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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

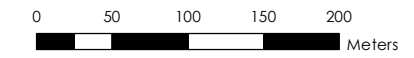
MN-20% Flood Depth (m)

- 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 M4.1

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

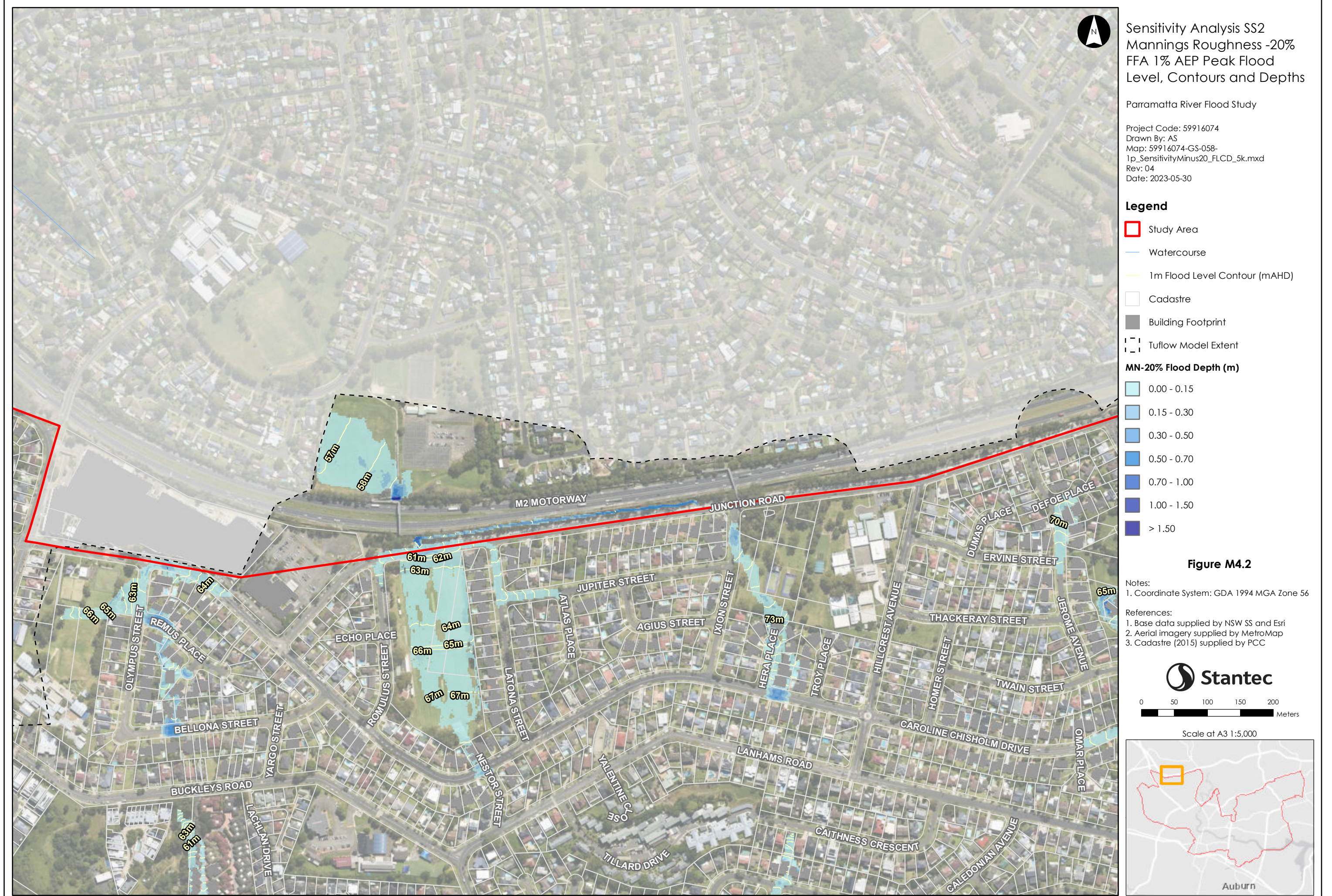
References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
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Scale at A3 1:5,000



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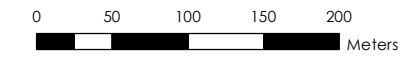
MN-20% Flood Depth (m)

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

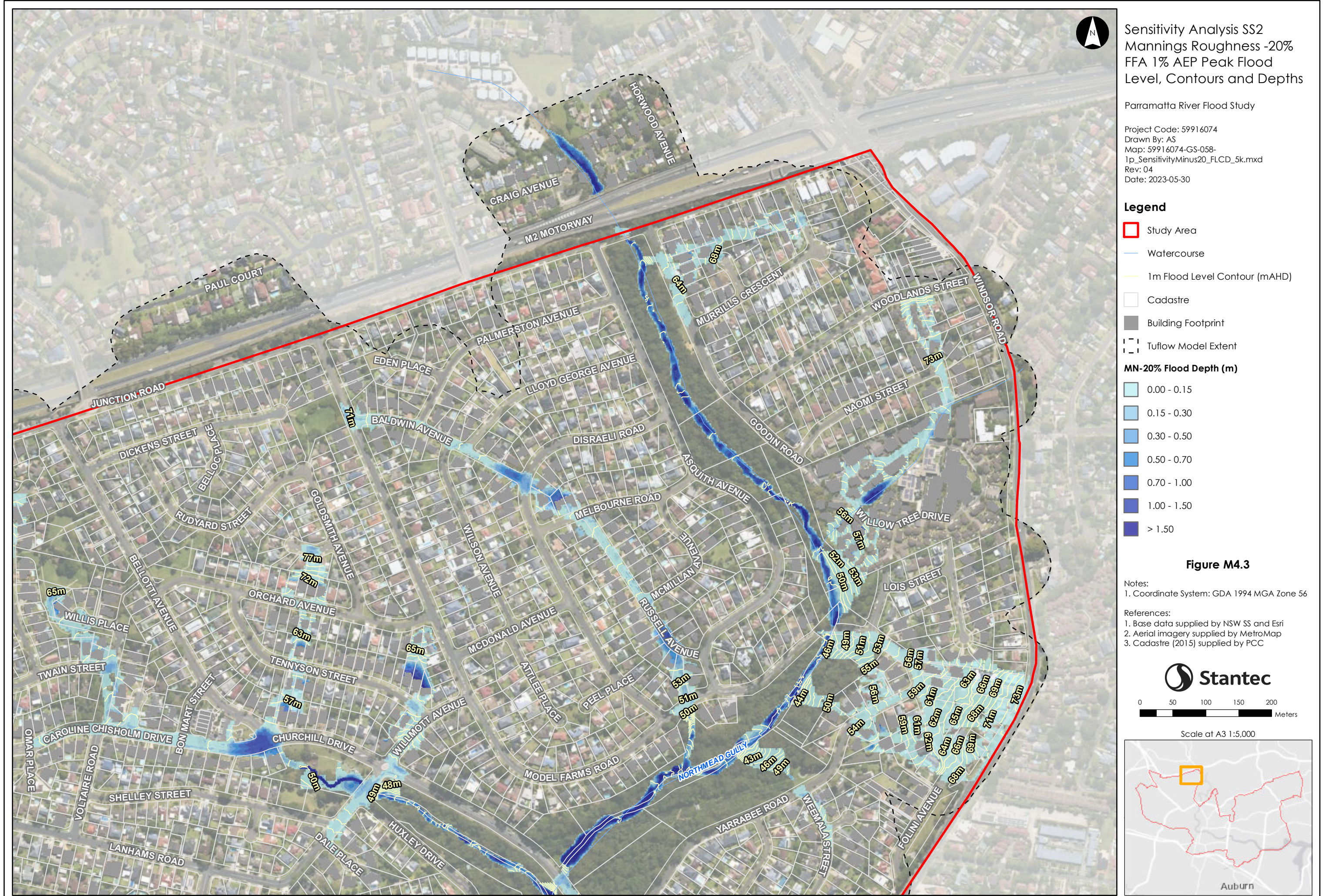
- References:
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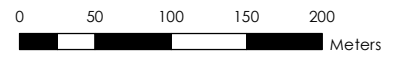
Legend

- Study Area
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 - 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 M4.3

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

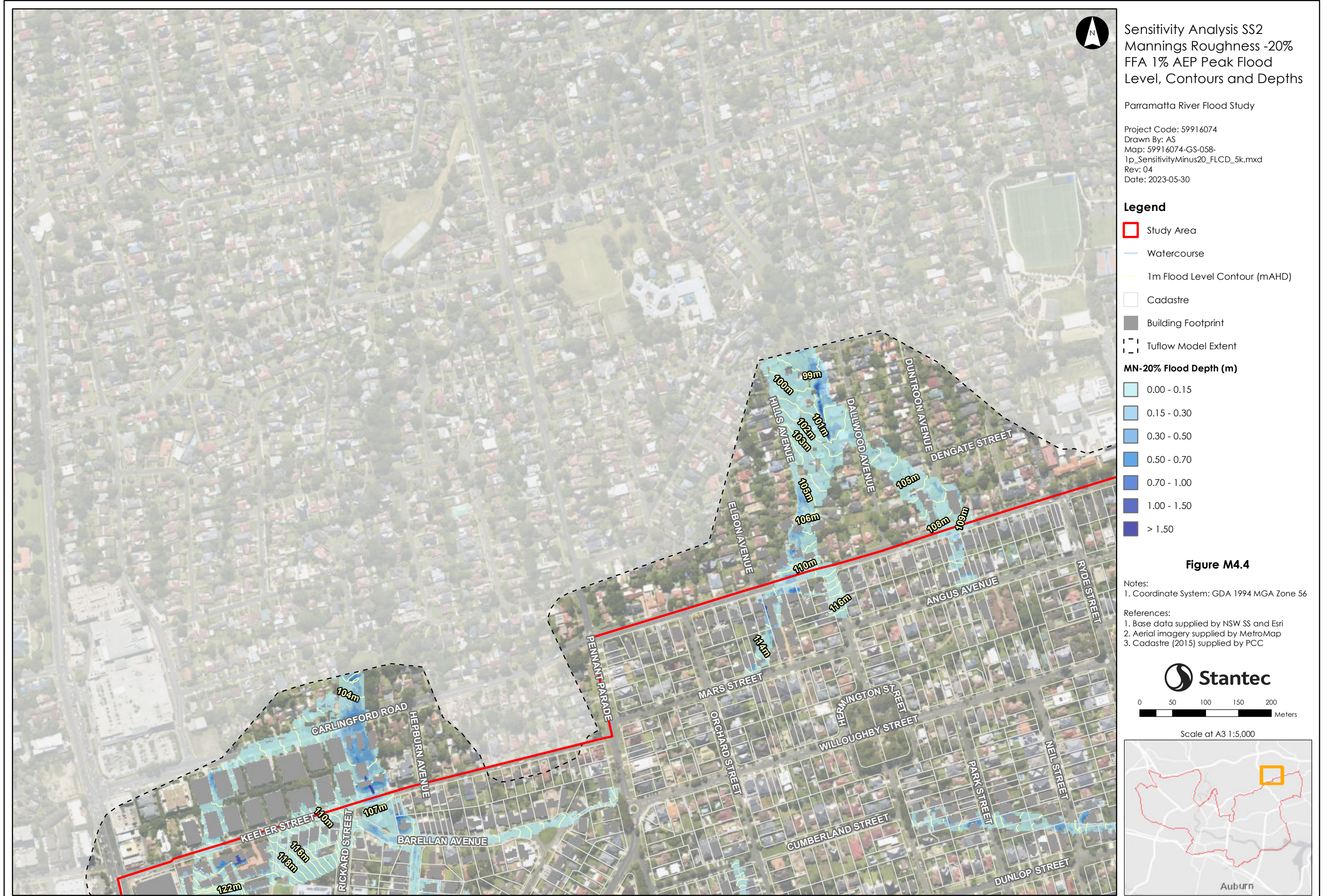
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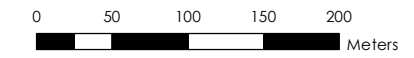
MN-20% Flood Depth (m)

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- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

Figure M4.4

Notes:
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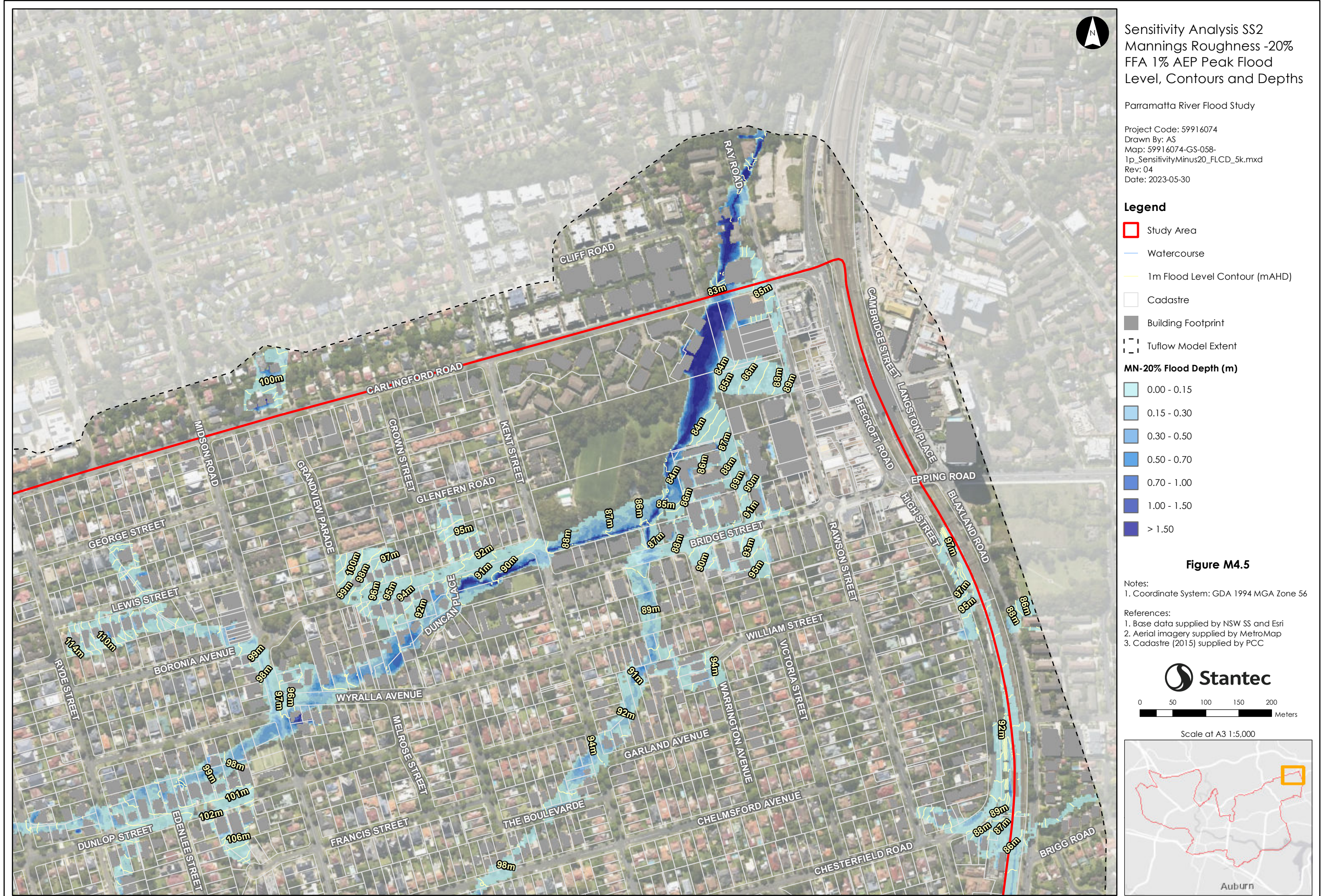
References:
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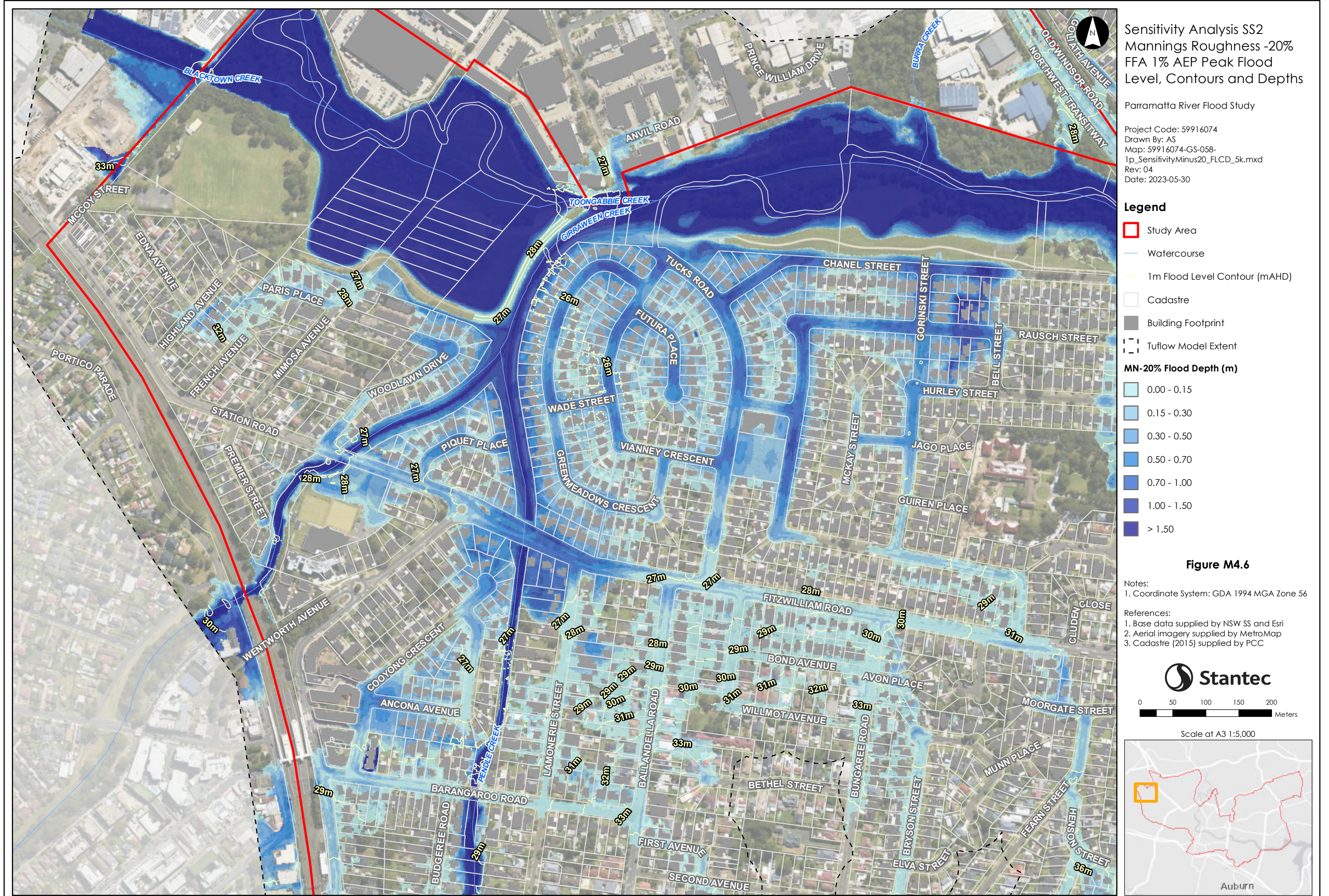
Scale at A3 1:5,000



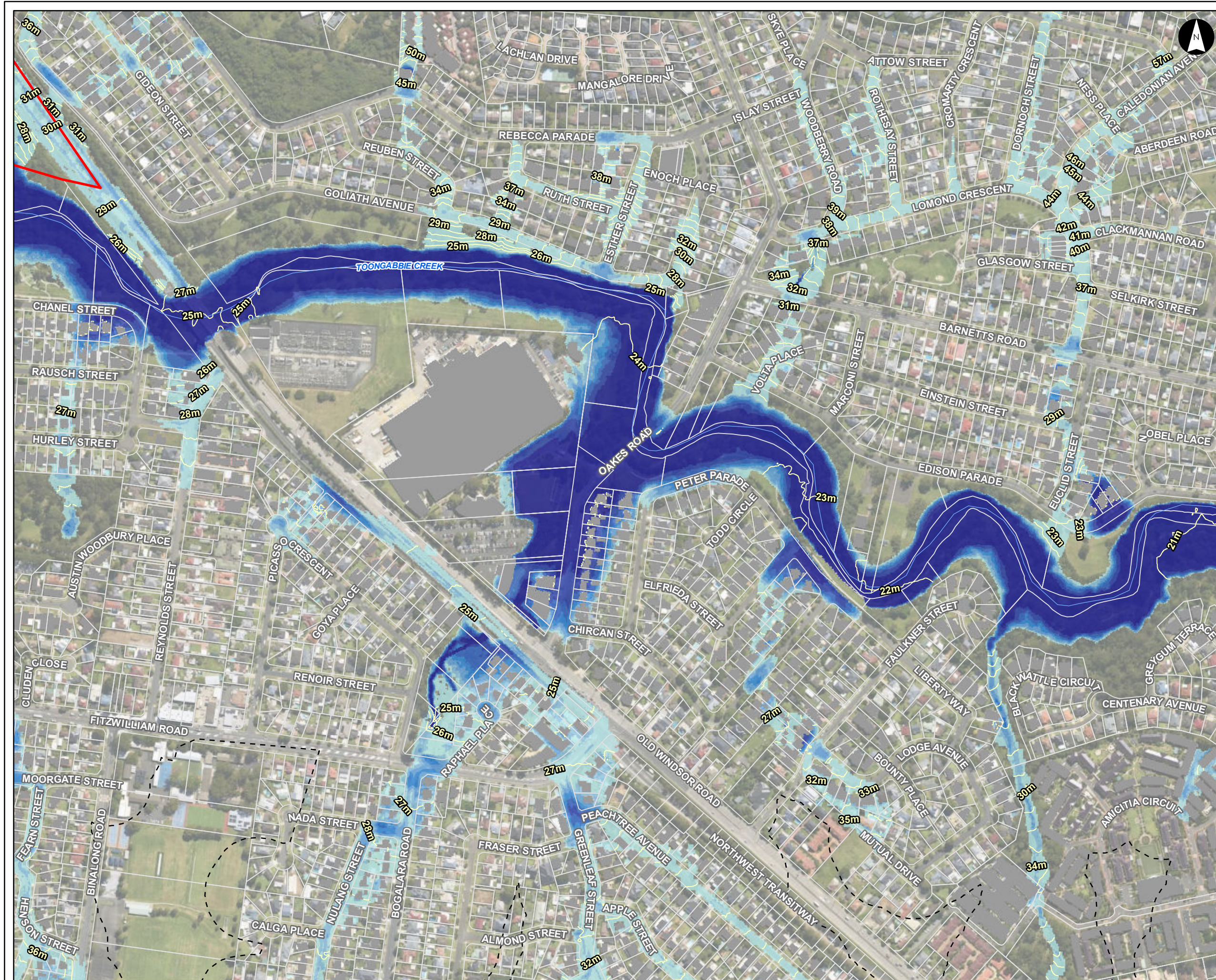
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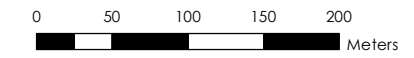
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- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

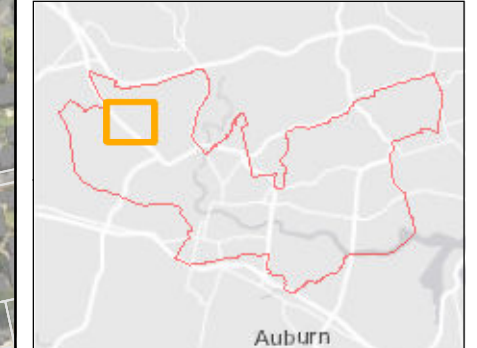
Figure M4.7

Notes:
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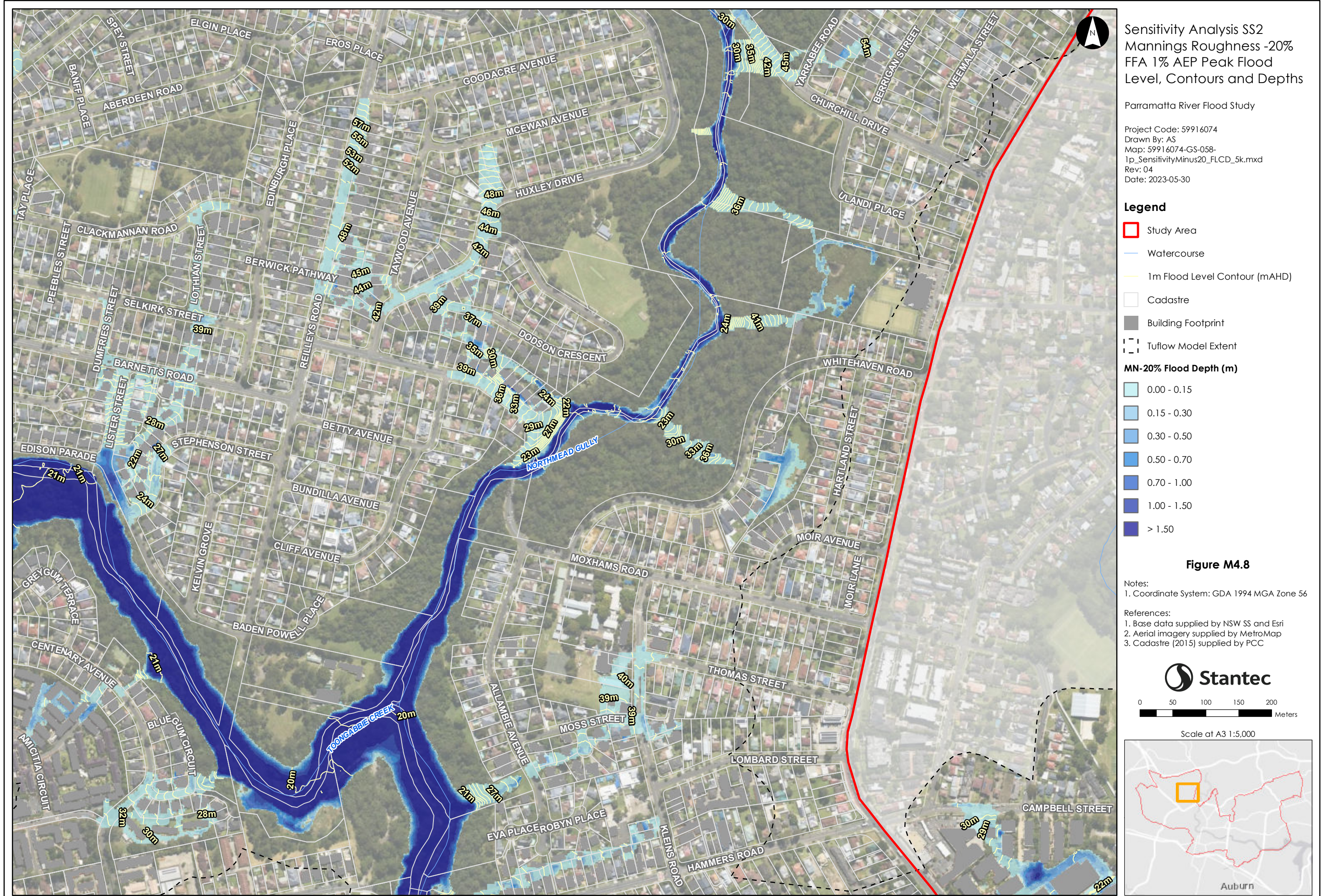
References:
 1. Base data supplied by NSW SS and Esri
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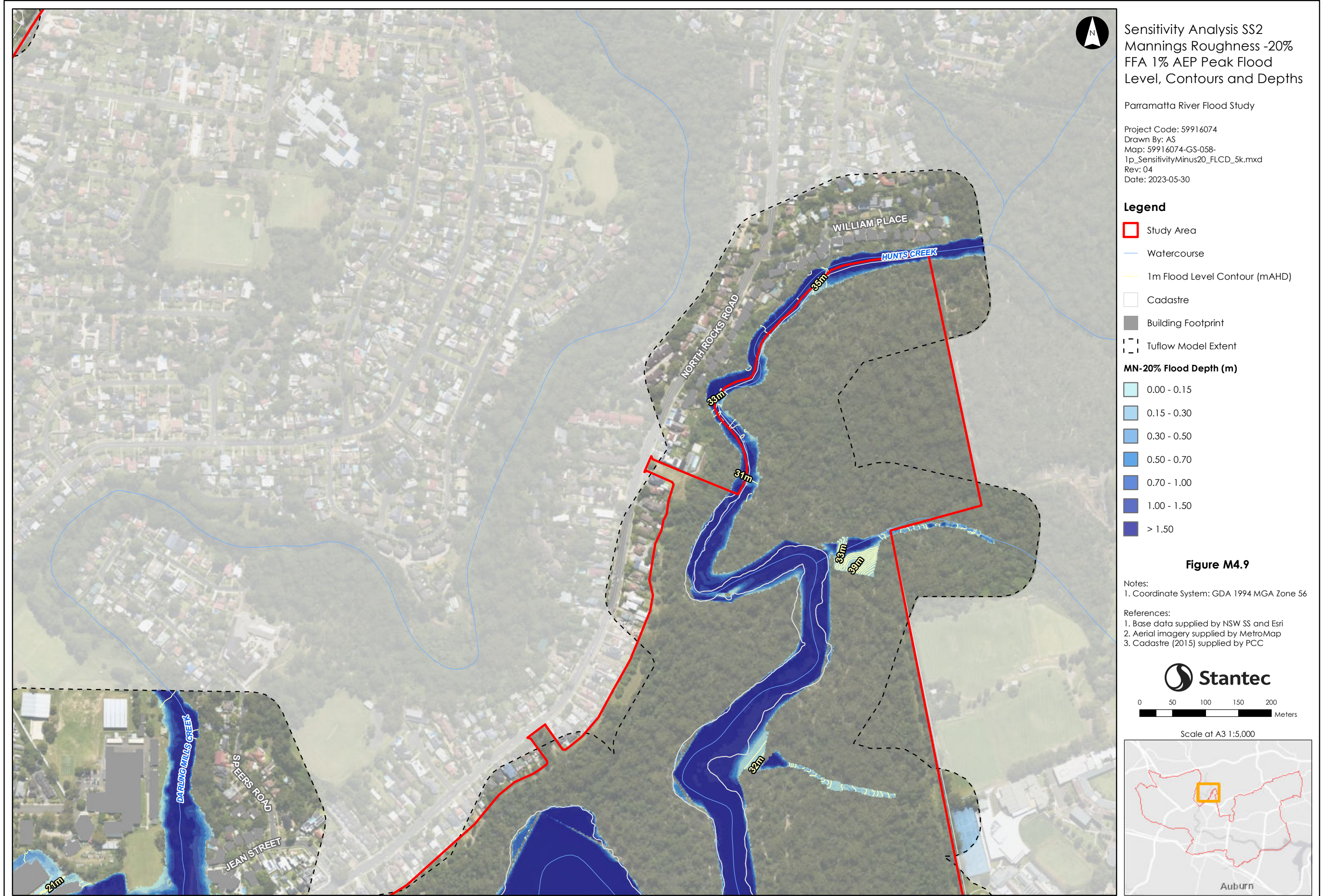
Scale at A3 1:5,000



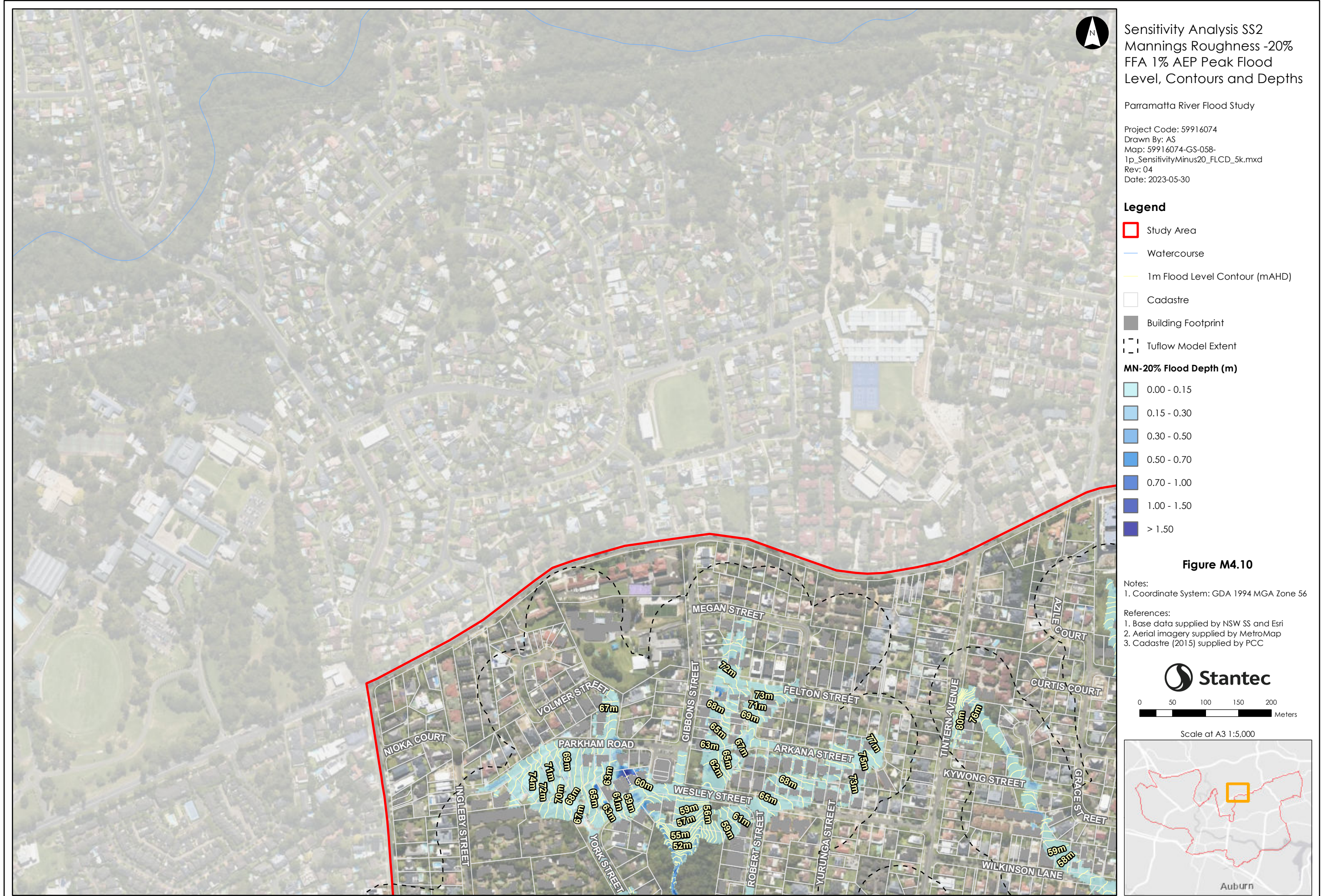
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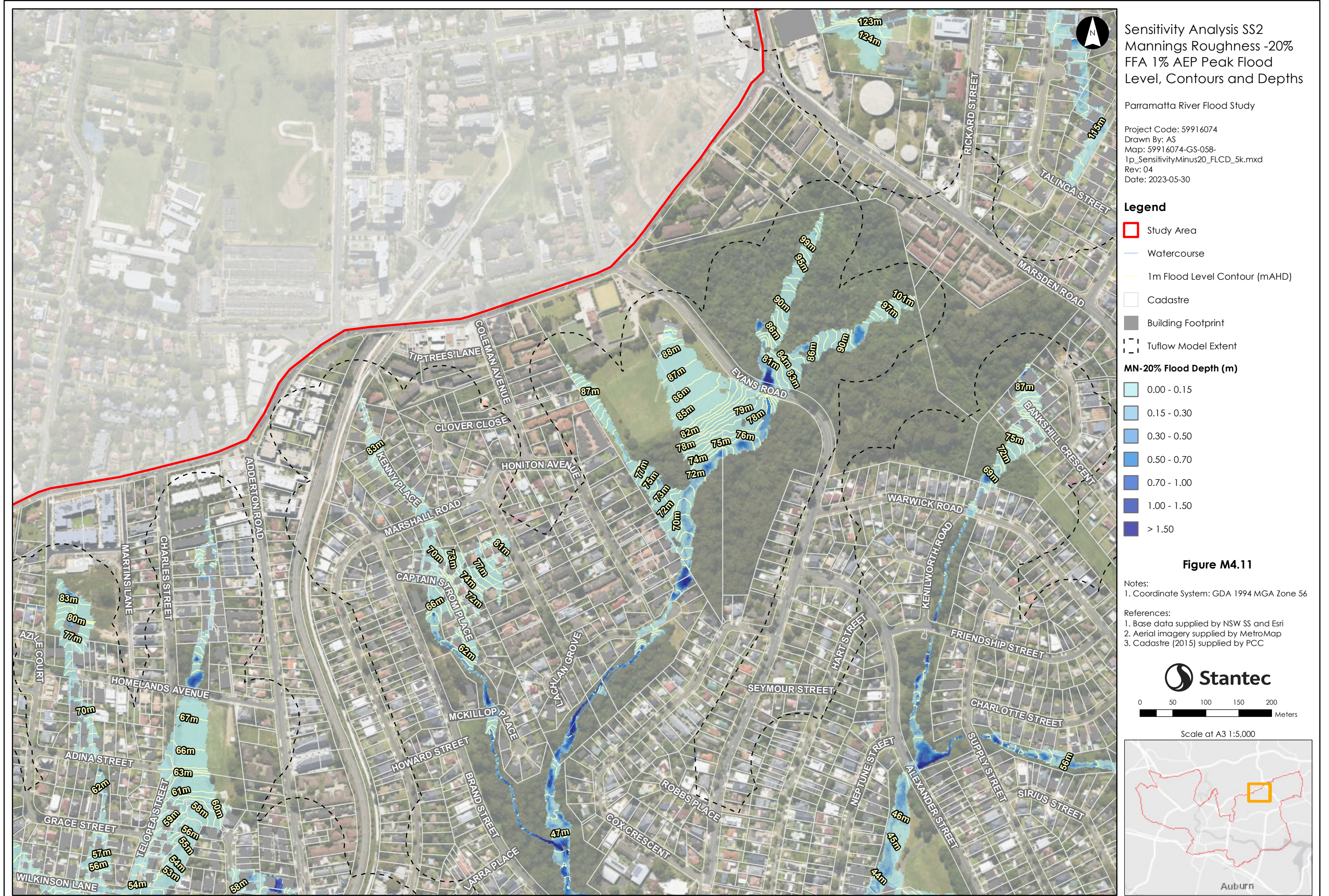
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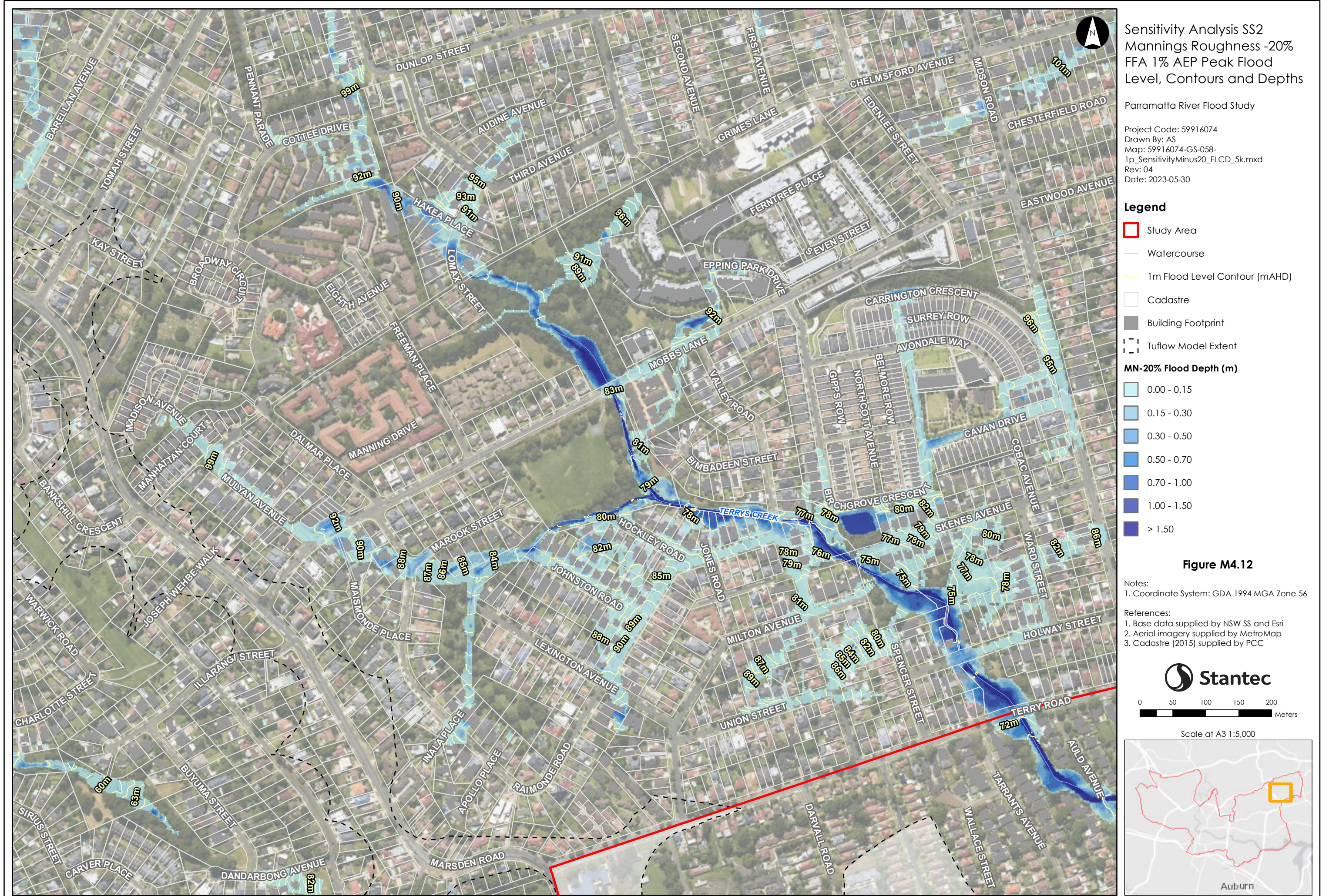
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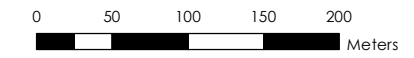
MN-20% Flood Depth (m)

- 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 M4.12

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

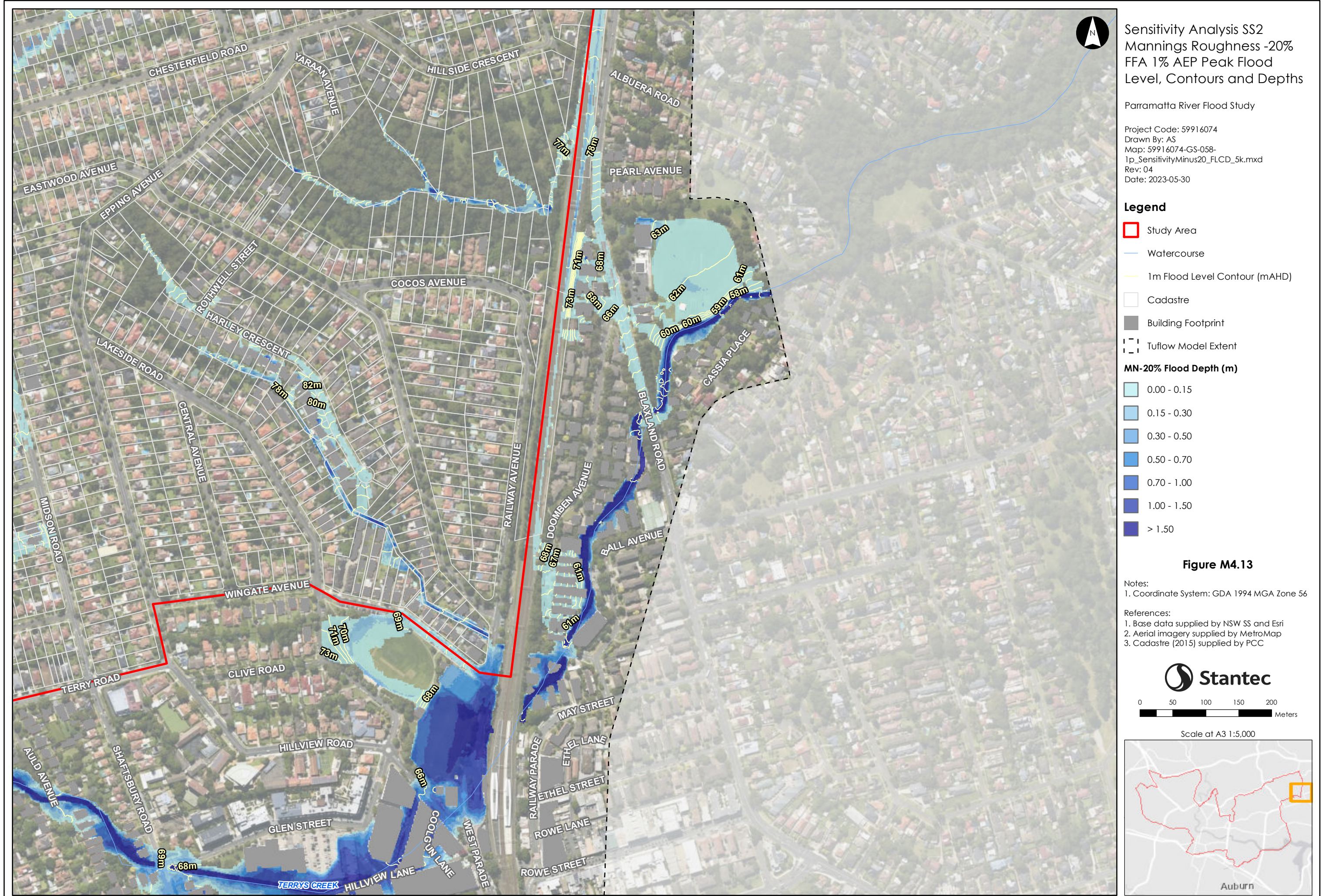
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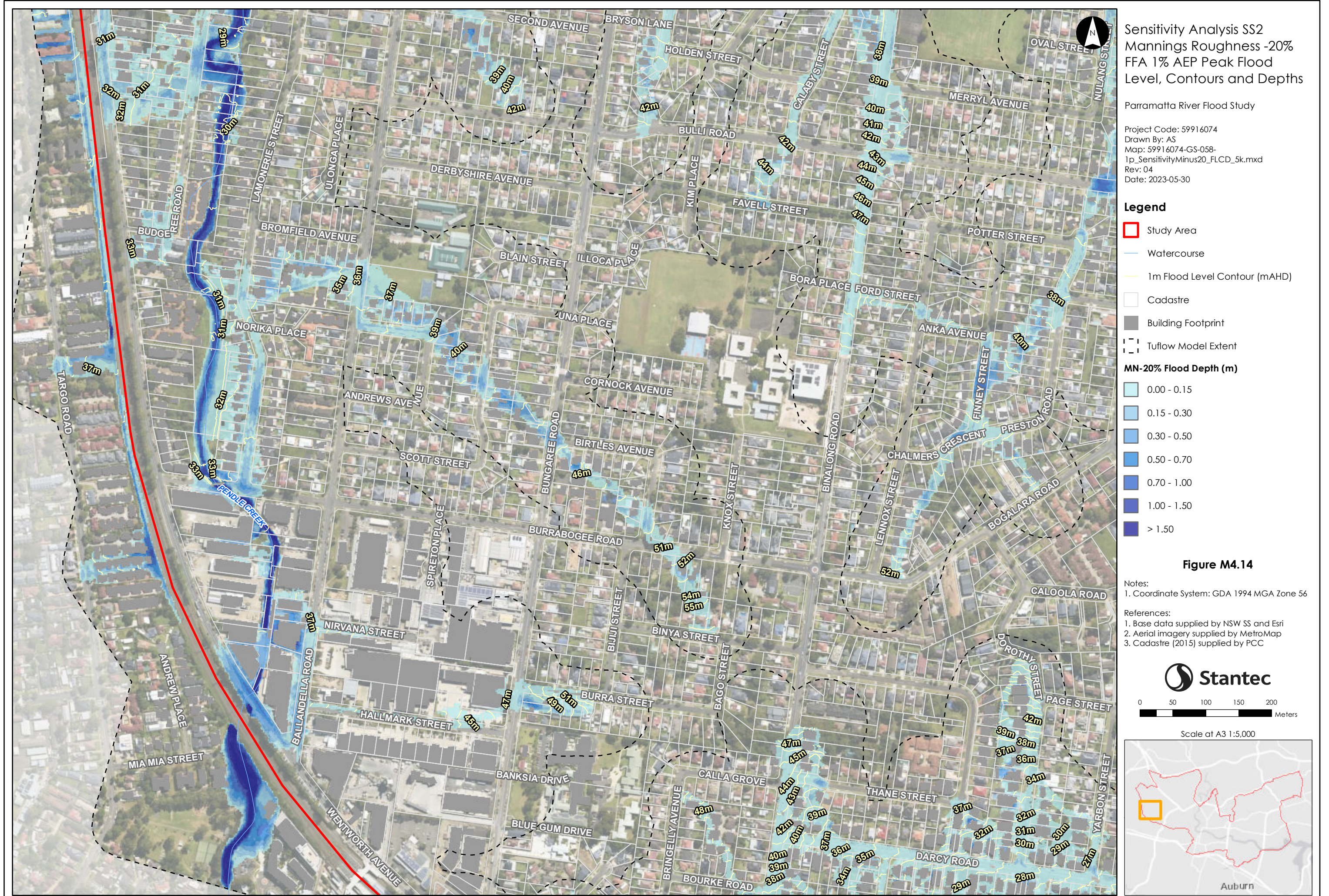
Scale at A3 1:5,000



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Legend

- Study Area
- Watercourse
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- 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

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

References:
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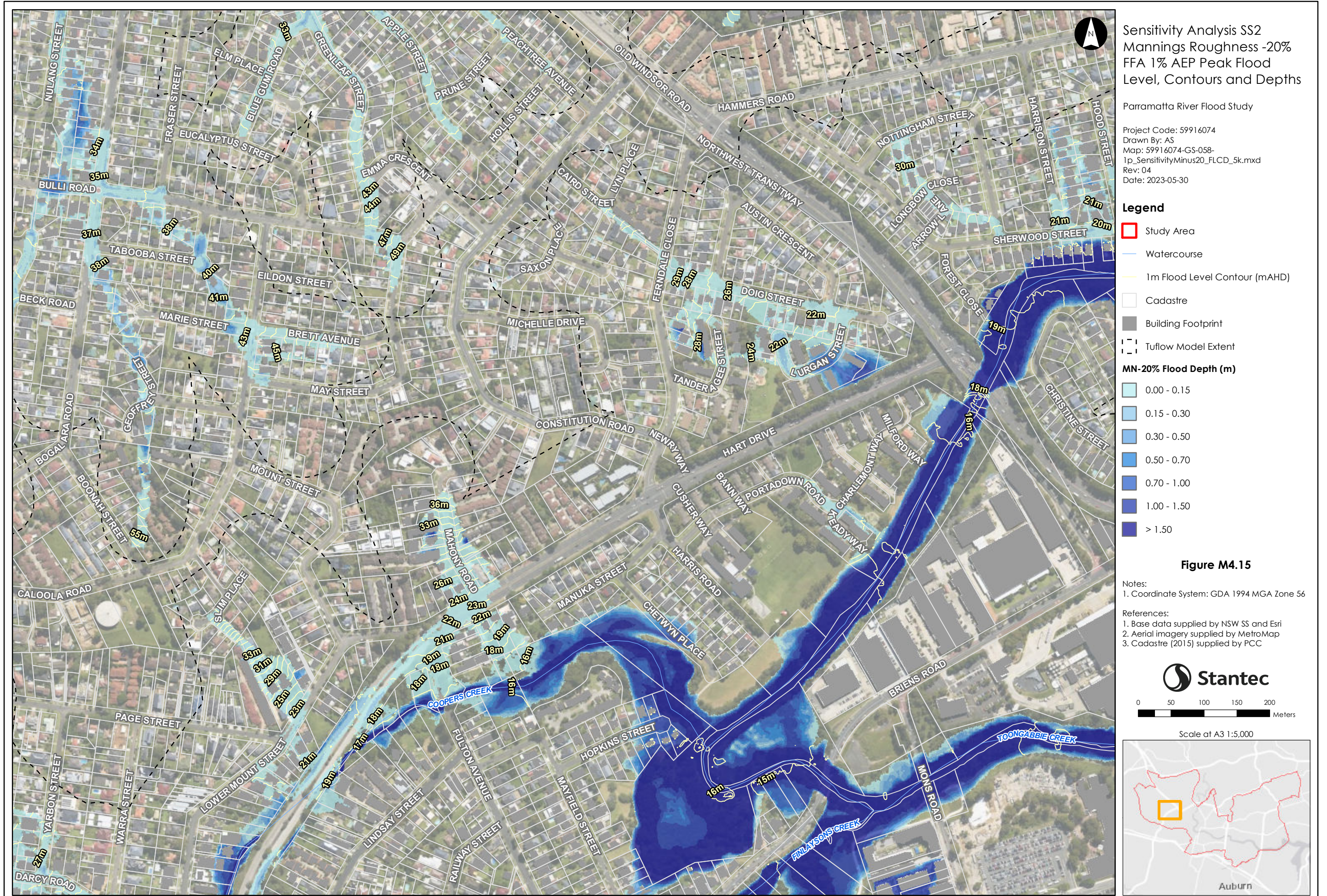


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Meters

Scale at A3 1:5,000



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- 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

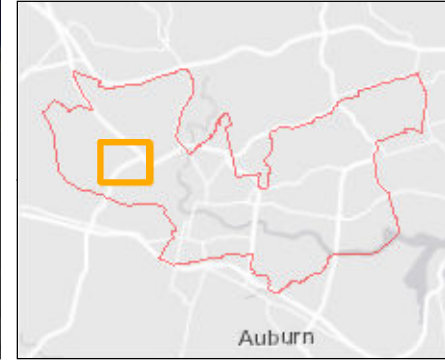
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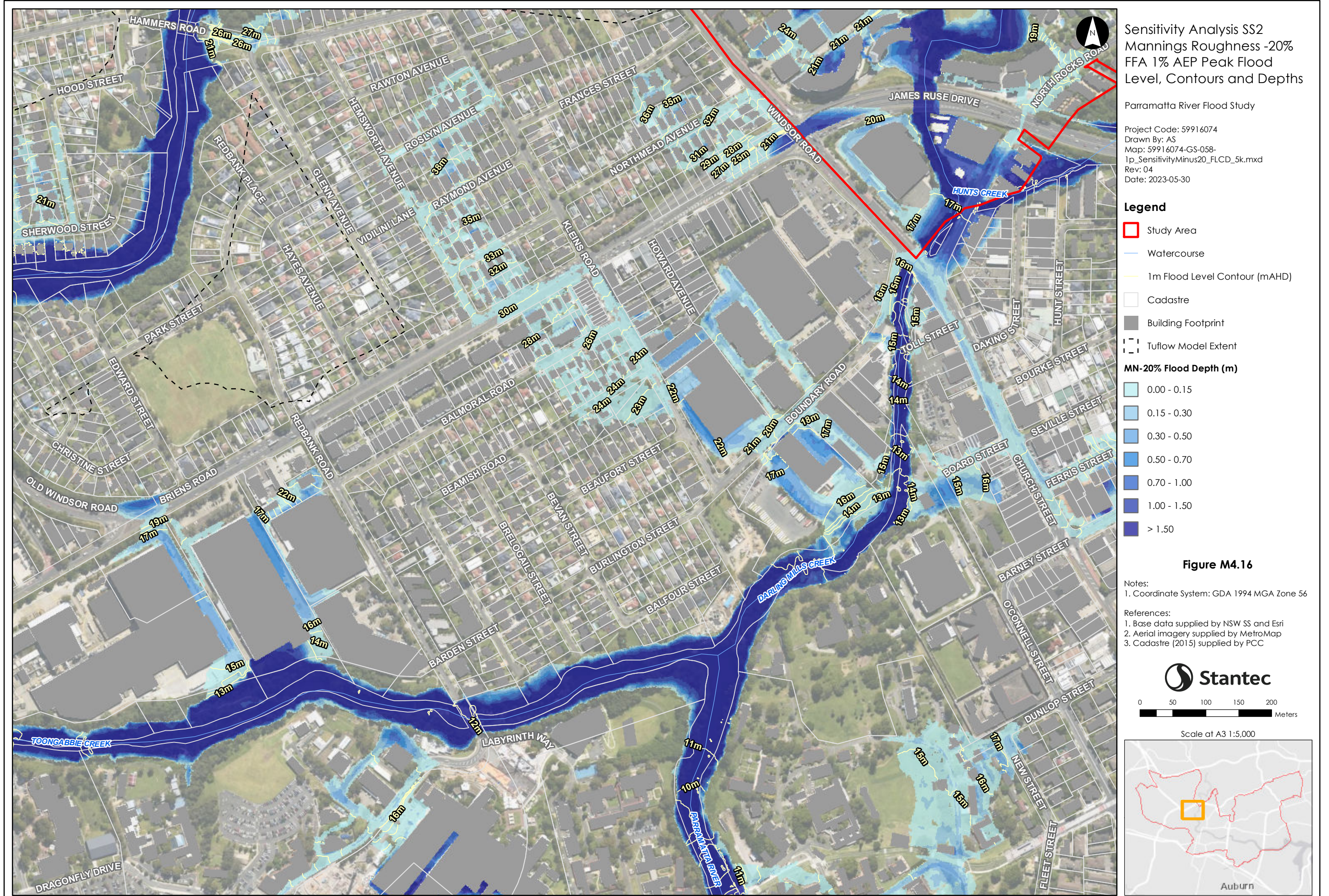
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Meters

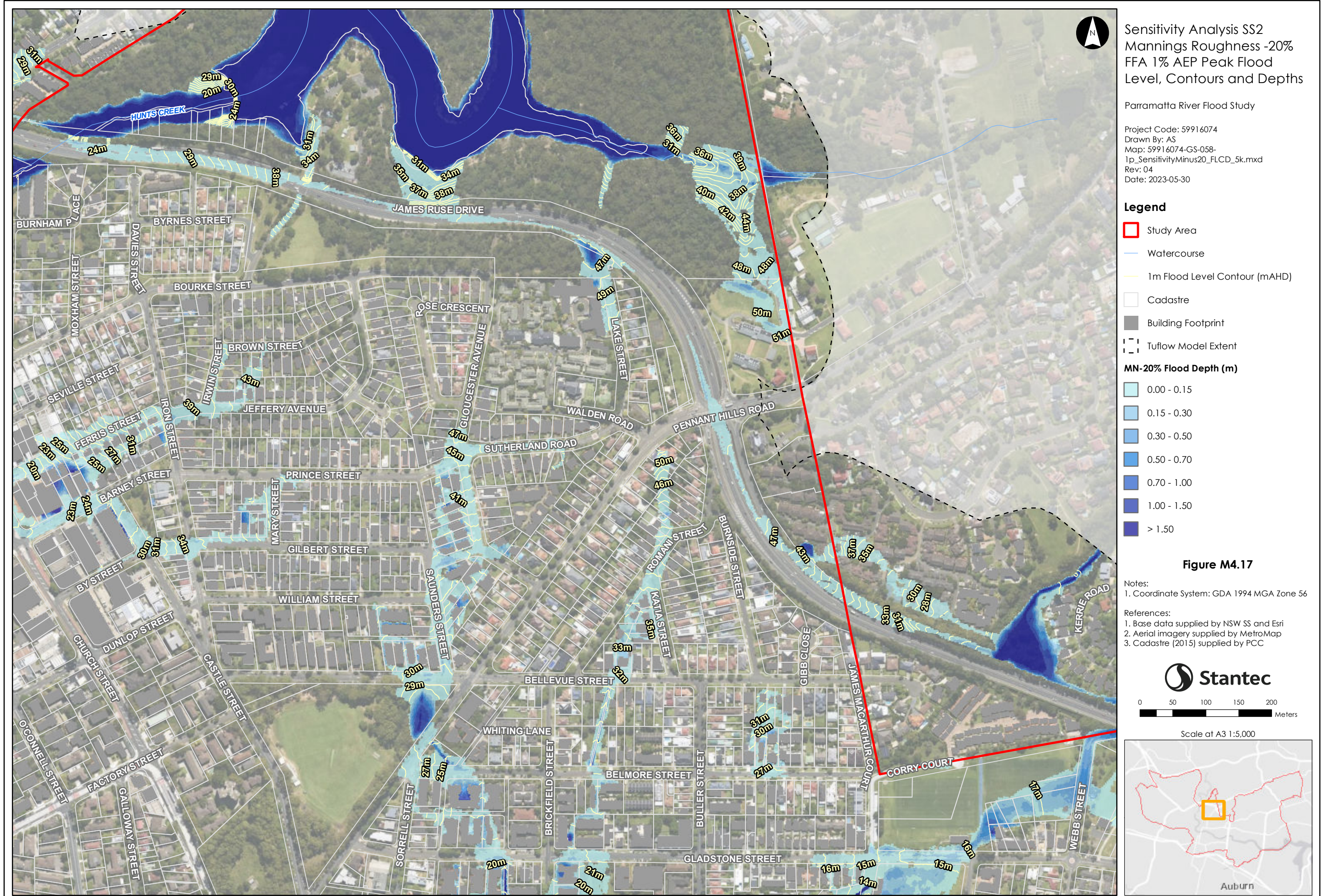
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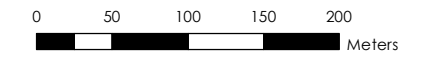
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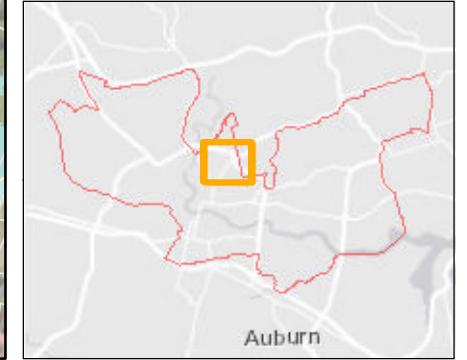
- Study Area
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- 0.00 - 0.15
 - 0.15 - 0.30
 - 0.30 - 0.50
 - 0.50 - 0.70
 - 0.70 - 1.00
 - 1.00 - 1.50
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Figure M4.17

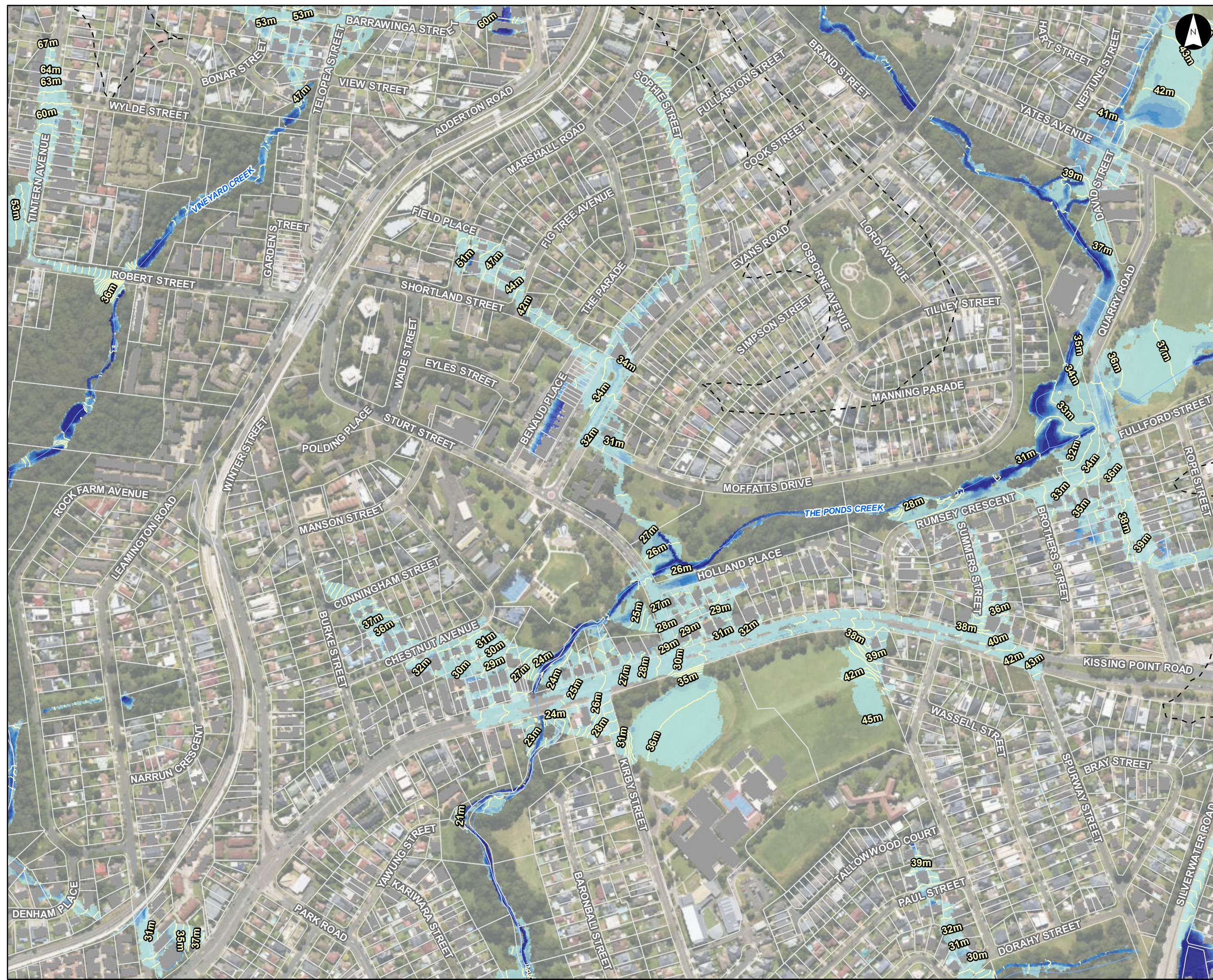
- Notes:
1. Coordinate System: GDA 1994 MGA Zone 56
- References:
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- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

Figure M4.19

Notes:
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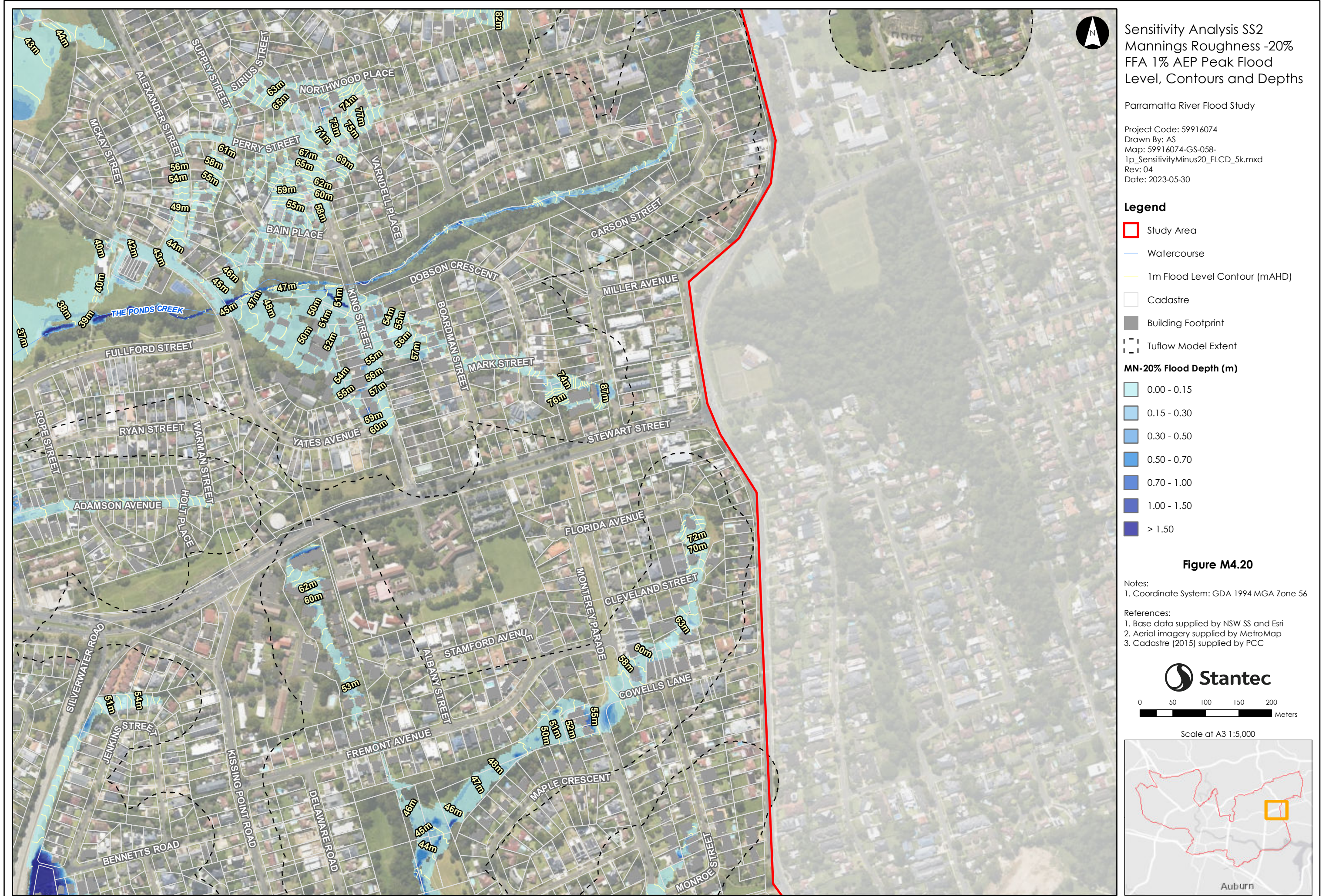
Stantec

0 50 100 150 200
 Meters

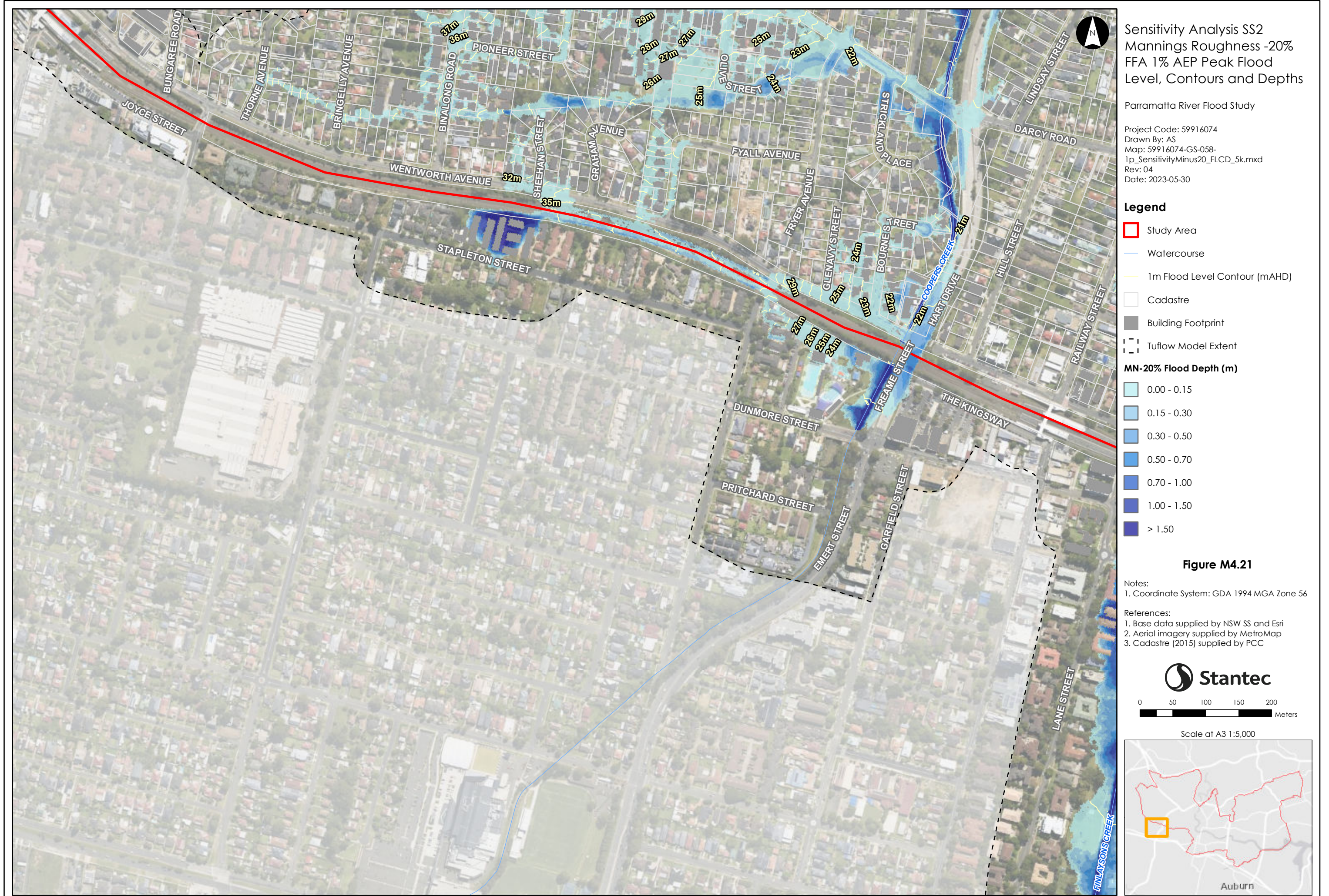
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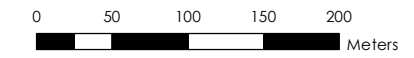
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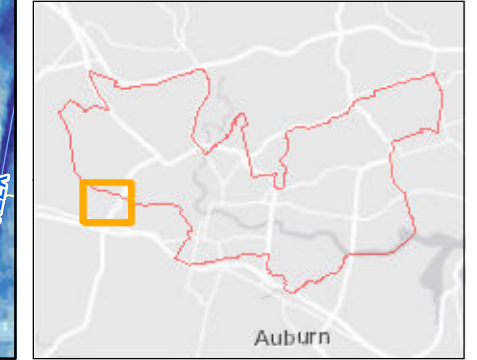
Figure M4.21

Notes:
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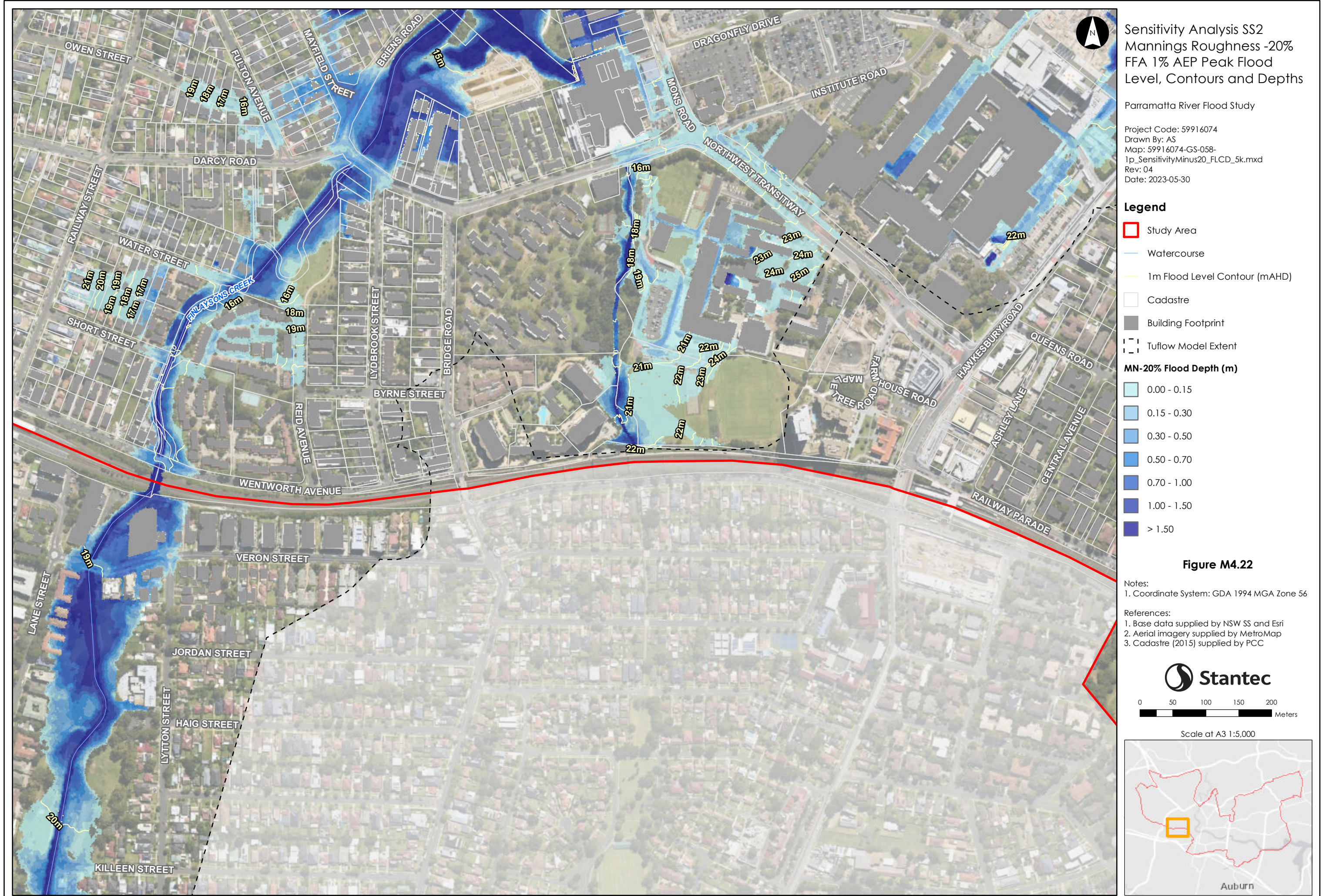
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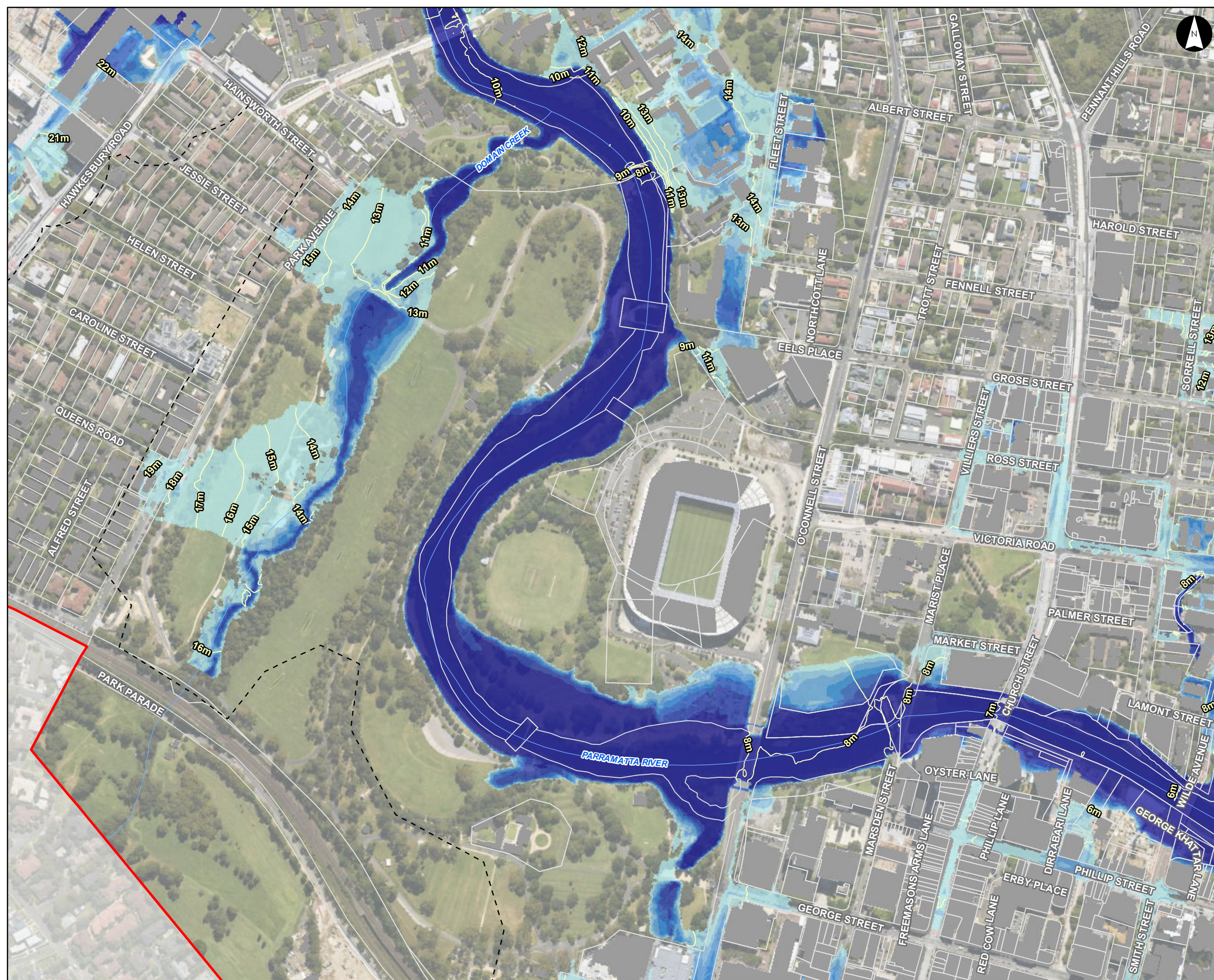
Scale at A3 1:5,000



Please note contours reflect the actual extent of flooding within the Flood Planning Area including riverine floods, overland flow impacted by riverine backwater, and significant overland paths derived from flood simulation results. The flood contour excludes the uppermost catchment local depth of flow and includes results only as a broad-based approach to meet the requirements of Section 14.9 (Property Certificate). Refer to Appendix L for specific affected shallow upper catchment overland flow areas.



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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

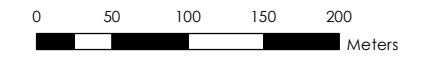
- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

MN-20% Flood Depth (m)

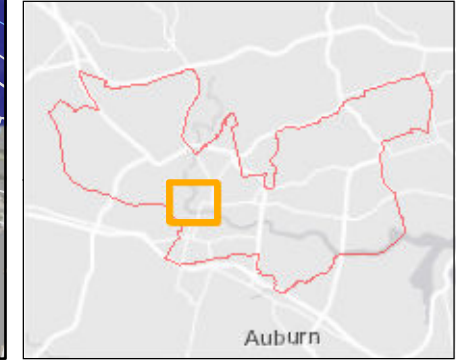
- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

Figure M4.23

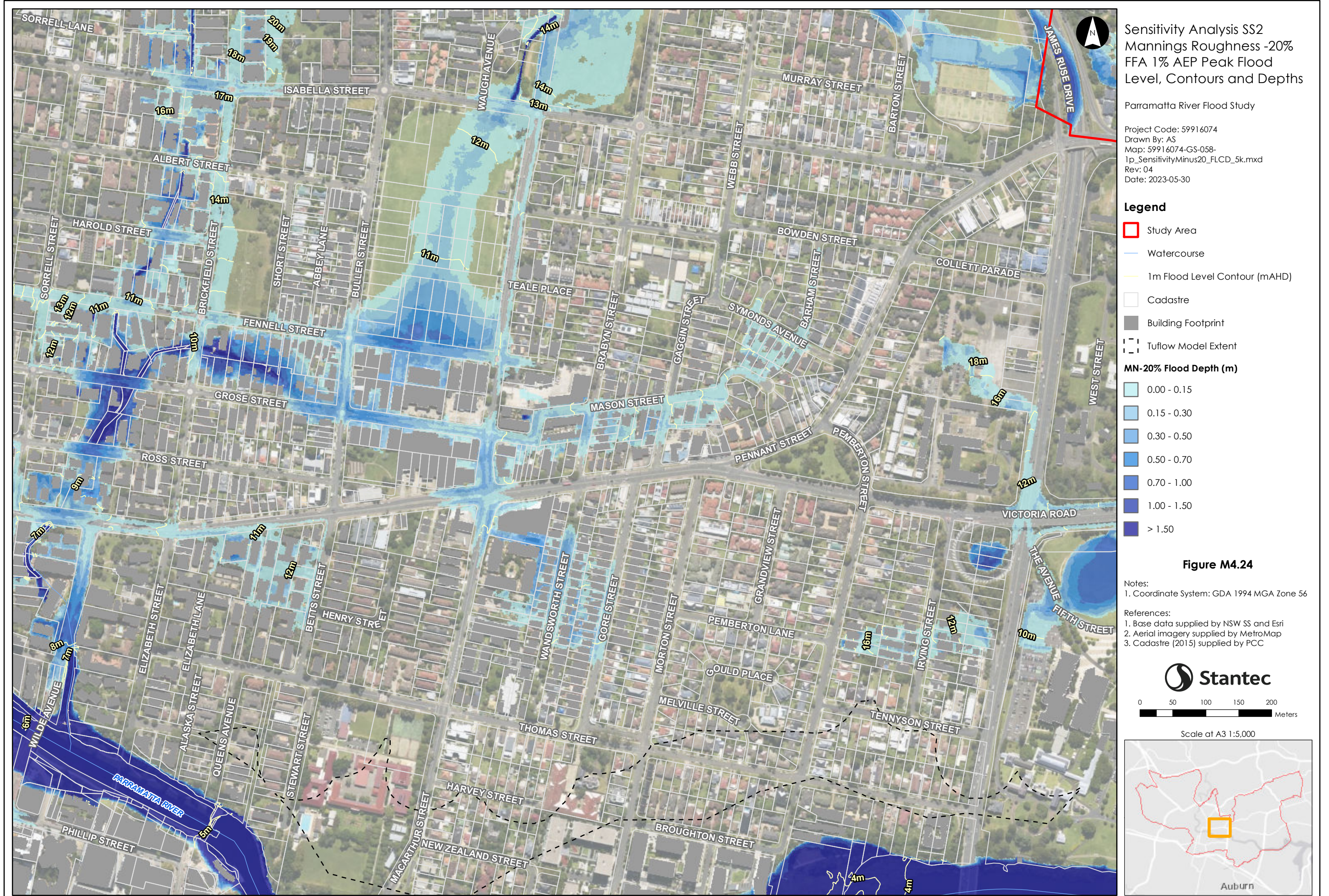
- Notes:
1. Coordinate System: GDA 1994 MGA Zone 56
- References:
1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



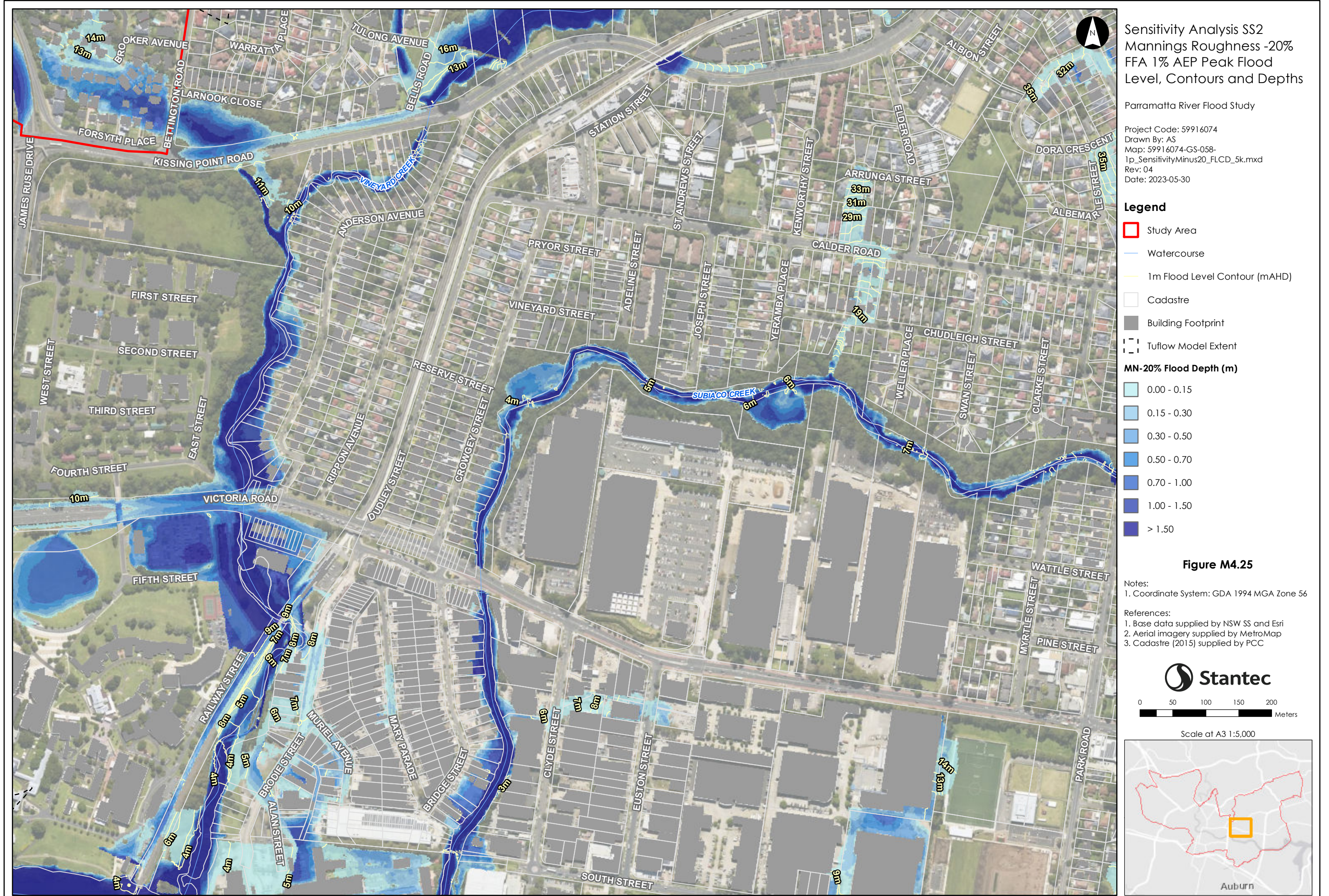
Scale at A3 1:5,000



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 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

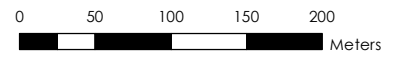
MN-20% Flood Depth (m)

- 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 M4.25

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

References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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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

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

References:
1. Base data supplied by NSW SS and Esri
2. Aerial imagery supplied by MetroMap
3. Cadastre (2015) supplied by PCC

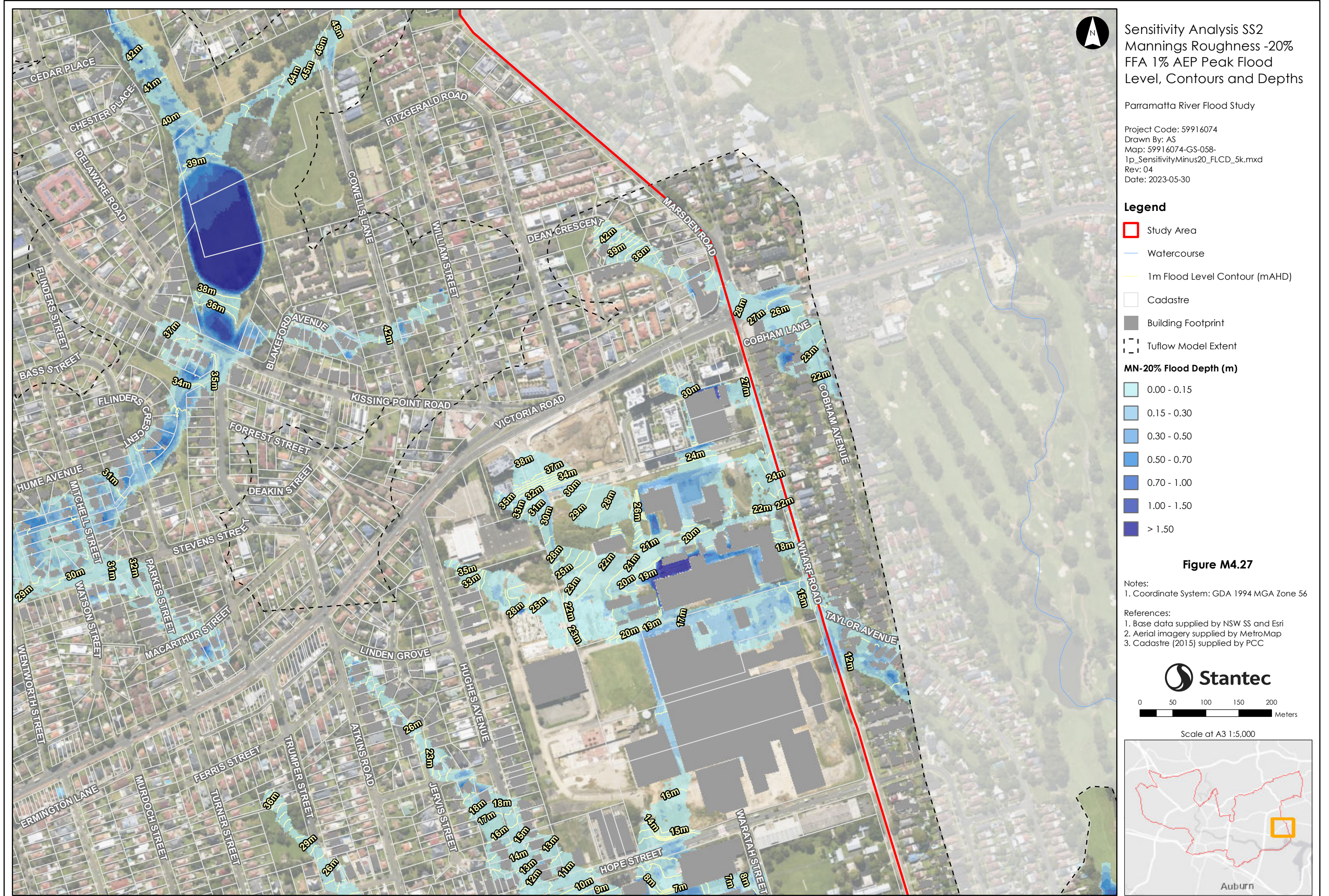
Stantec

0 50 100 150 200
Meters

Scale at A3 1:5,000



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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

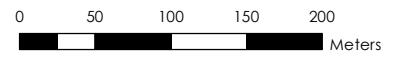
MN-20% Flood Depth (m)

- 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 M4.27

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

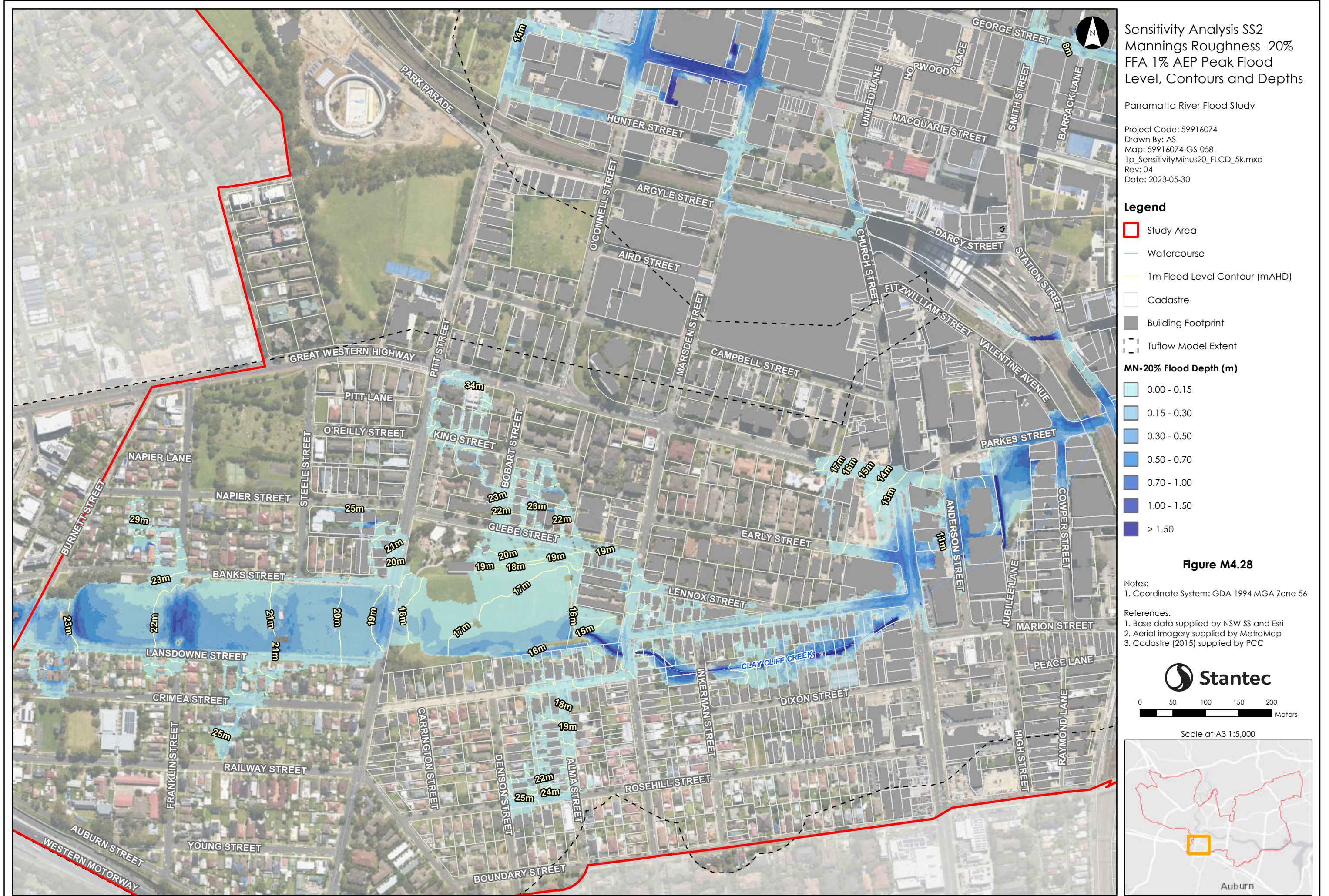
References:
 1. Base data supplied by NSW SS and Esri
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 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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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

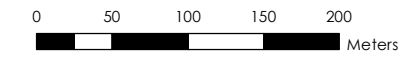
MN-20% Flood Depth (m)

- 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

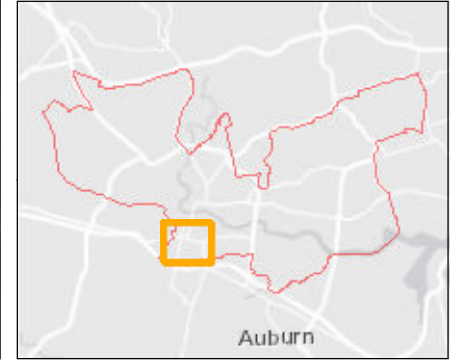
Figure M4.28

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

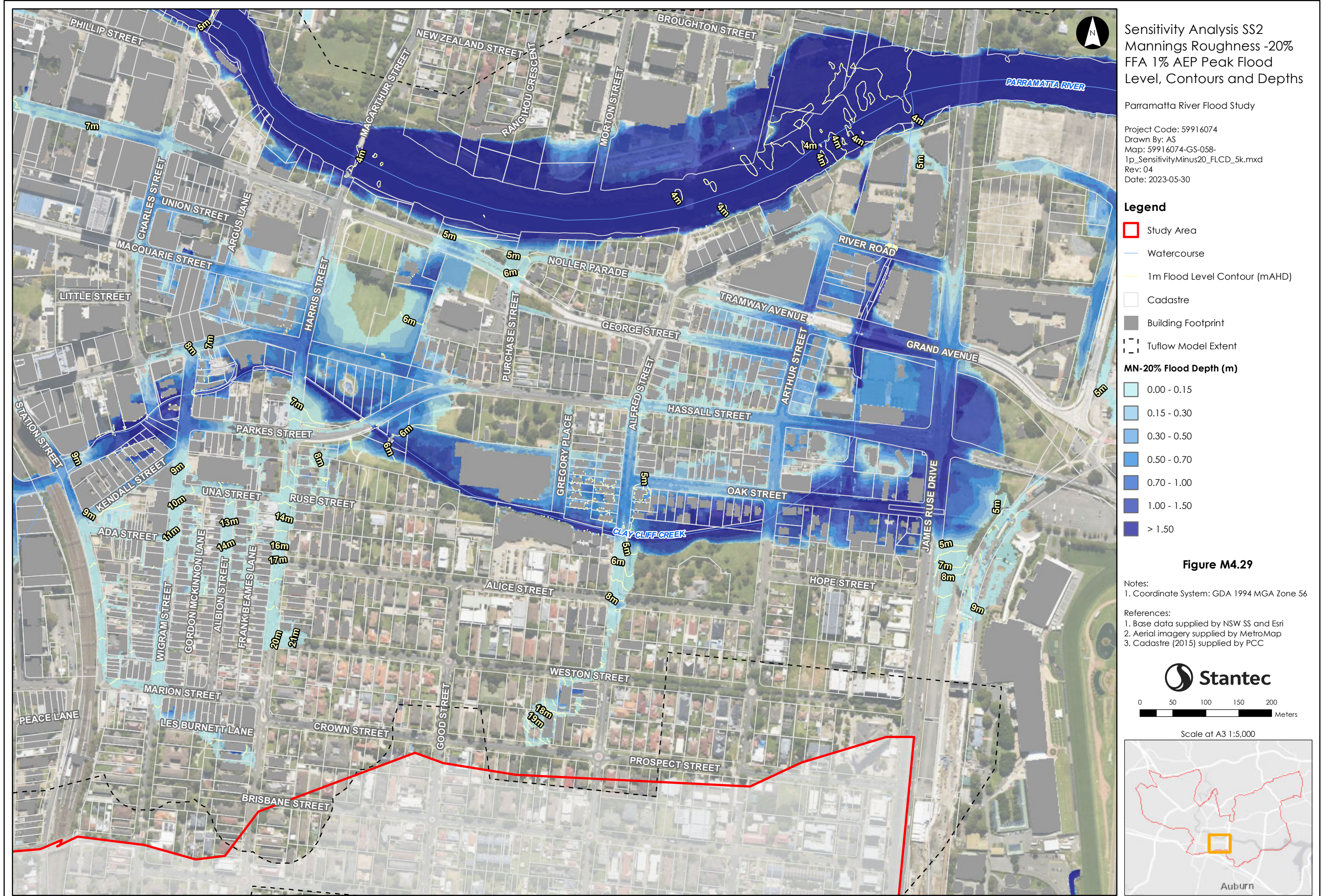
References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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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:
- 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

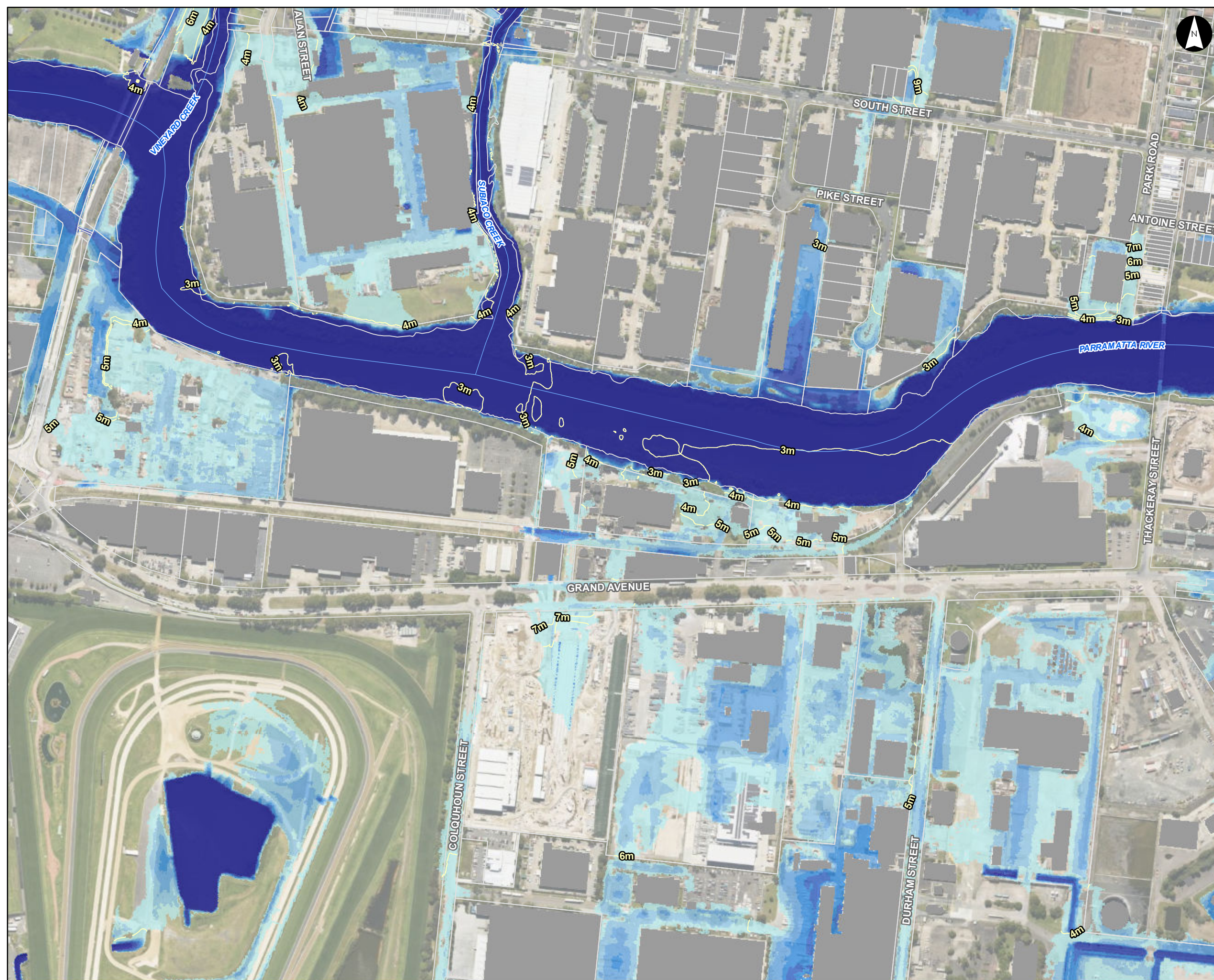
Stantec

0 50 100 150 200 Meters

Scale at A3 1:5,000



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Legend

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

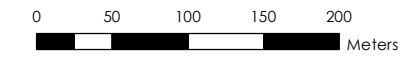
MN-20% Flood Depth (m)

- 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 M4.30

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
- Tufflow Model Extent

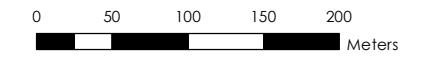
MN-20% Flood Depth (m)

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

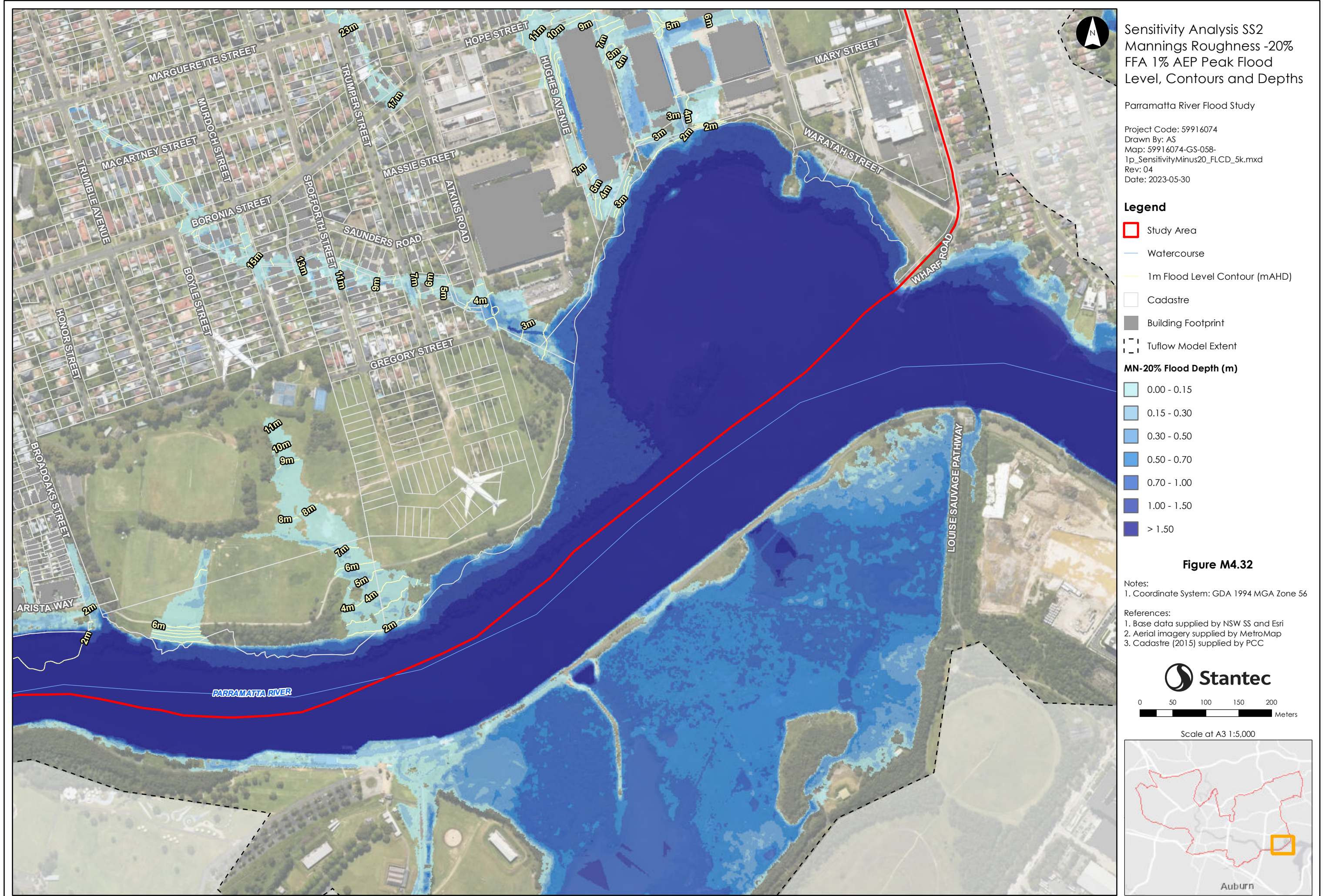
References:
 1. Base data supplied by NSW SS and Esri
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Scale at A3 1:5,000



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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

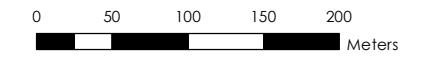
MN-20% Flood Depth (m)

- 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

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

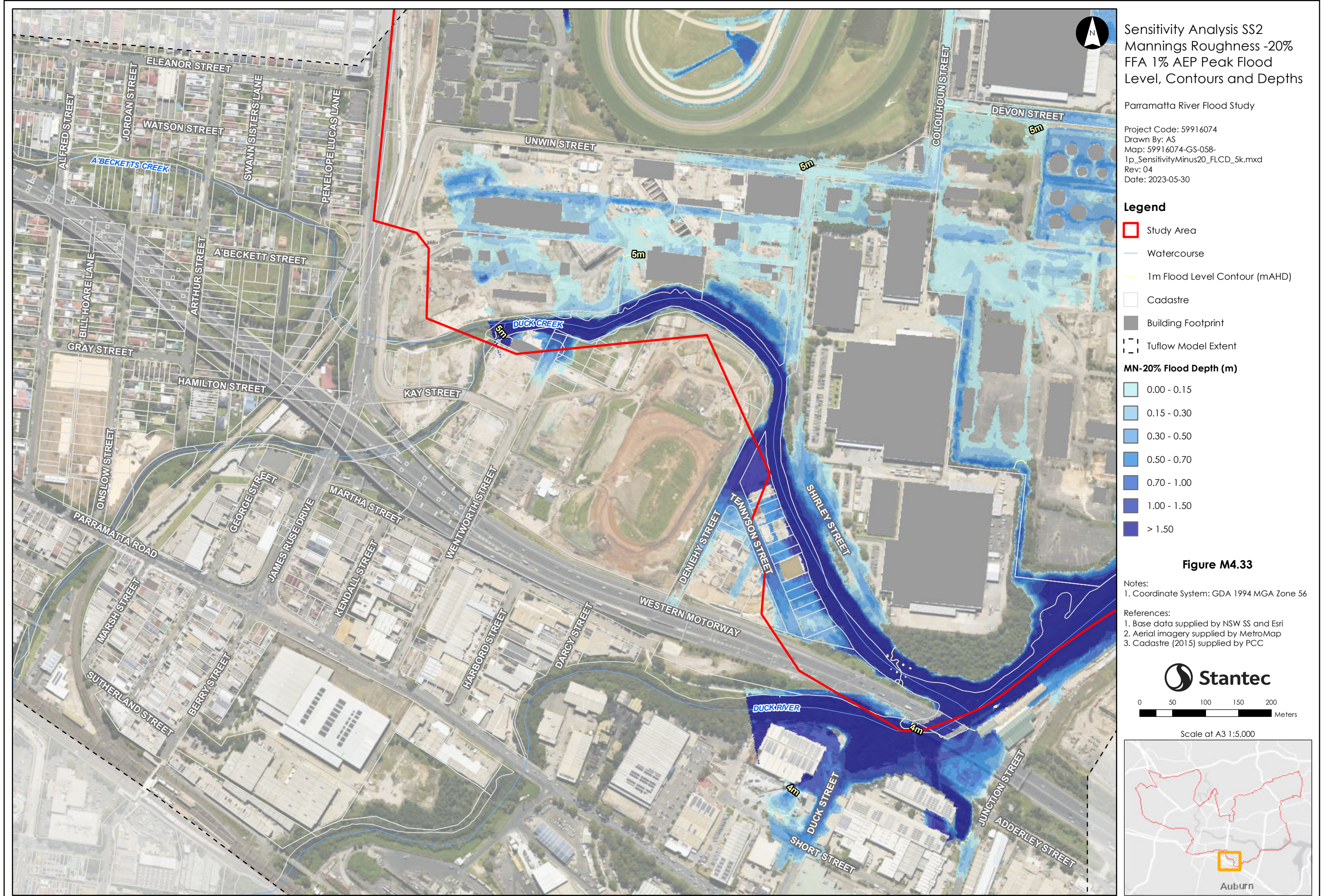
References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



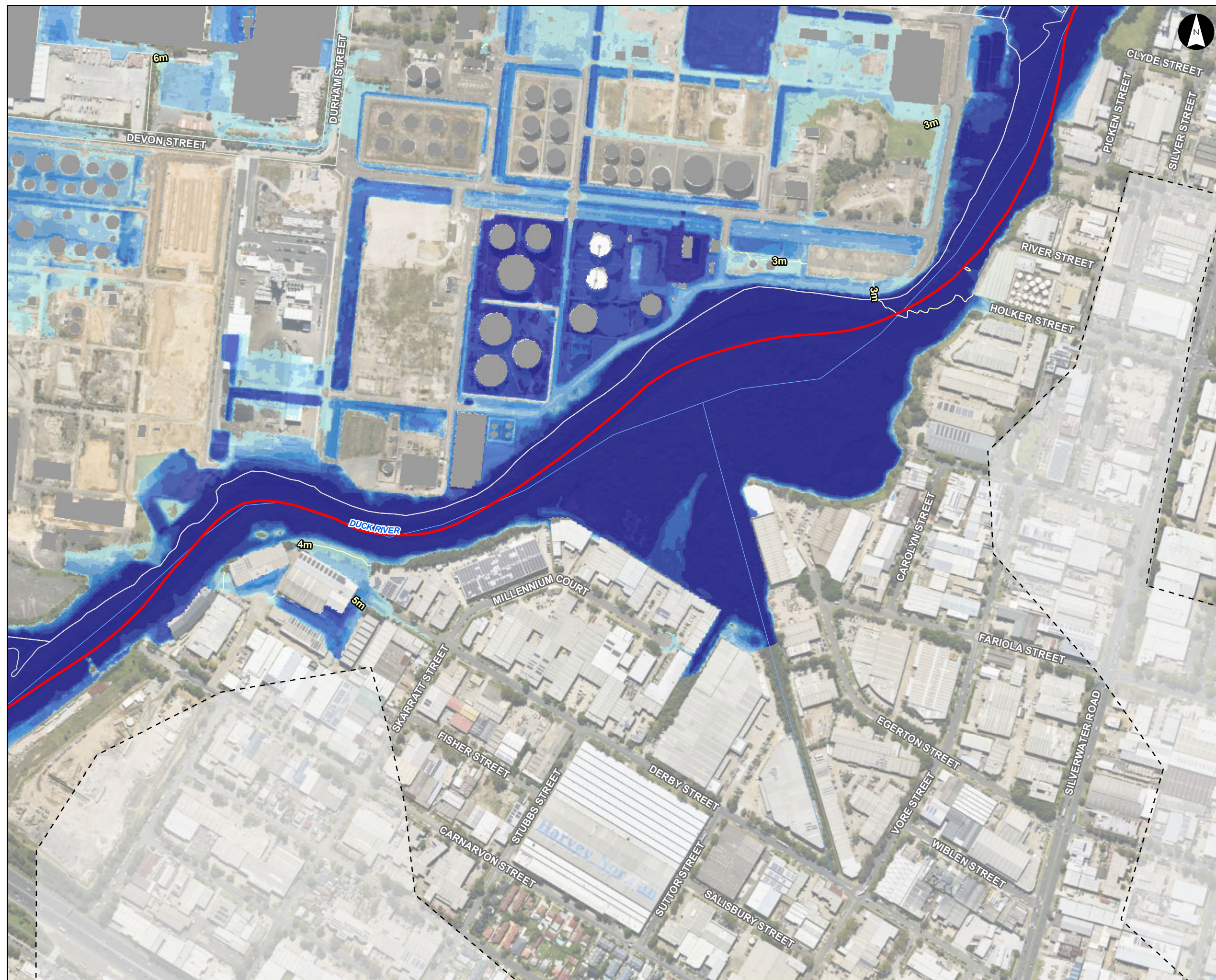
Scale at A3 1:5,000



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Parramatta River Flood Study
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Legend

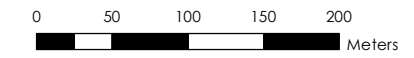
- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

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 M4.34

- Notes:
1. Coordinate System: GDA 1994 MGA Zone 56
- References:
1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000

