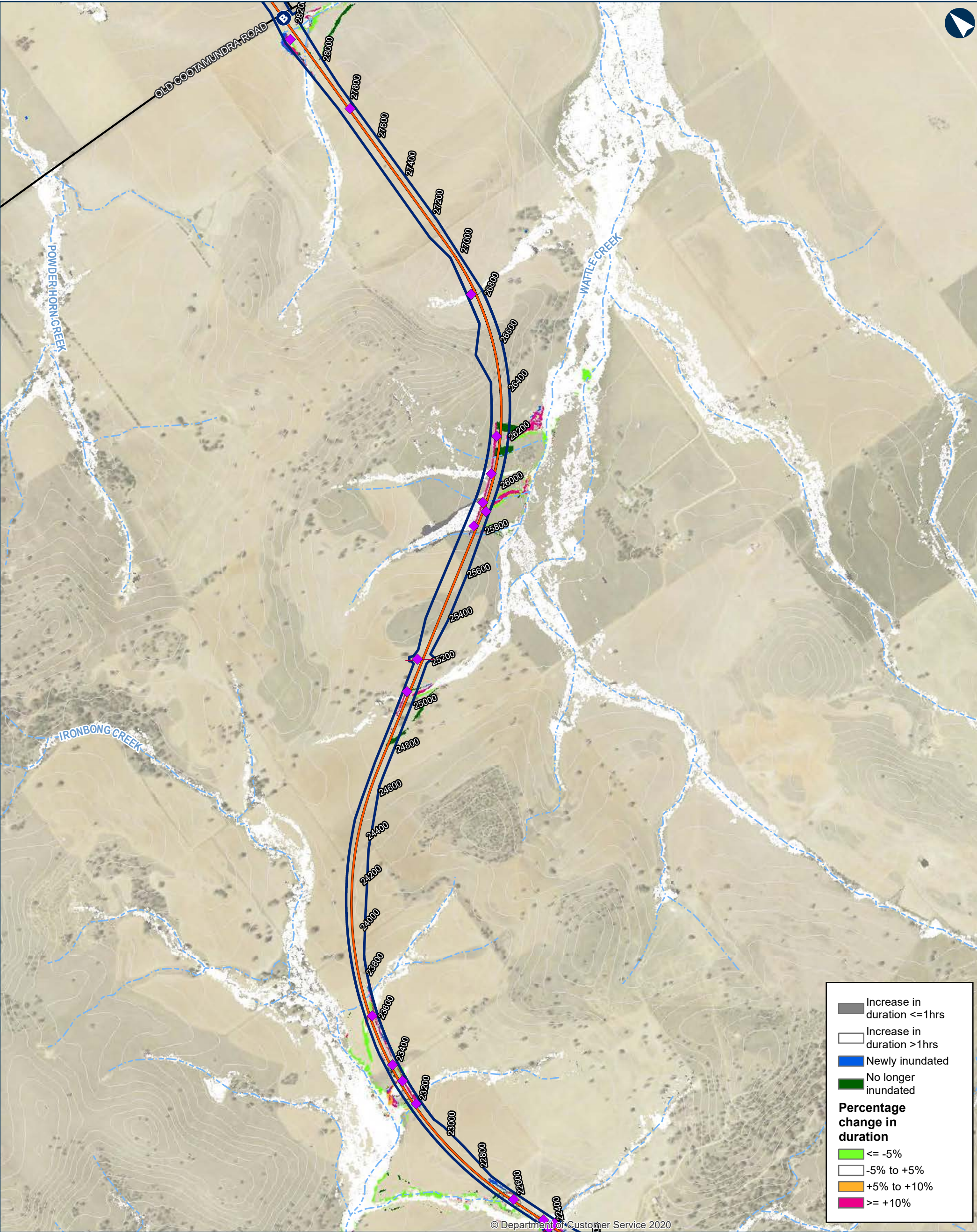
Paper: A3
Scale: 1:15,000

- Permanent acquisition boundary
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- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
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- Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 6 of 9

0 200 400 Metres

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

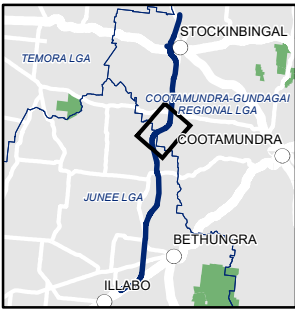
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

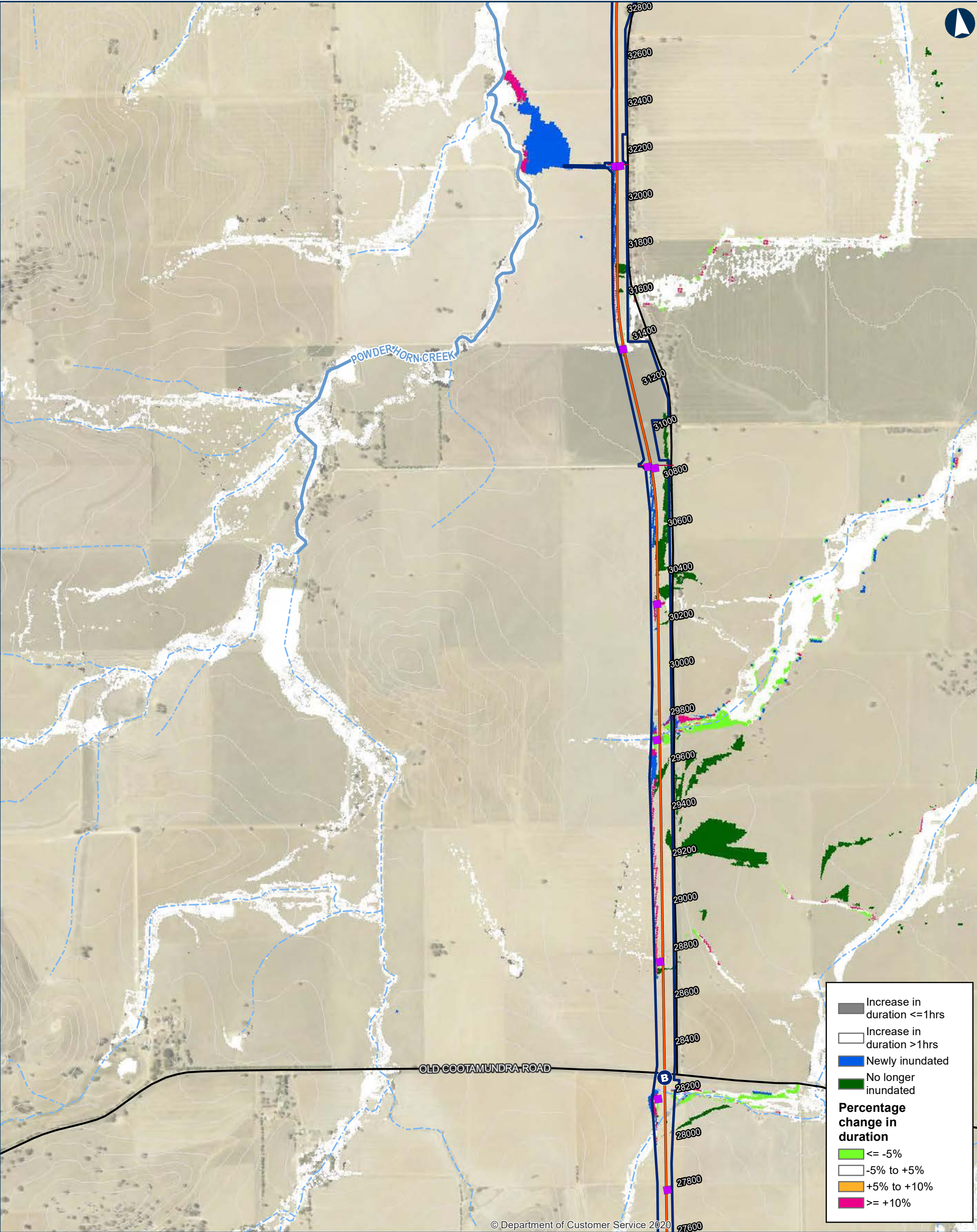
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 7 of 9

0 200 400 Metres

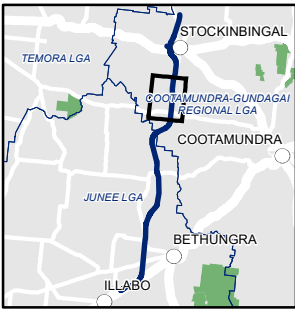
Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

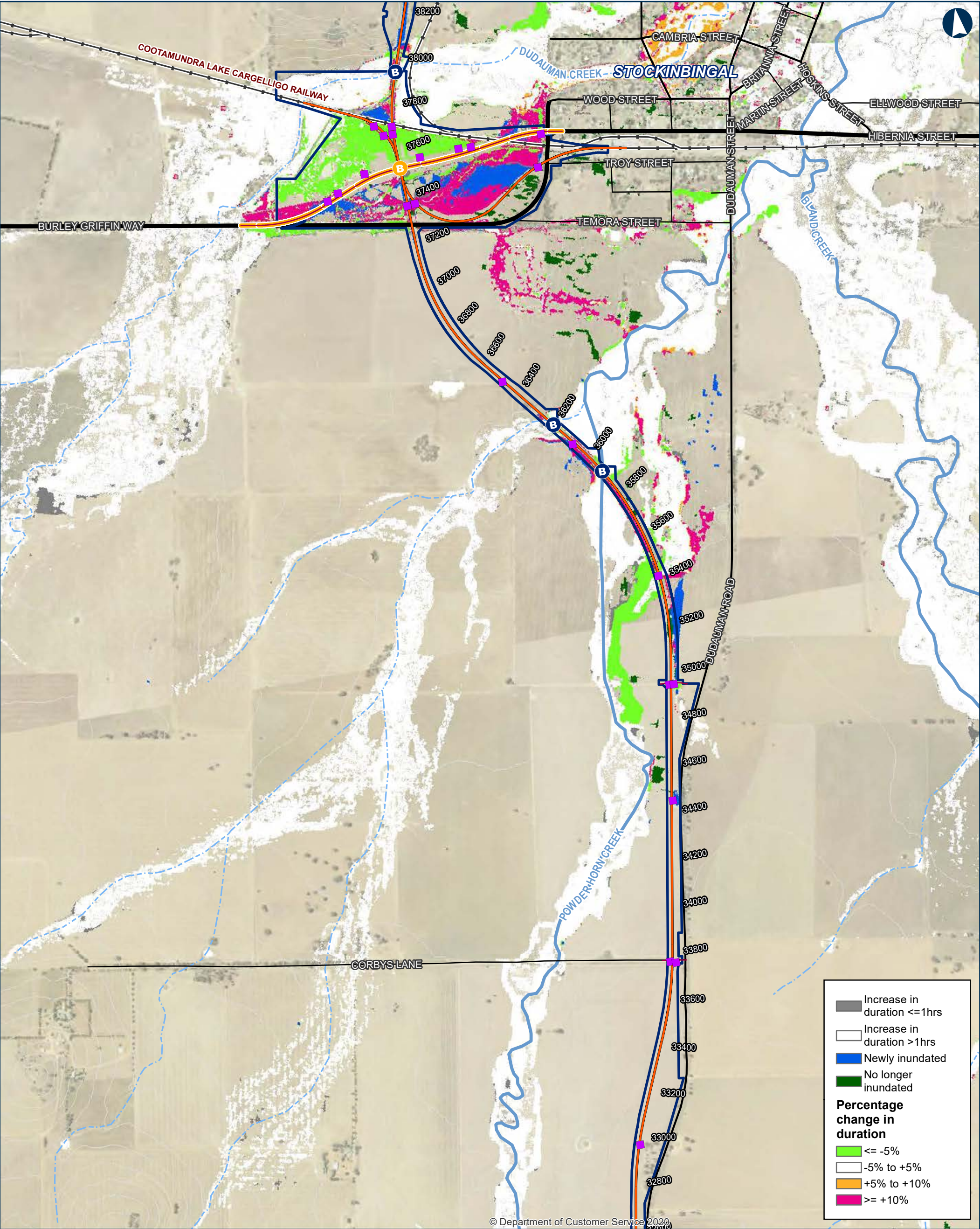
Paper: A3
Scale: 1:15,000

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 8 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

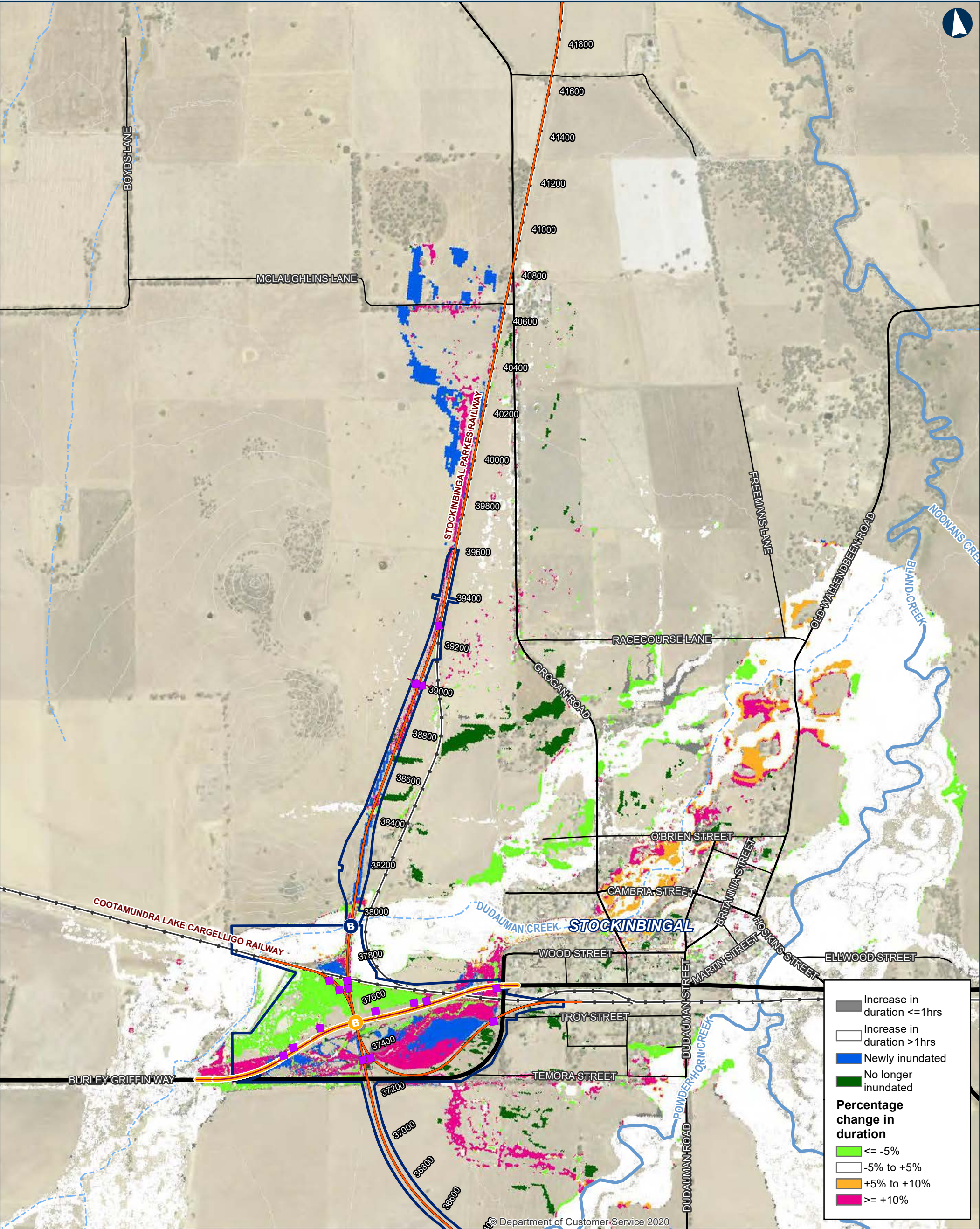
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Change in Duration

Map 9 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

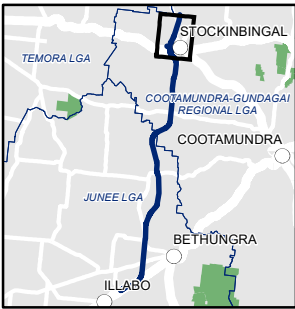
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

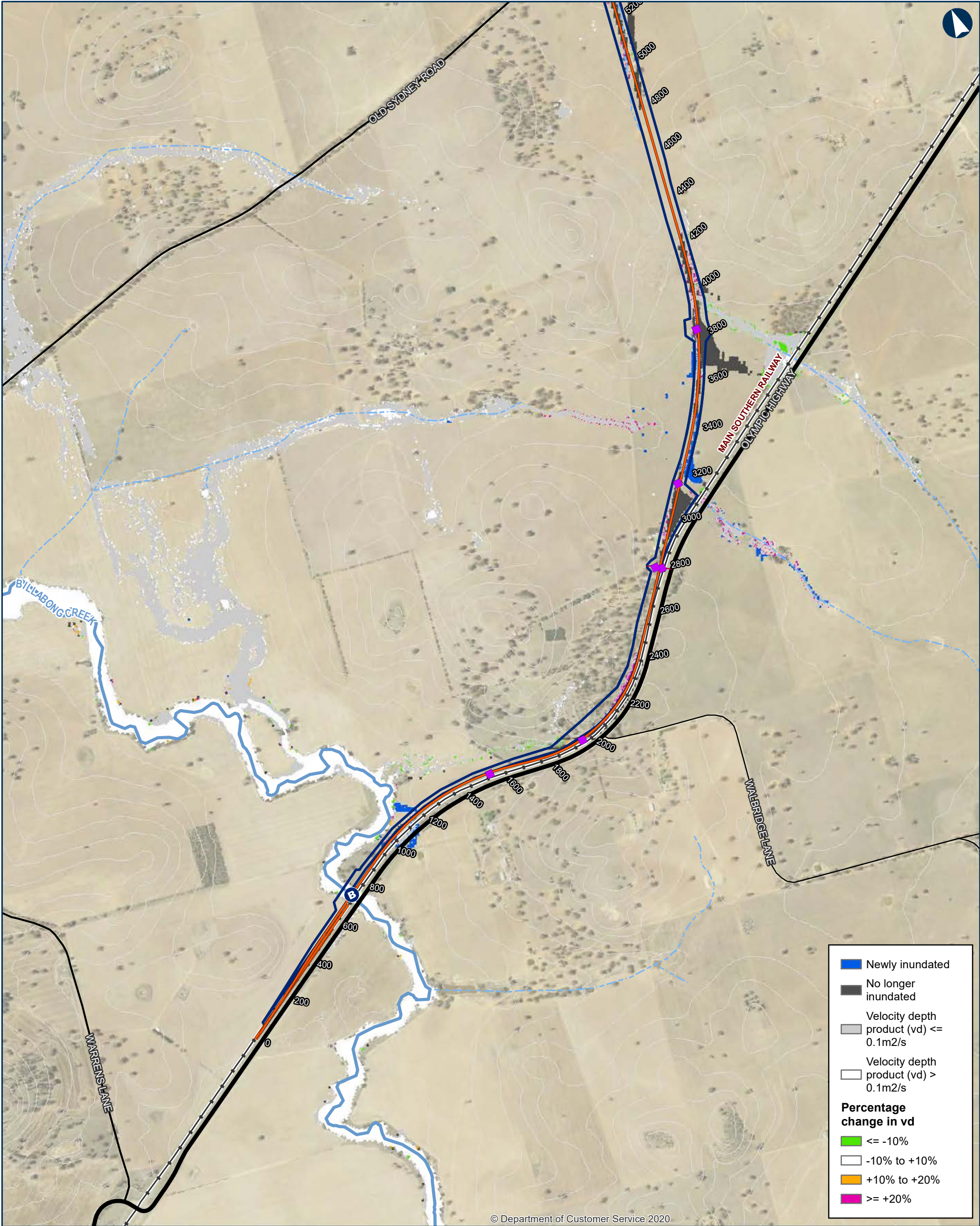
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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



ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

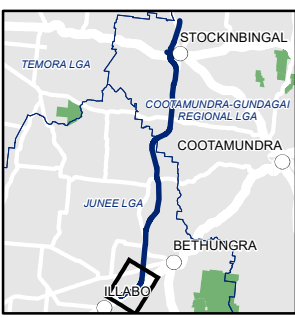
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

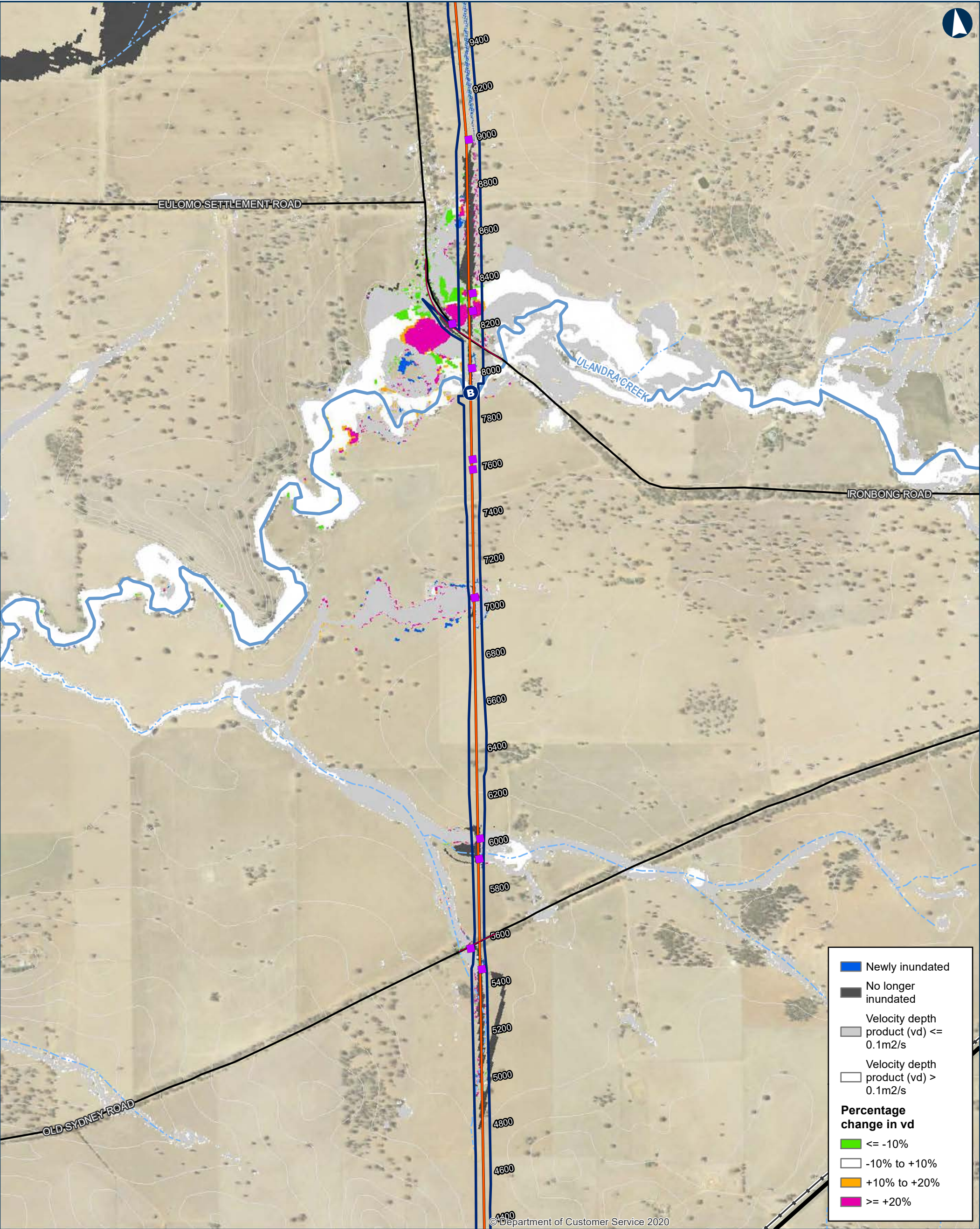
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 2 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

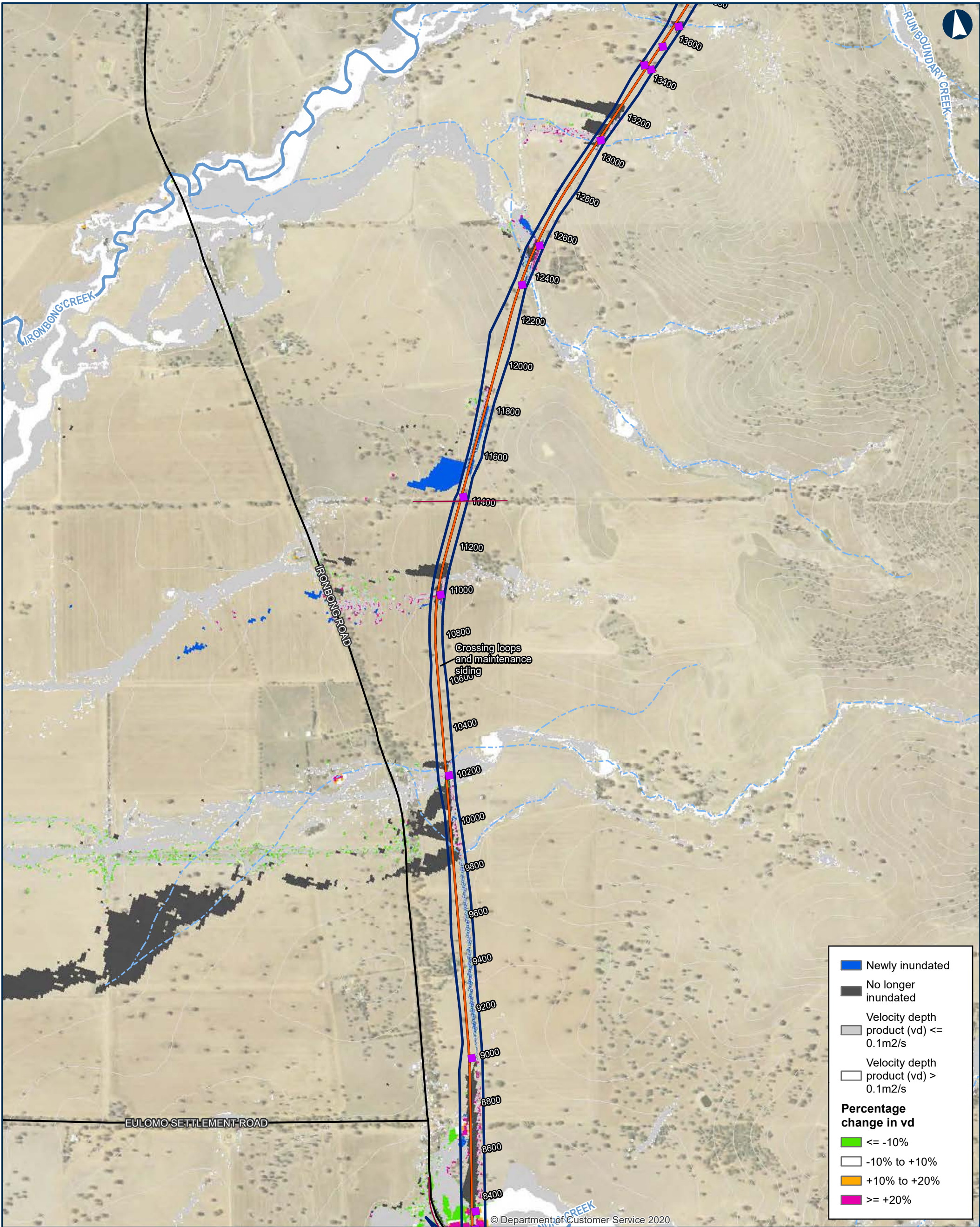
Sub-arterial road

Arterial road

INLAND RAIL ARTC

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\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\0_02EY\220_0122_HYD_0_2EYHazard_v4.mxd



ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

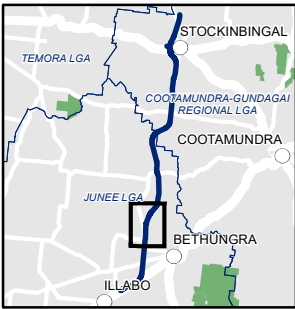
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge

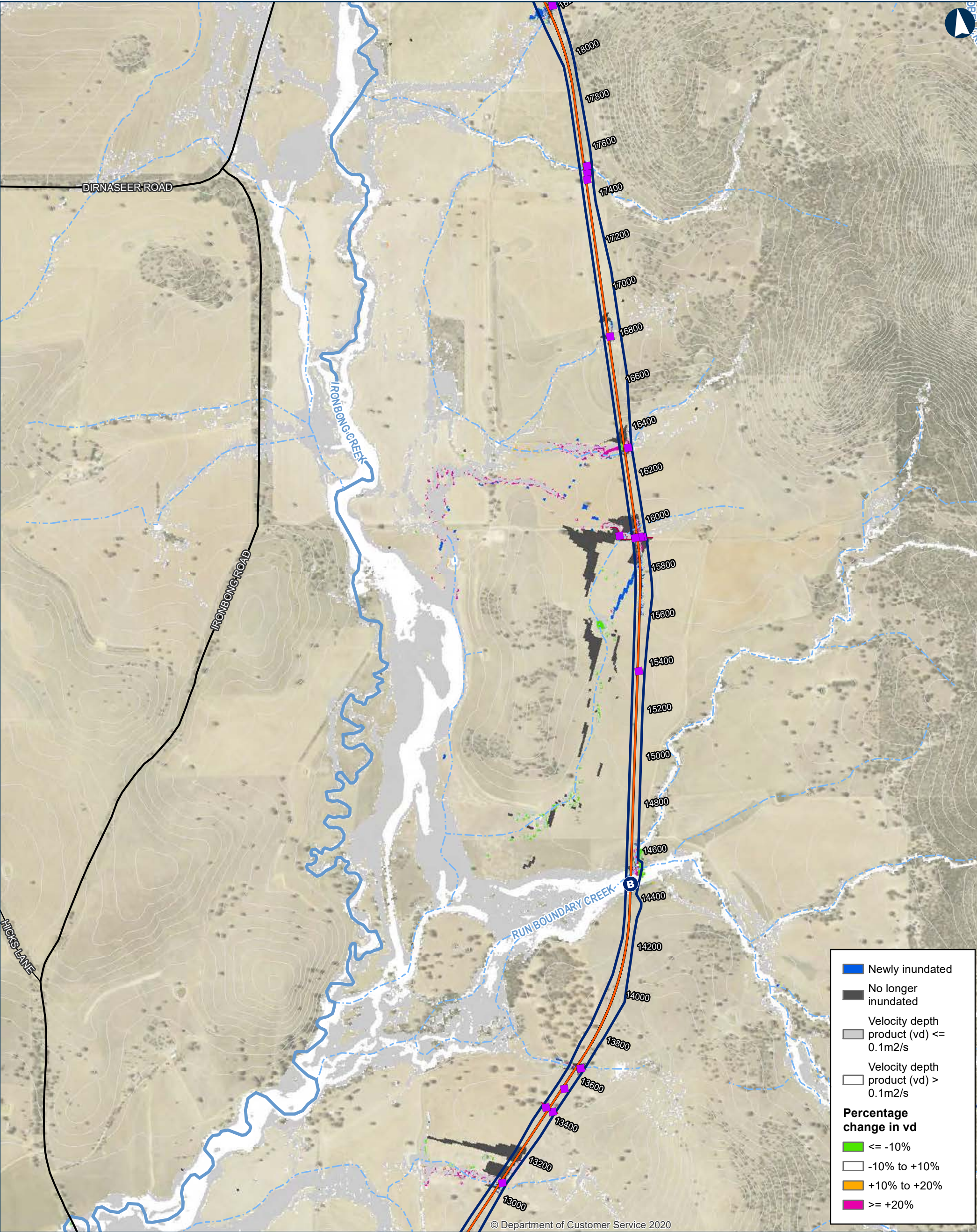
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 4 of 9

0 200 400 Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

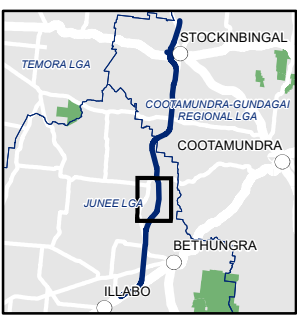
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

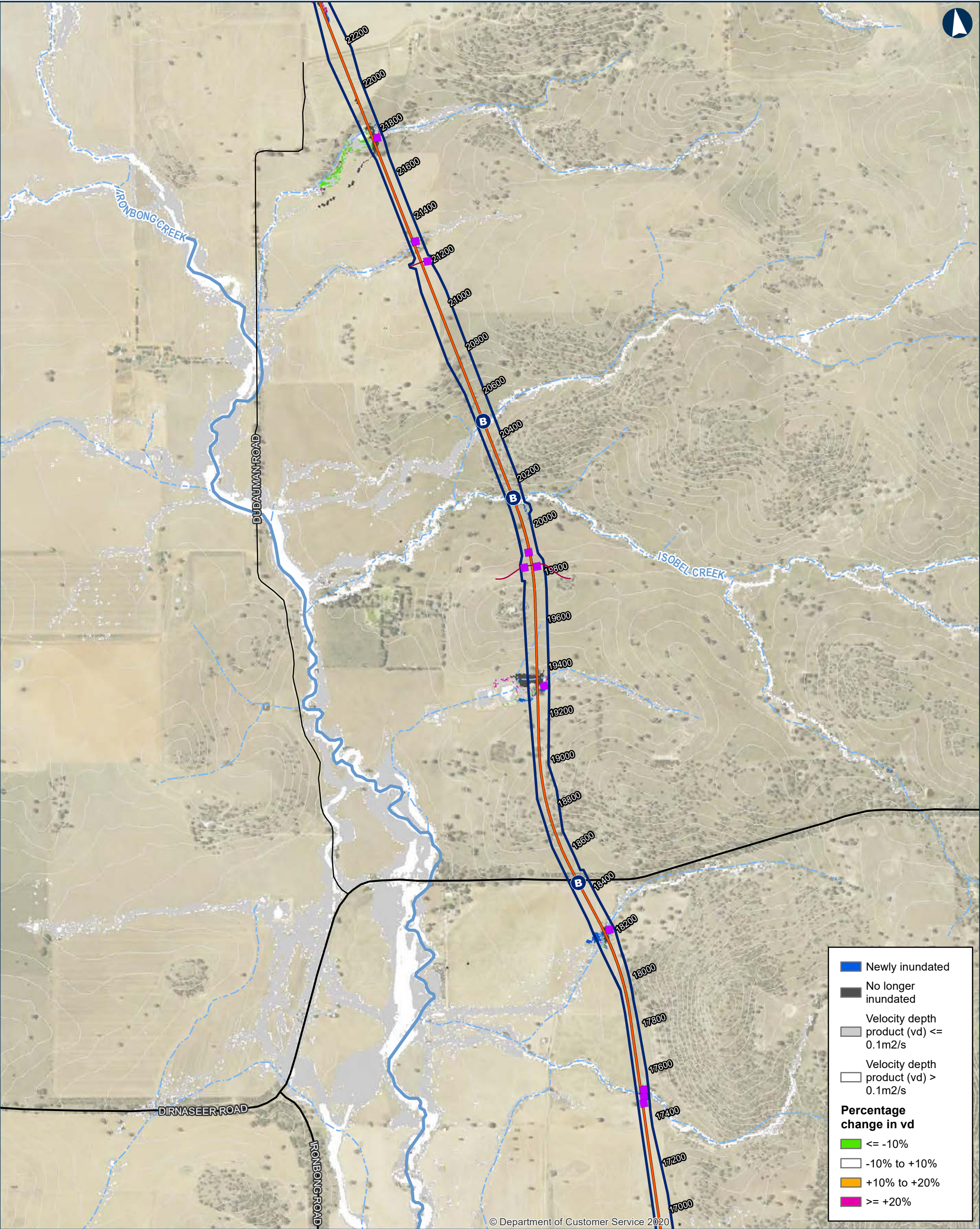
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 5 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

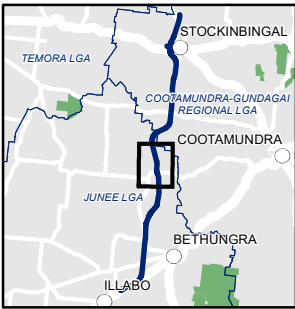
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

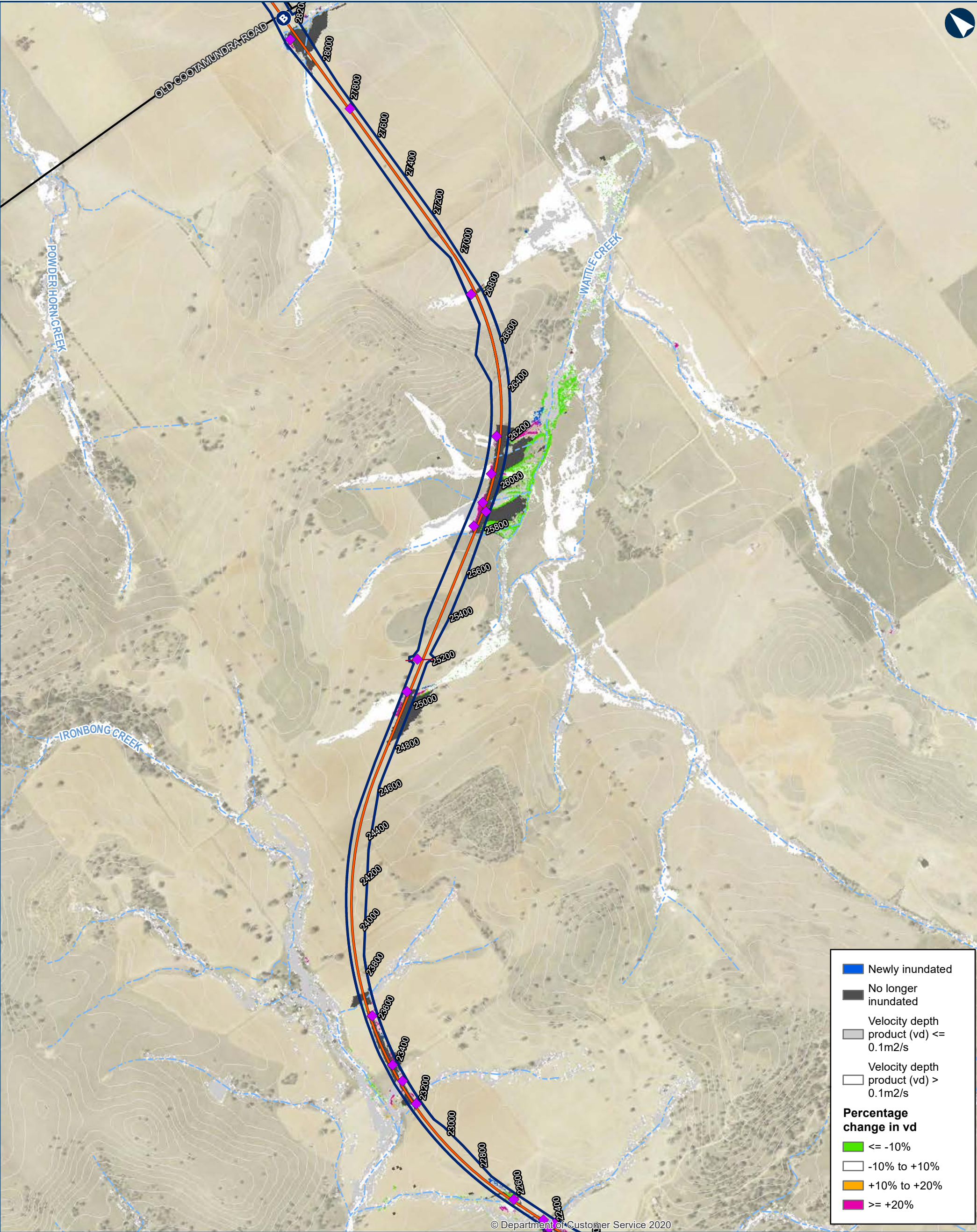
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 6 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

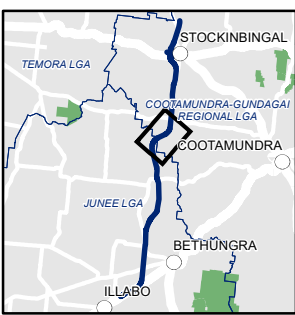
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

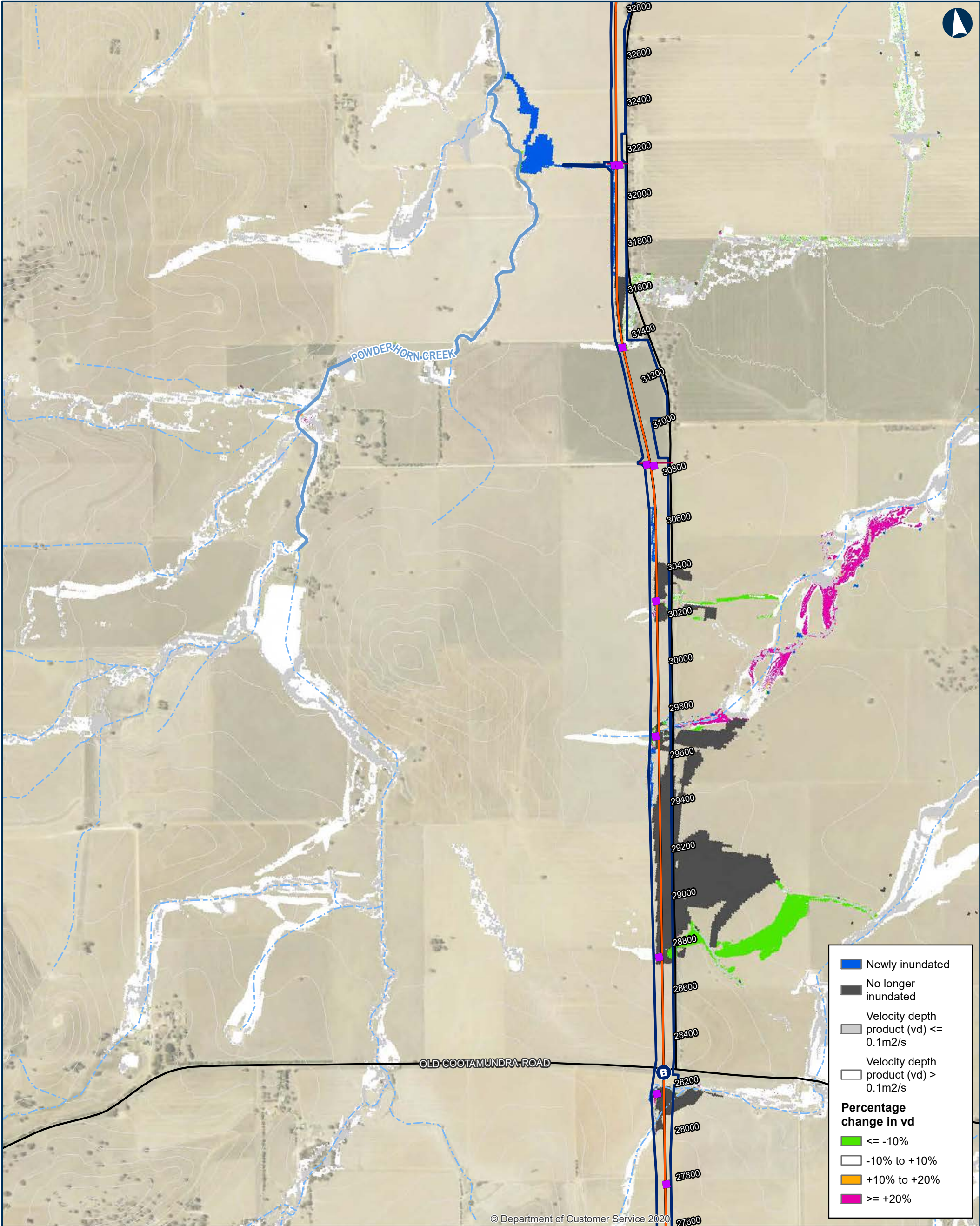
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 7 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

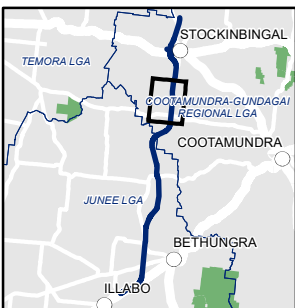
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

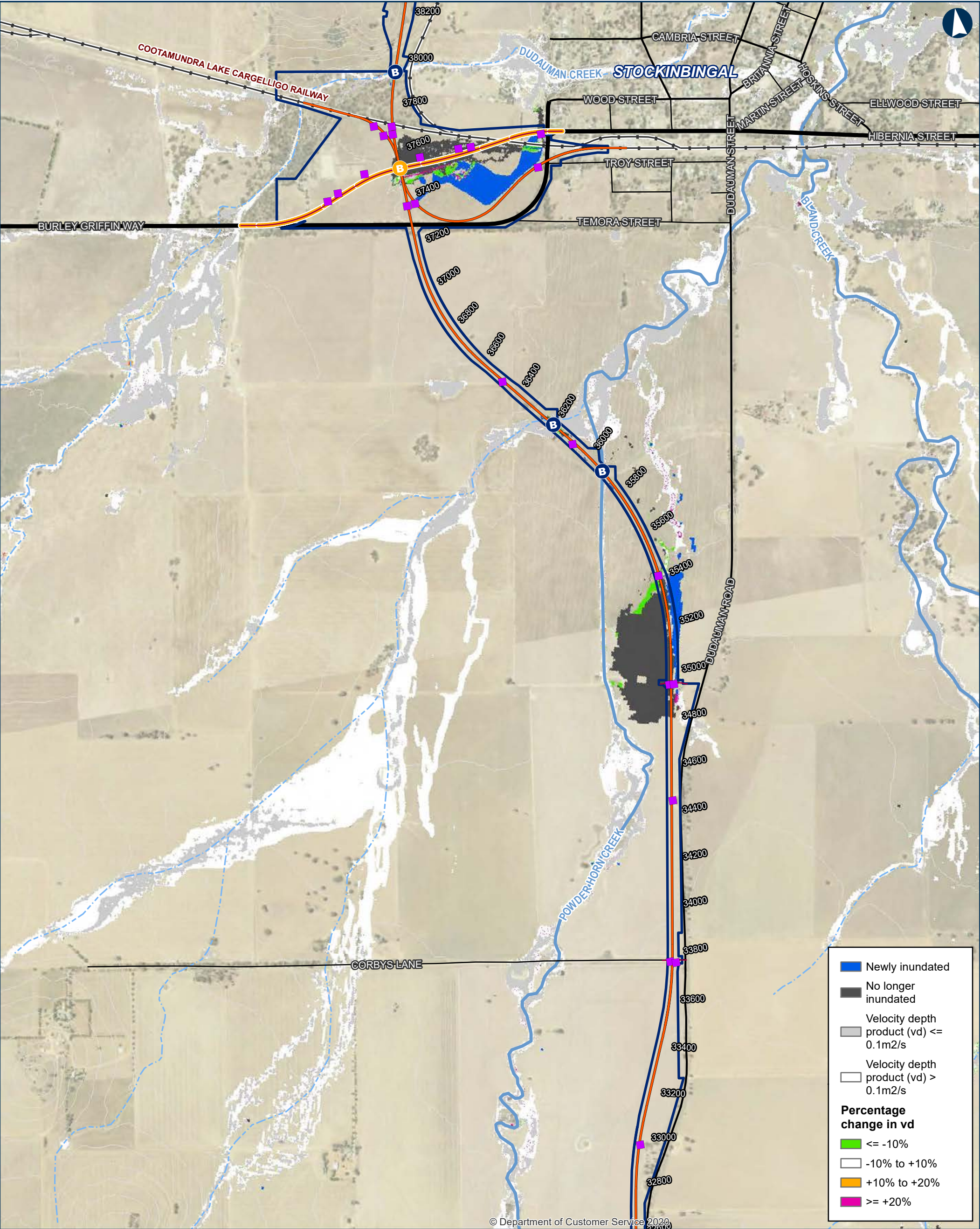
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 8 of 9

0 200 400 Metres

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

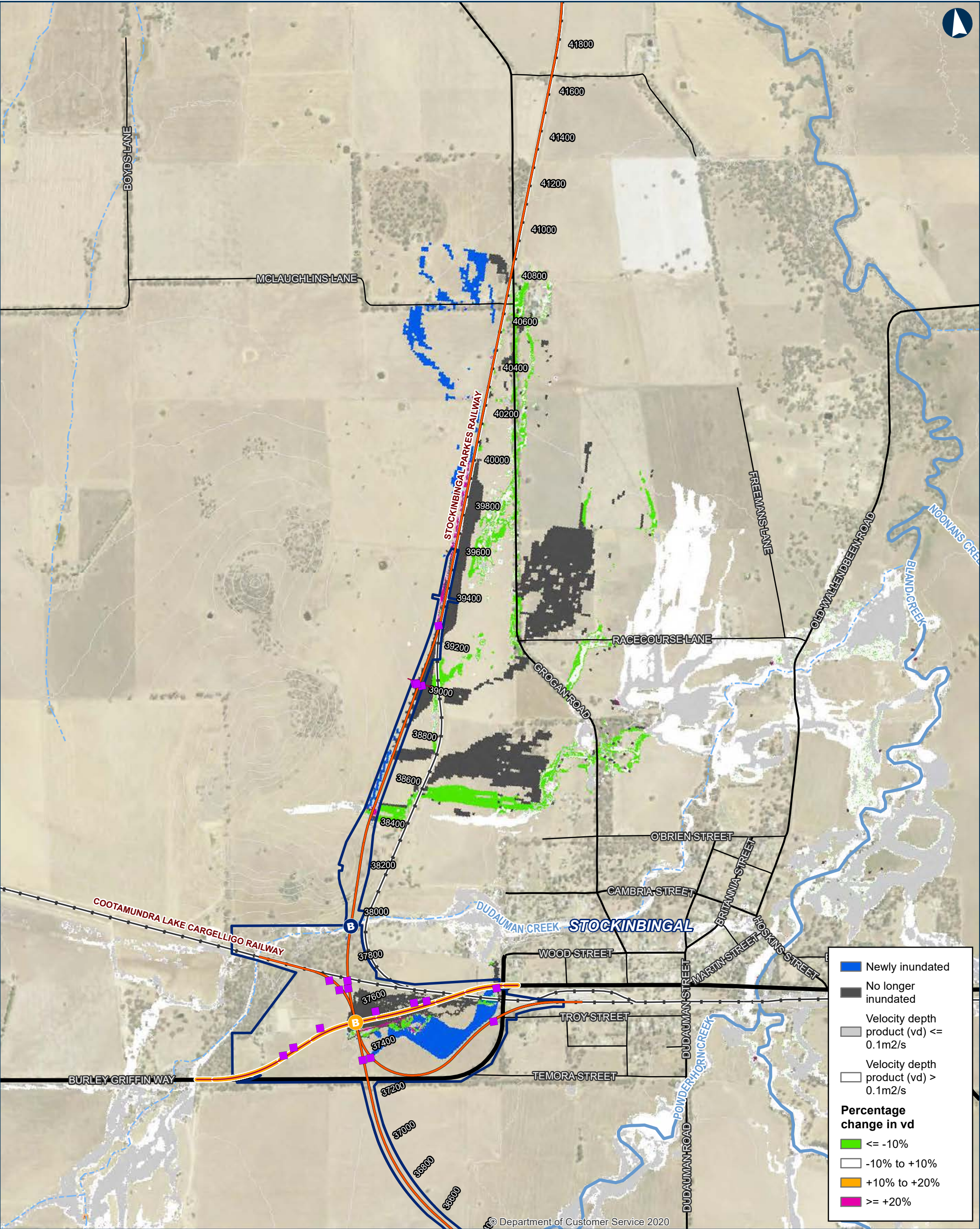
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.2EY Change in Hazard

Map 9 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Burley Griffin Way realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

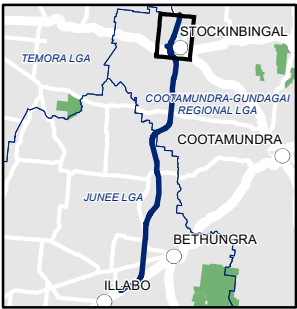
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

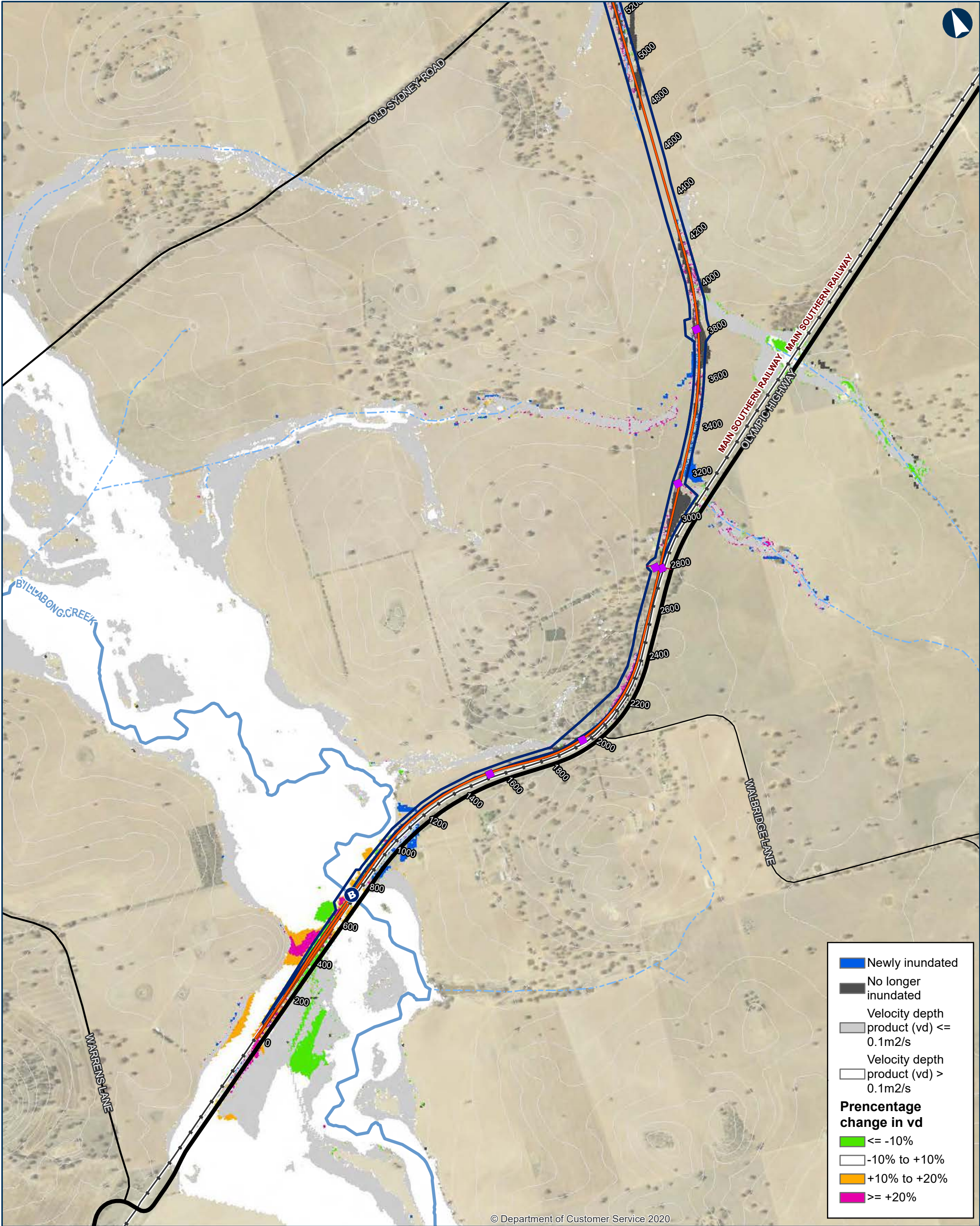
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge
Culvert

5m Contours

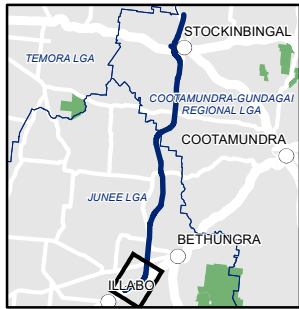
Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

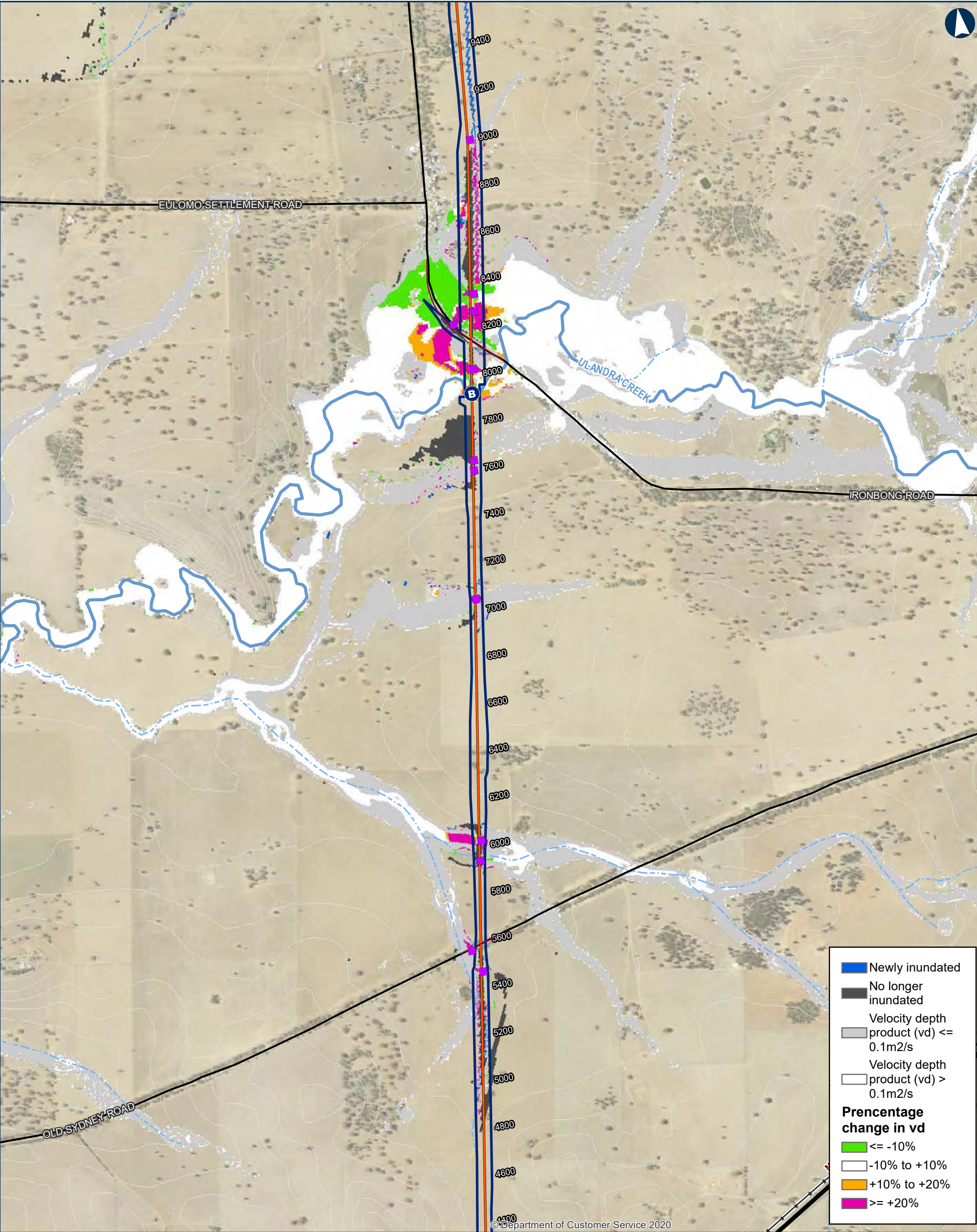
Local road

Sub-arterial road
Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 2 of 9

0200400Metres

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Date: 5/10/2023

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

B

Overbridge

B

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

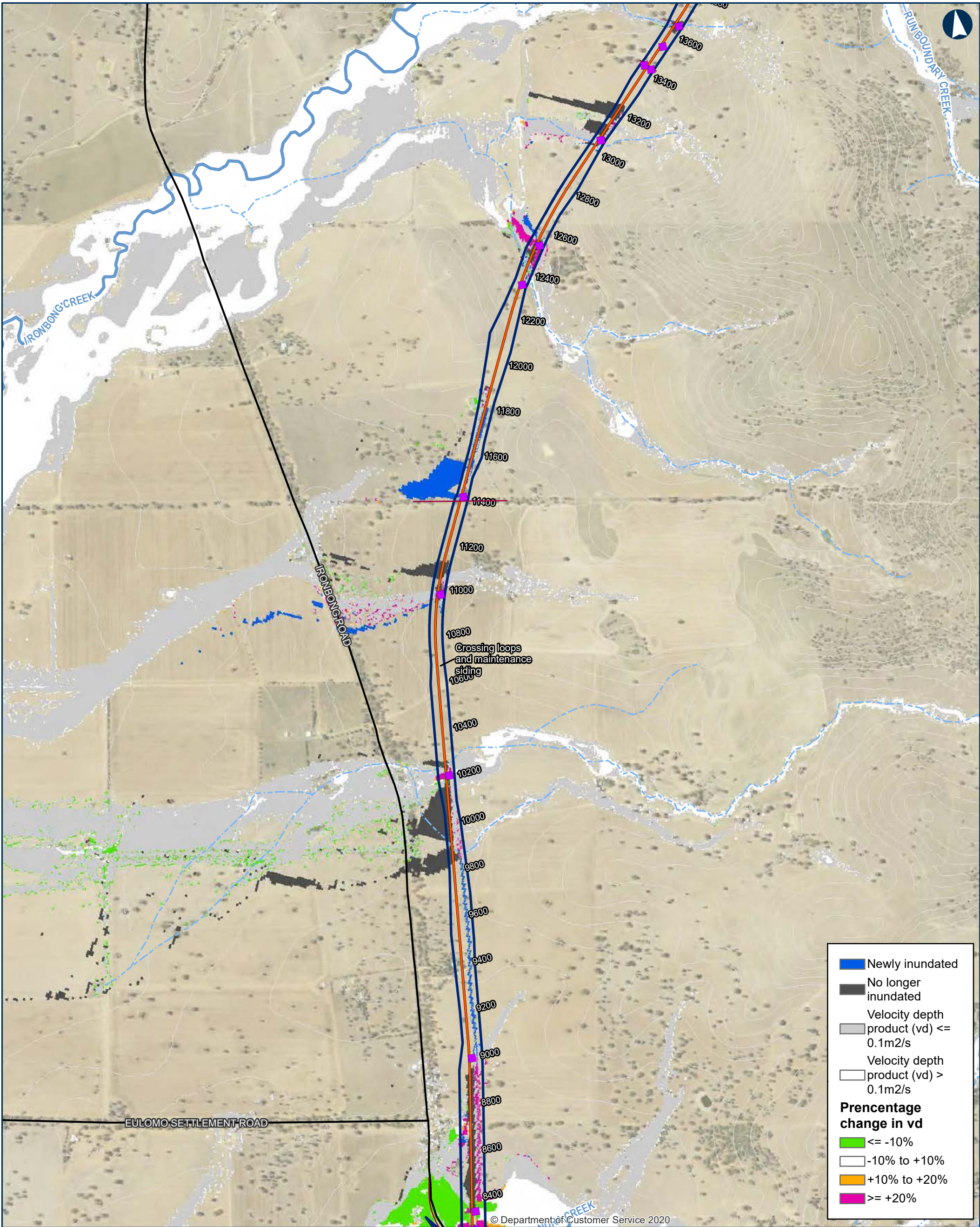
Sub-arterial road

Arterial road

INLAND RAIL ARTC

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

\\corp.pbwan.net\ANZ\Projects\IPS108286_Inland_Rail_Illab4_WIP\GIS\AWS\IPS108286_I2SITasks\220_0122_HYD_HydrologyReport\June2023\Documents\10AEP\220_0122_HYD_10AEPHazard_v5.mxd



ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 3 of 9

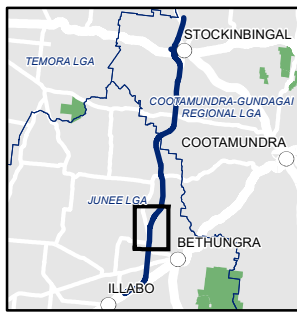
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

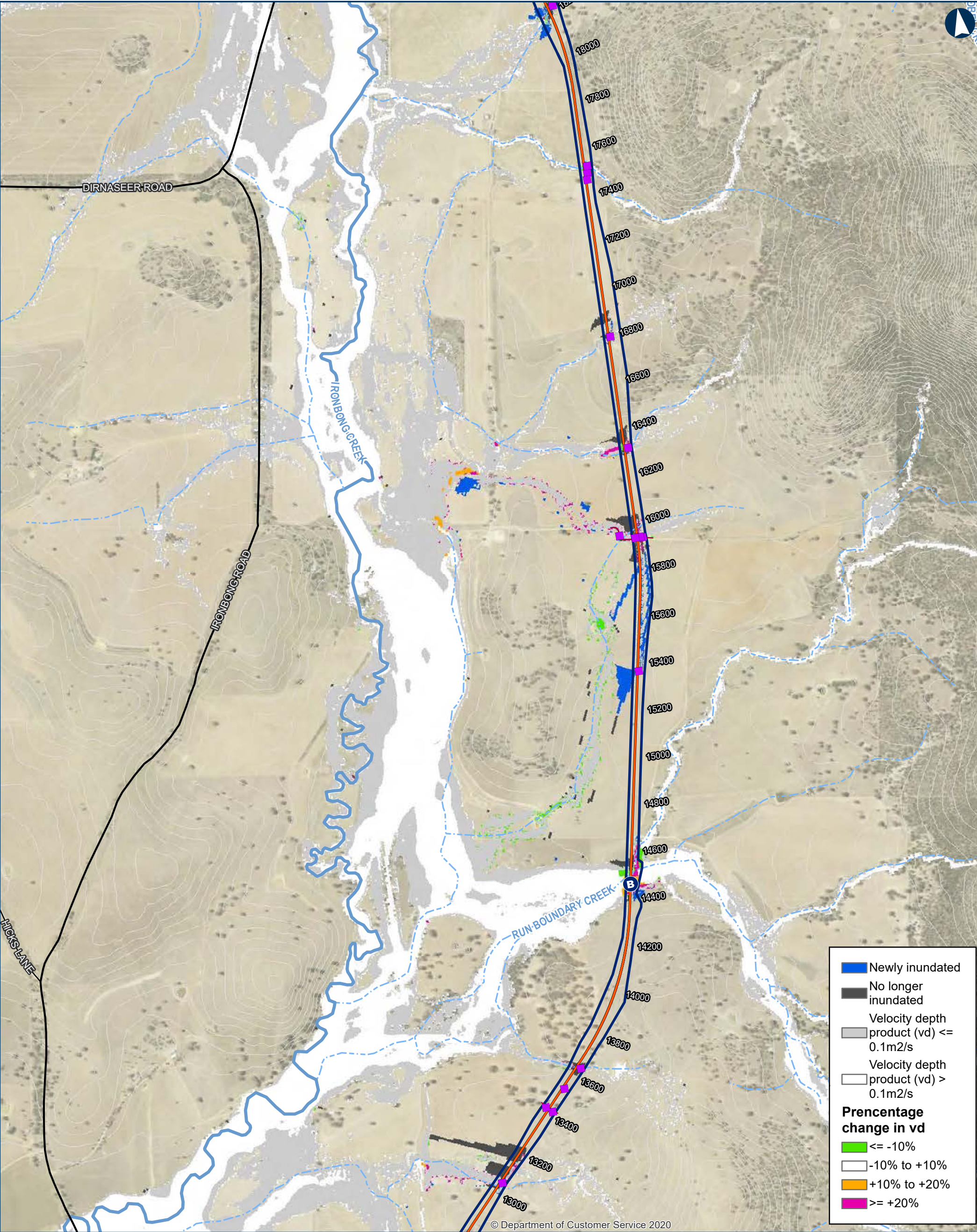
- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Overbridge

- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 4 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

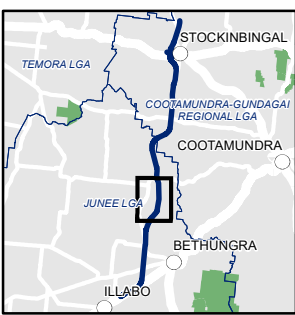
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

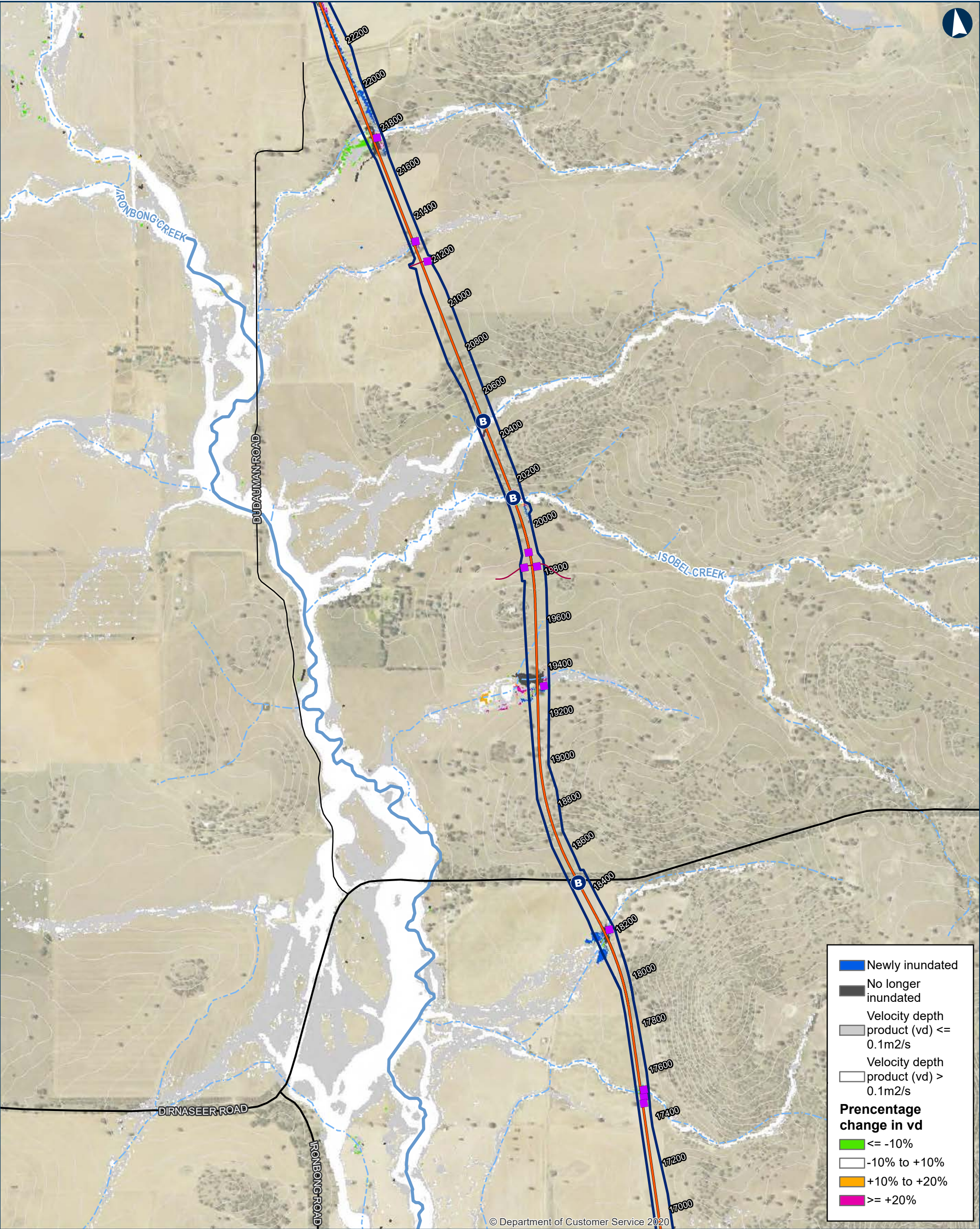
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 5 of 9

0 200 400 Metres

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Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

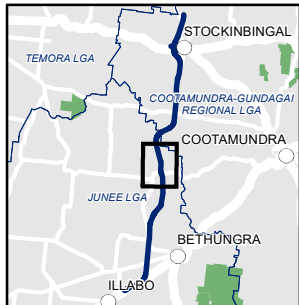
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

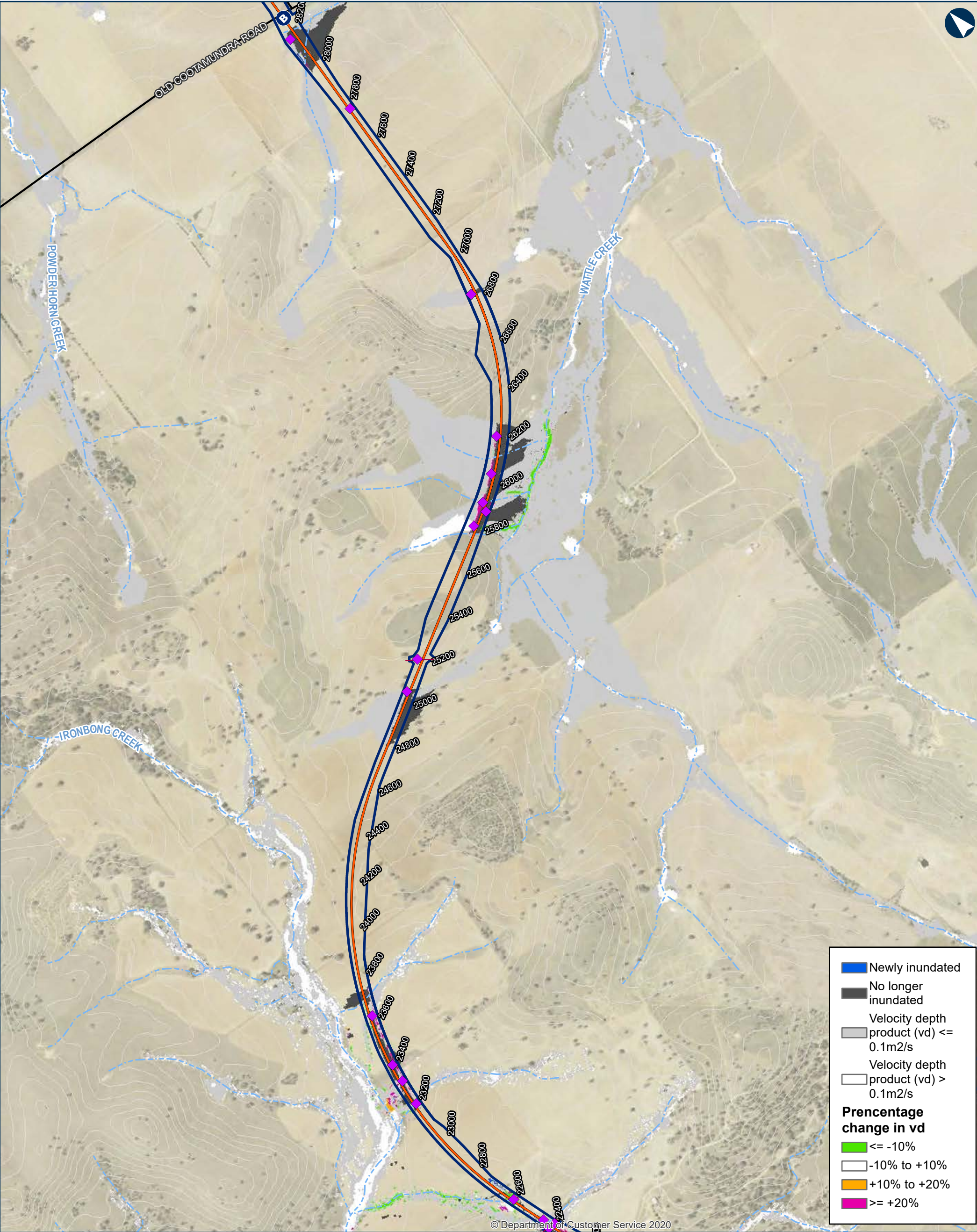
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 6 of 9

0 200 400 Metres

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Date: 5/10/2023
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

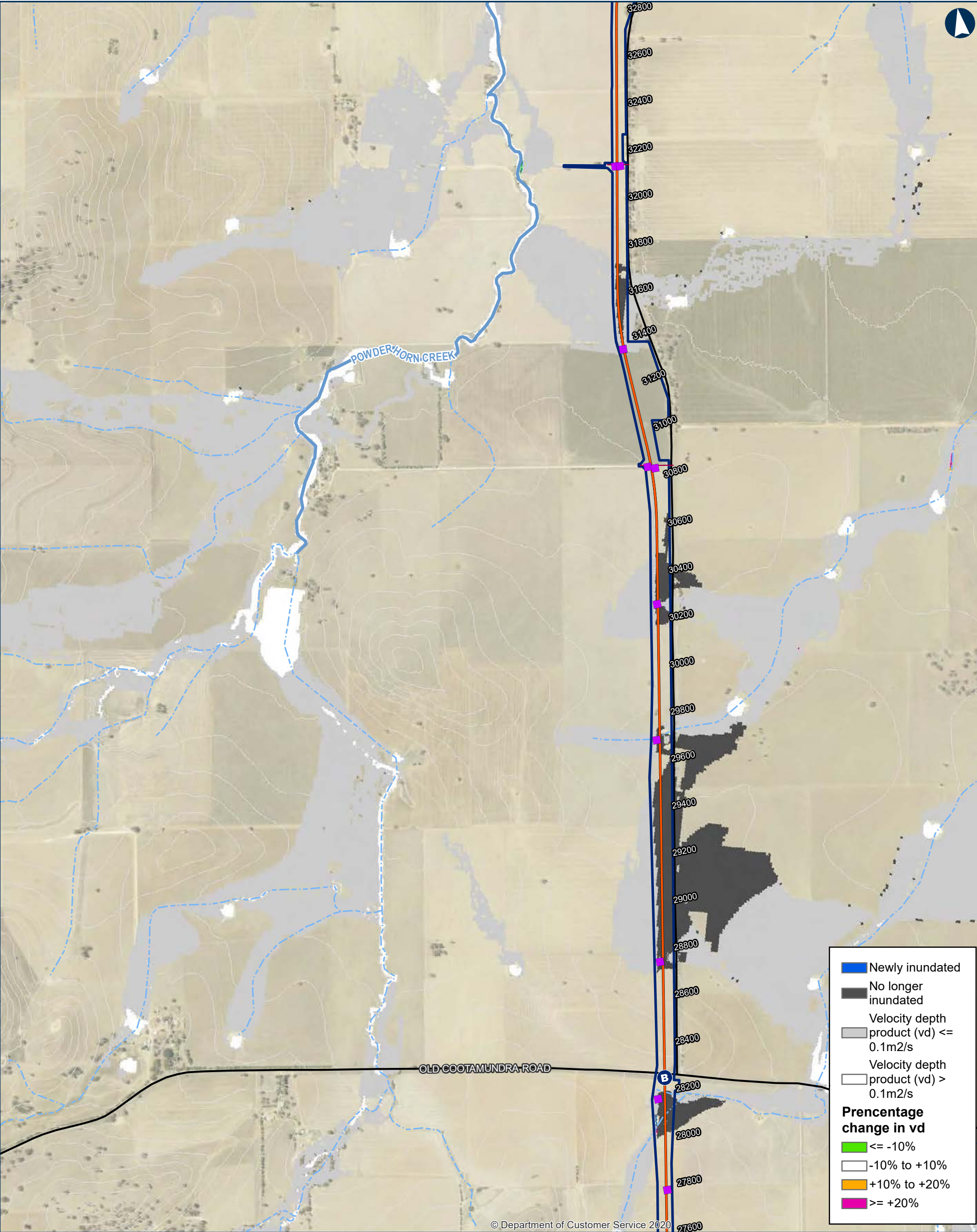
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 7 of 9

0 200 400 Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

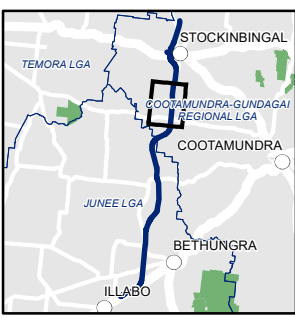
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

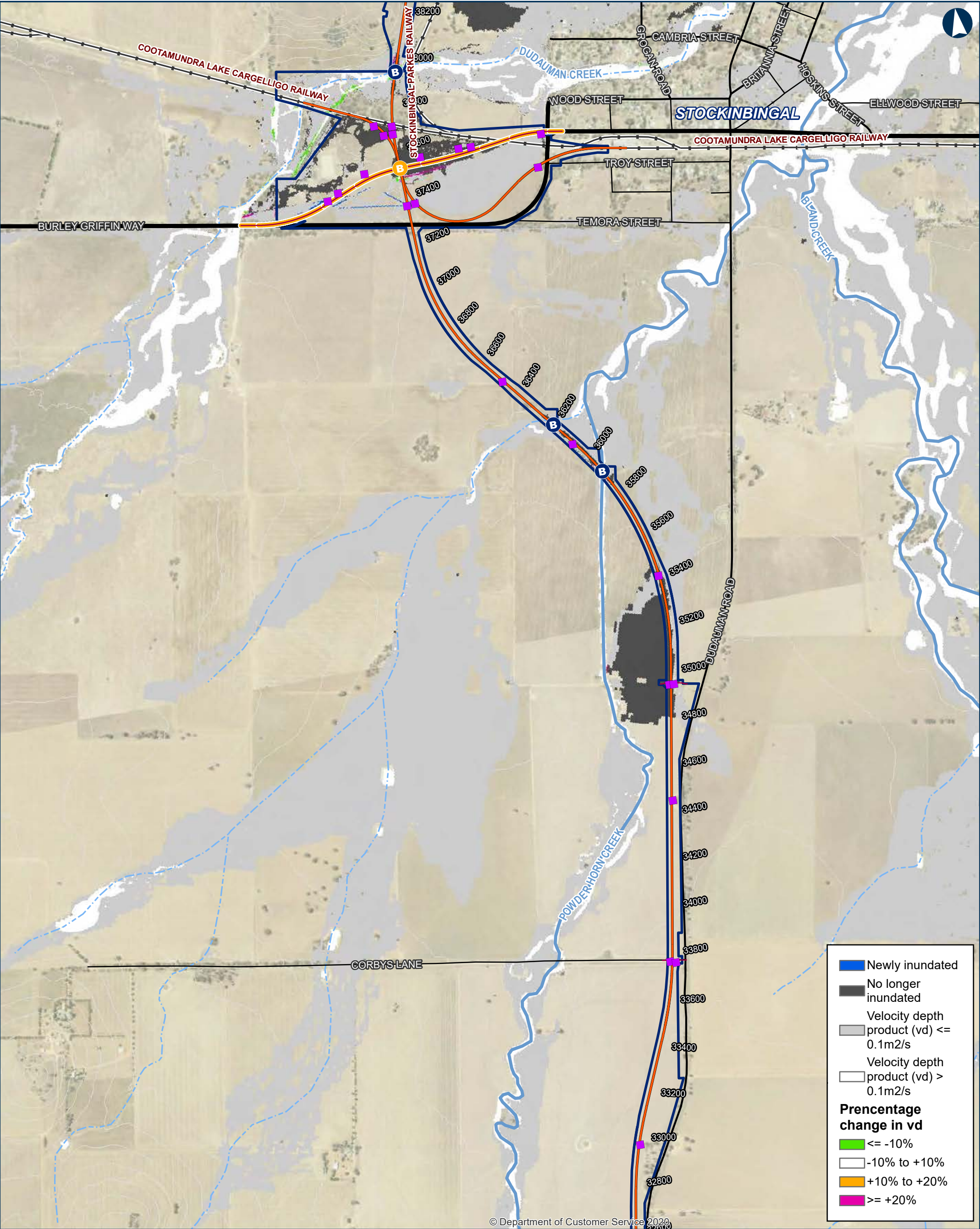
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 8 of 9

0 200 400 Metres

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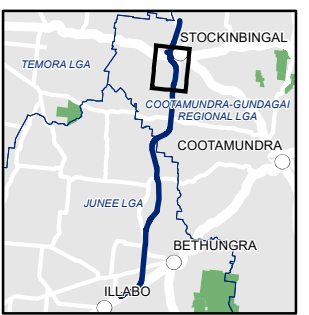
Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- 40950

Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Burley Griffin Way realignment
- B

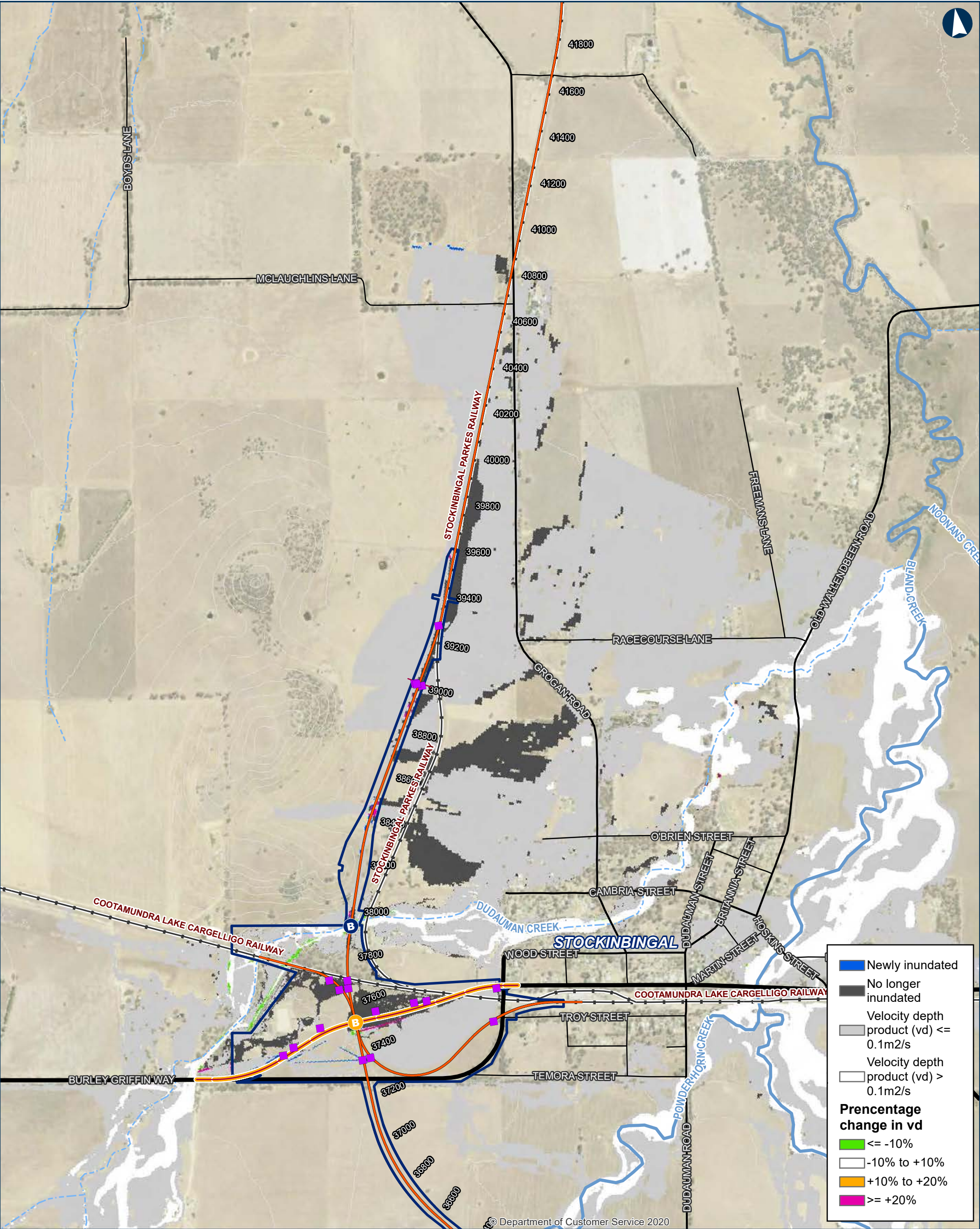
Overbridge
- B

Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 10% AEP Change in Hazard

Map 9 of 9

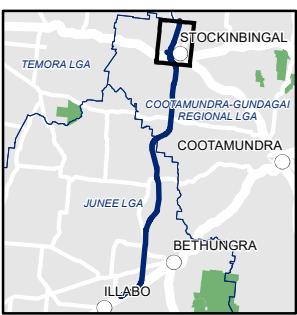
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Coordinate System: GDA 1994 MGA Zone 55

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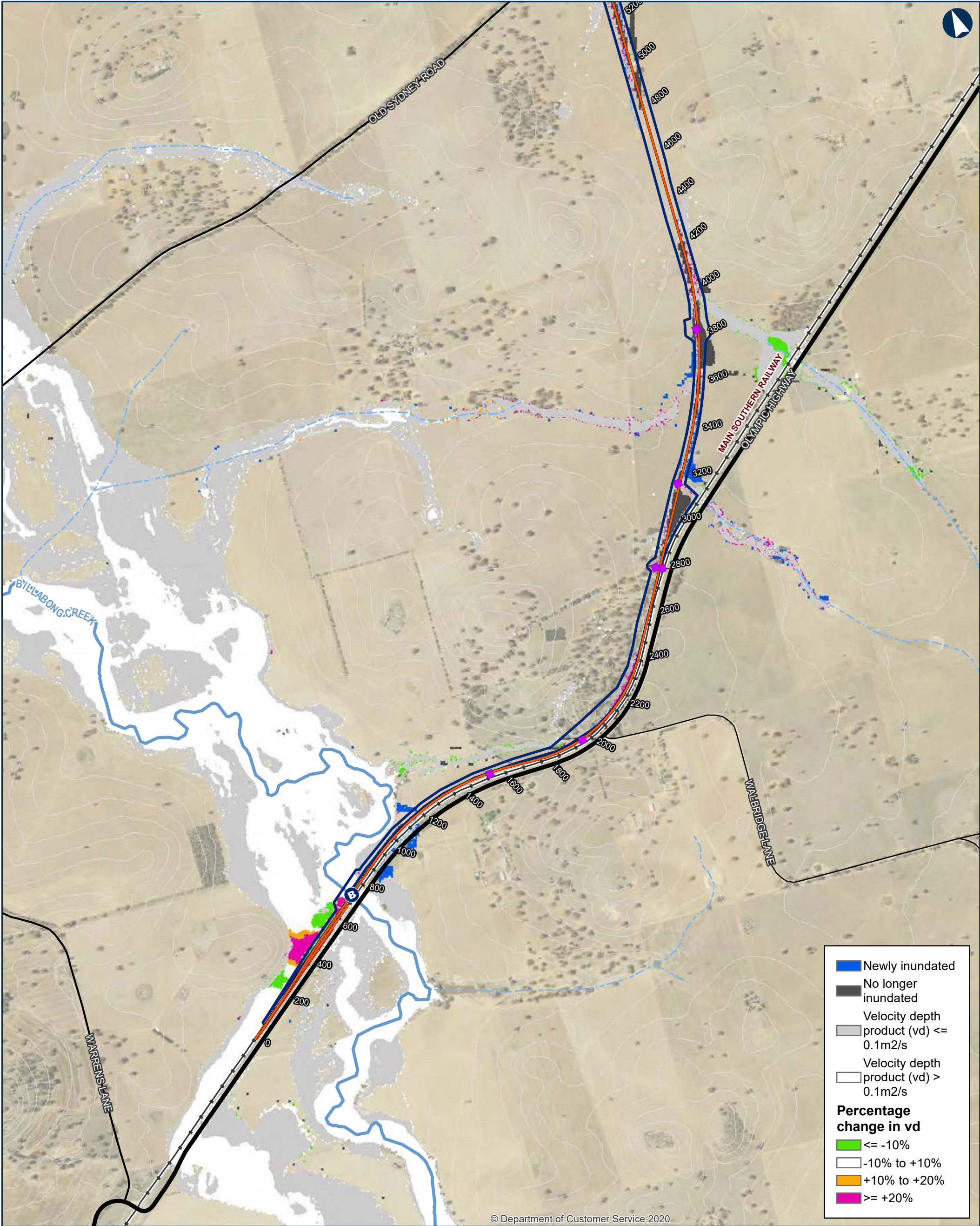
Date: 5/10/2023 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Burley Griffin Way realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 1 of 9

0 200 400 Metres

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Author: IRDJV

Paper: A3
Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge
Culvert

5m Contours

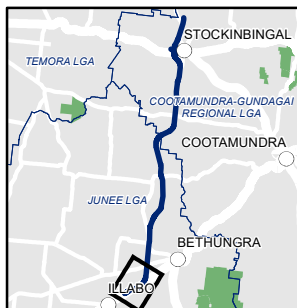
Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

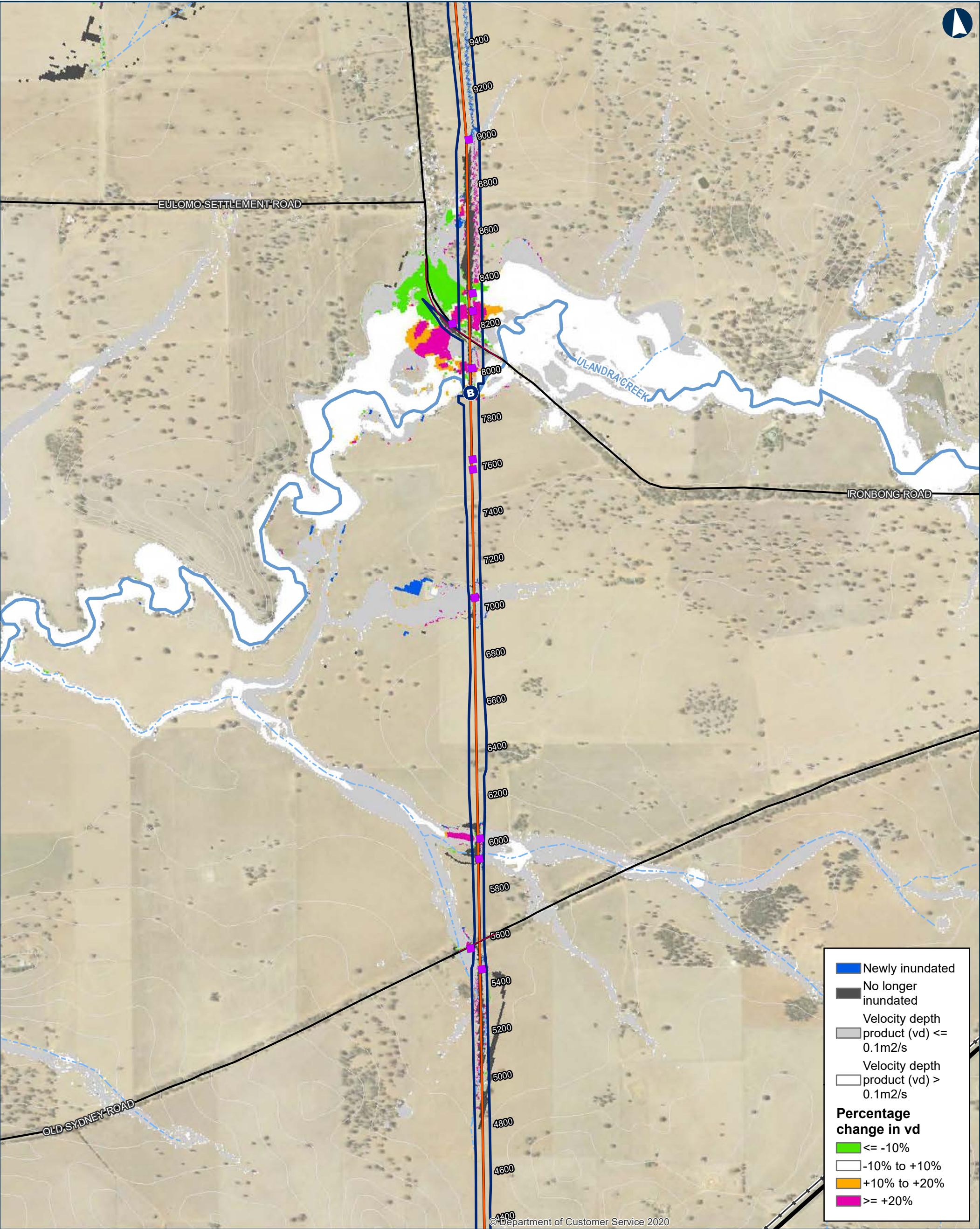
Local road

Sub-arterial road
Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 2 of 9

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

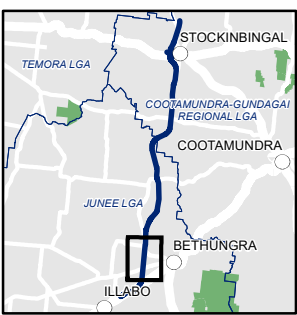
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

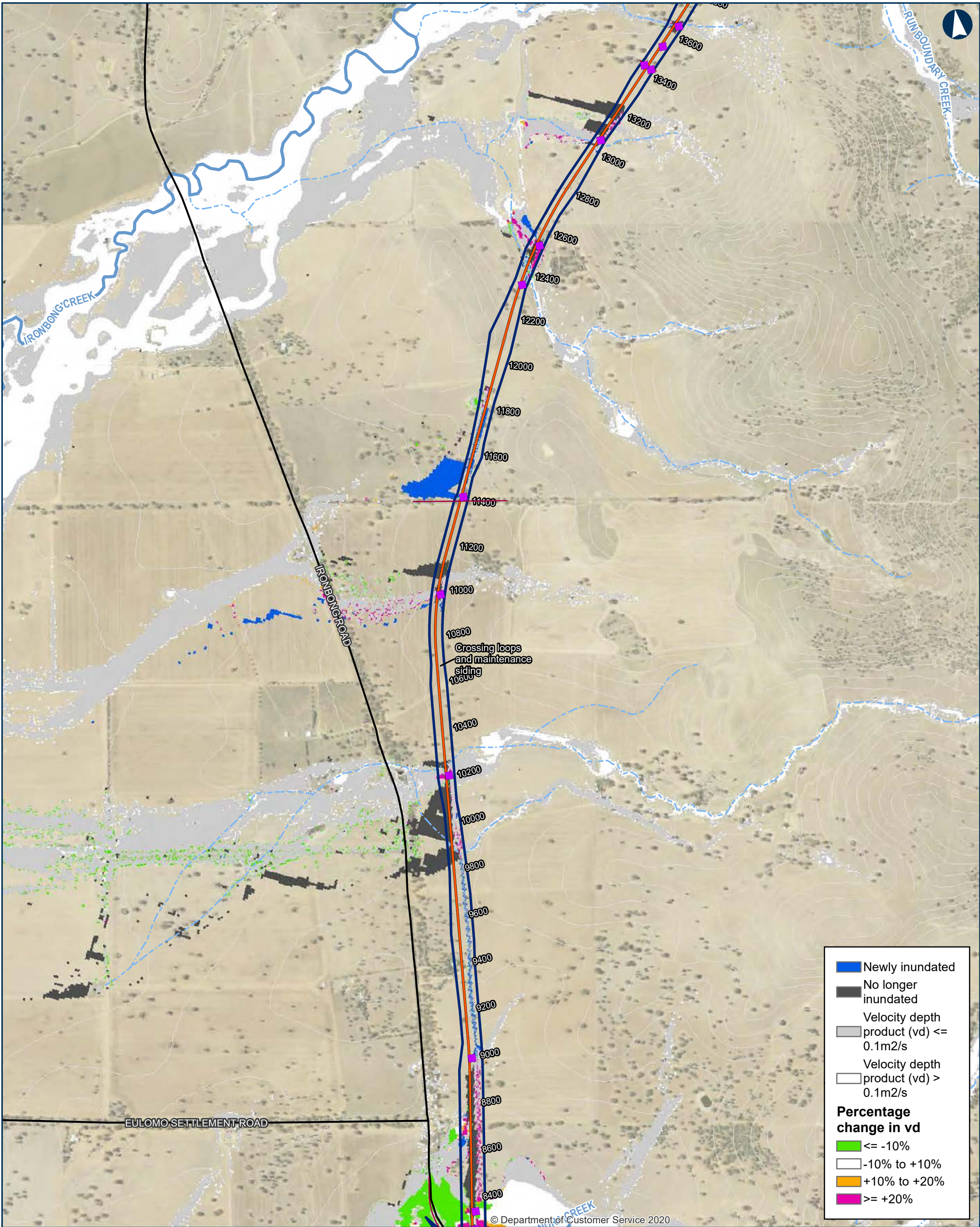
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

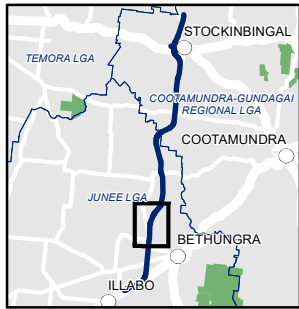
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Data Sources: IRDJV, ARTC, LPI

- Permanent acquisition boundary
- Chainage (distance in metres from southern limit of the proposal) 40950
- New track/track upgrade
- Overbridge

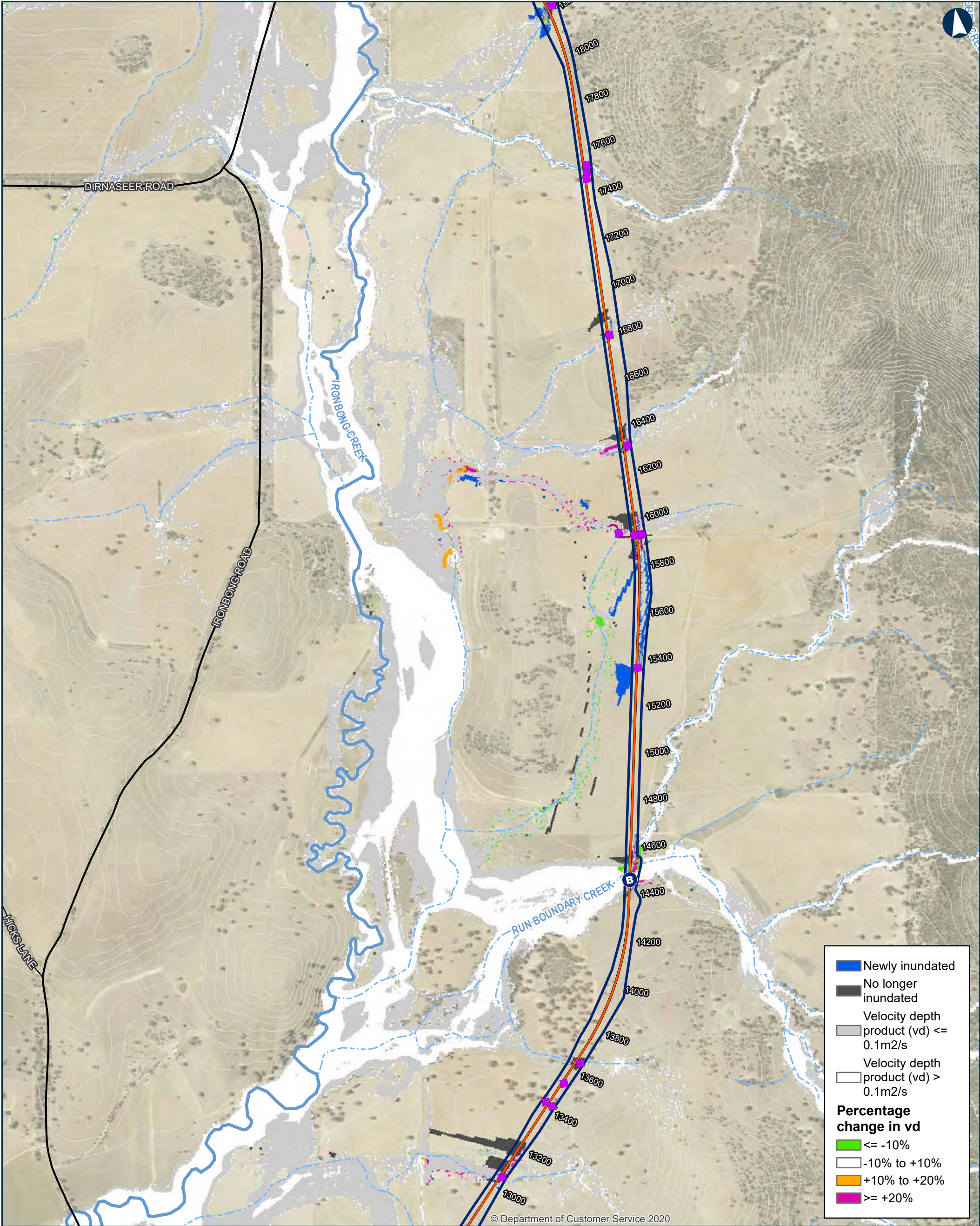
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



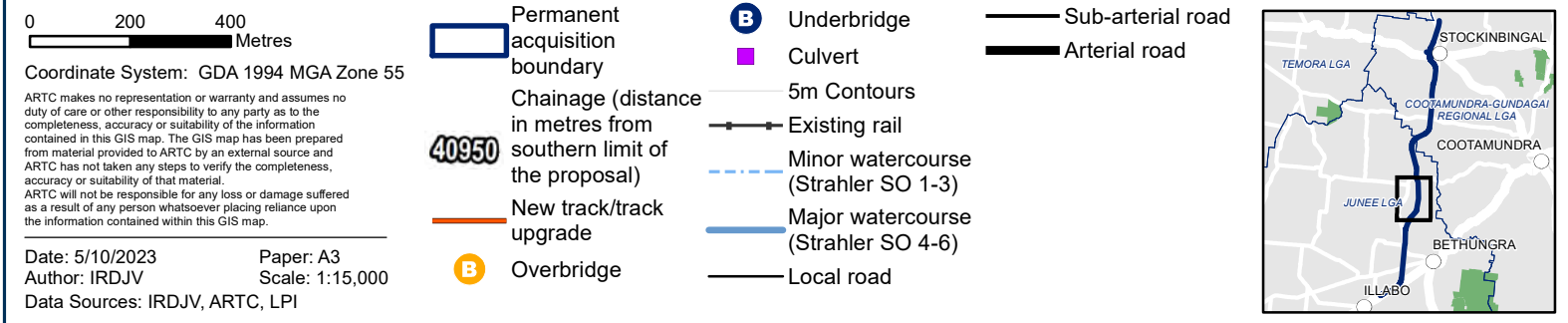
INLAND RAIL ARTC

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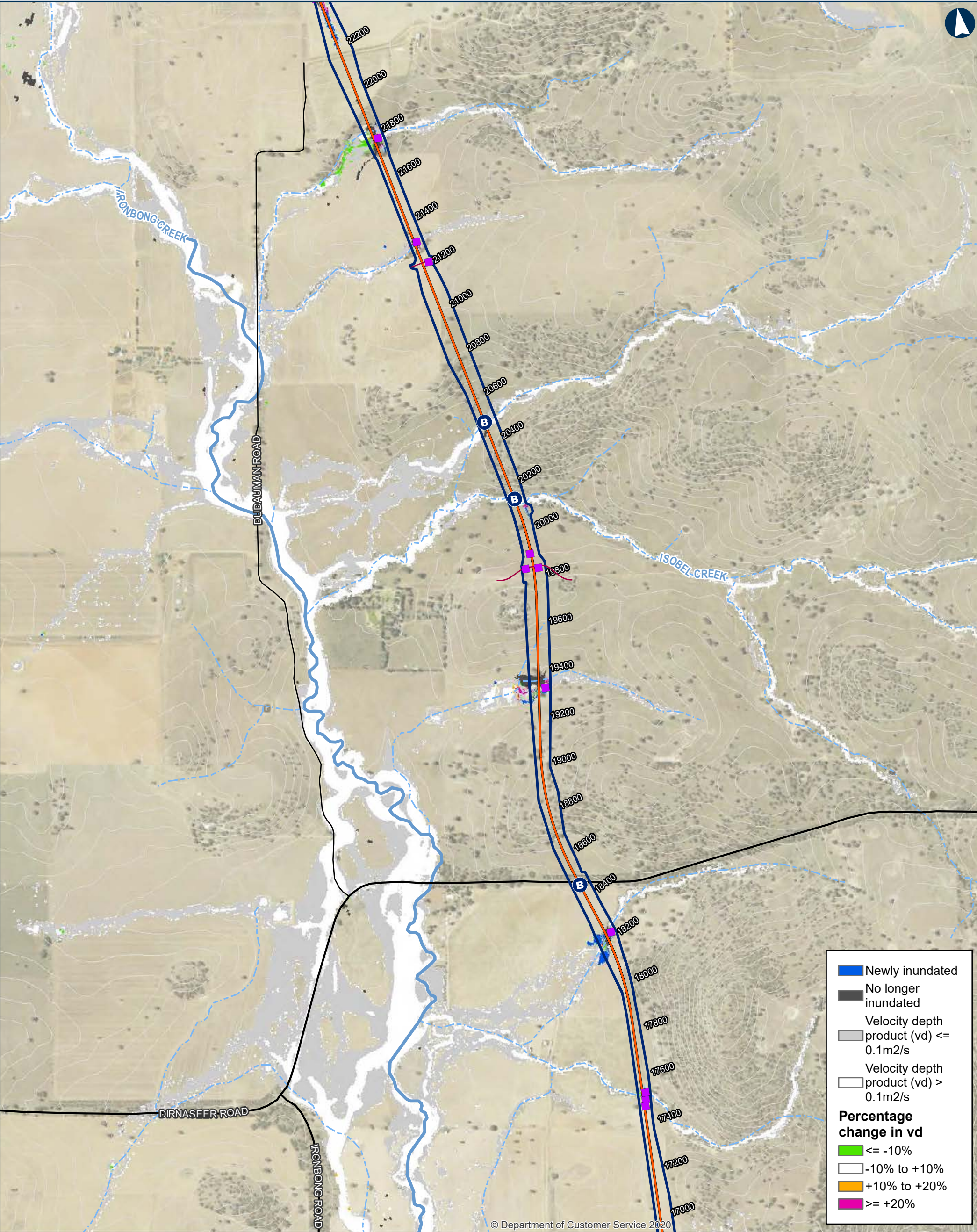
ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 4 of 9



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 5 of 9

0 200 400 Metres

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Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing rail

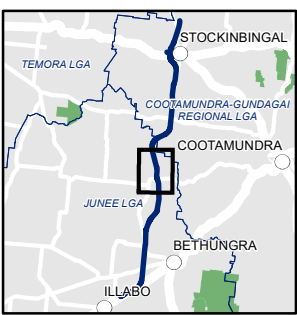
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

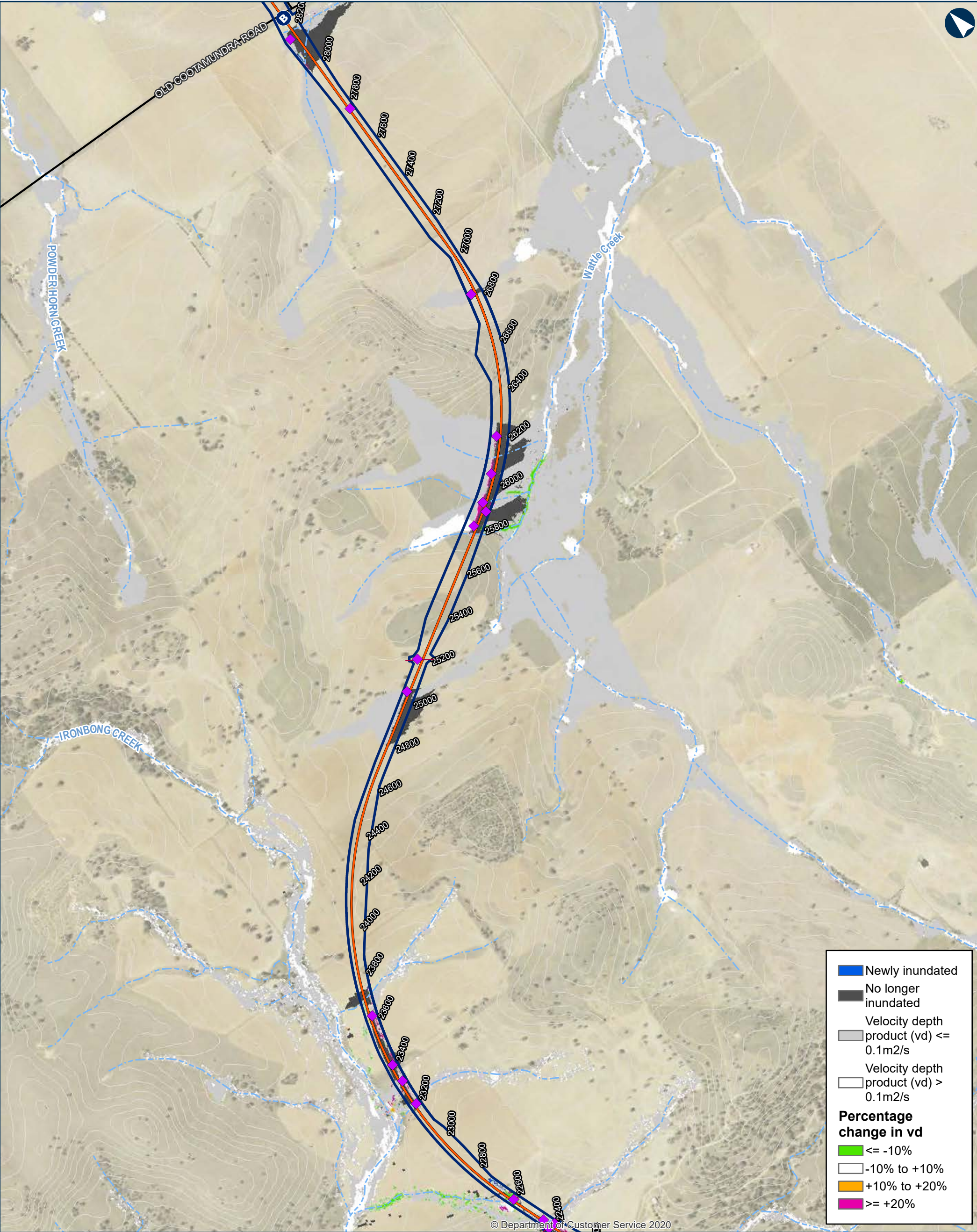
Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

0200400Metres

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Scale: 1:15,000

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

40950

New track/track upgrade

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

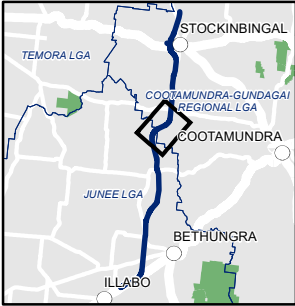
Local road

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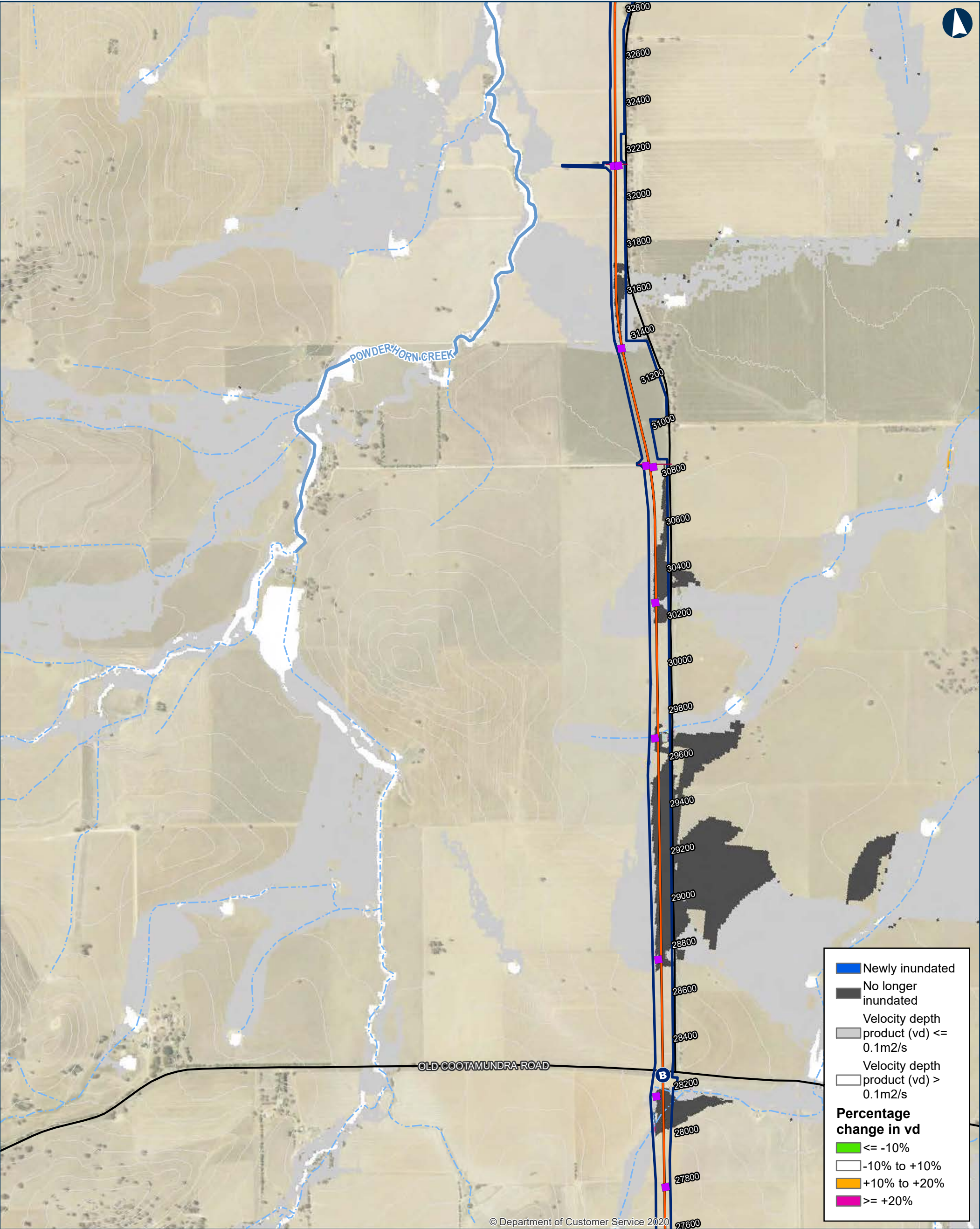
Sub-arterial road

—

Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 7 of 9

0 200 400 Metres

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40950

Permanent acquisition boundary

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

B Underbridge

Culvert

5m Contours

Existing rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

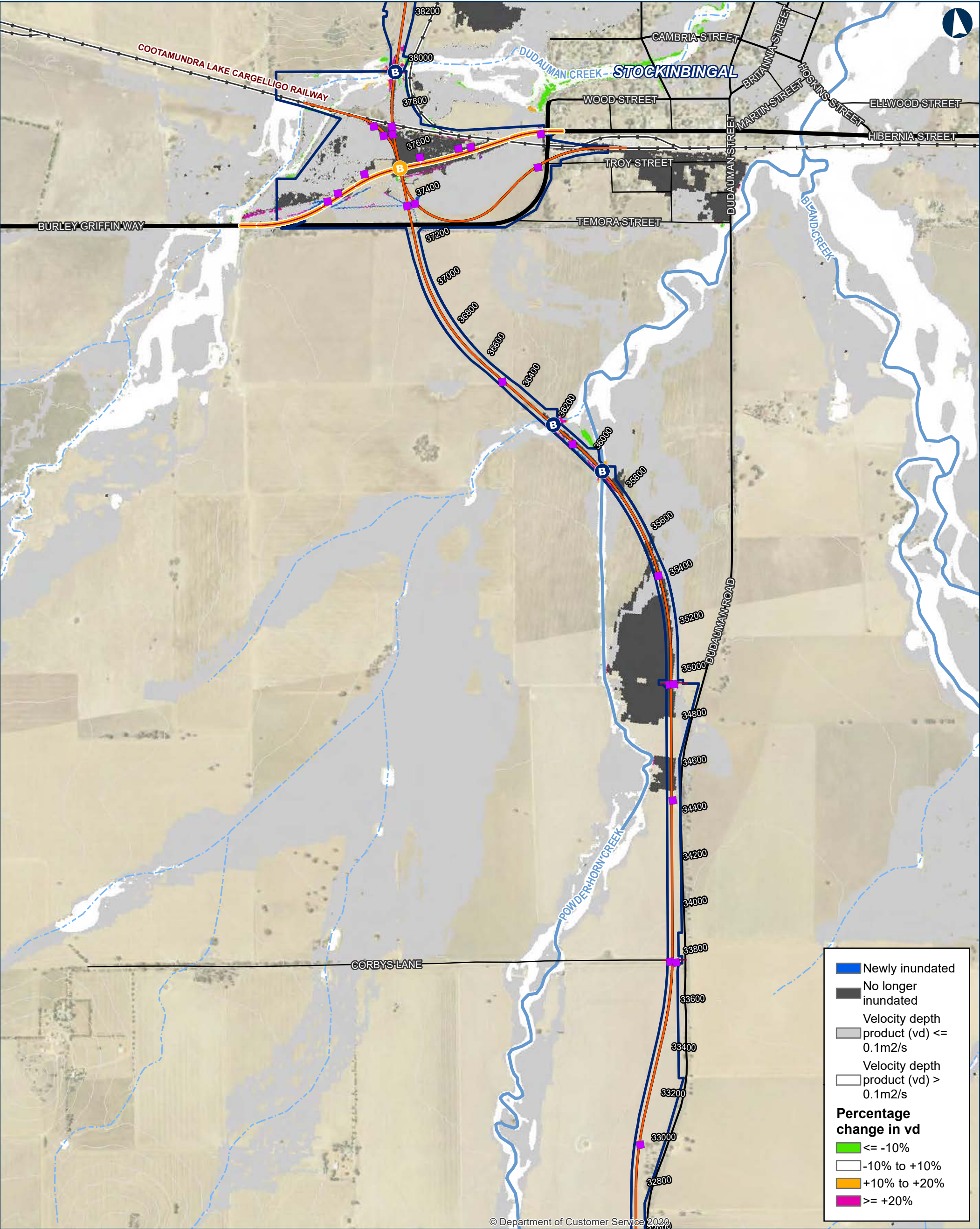
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Change in Hazard

Map 8 of 9

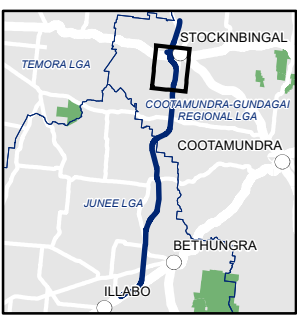
0 200 400 Metres

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- Chainage (distance in metres from southern limit of the proposal)
- 40950
- New track/track upgrade
- Burley Griffin Way realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing rail
- Minor watercourse (Strahler SO 1-3)
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- Local road
- Sub-arterial road
- Arterial road



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