

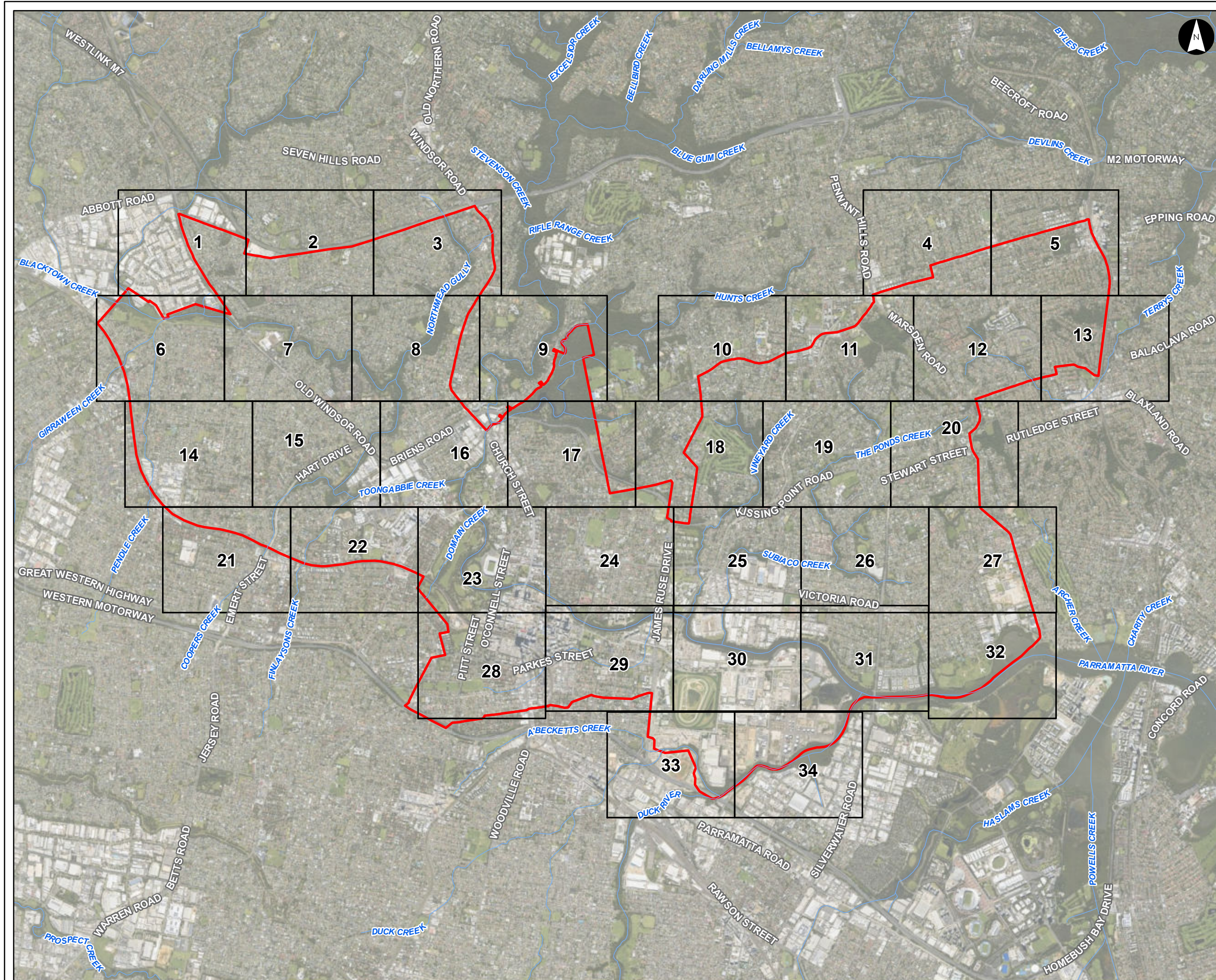
APPENDIX

M

SENSITIVITY ANALYSIS

Please note that the flood mapping depicts contours that map the actual extent of flooding within the Flood Planning Area. These include areas affected by riverine floods, overland flow impacted by riverine backwater, and significant overland paths derived from flood simulation results. It is important to note that 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 10.7 (Property Certificate). For information on specific shallow upper catchment overland areas that are affected, please refer to Appendix L - FPL for polygonised areas.

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 10.7 (Property Certificate). Refer to Appendix L for specific affected shallow upper catchment overland flow areas.



**Sensitivity Analysis
Overview and Figure
Index Sheet**

Parramatta River Flood Study

Project Code: 59916074
 Drawn By: AS
 Map: 59916074-GS-068-SensitivityIndex.mxd
 Rev: 02
 Date: 2023-05-30

Legend

- Study Area
- Watercourse
- Map Grid

Figure M1.1

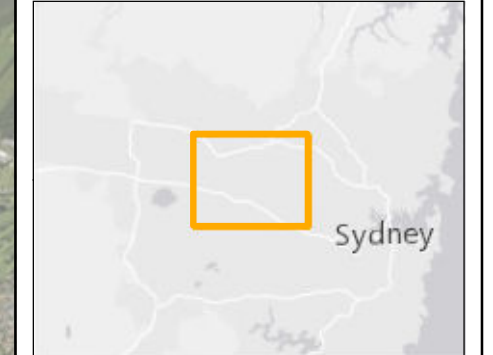
Notes:
 1. Coordinate System: GDA 1994 MGA Zone 56

References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap

Stantec

0 500 1,000 1,500 2,000 Metres

Scale at A3 1:45,000



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 149 (Property Certificate). Refer to Appendix L for specific affected shallow upper catchment overland flow areas.



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 149 (Property Certificate). Refer to Appendix L for specific affected shallow upper catchment overland flow areas.



Sensitivity Analysis SS1
 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-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

Legend

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

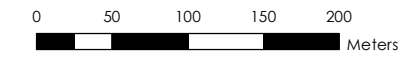
MN+20% Flood Depth (m)

- 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 M2.2

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 SS1
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
 Drawn By: AS
 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

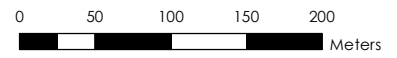
Legend

- 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 M2.3

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

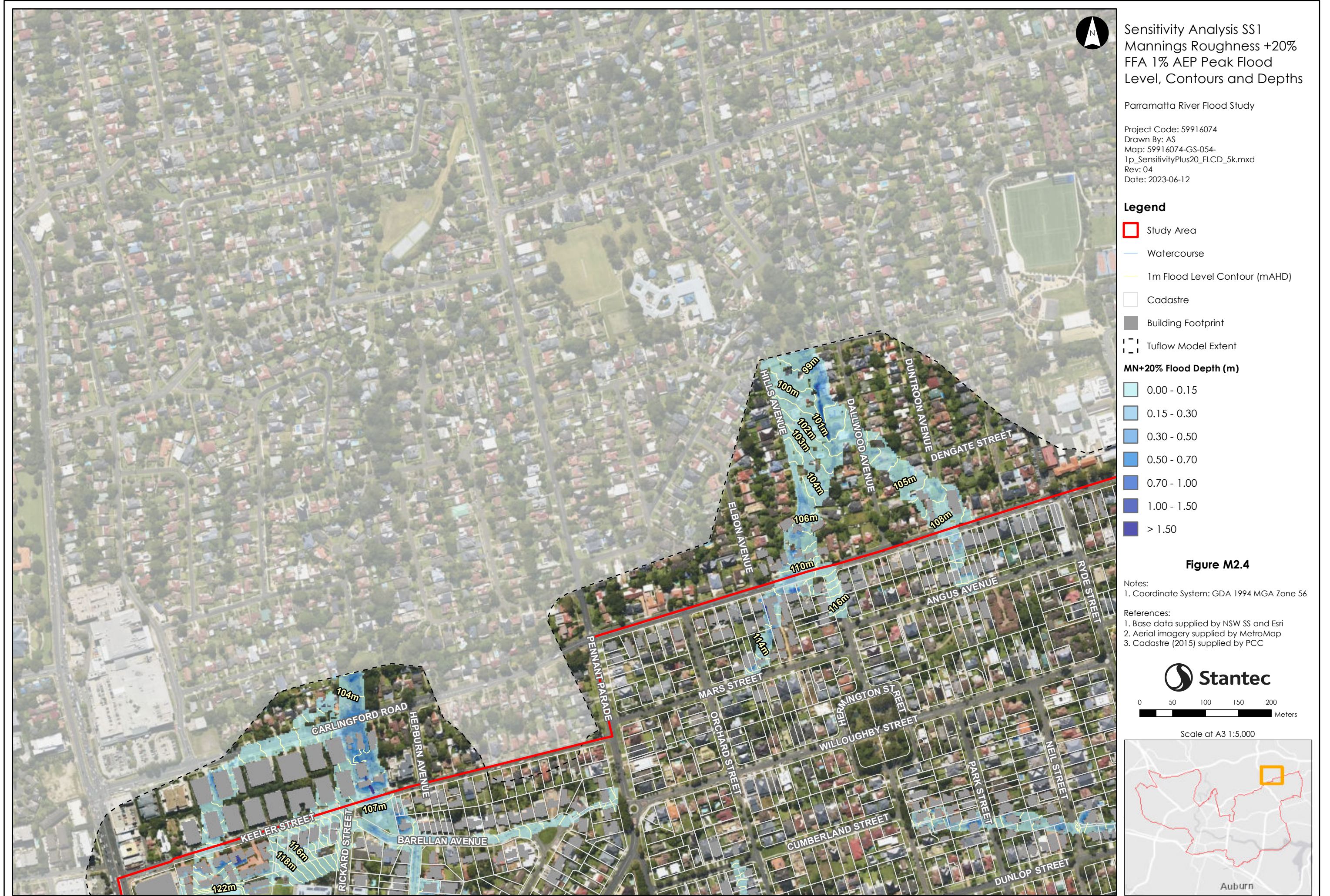
References:
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 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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Sensitivity Analysis SS1
 Mannings Roughness +20%
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Parramatta River Flood Study

Project Code: 59916074
 Drawn By: AS
 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

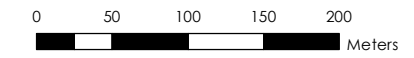
Legend

- 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 M2.4

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

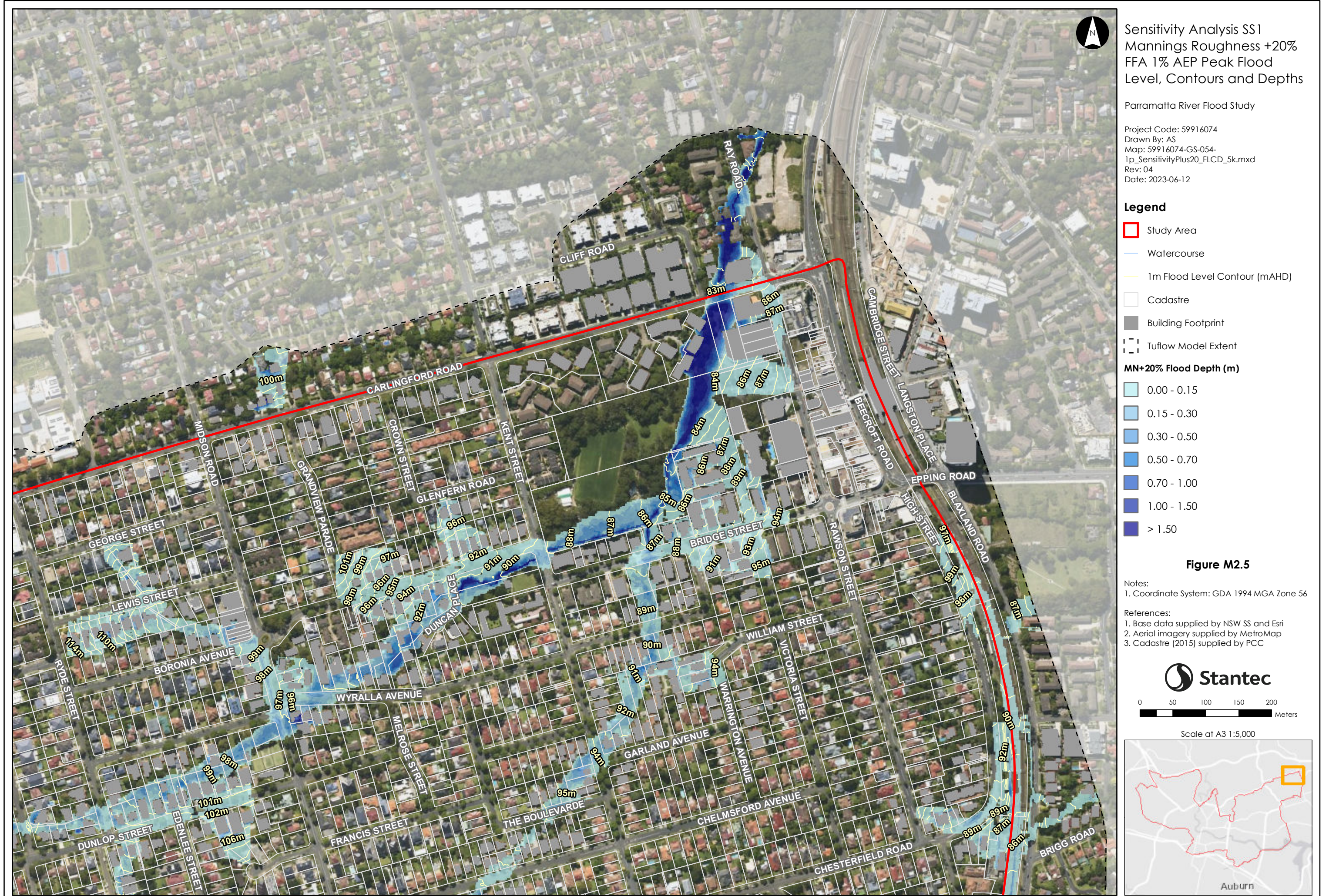
References:
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 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



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.



Sensitivity Analysis SS1
 Mannings Roughness +20%
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
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 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

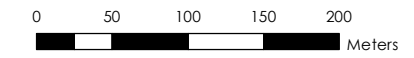
Legend

- 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 M2.5

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

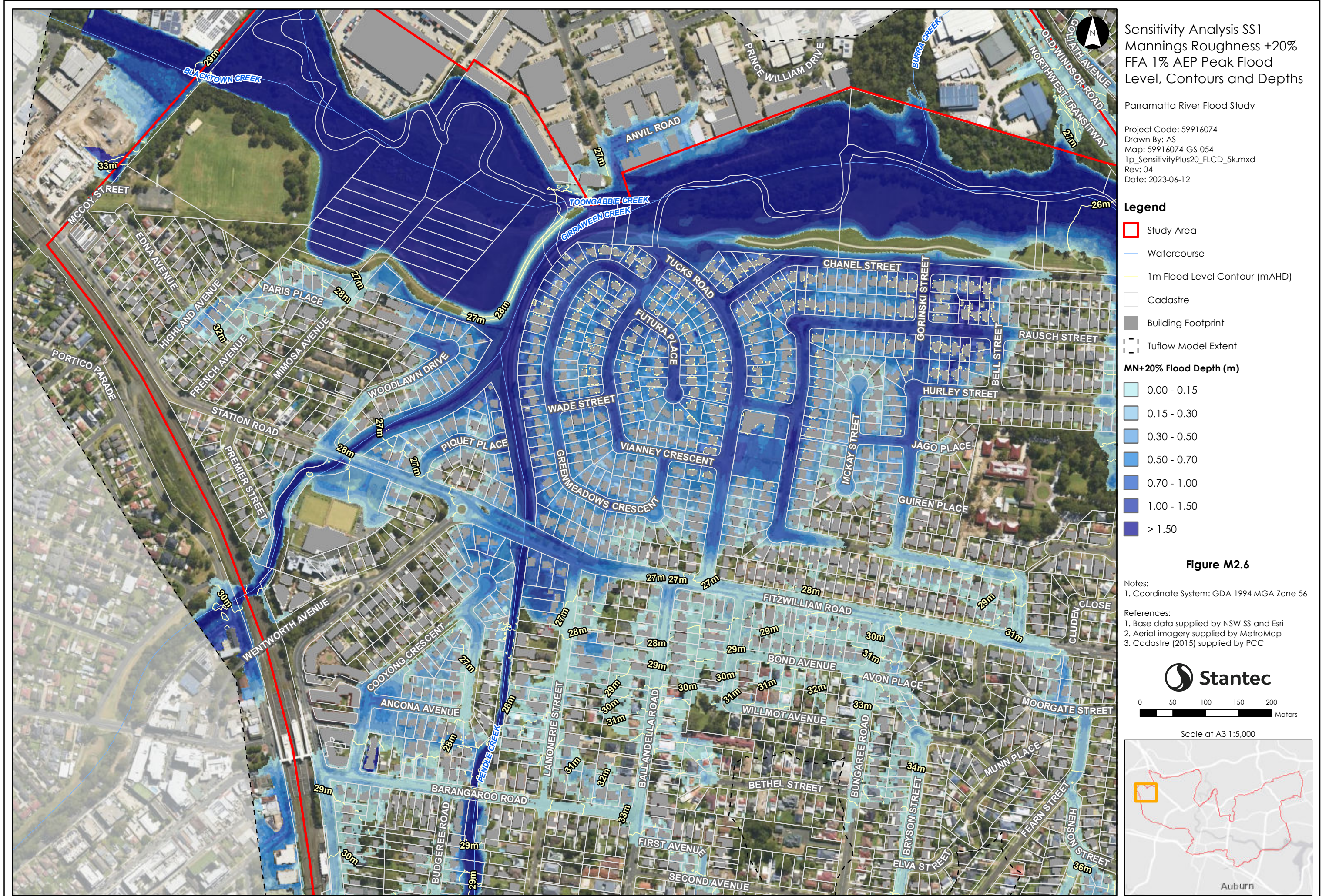
References:
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Scale at A3 1:5,000



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Parramatta River Flood Study

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 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

Legend

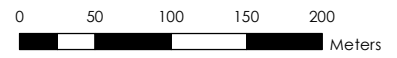
- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

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 M2.6

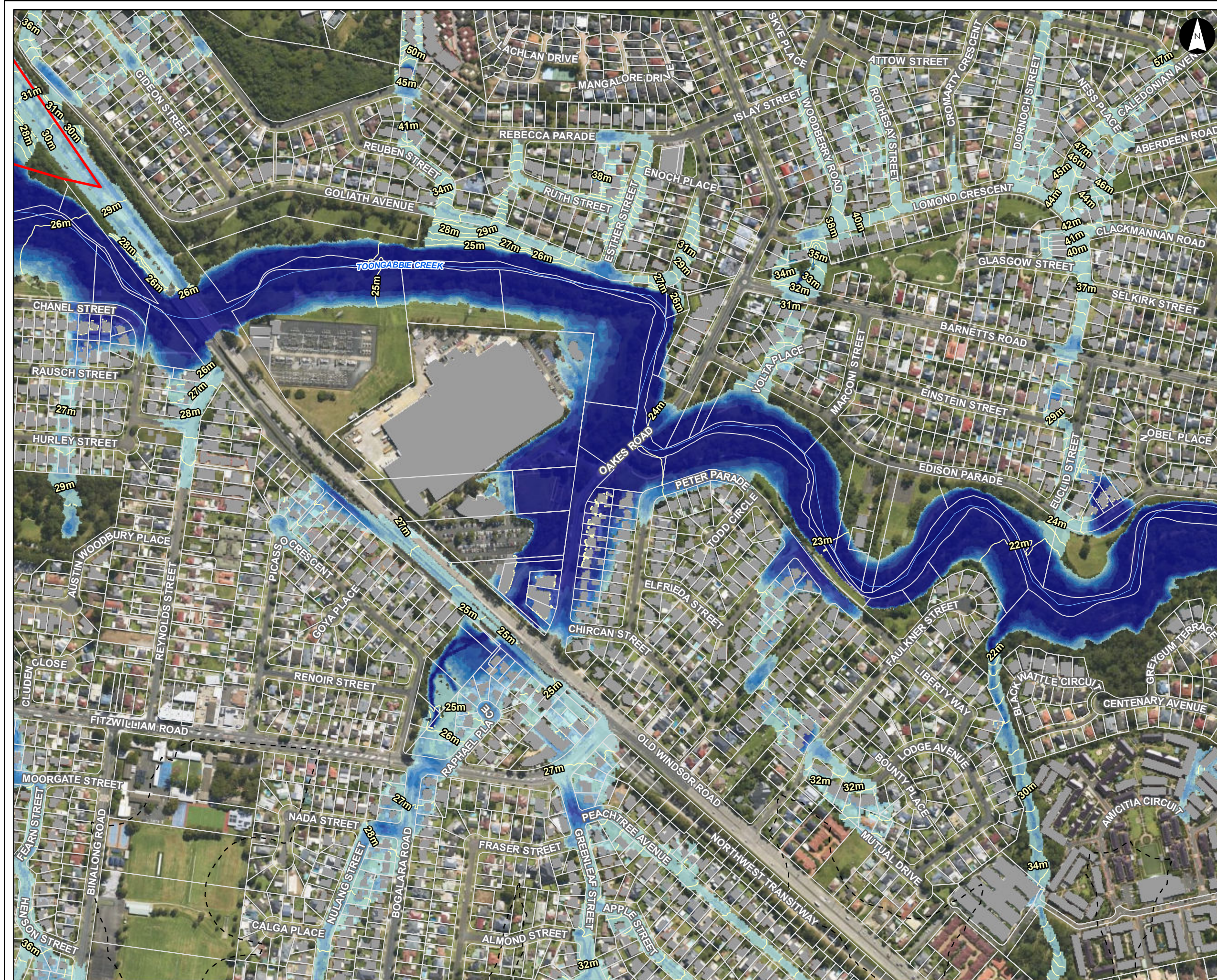
- Notes:
1. Coordinate System: GDA 1994 MGA Zone 56
- References:
1. Base data supplied by NSW SS and Esri
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Scale at A3 1:5,000



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Parramatta River Flood Study
 Project Code: 59916074
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 1p_SensitivityPlus20_FLCD_5k.mxd
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Legend

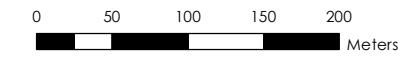
- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent

MN+20% Flood Depth (m)

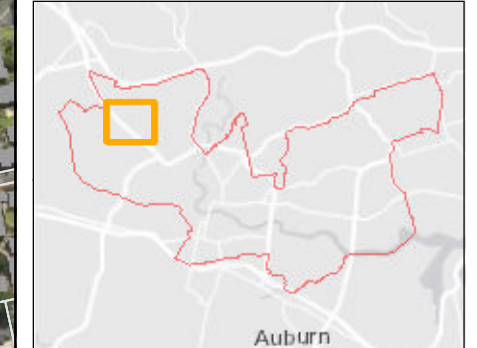
- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

Figure M2.7

- 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



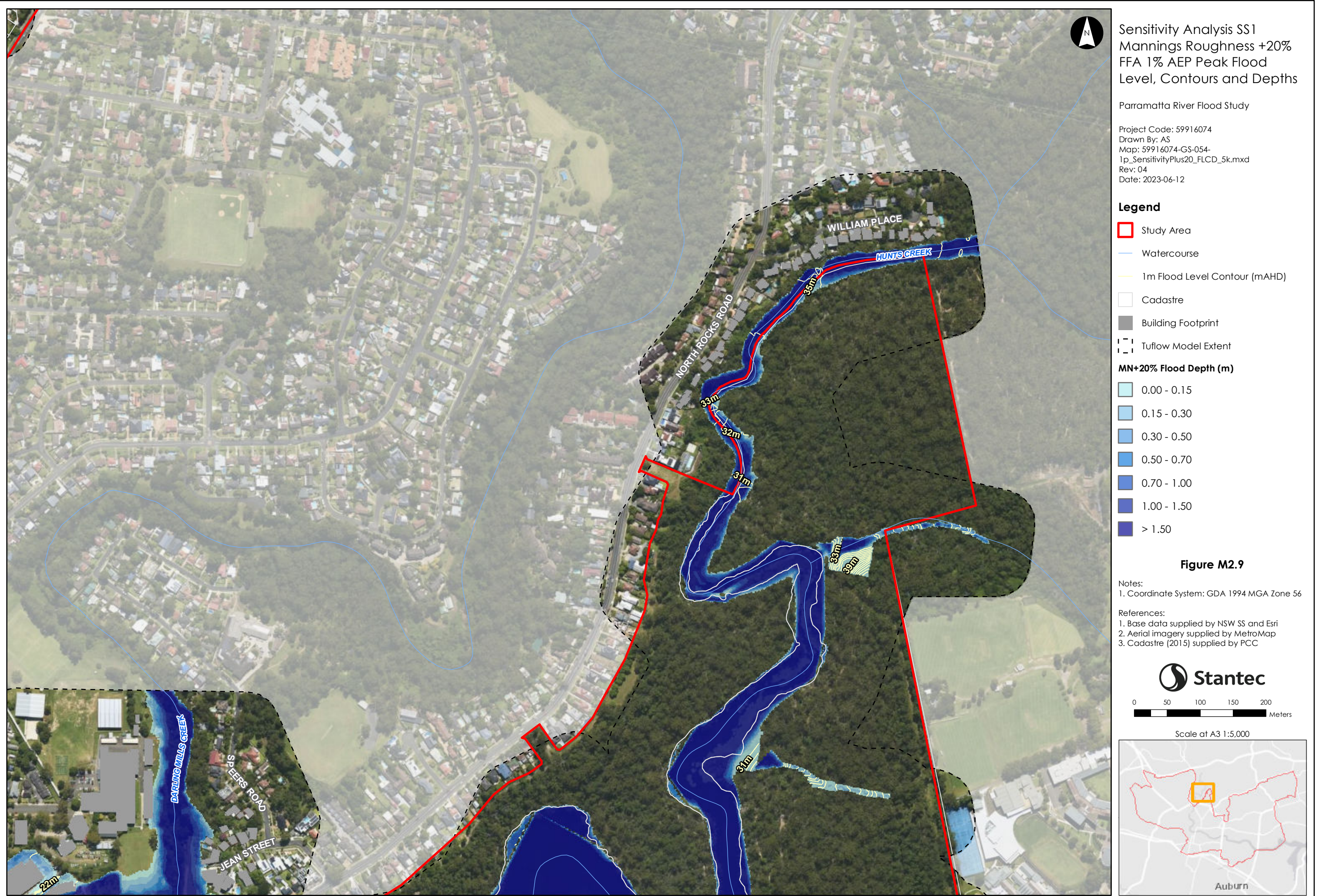
Scale at A3 1:5,000



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 SS1
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
 Drawn By: AS
 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

Legend

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

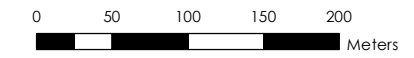
MN+20% Flood Depth (m)

- 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

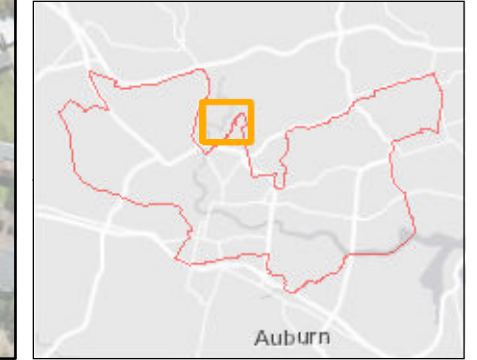
Figure M2.9

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

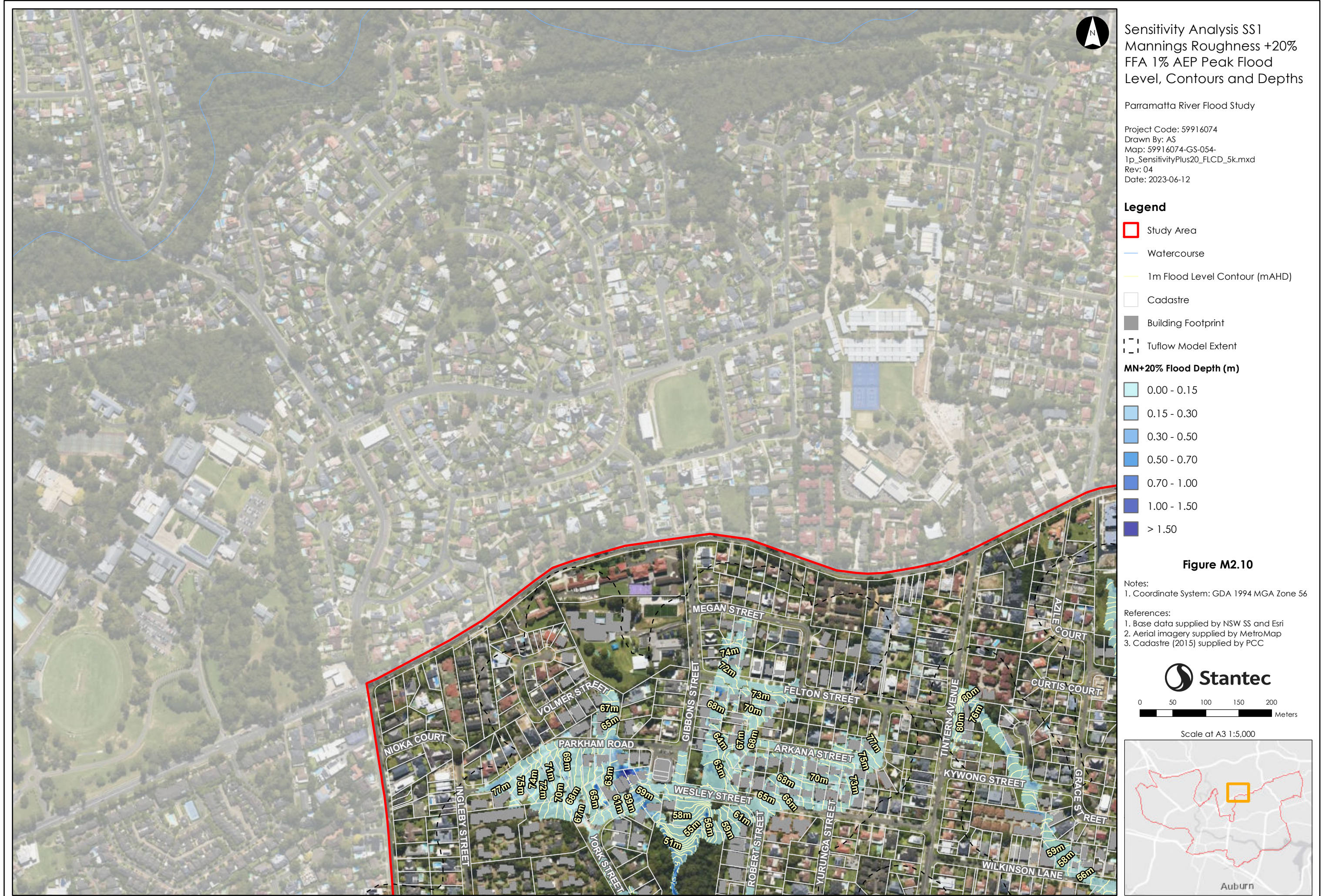
References:
 1. Base data supplied by NSW SS and Esri
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Scale at A3 1:5,000



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Sensitivity Analysis SS1
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
 Drawn By: AS
 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

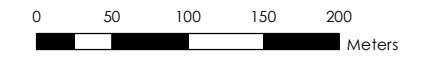
Legend

- 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 M2.10

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

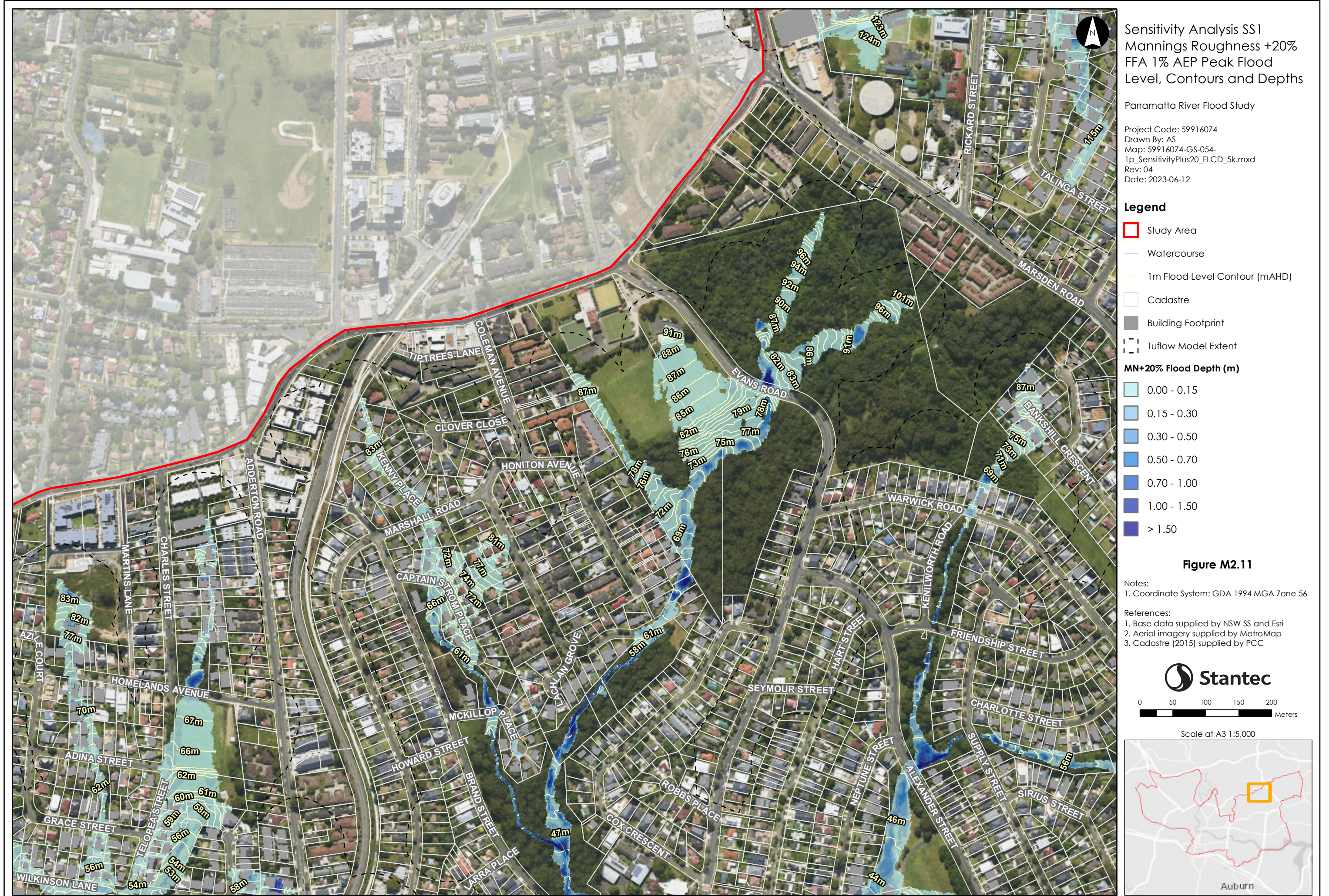
References:
 1. Base data supplied by NSW SS and Esri
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 3. Cadastre (2015) supplied by PCC



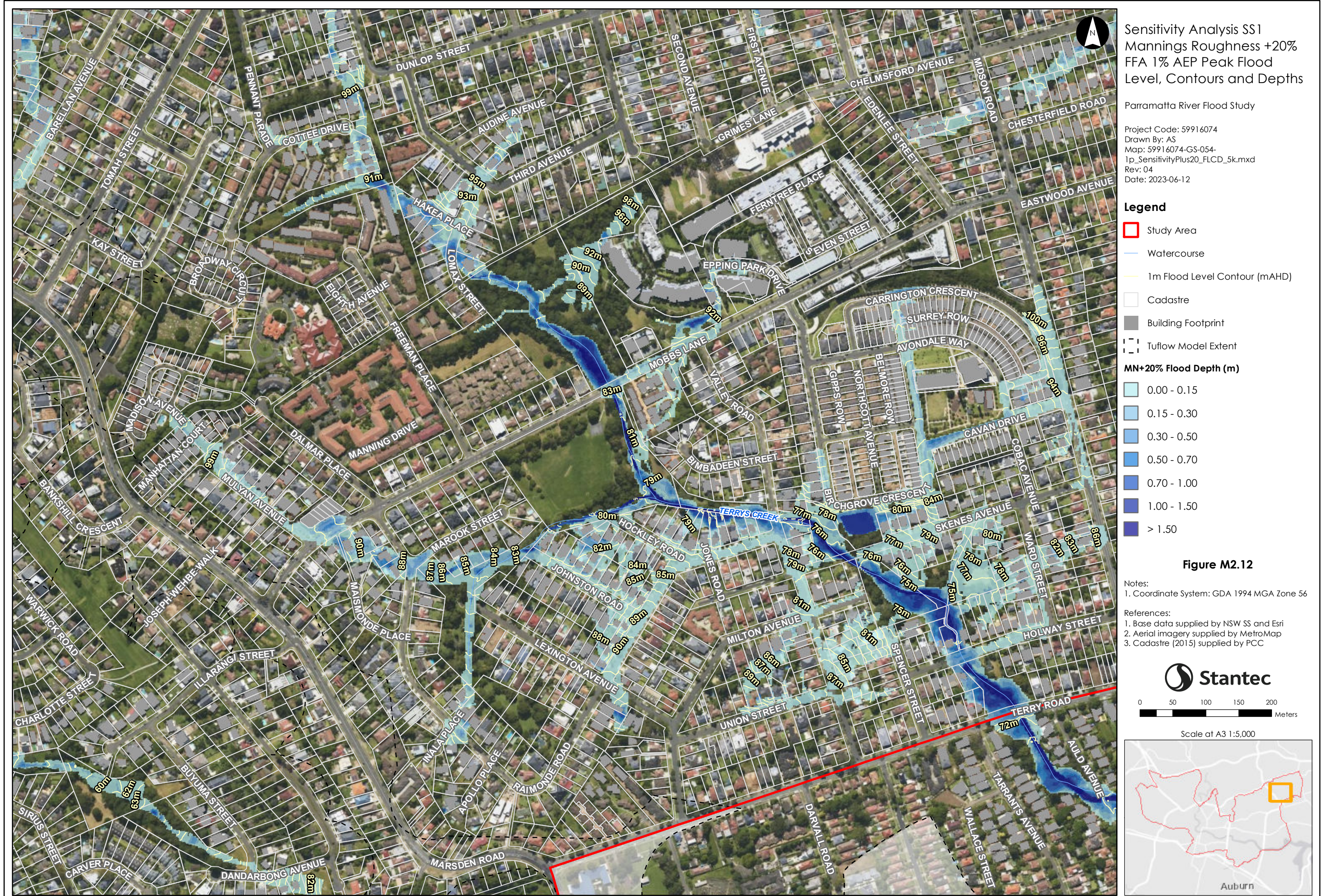
Scale at A3 1:5,000



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Parramatta River Flood Study

Project Code: 59916074
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 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
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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 M2.12

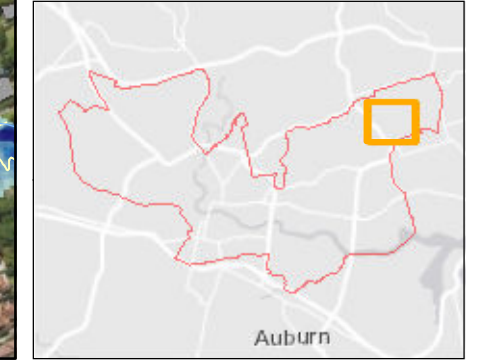
Notes:
 1. Coordinate System: GDA 1994 MGA Zone 56

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

Stantec

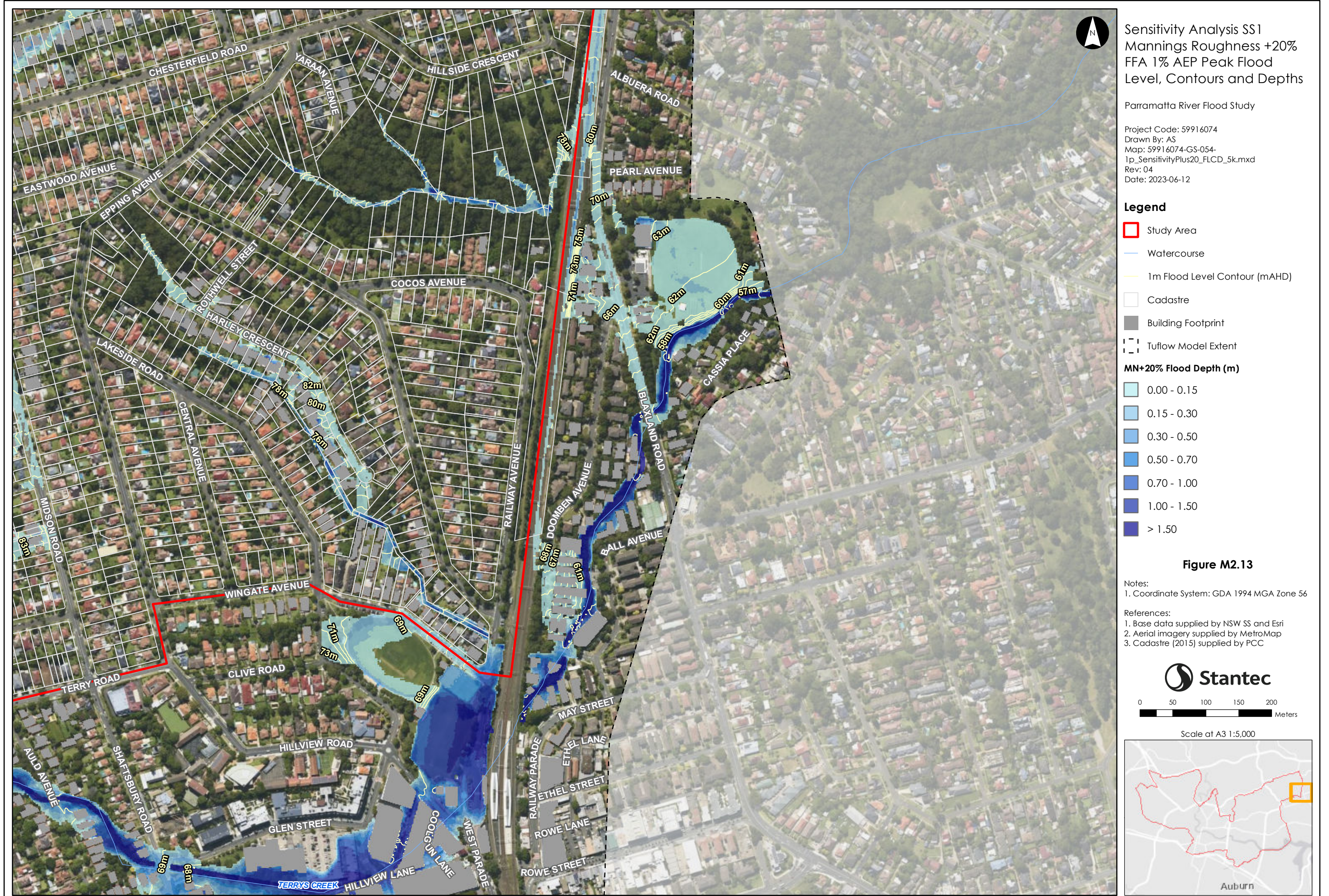
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Scale at A3 1:5,000



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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
 Drawn By: AS
 Map: 59916074-GS-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

Legend

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

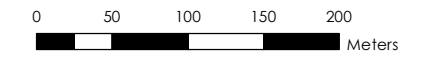
MN+20% Flood Depth (m)

- 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 M2.13

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

References:
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 3. Cadastre (2015) supplied by PCC

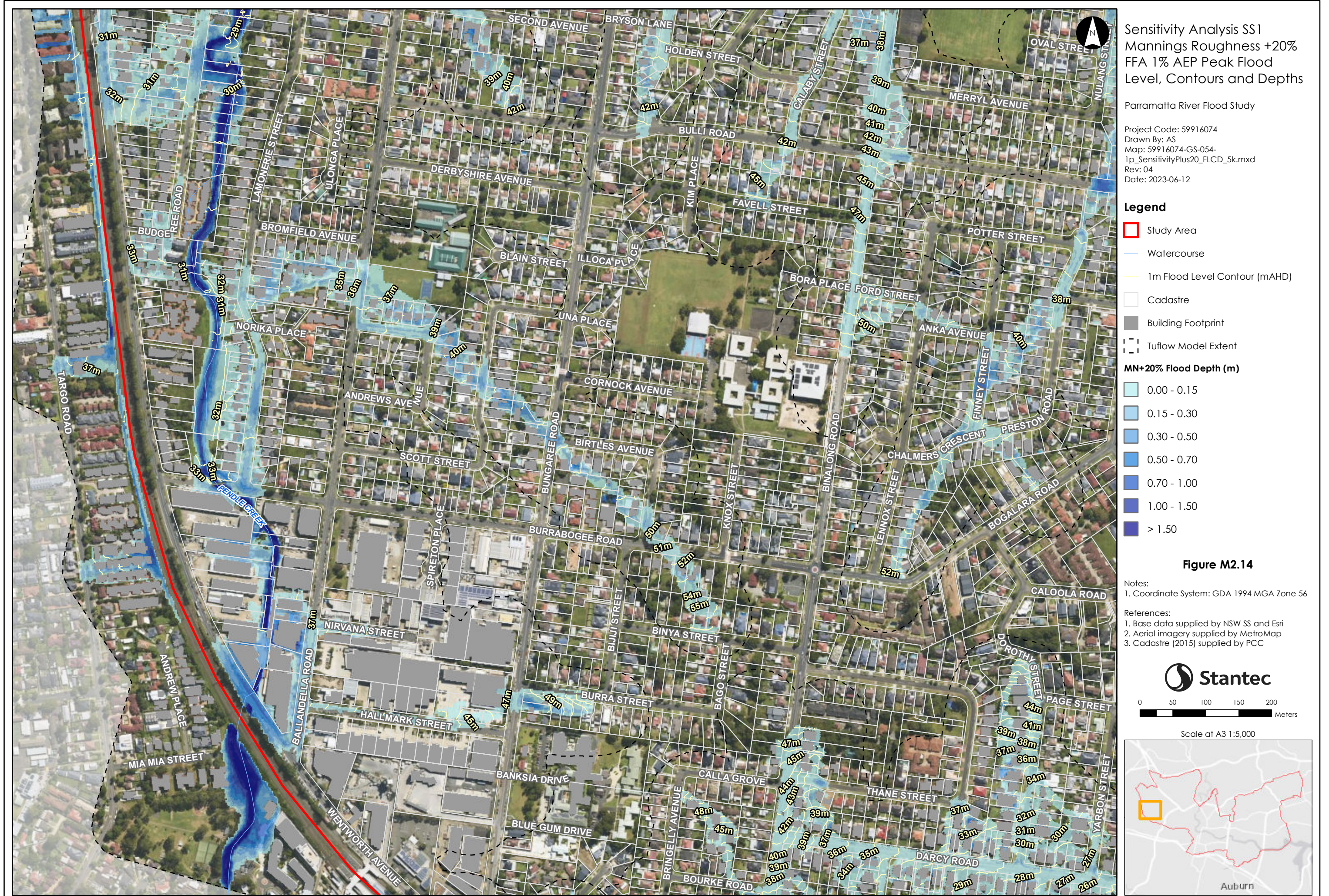


Scale at A3 1:5,000



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Sensitivity Analysis SS1
 Mannings Roughness +20%
 FFA 1% AEP Peak Flood
 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
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 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
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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 M2.14

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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Sensitivity Analysis SS1
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FFA 1% AEP Peak Flood
Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074
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1p_SensitivityPlus20_FLCD_5k.mxd
Rev: 04
Date: 2023-06-12

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 M2.15

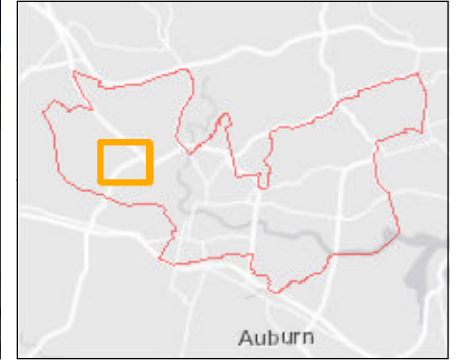
Notes:
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References:
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2. Aerial imagery supplied by MetroMap
3. Cadastre (2015) supplied by PCC

Stantec

0 50 100 150 200
Meters

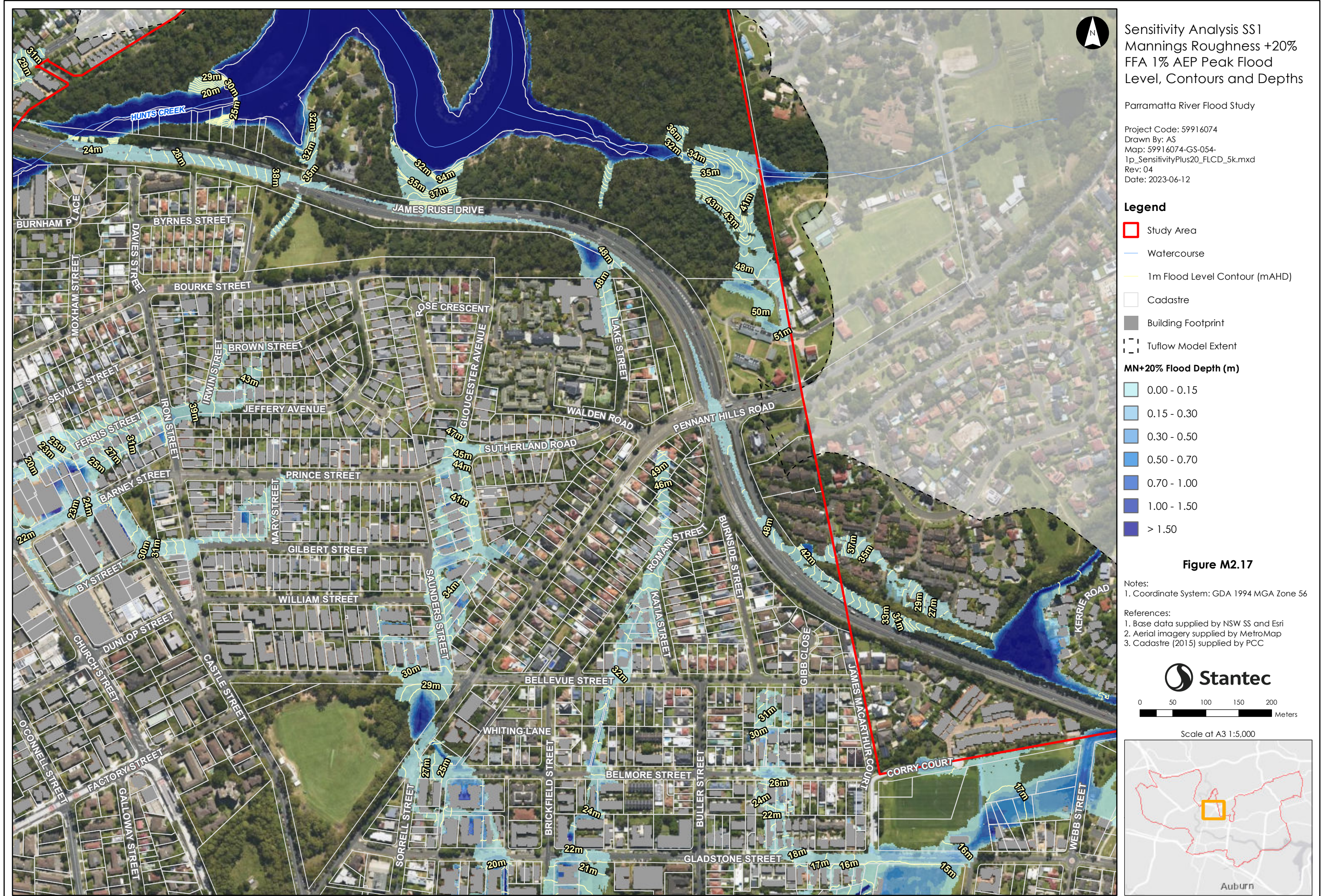
Scale at A3 1:5,000



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Sensitivity Analysis SS1
 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-054-
 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

Legend

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

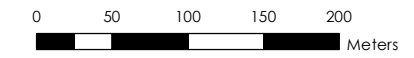
MN+20% Flood Depth (m)

- 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 M2.17

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

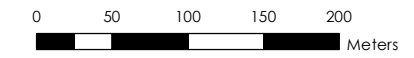
MN+20% Flood Depth (m)

- 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 M2.18

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



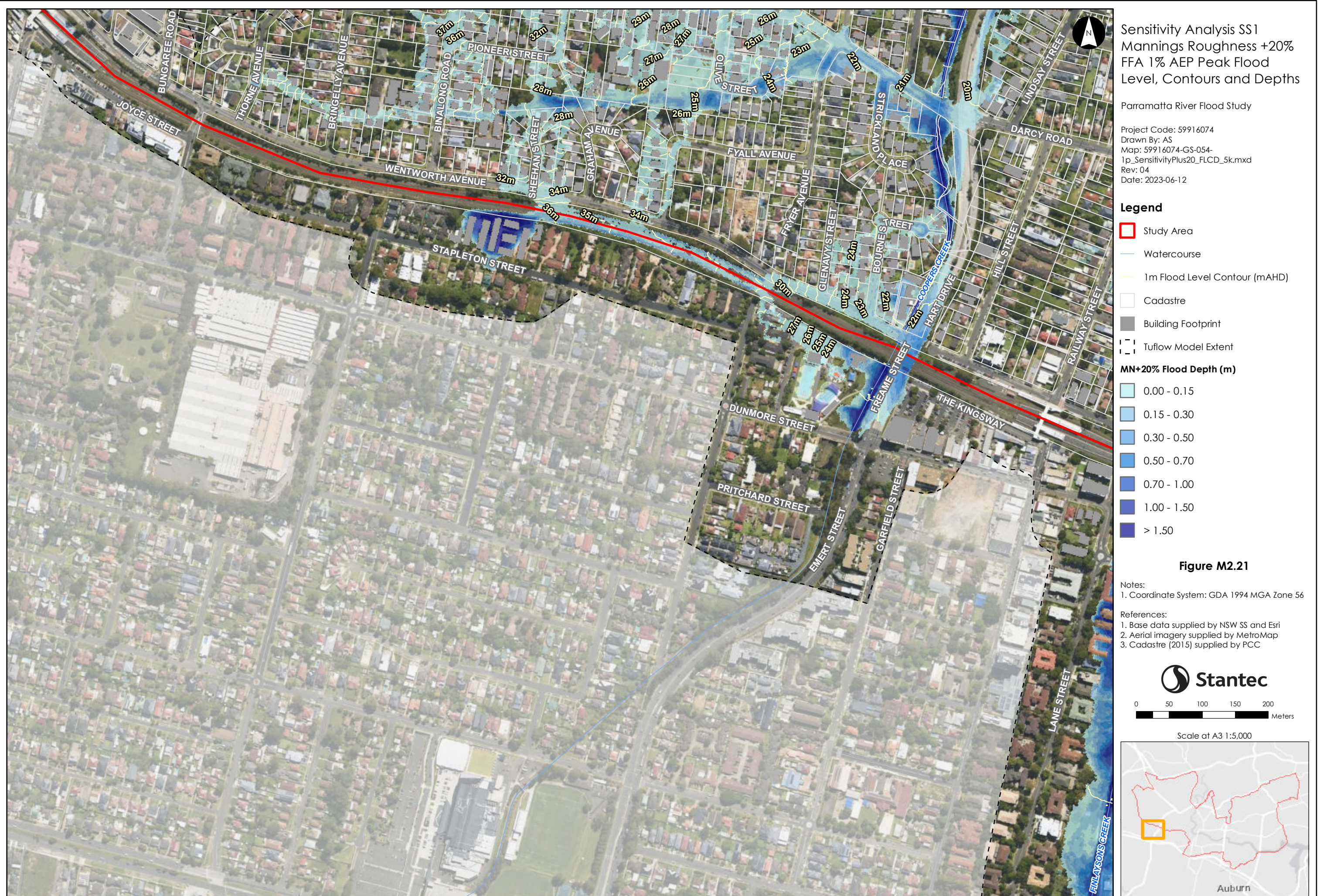
Please note contours reflect the actual extent of flooding within the Flood Planning Area including riverine floods, overland flow impacted by riverine backwater, and significant overland paths derived from flood simulation results. The flood contour excludes the uppermost catchment local depth of flow 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.



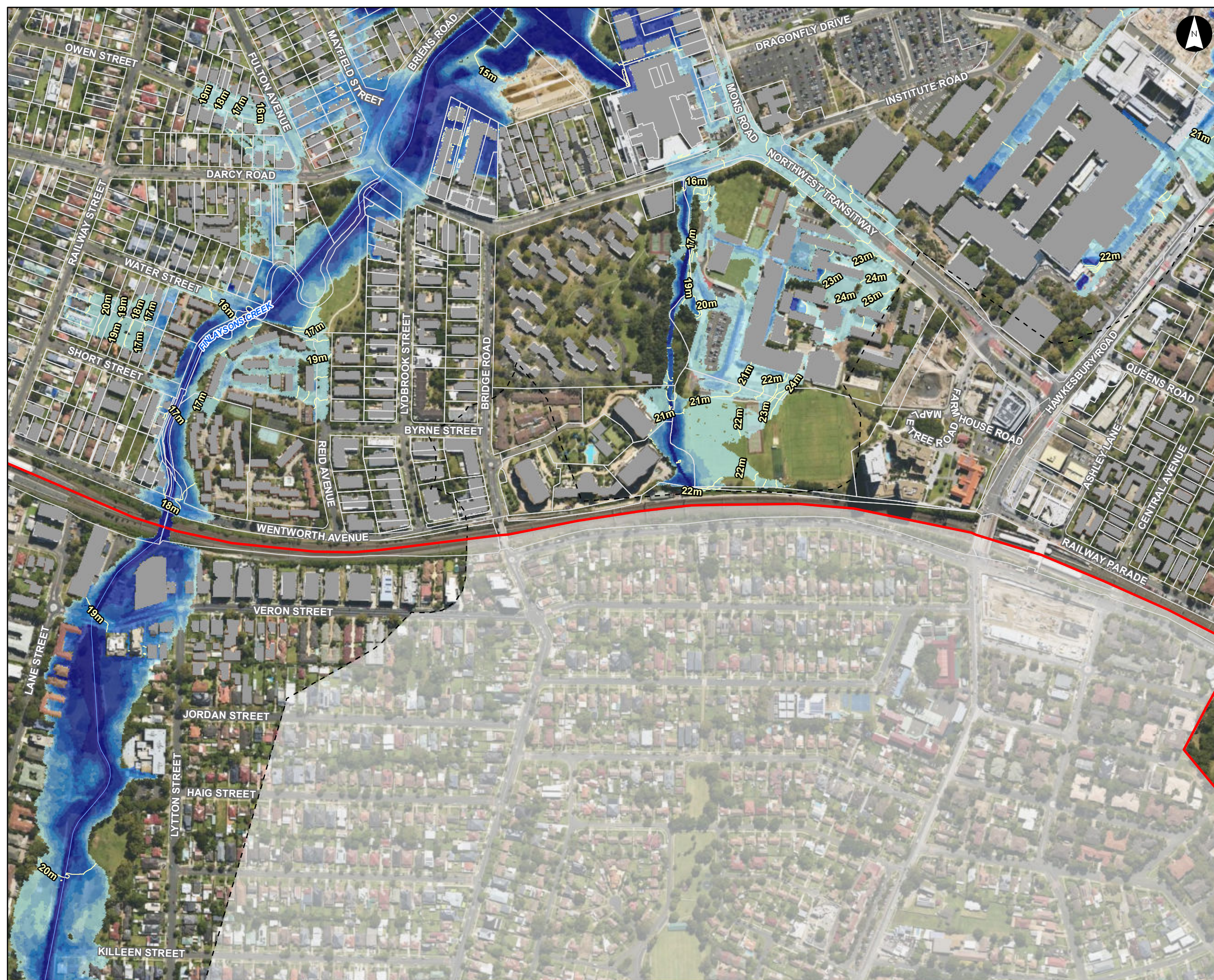
Please note contours reflect the actual extent of flooding within the Flood Planning Area including riverine floods, overland flow impacted by riverine backwater, and significant overland paths derived from flood simulation results. The flood contour excludes the uppermost catchment local depth of flow 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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Parramatta River Flood Study

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 1p_SensitivityPlus20_FLCD_5k.mxd
 Rev: 04
 Date: 2023-06-12

Legend

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

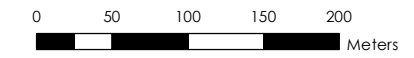
MN+20% Flood Depth (m)

- 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 M2.22

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

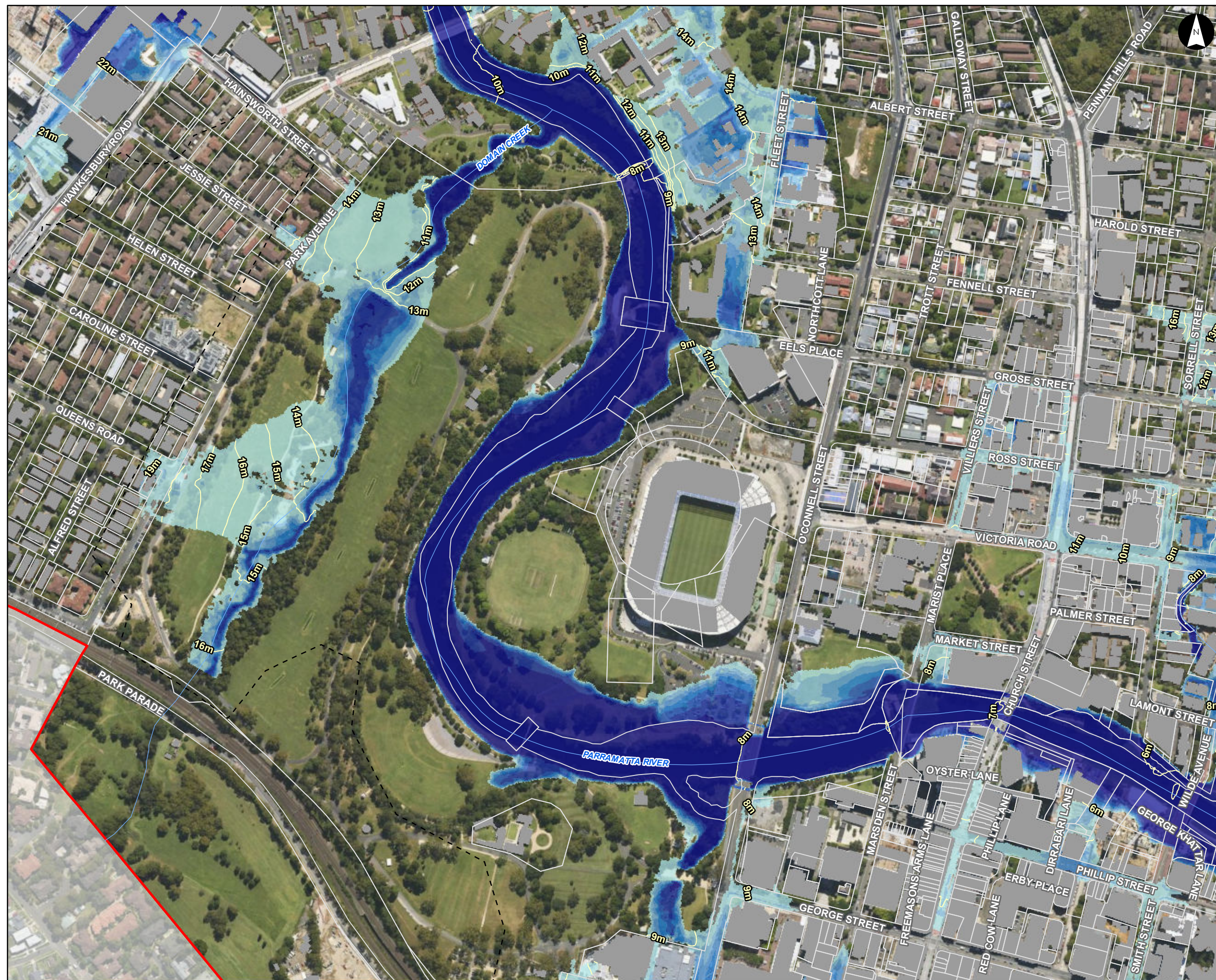
References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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Legend

- Study Area
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- Tufflow Model Extent

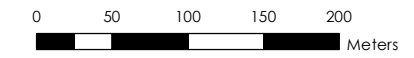
MN+20% Flood Depth (m)

- 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

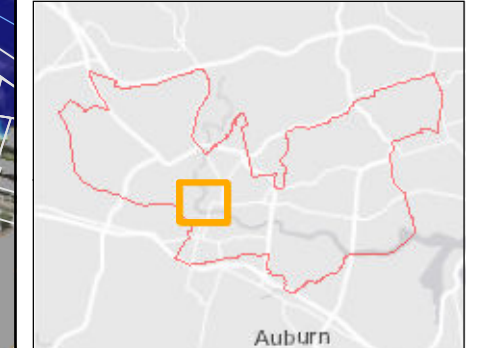
Figure M2.23

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

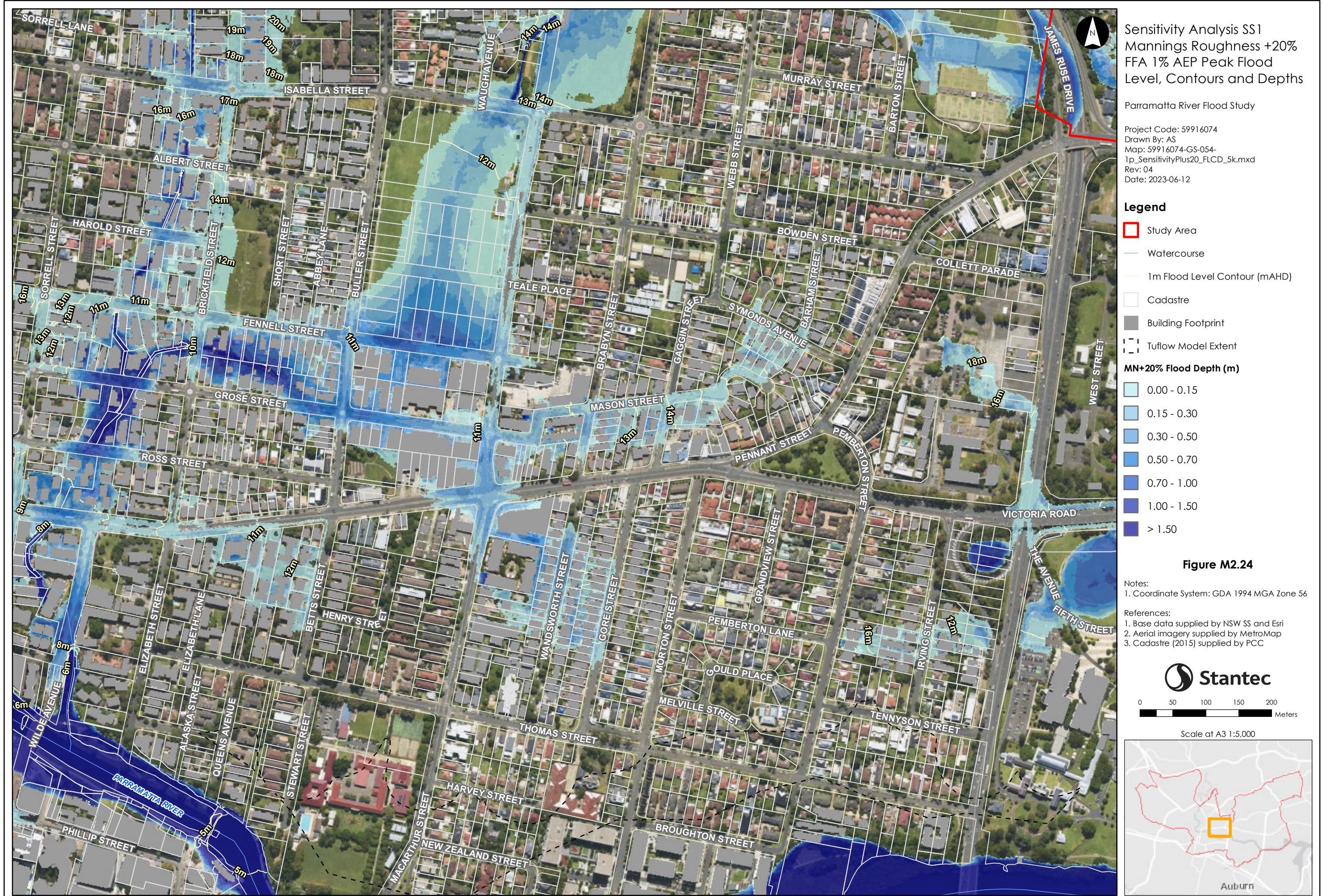
References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



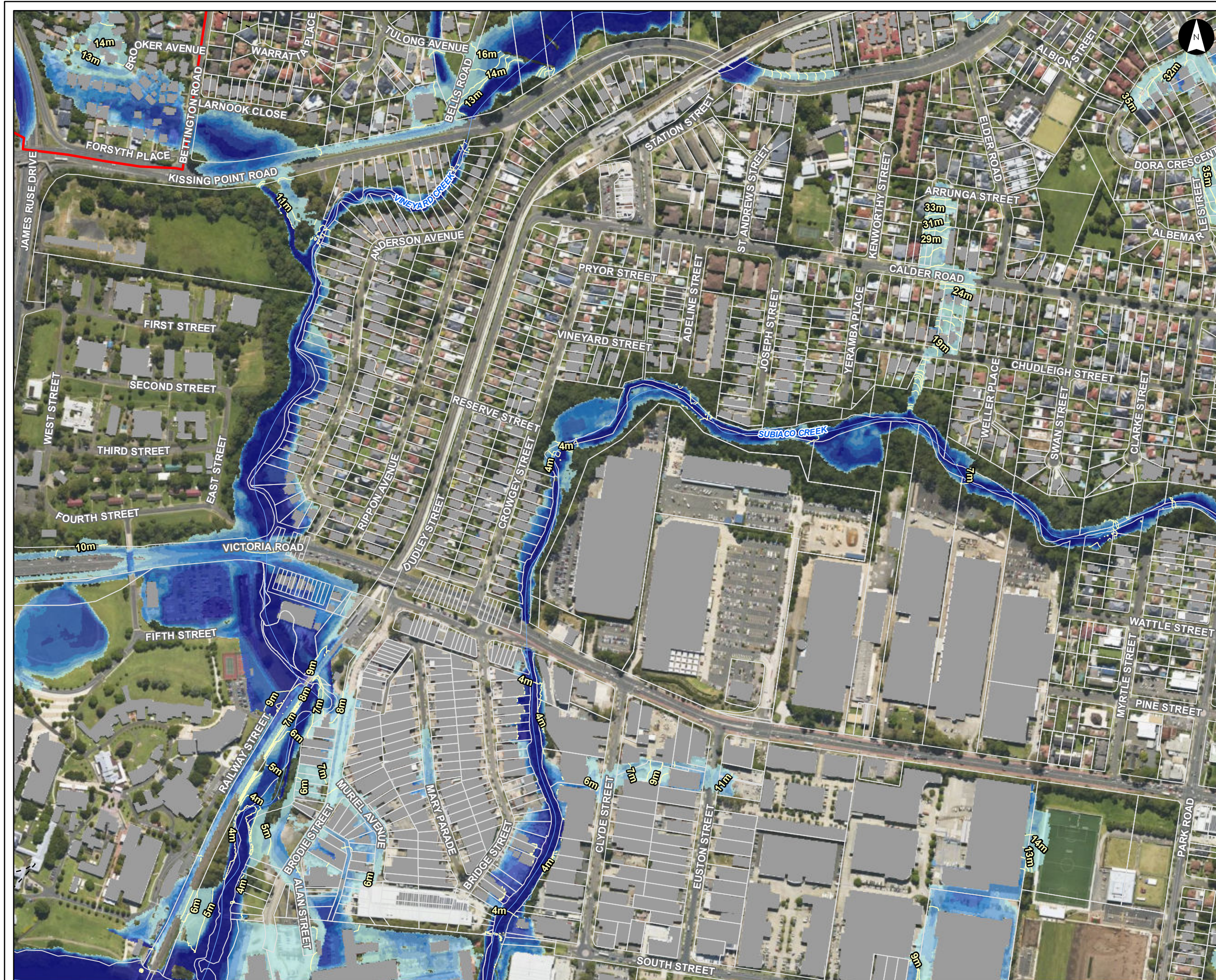
Scale at A3 1:5,000



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Legend

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

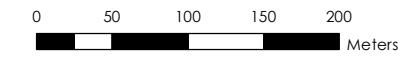
MN+20% Flood Depth (m)

- 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

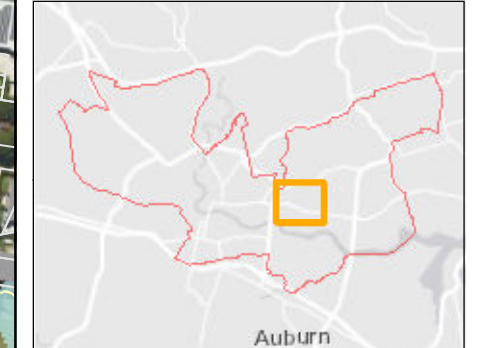
Figure M2.25

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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Parramatta River Flood Study

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Legend

- Study Area
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- 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 M2.26

Notes:

- Coordinate System: GDA 1994 MGA Zone 56

References:

- Base data supplied by NSW SS and Esri
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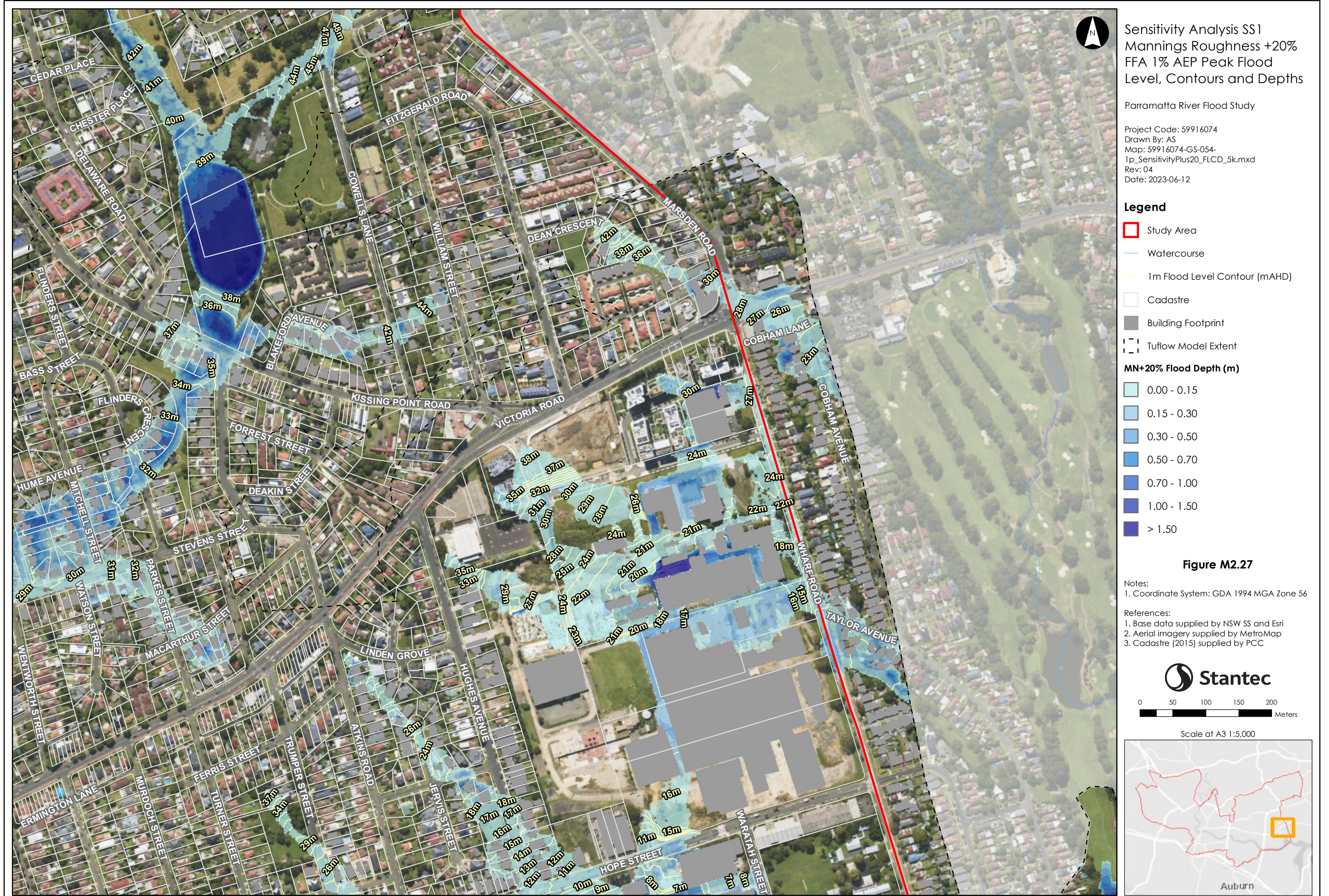
Stantec

0 50 100 150 200
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Scale at A3 1:5,000



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Legend

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- Cadastre
- Building Footprint
- Tuflow Model Extent

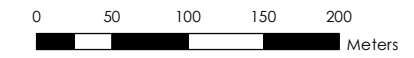
MN+20% Flood Depth (m)

- 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 M2.27

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

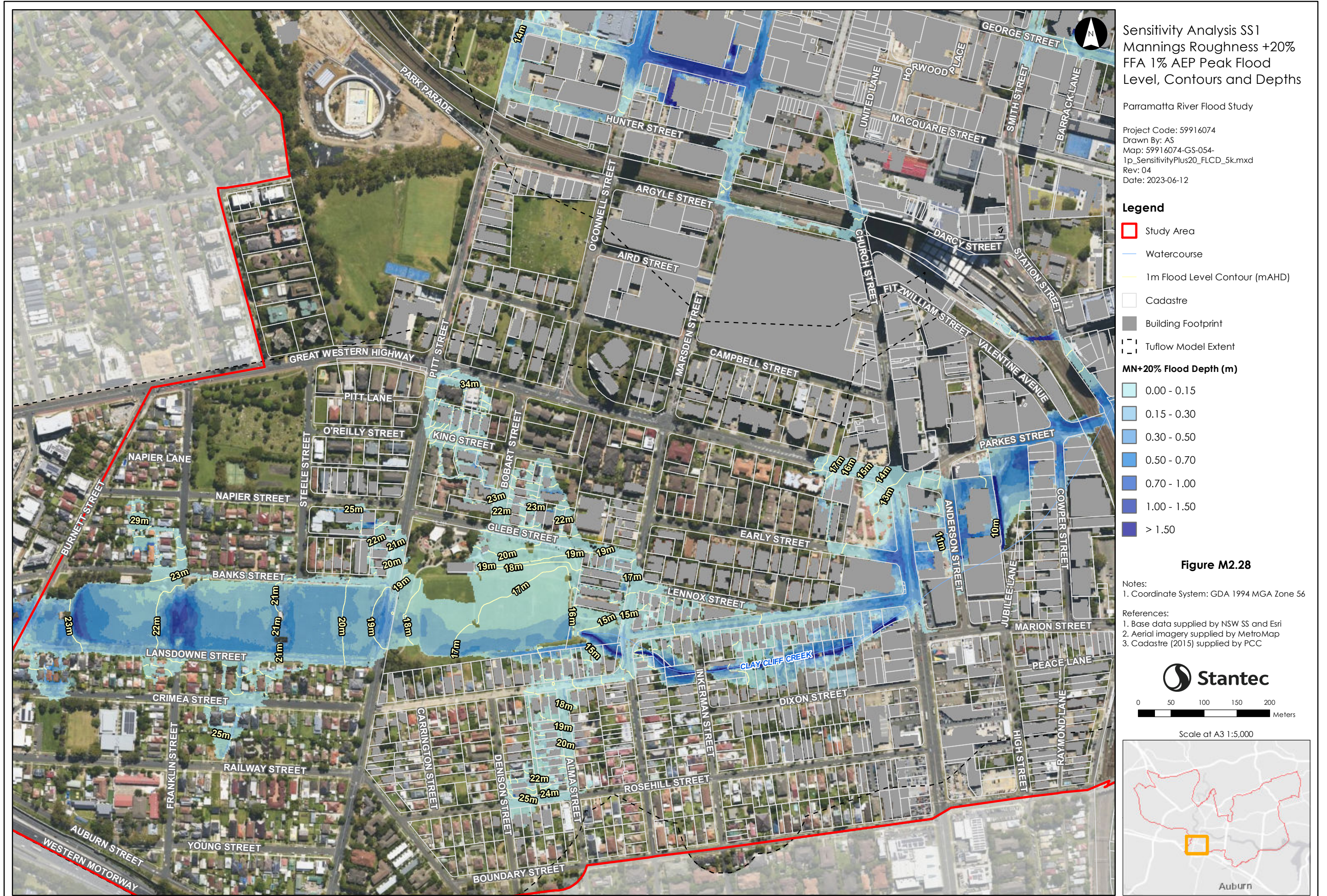
References:
 1. Base data supplied by NSW SS and Esri
 2. Aerial imagery supplied by MetroMap
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000

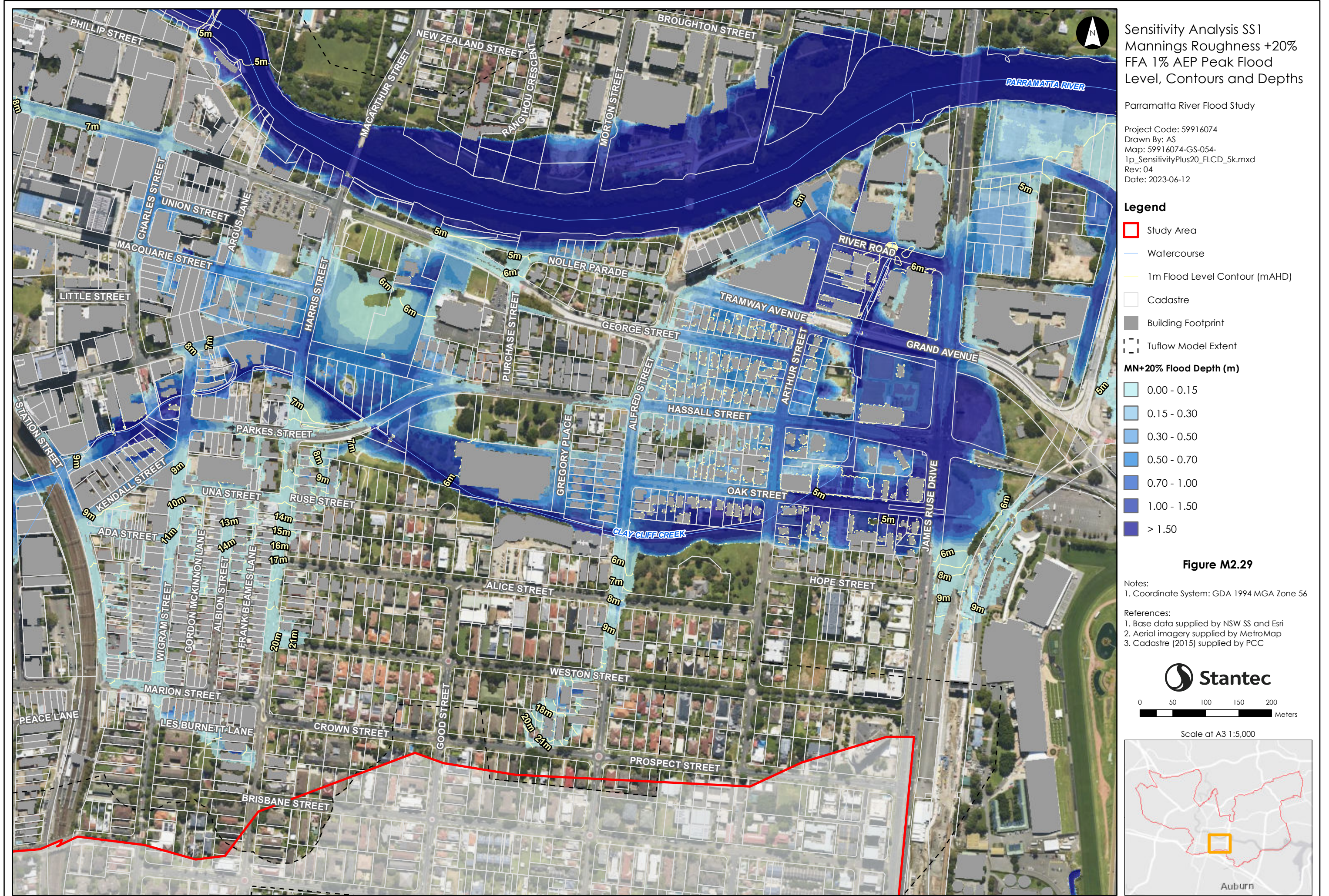


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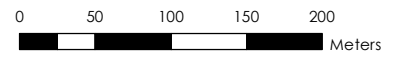
Legend

- Study Area
 - Watercourse
 - 1m Flood Level Contour (mAHD)
 - Cadastre
 - Building Footprint
 - 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 M2.29

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

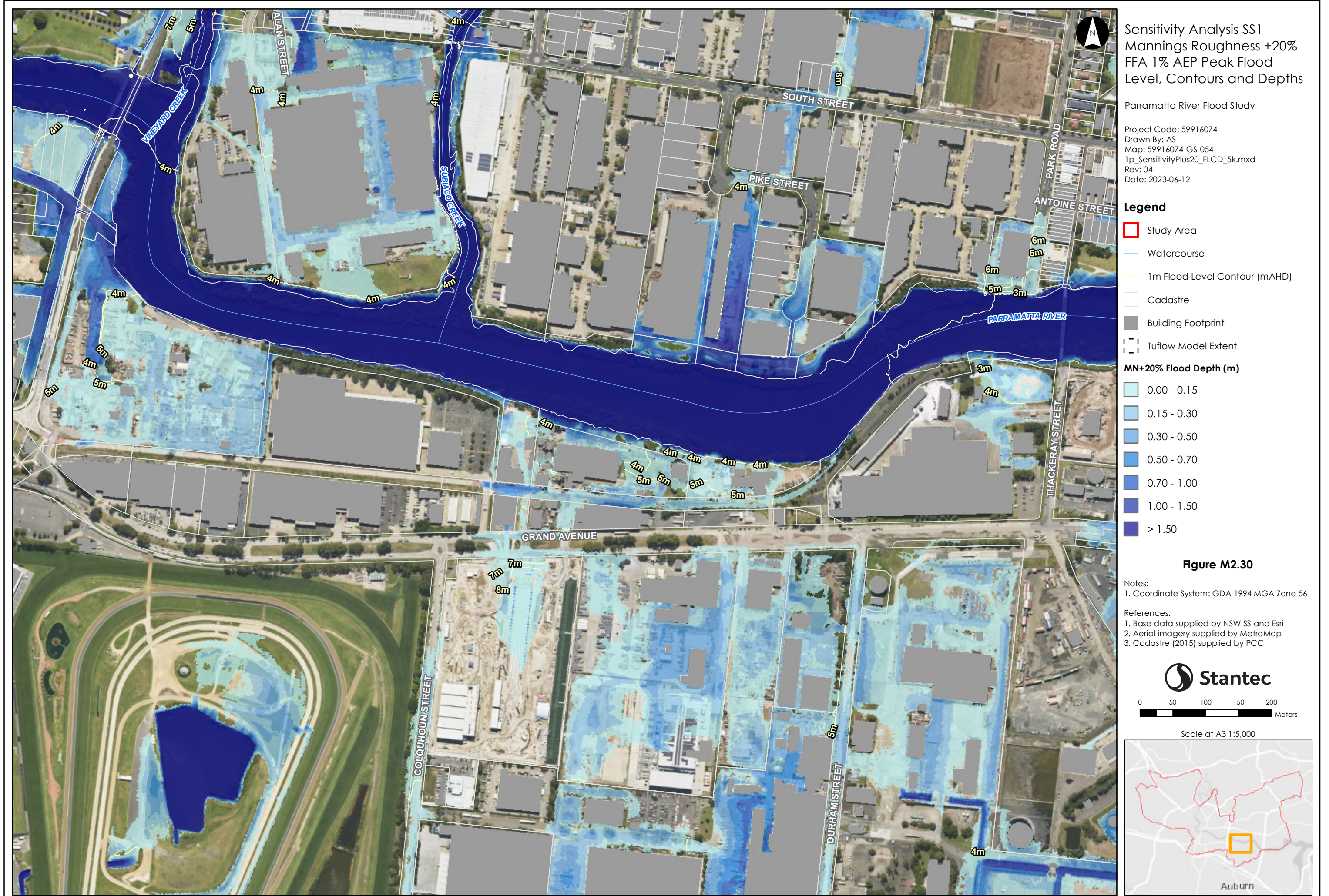
References:
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Legend

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

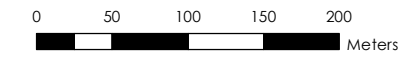
MN+20% Flood Depth (m)

- 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 M2.30

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

- References:
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 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
- Tufflow Model Extent

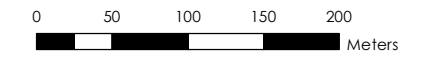
MN+20% Flood Depth (m)

- 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 M2.31

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

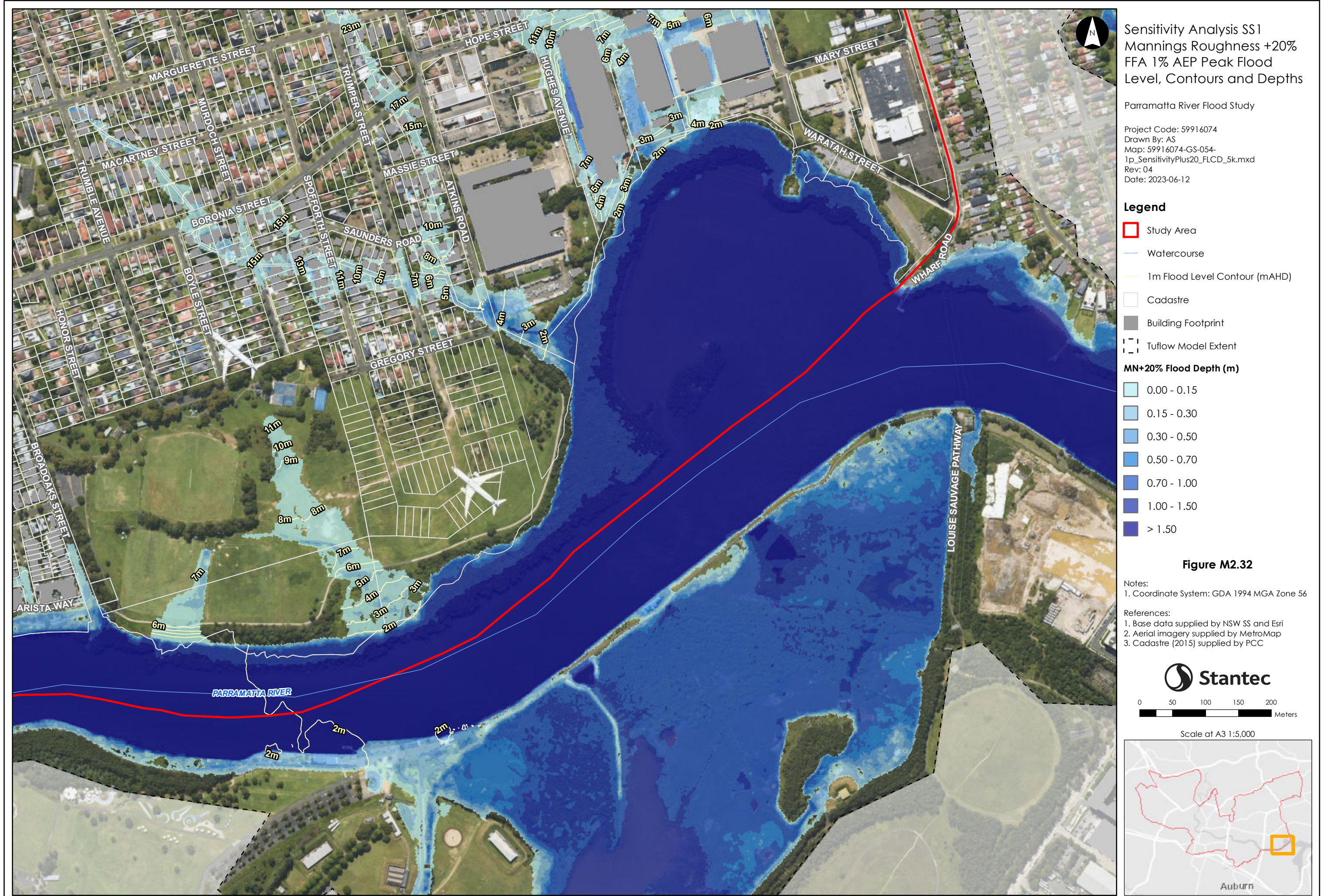
References:
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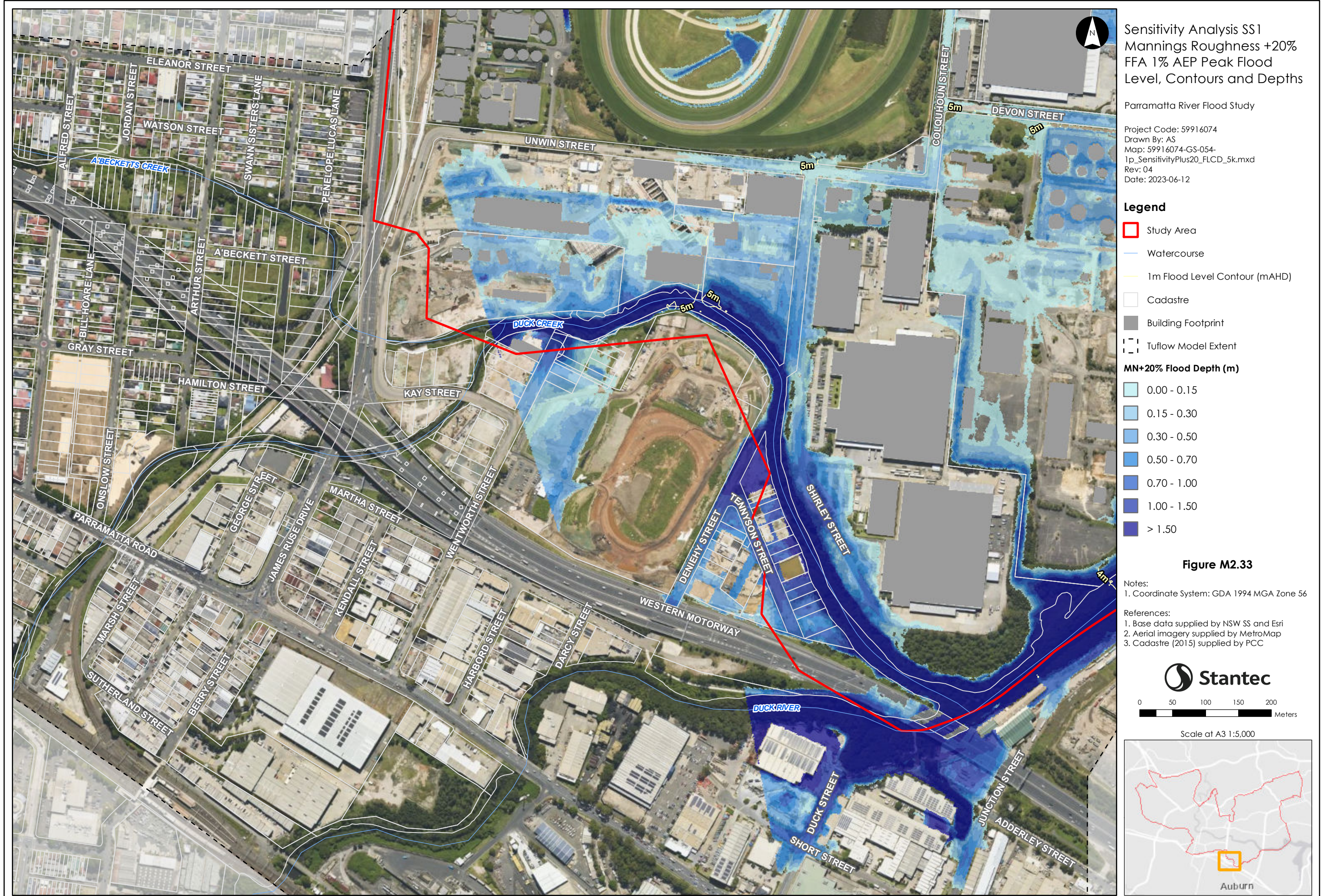
Scale at A3 1:5,000



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