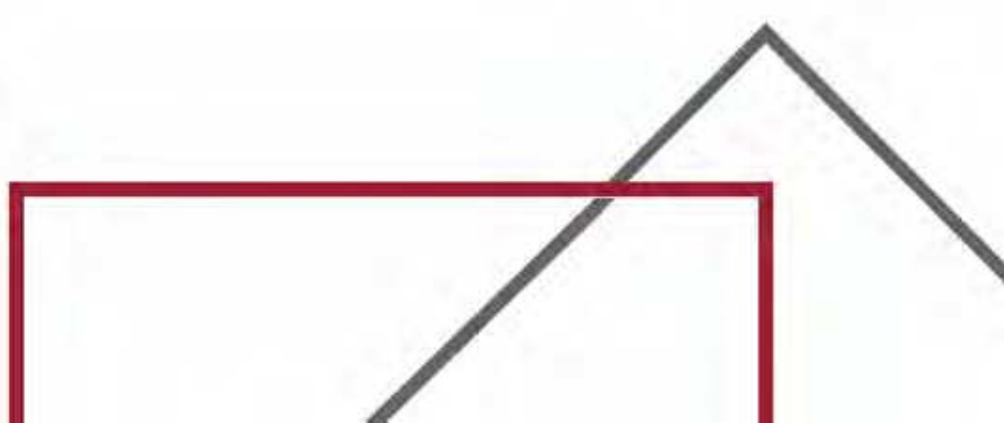




Eden, Twofold Bay, Towamba River Flood Study

Volume 2 - Maps



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Australia

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Document Control

Rev	Effective Date	Description of Revision	Prepared by:	Reviewed by:
Stage 1 Report				
0	16 January 2017	Template for Baird	Emma Maratea	NA
1	2 February 2017	Internal Draft for Review	Emma Maratea Luke Evans Sean Garber Holly Watson	Rhys Thomson
2	6 February 2018	Issue to Council	Luke Evans	Emma Maratea
Stage 2 Report				
0	16 August 2018	Internal Version	Emma Maratea	NA
1	10 September 2018	Issue to Council	Emma Maratea Luke Evans Sean Garber Holly Watson	Rhys Thomson
Stage 3 Report				
0	2 July 2019	Issue to Council	Emma Maratea Luke Evans Sean Garber	Rhys Thomson
Stage 4 Report				
0	25 October 2019	For Public Exhibition	Luke Evans	Emma Maratea
Stage 5 Report				
0	March 2020	Final Flood Study for Council Adoption	Luke Evans Emma Maratea	Rhys Thomson

Prepared For: Bega Valley Shire Council

Project Name: Eden, Twofold Bay, Towamba River Flood Study

Rhelm Reference: J1053_R05_Rev0_Vol-2

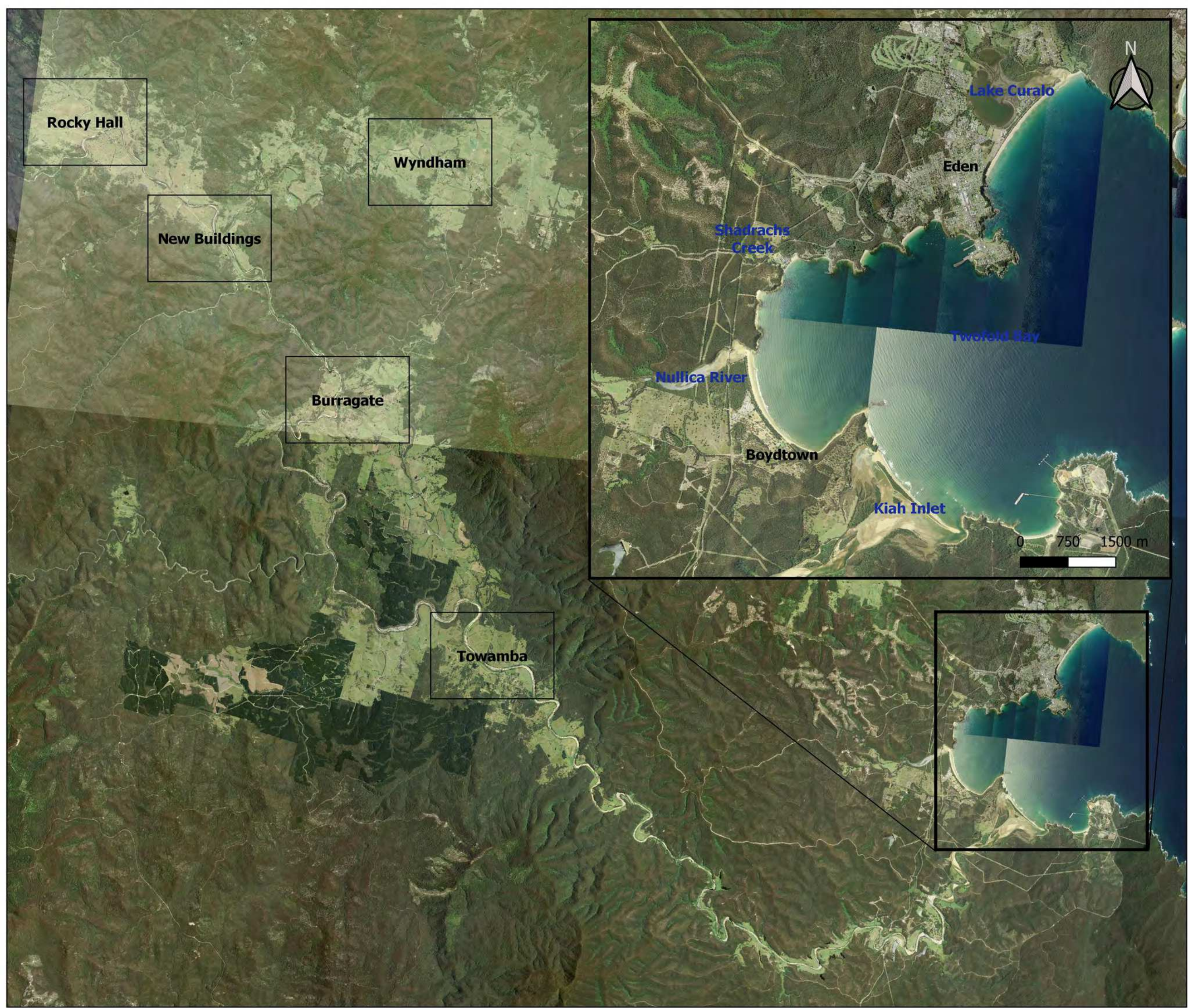
Document Location: C:\Dropbox (Rhelm)\Jobs\J1053 - Eden Flood Study\4. Reports\Stage 5 Report\J1053_R05_Stage_5_Rev0_Vol-2.docx

Client Reference: Exhibition Flood Study

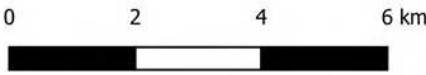
The report has been prepared and reviewed by suitably qualified persons. The scope of the report is based on the client brief and/or the Rhelm written fee proposal and assumes information provided by the client and sourced from other third parties is fit for purpose unless otherwise stated. The findings rely on a range of assumptions that are noted in the report.

Volume 2 - Maps

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		Map Series G602-2	1% AEP Velocity
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**G101
Study Area**



Scale : 1:120000
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G301
Availability of 1m
LiDAR / DEM

-  Eden Catchment
-  Quarantine Bay Catchment
-  LiDAR / DEM



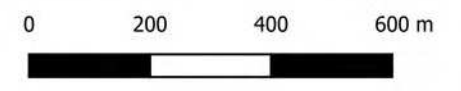
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Date : 18 June 2019
Revision : A
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G302
Eden Additional Survey

- Cross Sections
- Breakline
- Structures



Scale : 1:12500 @A3
Date : 18 June 2019
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G303
Data Sources of
Structures

- Structures Data Source
- Council
 - RMS
 - Site Inpsection
 - Survey



0 200 400 600 800 m

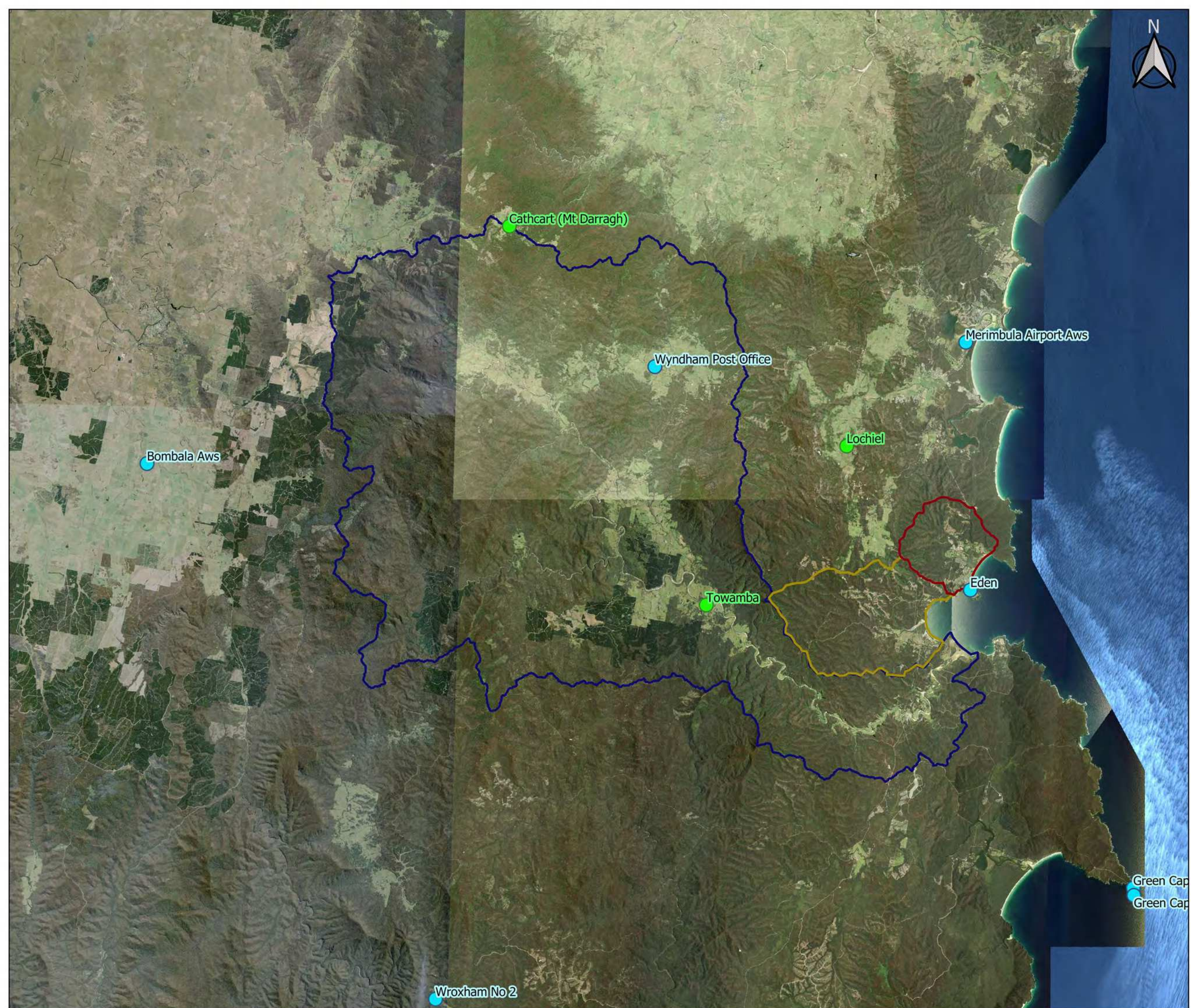
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Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

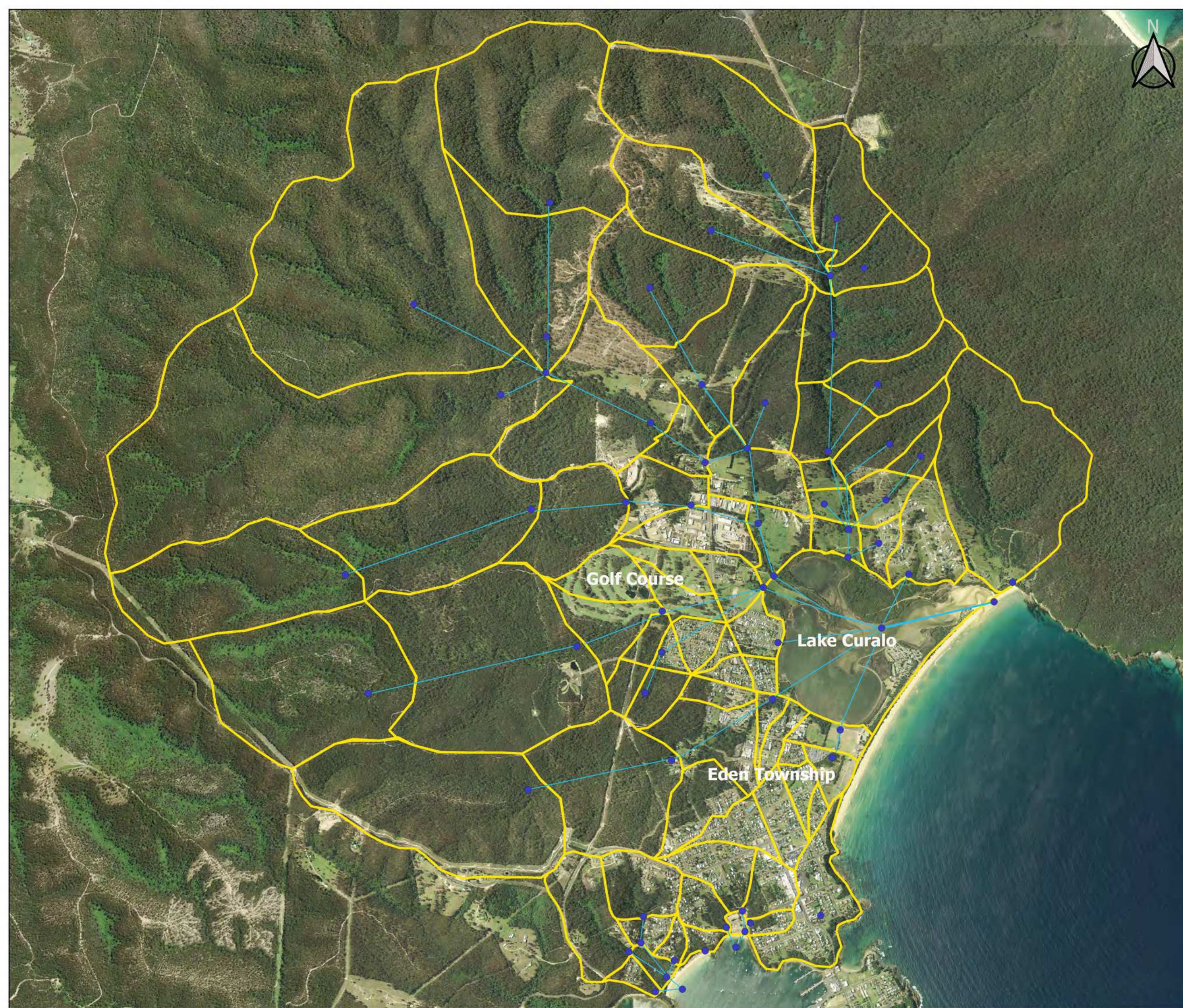
G304
Rainfall Gauges

- Daily Rainfall Stations
- Pluvio Data Gauges
- ▭ Eden Catchment
- ▭ Quarantine Bay Catchment
- ▭ Towamba Catchment

0 2 4 6 8 10 12 km

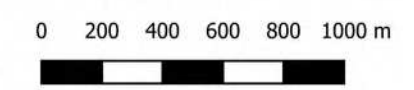
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Date : 18 June 2019
Revision : A
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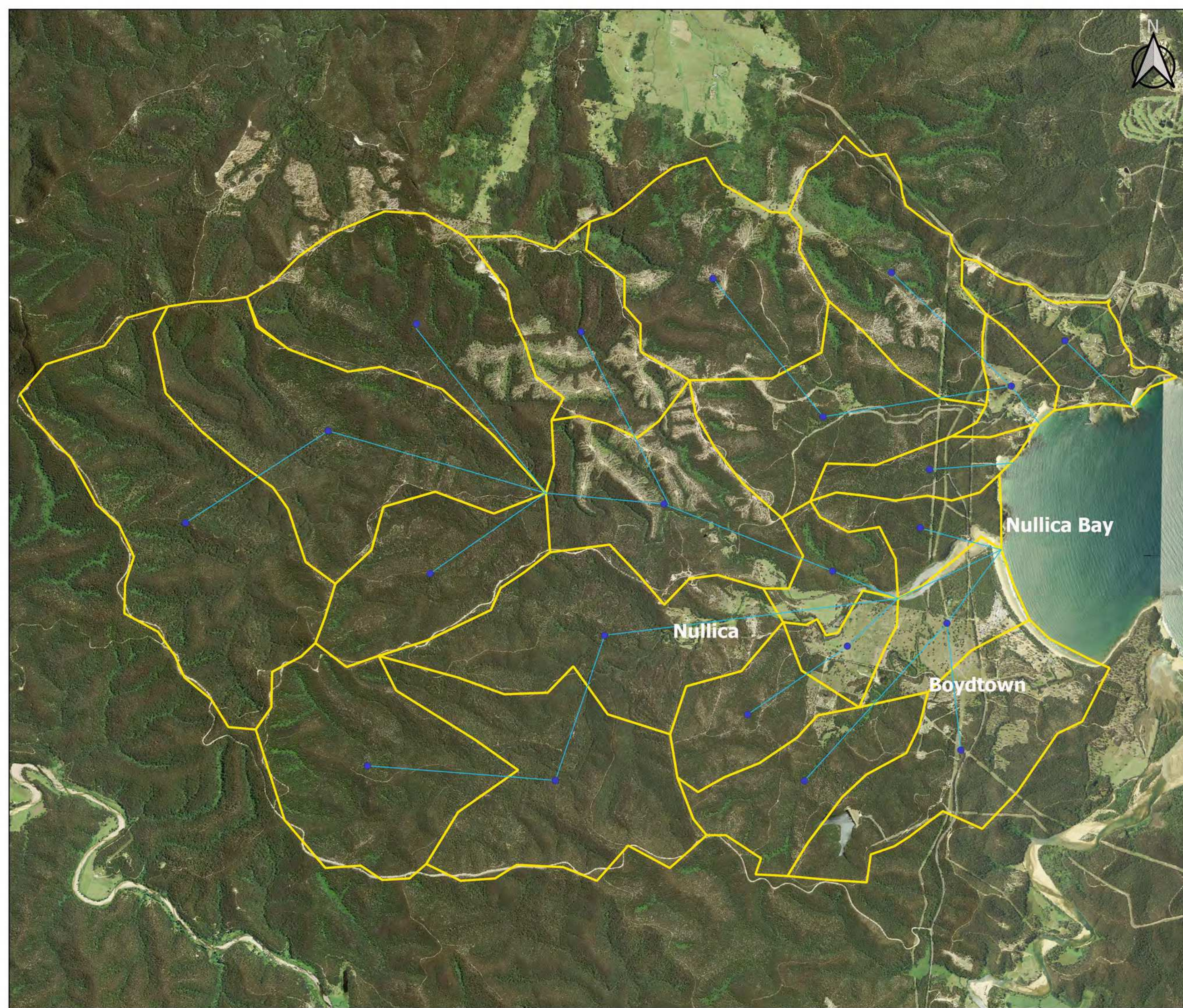
G501
Eden Subcatchments

-  Eden Subcatchments
-  RAFTS Nodes
-  RAFTS Links



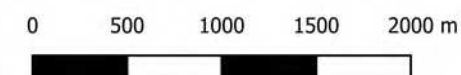
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Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





**G502
Quarantine Bay
Subcatchments**

-  Subcatchments
-  RAFTS Nodes
-  RAFTS Links

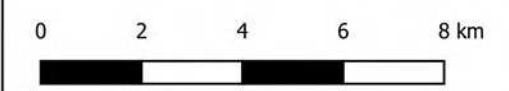


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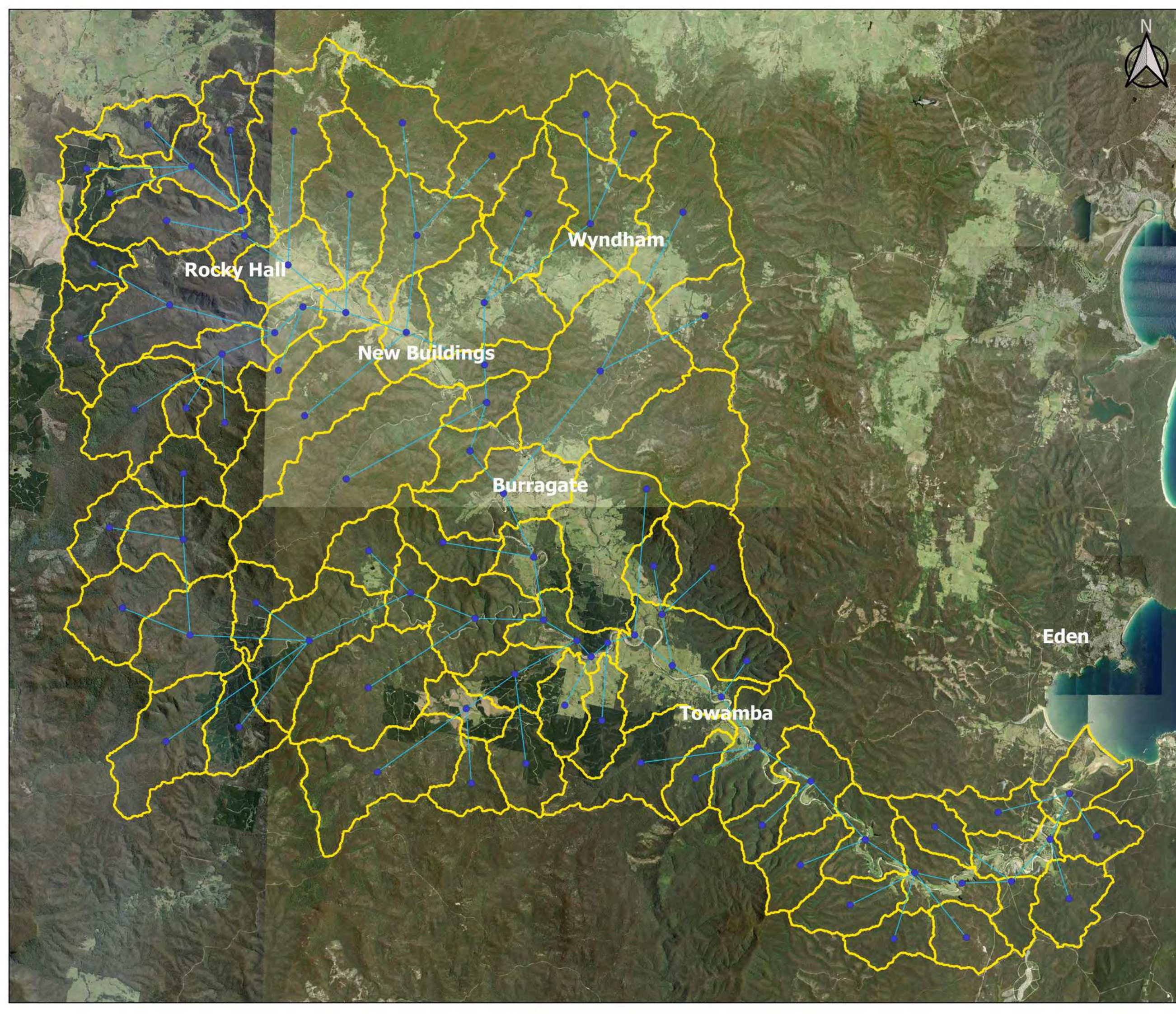
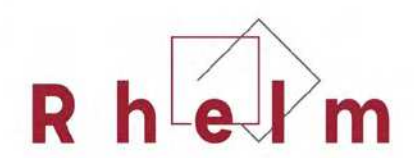


G503
Towamba River Subcatchments

-  Subcatchments
-  RAFTS Nodes
-  RAFTS Links



Scale : 1:150000 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





G504
Wyndham Model Features

- Model Area
- Upstream Boundary
- Downstream Boundary
- Bridge / Crossing
- Cross Sections



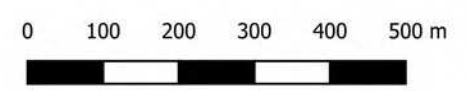
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Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





G505 Rocky Hall Model Features

- Eden201303-Combined-Lidar
- Model Area
 - Upstream Boundary
 - Downstream Boundary
 - Bridge / Crossing
 - Cross Sections



Scale 1:10000 @ A3
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Towamba River

Back Creek

Big Jack Mountain Road

Cow Bali Creek

Crossing

G506
New Buildings Model Features

- Model Area
- Upstream Boundary
- Downstream Boundary
- Bridge / Crossing
- Cross Sections



Scale 1:7500 @ A3
Date : 18 June 2019
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Coordinate System : MGA94 Zone 55



G507 Burragate Model Features

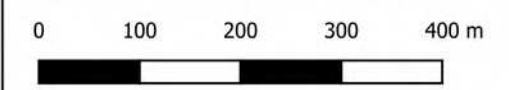
- Model Area
- Upstream Boundary
- Downstream Boundary
- Bridge / Crossing

Big Jack Mountain Road

Wyndham Street

Pericoe Street

Towamba River



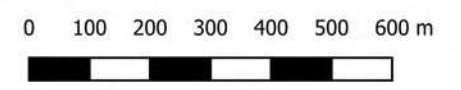
Scale 1:7500 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





G508
Towamba Model Features

-  Model Area
-  Upstream Boundary
-  Downstream Boundary
-  Bridge / Crossing



Scale 1:12500 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55



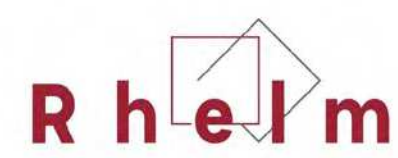


G509 Eden Model Features

- Upstream Bdy
- Downstream Boundary
(Interface to Delft3D Model)
- Distributed Local Flows
- Culverts
- Pipes
- Pits
- Buildings
- Bridges / Crossings



Scale 1:17000 @ A3
Date : 18 June 2019
Revision : A
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Coordinate System : MGA94 Zone 55





G510
Nullica / Boydtown
Model Features

-  20m Grid Resolution
-  5m Grid Resolution



0 200 400 600 800 m



Scale 1:15000 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

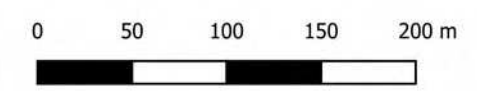
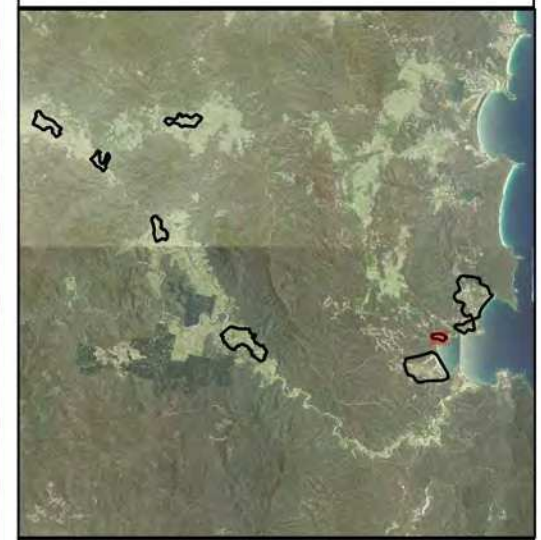




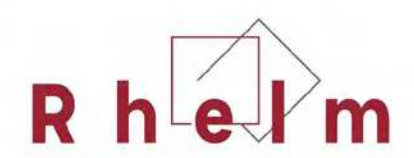
**G511
Shadrachs Creek
Model Extent**

 5m Grid Resolution

Princes Highway



Scale 1:4000 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





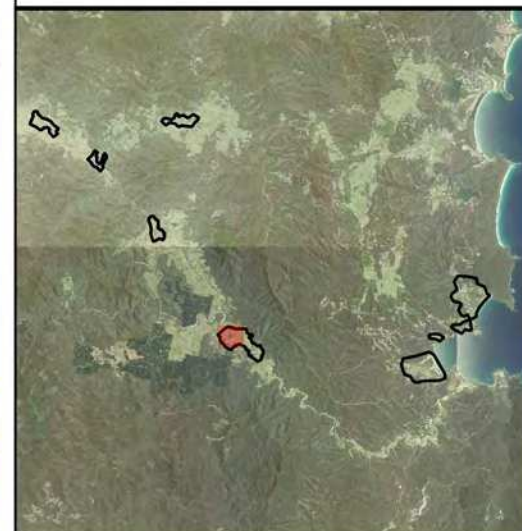
Community Flood Extent

Flood Survey

Flood Extent

Community observed flood reached approximately the 40 mAHD contour (extent indicated on map at community drop in workshop)

Survey: 38.64 mAHD
Model: 38.54 mAHD
Difference: -0.1m



0 50 100 150 200 250 m

Scale 1:4000 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

- Community Flood Extent
- Flood Survey
- Flood Extent



0 50 100 150 200 250 m

Scale 1:4000 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

Community observed flood reached approximately 40 from Pericoe Road.

Survey: 36.56 mAHD
Model: 36.39 mAHD
Difference: -0.13m

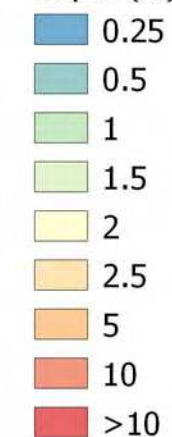
Eden - North



G514 20% AEP Flood Depths & Community Observations

● Community Observations

Depth (m)



Property access gets flooded
Bridge destroyed in 1978 flood

Bridge destroyed in 1978 flood

Dense vegetation cause erosion
and flooding issues

1978 Event destroyed bridge.
Upgraded crossing has not been overtopped.

Highway overtopped when
culvert blocked

Road floods at
low point

Local drainage issues

Eden - South

Old cannery used to flood
from catchment runoff

Lagoon can breakout
after heavy rain



Scale 1:125000 @ A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

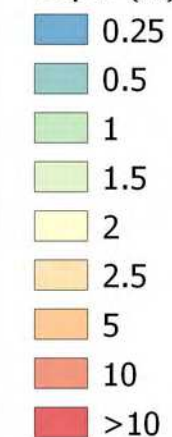
Eden - North



G515 1% AEP Flood Depths & Community Observations

● Community Observations

Depth (m)



Property access gets flooded
Bridge destroyed in 1978 flood

Bridge destroyed in 1978 flood

Dense vegetation cause erosion
and flooding issues

1978 Event destroyed bridge.
Upgraded crossing has not been overtopped.

Highway overtopped when
culvert blocked

Road floods at
low point

Local drainage issues

Eden - South

Old cannery used to flood
from catchment runoff

Lagoon can breakout
after heavy rain

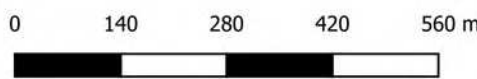
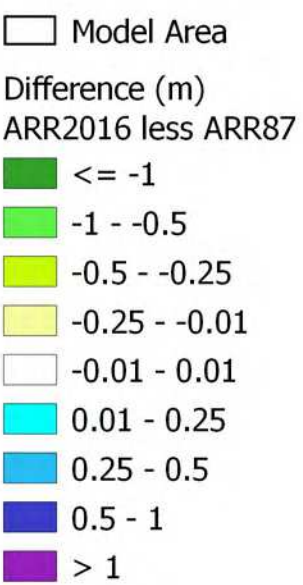


0 200 400 600 m

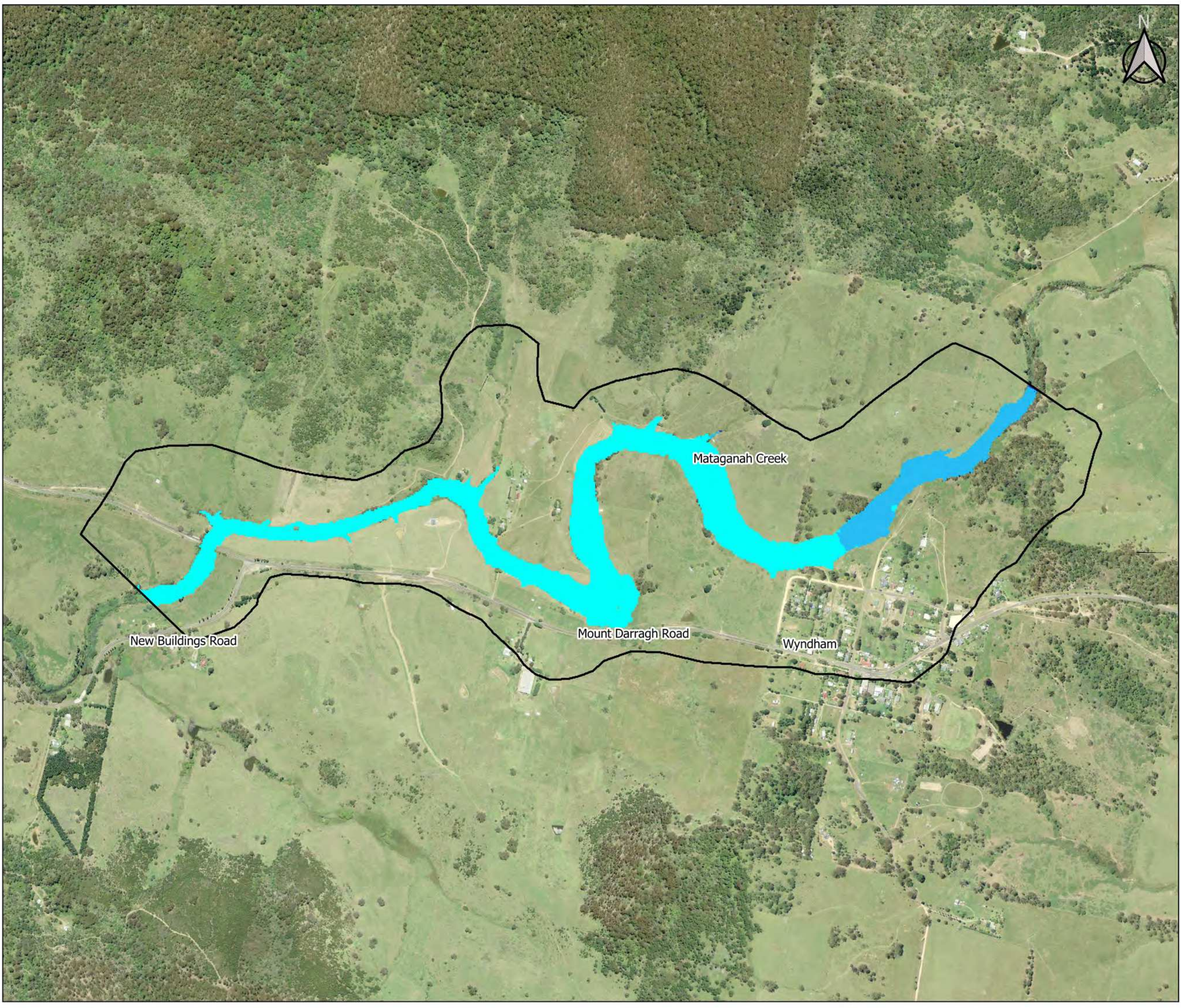
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Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

R h e l m

G516-a
Wyndham
ARR87 Differences



Scale : 1:10000 @A3
Date : 18 June 2019
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Towamba River



**G516-b
Rocky Hall
ARR87 Differences**

□ Model Area

Difference (m)
ARR2016 less ARR87

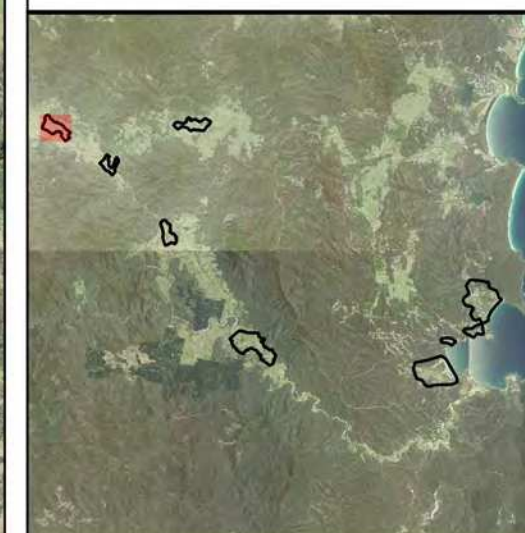
- ≤ -1
- $-1 - -0.5$
- $-0.5 - -0.25$
- $-0.25 - -0.01$
- $-0.01 - 0.01$
- $0.01 - 0.25$
- $0.25 - 0.5$
- $0.5 - 1$
- > 1

Black Log Creek

Big Jack Mountain Road

Crossing

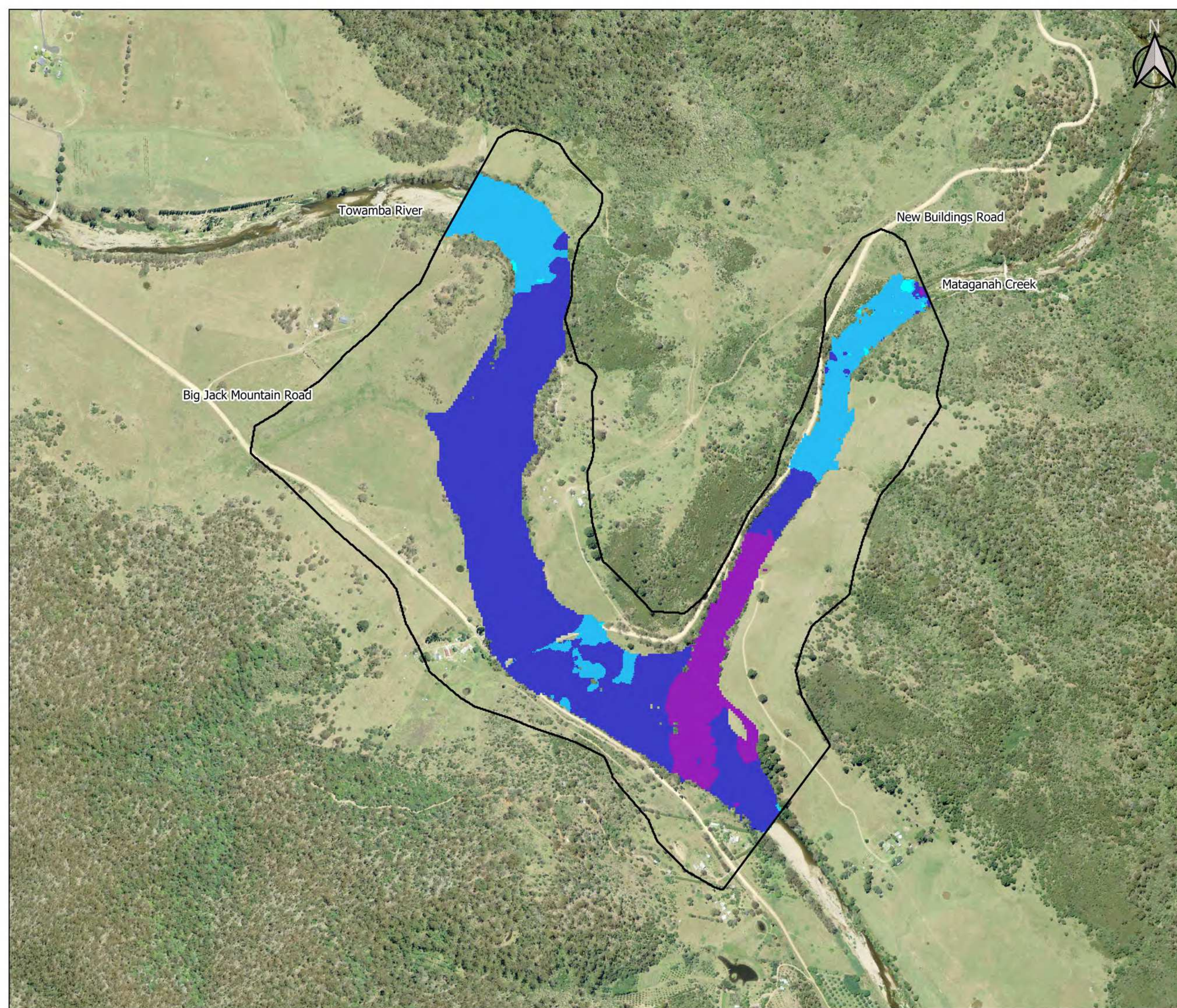
Cow Bali Creek



0 100 200 300 400 m

Scale : 1:7500 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

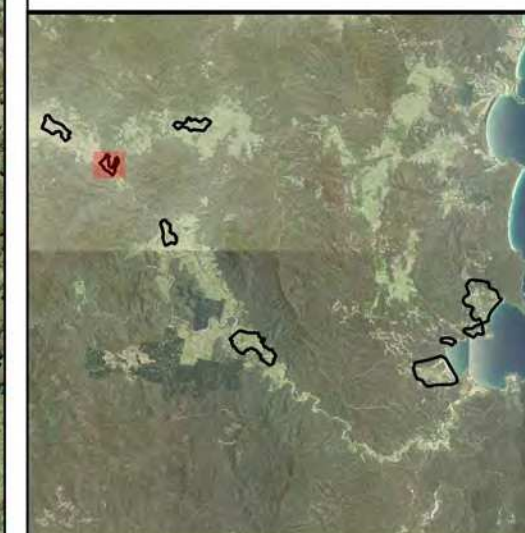
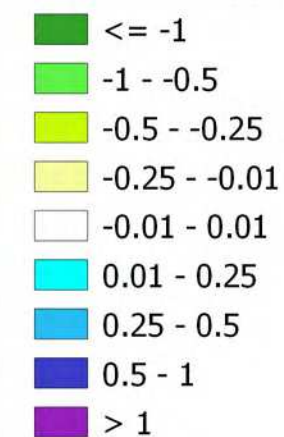
R h e l m



G516-c
New Buildings
ARR87 Differences

□ Model Area

Difference (m)
ARR2016 less ARR87

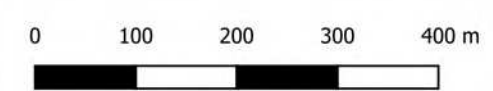


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Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

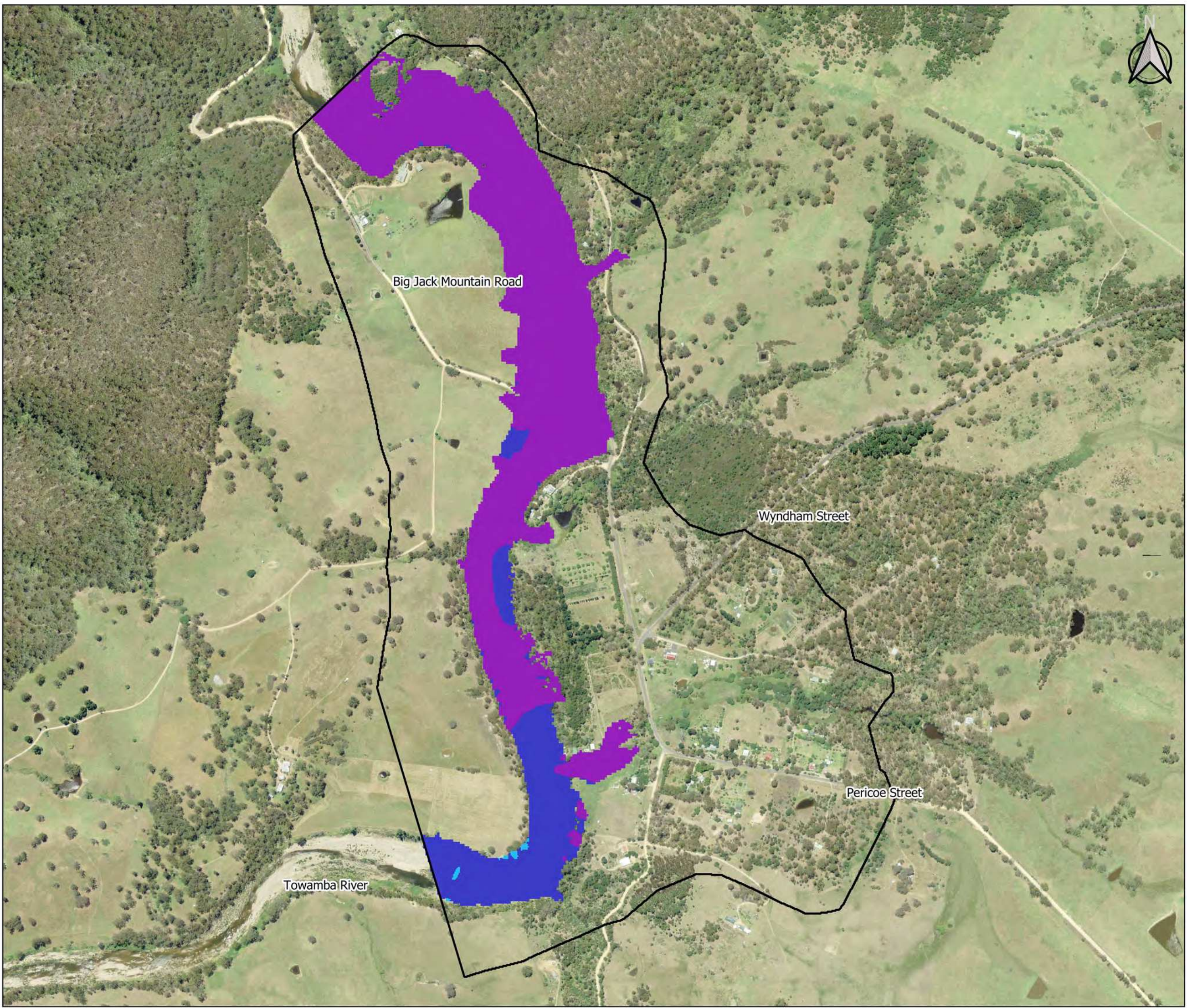


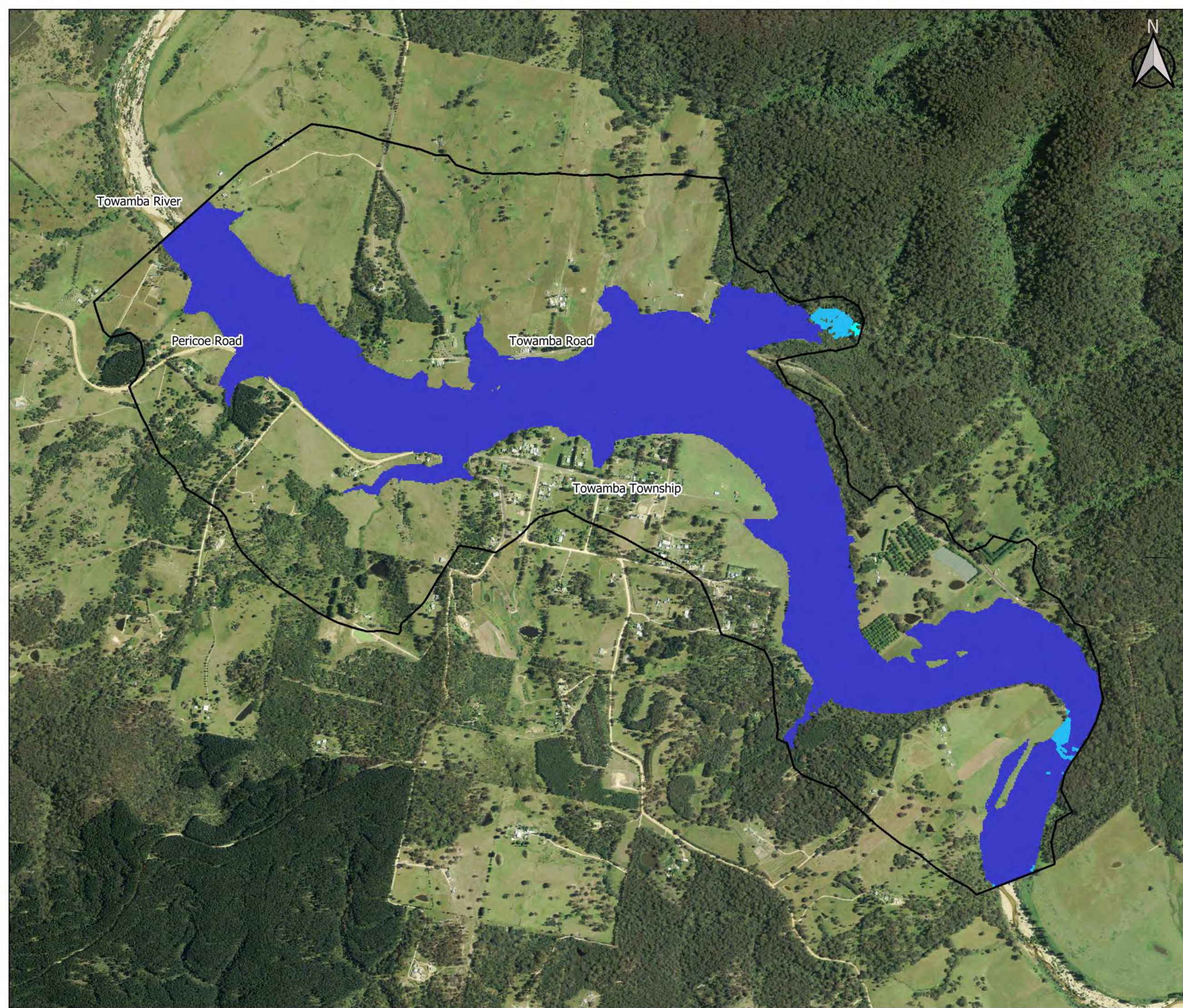
G516-d
Burragate
ARR87 Differences

- Model Area
- Difference (m)
ARR2016 less ARR87
- ≤ -1
 - 1 - -0.5
 - 0.5 - -0.25
 - 0.25 - -0.01
 - 0.01 - 0.01
 - 0.01 - 0.25
 - 0.25 - 0.5
 - 0.5 - 1
 - > 1



Scale : 1:7500 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55



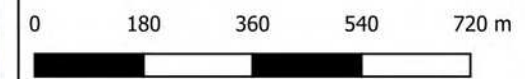


**G516-e
Towamba
ARR87 Differences**

□ Model Area

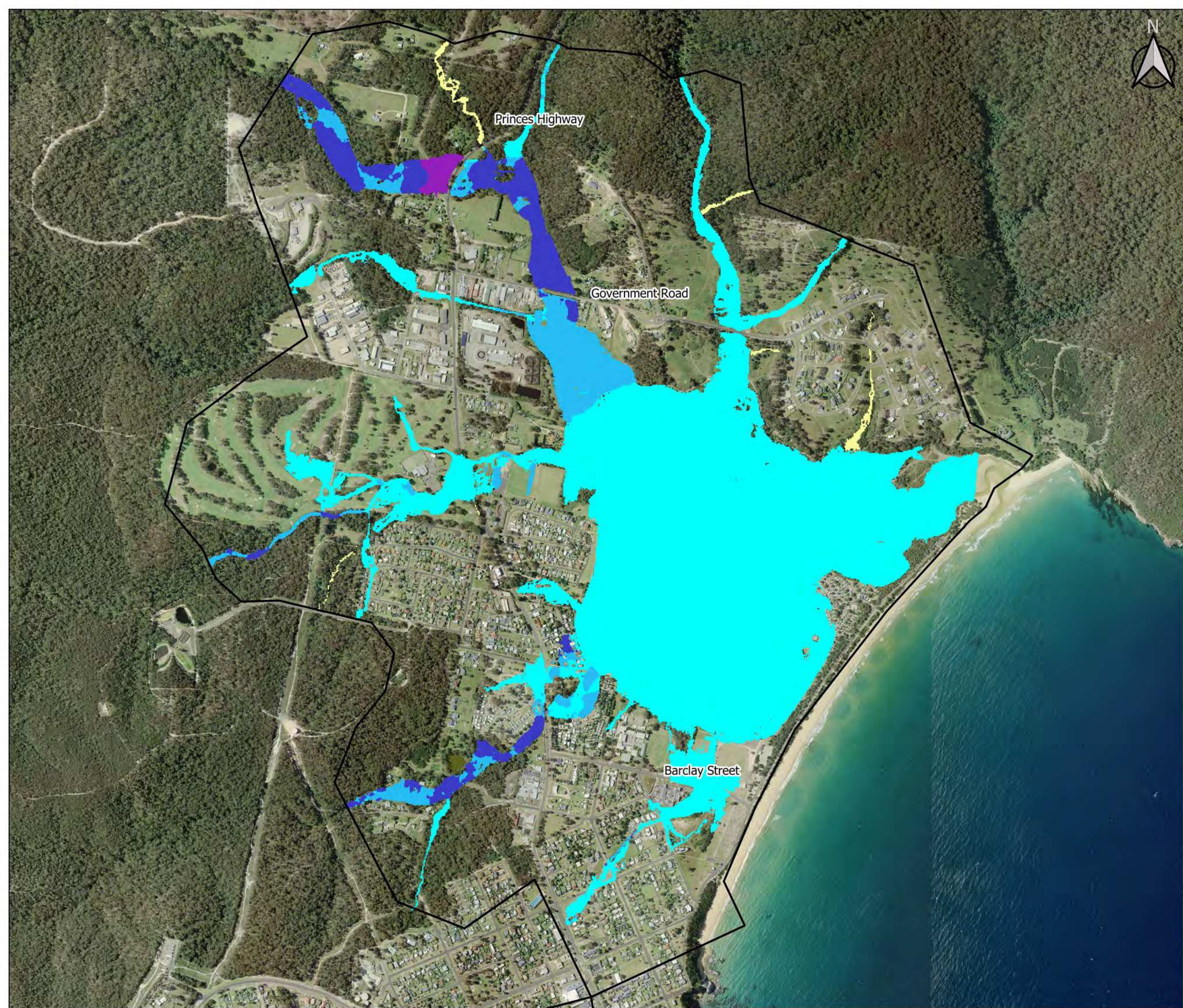
Difference (m)
ARR2016 less ARR87

- ≤ -1
- $-1 - -0.5$
- $-0.5 - -0.25$
- $-0.25 - -0.01$
- $-0.01 - 0.01$
- $0.01 - 0.25$
- $0.25 - 0.5$
- $0.5 - 1$
- > 1



Scale : 1:12500 @A3
Date : 18 June 2019
Revision : A
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Coordinate System : MGA94 Zone 55



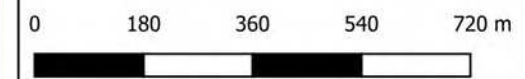


**G516-f
Eden - North
ARR87 Differences**

□ Model Area

Difference (m)
ARR2016 less ARR87

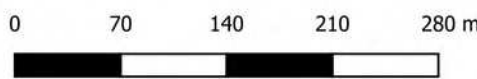
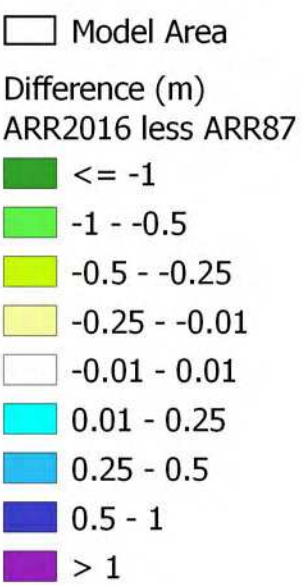
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- $-0.5 - -0.25$
- $-0.25 - -0.01$
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- $0.01 - 0.25$
- $0.25 - 0.5$
- $0.5 - 1$
- > 1



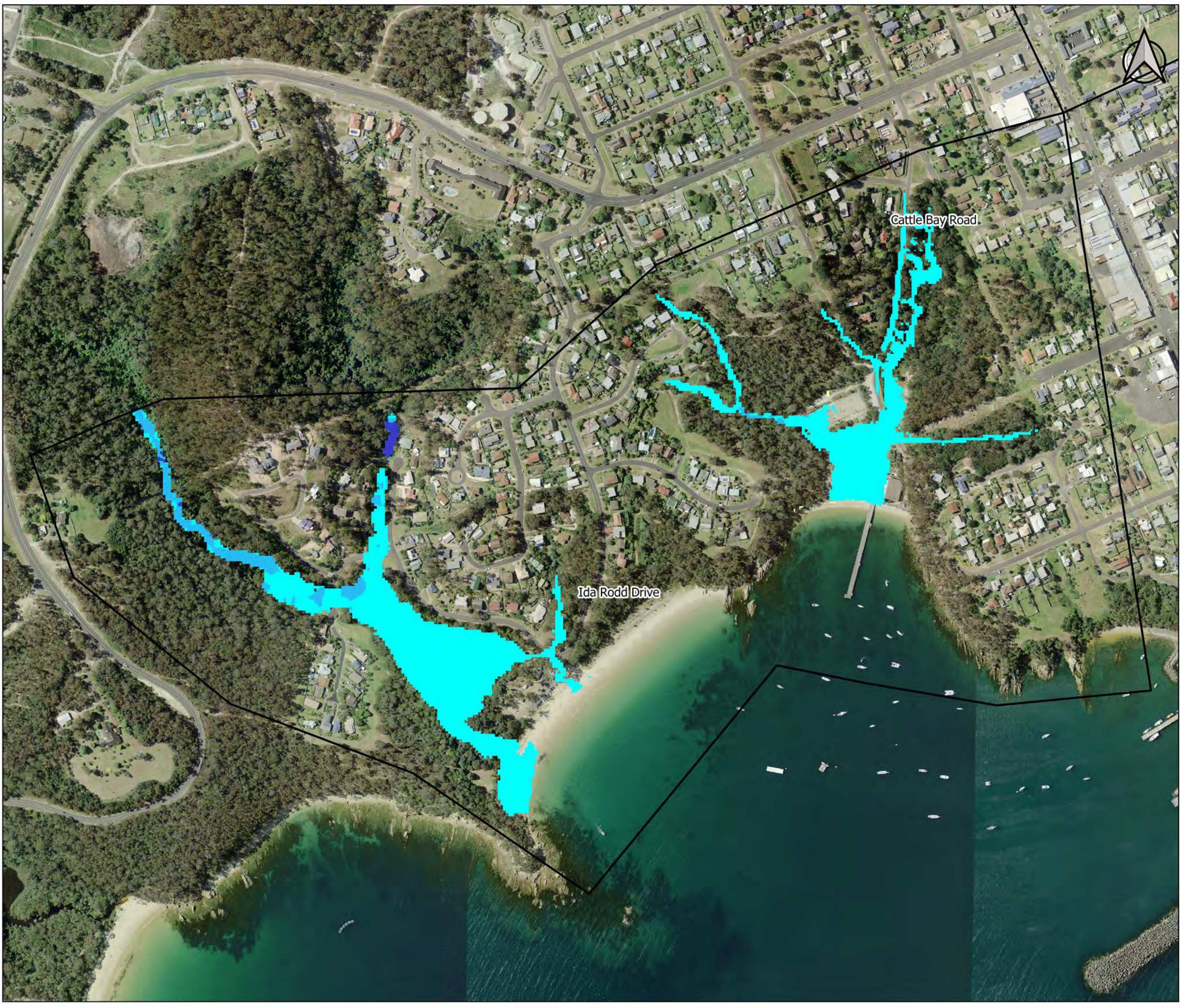
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Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55

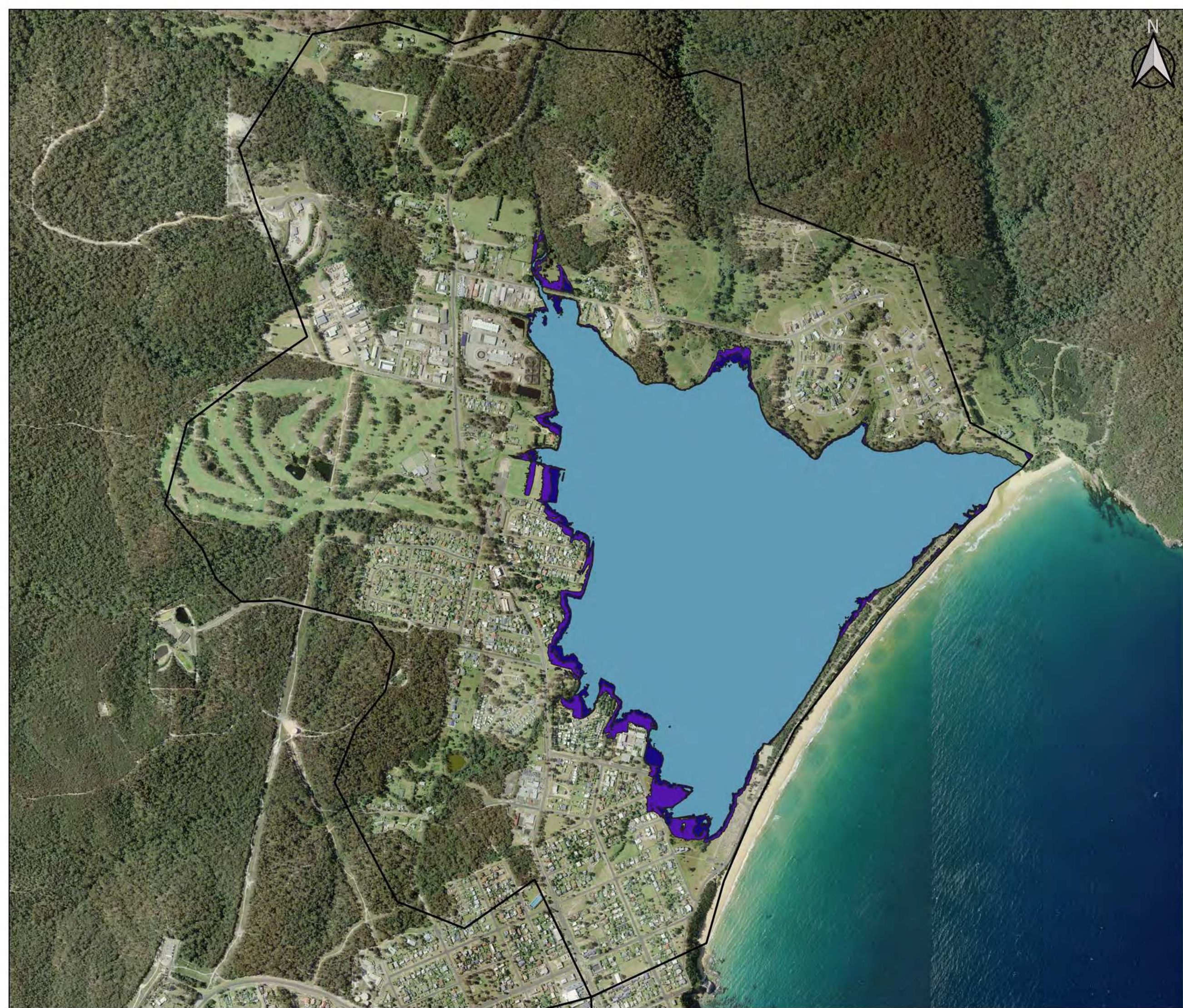


G516-g
Eden - South
ARR87 Differences



Scale : 1:5000 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





G517-f
Eden - North
Sea Level Rise Impacts

- Model Area
- Existing Extent
- 0.4m SLR Extent
- 0.9m SLR Extent



0 240 480 720 m



Scale : 1:12500 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55



G517-g
Eden - South
Sea Level Rise Impacts

- Model Area
- Existing Extent
- 0.4m SLR Extent
- 0.9m SLR Extent



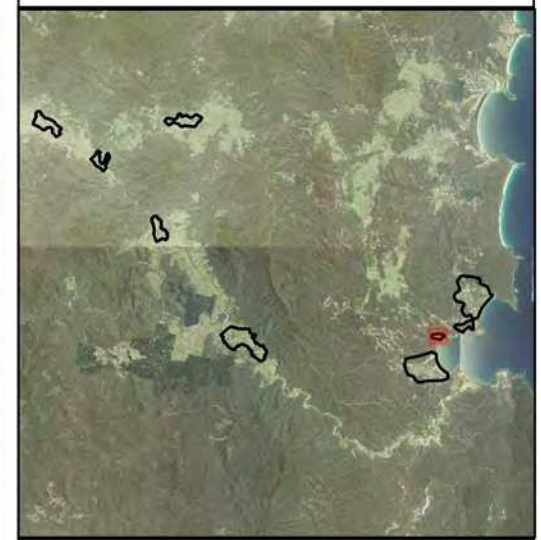
Scale : 1:5000 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55





**G517-h
Shadrachs
Sea Level Rise Impacts**

- Model Area
- Existing Extent
- 0.4m SLR Extent
- 0.9m SLR Extent



Scale : 1:5000 @A3
Date : 18 June 2019
Revision : A
Created by : LRE
Coordinate System : MGA94 Zone 55



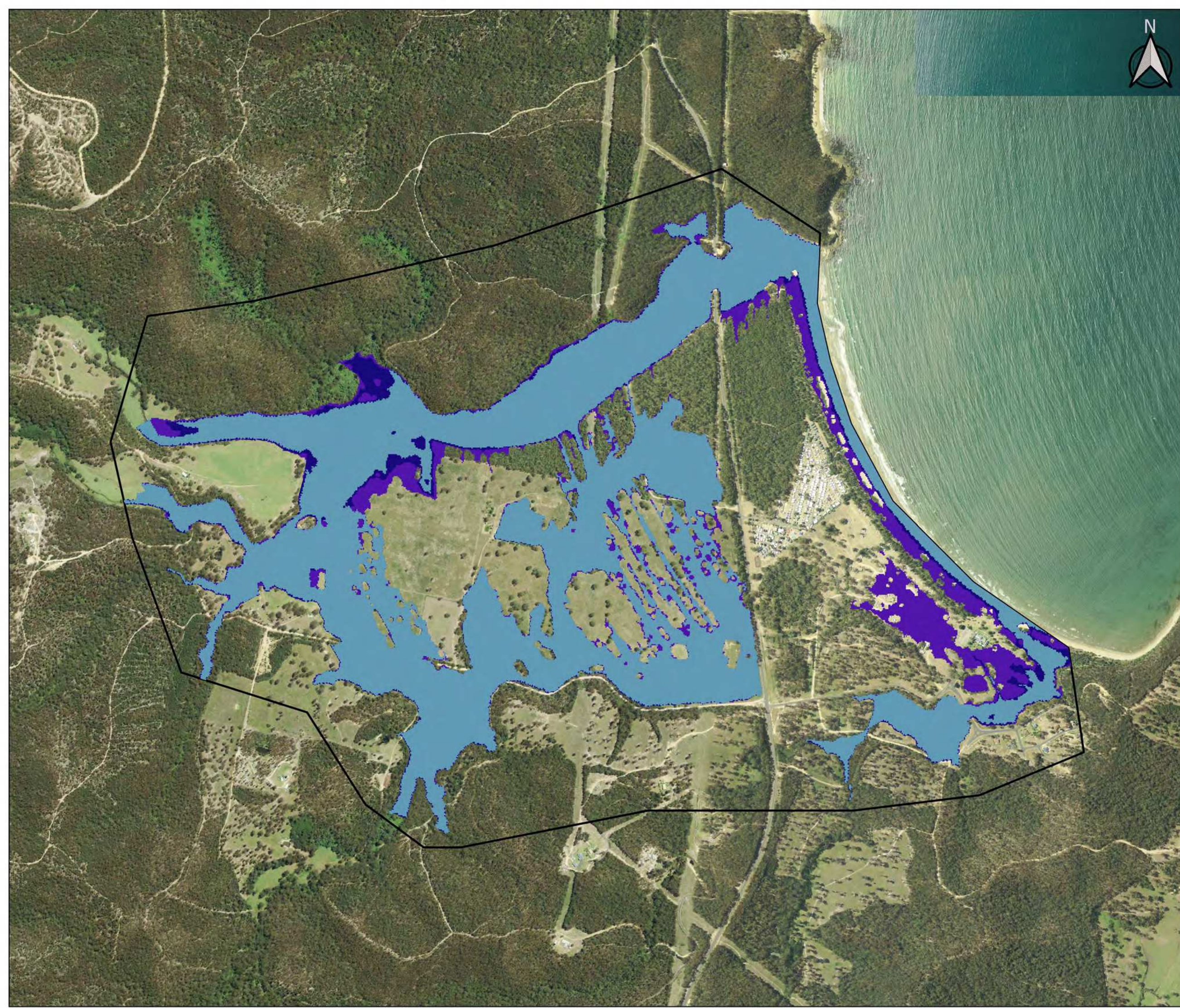
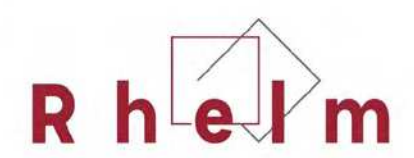


G517-i
Nullica / Boydtown
Sea Level Rise Impacts

-  Model Area
-  Existing Extent
-  0.4m SLR Extent
-  0.9m SLR Extent



Scale : 1:12500 @A3
Date : 18 June 2019
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Created by : LRE
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G601-a-1
Wyndham
PMF Depth

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mHAD)



0 140 280 420 560 m

Scale : 1:10000@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

G601-a-2
Wyndham
1% AEP Depth

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mAHD)

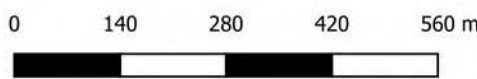
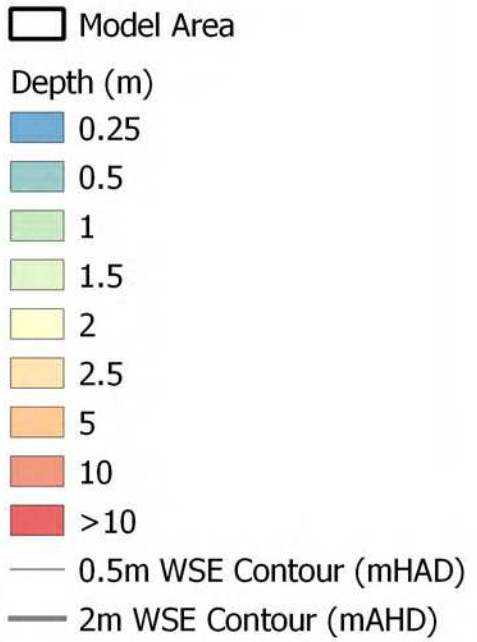
2m WSE Contour (mAHD)



0 140 280 420 560 m

Scale : 1:10000@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

G601-a-3
Wyndham
10% AEP Depth



Scale : 1:10000@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

Towamba River



G601-b-1 Rocky Hall PMF Depth

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mHAD)

Back Creek

Big Jack Mountain Road

Crossing

Cow Bali Creek



0 100 200 300 400 m



Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

Towamba River



**G601-b-2
Rocky Hall
1% AEP Depth**

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mAHD)

Back Creek

Big Jack Mountain Road

Crossing

Cow Bali Creek



0 100 200 300 400 m



Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

Towamba River



**G601-b-3
Rocky Hall
10% AEP Depth**

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mHAD)

2m WSE Contour (mAHd)

Back Creek

Big Jack Mountain Road

Crossing

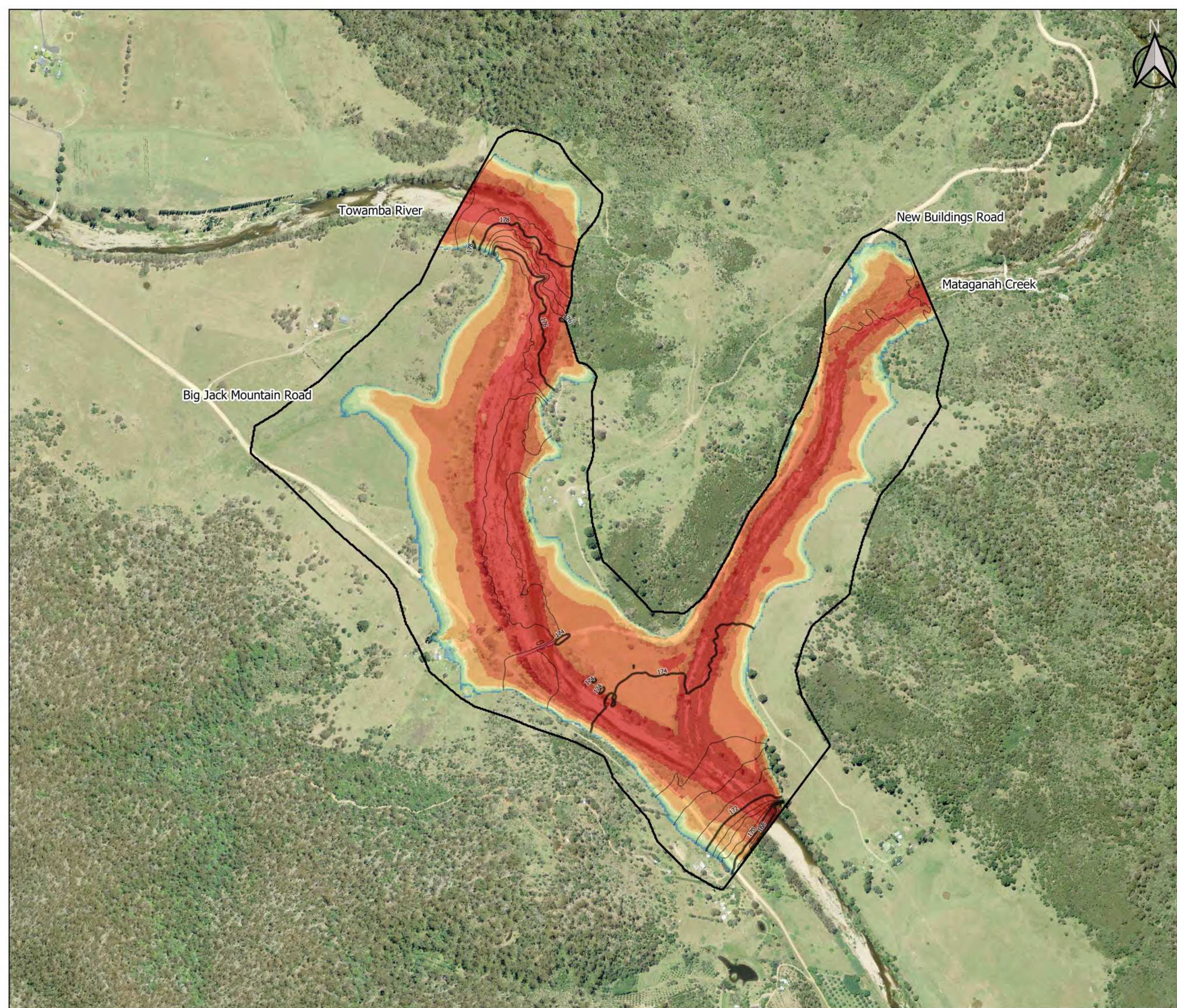
Cow Bali Creek



0 100 200 300 400 m



Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



G601-c-1 New Buildings PMF Depth

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

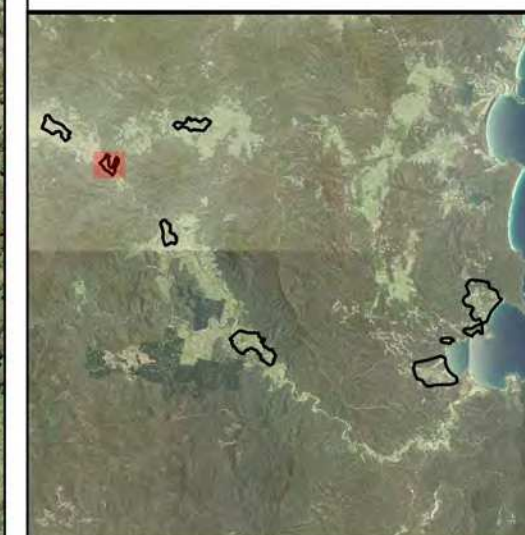
5

10

>10

0.5m WSE Contour (mAHD)

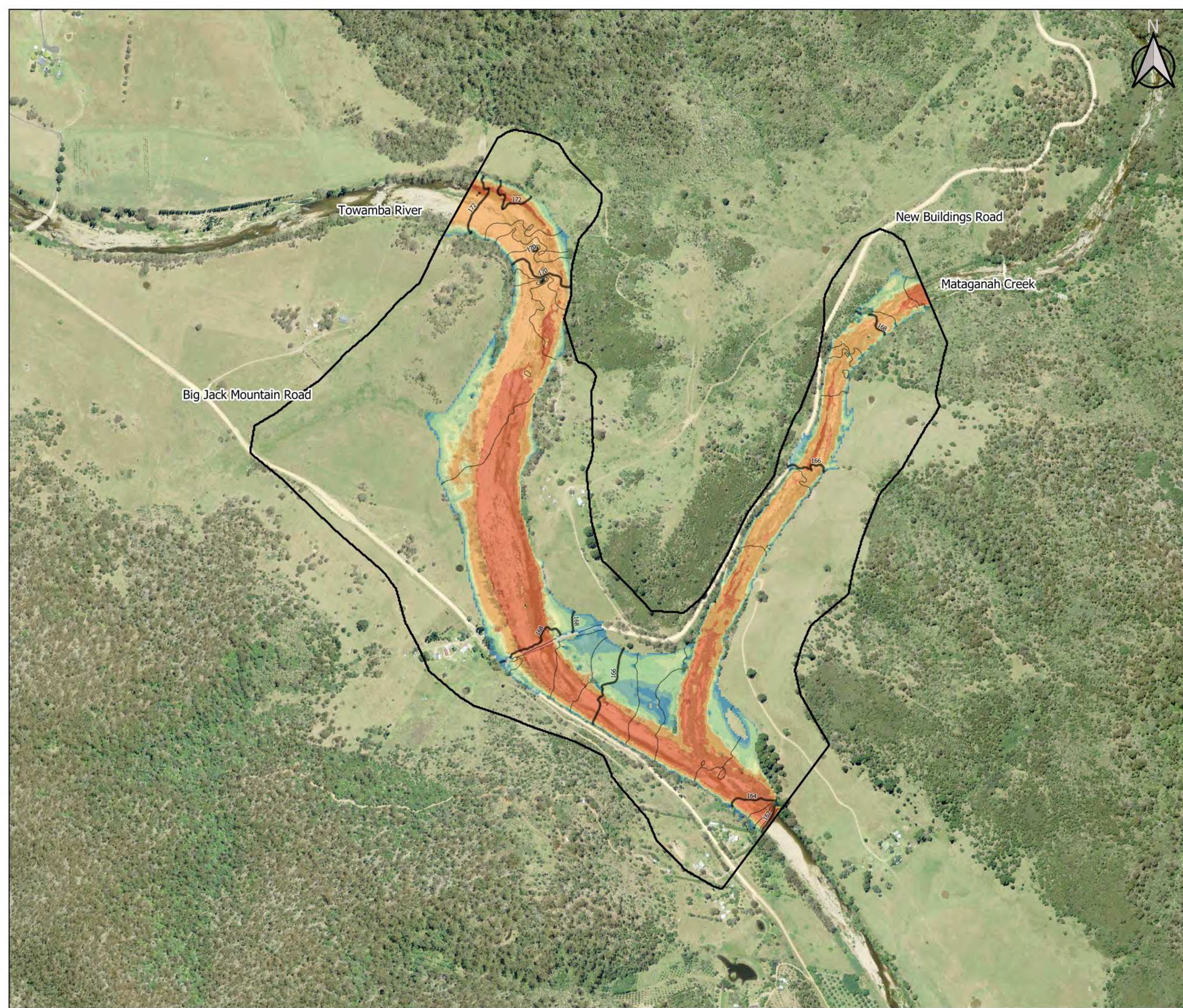
2m WSE Contour (mHAD)



0 100 200 300 400 m



Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



G601-c-2
New Buildings
1% AEP Depth

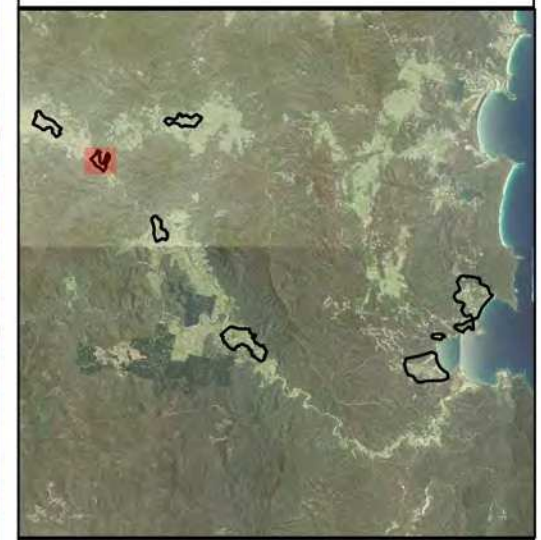
Model Area

Depth (m)

- 0.25
- 0.5
- 1
- 1.5
- 2
- 2.5
- 5
- 10
- >10

0.5m WSE Contour (mAHD)

2m WSE Contour (mAHD)

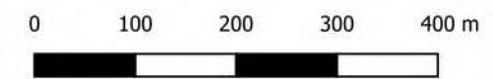
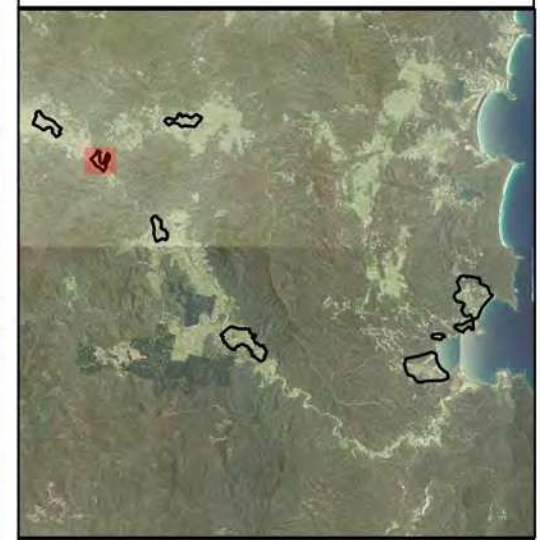


Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

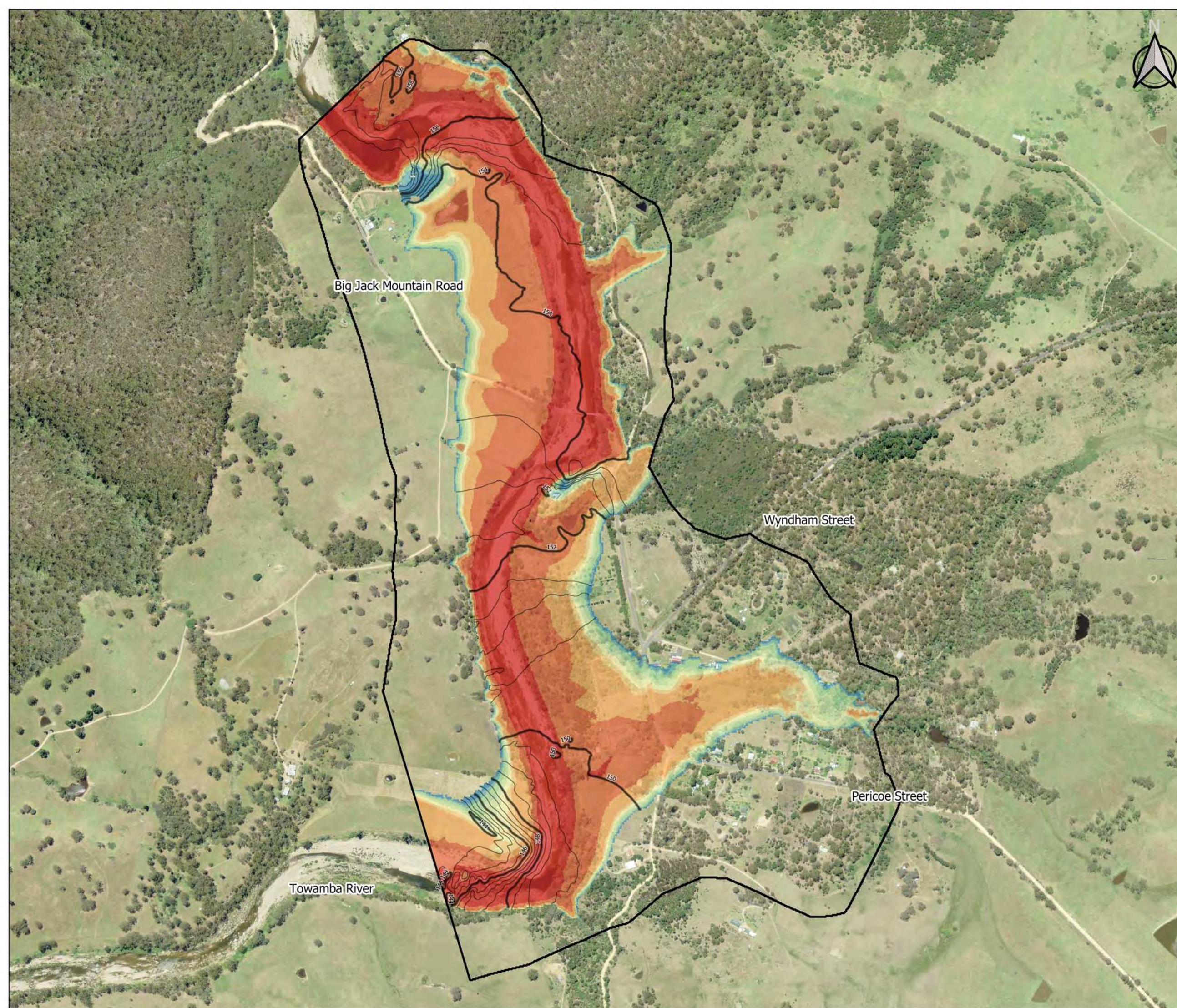


G601-c-3
New Buildings
10% AEP Depth

- Model Area
- Depth (m)
- 0.25
 - 0.5
 - 1
 - 1.5
 - 2
 - 2.5
 - 5
 - 10
 - >10
- 0.5m WSE Contour (mHAD)
- 2m WSE Contour (mAHD)



Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



G601-d-1
Burragate
PMF Depth

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

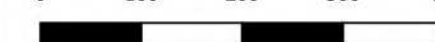
>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mHAD)



0 100 200 300 400 m



Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

G601-d-2
Burragate
1% AEP Depth



Model Area

Depth (m)

- 0.25
- 0.5
- 1
- 1.5
- 2
- 2.5
- 5
- 10
- >10

0.5m WSE Contour (mAHD)

2m WSE Contour (mAHD)

Big Jack Mountain Road

Wyndham Street

Pericoe Street

Towamba River

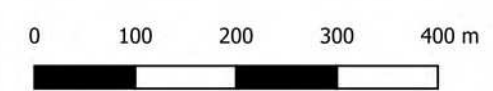


Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



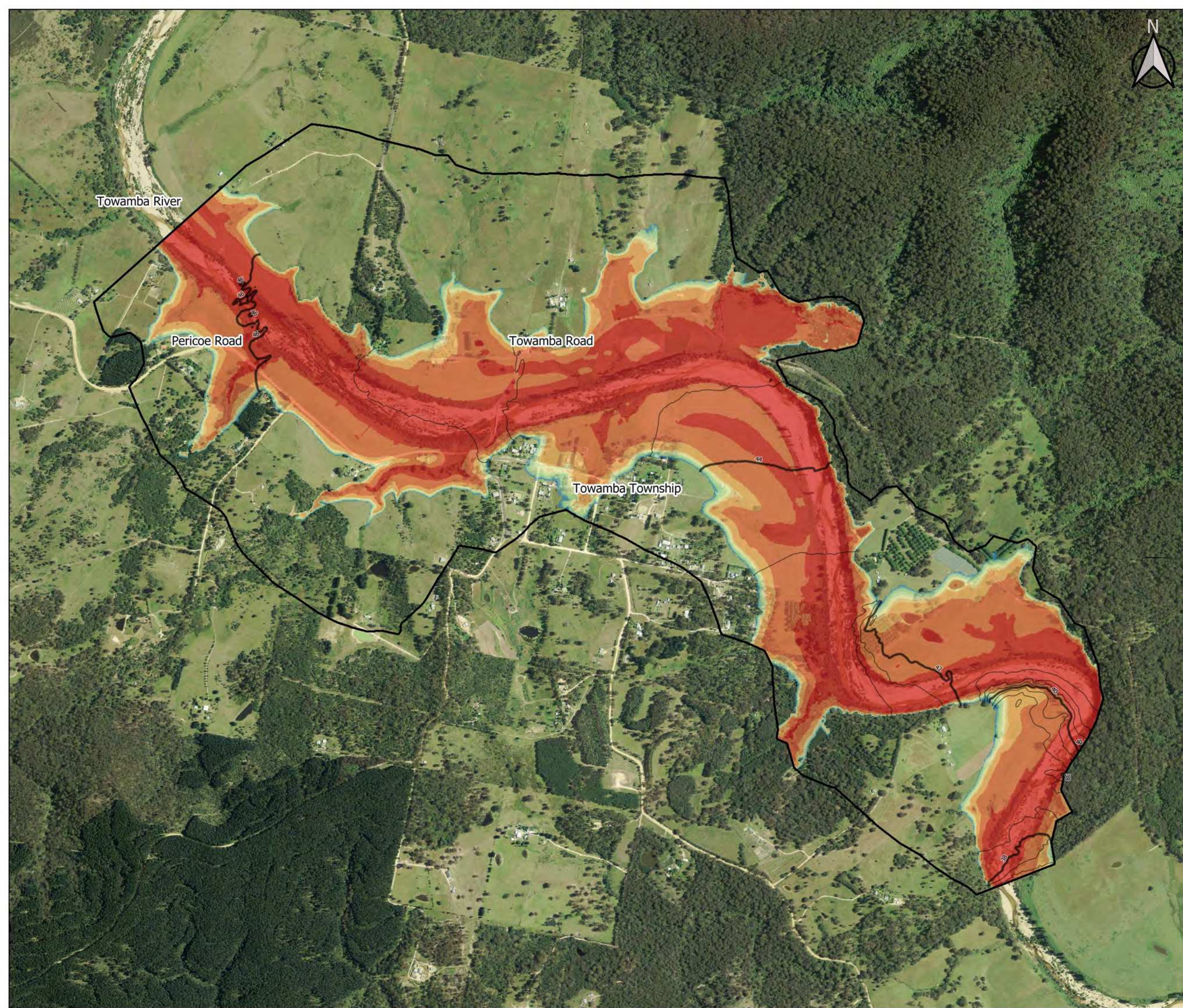
**G601-d-3
Burragate
10% AEP Depth**

- Model Area
- Depth (m)
- 0.25
 - 0.5
 - 1
 - 1.5
 - 2
 - 2.5
 - 5
 - 10
 - >10
- 0.5m WSE Contour (mHAD)
- 2m WSE Contour (mAHD)



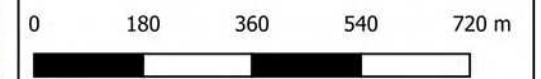
Scale : 1:7500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



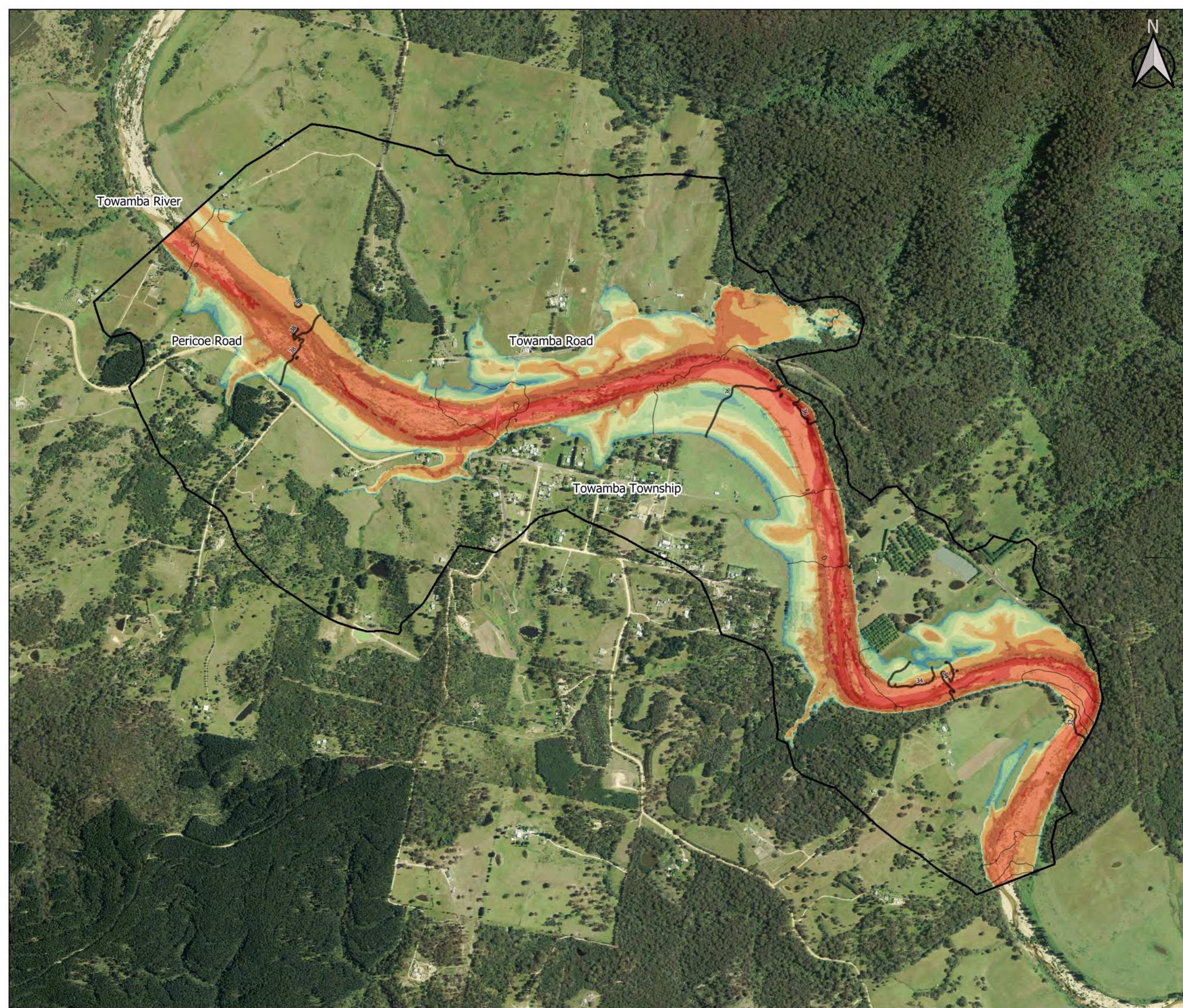


G601-e-1 Towamba PMF Depth

- Model Area
- Depth (m)
 - 0.25
 - 0.5
 - 1
 - 1.5
 - 2
 - 2.5
 - 5
 - 10
 - >10
- 0.5m WSE Contour (mAHD)
- 2m WSE Contour (mHAD)



Scale : 1:12500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



**G601-e-2
Towamba
1% AEP Depth**

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mAHD)



0 180 360 540 720 m

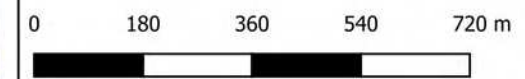


Scale : 1:12500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

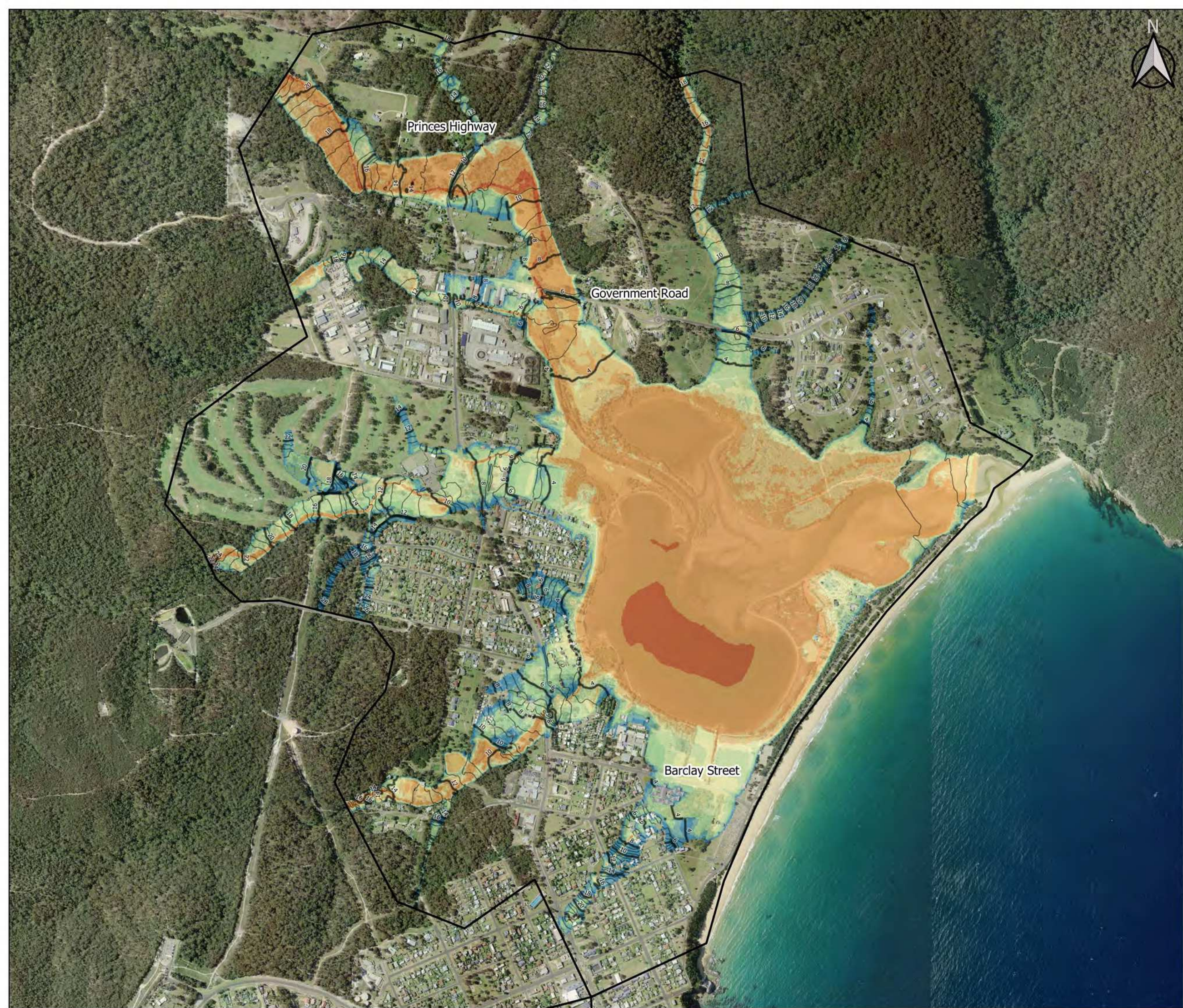


**G601-e-3
Towamba
10% AEP Depth**

- Model Area
- Depth (m)
 - 0.25
 - 0.5
 - 1
 - 1.5
 - 2
 - 2.5
 - 5
 - 10
 - >10
- 0.5m WSE Contour (mHAD)
- 2m WSE Contour (mAHD)

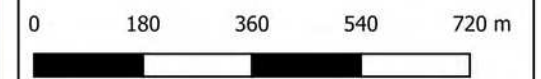


Scale : 1:12500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



**G601-f-1
Eden - North
PMF Depth**

-  Model Area
- Depth (m)
 -  0.25
 -  0.5
 -  1
 -  1.5
 -  2
 -  2.5
 -  5
 -  10
 -  >10
-  0.5m WSE Contour (mAHD)
-  2m WSE Contour (mHAD)



Scale : 1:12500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



**G601-f-2
Eden - North
1% AEP Depth**

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

5

10

>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mAHD)



0 180 360 540 720 m

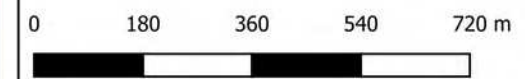


Scale : 1:12500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55



G601-f-3
Eden - North
10% AEP Depth

- Model Area
- Depth (m)
- 0.25
 - 0.5
 - 1
 - 1.5
 - 2
 - 2.5
 - 5
 - 10
 - >10
- 0.5m WSE Contour (mHAD)
- 2m WSE Contour (mHAD)



Scale : 1:12500@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

G601-g-1
Eden - South
PMF Depth

Model Area

Depth (m)

0.25

0.5

1

1.5

2

2.5

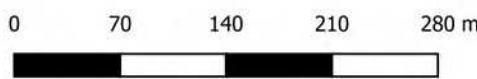
5

10

>10

0.5m WSE Contour (mAHD)

2m WSE Contour (mHAD)



Scale : 1:5000@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

G601-g-2
Eden - South
1% AEP Depth

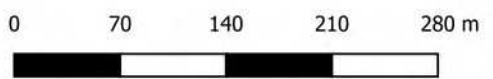
Model Area

Depth (m)

- 0.25
- 0.5
- 1
- 1.5
- 2
- 2.5
- 5
- 10
- >10

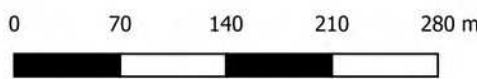
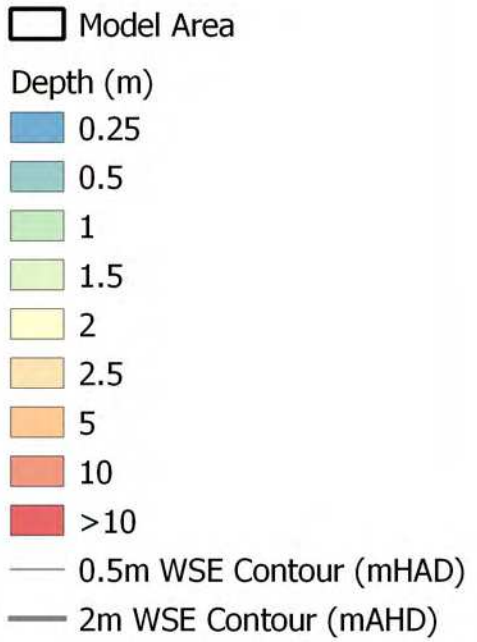
0.5m WSE Contour (mAHD)

2m WSE Contour (mAHD)



Scale : 1:5000@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55

G601-g-3
Eden - South
10% AEP Depth



Scale : 1:5000@A3
Date : 10 September 2019
Revision : B
Created by : LRE
Coordinate System : MGA94 Zone 55