

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 SS2  
 Mannings Roughness -20%  
 FFA 1% AEP Peak Flood  
 Level Difference Plot

Parramatta River Flood Study

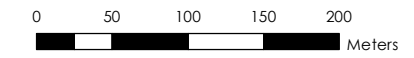
Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

- Study Area
  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
 Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - <math>< -0.5</math>
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.1**

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  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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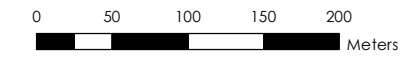
Sensitivity Analysis SS2  
 Mannings Roughness -20%  
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 Level Difference Plot

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 Project Code: 59916074  
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- Study Area
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- Cadastre
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- Tuflow Model Extent
- MN-20% less Design FFA 1%  
Water Level Difference (m)**
- Was Wet Now Dry
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- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.2**

- 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



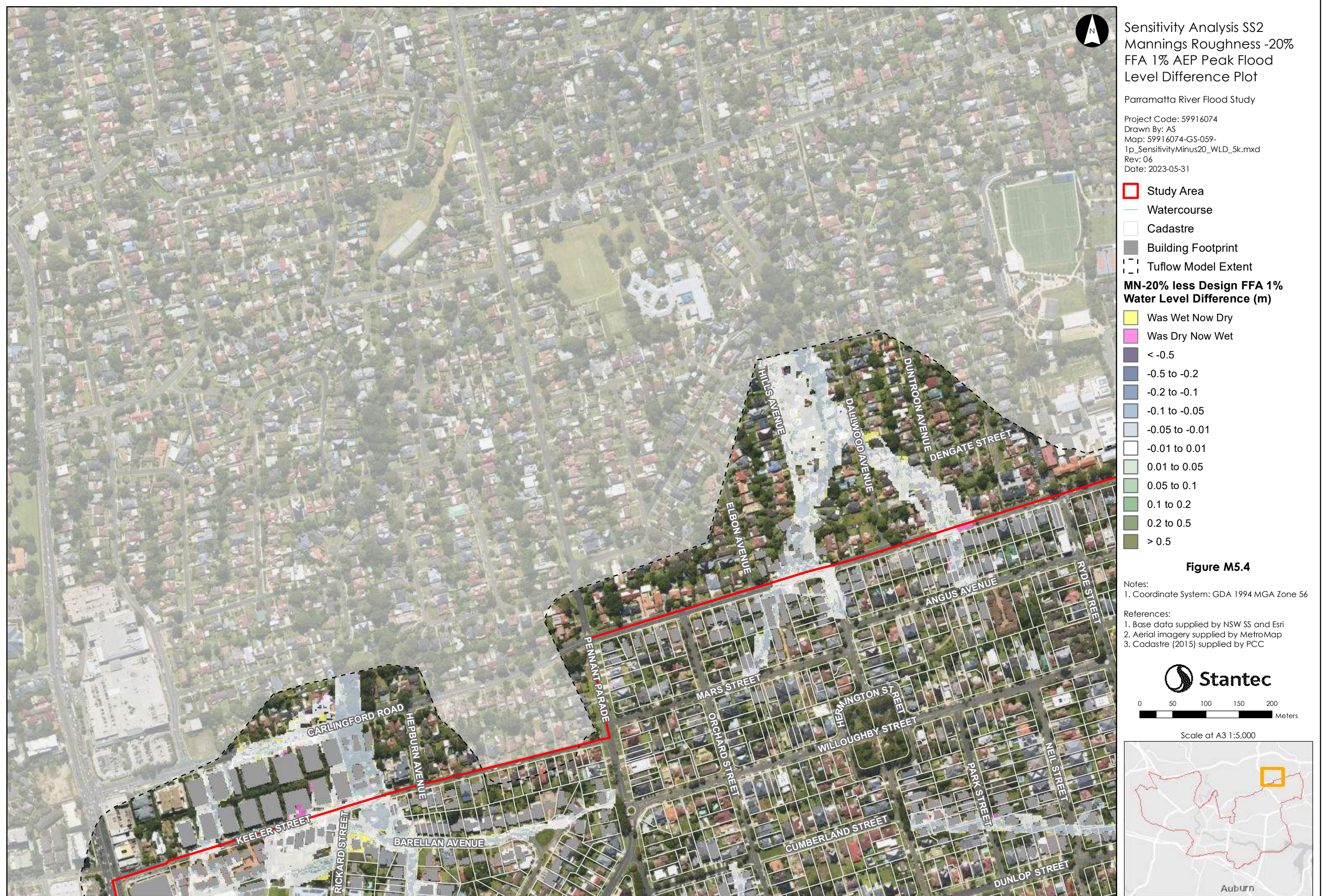
Scale at A3 1:5,000



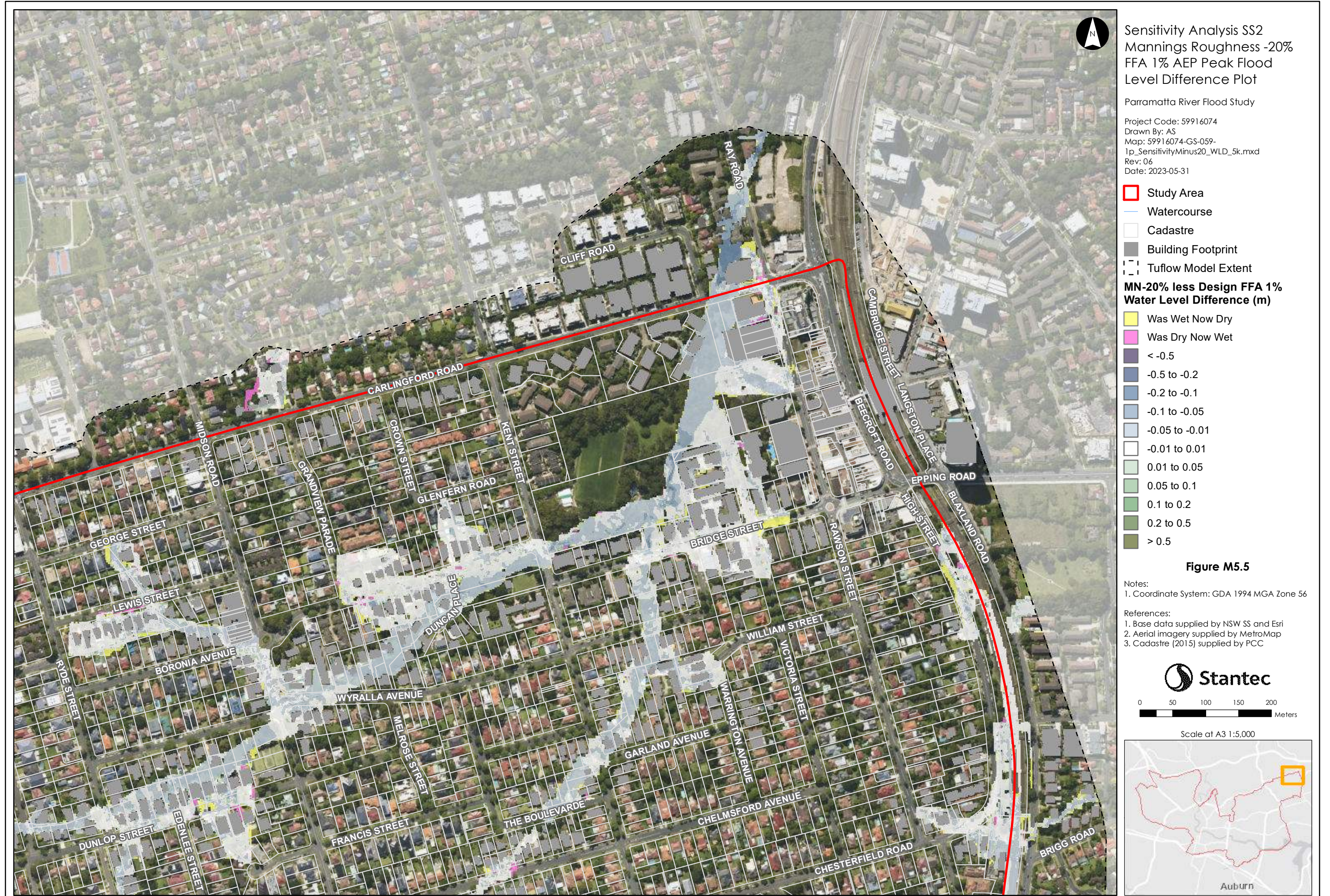
Please note contours reflect the actual extent of flooding within the Flood Planning Area including riverine floods, overland flow impacted by riverine backwater, and significant overland paths derived from flood simulation results. The flood contour excludes the uppermost catchment local depth of flow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



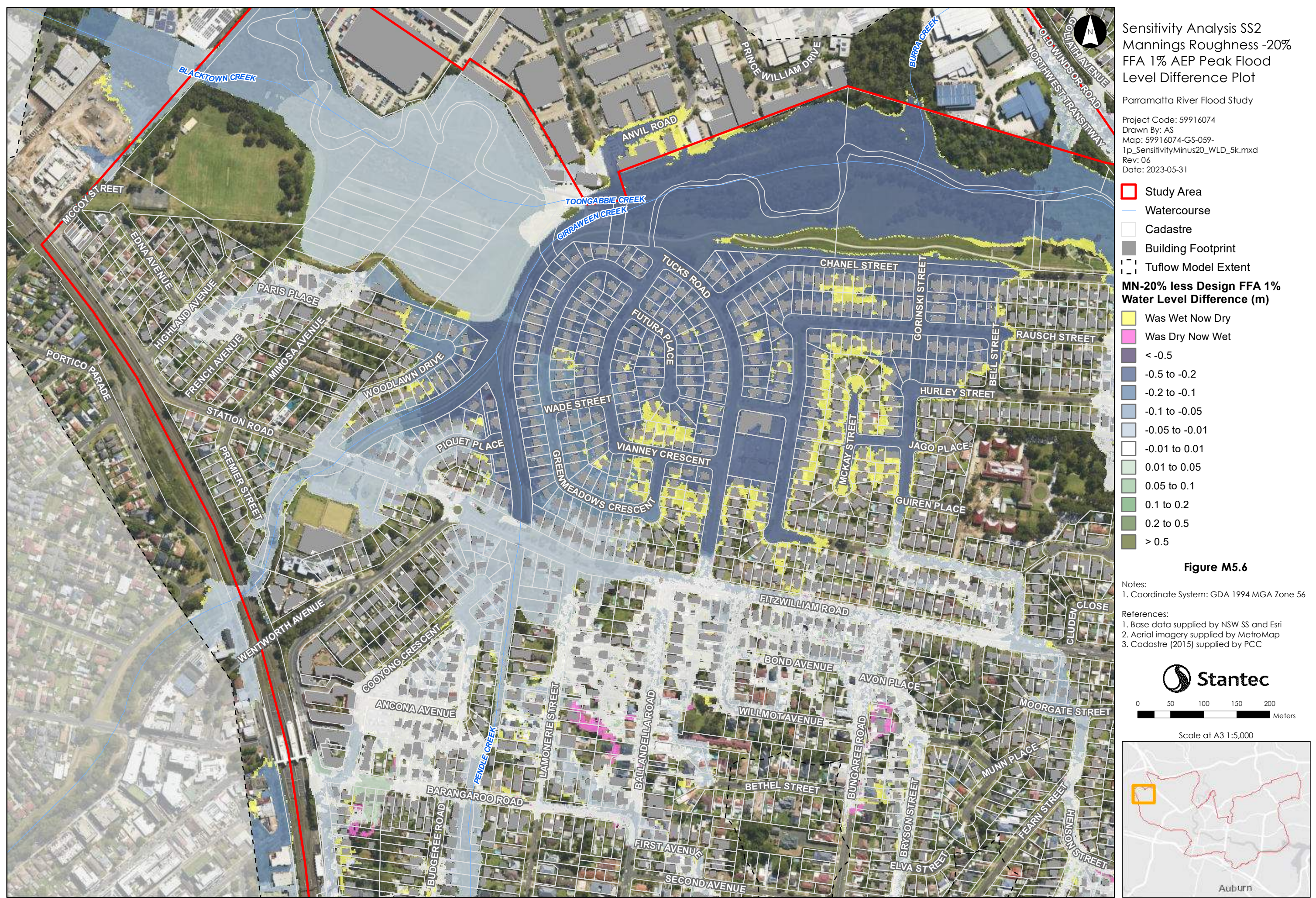
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Sensitivity Analysis SS2  
 Mannings Roughness -20%  
 FFA 1% AEP Peak Flood  
 Level Difference Plot

Parramatta River Flood Study

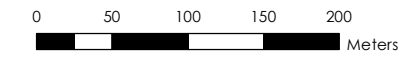
Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

- Study Area
  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
 Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - < -0.5
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.6**

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

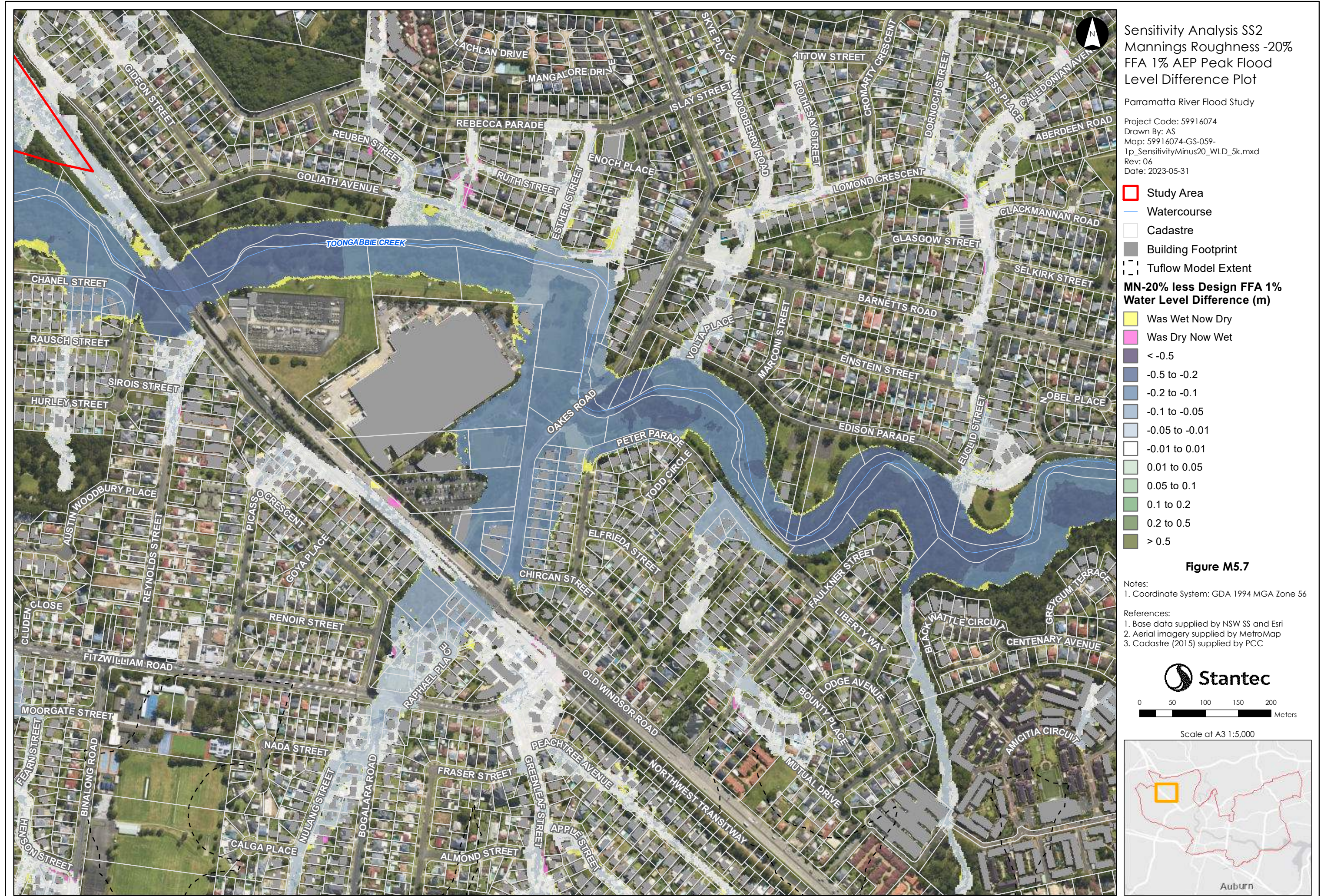
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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

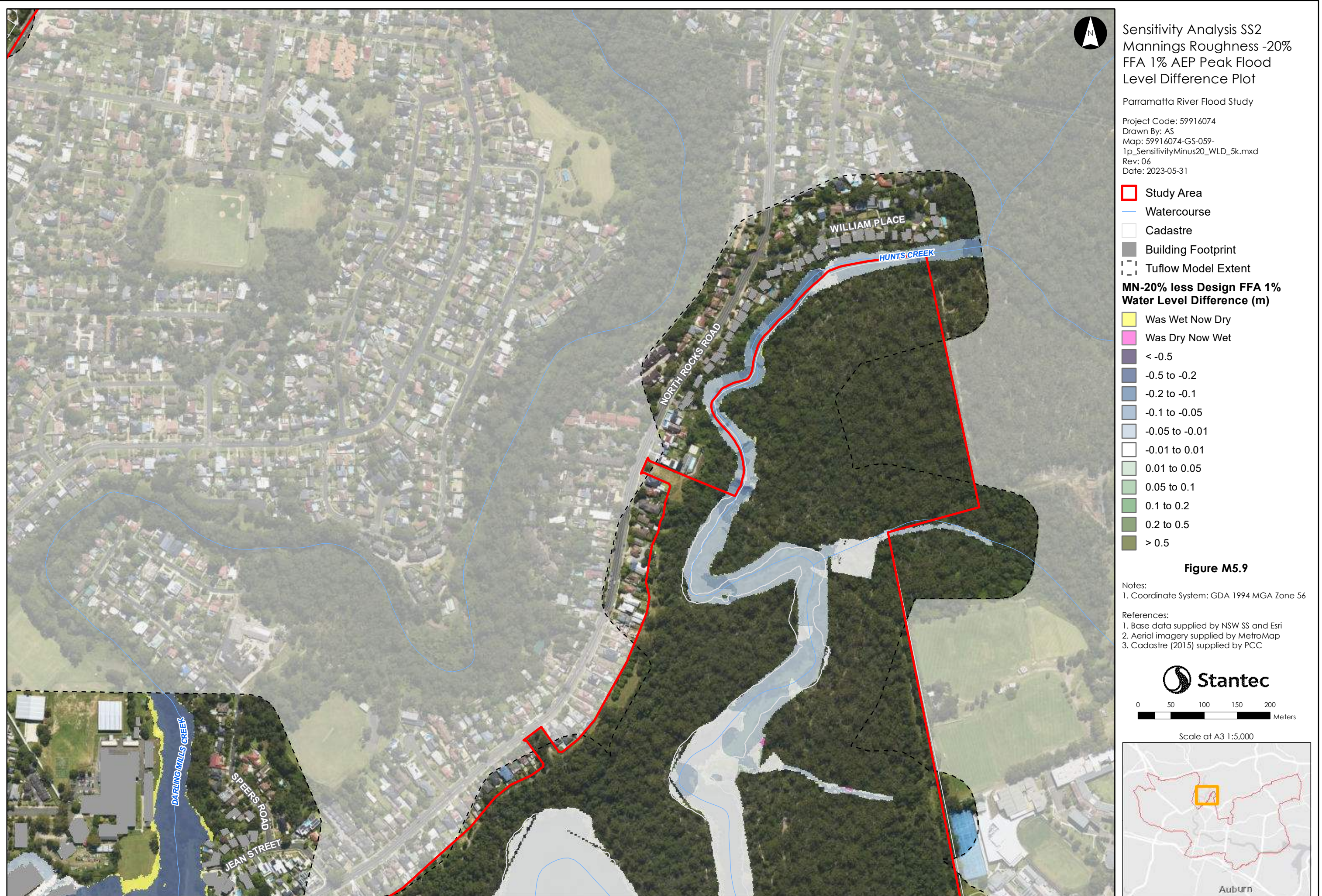


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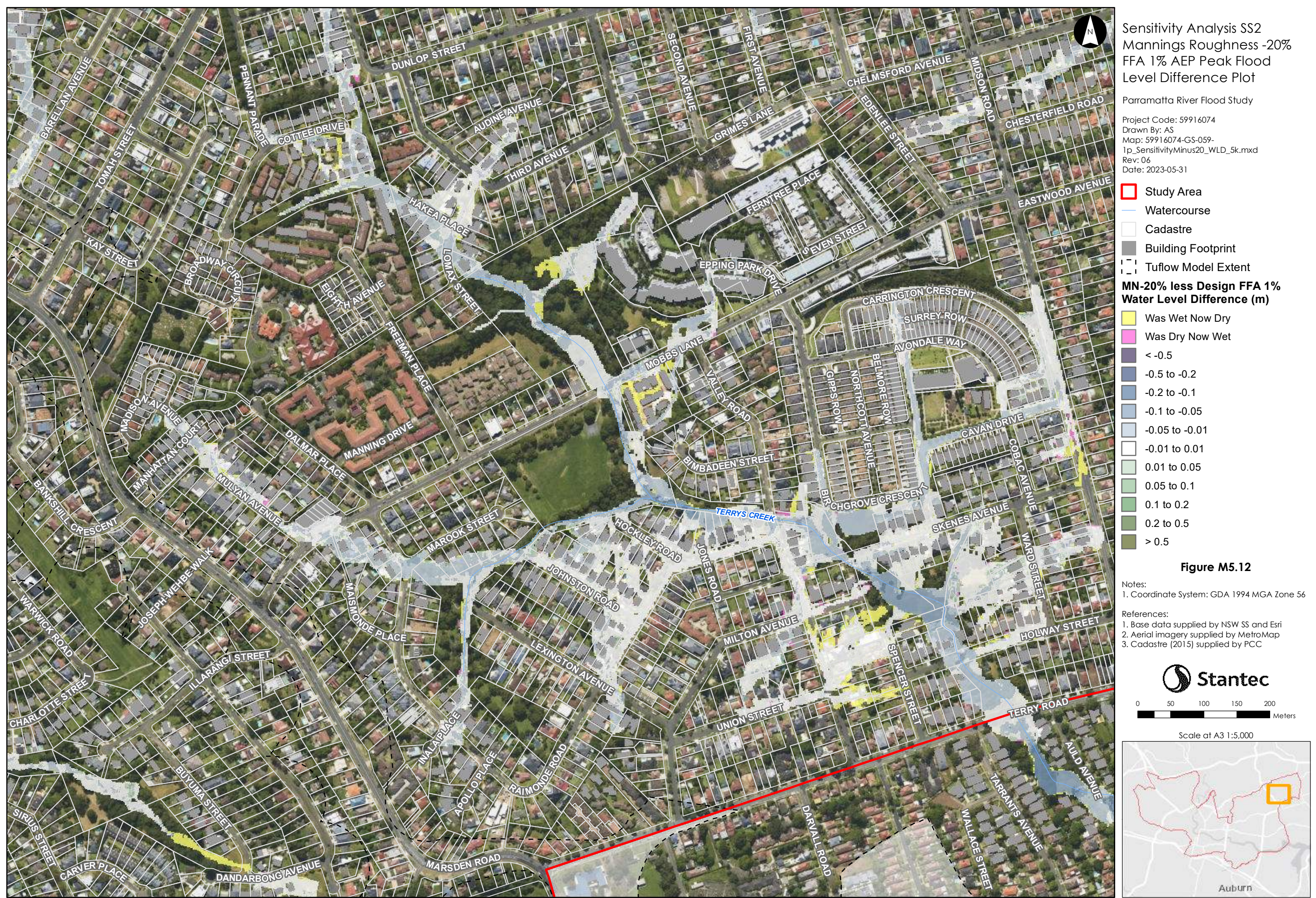
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**Sensitivity Analysis SS2**  
**Mannings Roughness -20%**  
**FFA 1% AEP Peak Flood**  
**Level Difference Plot**

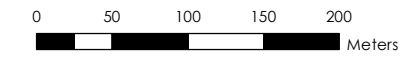
Parramatta River Flood Study  
 Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

- Study Area
- Watercourse
- Cadastre
- Building Footprint
- Tuflow Model Extent
- MN-20% less Design FFA 1%  
Water Level Difference (m)**
- Was Wet Now Dry
- Was Dry Now Wet
- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.13**

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

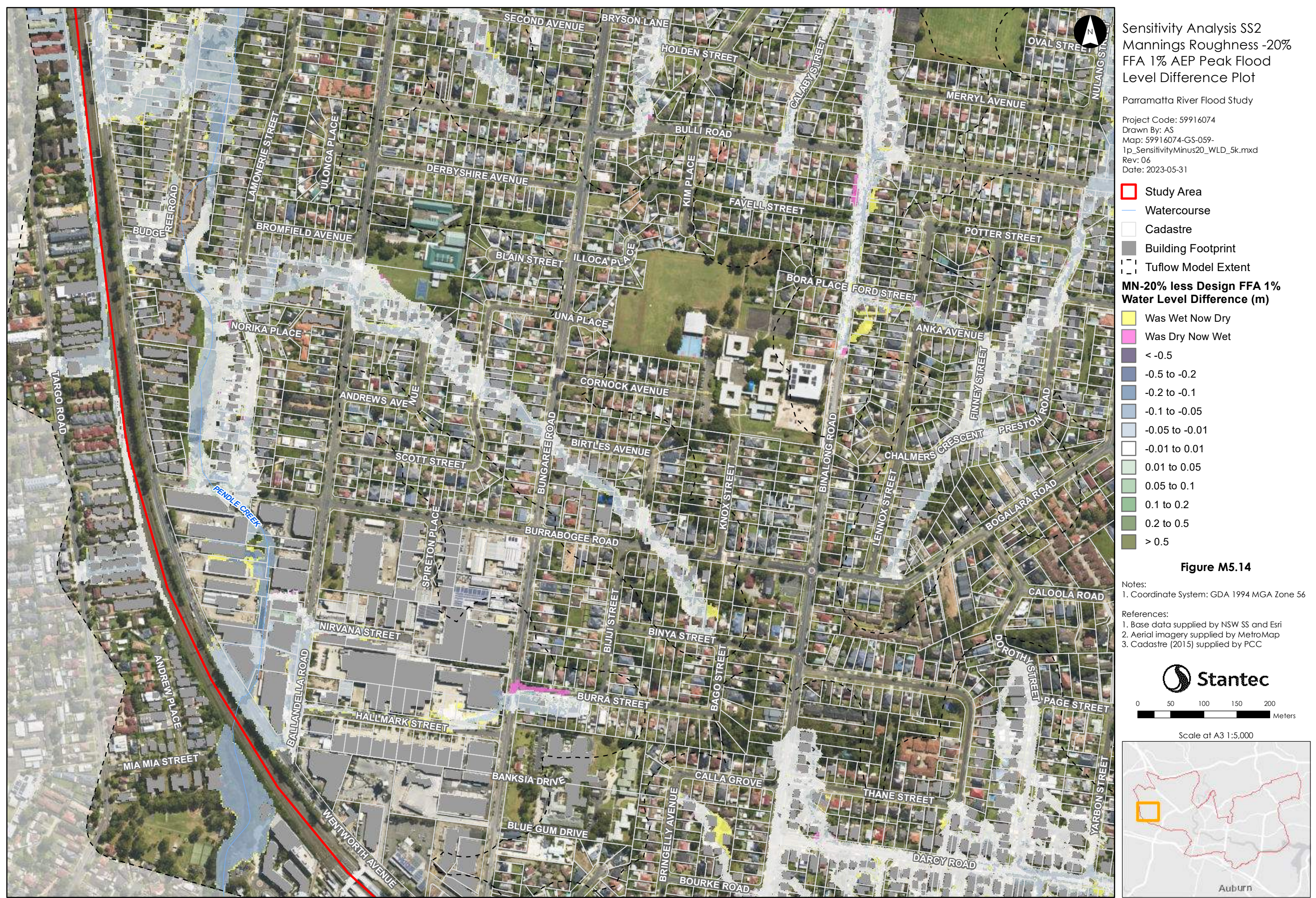
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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 10.7 (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 Difference Plot

Parramatta River Flood Study

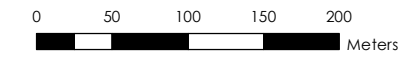
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 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
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- Study Area
  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
 Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - < -0.5
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.15**

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

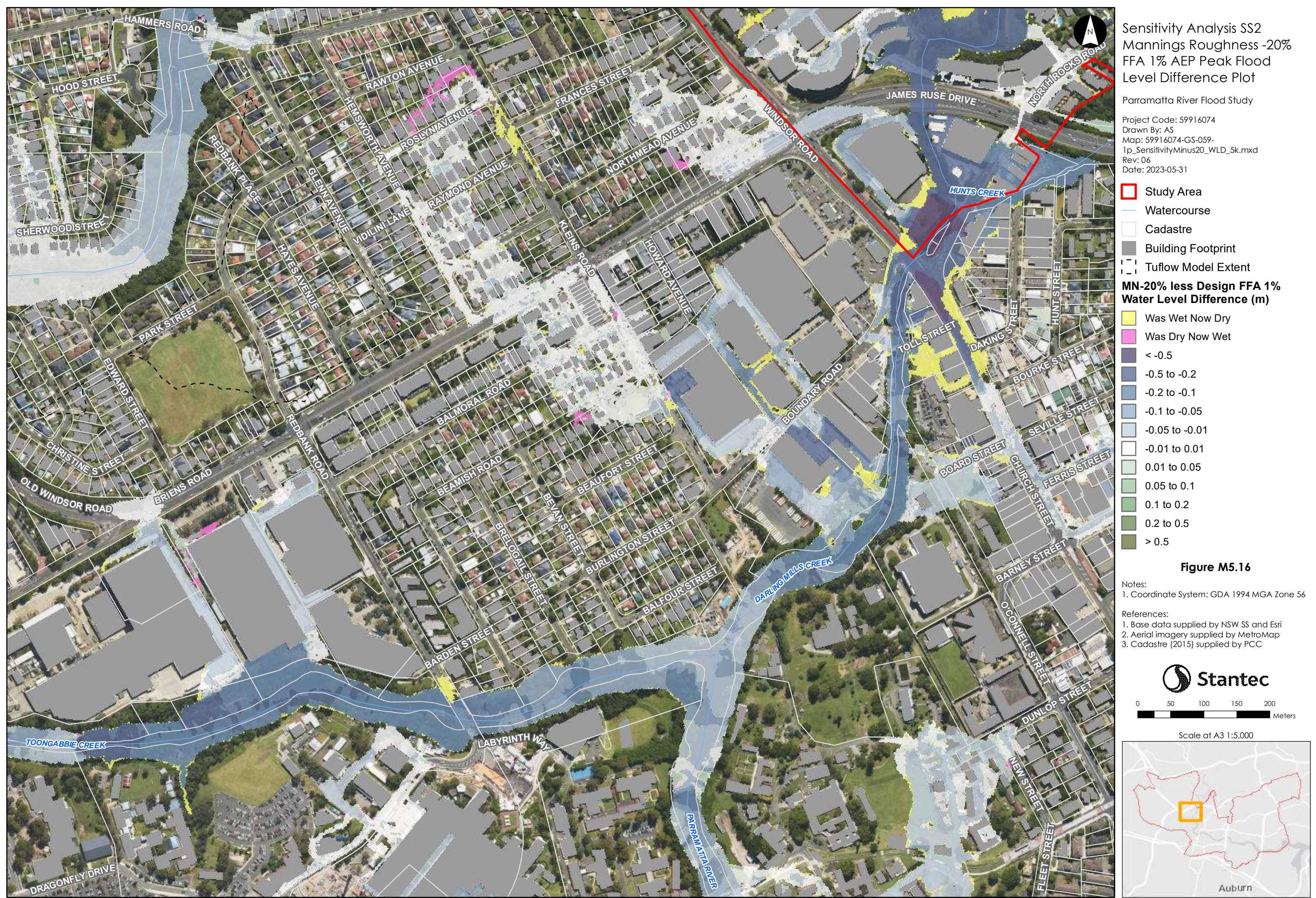
References:  
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 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000

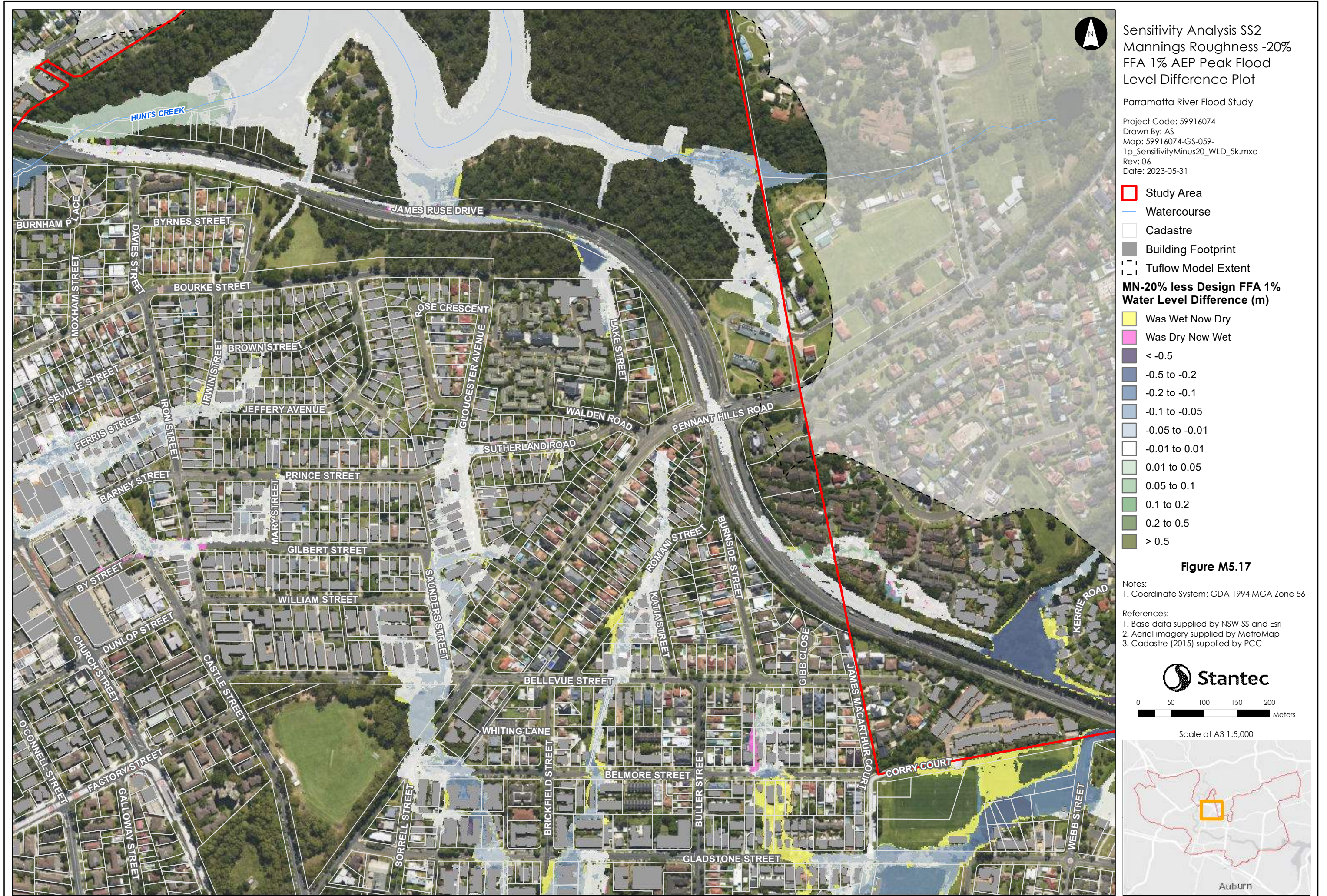


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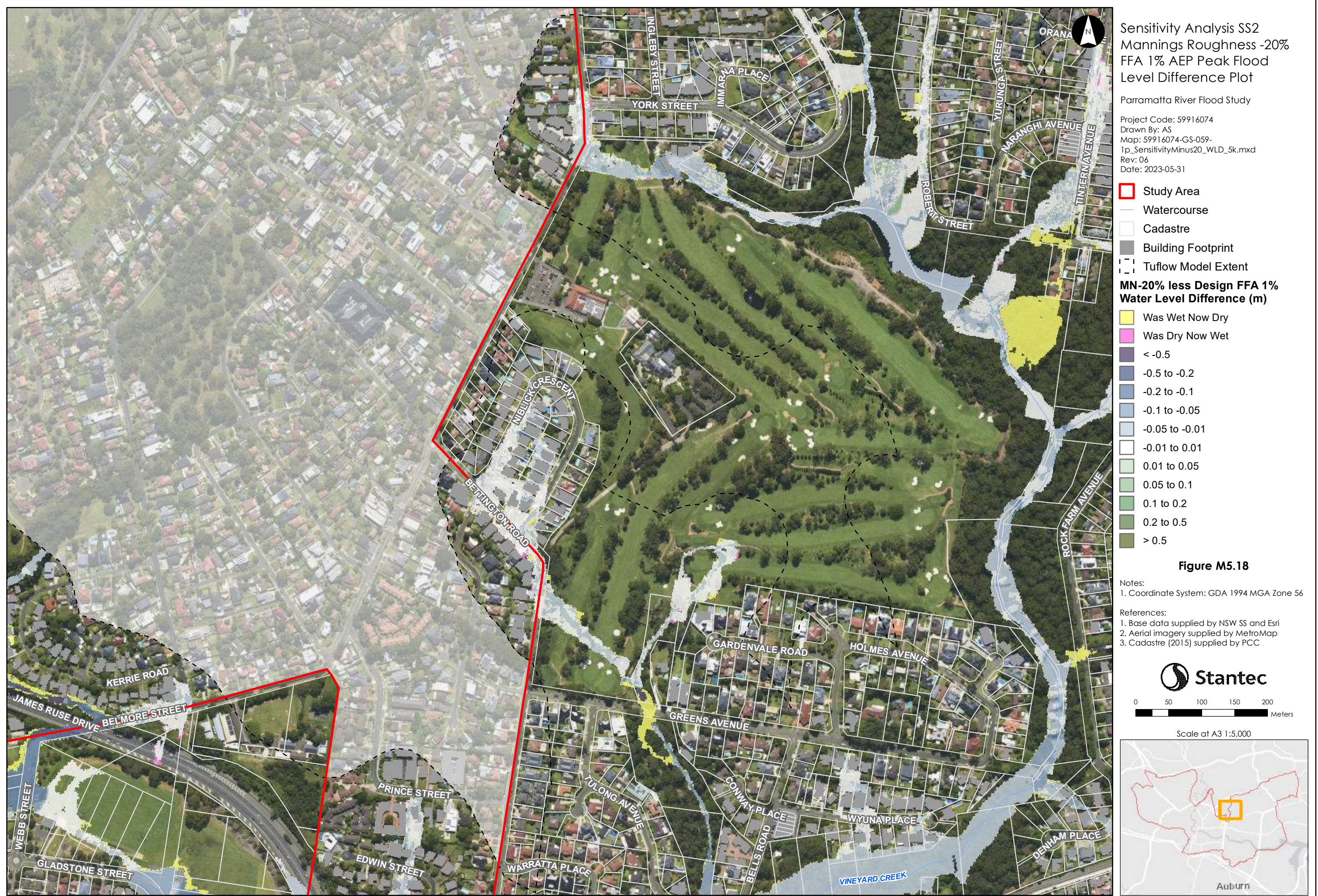




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 Mannings Roughness -20%  
 FFA 1% AEP Peak Flood  
 Level Difference Plot

Parramatta River Flood Study  
 Project Code: 59916074  
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 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

**Study Area**

- Study Area
- Watercourse
- Cadastre
- Building Footprint
- Tuflow Model Extent

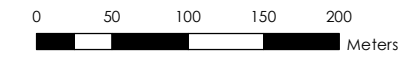
**MN-20% less Design FFA 1%  
 Water Level Difference (m)**

- Was Wet Now Dry
- Was Dry Now Wet
- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.19**

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



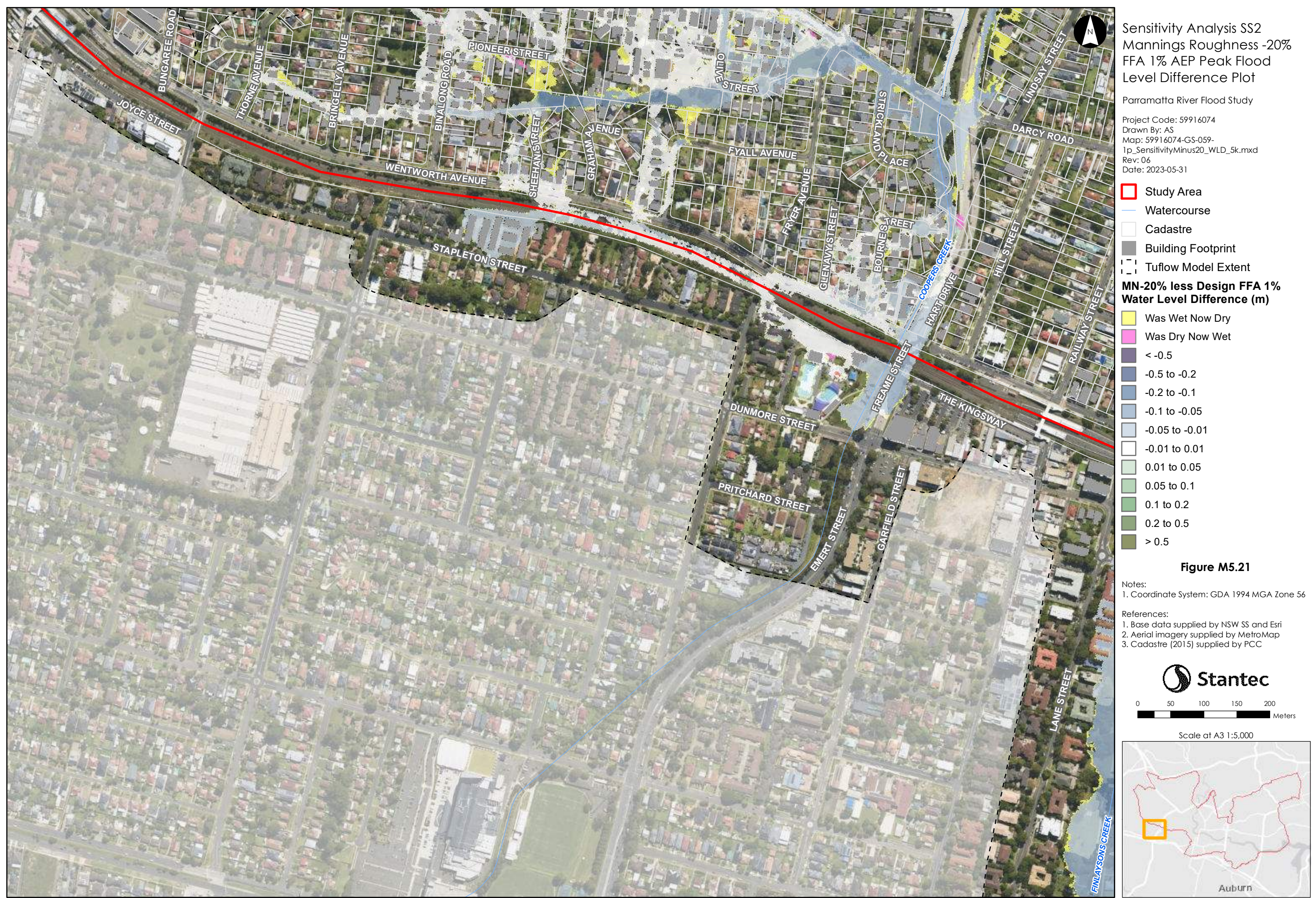
Scale at A3 1:5,000



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Parramatta River Flood Study

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 Rev: 06  
 Date: 2023-05-31

**Study Area**

- Watercourse
- Cadastre
- Building Footprint
- Tuflow Model Extent

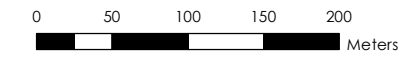
**MN-20% less Design FFA 1%  
 Water Level Difference (m)**

- Was Wet Now Dry
- Was Dry Now Wet
- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.22**

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

References:  
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Scale at A3 1:5,000



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 Rev: 06  
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**Study Area**

- Study Area
- Watercourse
- Cadastre
- Building Footprint
- Tuflow Model Extent

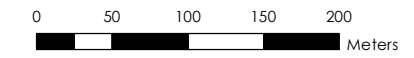
**MN-20% less Design FFA 1%  
 Water Level Difference (m)**

- Was Wet Now Dry
- Was Dry Now Wet
- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.25**

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

References:  
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**Study Area**

- Study Area
- Watercourse
- Cadastre
- Building Footprint
- Tuflow Model Extent

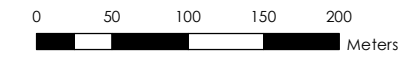
**MN-20% less Design FFA 1%  
 Water Level Difference (m)**

- Was Wet Now Dry
- Was Dry Now Wet
- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.26**

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



Scale at A3 1:5,000



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 FFA 1% AEP Peak Flood  
 Level Difference Plot

Parramatta River Flood Study

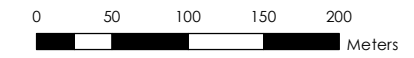
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  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
 Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - <math>-0.5</math>
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.27**

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

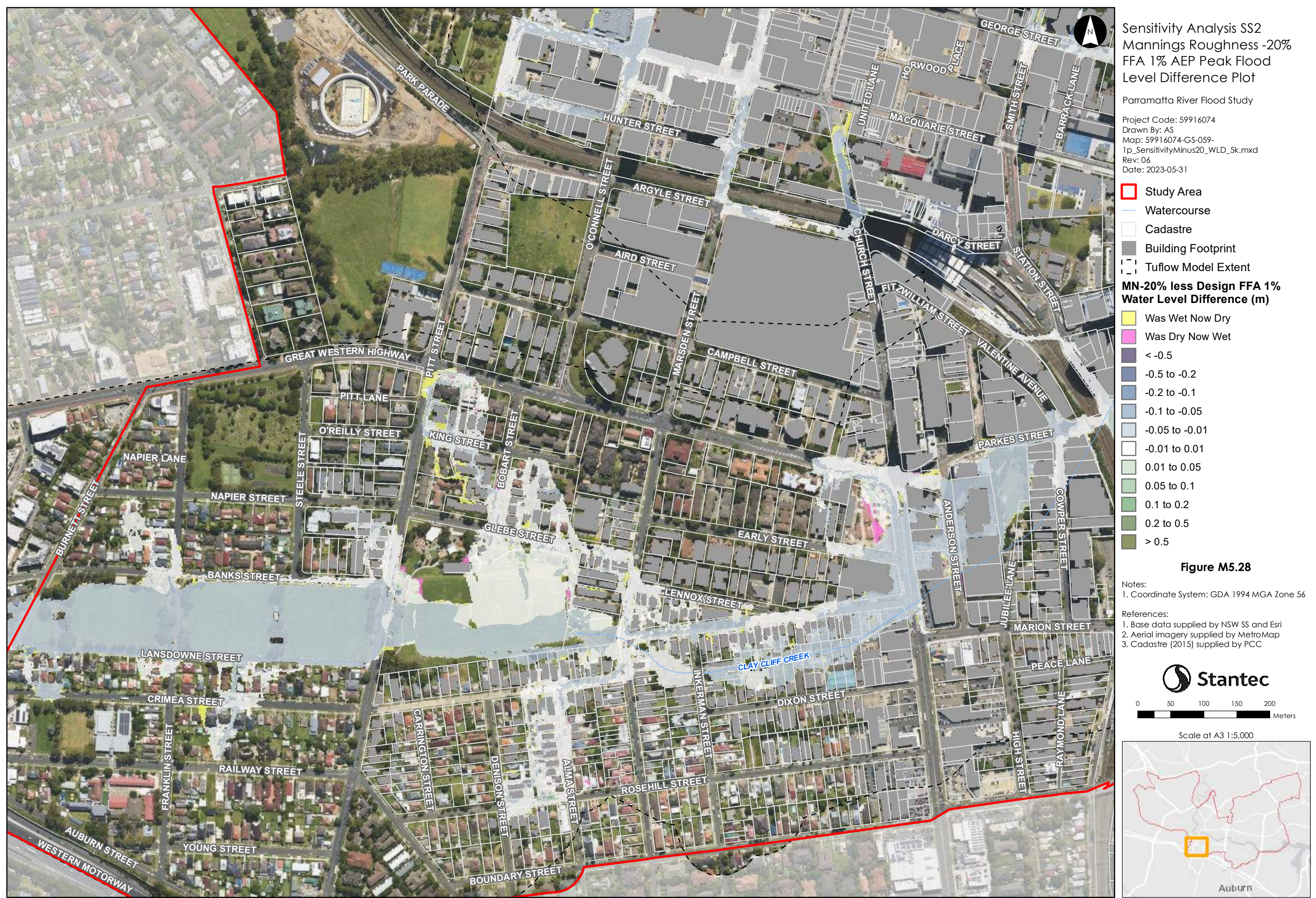
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



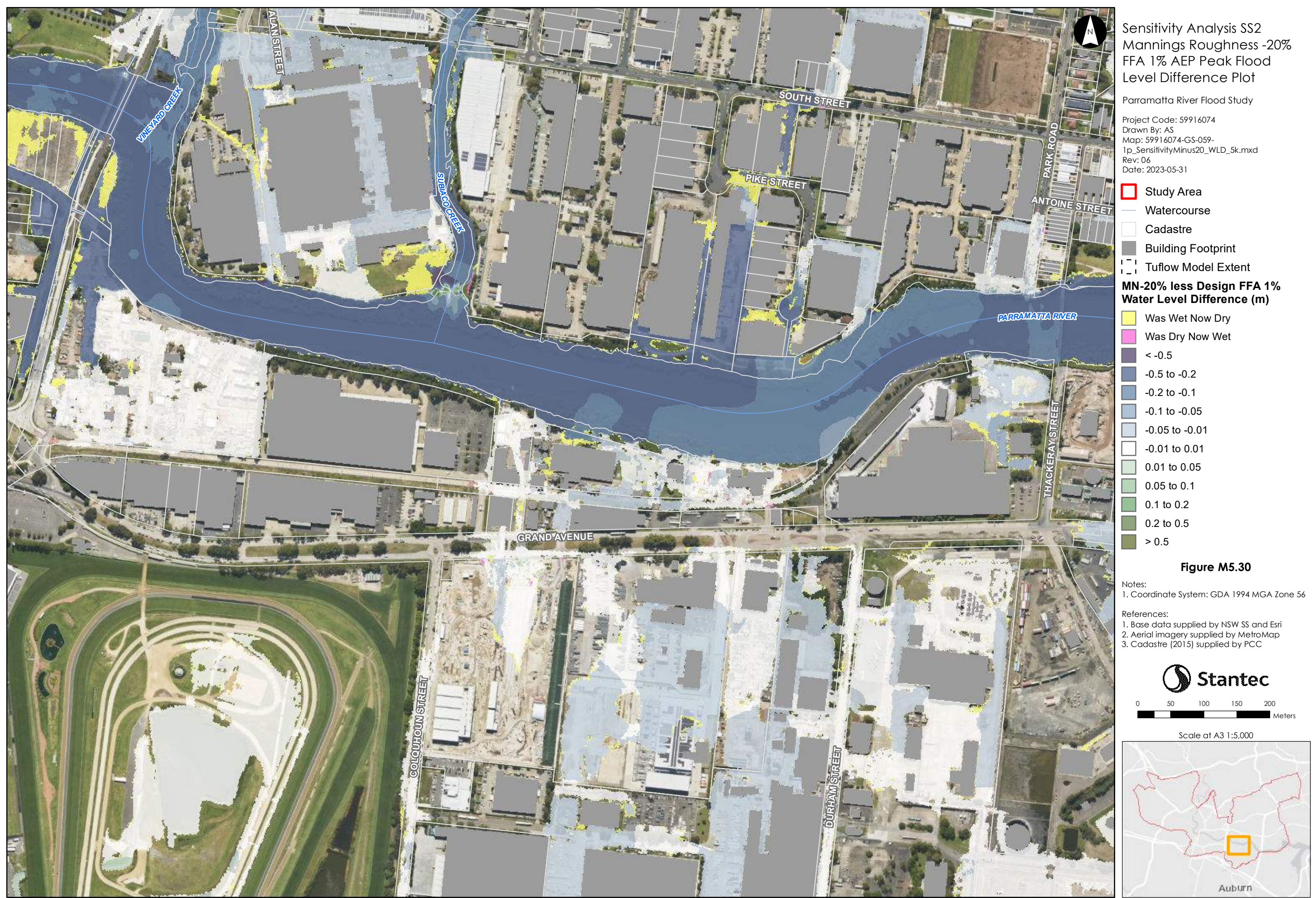
Please note contours reflect the actual extent of flooding within the Flood Planning Area including riverine floods, overland flow impacted by riverine backwater, and significant overland paths derived from flood simulation results. The flood contour excludes the uppermost catchment local depth of flow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



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Sensitivity Analysis SS2  
 Mannings Roughness -20%  
 FFA 1% AEP Peak Flood  
 Level Difference Plot

Parramatta River Flood Study

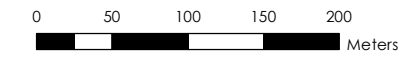
Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

- Study Area
  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
 Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - <math>< -0.5 </math>
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.30**

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 Difference Plot

Parramatta River Flood Study  
 Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

**Study Area**

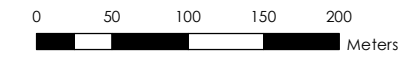
- Watercourse
- Cadastre
- Building Footprint
- Tuflow Model Extent

**MN-20% less Design FFA 1%  
 Water Level Difference (m)**

- Was Wet Now Dry
- Was Dry Now Wet
- < -0.5
- 0.5 to -0.2
- 0.2 to -0.1
- 0.1 to -0.05
- 0.05 to -0.01
- 0.01 to 0.01
- 0.01 to 0.05
- 0.05 to 0.1
- 0.1 to 0.2
- 0.2 to 0.5
- > 0.5

**Figure M5.31**

- 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



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



Sensitivity Analysis SS2  
 Mannings Roughness -20%  
 FFA 1% AEP Peak Flood  
 Level Difference Plot

Parramatta River Flood Study

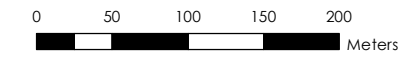
Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-059-  
 1p\_SensitivityMinus20\_WLD\_5k.mxd  
 Rev: 06  
 Date: 2023-05-31

- Study Area
  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
 Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - < -0.5
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.32**

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

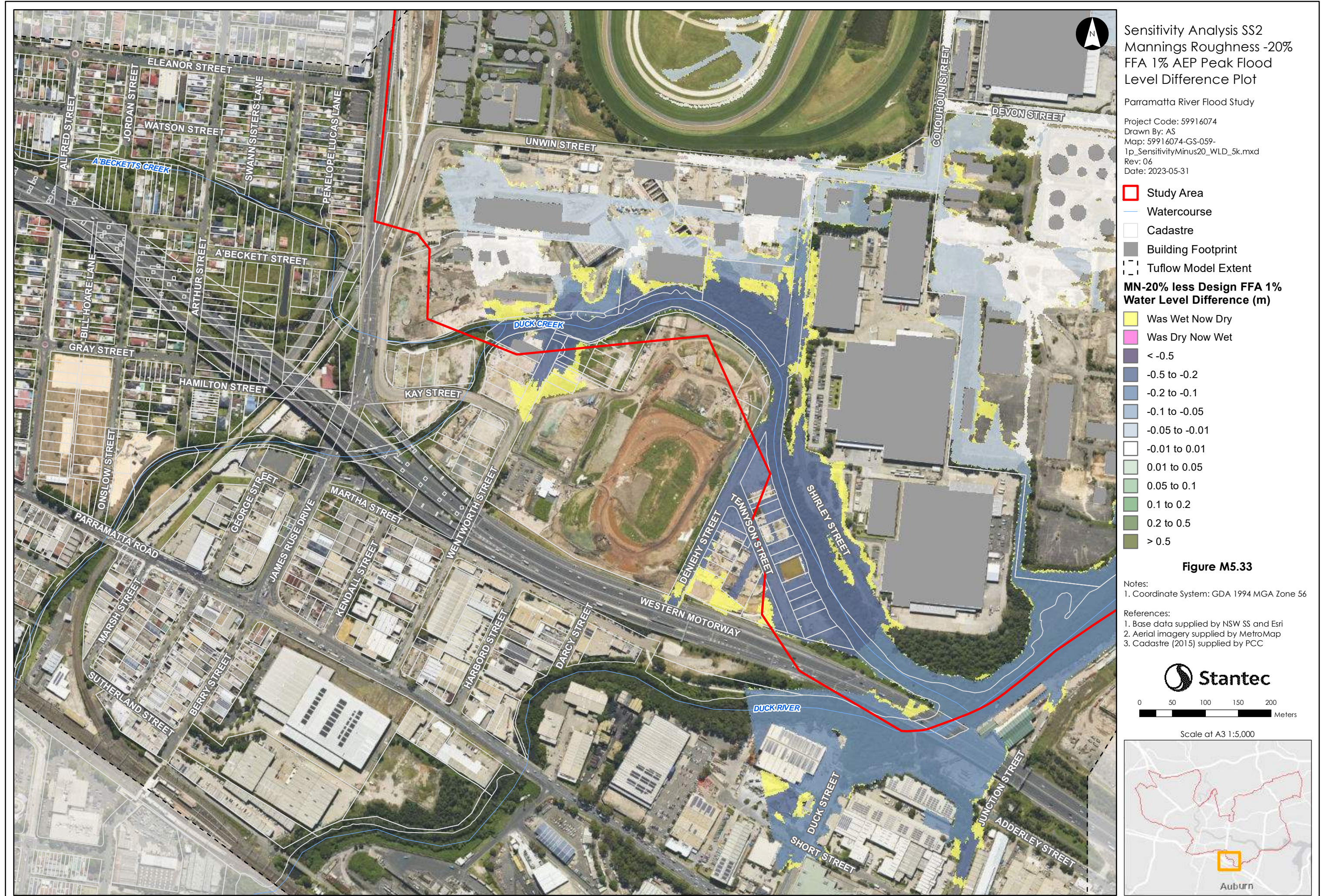


Scale at A3 1:5,000





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Sensitivity Analysis SS2  
Mannings Roughness -20%  
FFA 1% AEP Peak Flood  
Level Difference Plot

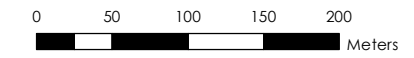
Parramatta River Flood Study

Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-059-  
1p\_SensitivityMinus20\_WLD\_5k.mxd  
Rev: 06  
Date: 2023-05-31

- Study Area
  - Watercourse
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN-20% less Design FFA 1%  
Water Level Difference (m)**
- Was Wet Now Dry
  - Was Dry Now Wet
  - < -0.5
  - 0.5 to -0.2
  - 0.2 to -0.1
  - 0.1 to -0.05
  - 0.05 to -0.01
  - 0.01 to 0.01
  - 0.01 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.2
  - 0.2 to 0.5
  - > 0.5

**Figure M5.33**

- Notes:
1. Coordinate System: GDA 1994 MGA Zone 56
- References:
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Scale at A3 1:5,000



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