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### Sensitivity Analysis SS2 Mannings Roughness -20% FFA 1% AEP Peak Flood Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074 Drawn By: AS Map: 59916074-GS-058-1p\_SensitivityMinus20\_FLCD\_5k.mxd . Rev: 04 Date: 2023-05-30

#### Legend

N

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- :-: Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.1

Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

#### References:

- Base data supplied by NSW SS and Esri
   Aerial imagery supplied by MetroMap
   Cadastre (2015) supplied by PCC





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#### Legend

N

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent 1 1

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.2

Notes:

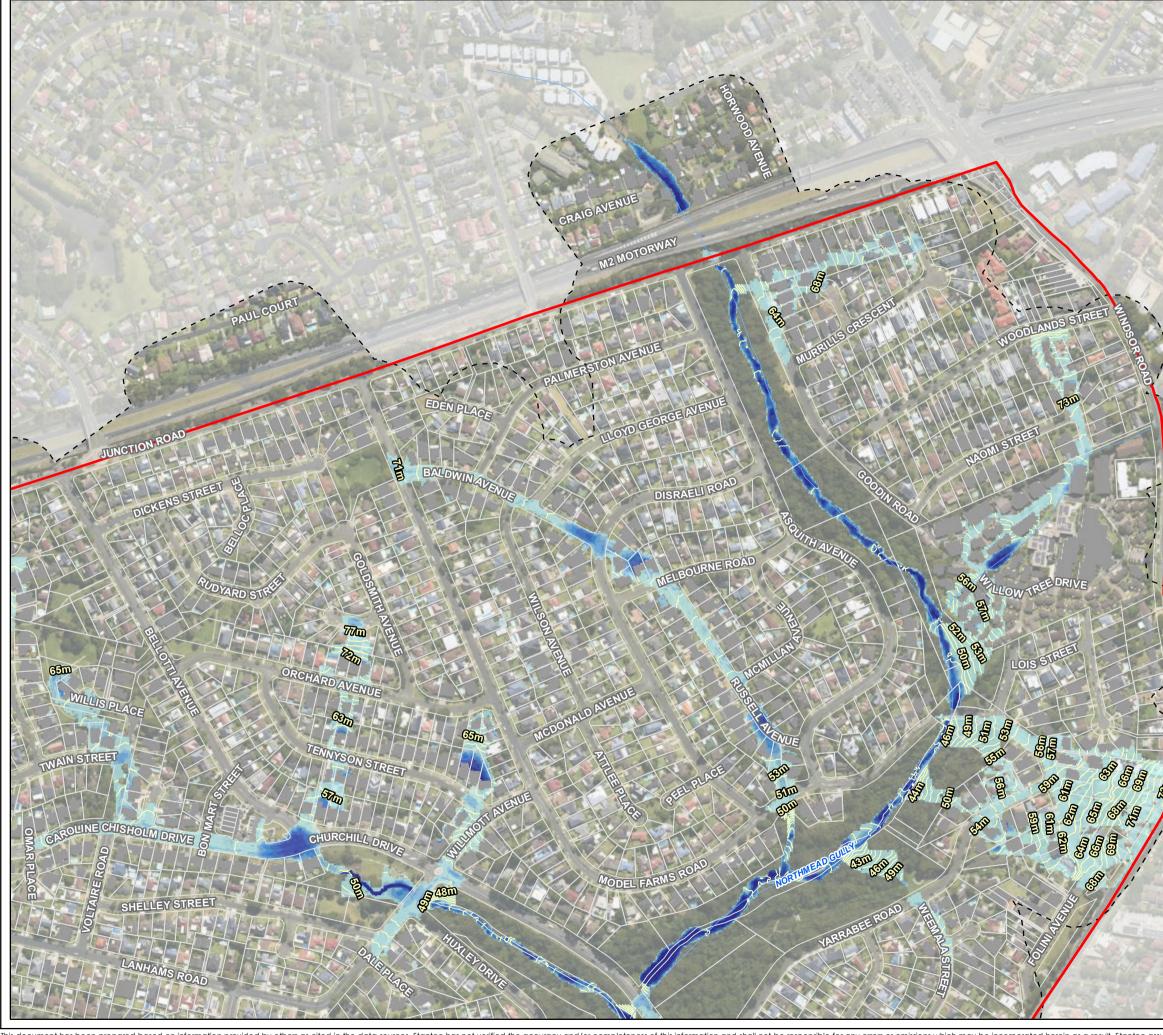
6511

- 1. Coordinate System: GDA 1994 MGA Zone 56 References:
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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent 1 1

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.3

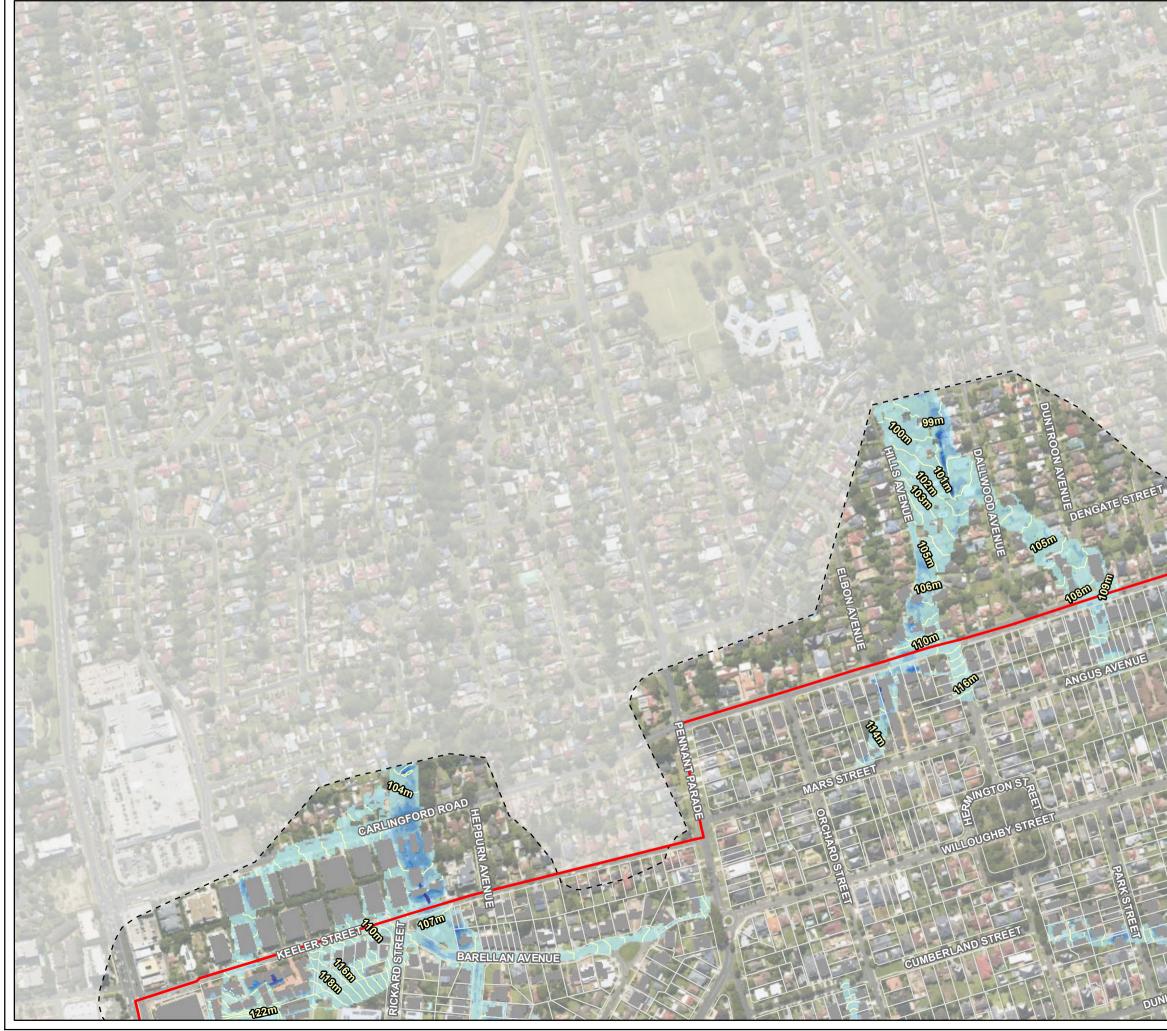
Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

N

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent 1 1

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.4

#### Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

N

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.5

Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

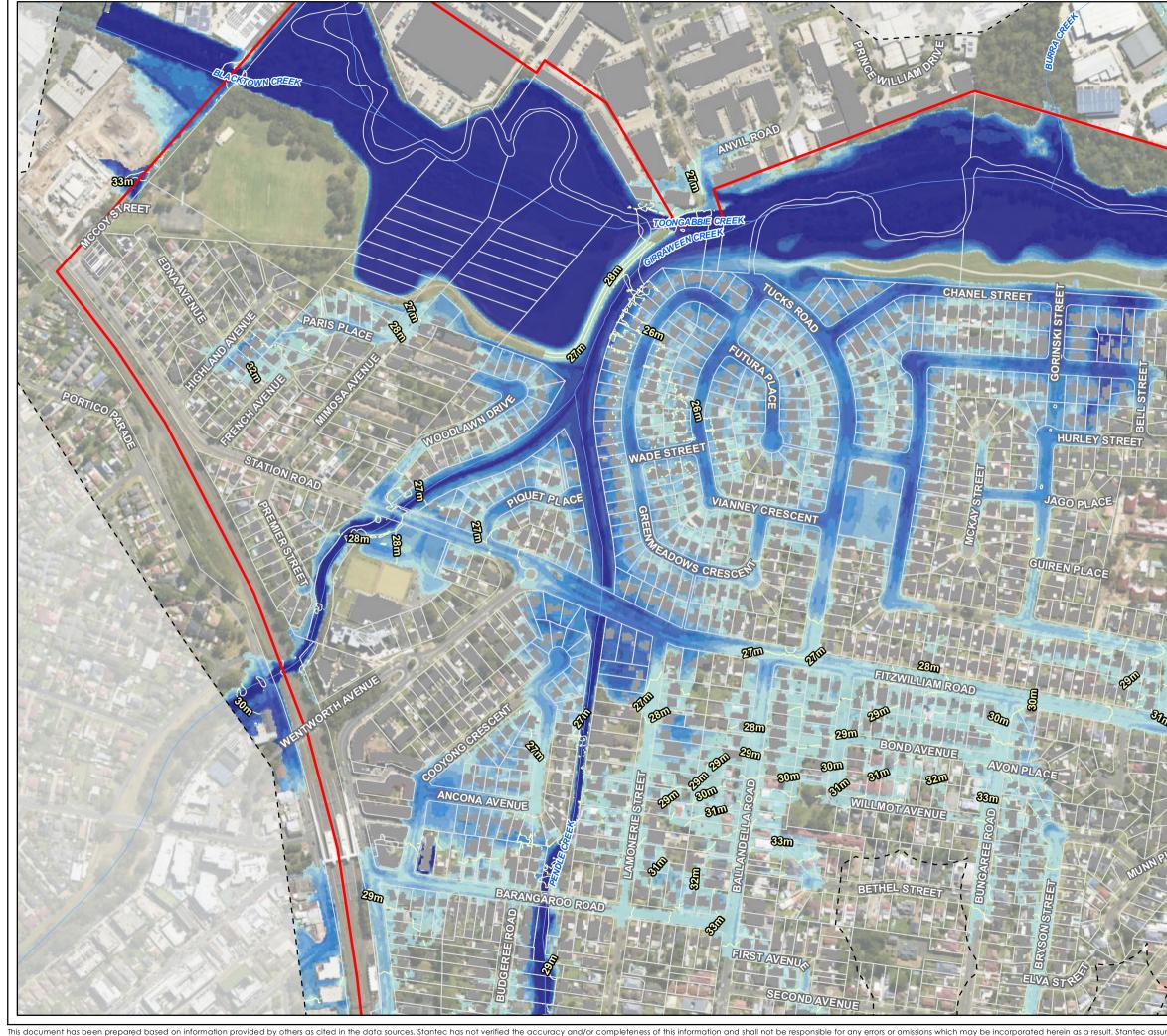
#### References:

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#### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.6

I. Coordinate System: GDA 1994 MGA Zone 56

Notes:

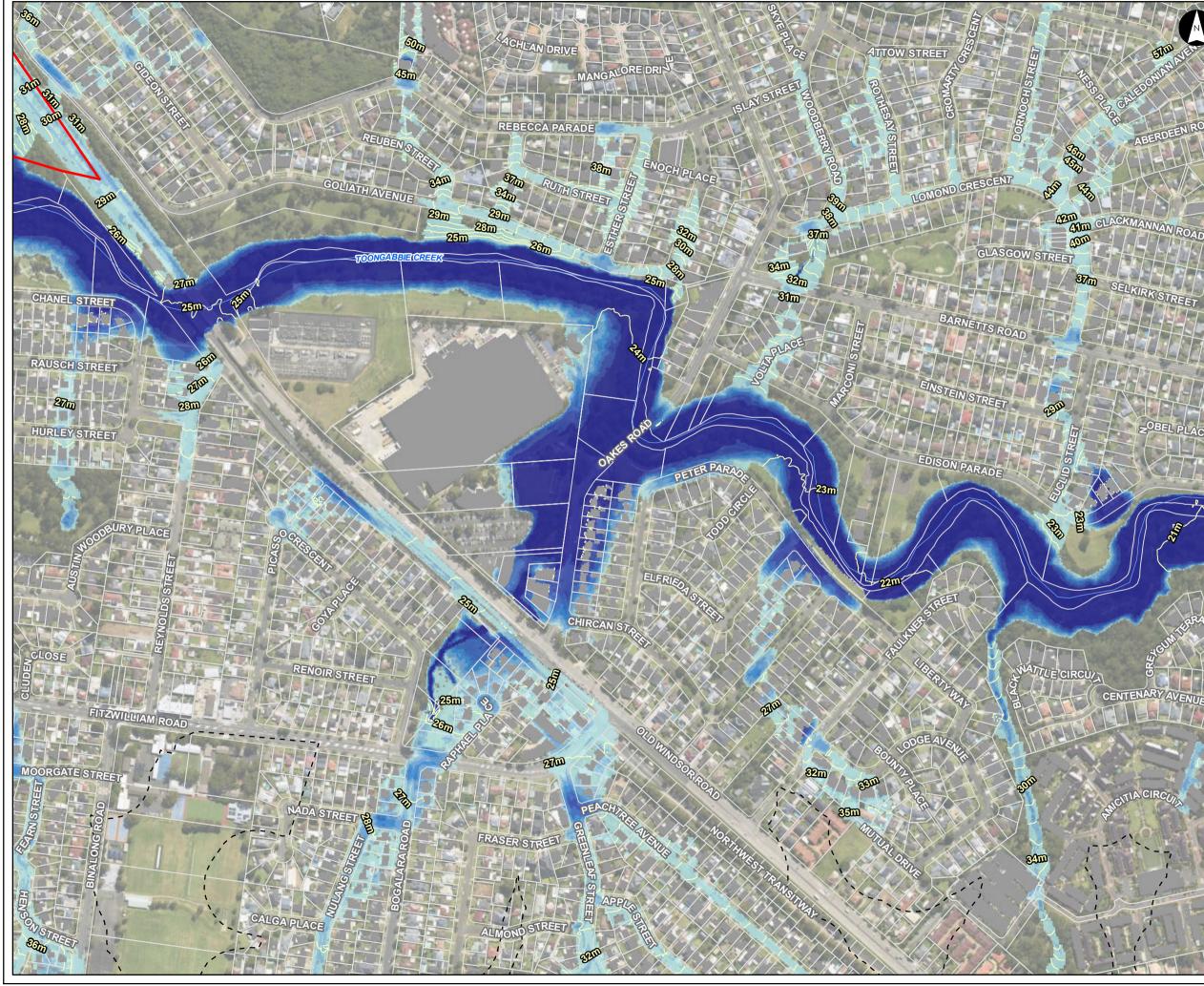
GATE STREET

- References:
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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

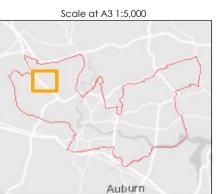
#### Figure M4.7

Notes: I. Coordinate System: GDA 1994 MGA Zone 56

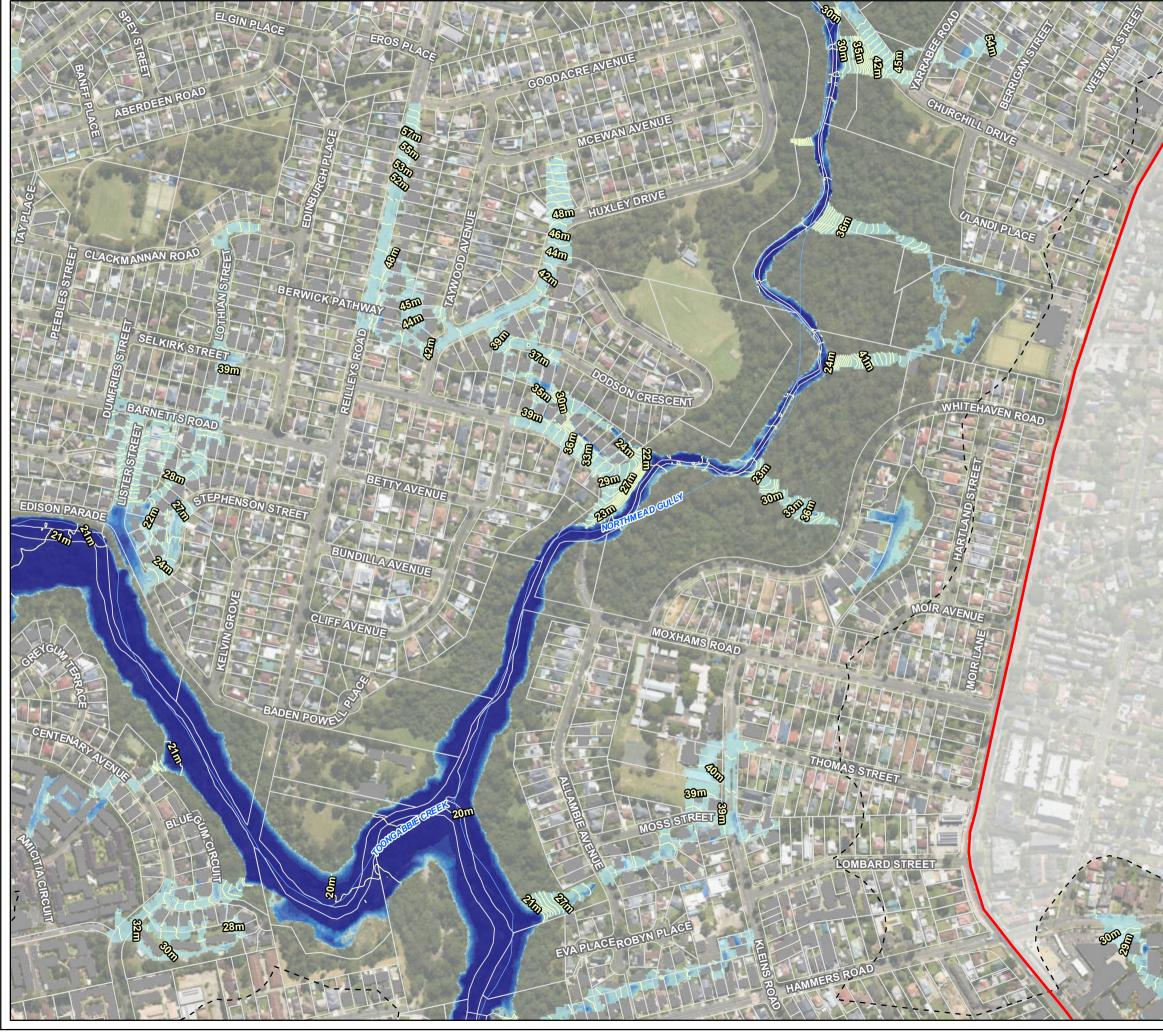
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Parramatta River Flood Study

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent 1 1

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.8

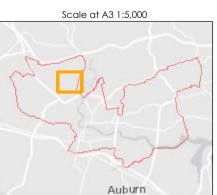
Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

#### References:

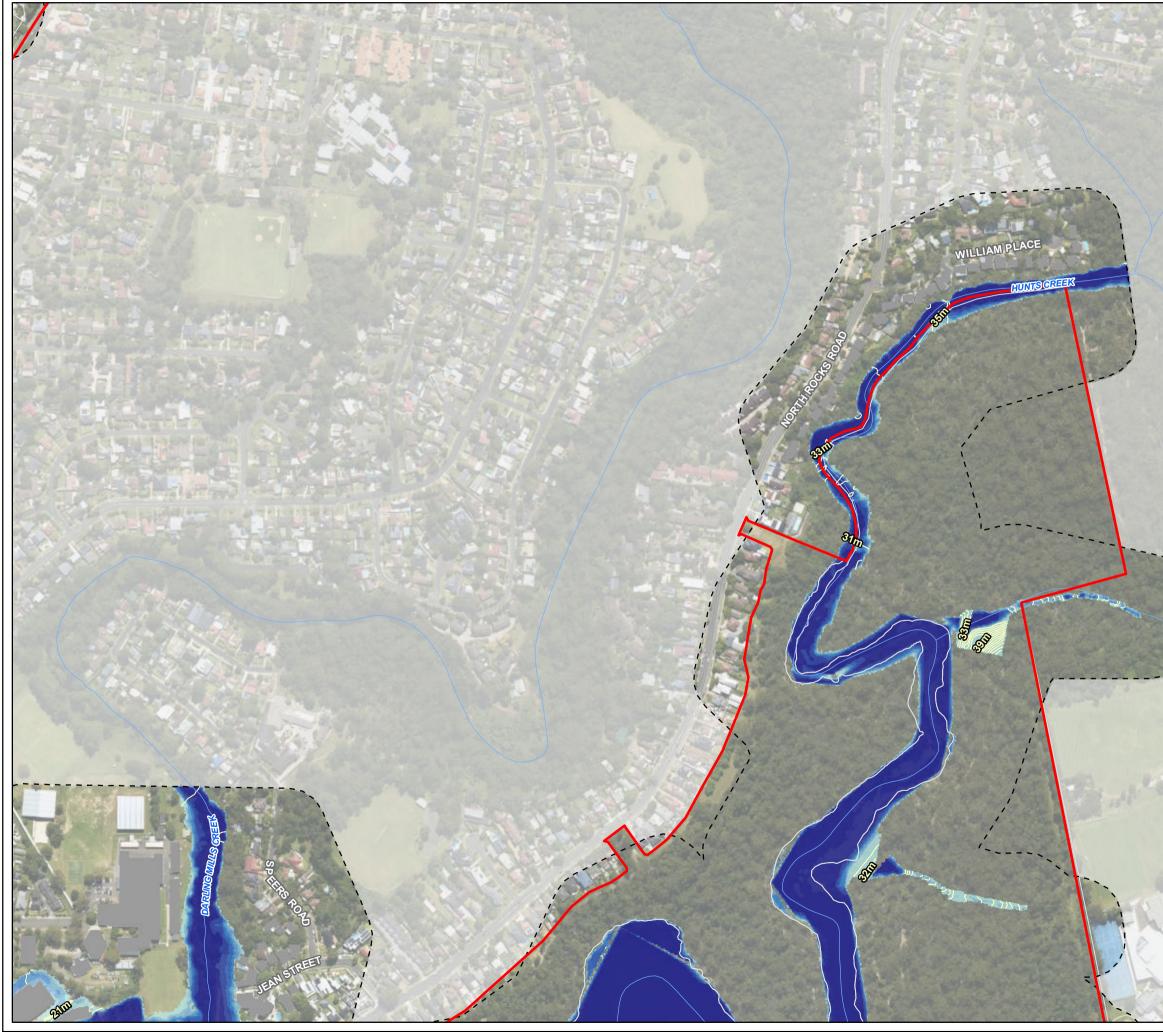
CAMPBELL STREET

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   Aerial imagery supplied by MetroMap
   Cadastre (2015) supplied by PCC





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Parramatta River Flood Study

Project Code: 59916074 Drawn By: AS Map: 59916074-GS-058-1p\_SensitivityMinus20\_FLCD\_5k.mxd . Rev: 04 Date: 2023-05-30

#### Legend

٦	Study	Area
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Watercourse

- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent I = I

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.9

Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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   Aerial imagery supplied by MetroMap
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Parramatta River Flood Study

Project Code: 59916074 Drawn By: AS Map: 59916074-GS-058-1p\_SensitivityMinus20\_FLCD\_5k.mxd . Rev: 04 Date: 2023-05-30

#### Legend

N

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
- Building Footprint
- Tuflow Model Extent I = I

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

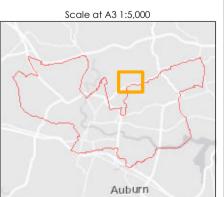
#### Figure M4.10

#### Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

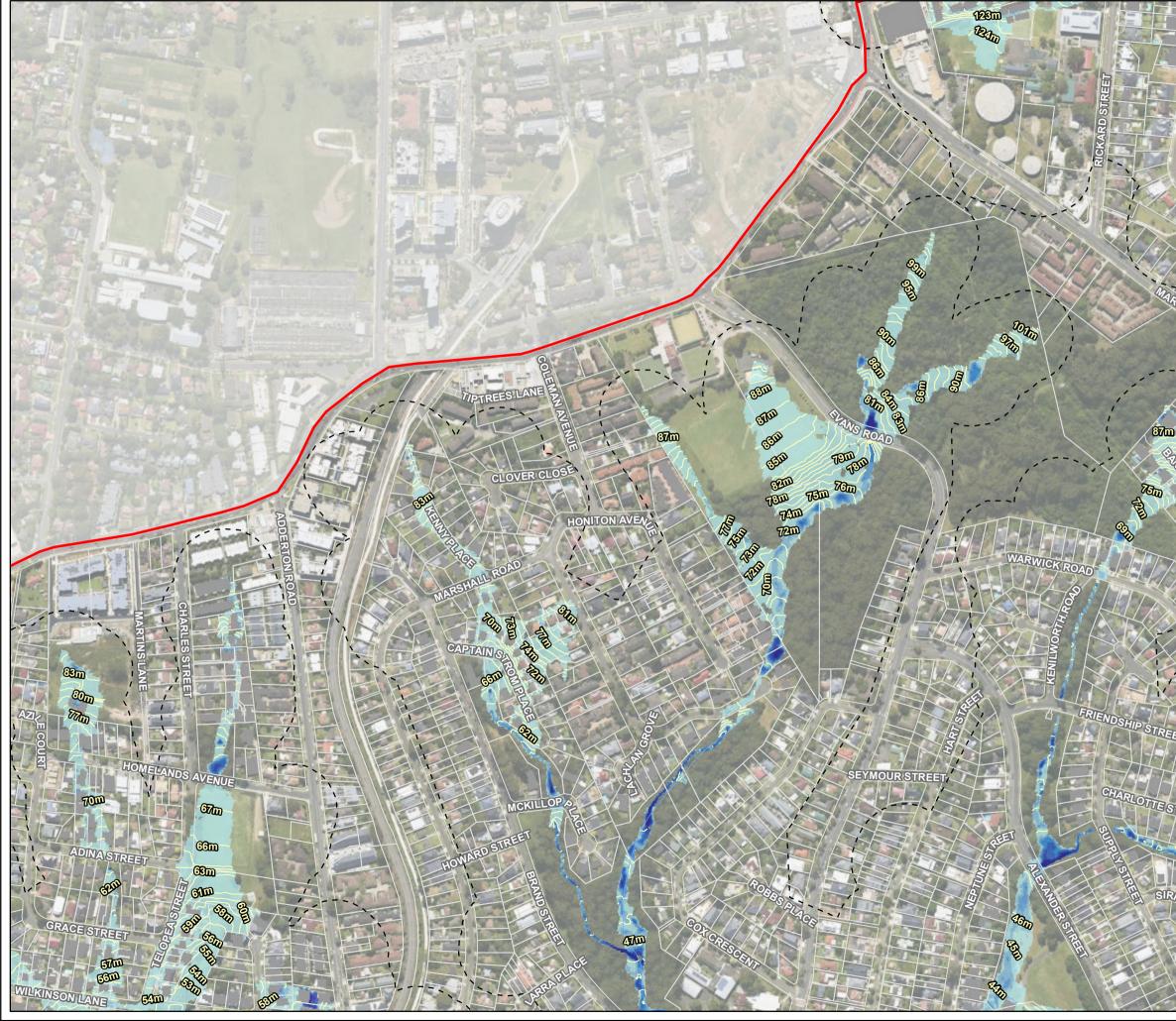
References:

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.11

#### Notes: . Coordinate System: GDA 1994 MGA Zone 56

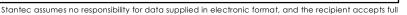
#### References:

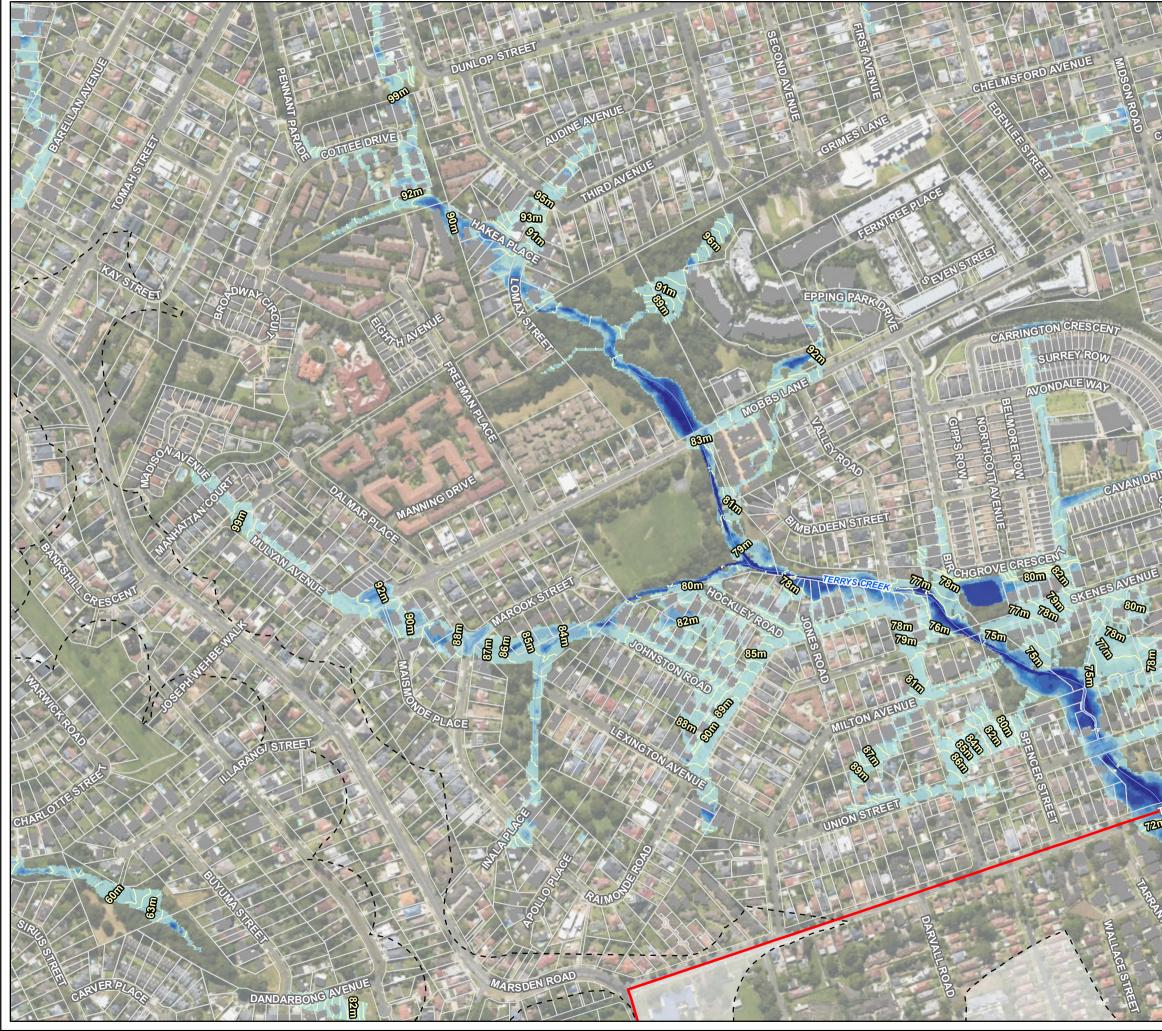
- Base data supplied by NSW SS and Esri
   Aerial imagery supplied by MetroMap
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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre

COID

- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

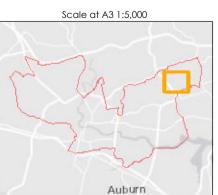
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. Coordinate System: GDA 1994 MGA Zone 56

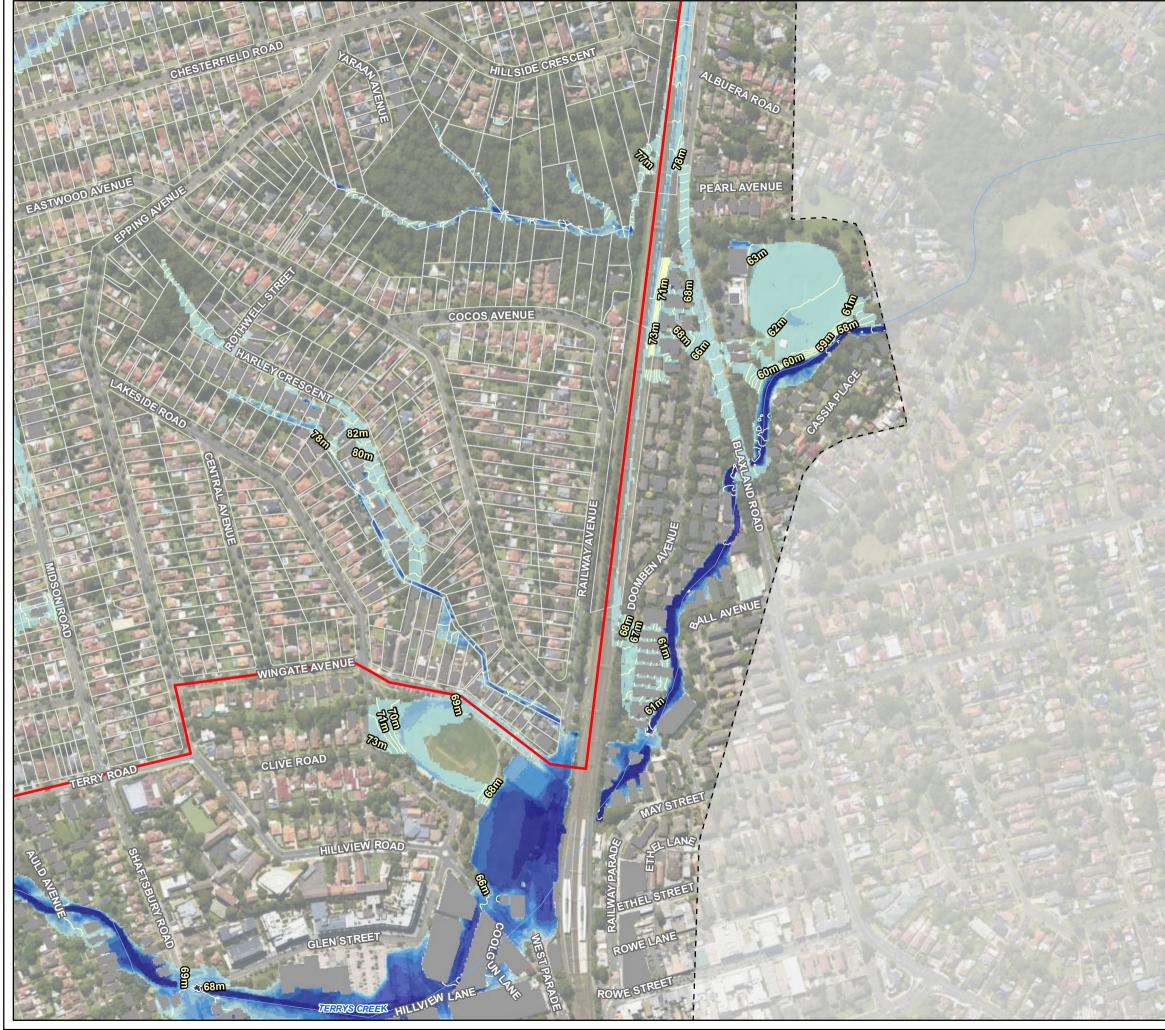
Notes:

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   Cadastre (2015) supplied by PCC





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#### Legend

N

	Study	Area
_	0.00.	/ 0. 0.

Watercourse

- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent I = I

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.13

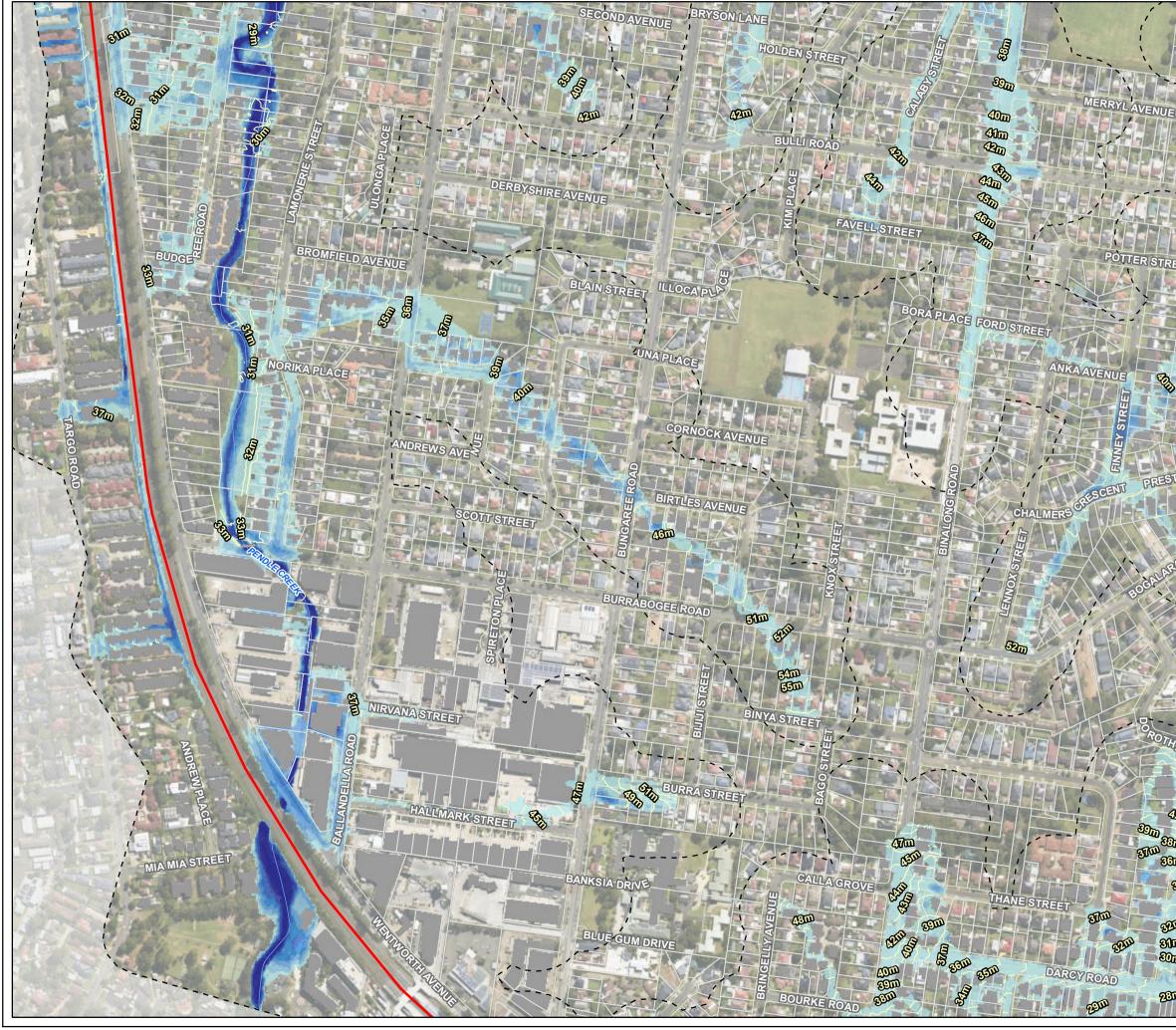
Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.14

. Coordinate System: GDA 1994 MGA Zone 56

Notes:

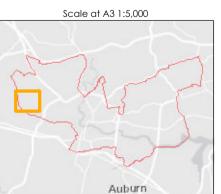
CALOOLA ROAD

3400

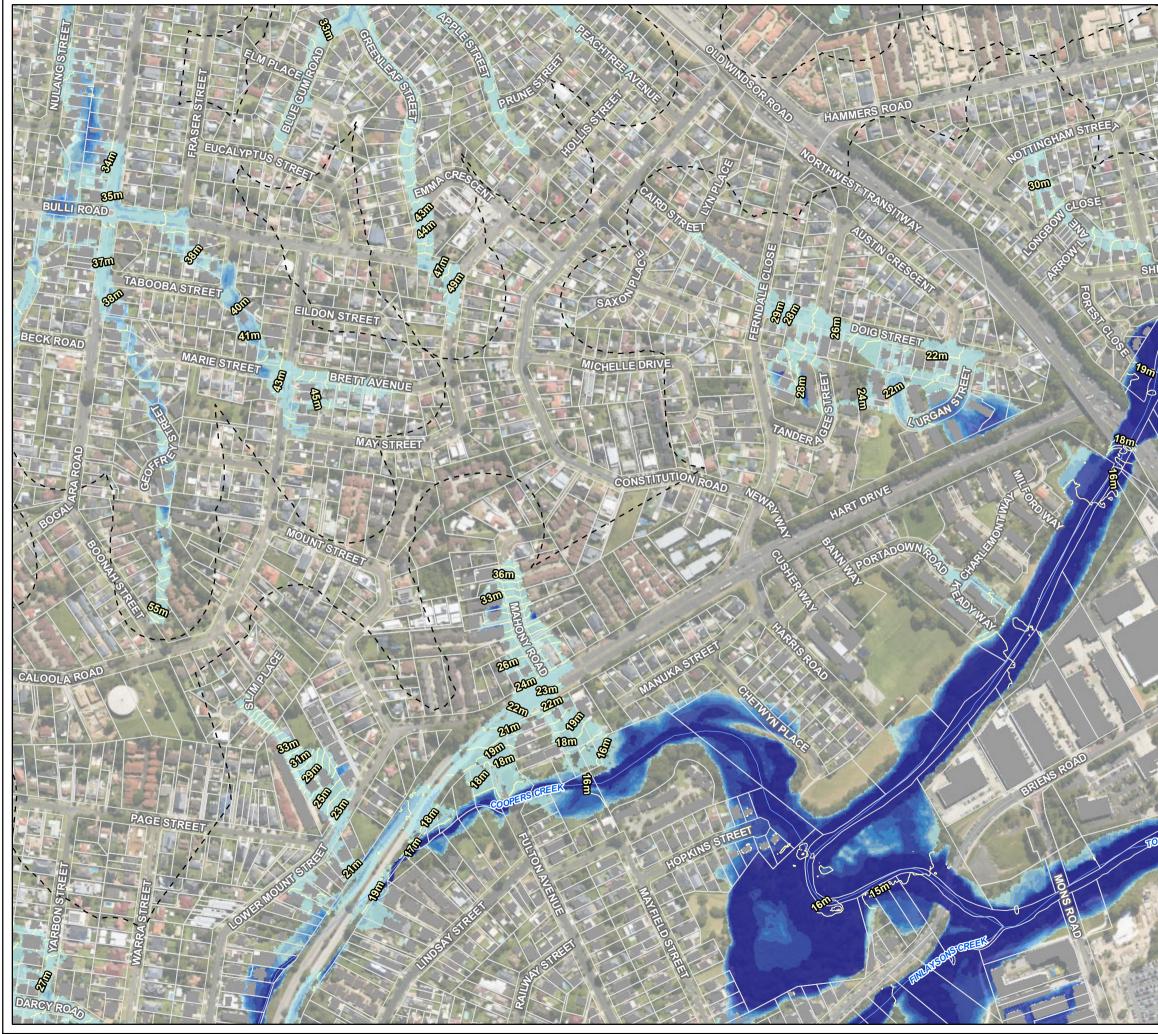
3211 3100 SOM

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#### Legend

200

2100

OOD STREET

2000

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

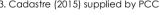
#### Figure M4.15

### 1. Coordinate System: GDA 1994 MGA Zone 56

References:

Notes:

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   Cadastre (2015) supplied by PCC

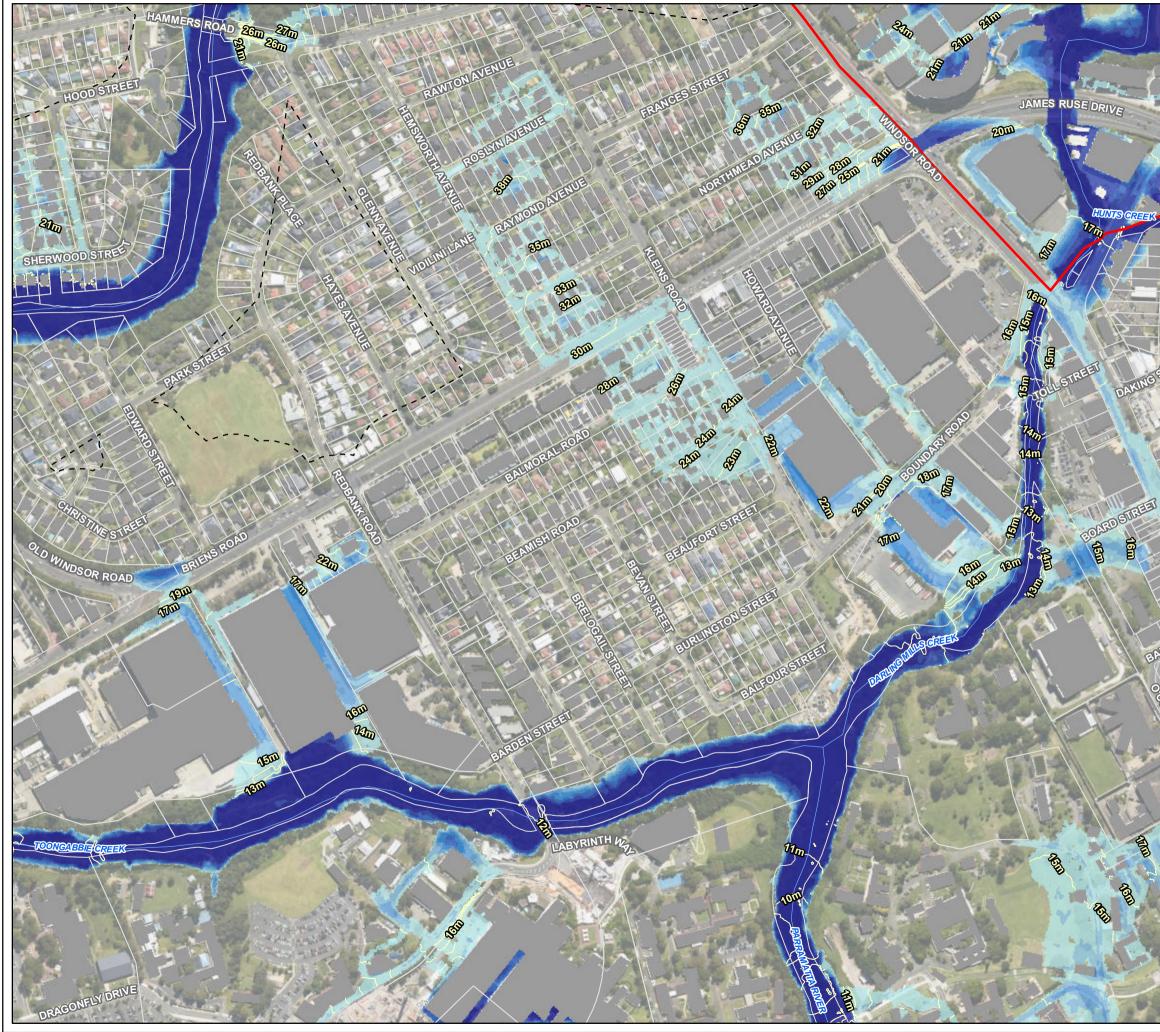




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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.16

#### 1. Coordinate System: GDA 1994 MGA Zone 56

#### References:

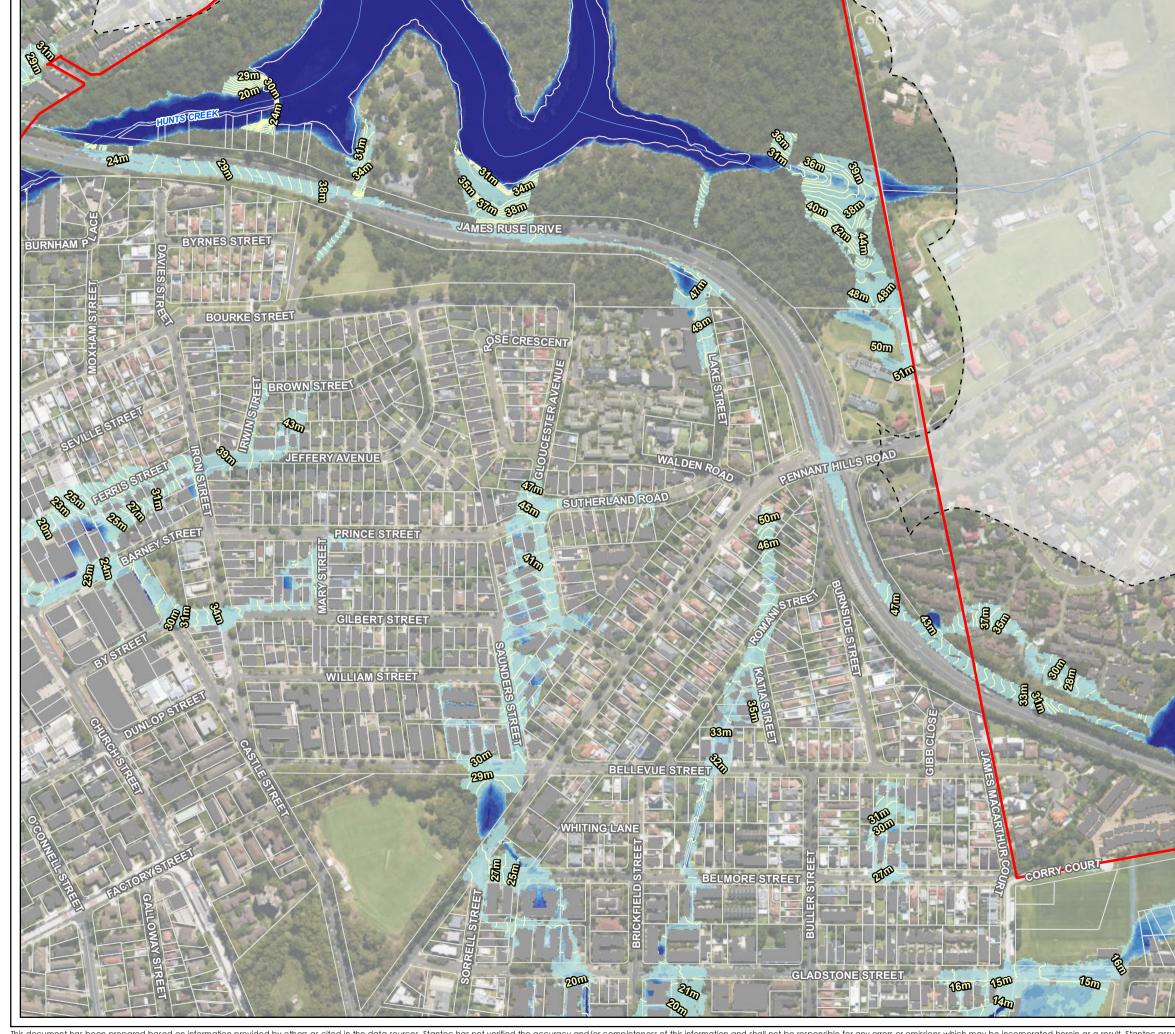
Notes:

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#### Legend

N

Study Are	a
-----------	---

Watercourse

- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent 1 1

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

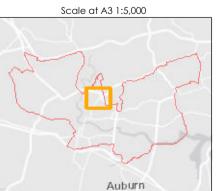
#### Figure M4.17

#### Notes: . Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

64m

6200

**60m** 

B

9500

GUI

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.18

#### Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

4200

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

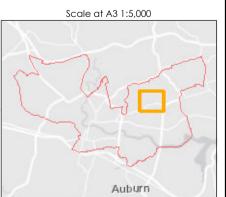
#### Figure M4.19

. Coordinate System: GDA 1994 MGA Zone 56

Notes:

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### Sensitivity Analysis SS2 Mannings Roughness -20% FFA 1% AEP Peak Flood Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074 Drawn By: AS Map: 59916074-GS-058-1p\_SensitivityMinus20\_FLCD\_5k.mxd . Rev: 04 Date: 2023-05-30

#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent I = I

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.20

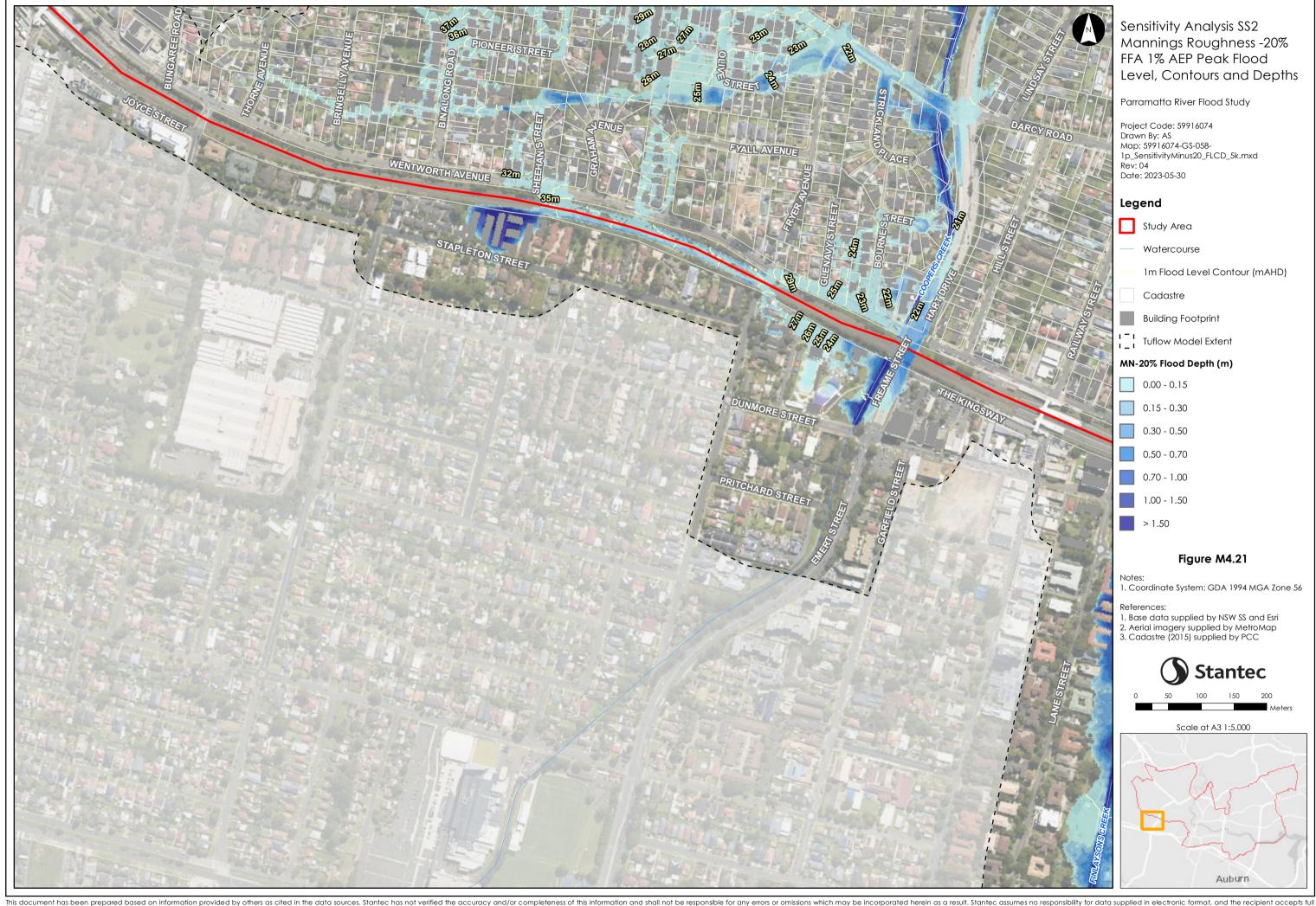
Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

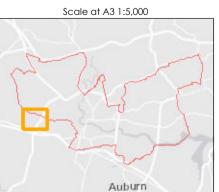
0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

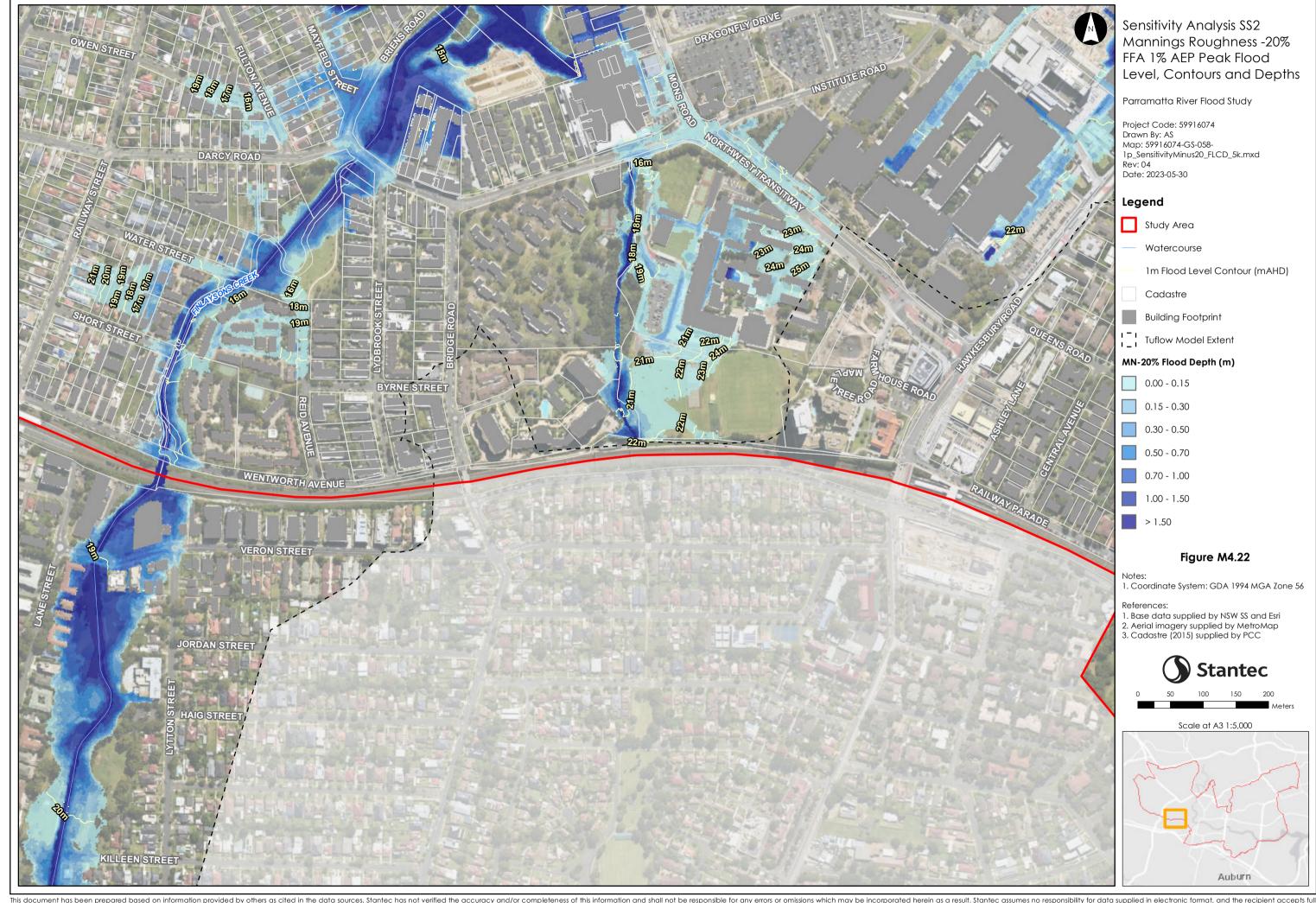
#### Figure M4.21

#### Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.22

#### 1. Coordinate System: GDA 1994 MGA Zone 56

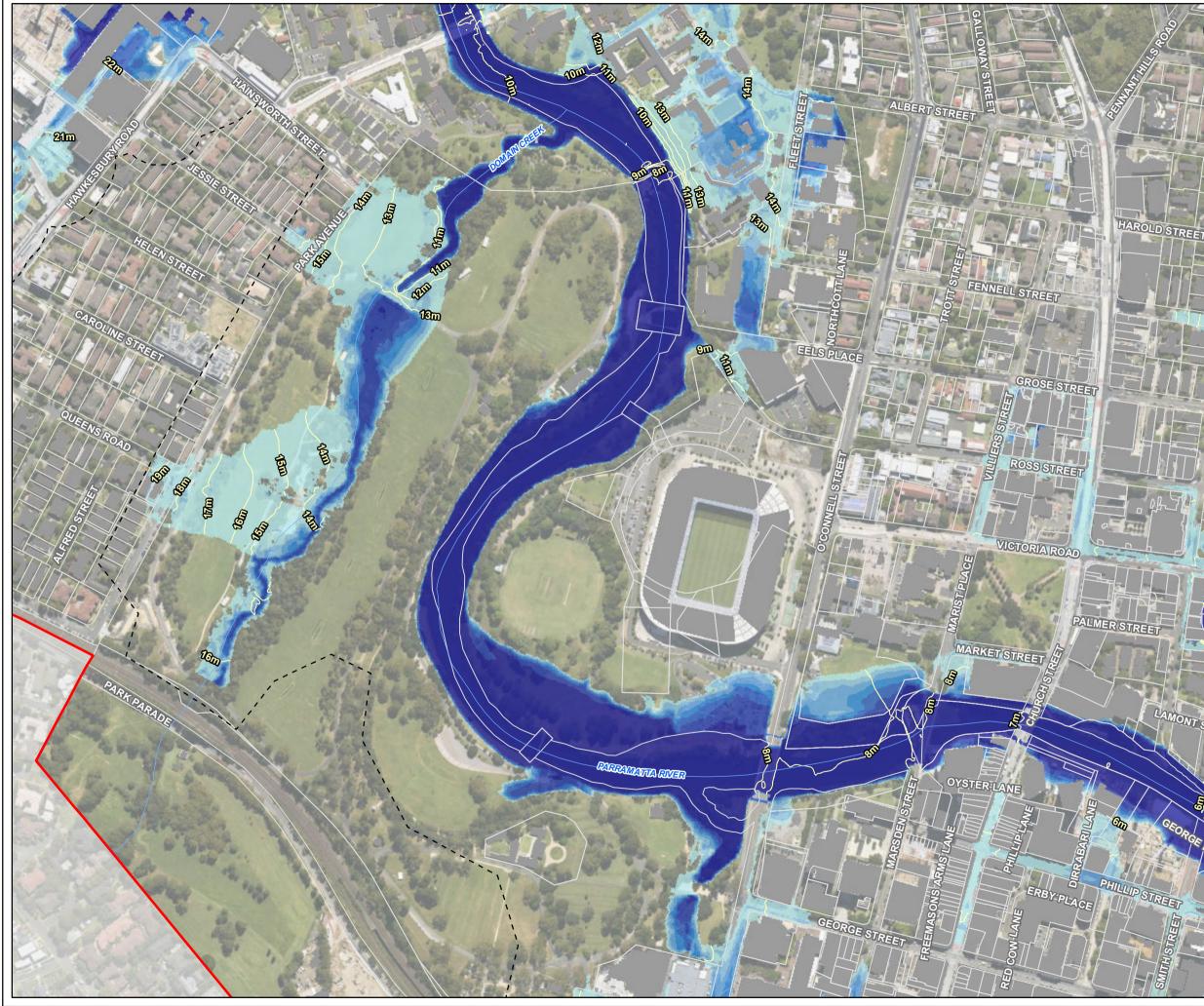
#### References:

Notes:

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Parramatta River Flood Study

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

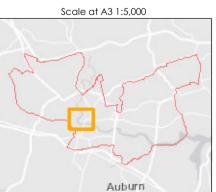
#### Figure M4.23

1. Coordinate System: GDA 1994 MGA Zone 56

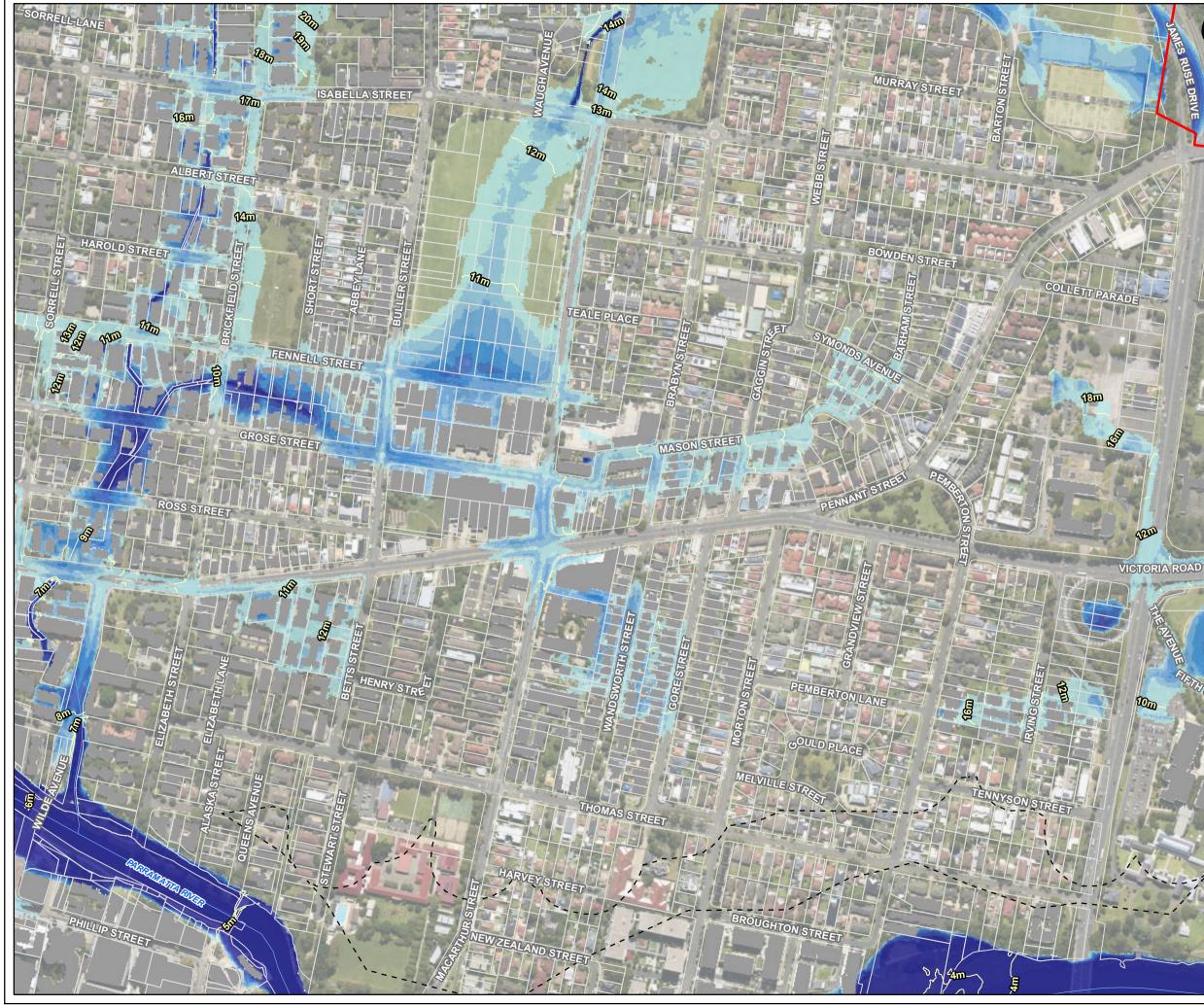
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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.24

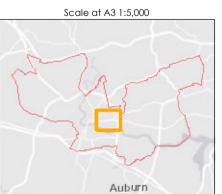
### 1. Coordinate System: GDA 1994 MGA Zone 56

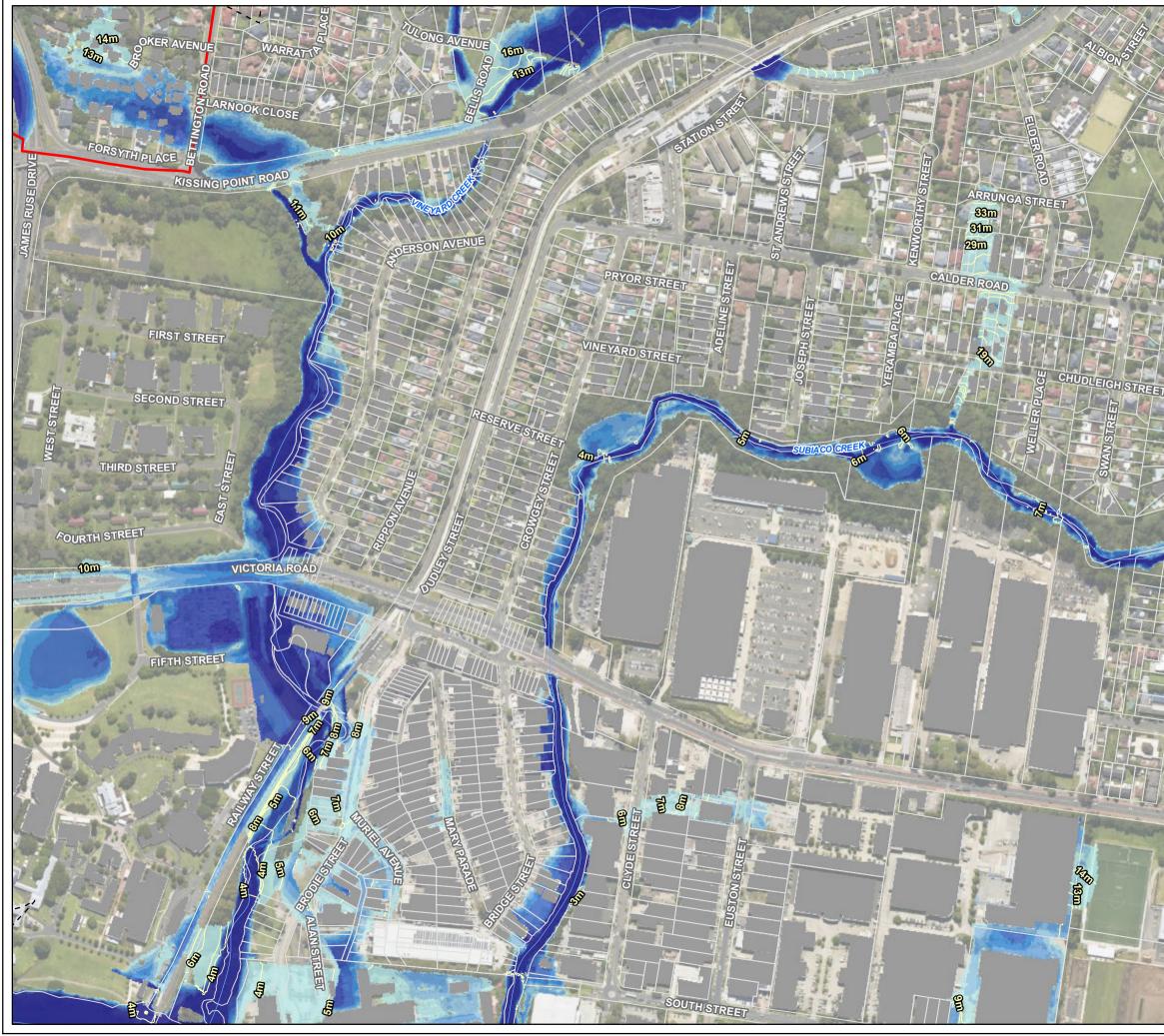
Notes:

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Parramatta River Flood Study

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#### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.25

I. Coordinate System: GDA 1994 MGA Zone 56

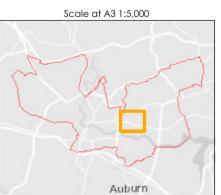
Notes:

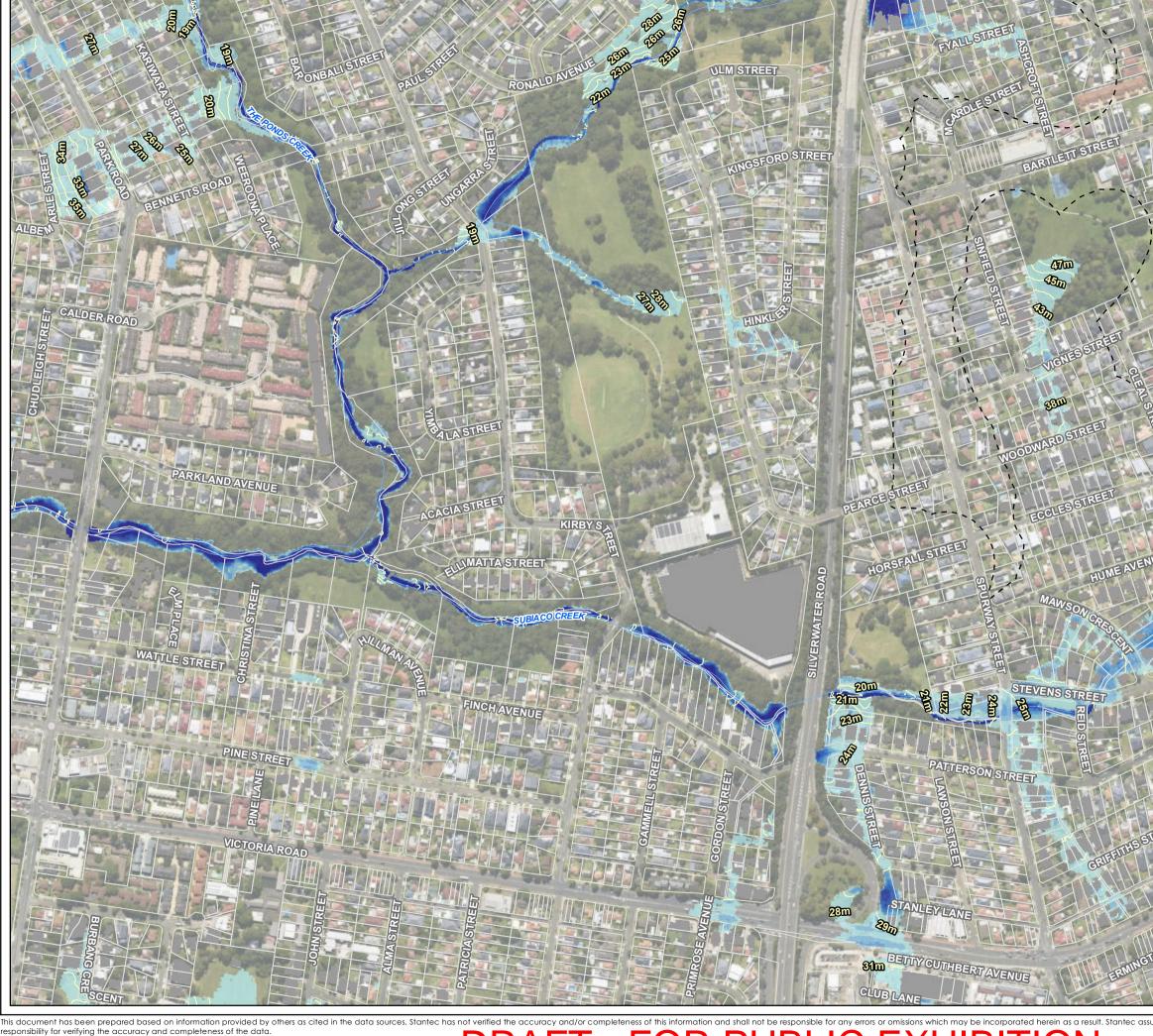
WATTLE STREET

PINESTREET

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### Sensitivity Analysis SS2 Mannings Roughness -20% FFA 1% AEP Peak Flood Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074 Drawn By: AS Map: 59916074-GS-058-1p\_SensitivityMinus20\_FLCD\_5k.mxd . Rev: 04 Date: 2023-05-30

#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.26

### . Coordinate System: GDA 1994 MGA Zone 56

#### References:

Notes:

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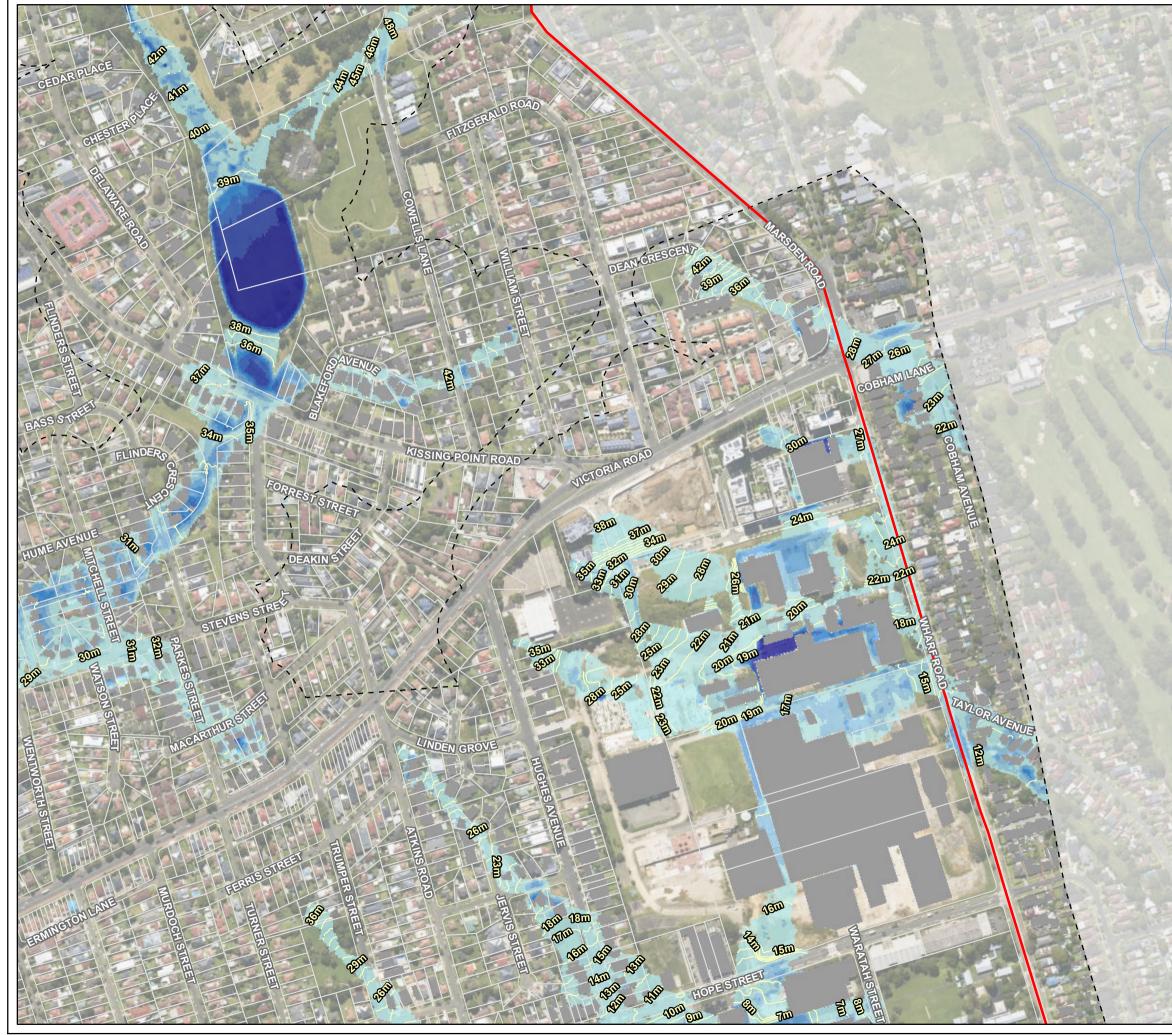
- Base data supplied by NSW SS and Esri
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Parramatta River Flood Study

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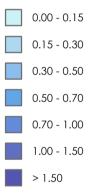
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	01004	/ O

- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent 1 1

#### MN-20% Flood Depth (m)



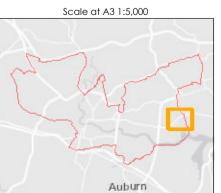
#### Figure M4.27

Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

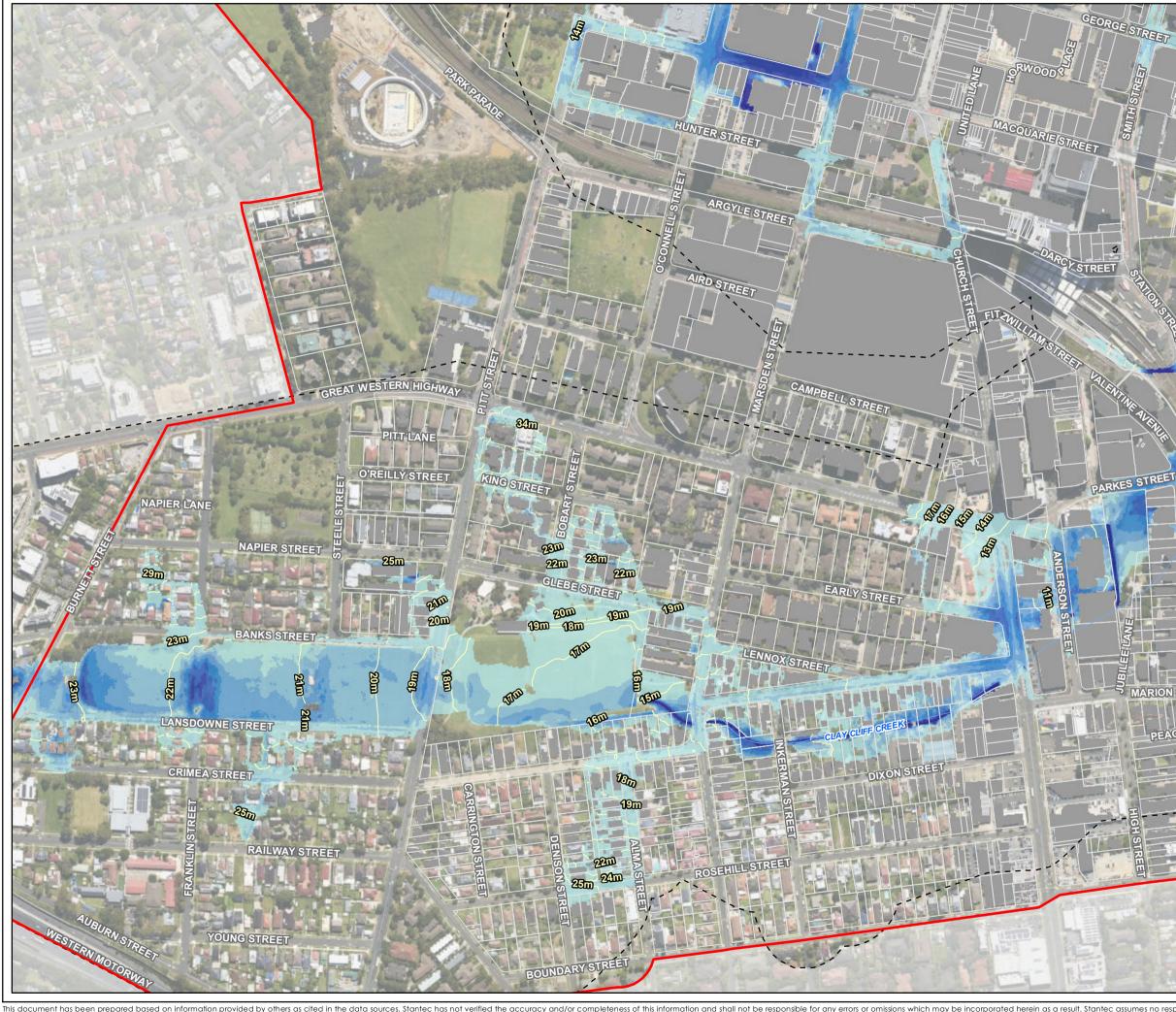
#### References:

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Parramatta River Flood Study

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.28

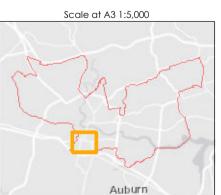
1. Coordinate System: GDA 1994 MGA Zone 56

Notes:

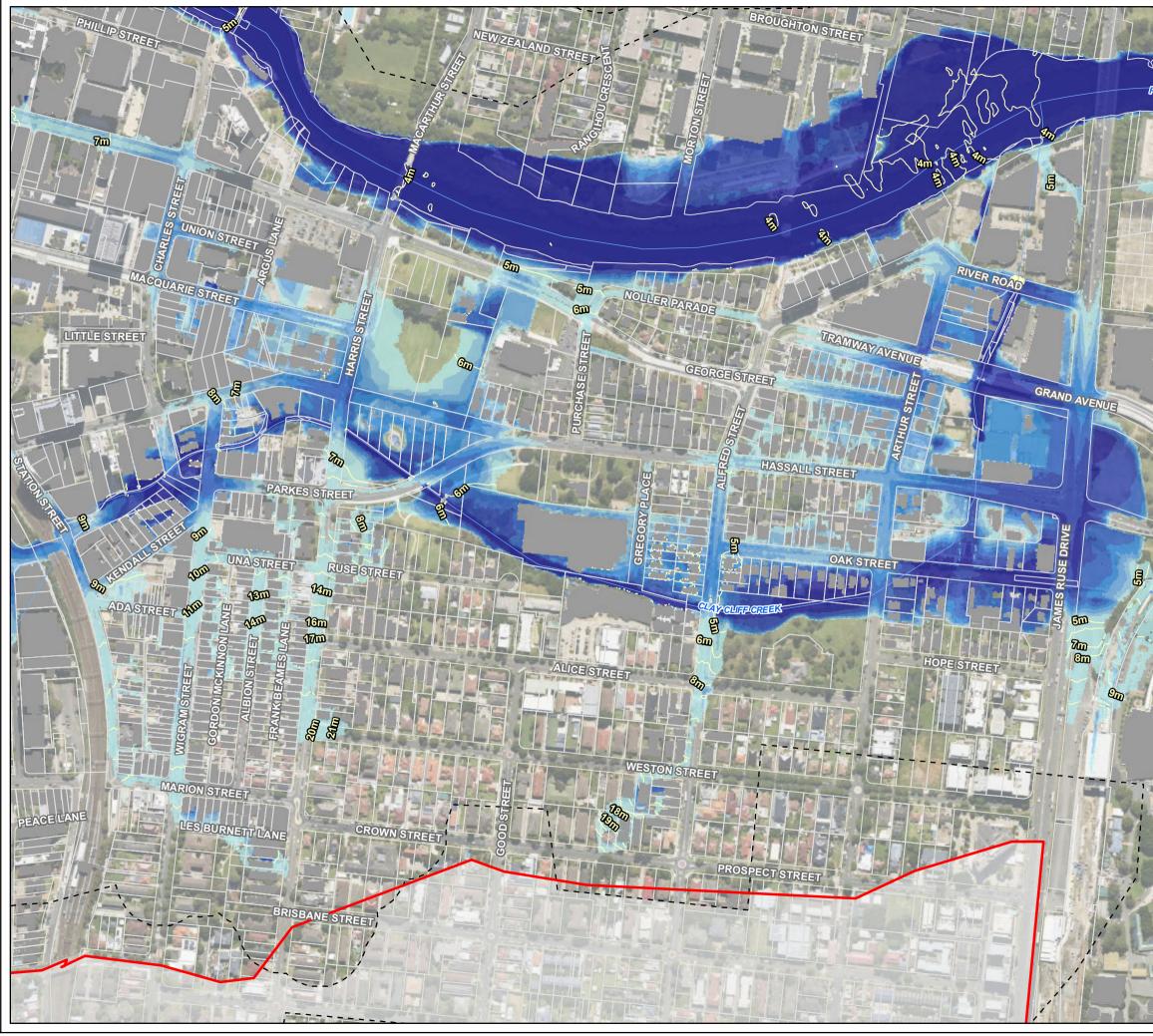
MARION STREET

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

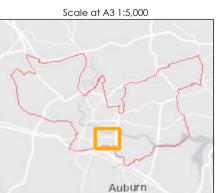
0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

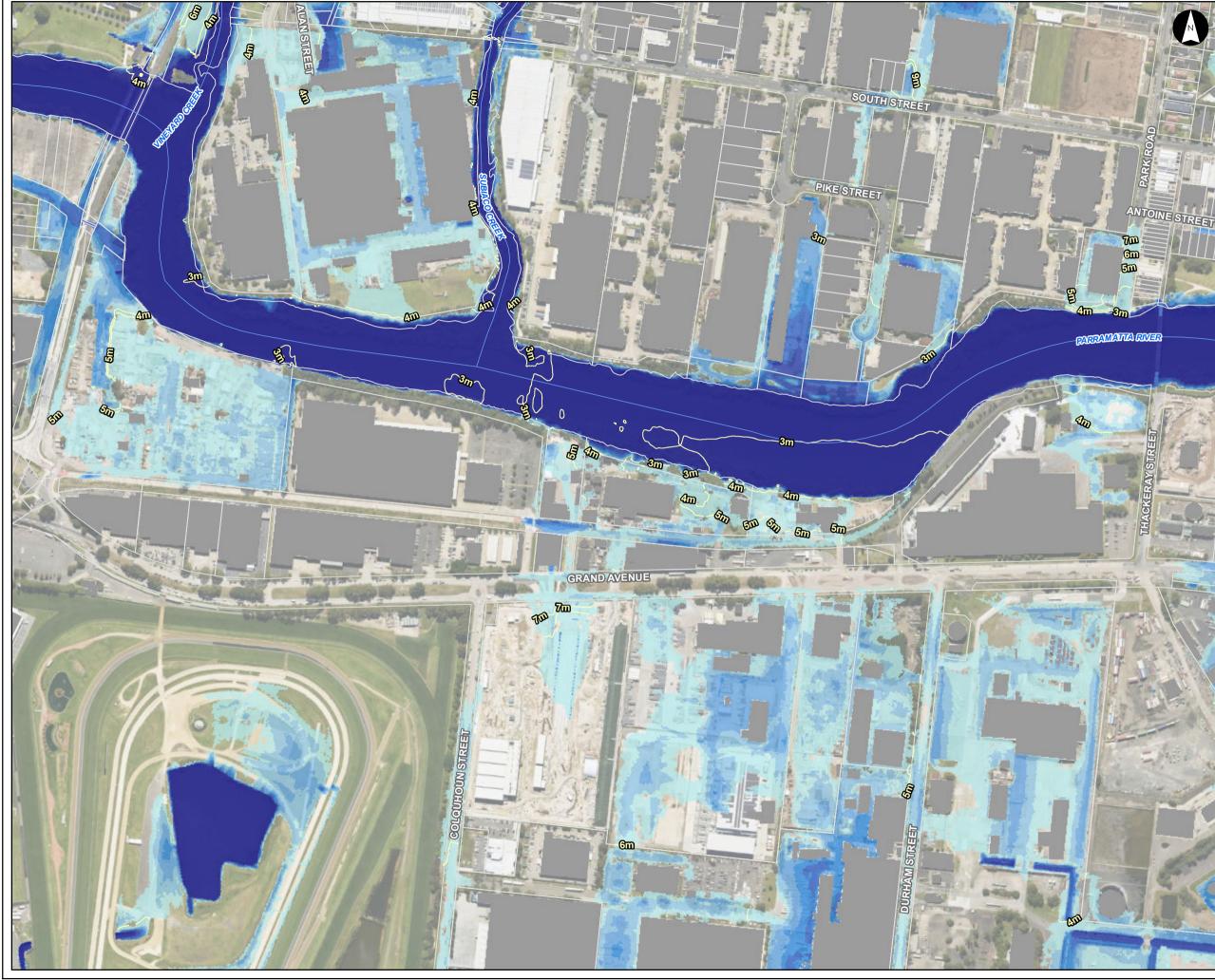
#### Figure M4.29

#### Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

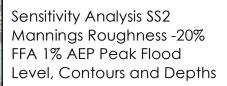
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Parramatta River Flood Study

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#### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
- Building Footprint
- 1 1 1 \_ 1 Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.30

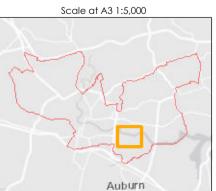
#### 1. Coordinate System: GDA 1994 MGA Zone 56

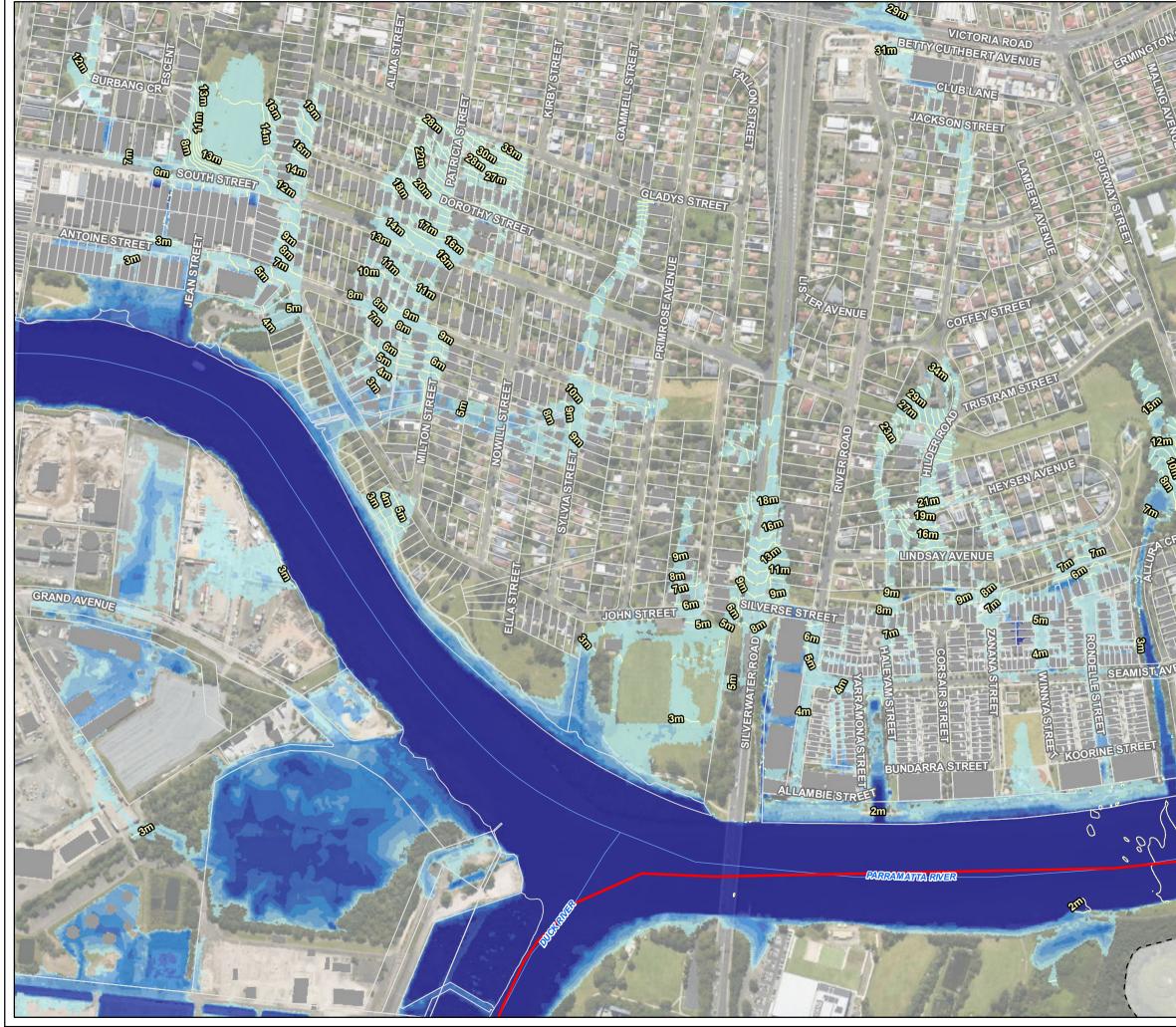
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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.31

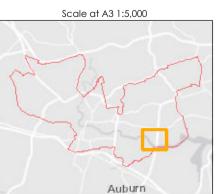
#### Notes: I. Coordinate System: GDA 1994 MGA Zone 56

#### References:

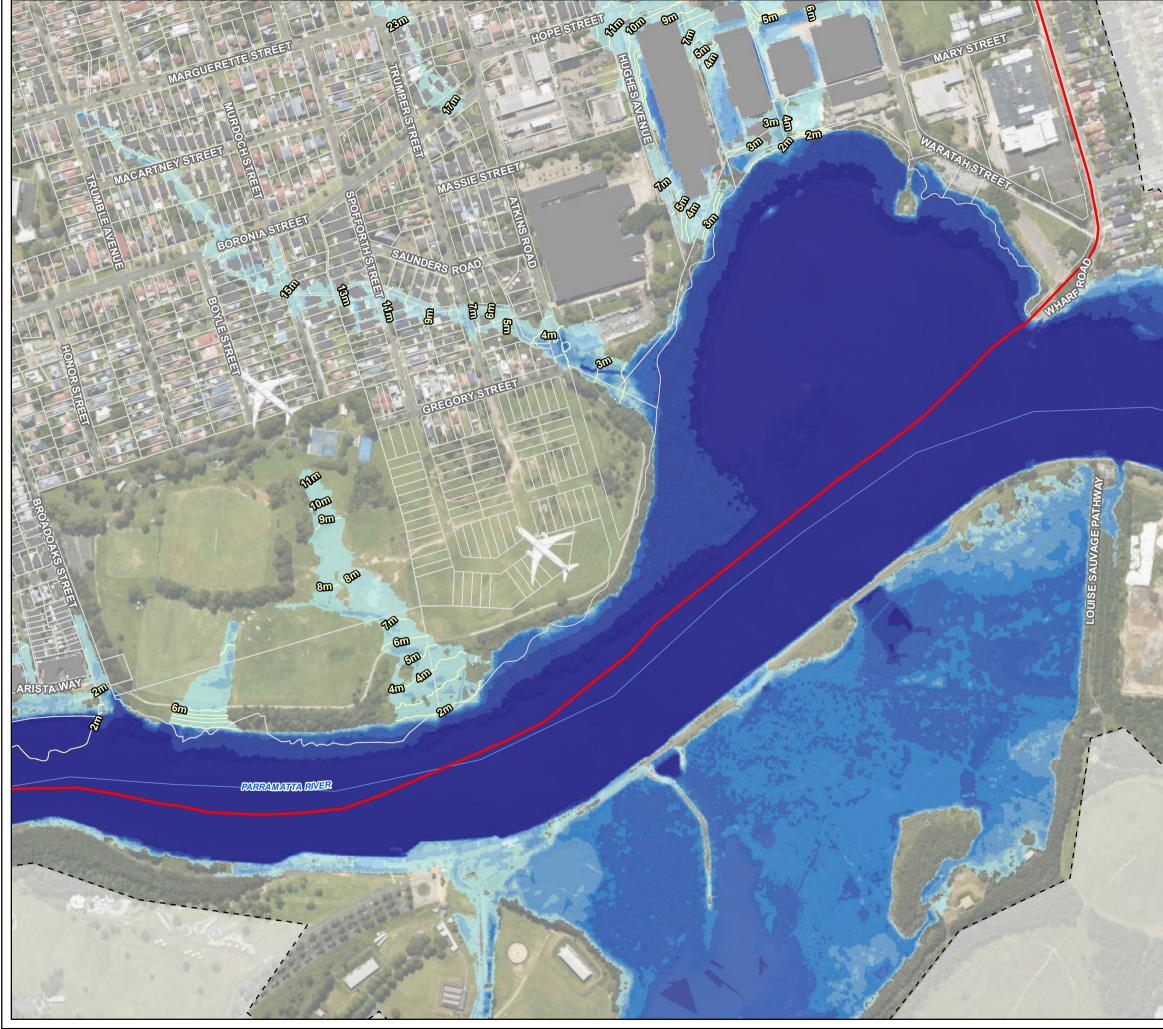
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Parramatta River Flood Study

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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.32

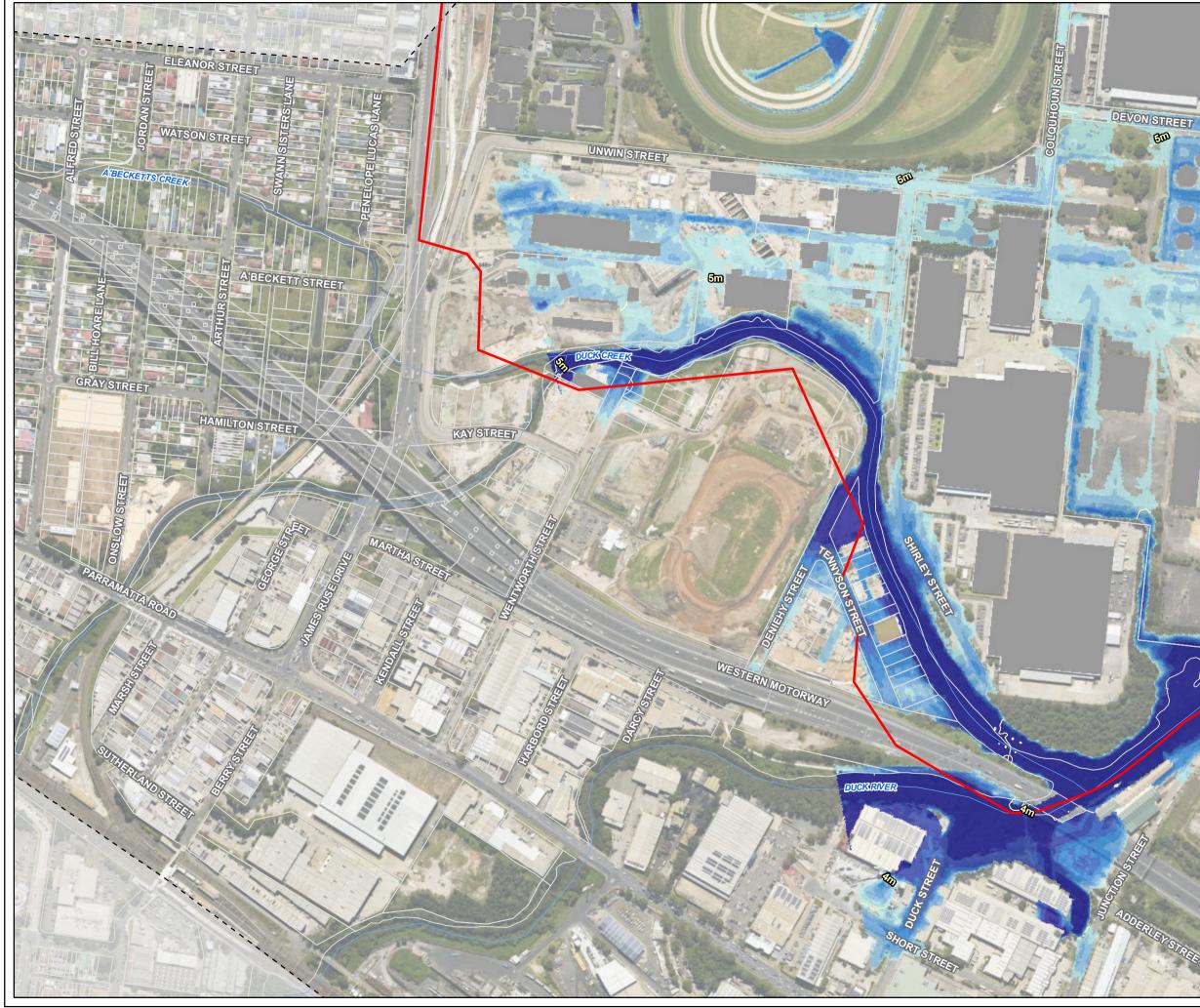
### 1. Coordinate System: GDA 1994 MGA Zone 56

Notes:

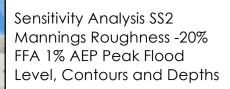
- References:
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#### Legend

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- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

#### Figure M4.33

1. Coordinate System: GDA 1994 MGA Zone 56

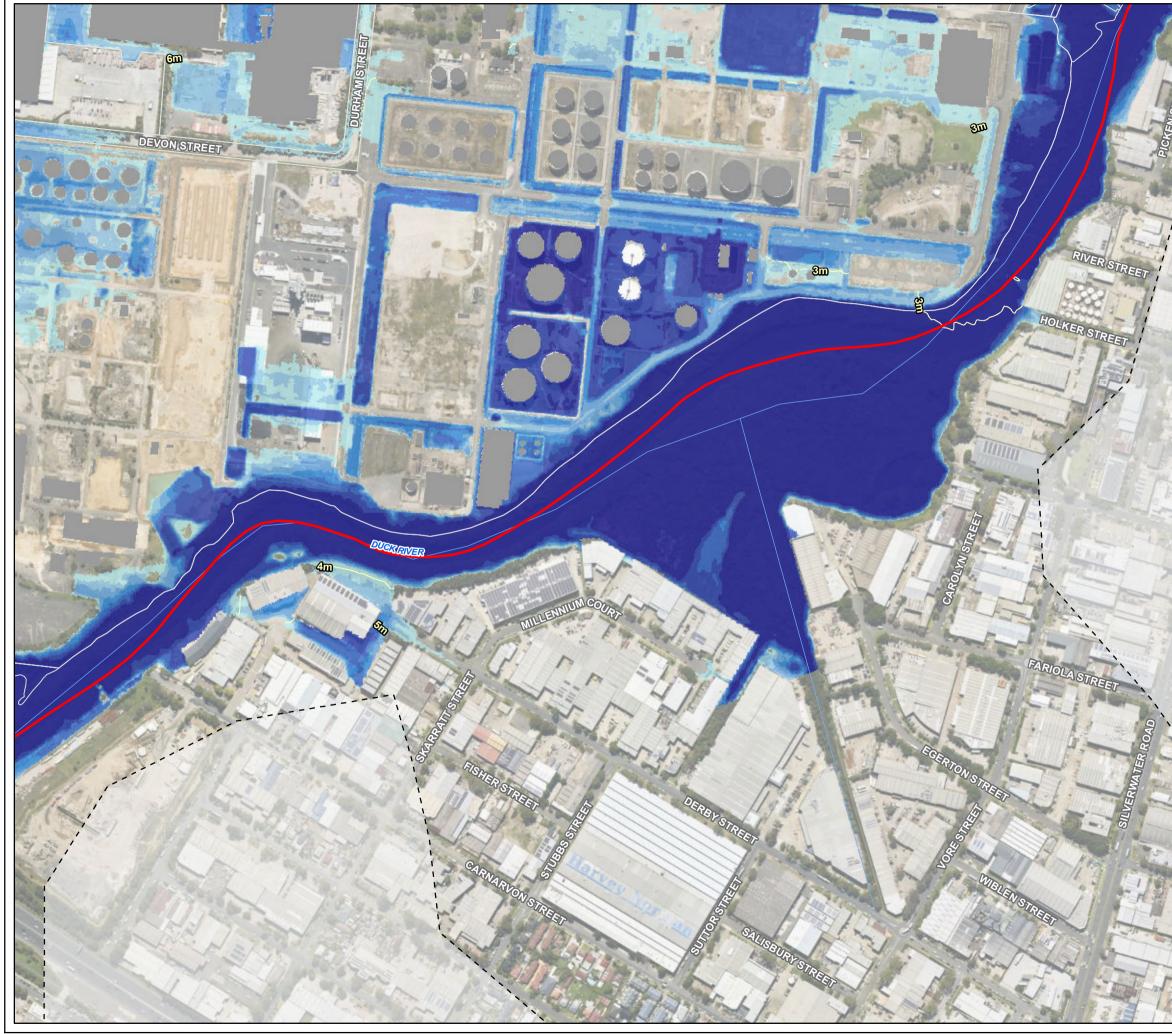
Notes:

- References:
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#### Legend

- Study Area
  - Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent I = I

#### MN-20% Flood Depth (m)

0.00 - 0.15 0.15 - 0.30 0.30 - 0.50 0.50 - 0.70 0.70 - 1.00 1.00 - 1.50 > 1.50

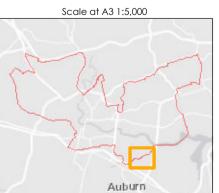
#### Figure M4.34

Notes: 1. Coordinate System: GDA 1994 MGA Zone 56

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