TECHNICAL PAPER

04

Hydrology and Flooding Impact Assessment

Appendix D Flood maps—design conditions

Appendix D5 Blockage sensitivity

ILLABO TO STOCKINBINGAL ENVIRONMENTAL IMPACT STATEMENT

OLD SYDNEY ROAD

OLYMPIC HIGHWAY

BILLABONG CREEK

MAIN SOUTHERN RAILWAY

WALBRIDGE LANE

WARRENS LANE

5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0

B

Newly Flooded
No longer inundated

Afflux (m)

<= -0.2 decrease
-0.2 - -0.01 decrease
-0.01 - 0.01 increase
0.01 - 0.05 increase
0.05 - 0.1 increase
0.1 - 0.3 increase
> 0.3 increase

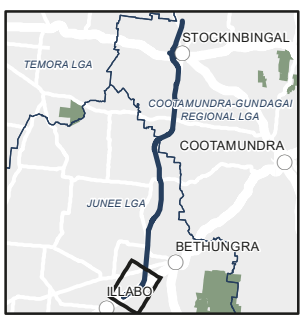
ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal) (e.g. 40950)
- New track/track upgrade
- 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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ARTC

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

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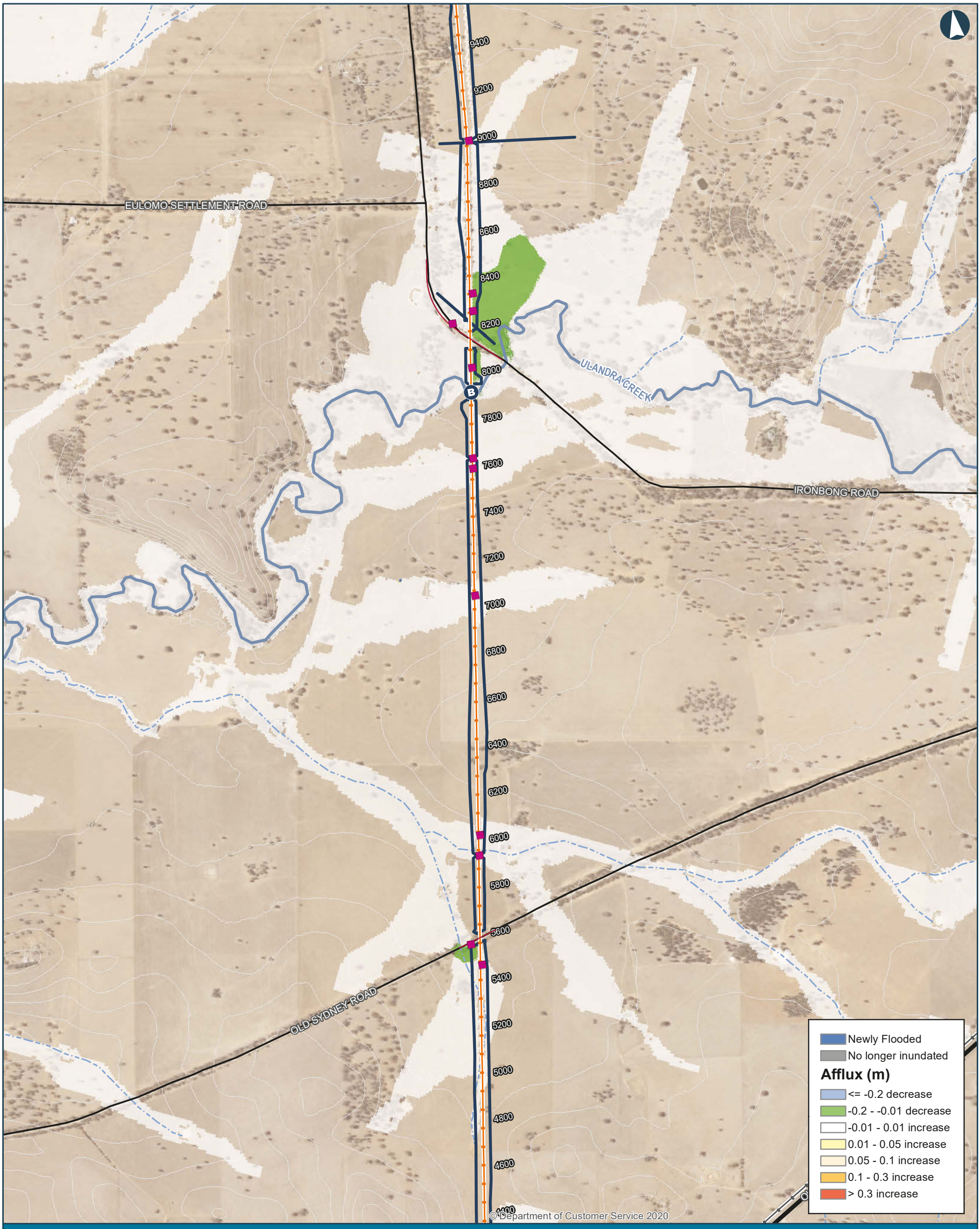

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 2 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

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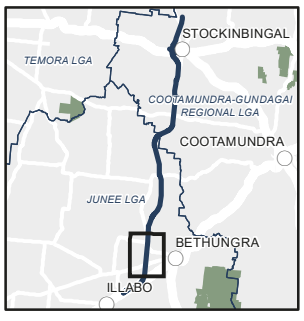
- Local road
- Sub-arterial road
- Arterial road



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IRONBONG CREEK
IRONBONG ROAD
RUN BOUNDARY CREEK
EULOMO SETTLEMENT ROAD
13600
13400
13200
13000
12800
12600
12400
12200
12000
11800
11600
11400
11200
11000
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
Newly Flooded
No longer inundated
Afflux (m)
<= -0.2 decrease
-0.2 - -0.01 decrease
-0.01 - 0.01 increase
0.01 - 0.05 increase
0.05 - 0.1 increase
0.1 - 0.3 increase
> 0.3 increase

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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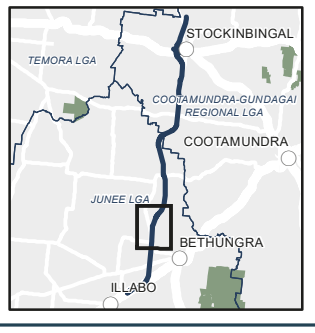

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DIRNASEER ROAD
IRONBONG CREEK
IRONBONG ROAD
HICKS LANE
RUN BOUNDARY CREEK
18000
17800
17600
17400
17200
17000
16800
16600
16400
16200
16000
15800
15600
15400
15200
15000
14800
14600
14400
14200
14000
13800
13600
13400
13200
13000

Newly Flooded
No longer inundated

Afflux (m)

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- -0.2 - -0.01 decrease
- -0.01 - 0.01 increase
- 0.01 - 0.05 increase
- 0.05 - 0.1 increase
- 0.1 - 0.3 increase
- > 0.3 increase

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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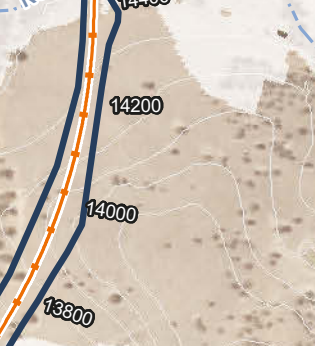

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IRONBONG CREEK
BUBAUMAN ROAD
ISOBEL CREEK
DIRNASEER ROAD
IRONBONG ROAD
22200
22000
21800
21600
21400
21200
21000
20800
20600
20400
20200
20000
19800
19600
19400
19200
19000
18800
18600
18400
18200
18000
17800
17600
17400
17200
17000
B
© Department of Customer Service 2020

Newly Flooded
No longer inundated

Afflux (m)

- <= -0.2 decrease
- -0.2 - -0.01 decrease
- -0.01 - 0.01 increase
- 0.01 - 0.05 increase
- 0.05 - 0.1 increase
- 0.1 - 0.3 increase
- > 0.3 increase

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

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- Major watercourse (Strahler SO 4-6)
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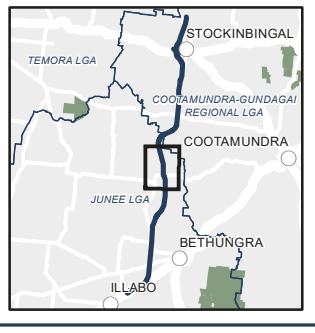
- Sub-arterial road
- Arterial road



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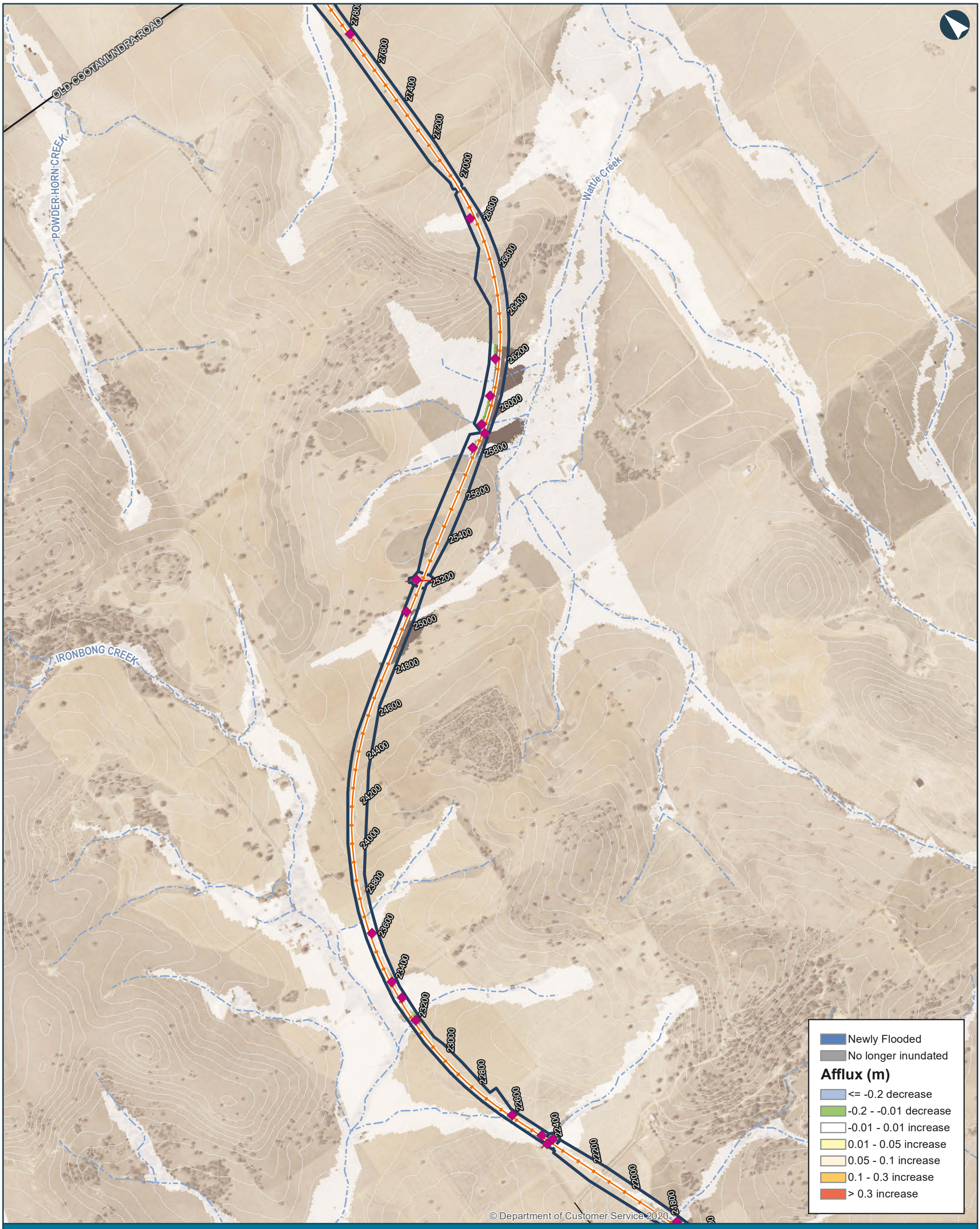

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- 40950 Chainage (distance n metres from southern limit of the proposal)
- New track/track upgrade
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- Underbridge
- Culvert
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- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
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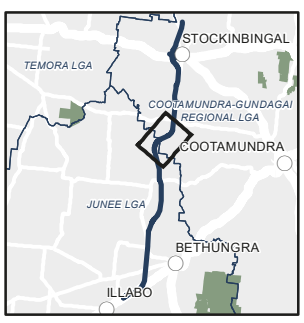
- Arterial road



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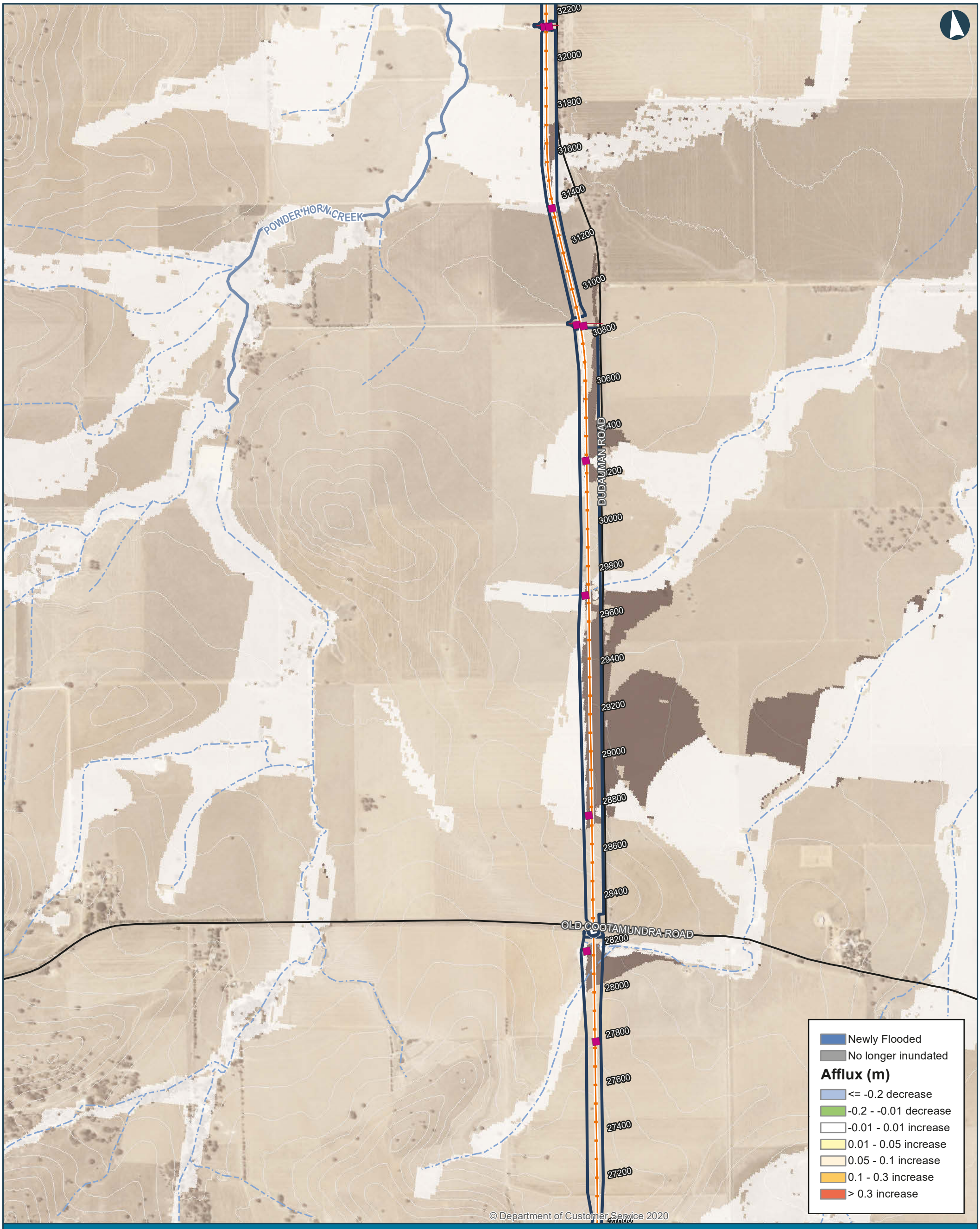

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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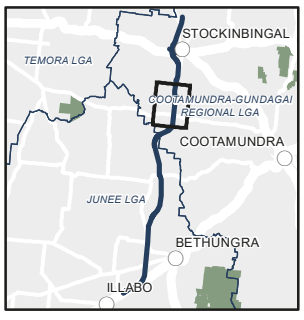
- Arterial road



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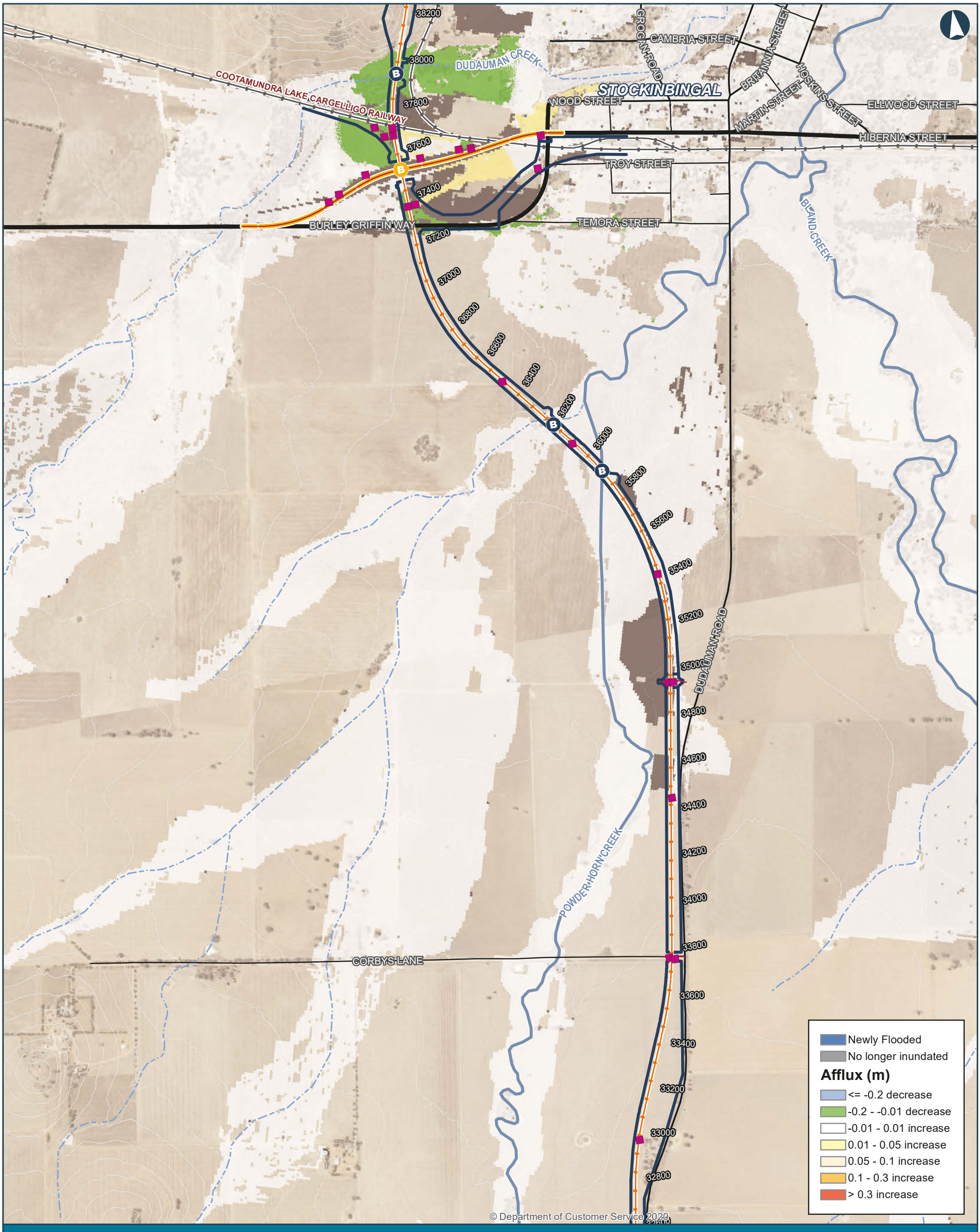


ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

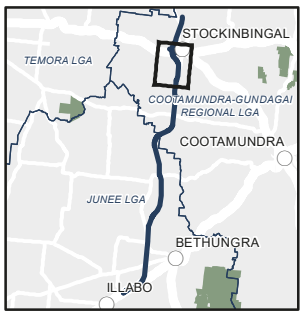
Map 8 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- 40950 Chainage (distance n 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



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MILVALE LANE
CROGAN ROAD
BOYDS LANE
MCLAUGHLINS LANE
42400
42200
42000
41800
41600
41400
41200
41000
40800
40600
40400
40200
40000
39800
39600
39400
39200
39000
38800
38600
38400
38200
38000
37800
37600
STOCKINBINGAL PARKES RAILWAY
COOTAMUNDRA LAKE CARGELLIGO RAILWAY
DUDAUMAN CREEK
FREEMANS LANE
OLD WALLENDBEEN ROAD
BLAND CREEK
RACECOURSE LANE
O'BRIEN STREET
CAMBRIA STREET
DUDAUMAN STREET
BRITANNIA STREET
HOSKINS STREET
MARTIN STREET
STOCKINBINGAL
WOOD STREET
POWDER HORN CREEK
B
© Department of Customer Service 2020

Newly Flooded
No longer inundated

Afflux (m)

- <= -0.2 decrease
- -0.2 - -0.01 decrease
- -0.01 - 0.01 increase
- 0.01 - 0.05 increase
- 0.05 - 0.1 increase
- 0.1 - 0.3 increase
- > 0.3 increase

ILLABO TO STOCKINBINGAL Change in Peak Water level for no culvert blockage

Map 9 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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- Arterial road

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OLD SYDNEY ROAD
OLYMPIC HIGHWAY
BILLABONG CREEK
MAIN SOUTHERN RAILWAY
WALBRIDGE LANE
WARRENS LANE
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
B
B

Newly Flooded
No longer inundated

Afflux (m)

<= -0.2 decrease
-0.2 - -0.01 decrease
-0.01 - 0.01 increase
0.01 - 0.05 increase
0.05 - 0.1 increase
0.1 - 0.3 increase
> 0.3 increase

ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
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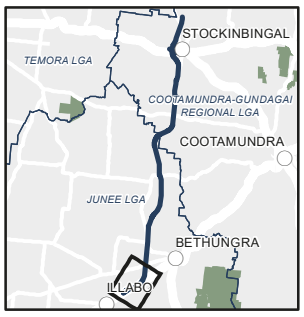

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EULOMO SETTLEMENT ROAD

ULANDRA CREEK

IRONBONG ROAD

OLD SYDNEY ROAD

9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

B

Newly Flooded
No longer inundated

Afflux (m)

<= -0.2 decrease
-0.2 - -0.01 decrease
-0.01 - 0.01 increase
0.01 - 0.05 increase
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ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

0 200 400 Metres

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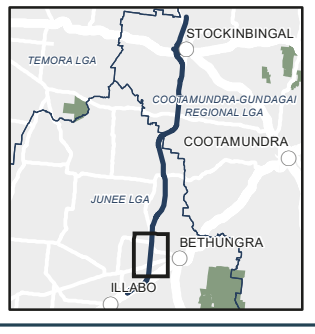

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IRONBONG CREEK

IRONBONG ROAD

EULOMO SETTLEMENT ROAD

RUN BOUNDARY CREEK

13600
13400
13200
13000
12800
12600
12400
12200
12000
11800
11600
11400
11200
11000
10800
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400

Newly Flooded
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ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

0 200 400 Metres

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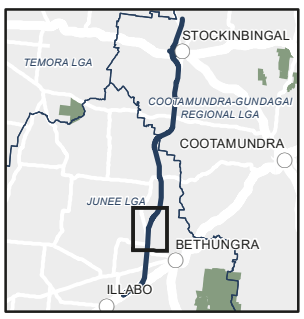

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DIRNASEER ROAD
IRONBONG CREEK
IRONBONG ROAD
HICKS LANE
RUN BOUNDARY CREEK
18000
17800
17600
17400
17200
17000
16800
16600
16400
16200
16000
15800
15600
15400
15200
15000
14800
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ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

0 200 400 Metres

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IRONBONG CREEK
BUBAUMAN ROAD
ISOBEL CREEK
DIRNASEER ROAD
IRONBONG ROAD
22200
22000
21800
21600
21400
21200
21000
20800
20600
20400
20200
20000
19800
19600
19400
19200
19000
18800
18600
18400
18200
18000
17800
17600
17400
17200
17000
B
Newly Flooded
No longer inundated
Afflux (m)
<= -0.2 decrease
-0.2 - -0.01 decrease
-0.01 - 0.01 increase
0.01 - 0.05 increase
0.05 - 0.1 increase
0.1 - 0.3 increase
> 0.3 increase

ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

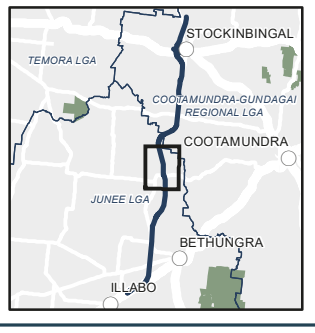
Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal) (e.g. 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.

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ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

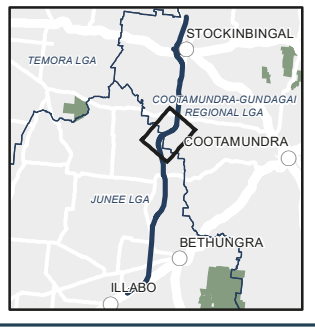
Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- 40950 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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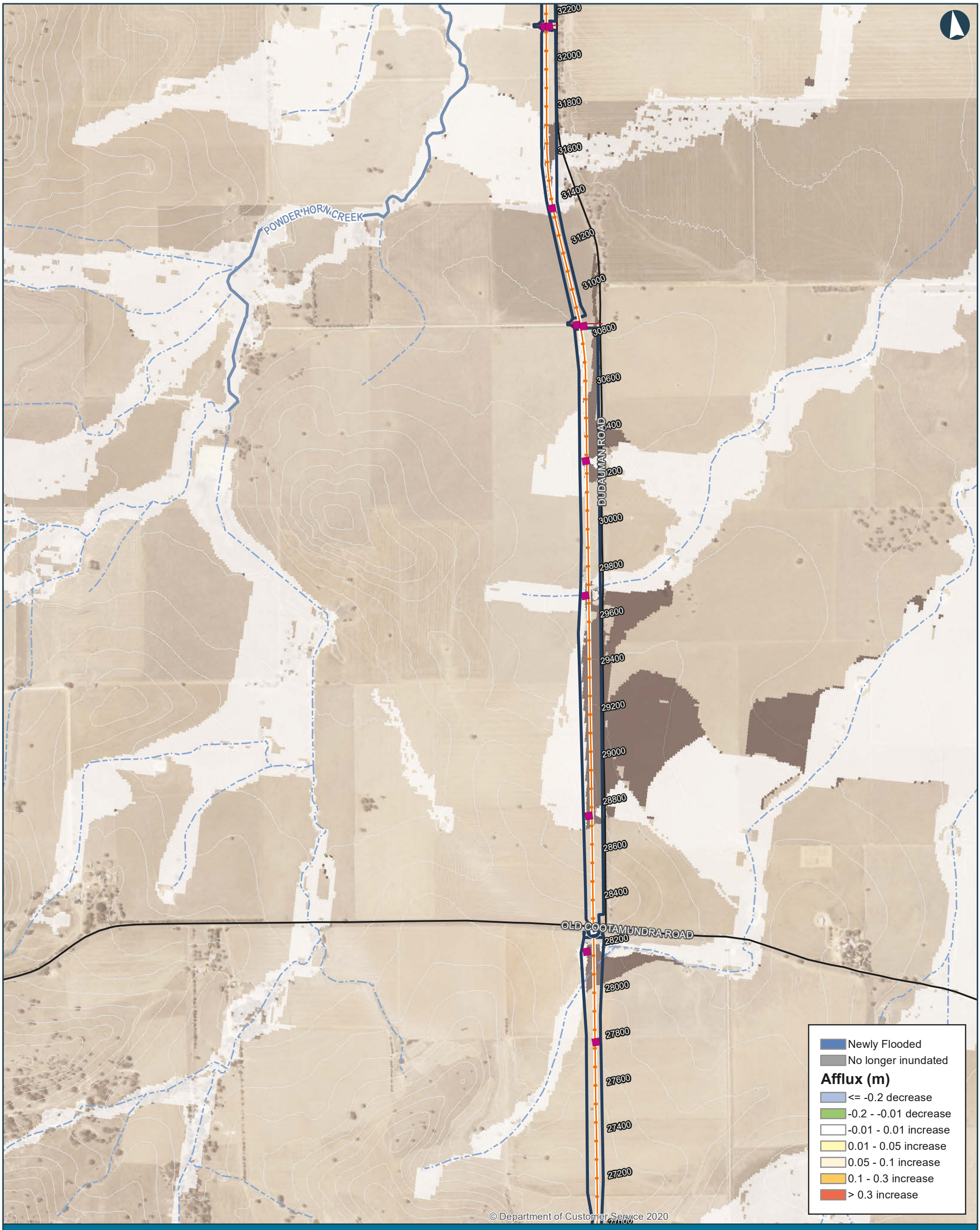


ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

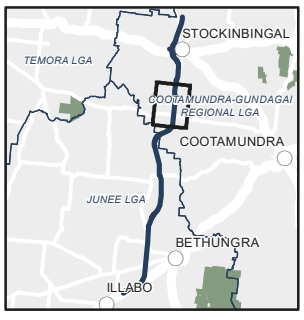
Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- 40950 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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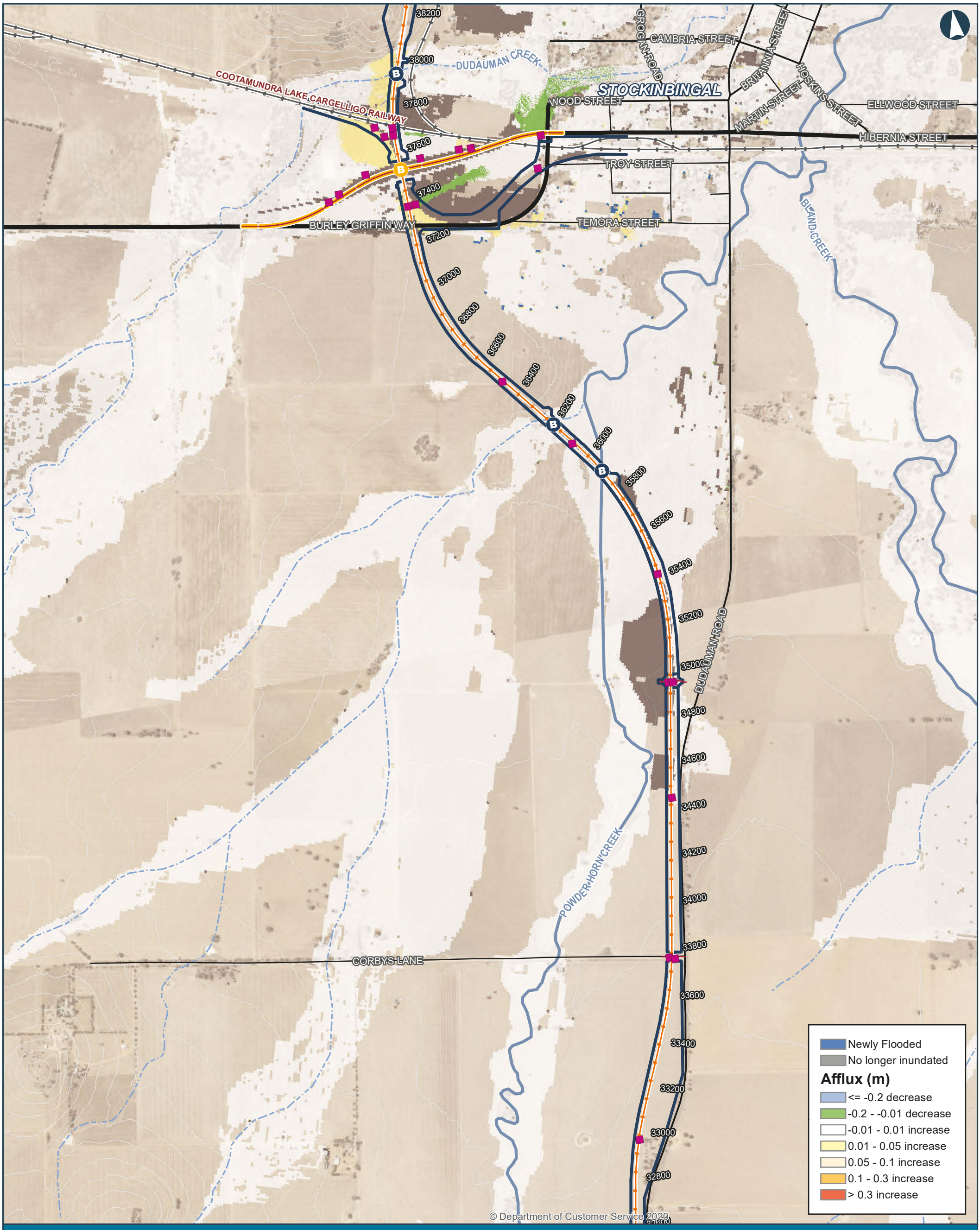


ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

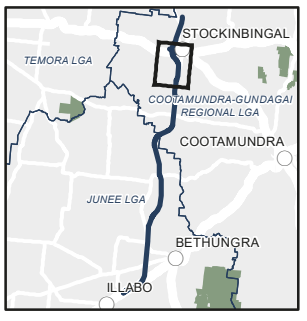
Map 8 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- 40950 Chainage (distance n 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



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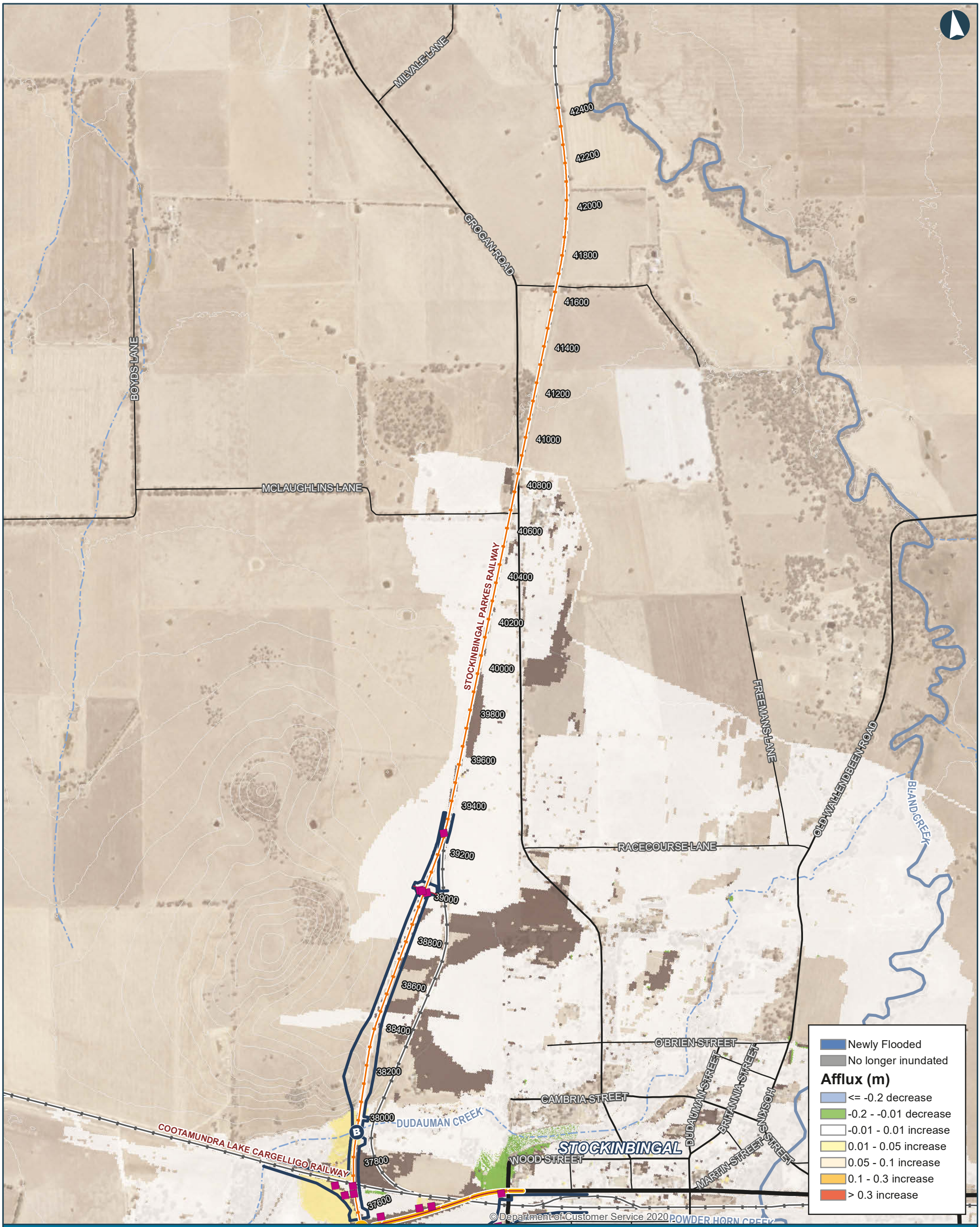

ILLABO TO STOCKINBINGAL Change in Peak Water level for 25% culvert blockage

Map 9 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- 40950 Chainage (distance n metres from southern limit of the proposal)
- New track/track upgrade
- Burley Griffin Way Realignment
- B Overbridge
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- Minor watercourse (Strahler SO 1-3)
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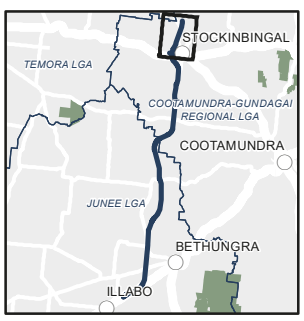

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