

CITY OF BOTANY BAY

MASCOT, ROSEBERY & EASTLAKES FLOOD STUDY

VOLUME 2 - MAPS

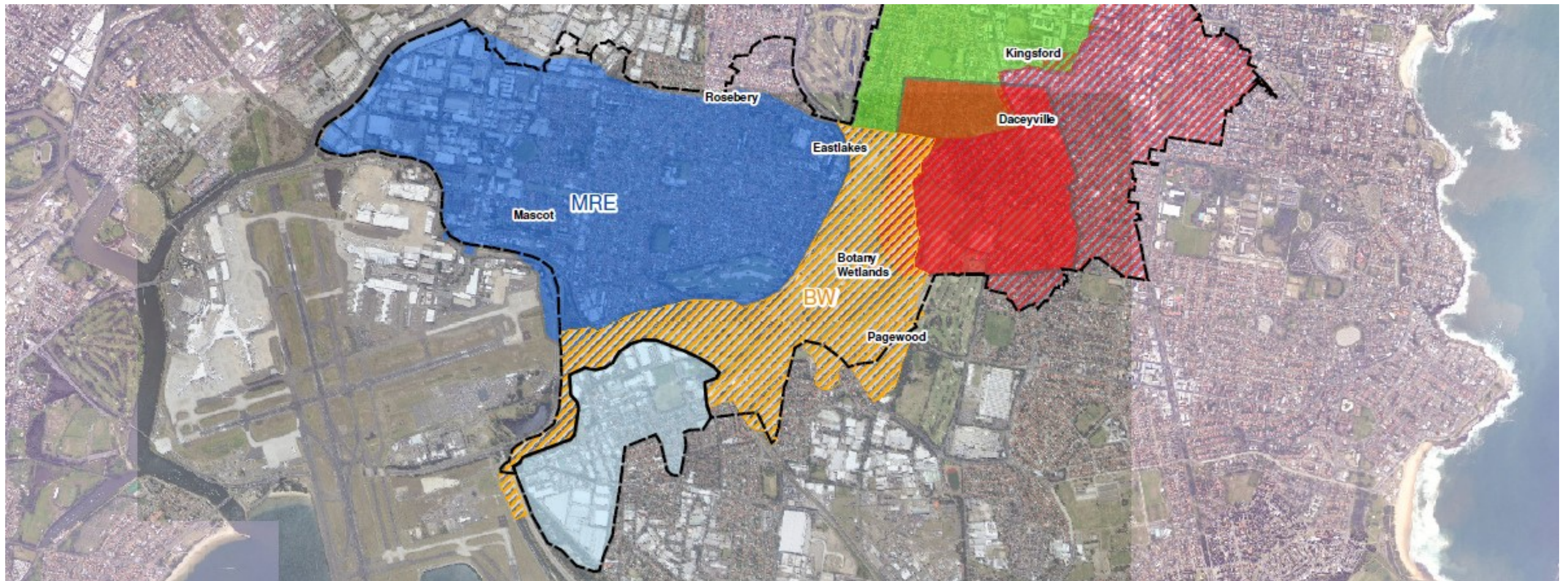


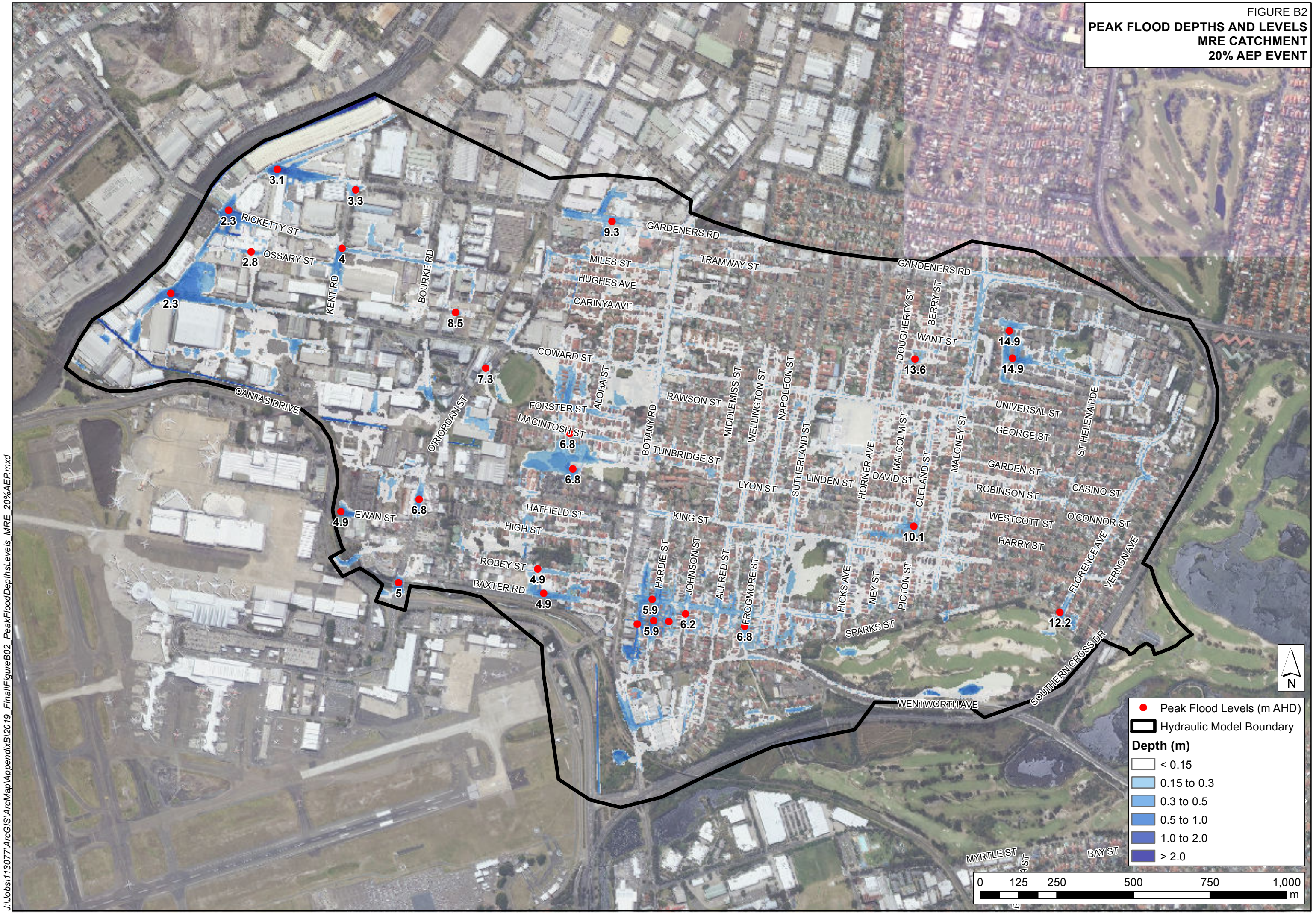


FIGURE B1
PEAK FLOOD DEPTHS AND LEVELS
MRE CATCHMENT
50% AEP EVENT



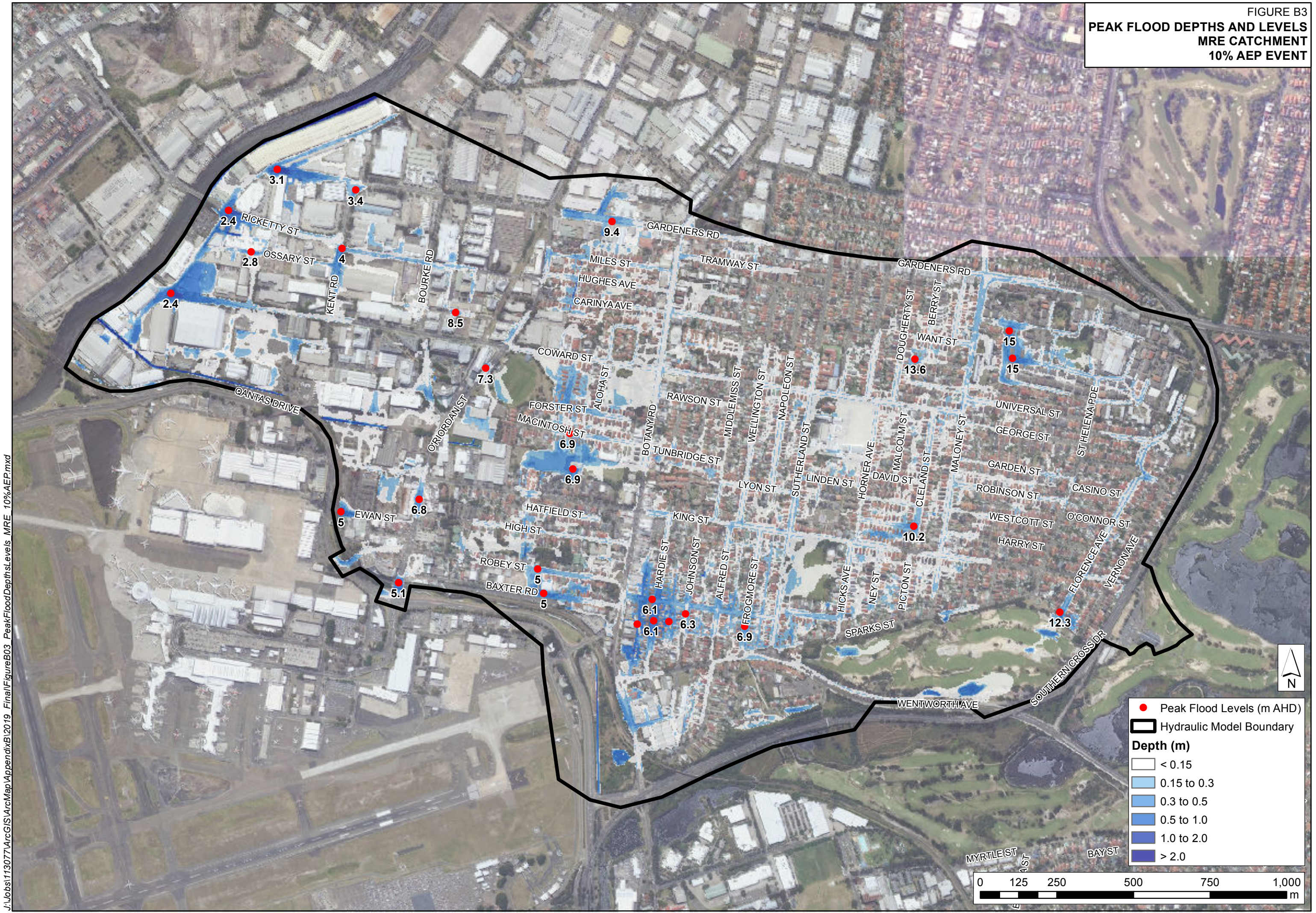
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FIGURE B2
PEAK FLOOD DEPTHS AND LEVELS
MRE CATCHMENT
20% AEP EVENT



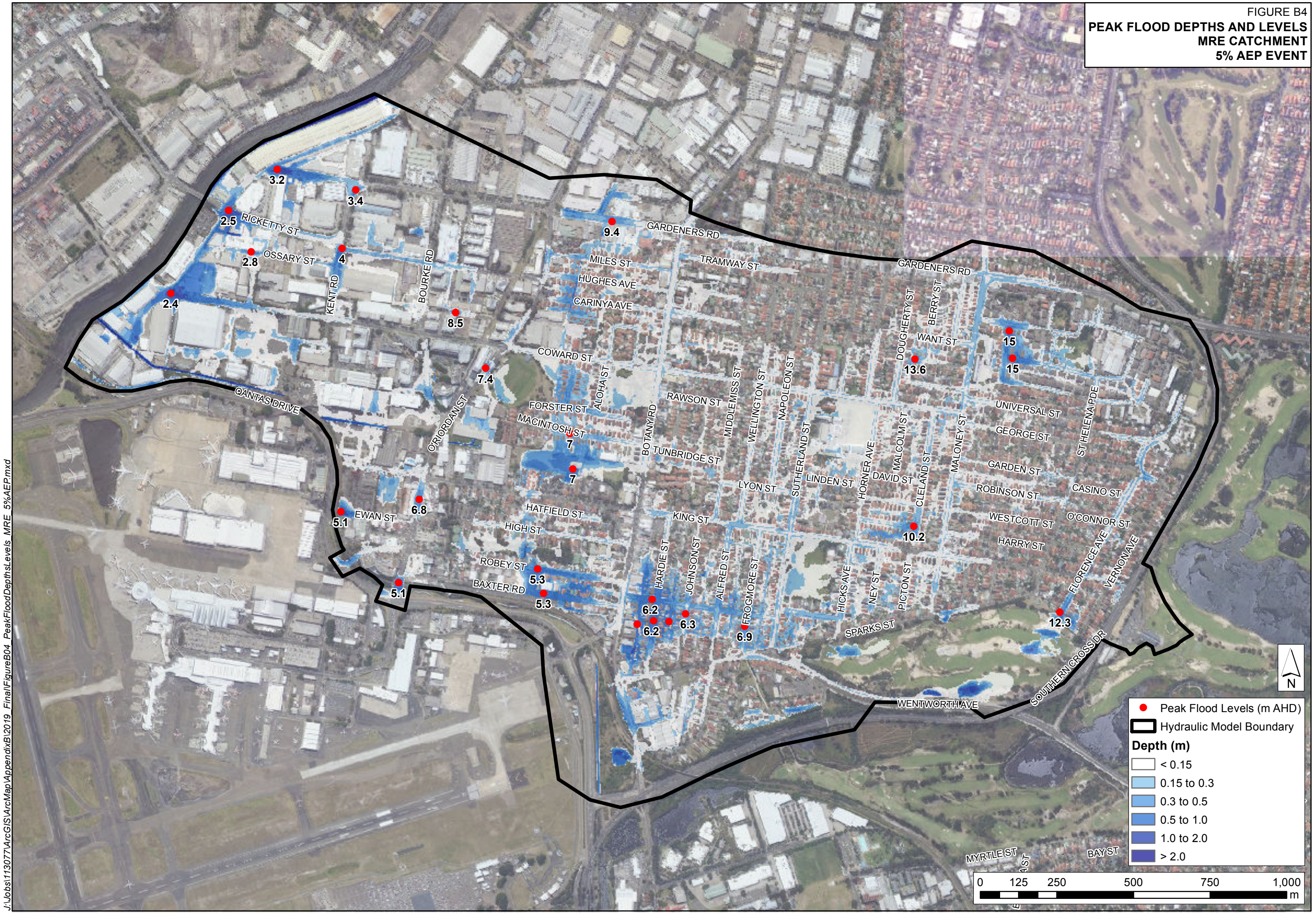
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FIGURE B3
PEAK FLOOD DEPTHS AND LEVELS
MRE CATCHMENT
10% AEP EVENT



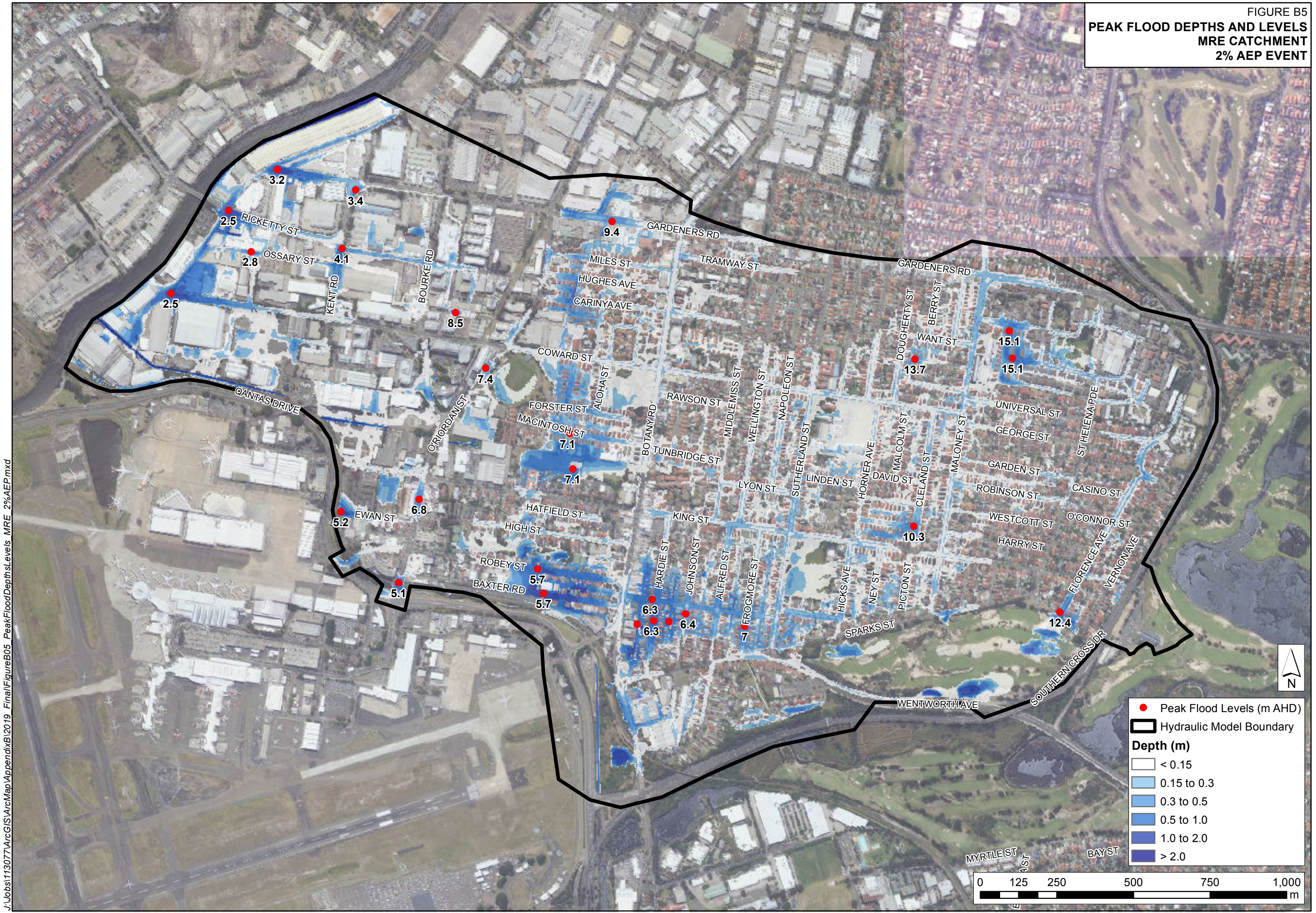
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FIGURE B4
PEAK FLOOD DEPTHS AND LEVELS
MRE CATCHMENT
5% AEP EVENT



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FIGURE B5
PEAK FLOOD DEPTHS AND LEVELS
MRE CATCHMENT
2% AEP EVENT



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FIGURE B7
PEAK FLOOD DEPTHS AND LEVELS
MRE CATCHMENT
PMF EVENT

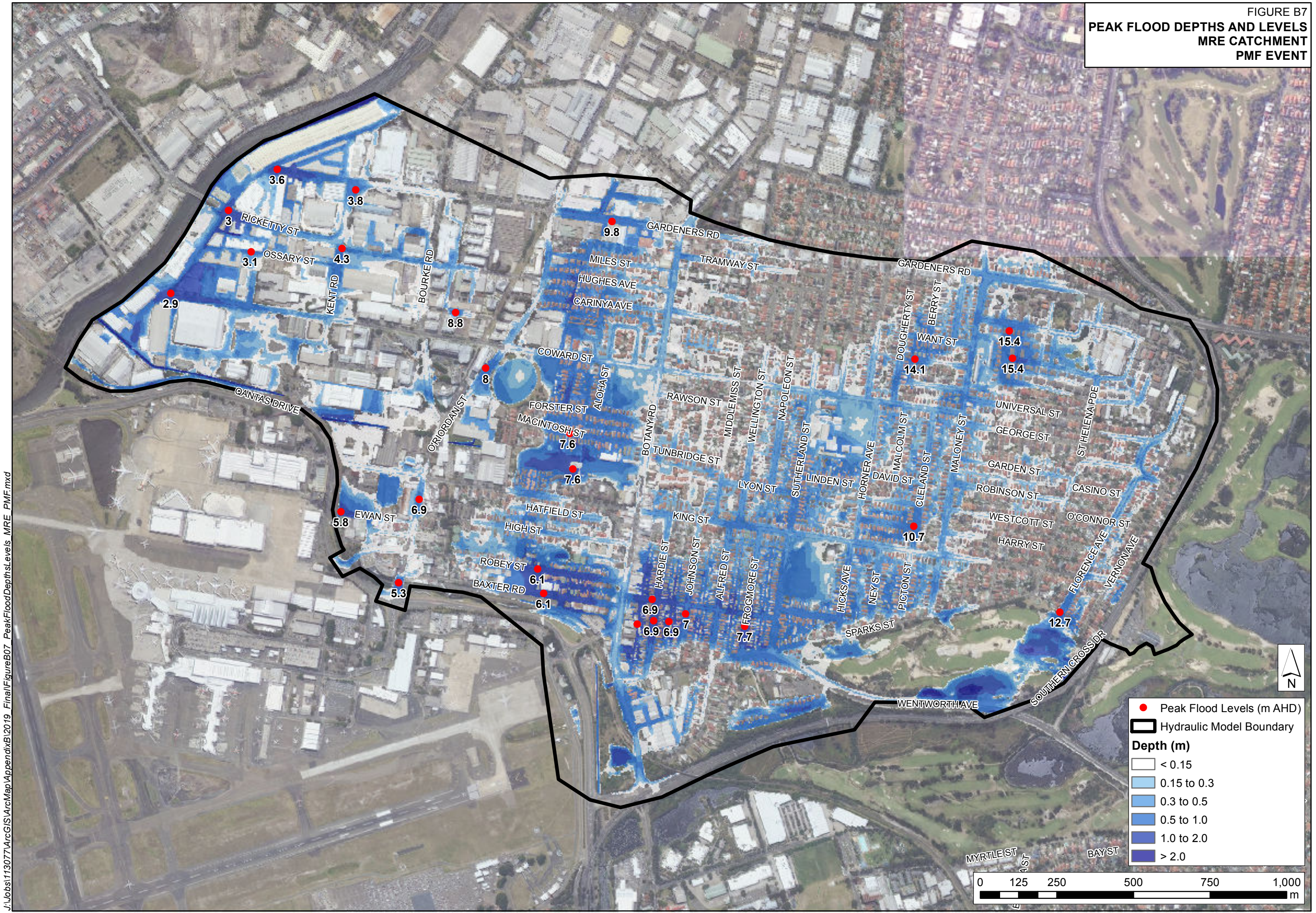
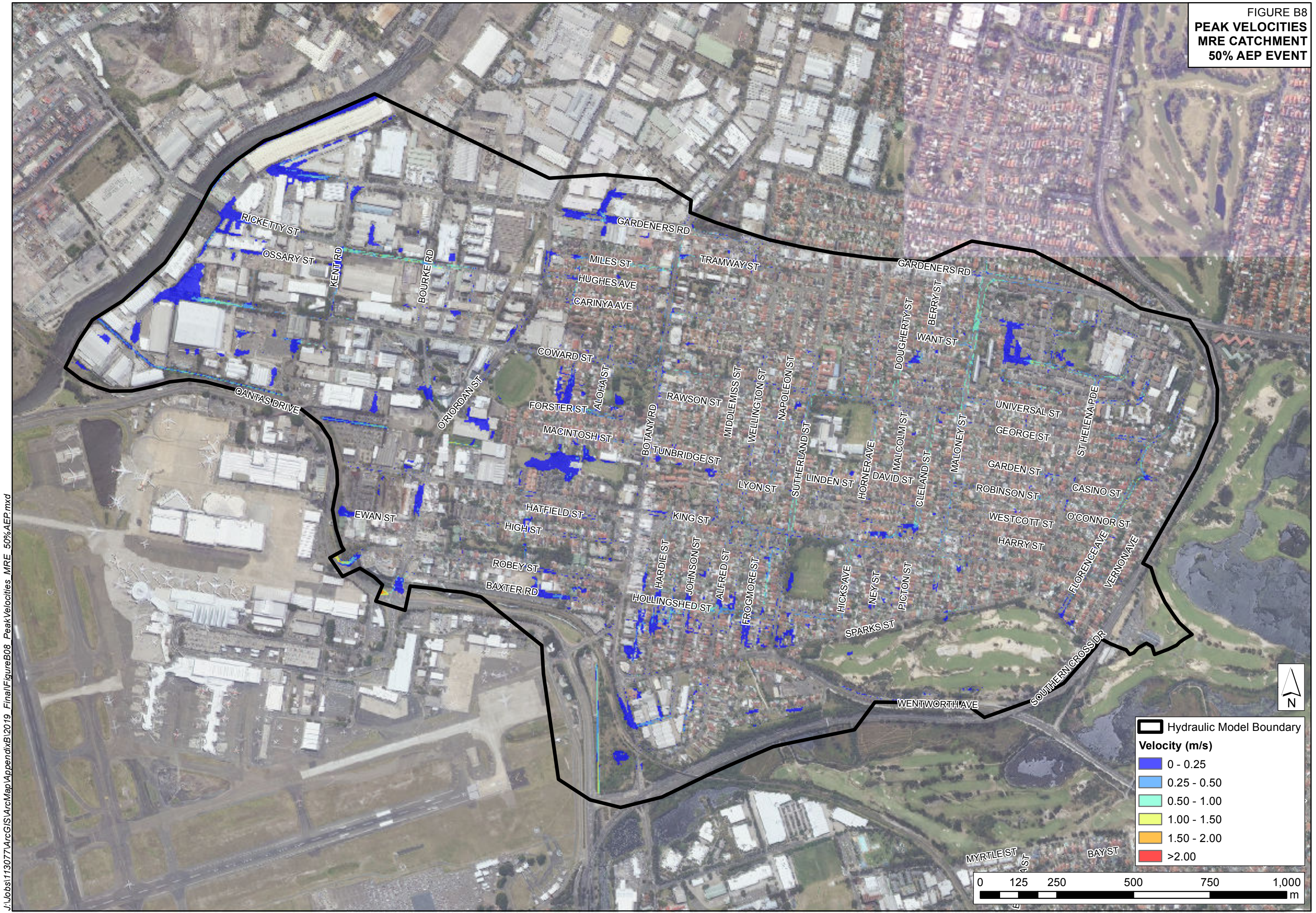


FIGURE B8
 PEAK VELOCITIES
 MRE CATCHMENT
 50% AEP EVENT



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FIGURE B9
 PEAK VELOCITIES
 MRE CATCHMENT
 20% AEP EVENT

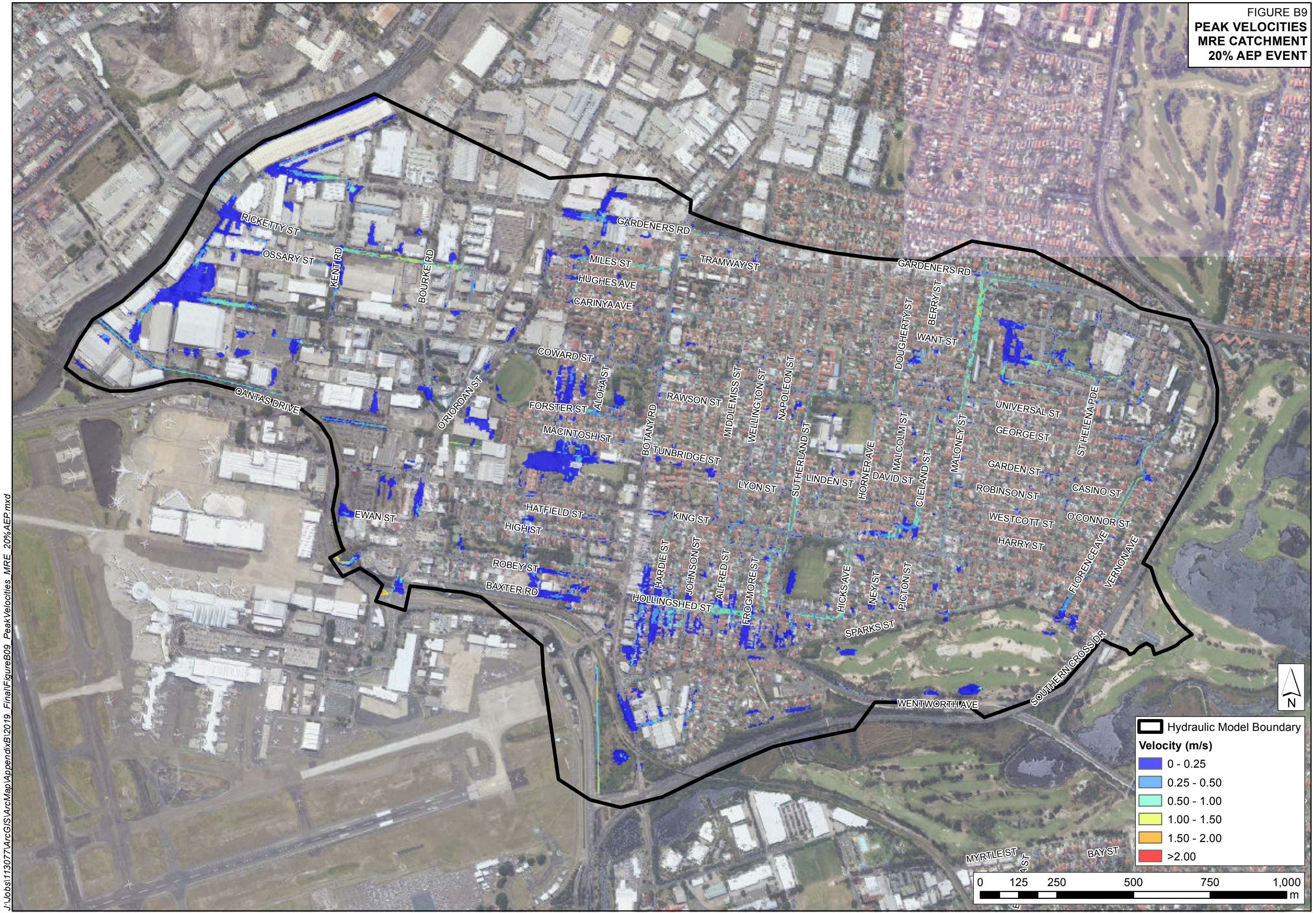
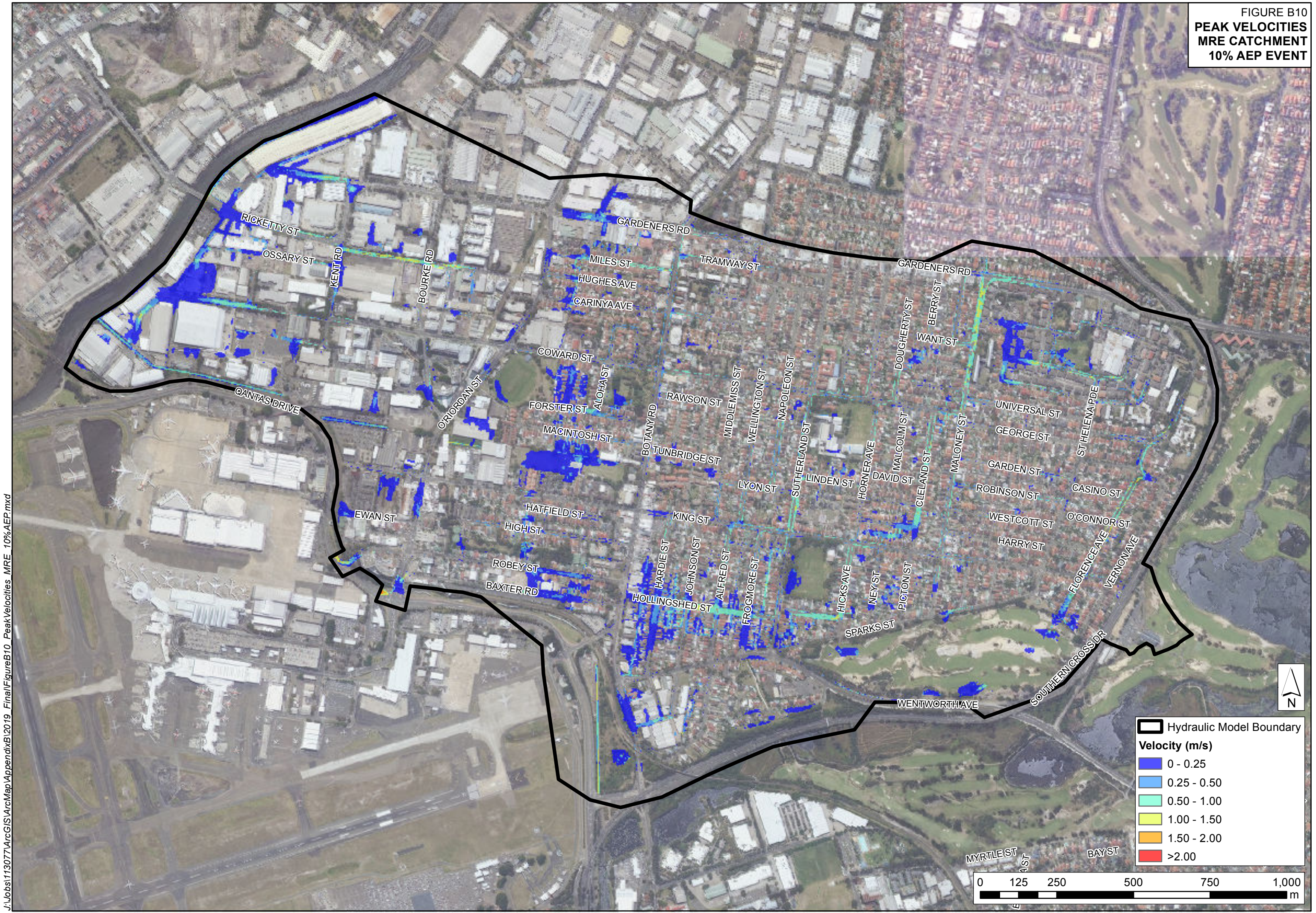


FIGURE B10
 PEAK VELOCITIES
 MRE CATCHMENT
 10% AEP EVENT



Hydraulic Model Boundary
Velocity (m/s)
 0 - 0.25
 0.25 - 0.50
 0.50 - 1.00
 1.00 - 1.50
 1.50 - 2.00
 >2.00

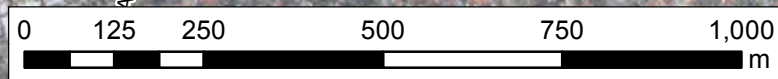
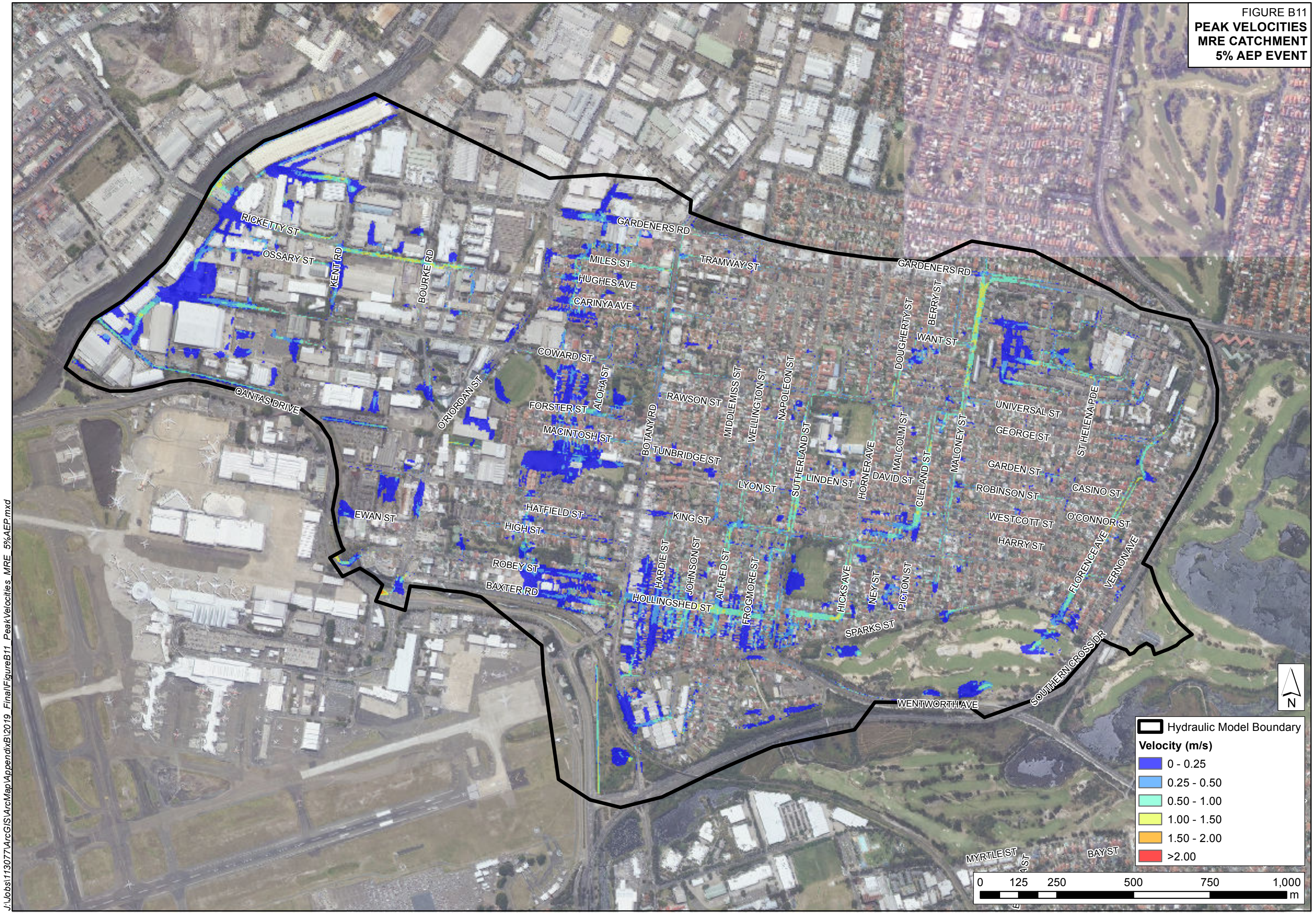


FIGURE B11
 PEAK VELOCITIES
 MRE CATCHMENT
 5% AEP EVENT



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Hydraulic Model Boundary

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

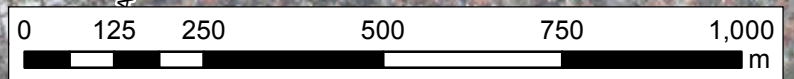
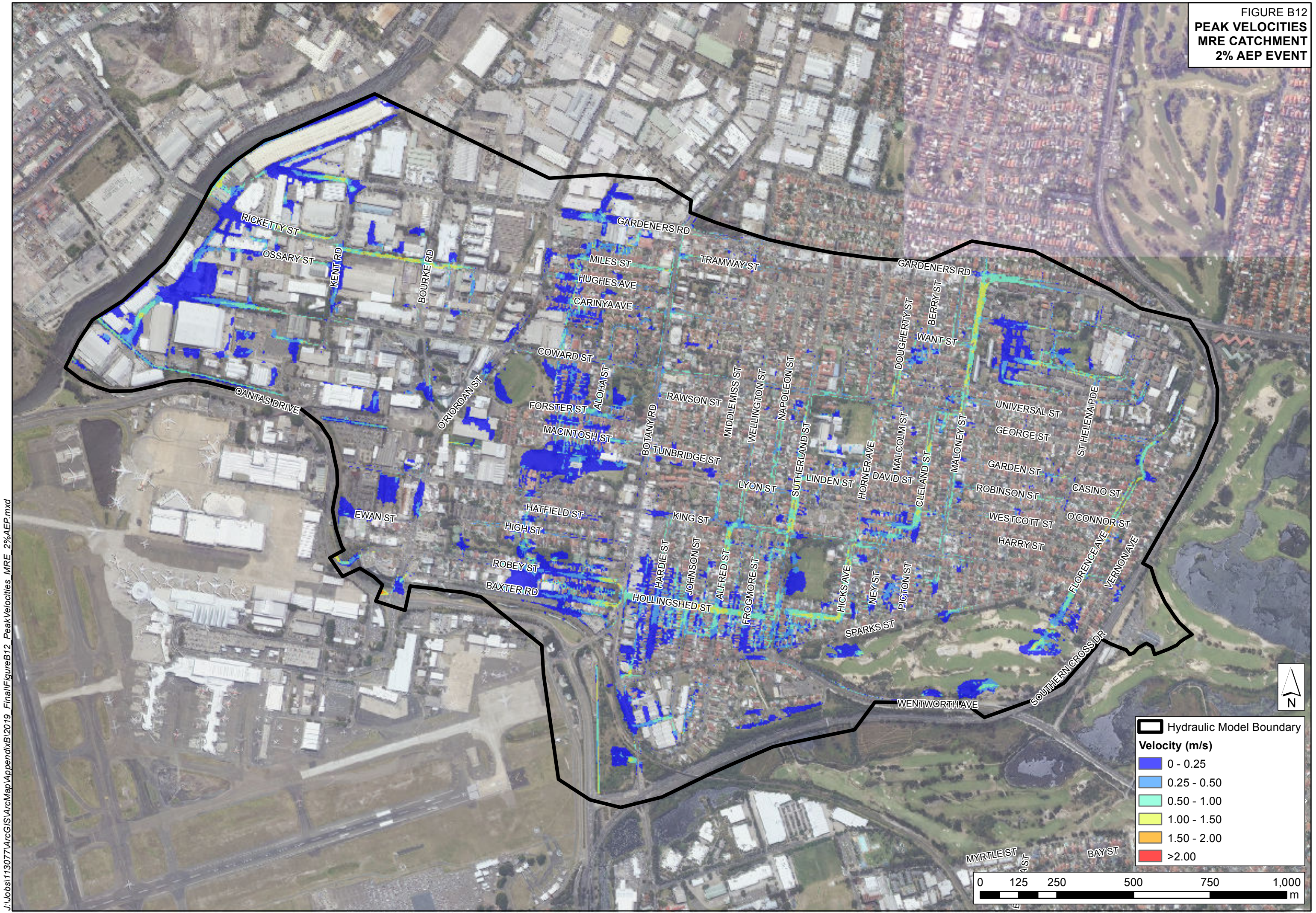


FIGURE B12
 PEAK VELOCITIES
 MRE CATCHMENT
 2% AEP EVENT



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Hydraulic Model Boundary

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

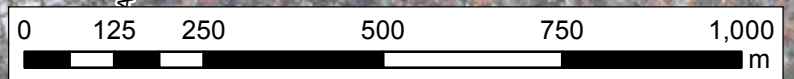
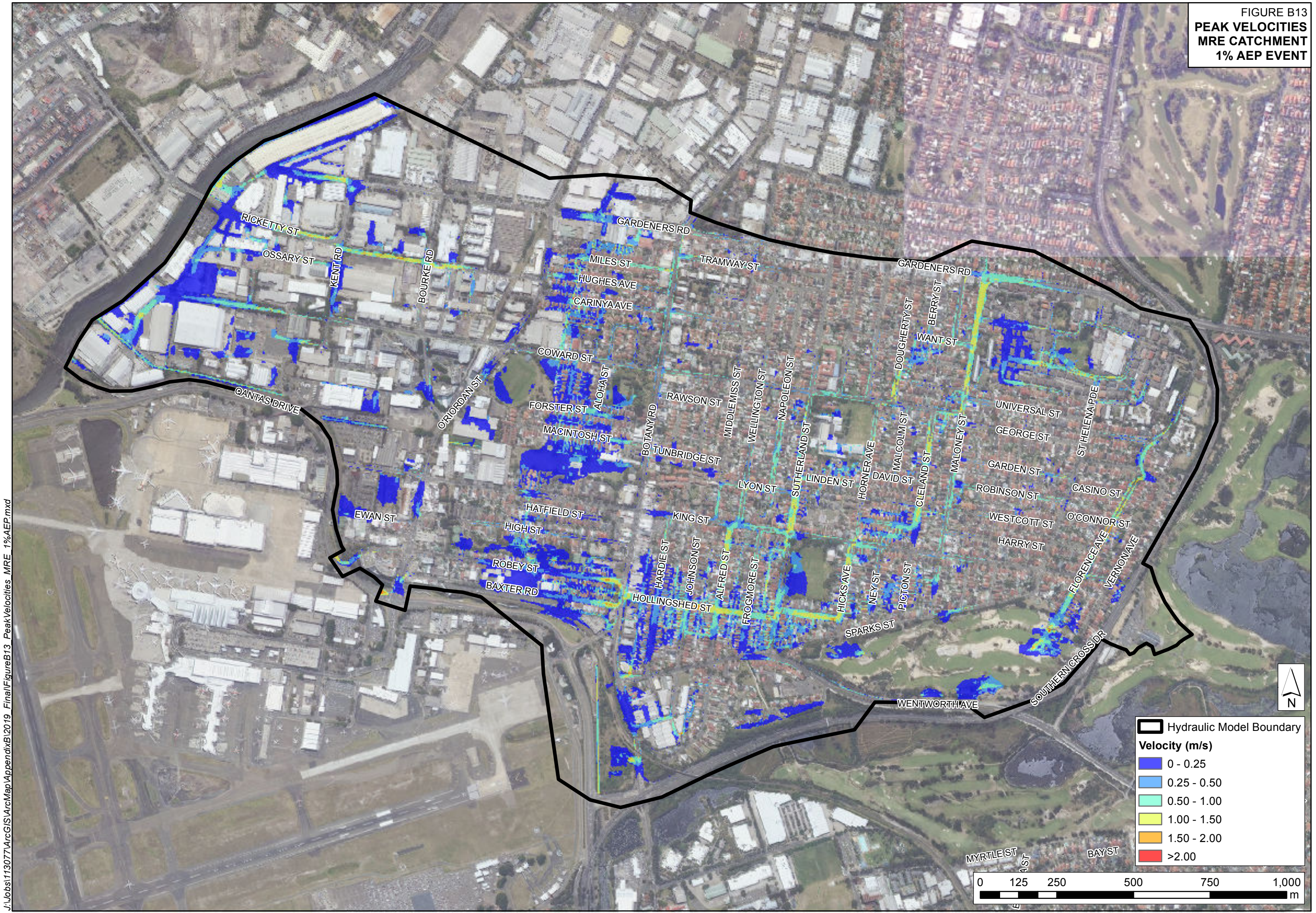


FIGURE B13
PEAK VELOCITIES
MRE CATCHMENT
1% AEP EVENT



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Hydraulic Model Boundary
Velocity (m/s)
 0 - 0.25
 0.25 - 0.50
 0.50 - 1.00
 1.00 - 1.50
 1.50 - 2.00
 >2.00

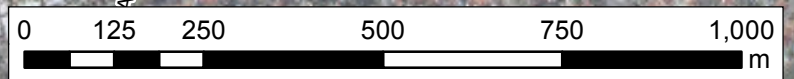
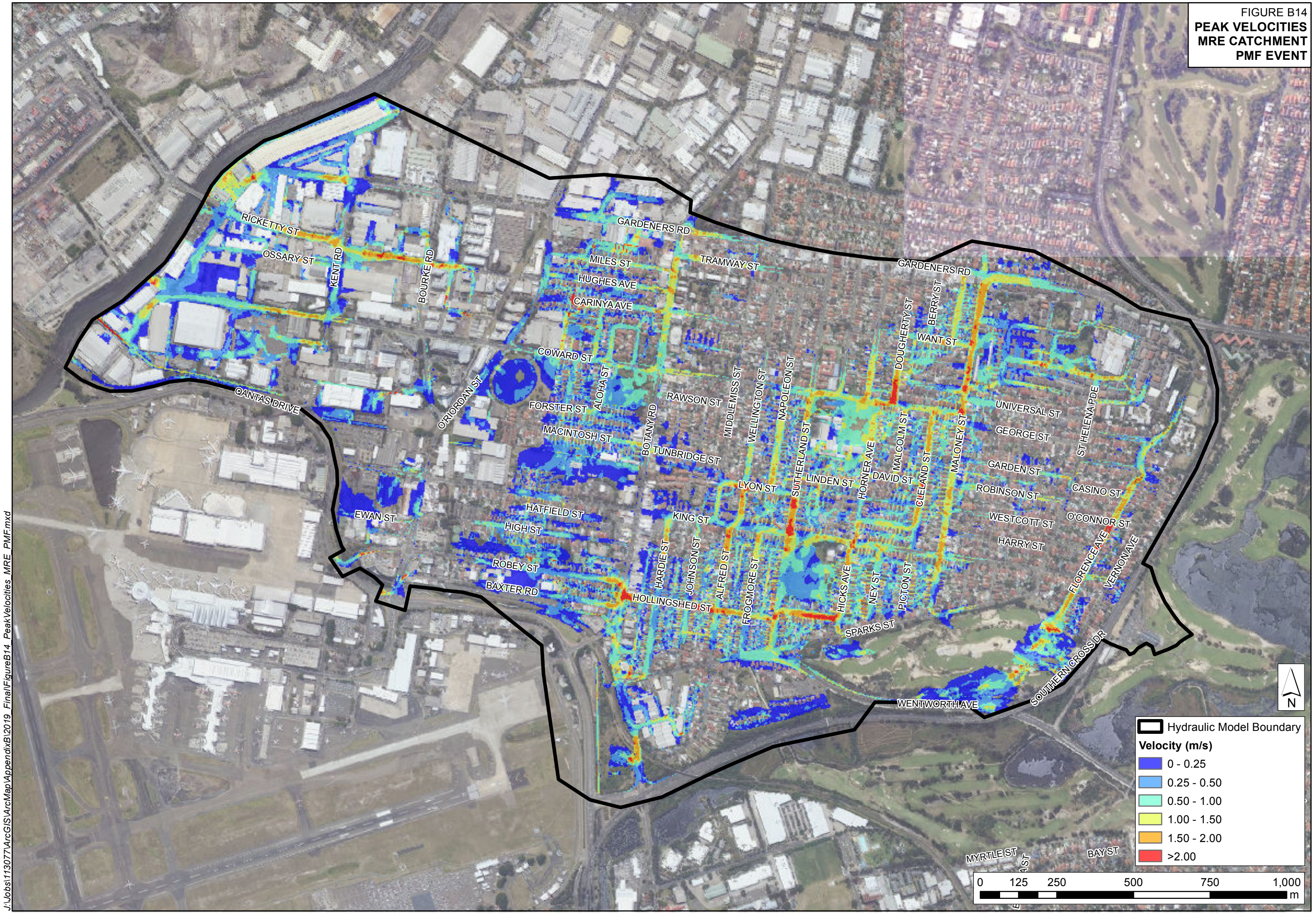


FIGURE B14
 PEAK VELOCITIES
 MRE CATCHMENT
 PMF EVENT



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Hydraulic Model Boundary
Velocity (m/s)
 0 - 0.25
 0.25 - 0.50
 0.50 - 1.00
 1.00 - 1.50
 1.50 - 2.00
 >2.00

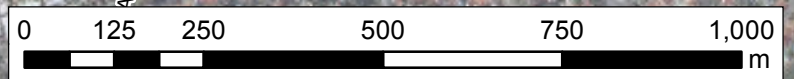
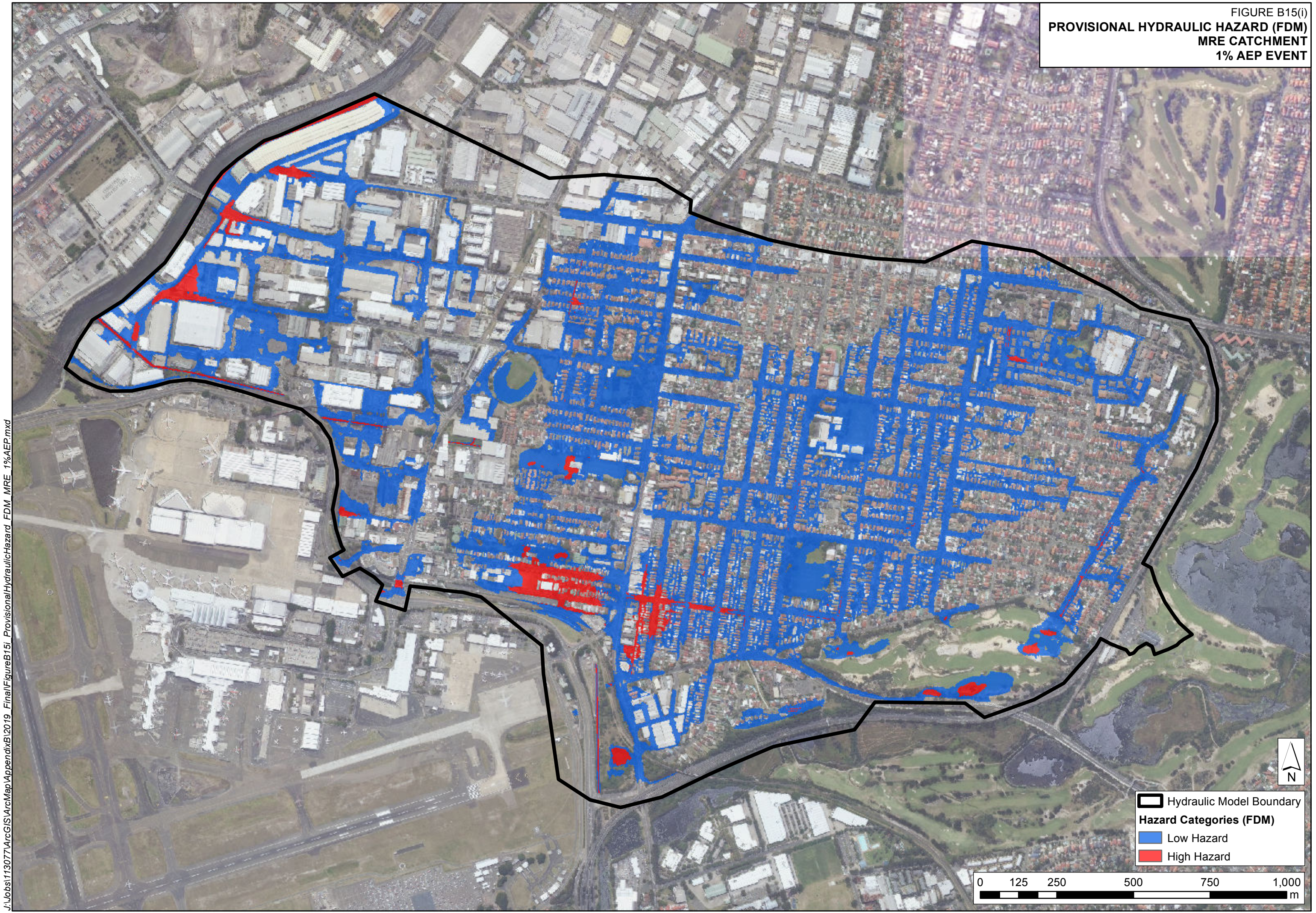


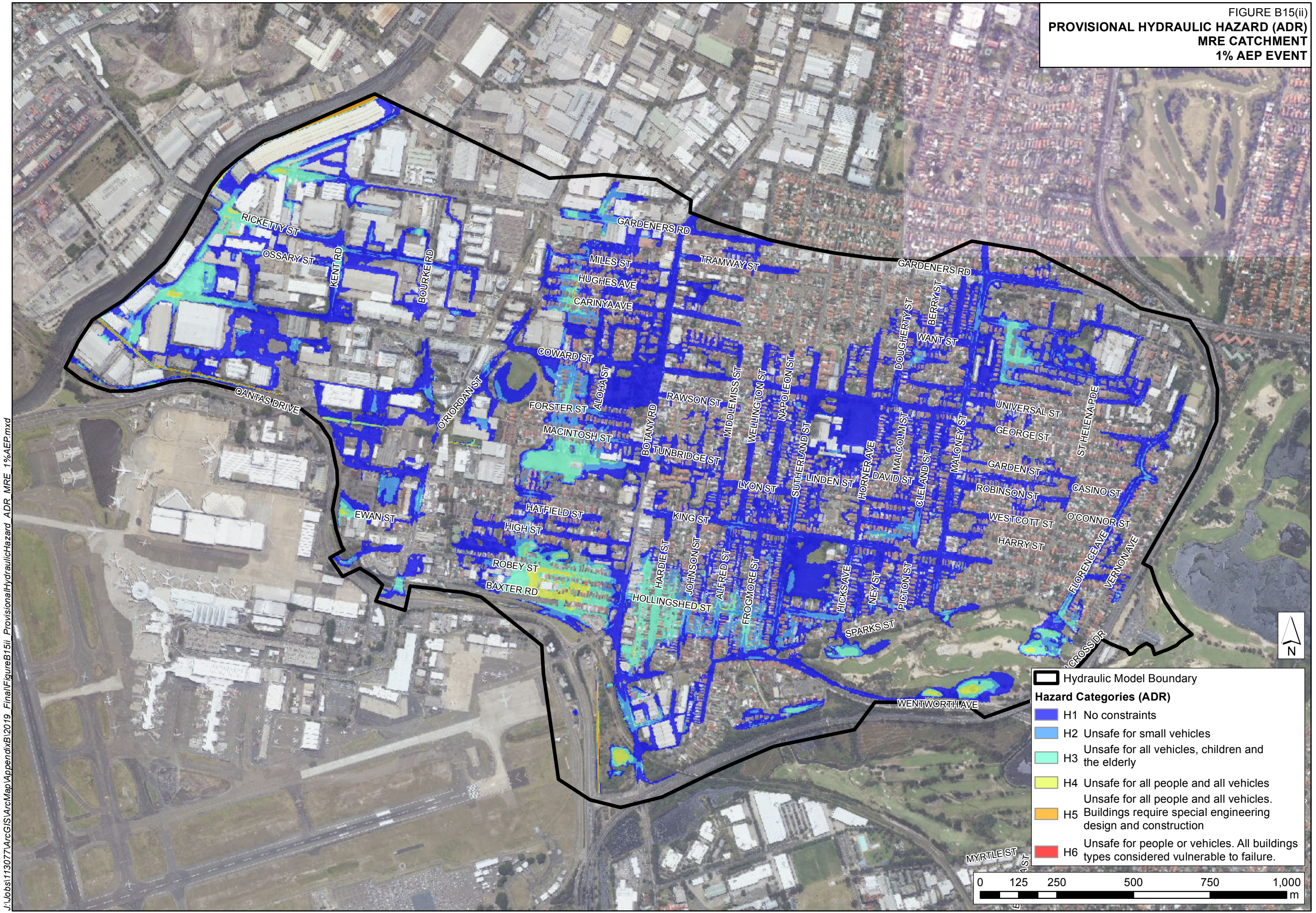
FIGURE B15(i)
PROVISIONAL HYDRAULIC HAZARD (FDM)
MRE CATCHMENT
1% AEP EVENT



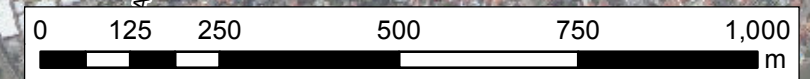
Hydraulic Model Boundary
Hazard Categories (FDM)
Low Hazard
High Hazard

0 125 250 500 750 1,000 m

FIGURE B15(ii)
PROVISIONAL HYDRAULIC HAZARD (ADR)
MRE CATCHMENT
1% AEP EVENT

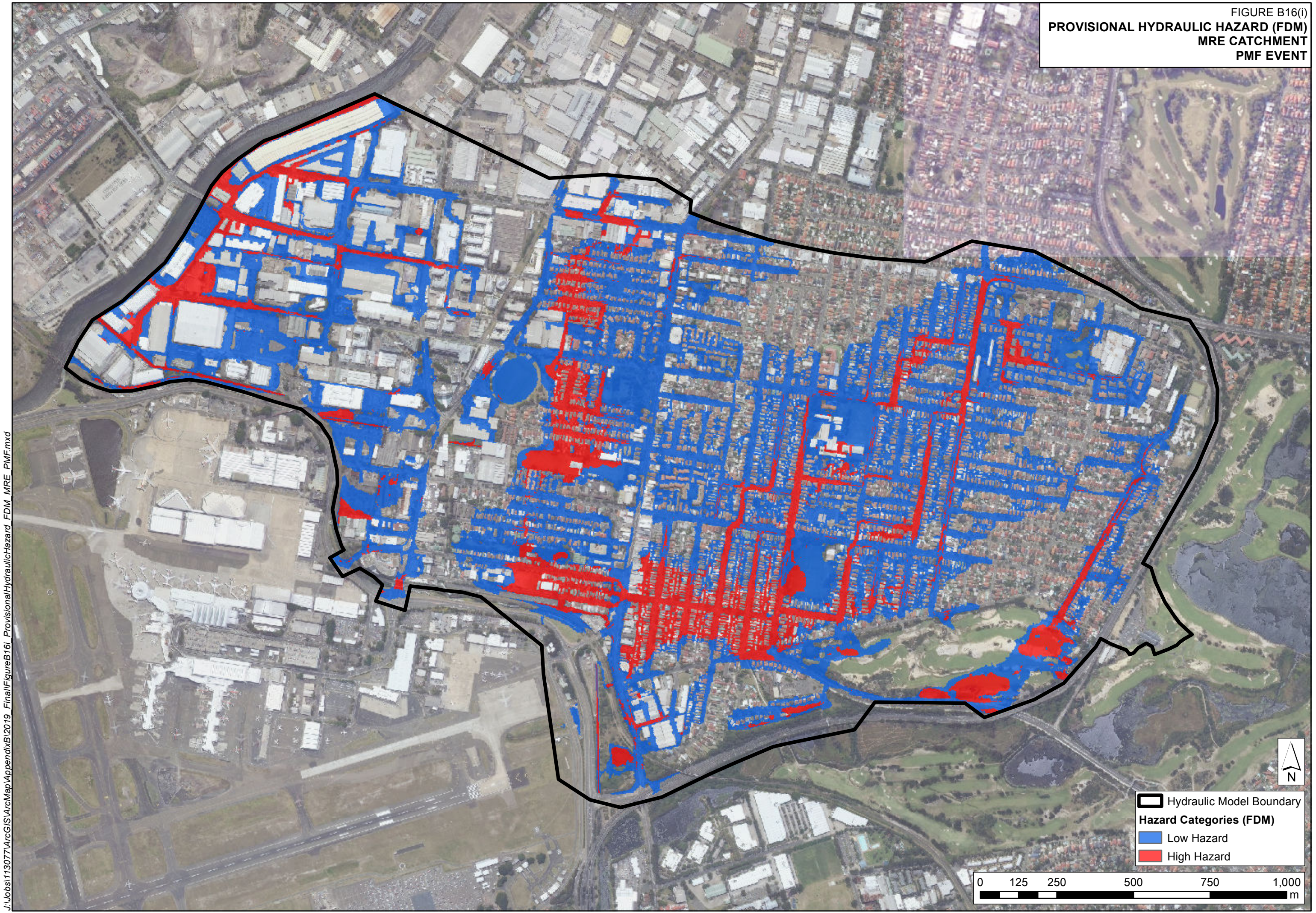


Hydraulic Model Boundary
Hazard Categories (ADR)
 H1 No constraints
 H2 Unsafe for small vehicles
 H3 Unsafe for all vehicles, children and the elderly
 H4 Unsafe for all people and all vehicles
 H5 Buildings require special engineering design and construction
 H6 Unsafe for people or vehicles. All buildings types considered vulnerable to failure.



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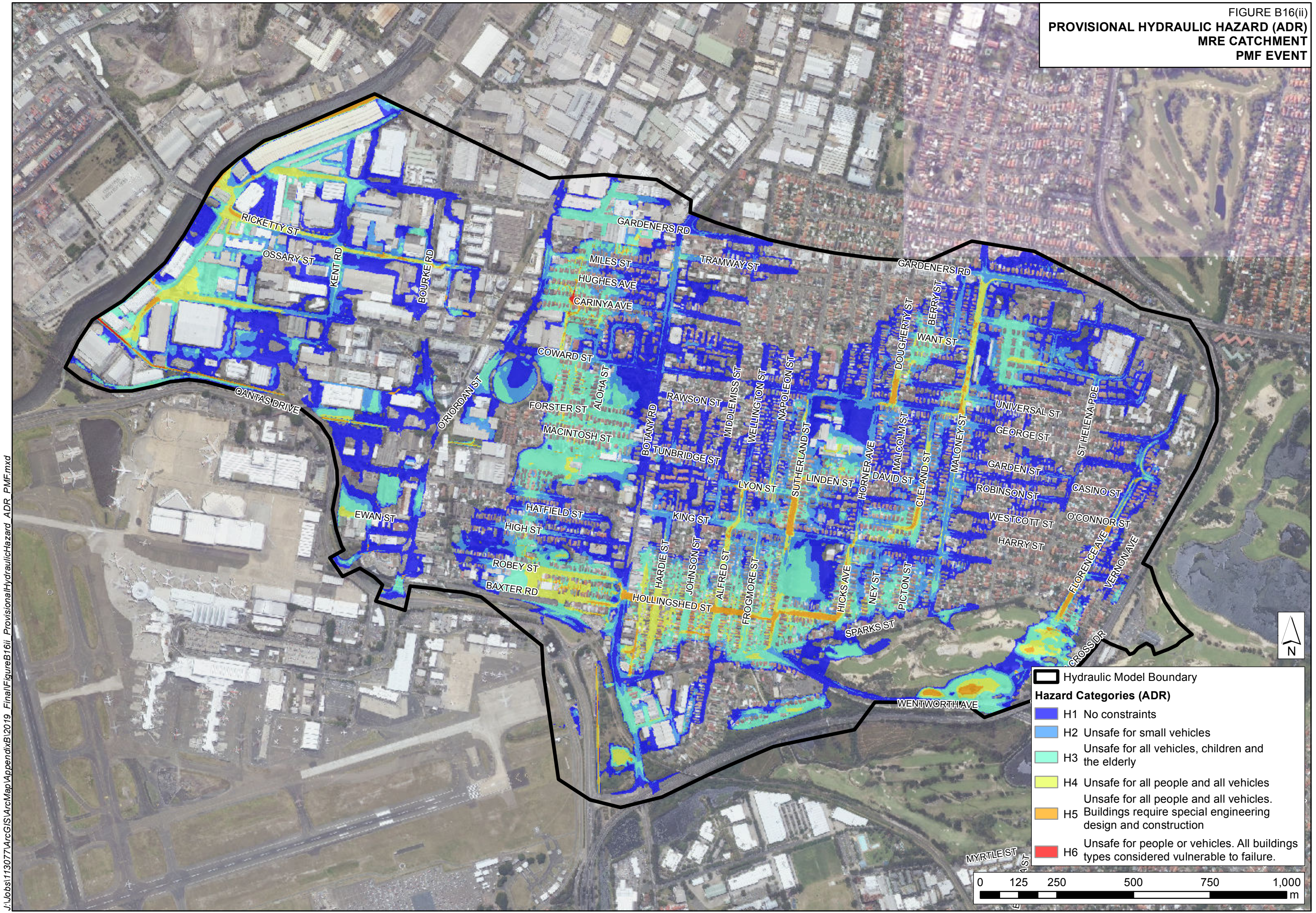
FIGURE B16(i)
PROVISIONAL HYDRAULIC HAZARD (FDM)
MRE CATCHMENT
PMF EVENT



Hydraulic Model Boundary
Hazard Categories (FDM)
Low Hazard
High Hazard

0 125 250 500 750 1,000 m

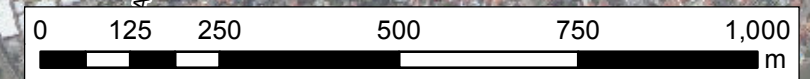
FIGURE B16(ii)
PROVISIONAL HYDRAULIC HAZARD (ADR)
MRE CATCHMENT
PMF EVENT



Hydraulic Model Boundary

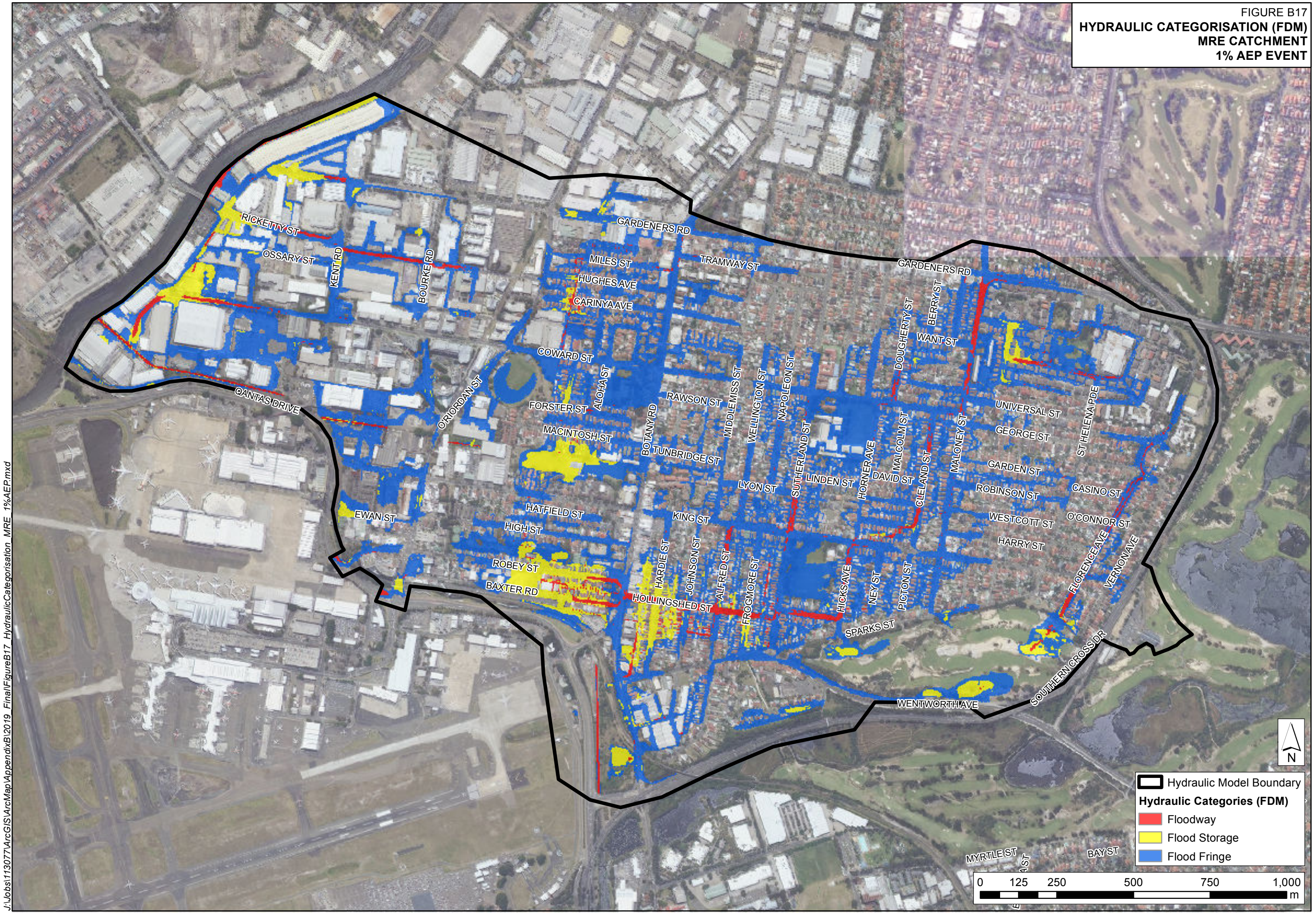
Hazard Categories (ADR)

- H1 No constraints
- H2 Unsafe for small vehicles
Unsafe for all vehicles, children and the elderly
- H3
- H4 Unsafe for all people and all vehicles
Unsafe for all people and all vehicles.
- H5 Buildings require special engineering design and construction
- H6 Unsafe for people or vehicles. All buildings types considered vulnerable to failure.



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FIGURE B17
 HYDRAULIC CATEGORISATION (FDM)
 MRE CATCHMENT
 1% AEP EVENT

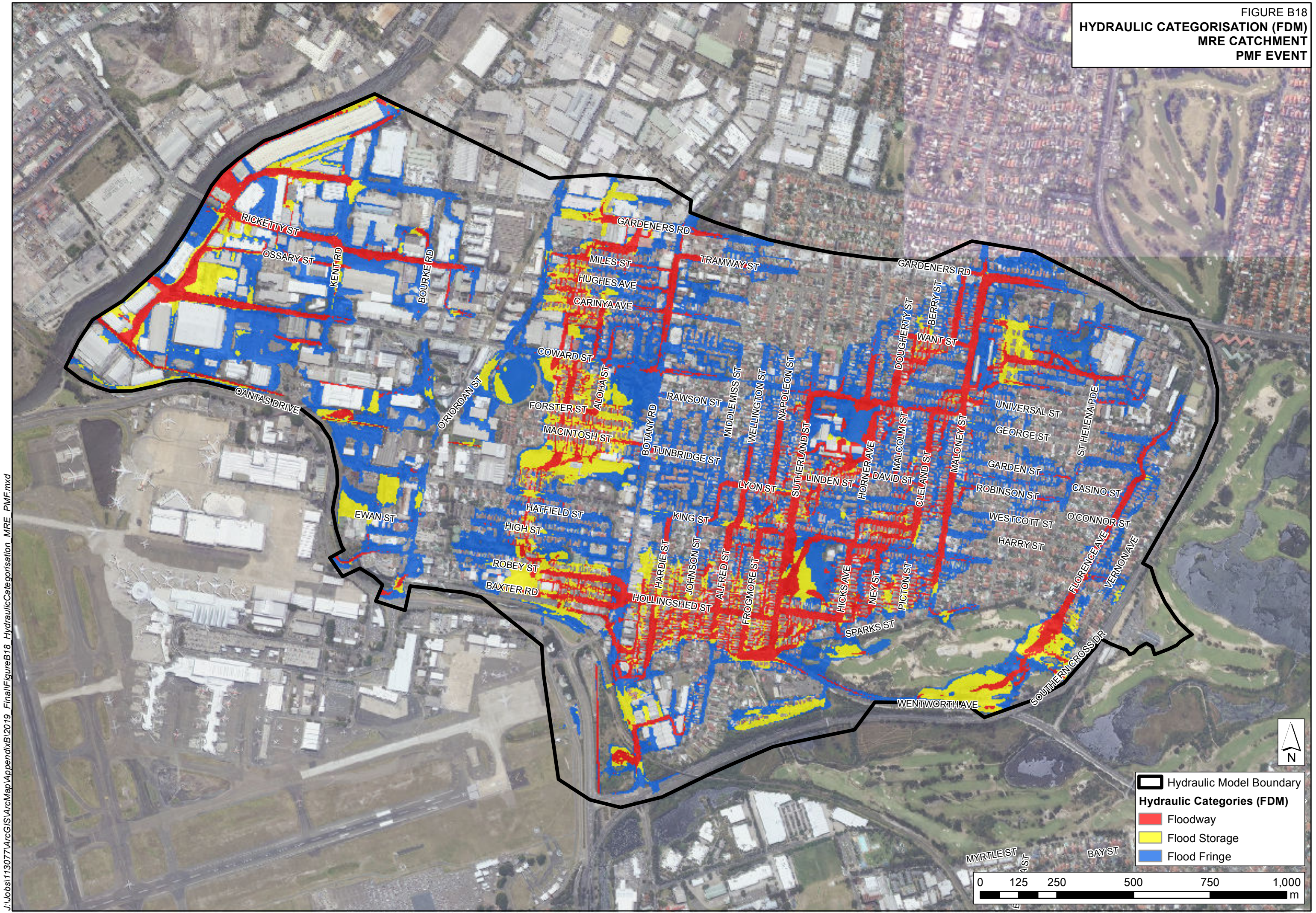


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- Hydraulic Model Boundary
- Hydraulic Categories (FDM)**
- Floodway
- Flood Storage
- Flood Fringe



FIGURE B18
HYDRAULIC CATEGORISATION (FDM)
MRE CATCHMENT
PMF EVENT



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- Hydraulic Model Boundary
- Hydraulic Categories (FDM)**
- Floodway
- Flood Storage
- Flood Fringe

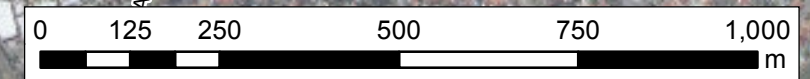


FIGURE B19
FLOODING HOTSPOTS

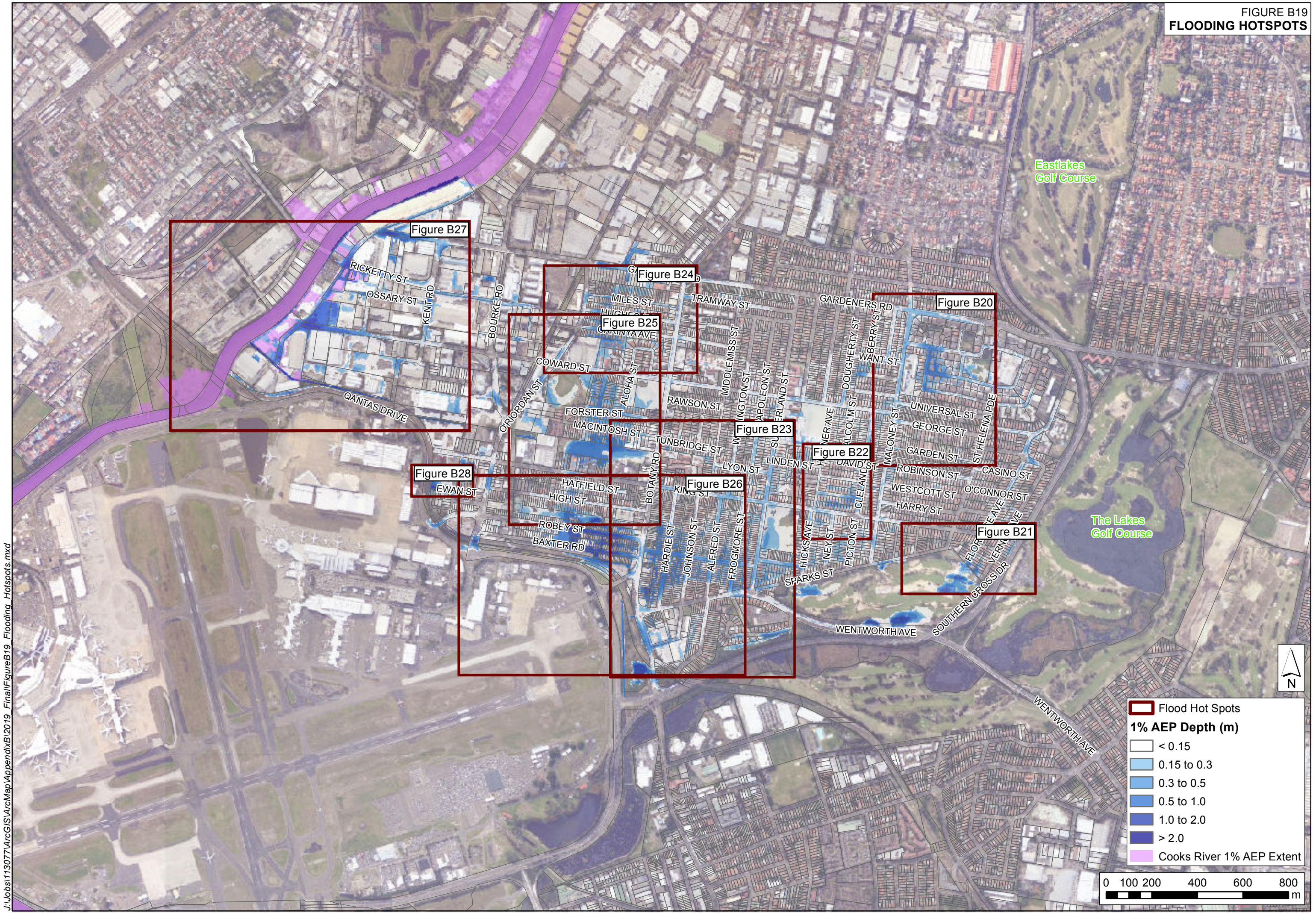
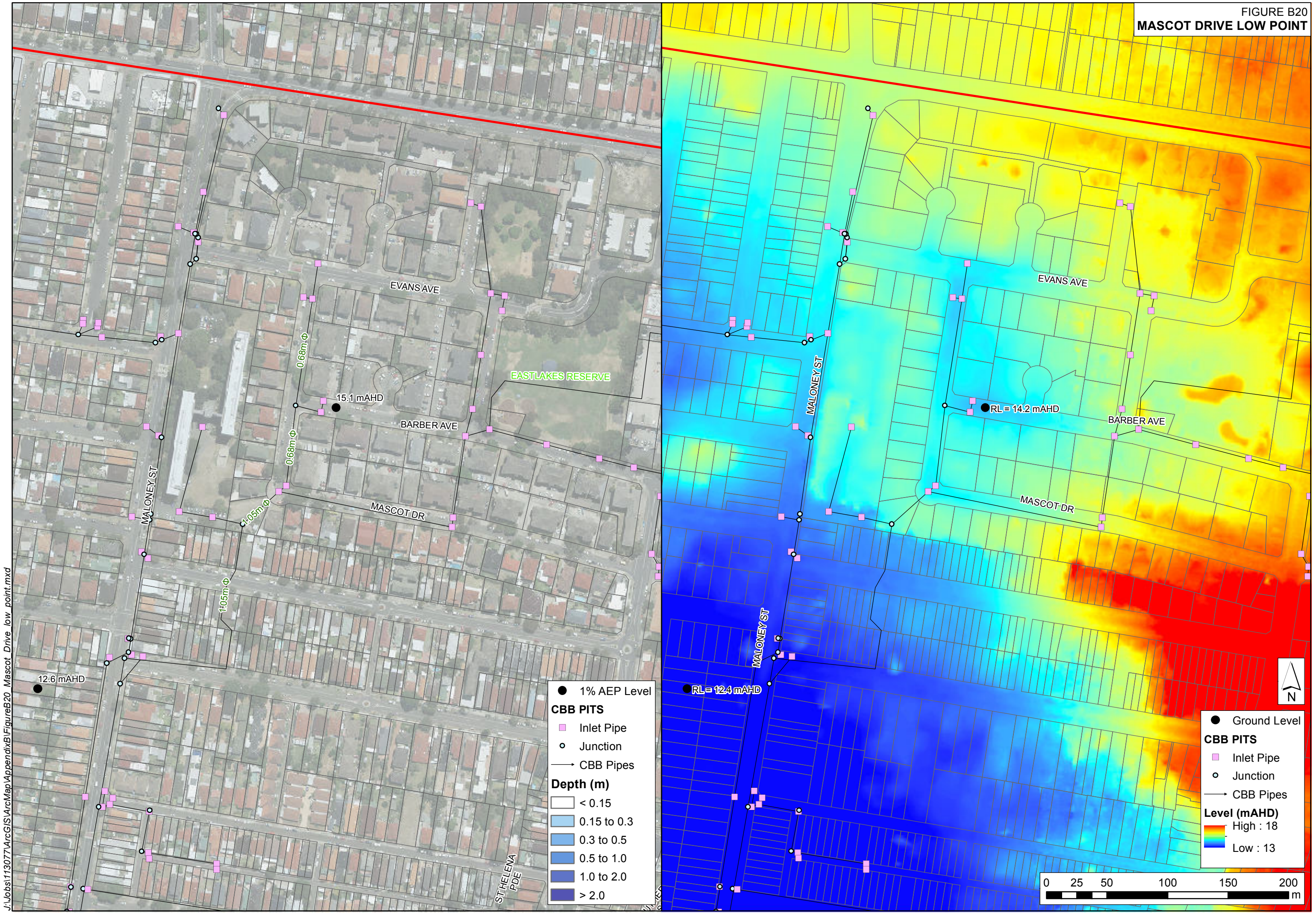


FIGURE B20
MASCOT DRIVE LOW POINT



- 1% AEP Level
- CBB PITS**
- Inlet Pipe
- Junction
- CBB Pipes
- Depth (m)**
- < 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- > 2.0

- Ground Level
- CBB PITS**
- Inlet Pipe
- Junction
- CBB Pipes
- Level (mAHD)**
- High : 18
- Low : 13

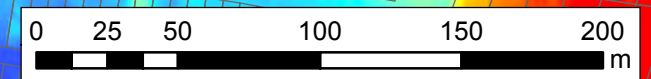
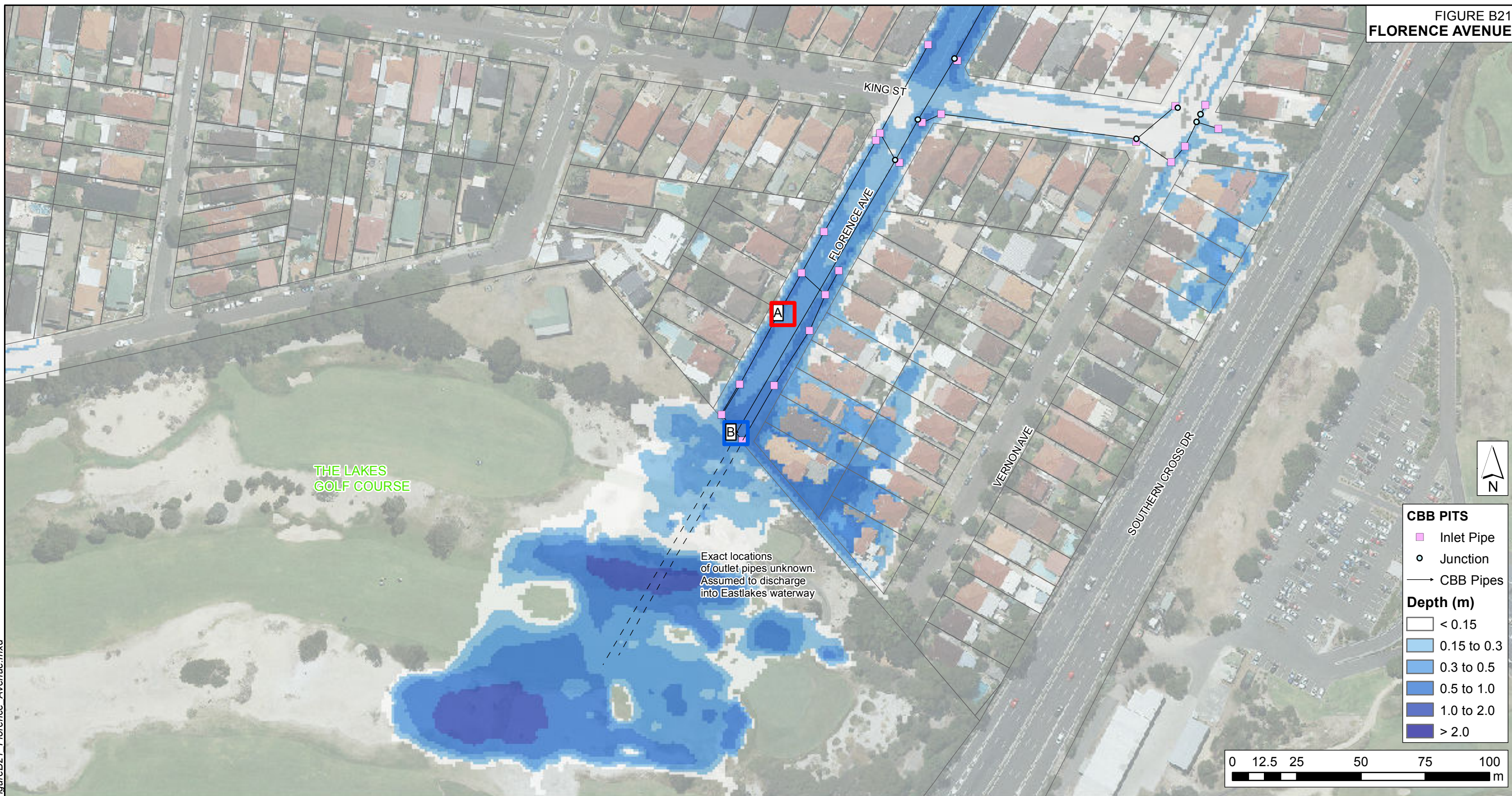


FIGURE B21
FLORENCE AVENUE



CBB PITS

- Inlet Pipe
- Junction
- CBB Pipes

Depth (m)

- < 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- > 2.0

Exact locations of outlet pipes unknown. Assumed to discharge into Eastlakes waterway

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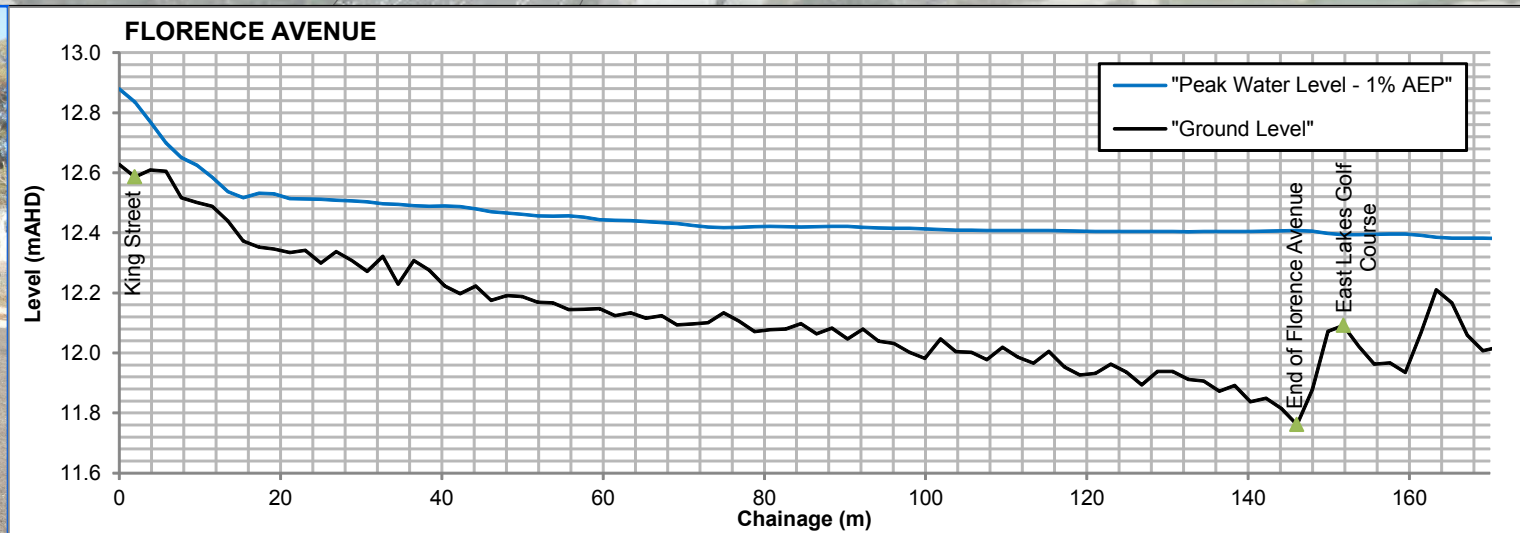
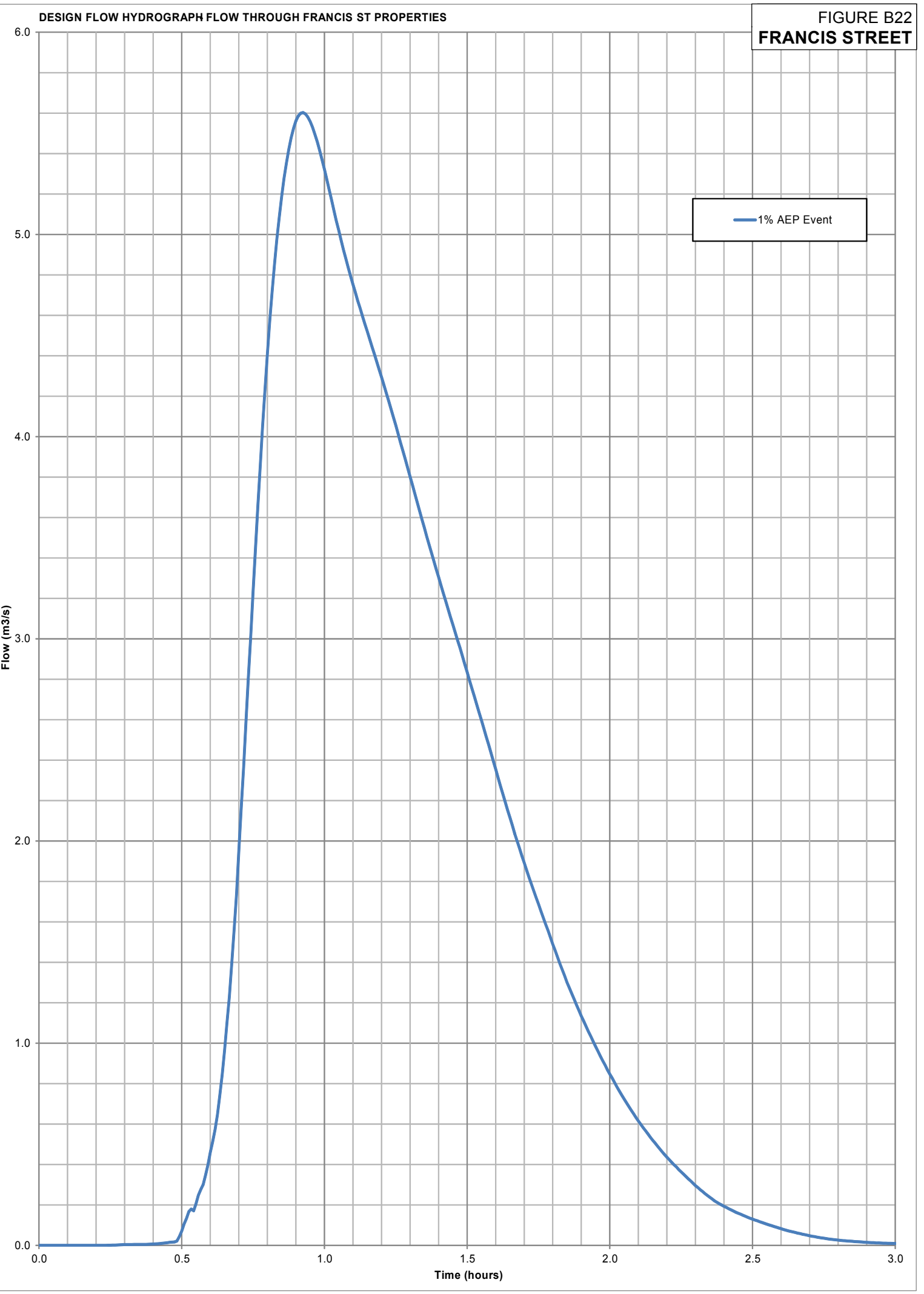
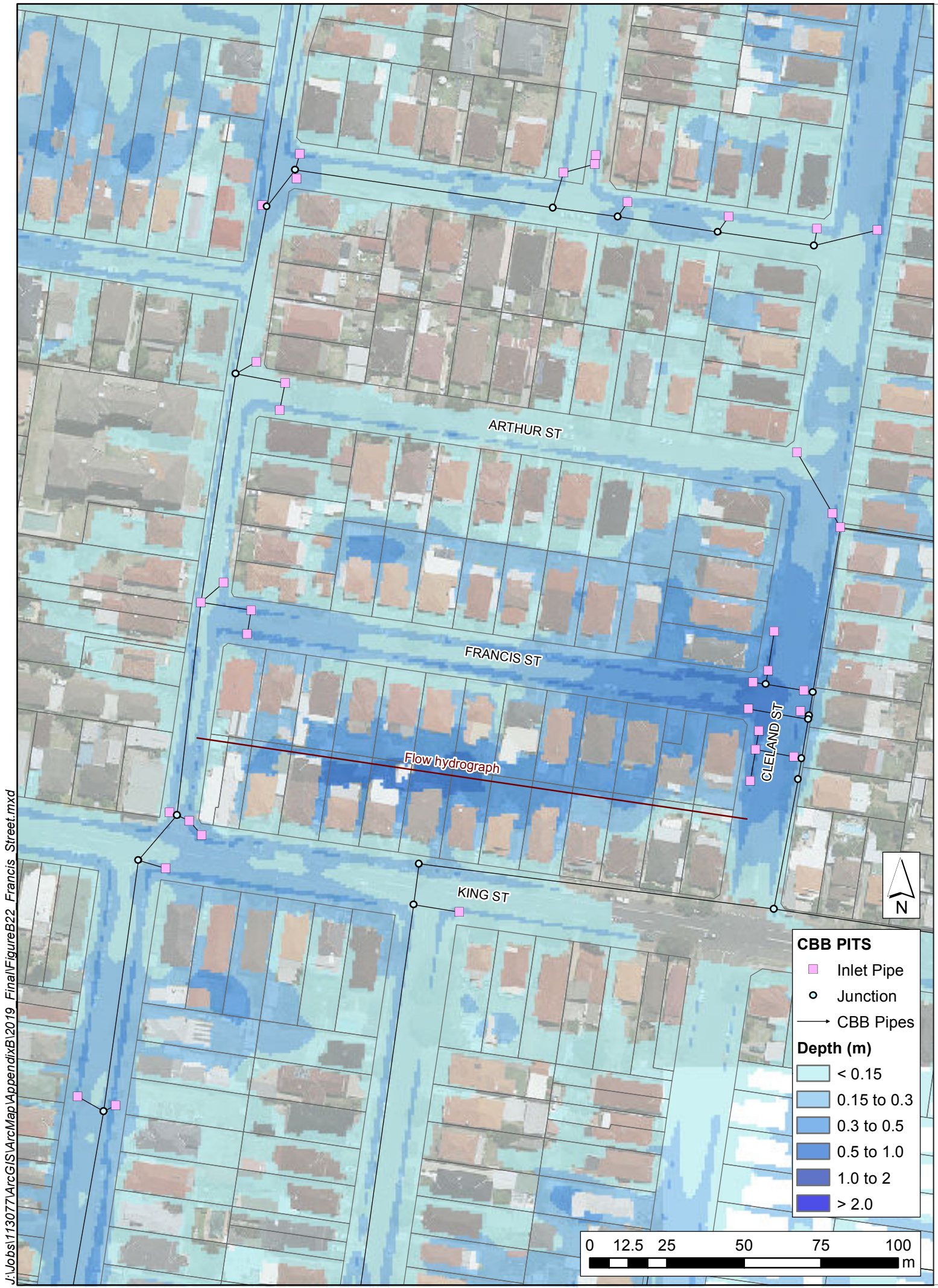


FIGURE B22
FRANCIS STREET



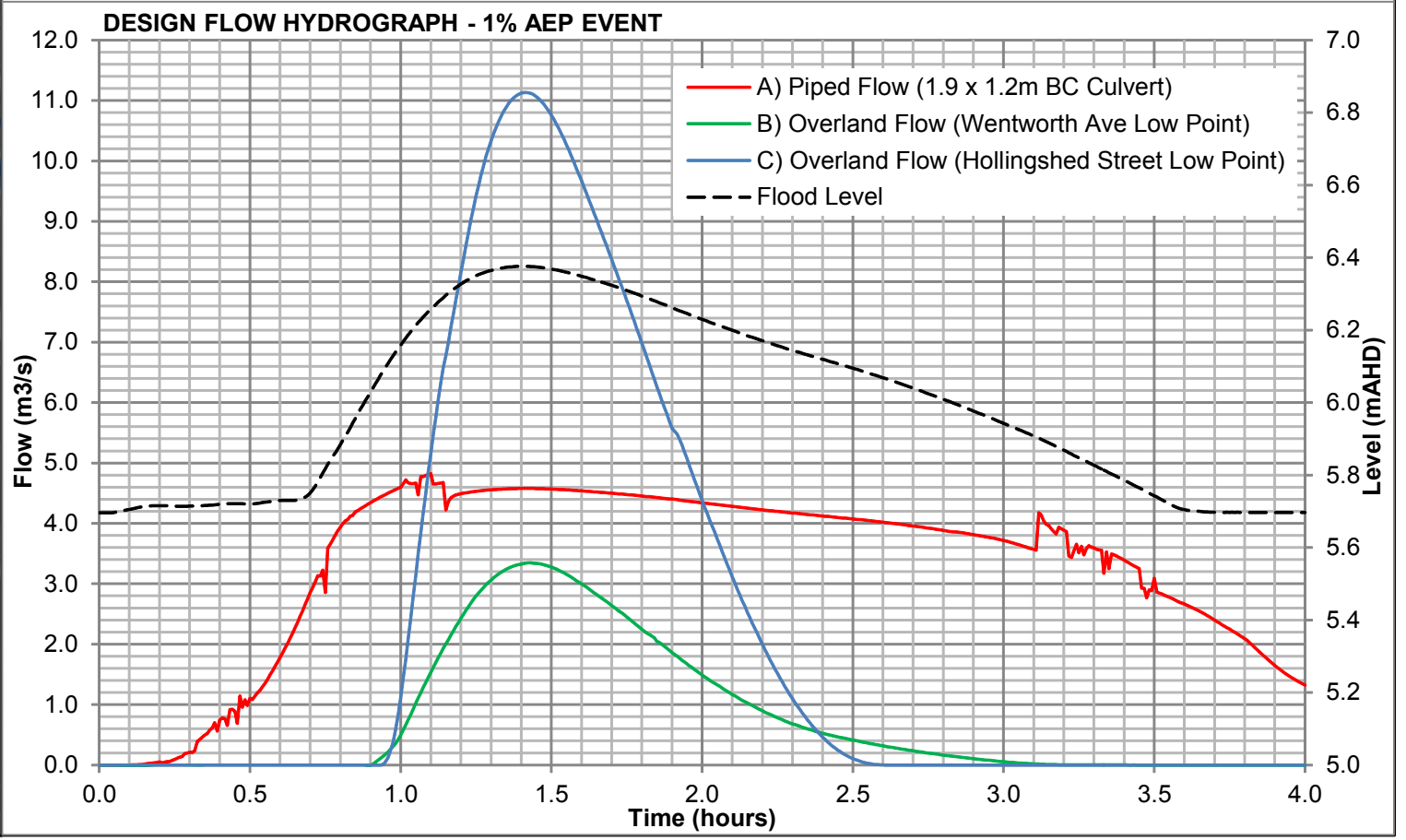
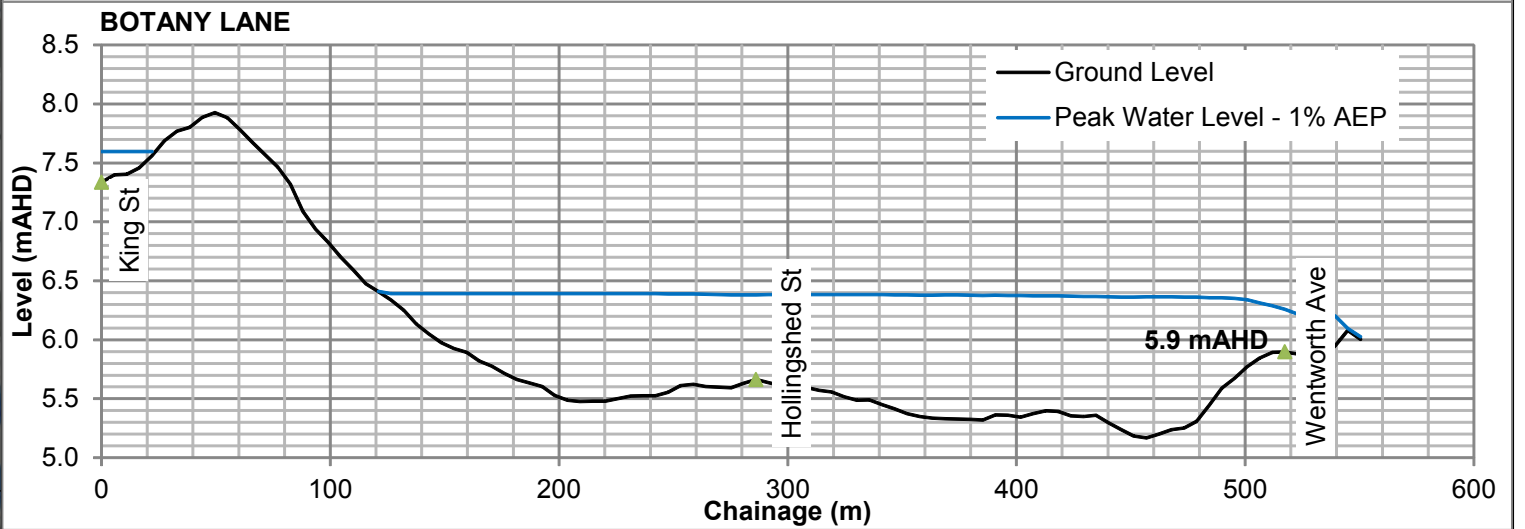
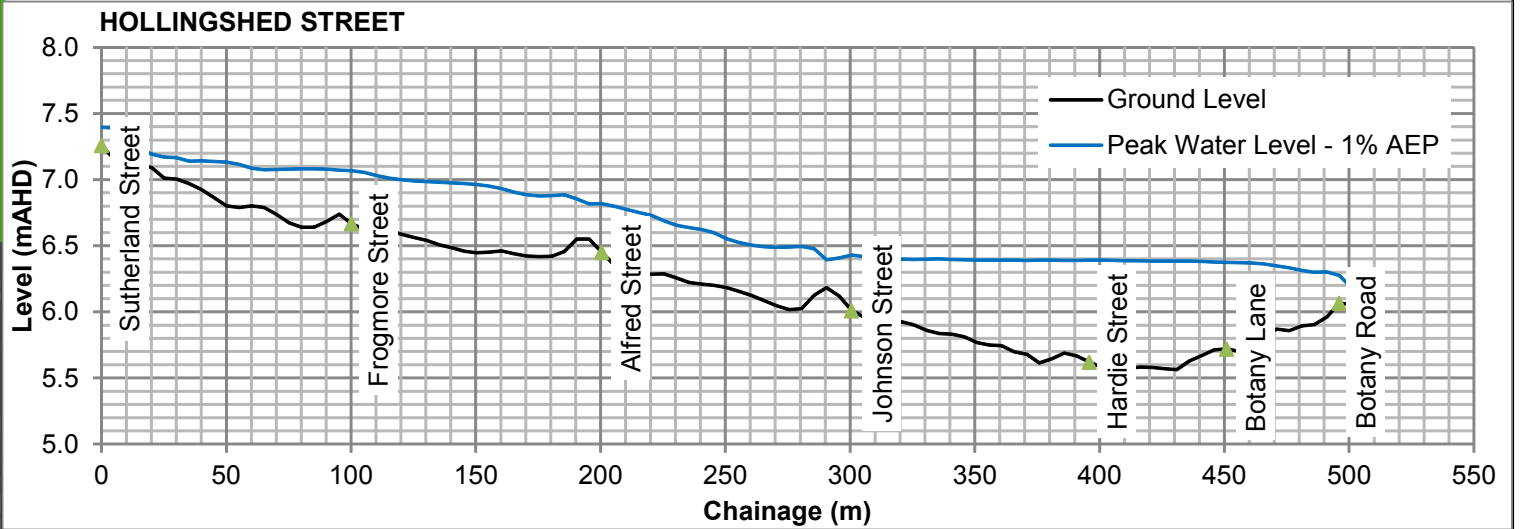


FIGURE B24
**GARDENERS ROAD AND
 CARINYA AVENUE LOW POINTS**

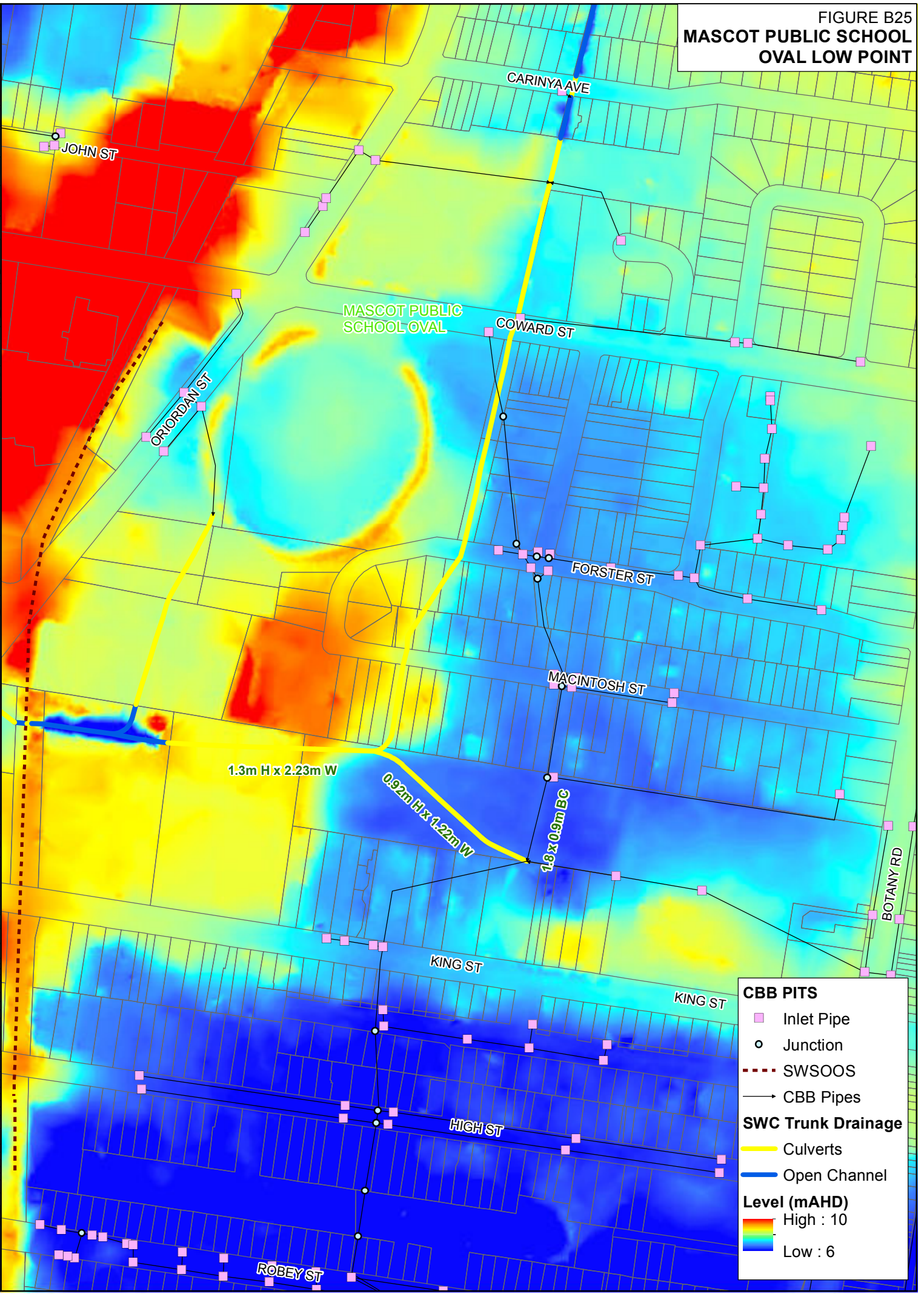
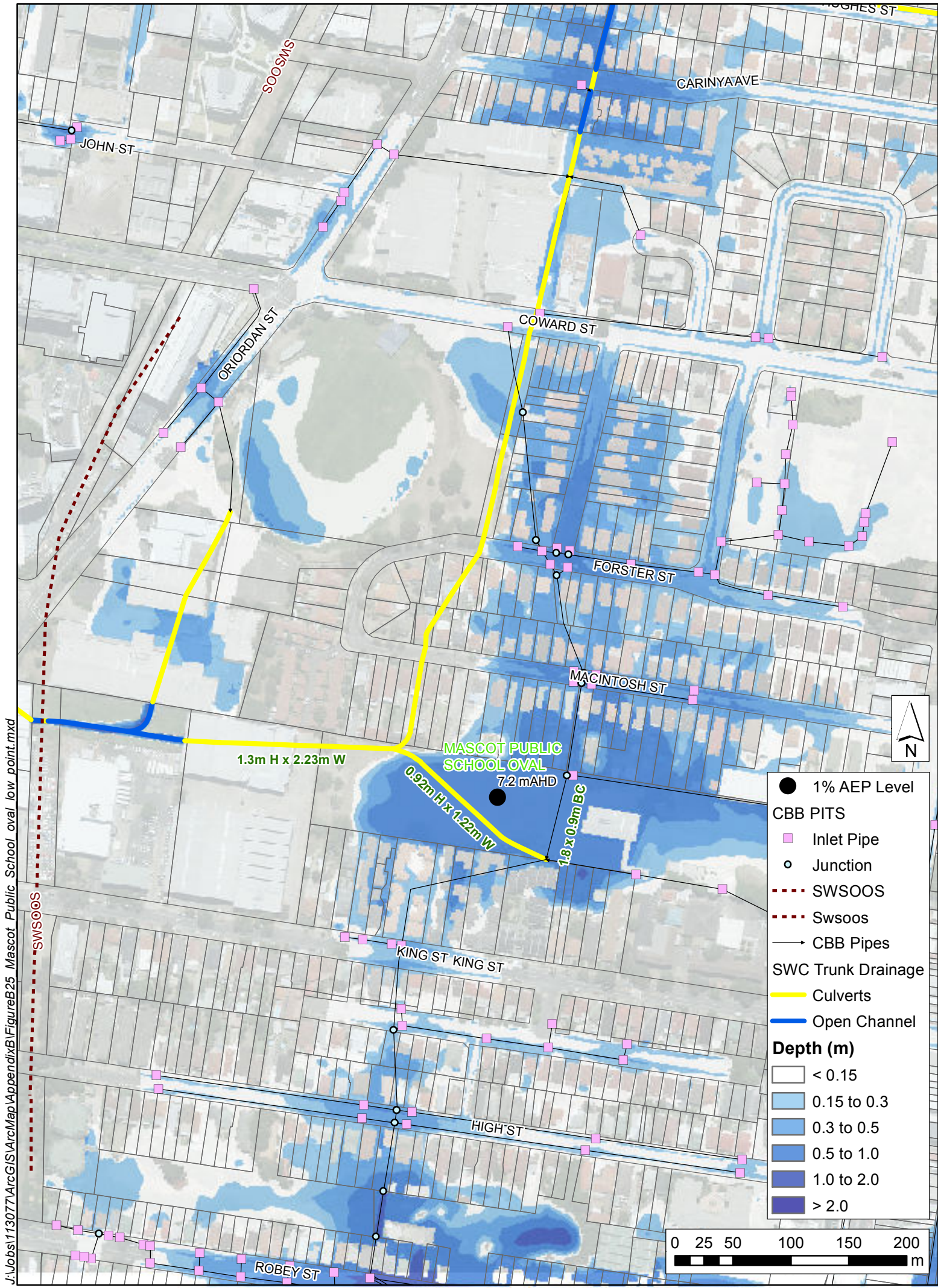


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A) SWC channel looking upstream

FIGURE B25
**MASCOT PUBLIC SCHOOL
 OVAL LOW POINT**



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FIGURE B26
BAXTER ROAD LOW POINT



- 1% AEP Level
- CBB PITS**
- Inlet Pipe
- Junction
- CBB Pipes
- Depth (m)**
- < 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- > 2.0

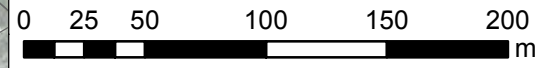
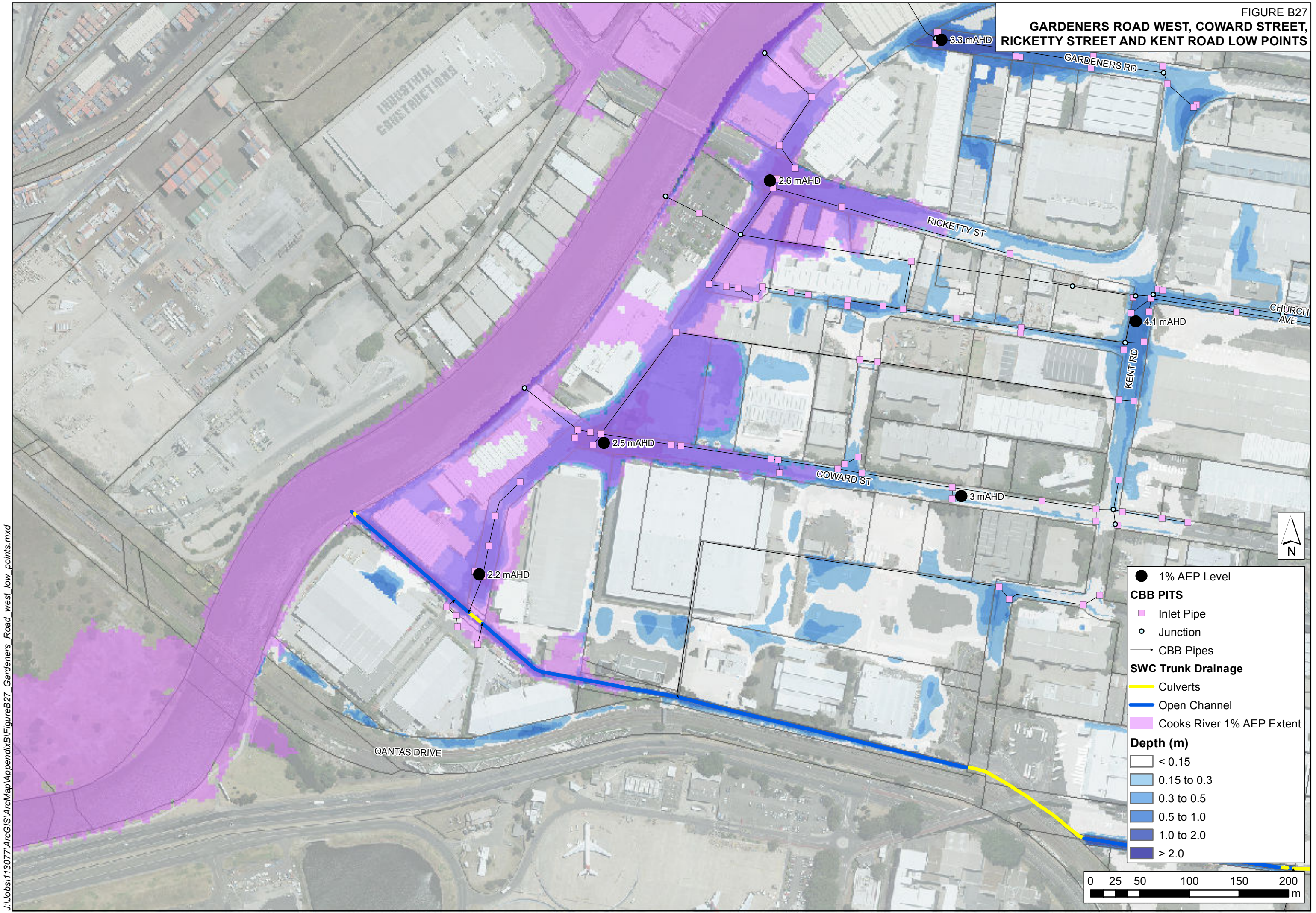
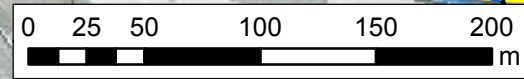


FIGURE B27

GARDENERS ROAD WEST, COWARD STREET, RICKETTY STREET AND KENT ROAD LOW POINTS

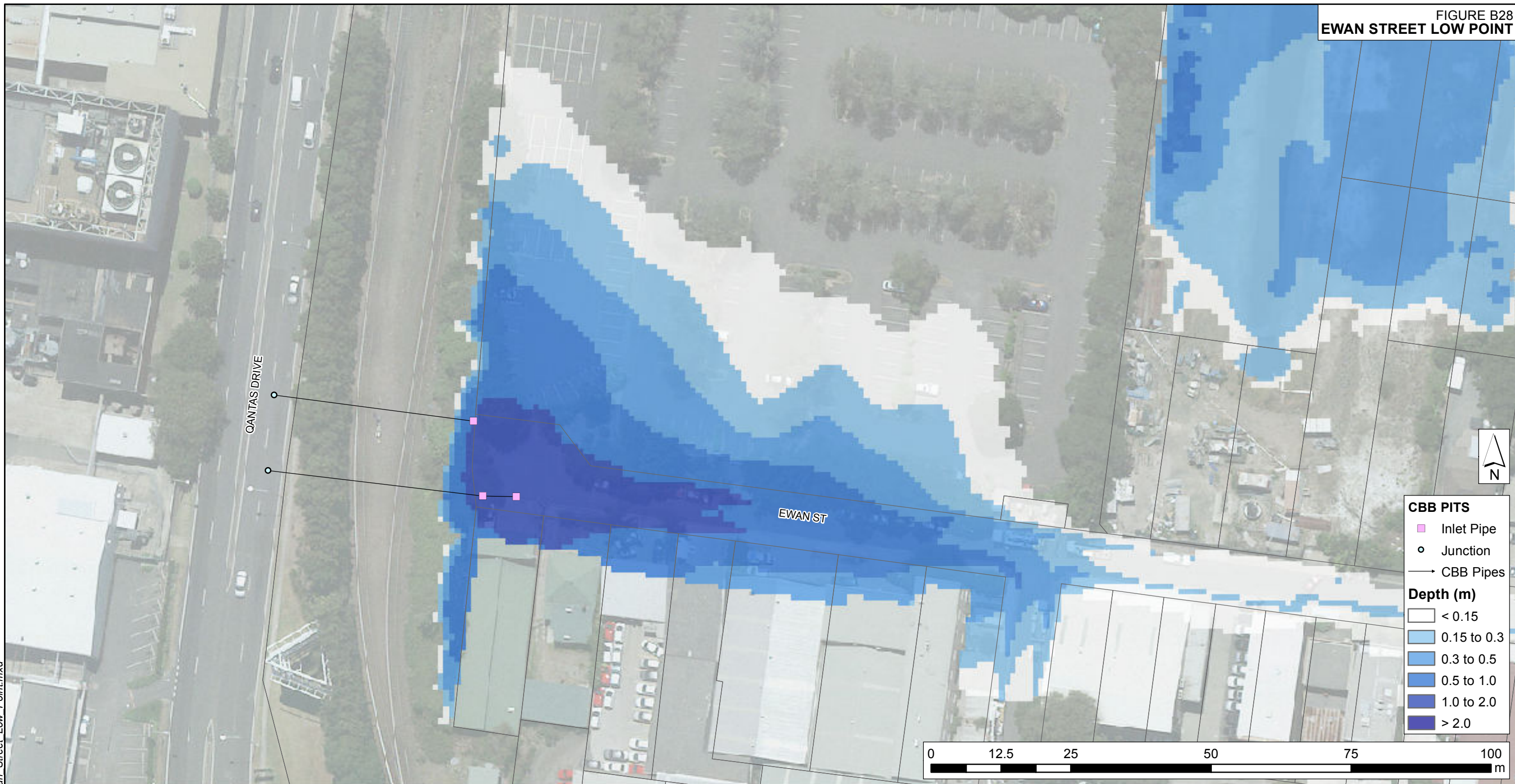


- 1% AEP Level
- CBB PITS**
 - Inlet Pipe
 - Junction
 - CBB Pipes
- SWC Trunk Drainage**
 - Culverts
 - Open Channel
 - Cooks River 1% AEP Extent
- Depth (m)**
 - < 0.15
 - 0.15 to 0.3
 - 0.3 to 0.5
 - 0.5 to 1.0
 - 1.0 to 2.0
 - > 2.0



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FIGURE B28
EWAN STREET LOW POINT



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1) Ewan Street looking west towards the low point



2) Ewan Street low point



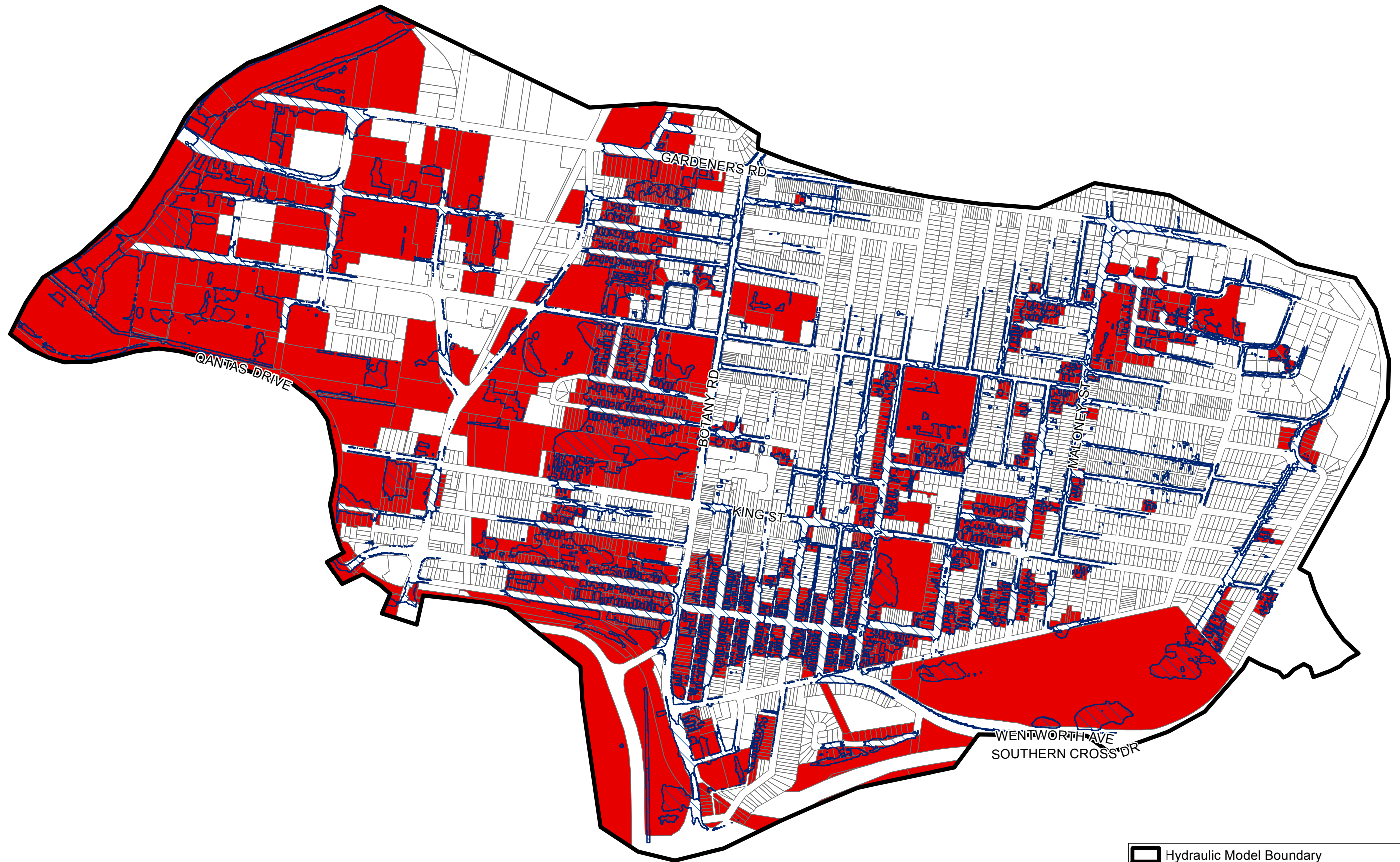
3) Example of inlet pit and vegetation



4) Ewan Street looking south from low point



PRELIMINARY FLOOD CONTROL LOTS - 1% AEP FLOOD PLANNING AREA
MASCOT, ROSEBERRY AND EASTLAKES



- Hydraulic Model Boundary
- Filtered 1% AEP Flood Extent (> 0.15 m depth)
- 1% AEP Tagged

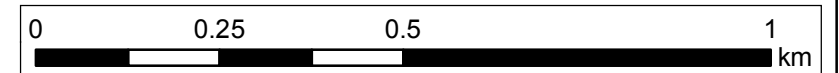
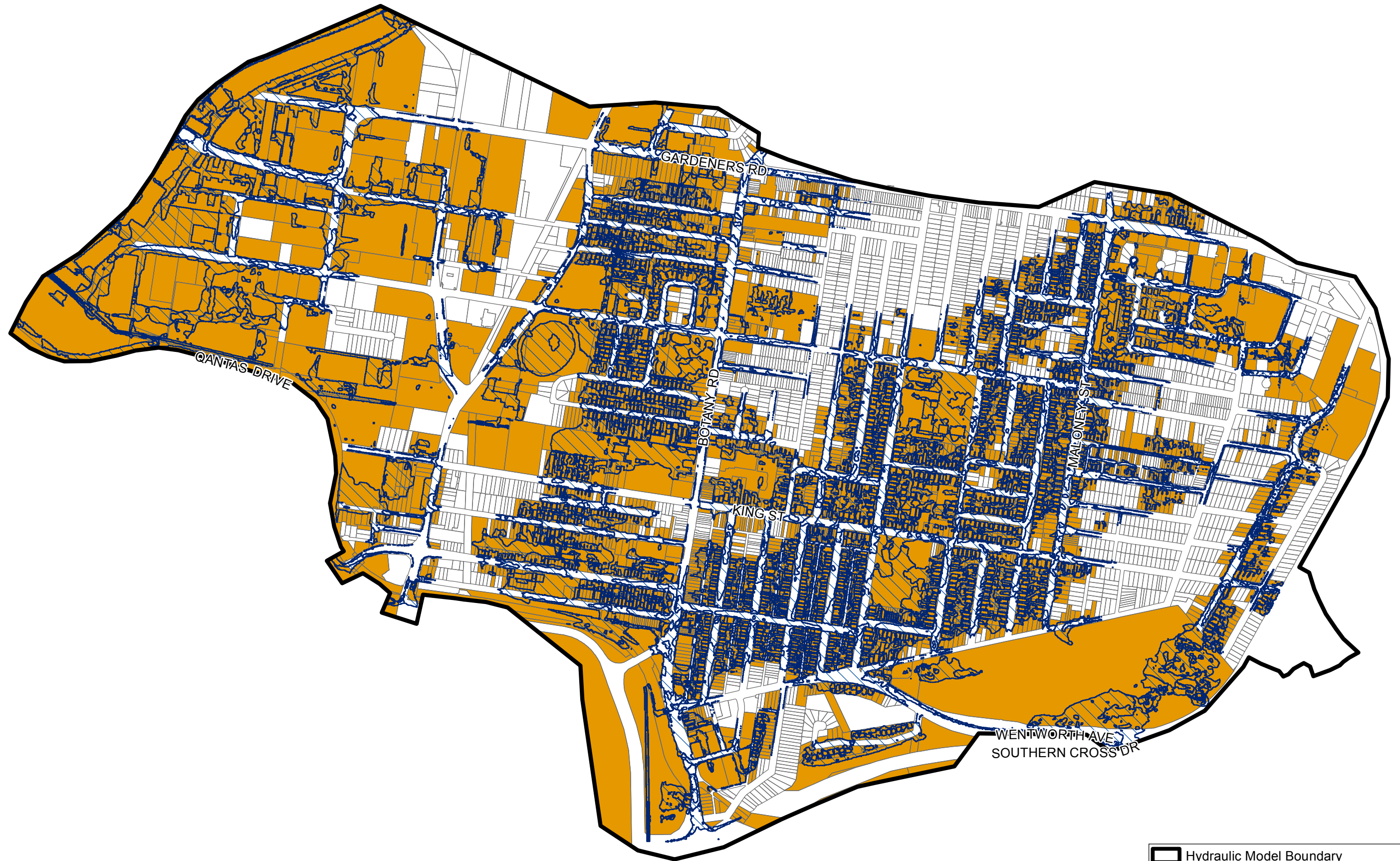


FIGURE B30
PRELIMINARY FLOOD CONTROL LOTS – PMF
MASCOT, ROSEBERRY AND EASTLAKES



Hydraulic Model Boundary
Filtered PMF Flood Extent (> 0.15 m depth)
PMF Tagged

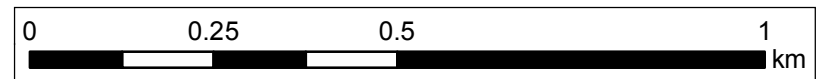
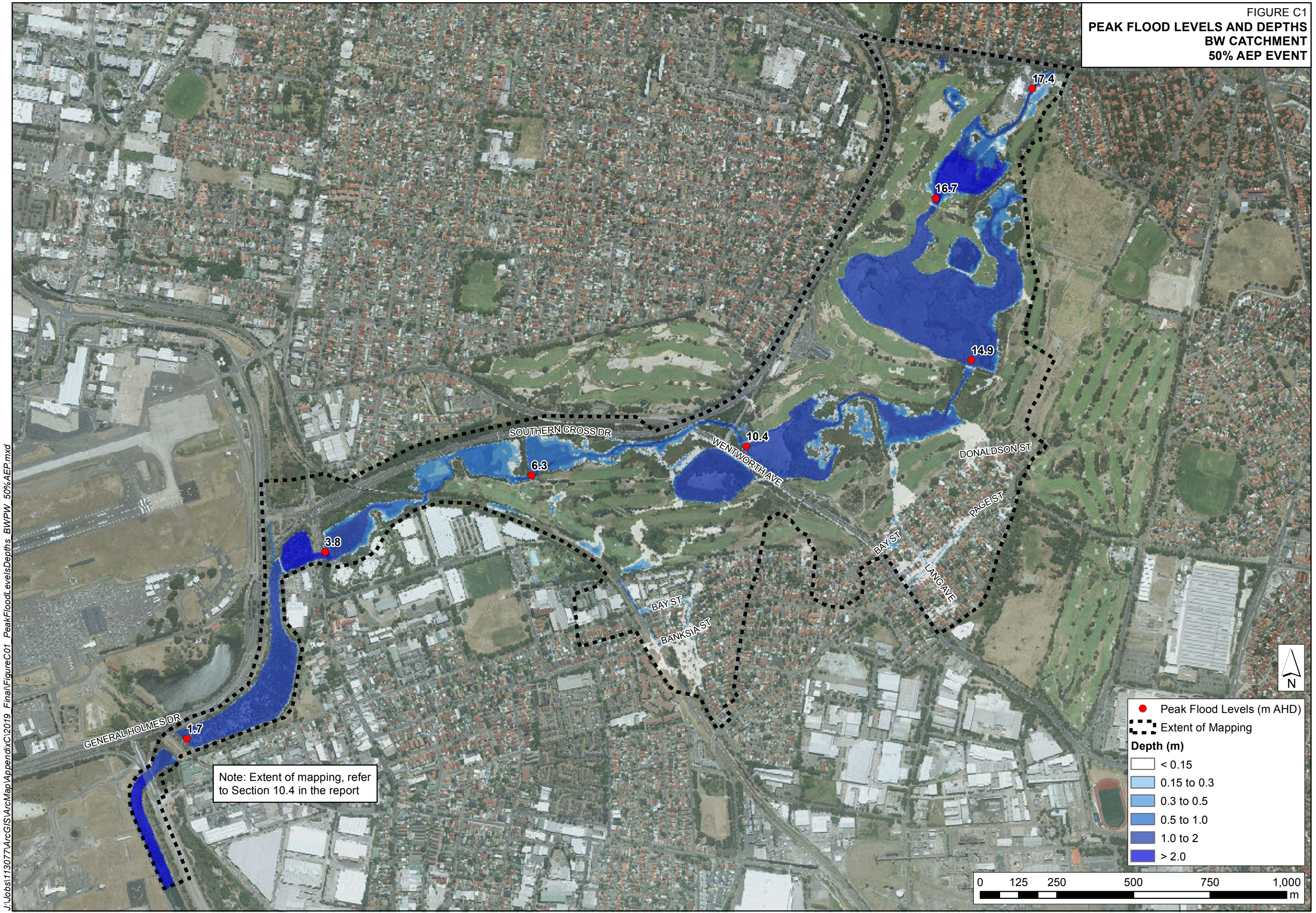




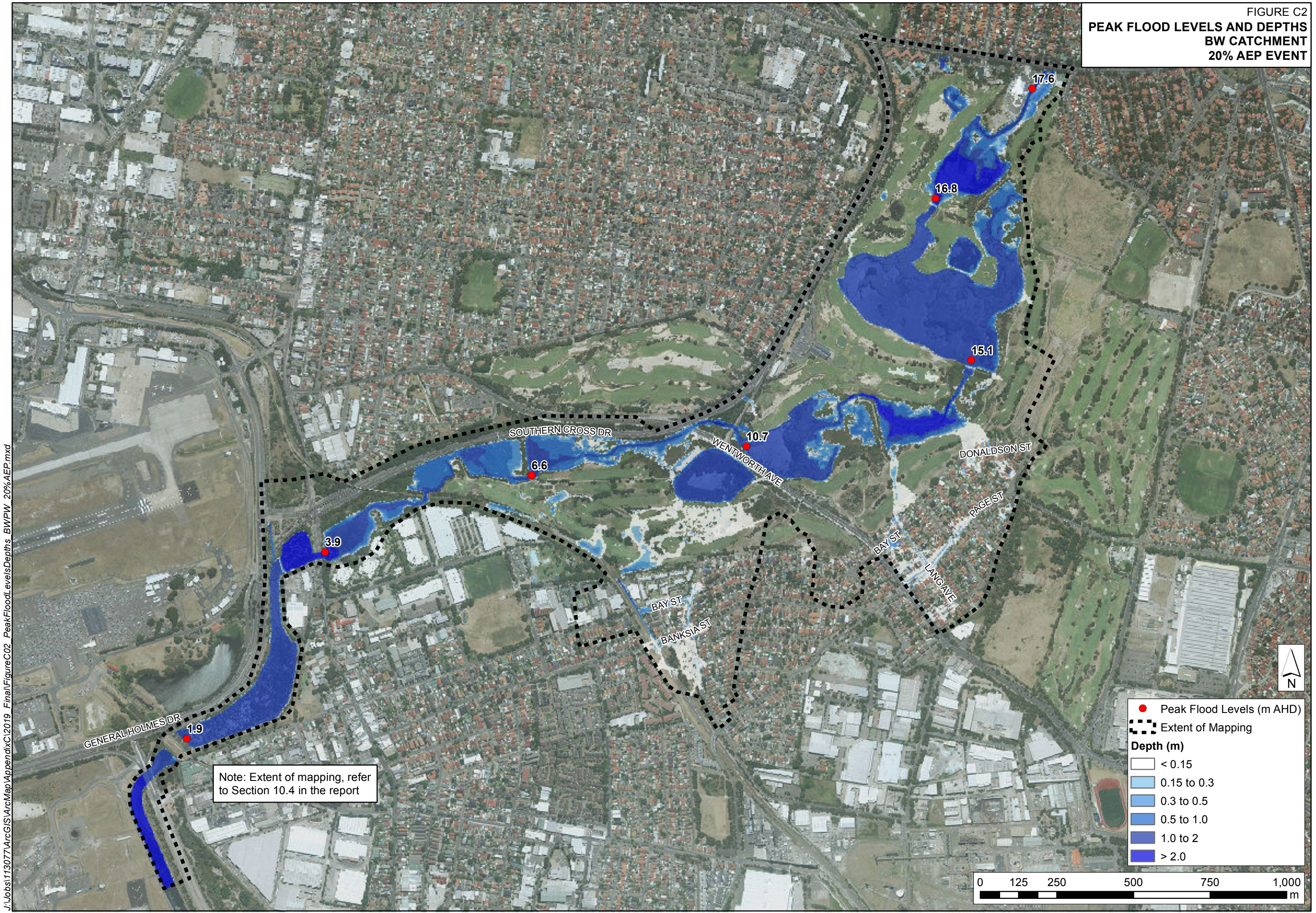
FIGURE C1
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 50% AEP EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

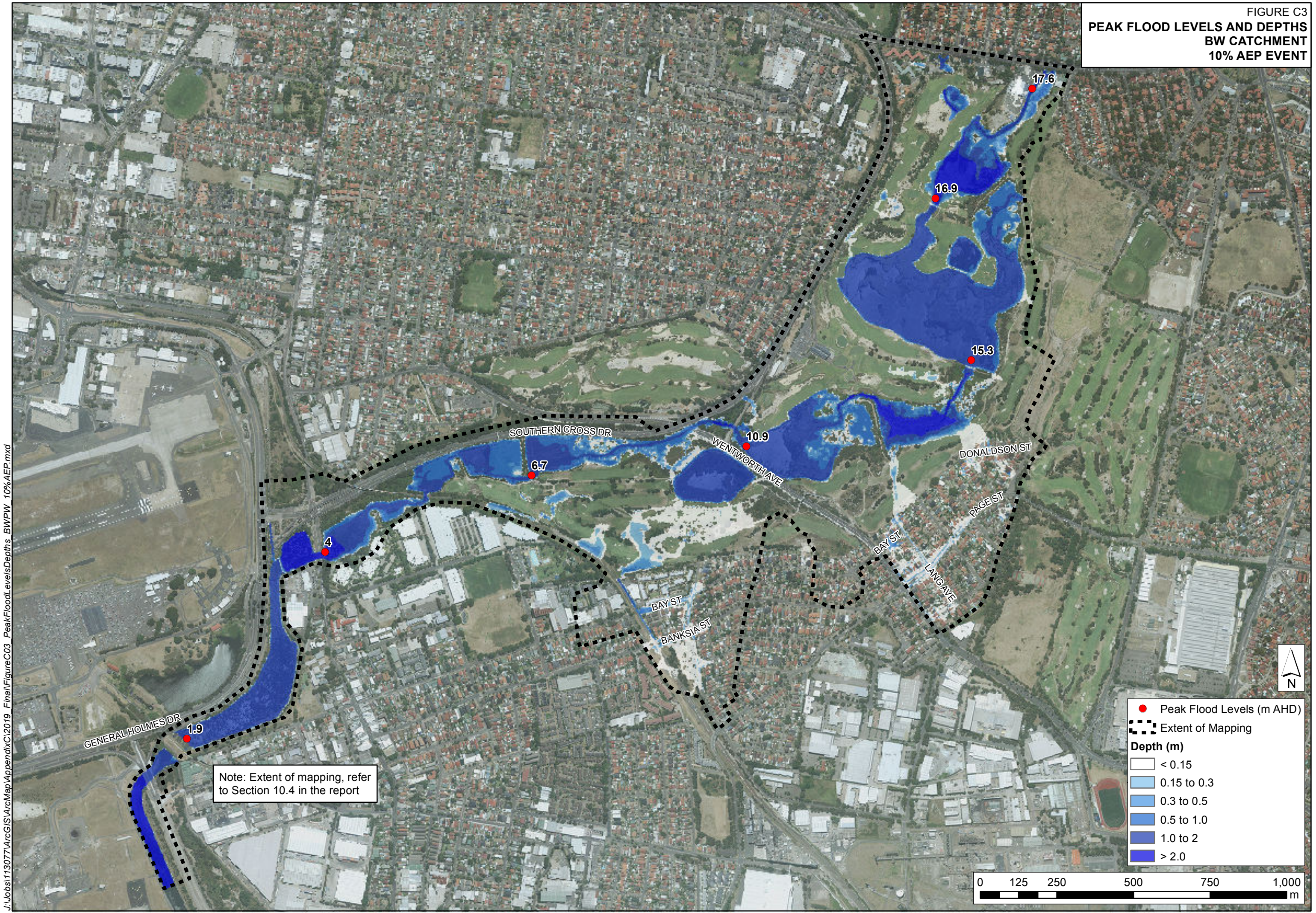
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FIGURE C2
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 20% AEP EVENT



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FIGURE C3
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 10% AEP EVENT



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- Peak Flood Levels (m AHD)
- Extent of Mapping

Depth (m)

- < 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- 1.0 to 2
- > 2.0

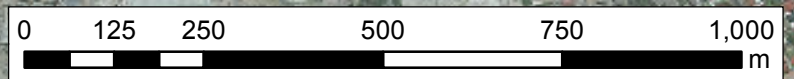
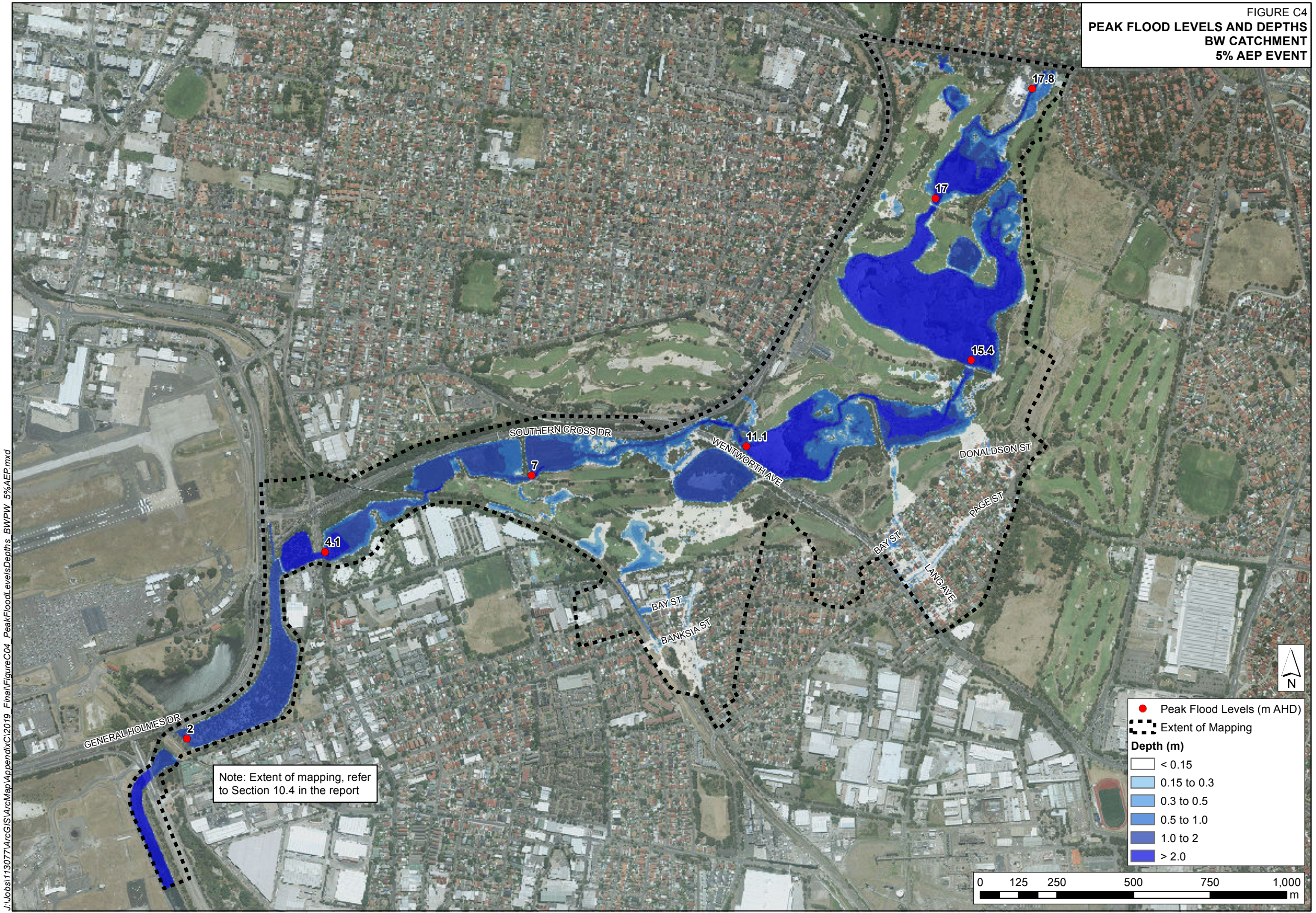
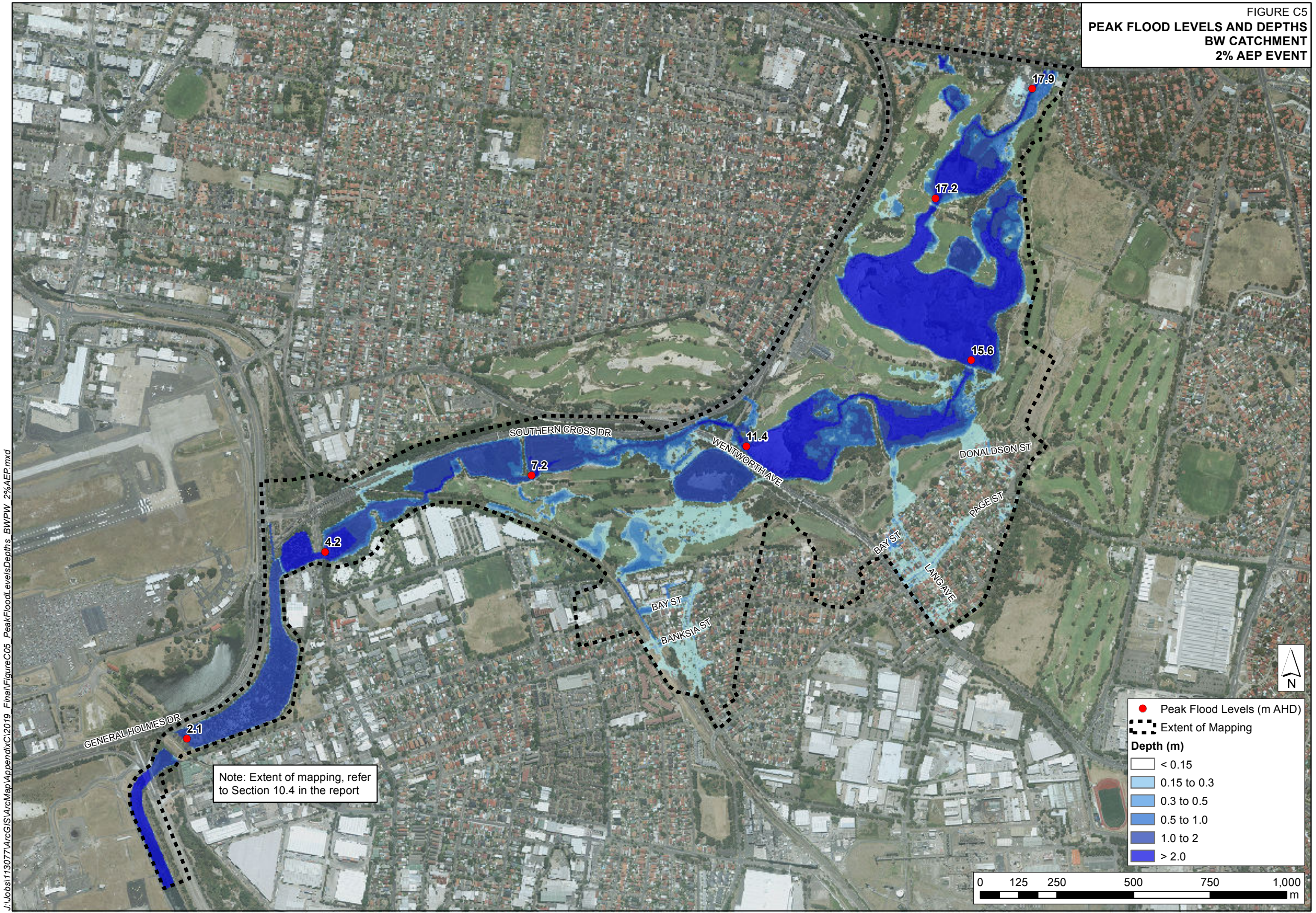


FIGURE C4
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 5% AEP EVENT



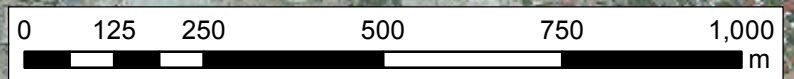
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FIGURE C5
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 2% AEP EVENT



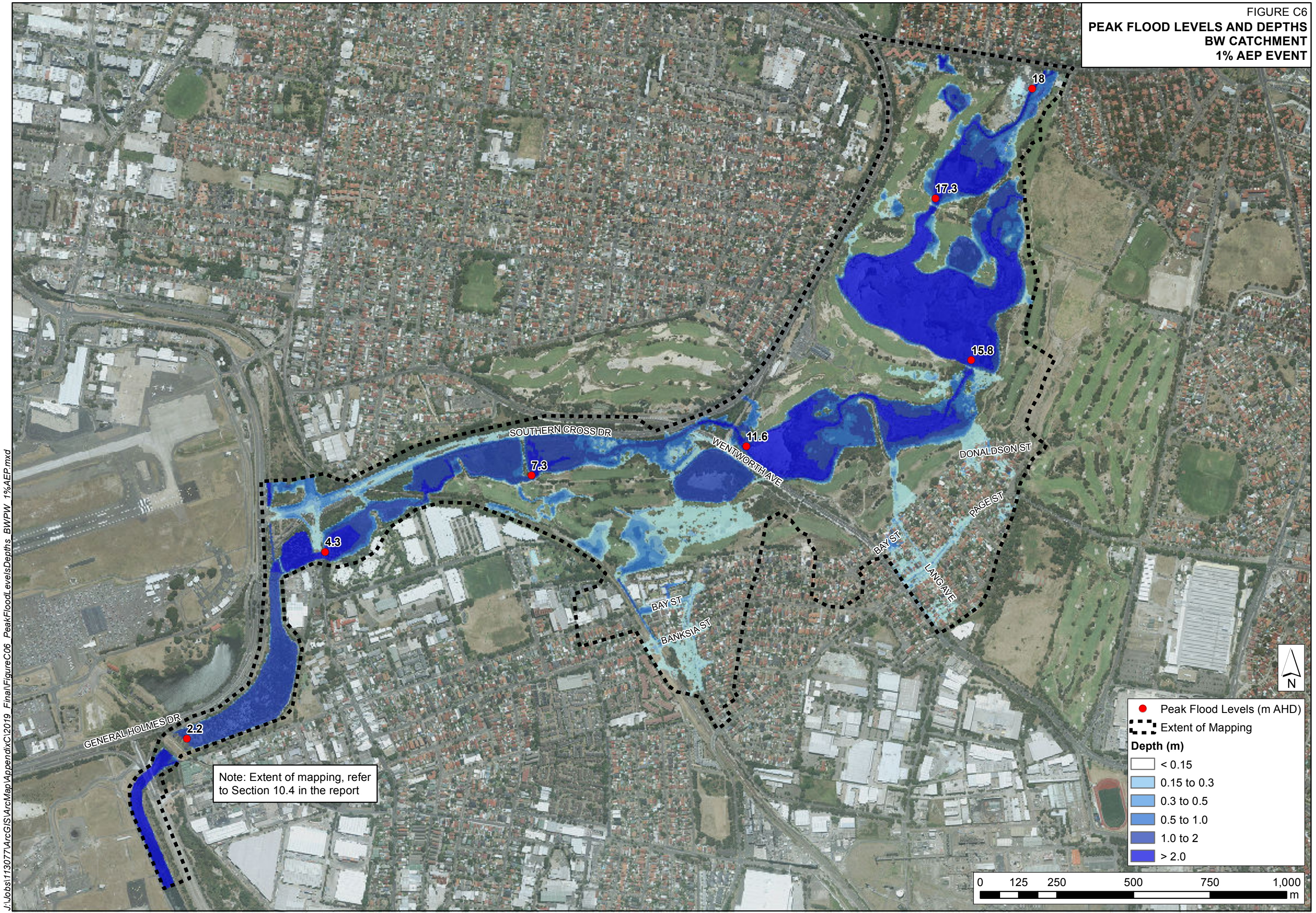
Note: Extent of mapping, refer to Section 10.4 in the report

- Peak Flood Levels (m AHD)
- Extent of Mapping
- Depth (m)**
- < 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- 1.0 to 2
- > 2.0



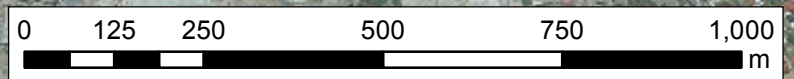
J:\Jobs\1130771\ArcGIS\ArcMap\AppendixC\2019_Final\FigureC05_PeakFloodLevelsDepths_BWPW_2%AEP.mxd

FIGURE C6
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 1% AEP EVENT



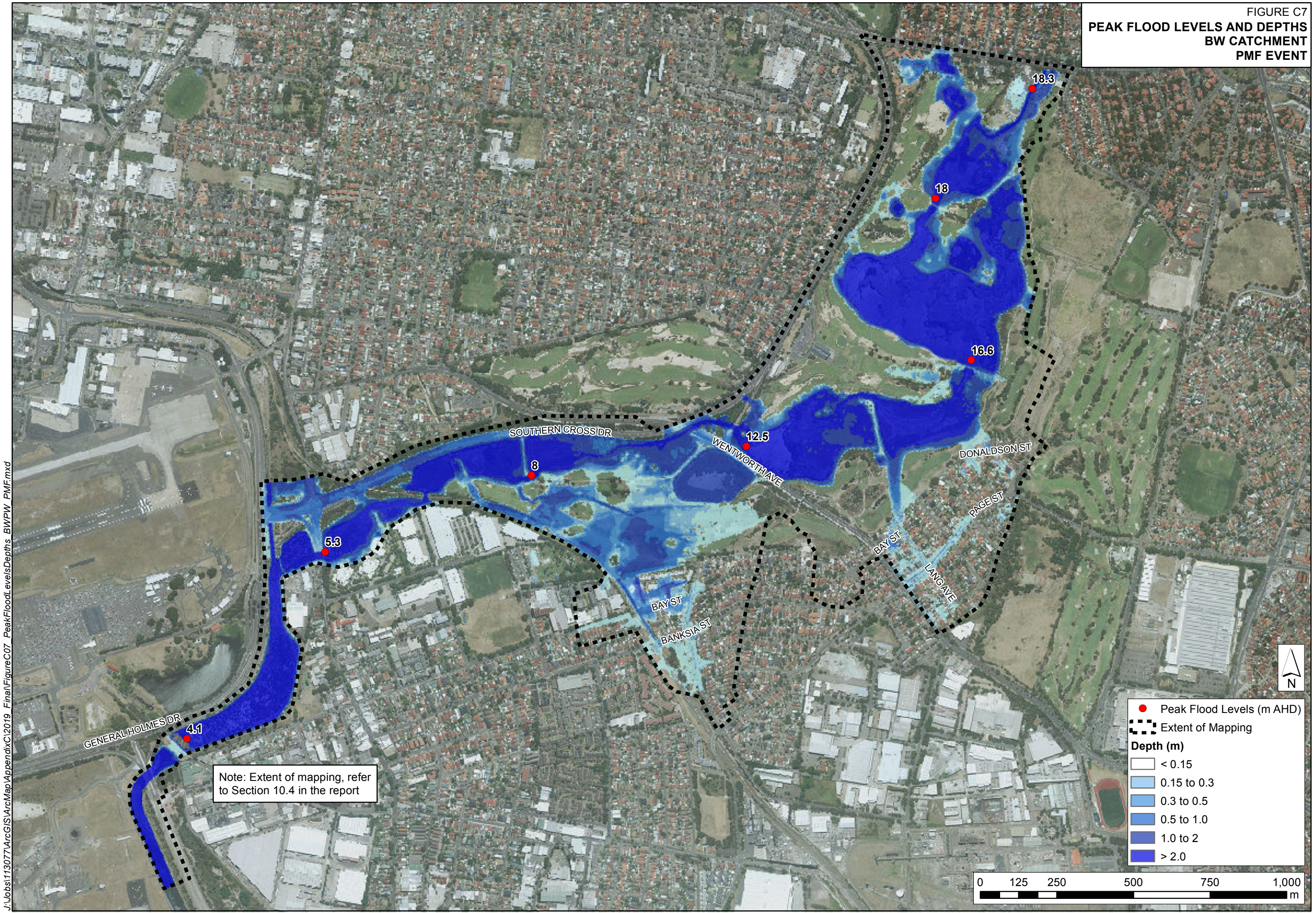
Note: Extent of mapping, refer to Section 10.4 in the report

- Peak Flood Levels (m AHD)
- Extent of Mapping
- Depth (m)**
- < 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- 1.0 to 2
- > 2.0



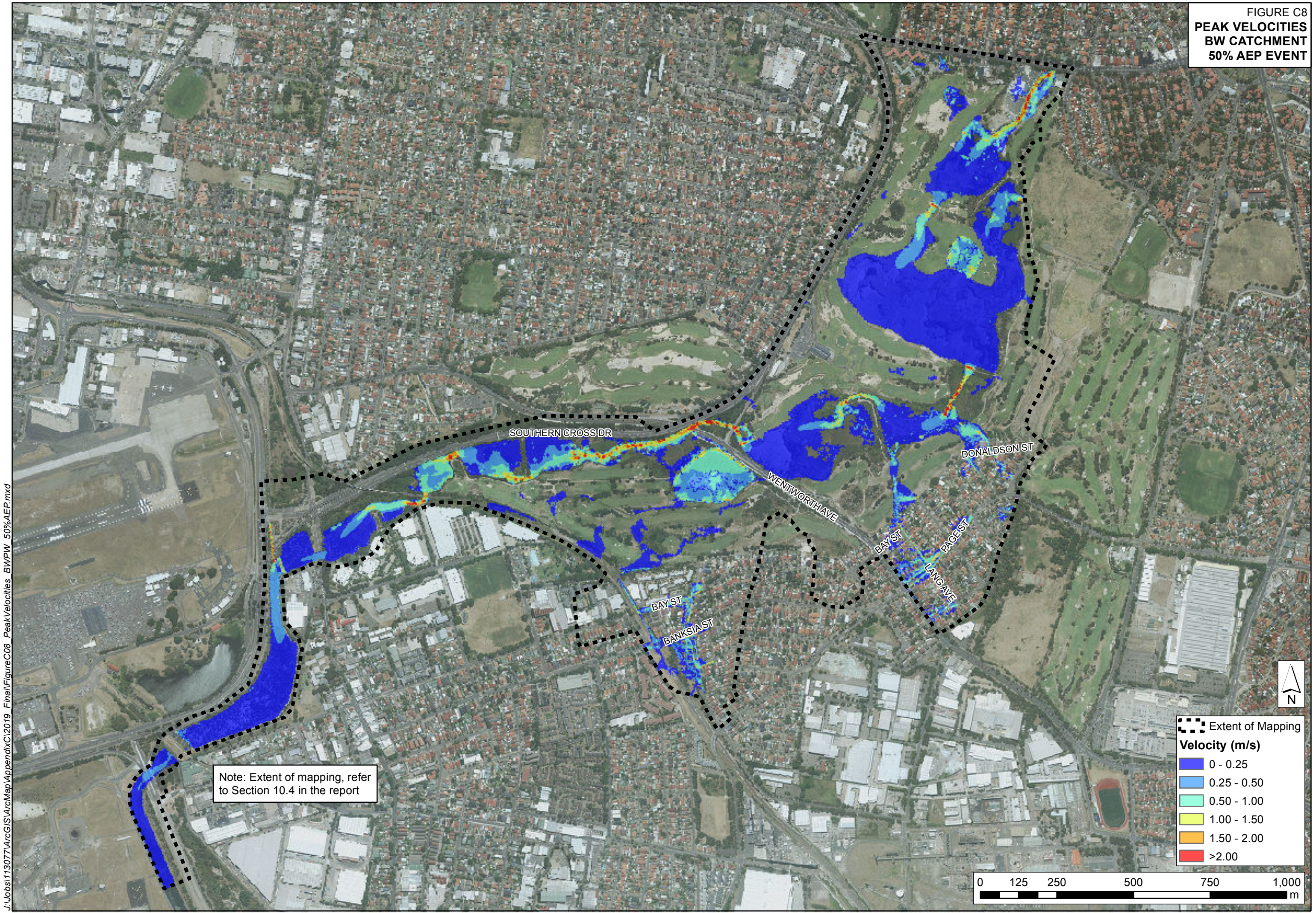
J:\Jobs\1130771\ArcGIS\Map\AppendixC\2019_Final\FigureC06_PeakFloodLevelsDepths_BWPW_1%AEPR.mxd

FIGURE C7
 PEAK FLOOD LEVELS AND DEPTHS
 BW CATCHMENT
 PMF EVENT



J:\Jobs\1130771\ArcGIS\Map\AppendixC\2019_Final\FigureC07_PeakFloodLevelsDepths_BWPW_PMF.mxd

FIGURE C8
PEAK VELOCITIES
BW CATCHMENT
50% AEP EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

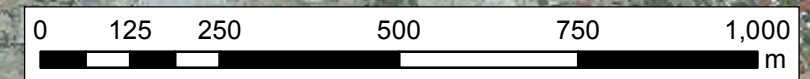
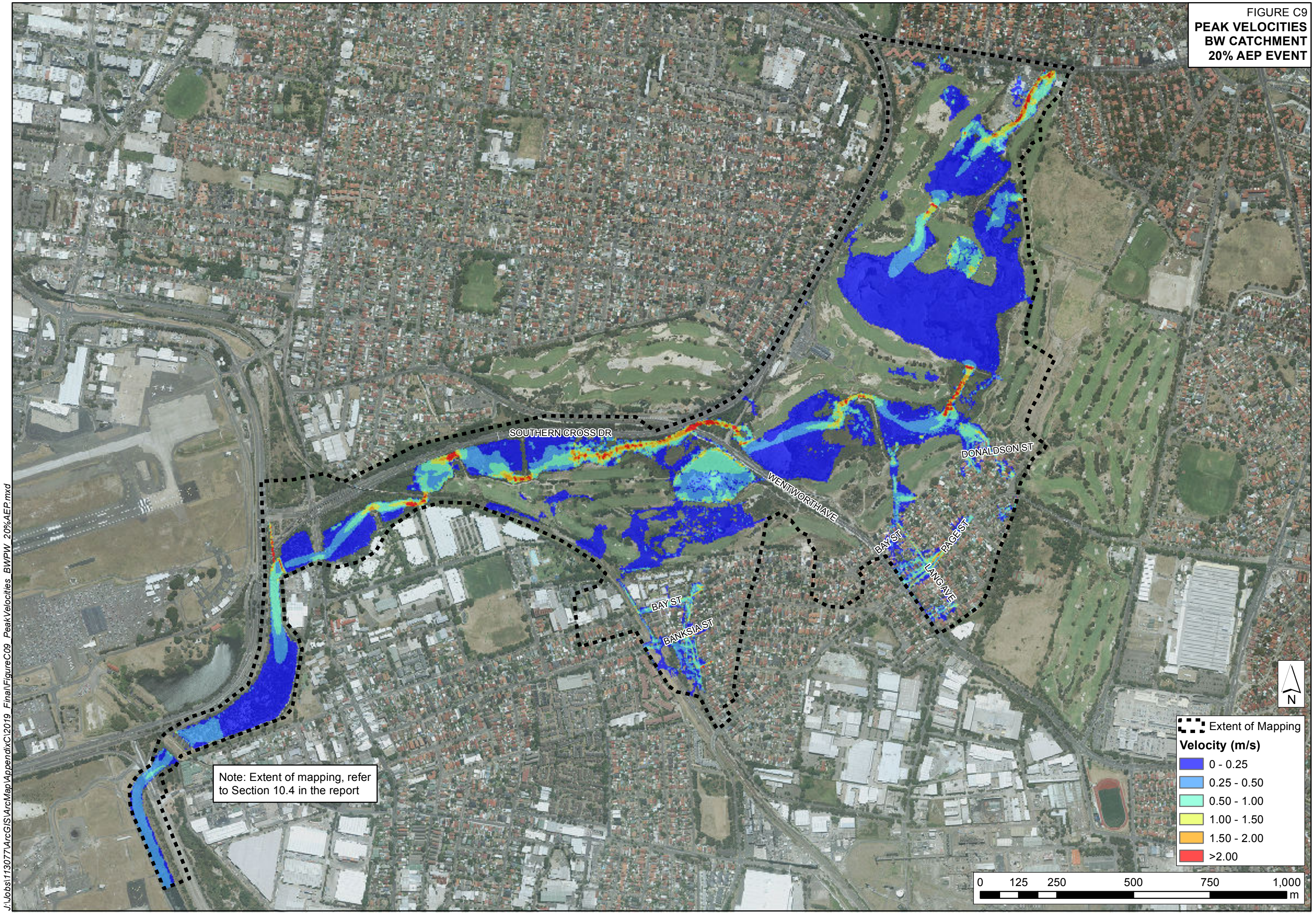


FIGURE C9
 PEAK VELOCITIES
 BW CATCHMENT
 20% AEP EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

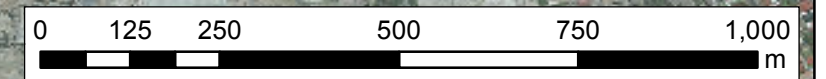
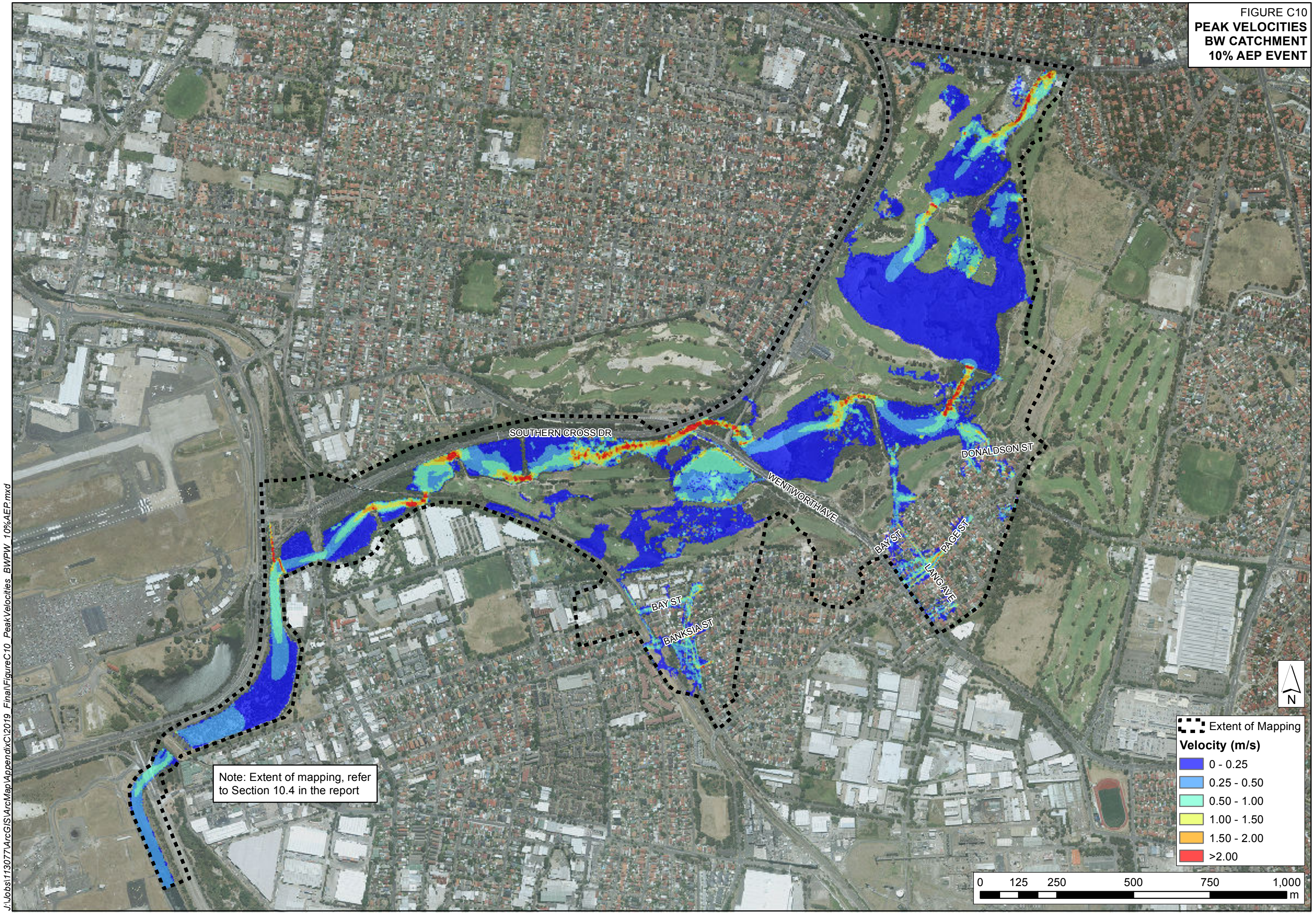


FIGURE C10
PEAK VELOCITIES
BW CATCHMENT
10% AEP EVENT



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Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

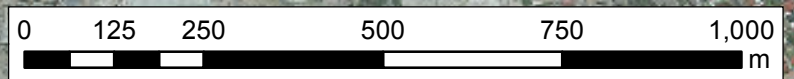
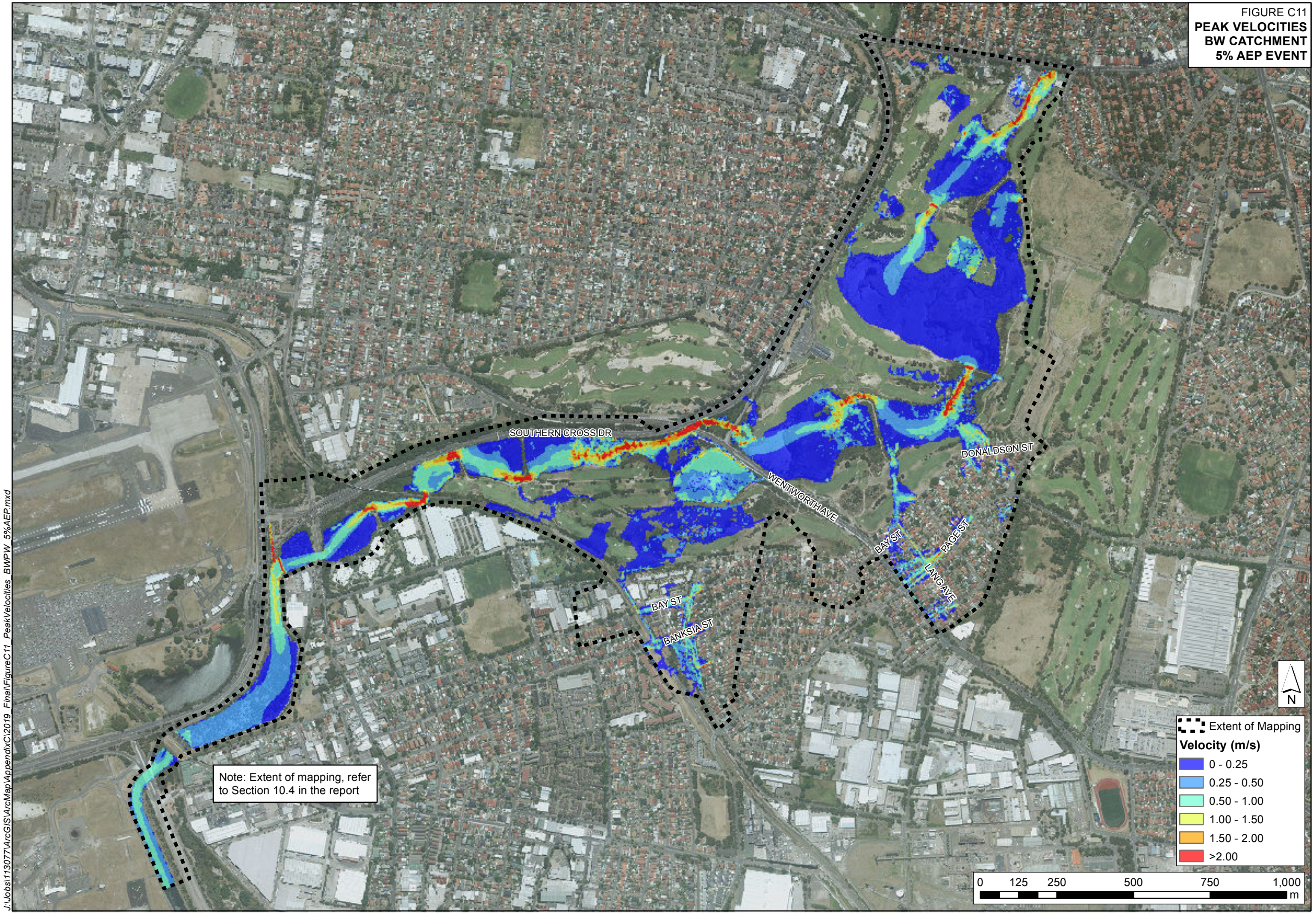


FIGURE C11
PEAK VELOCITIES
BW CATCHMENT
5% AEP EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

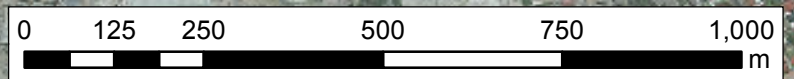
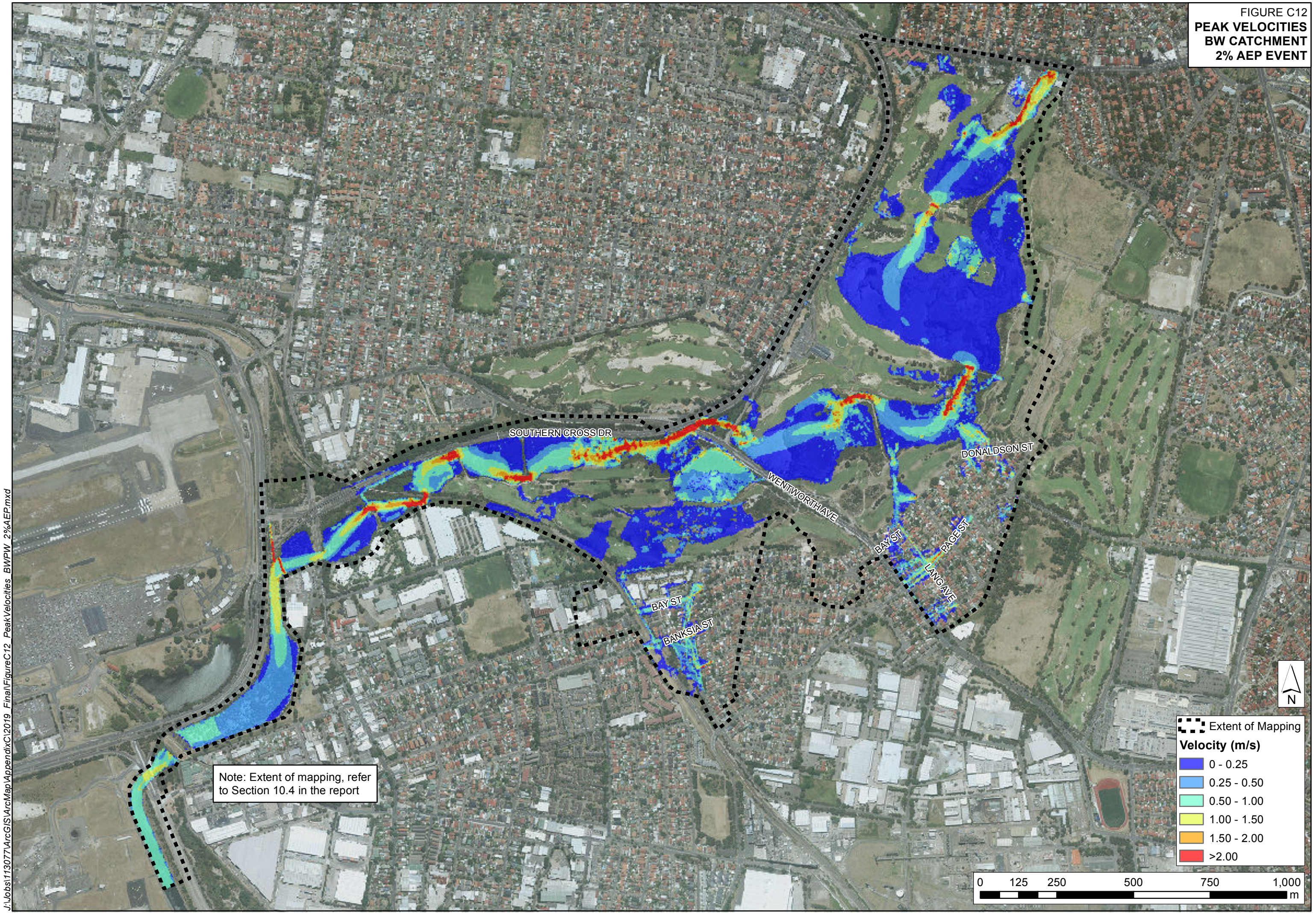


FIGURE C12
PEAK VELOCITIES
BW CATCHMENT
2% AEP EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

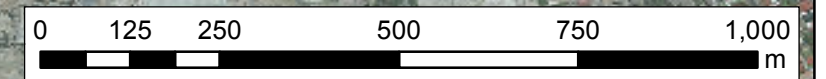
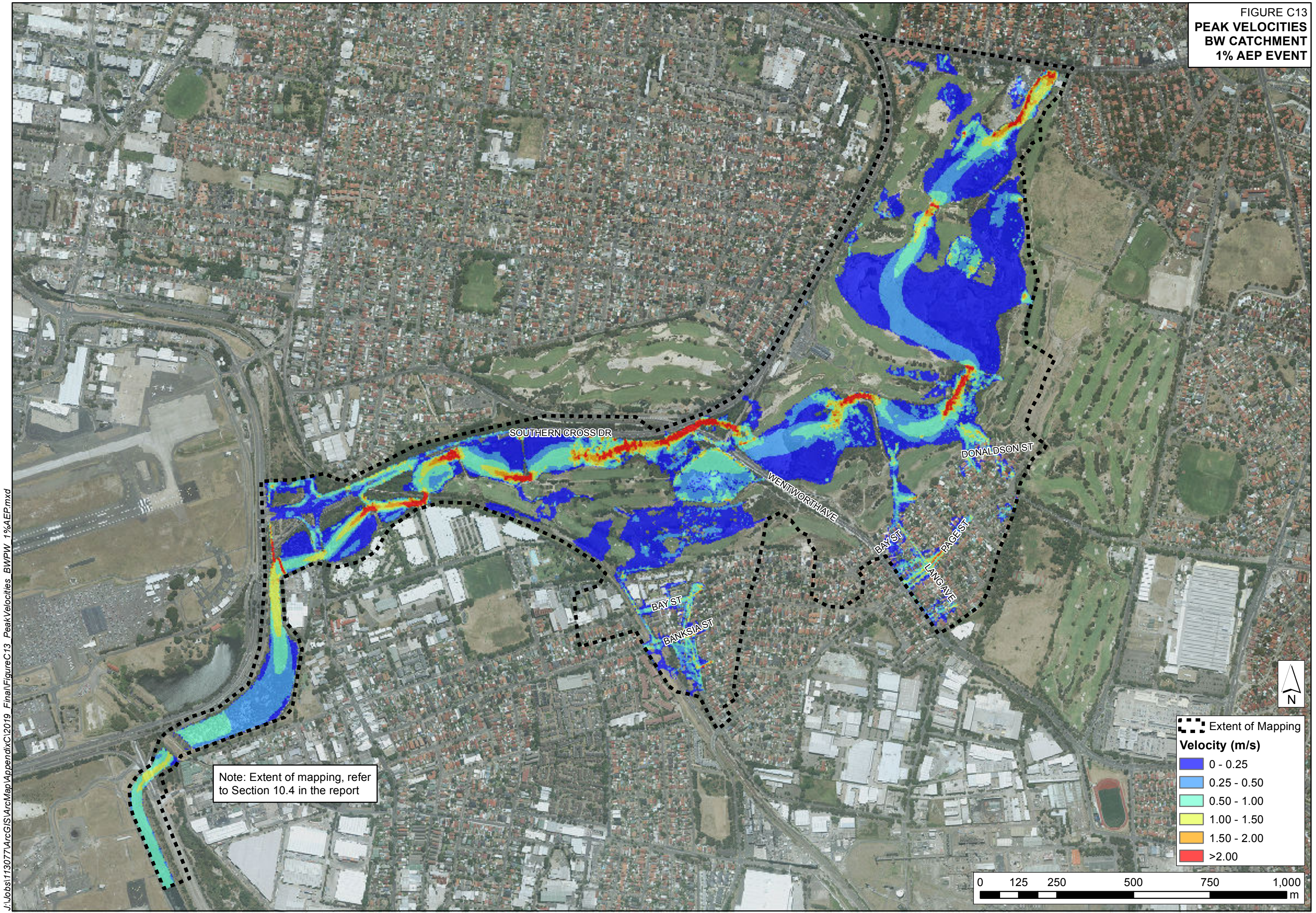


FIGURE C13
PEAK VELOCITIES
BW CATCHMENT
1% AEP EVENT



J:\Jobs\1130771\ArcGIS\ArcMap\AppendixC\2019_Final\FigureC13_PeakVelocities_BWPW_1%AEPMxd

Note: Extent of mapping, refer to Section 10.4 in the report

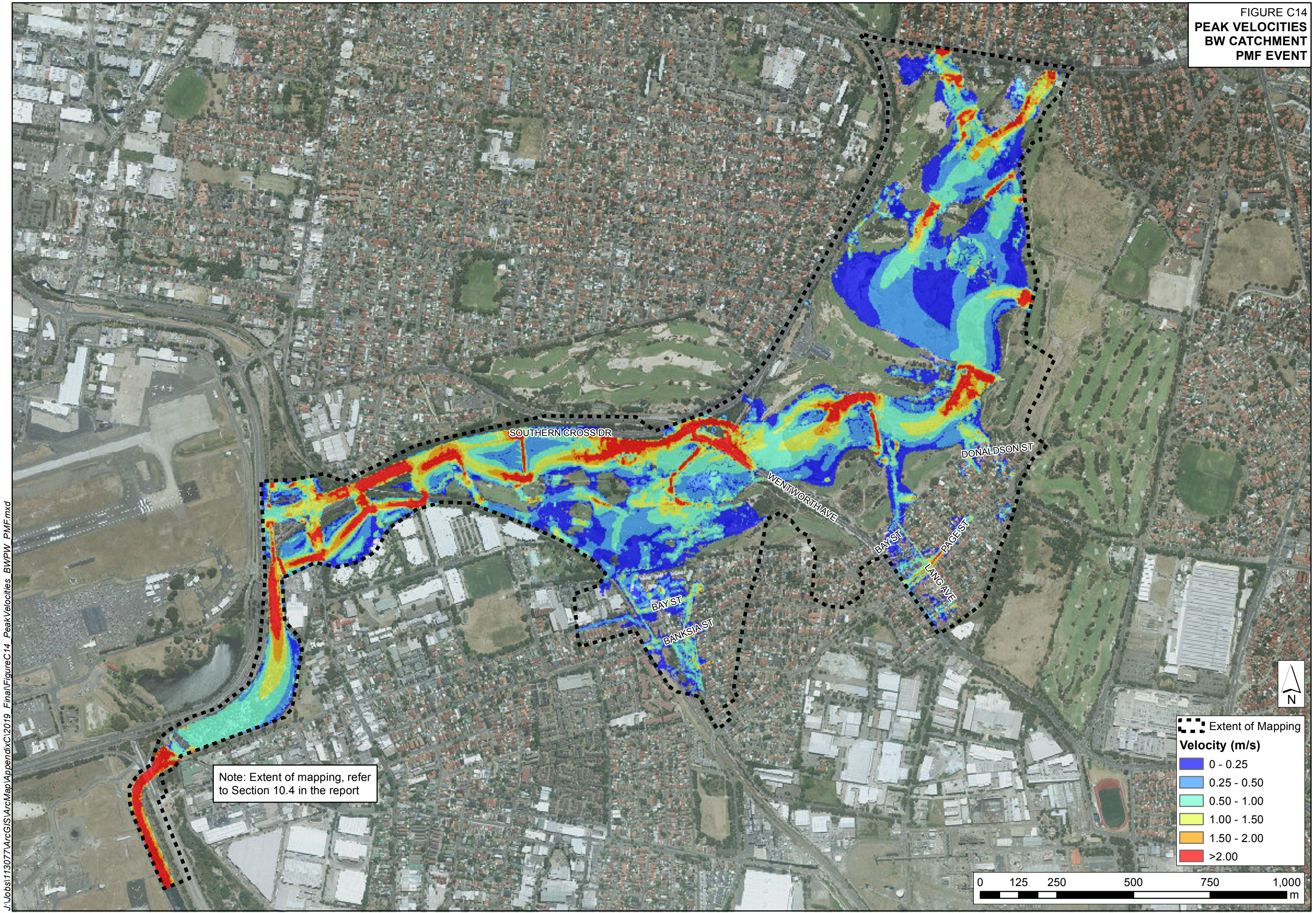
Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

0 125 250 500 750 1,000 m

FIGURE C14
PEAK VELOCITIES
BW CATCHMENT
PMF EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Velocity (m/s)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- >2.00

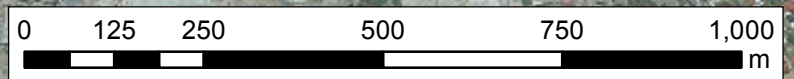
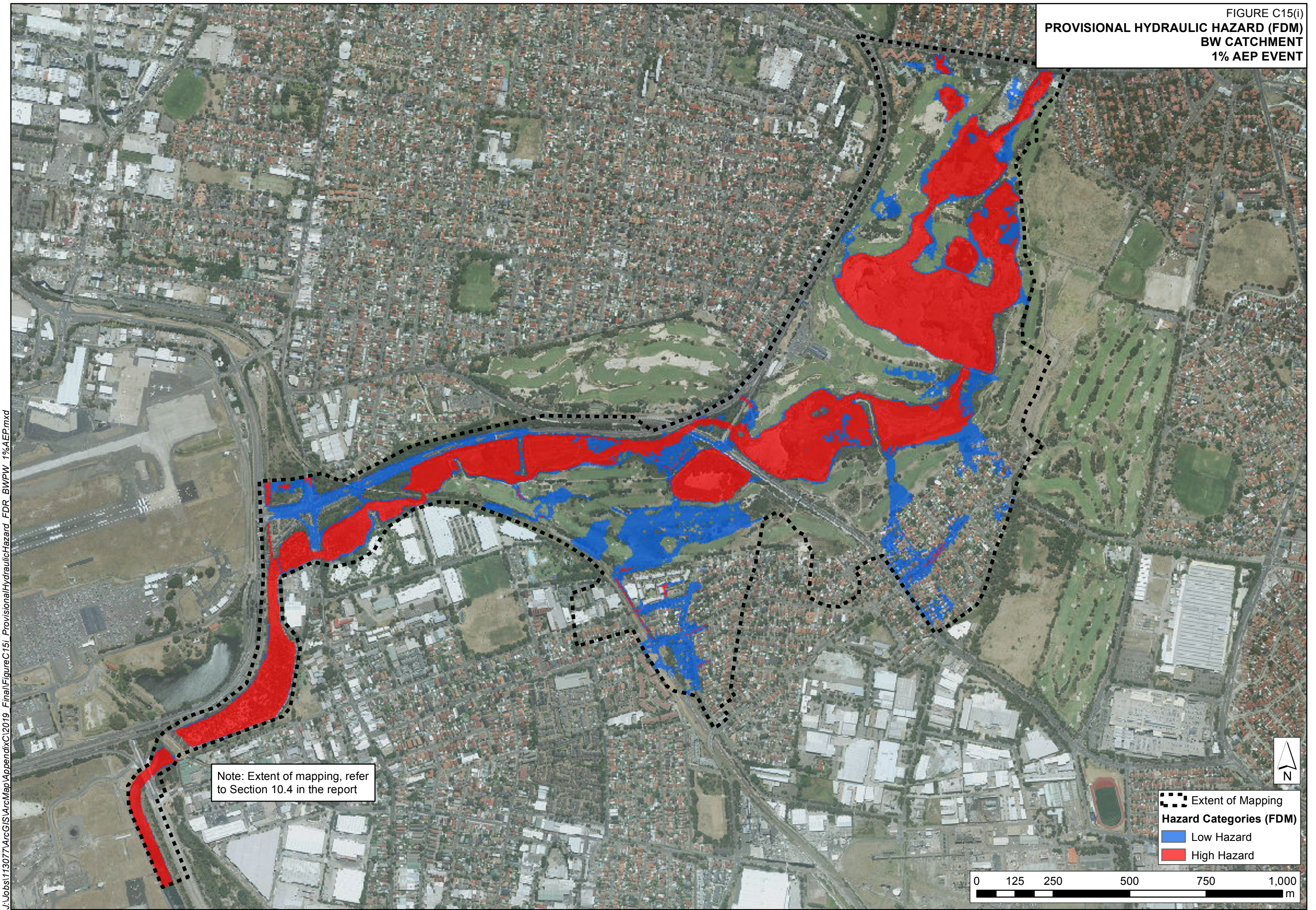


FIGURE C15(i)
PROVISIONAL HYDRAULIC HAZARD (FDM)
BW CATCHMENT
1% AEP EVENT



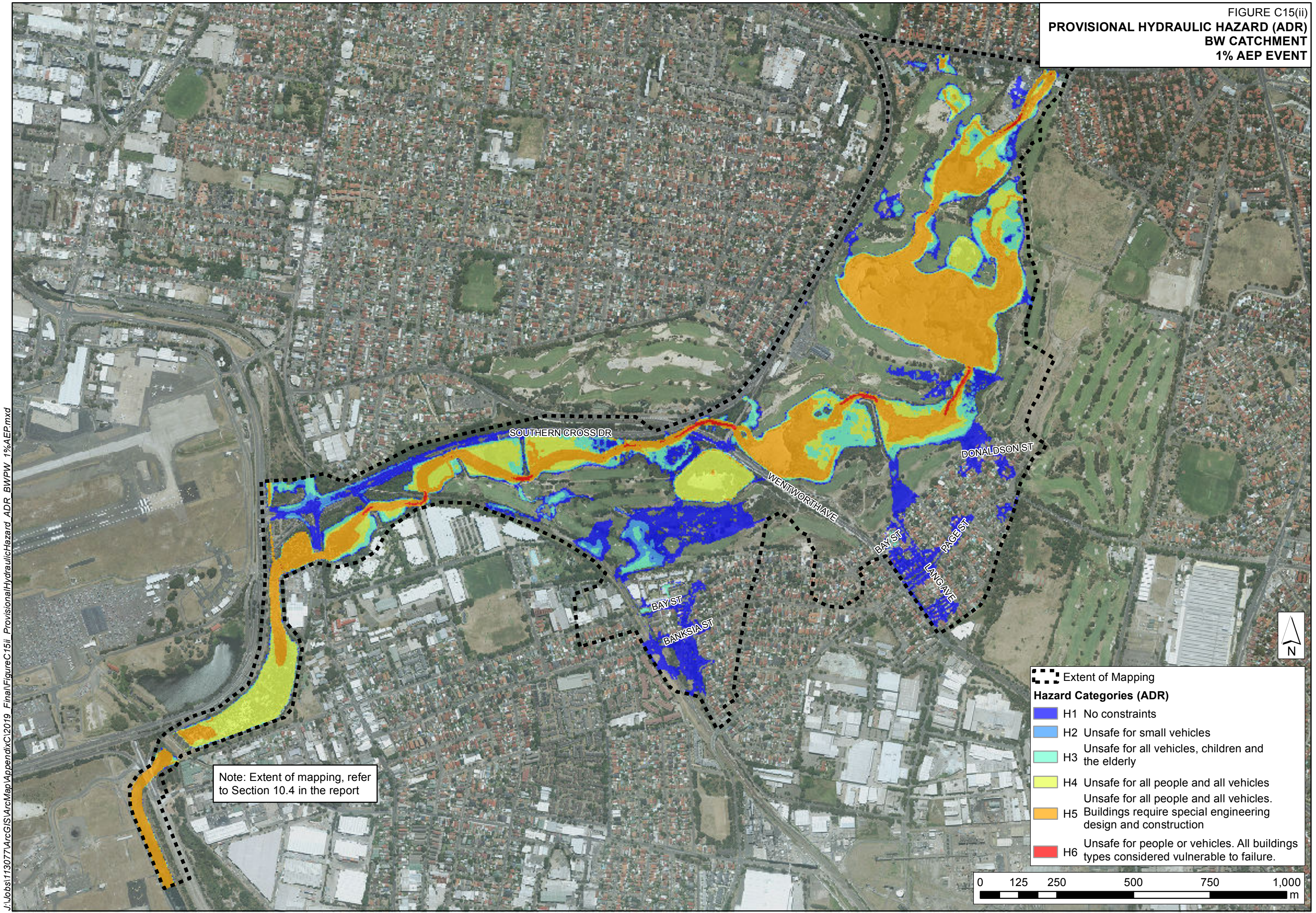
J:\Jobs\1130771\ArcGIS\ArcMap\AppendixC\2019_Final\FigureC15i_ProvisionalHydraulicHazard_FDR_BWPW_1%AEF.mxd

Note: Extent of mapping, refer to Section 10.4 in the report

- Extent of Mapping
- Hazard Categories (FDM)
 - Low Hazard
 - High Hazard

0 125 250 500 750 1,000 m

FIGURE C15(ii)
PROVISIONAL HYDRAULIC HAZARD (ADR)
BW CATCHMENT
1% AEP EVENT

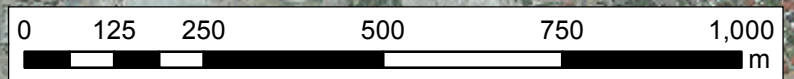


Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

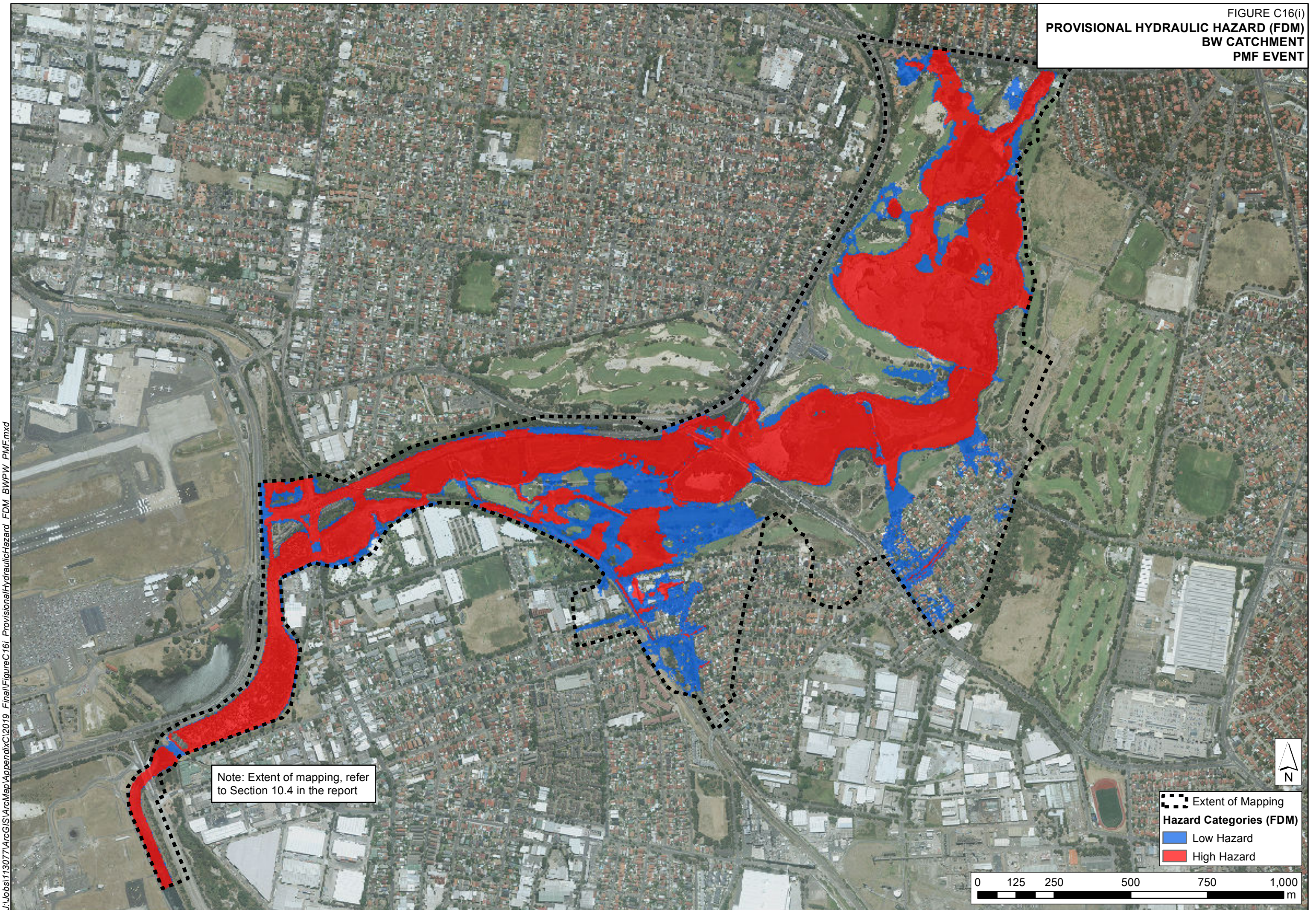
Hazard Categories (ADR)

- H1 No constraints
- H2 Unsafe for small vehicles
Unsafe for all vehicles, children and the elderly
- H3 Unsafe for all people and all vehicles
- H4 Unsafe for all people and all vehicles
- H5 Buildings require special engineering design and construction
- H6 Unsafe for people or vehicles. All buildings types considered vulnerable to failure.



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FIGURE C16(i)
PROVISIONAL HYDRAULIC HAZARD (FDM)
BW CATCHMENT
PMF EVENT



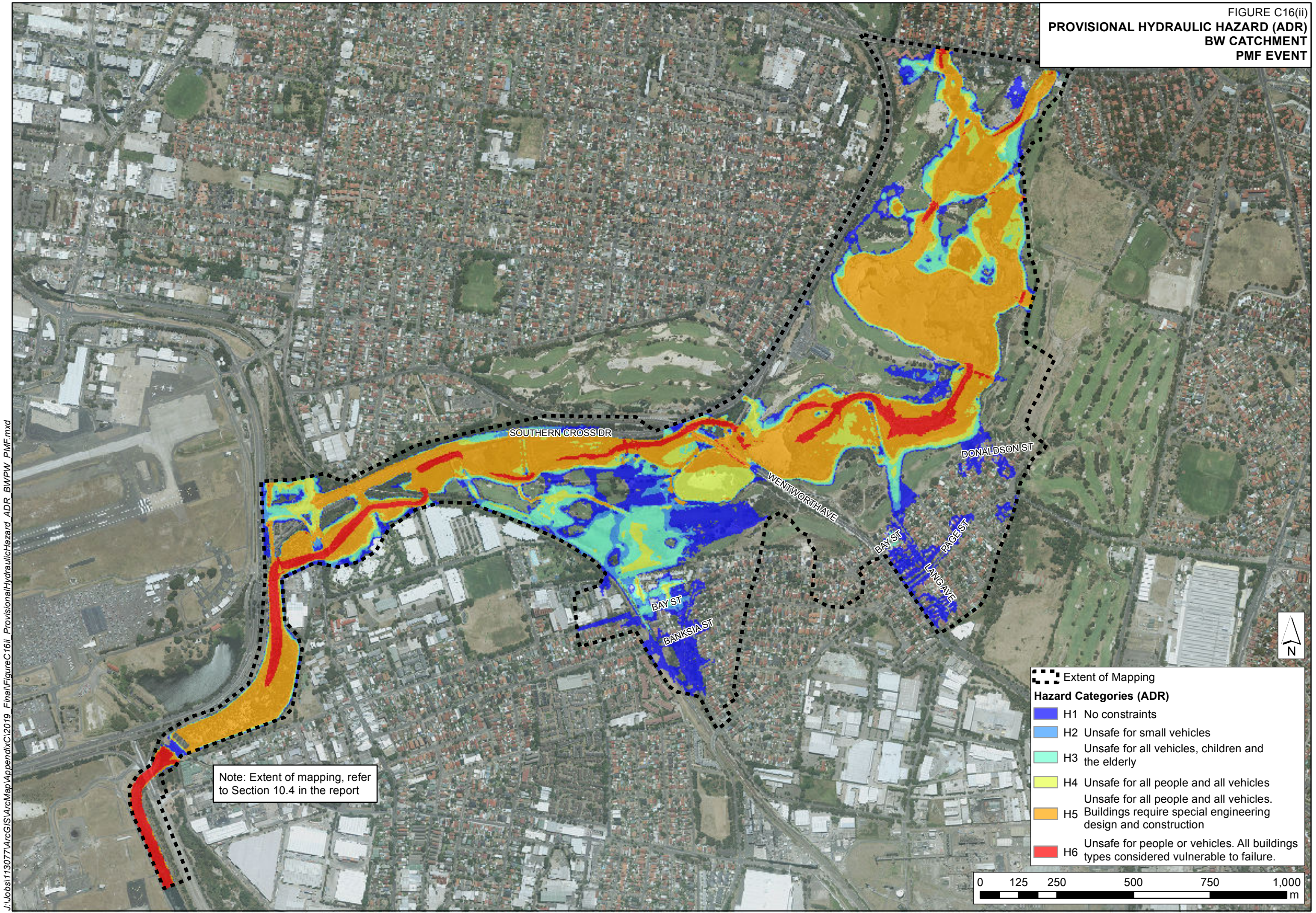
Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping
Hazard Categories (FDM)
Low Hazard
High Hazard

0 125 250 500 750 1,000 m

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FIGURE C16(ii)
PROVISIONAL HYDRAULIC HAZARD (ADR)
BW CATCHMENT
PMF EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Hazard Categories (ADR)

- H1 No constraints
- H2 Unsafe for small vehicles
Unsafe for all vehicles, children and the elderly
- H3 Unsafe for all people and all vehicles
- H4 Unsafe for all people and all vehicles
- H5 Buildings require special engineering design and construction
- H6 Unsafe for people or vehicles. All buildings types considered vulnerable to failure.

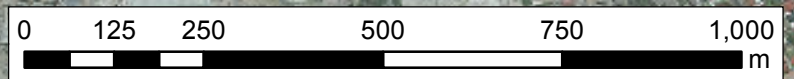
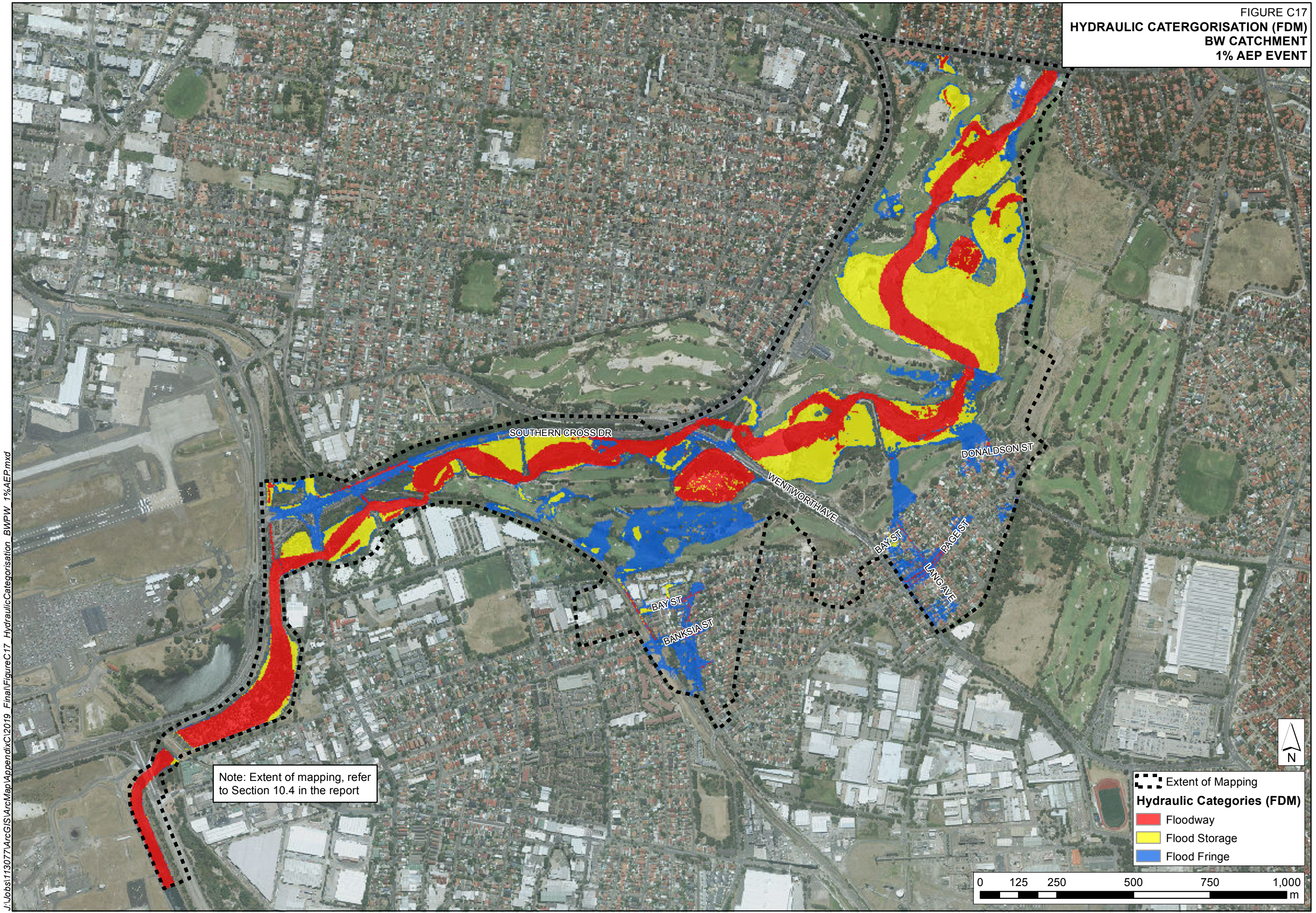


FIGURE C17
HYDRAULIC CATERGORISATION (FDM)
BW CATCHMENT
1% AEP EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

[-] Extent of Mapping

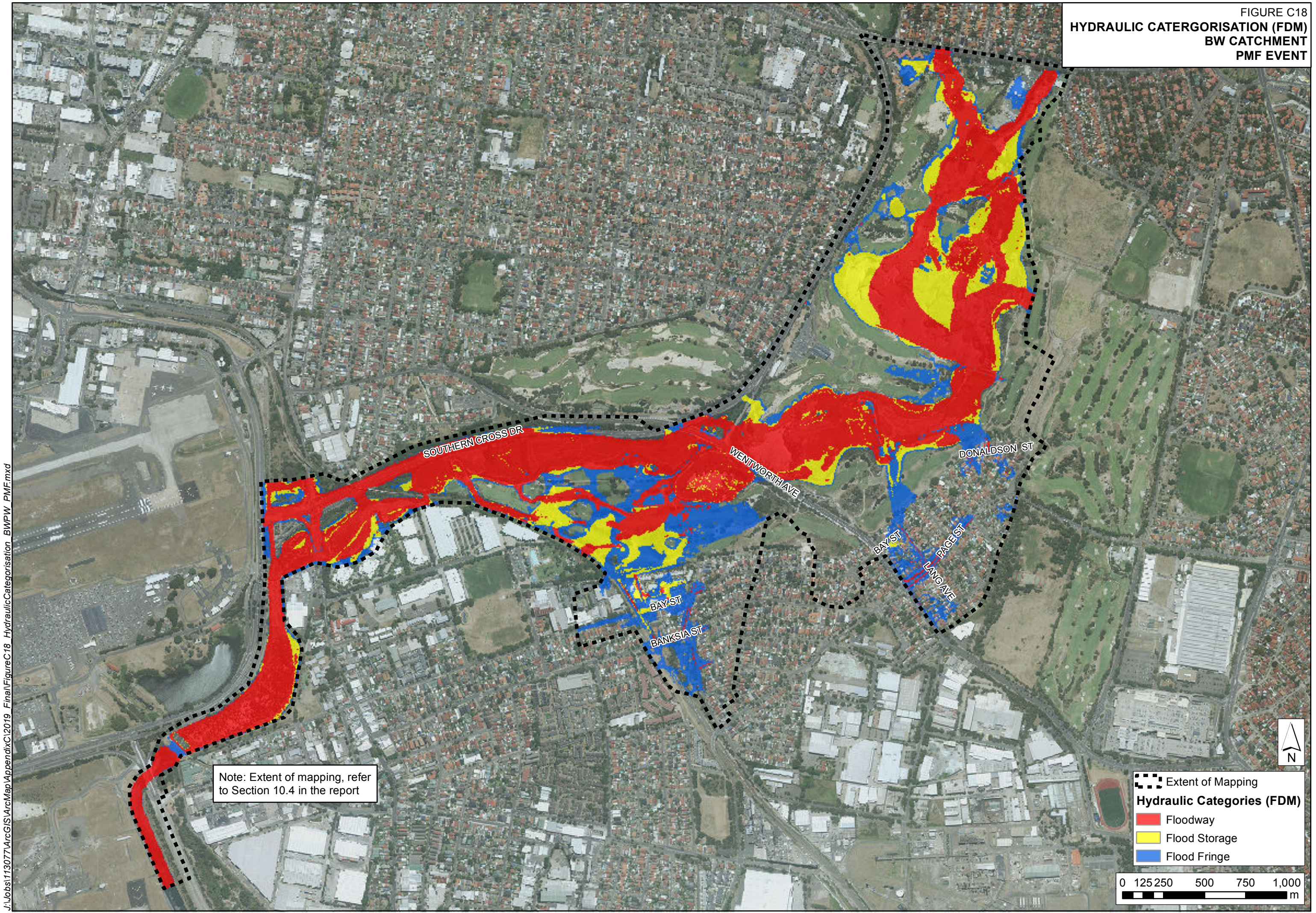
Hydraulic Categories (FDM)

- [Red] Floodway
- [Yellow] Flood Storage
- [Blue] Flood Fringe



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FIGURE C18
HYDRAULIC CATERGORISATION (FDM)
BW CATCHMENT
PMF EVENT



Note: Extent of mapping, refer to Section 10.4 in the report

Extent of Mapping

Hydraulic Categories (FDM)

- Floodway
- Flood Storage
- Flood Fringe



FIGURE C19
 BAY STREET AND BANKSIA STREET
 LOW POINTS

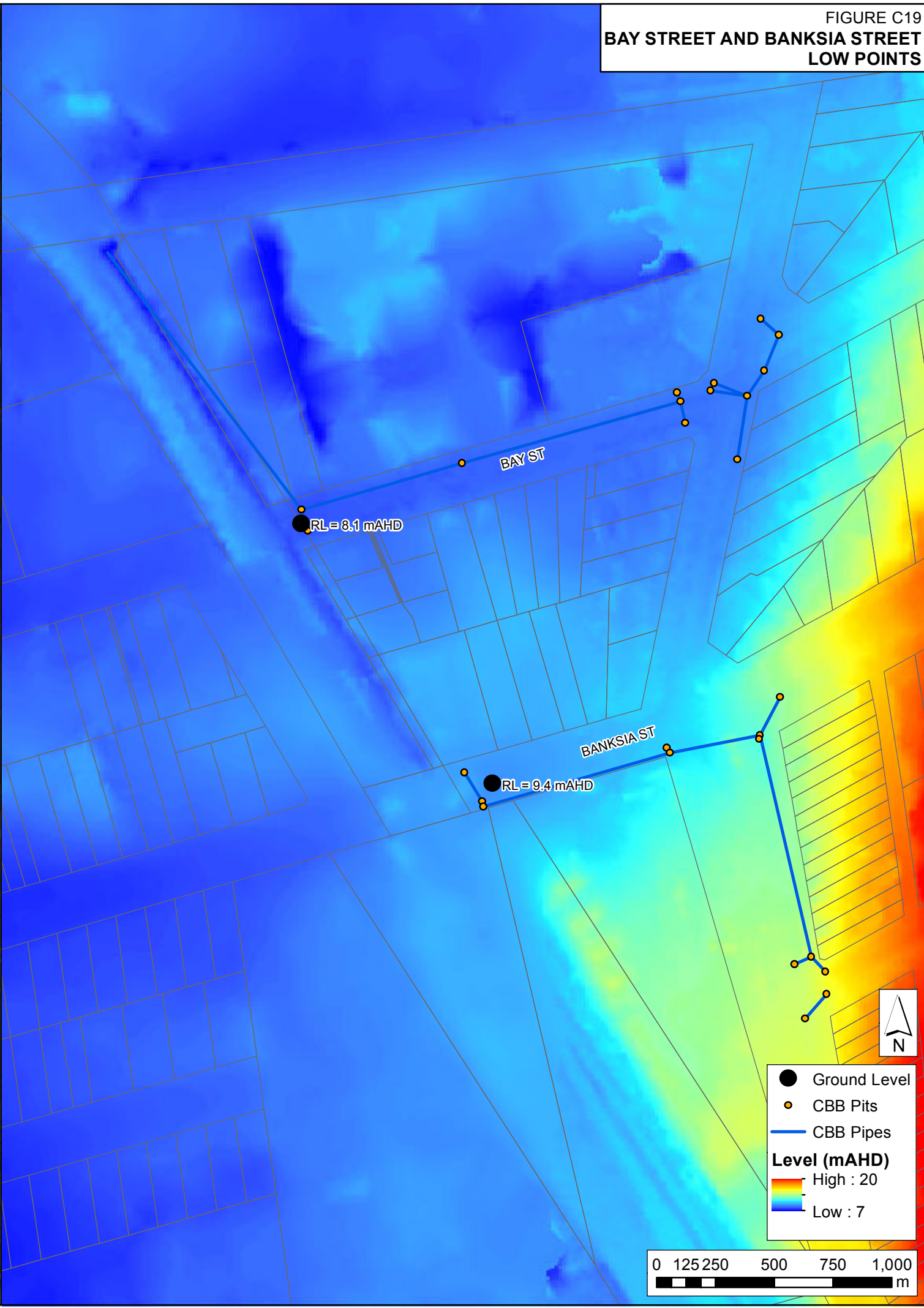


FIGURE C20
BAY STREET
LOW POINT

