

# 9. FIGURES

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FIGURE 1  
STUDY AREA

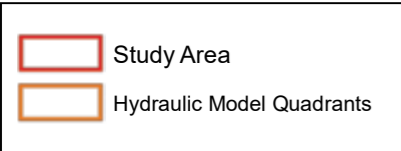
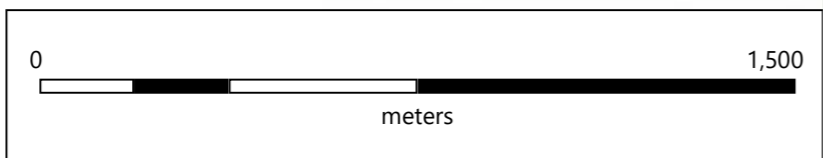




FIGURE 2  
DEM based on 2013 LiDAR

Label	Catchment Name
F	FALL STREET
Z	BERRYS BAY
R	ROCKLANDS ROAD
M	MILSON PARK
H	HAYES STREET
A	ANDERSON PARK
Y	YOUNG STREET
W	WALKER STREET
B	BROOK STREET
G	GORE COVE
C	CHRISTIE STREET
X	MOSMAN BAY
S	SHELL COVE
J	JEFFREYS STREET WHARF
K	KIRRIBILLI
L	LONG BAY
V	VERNON STREET
P	SMOOTHEY PARK

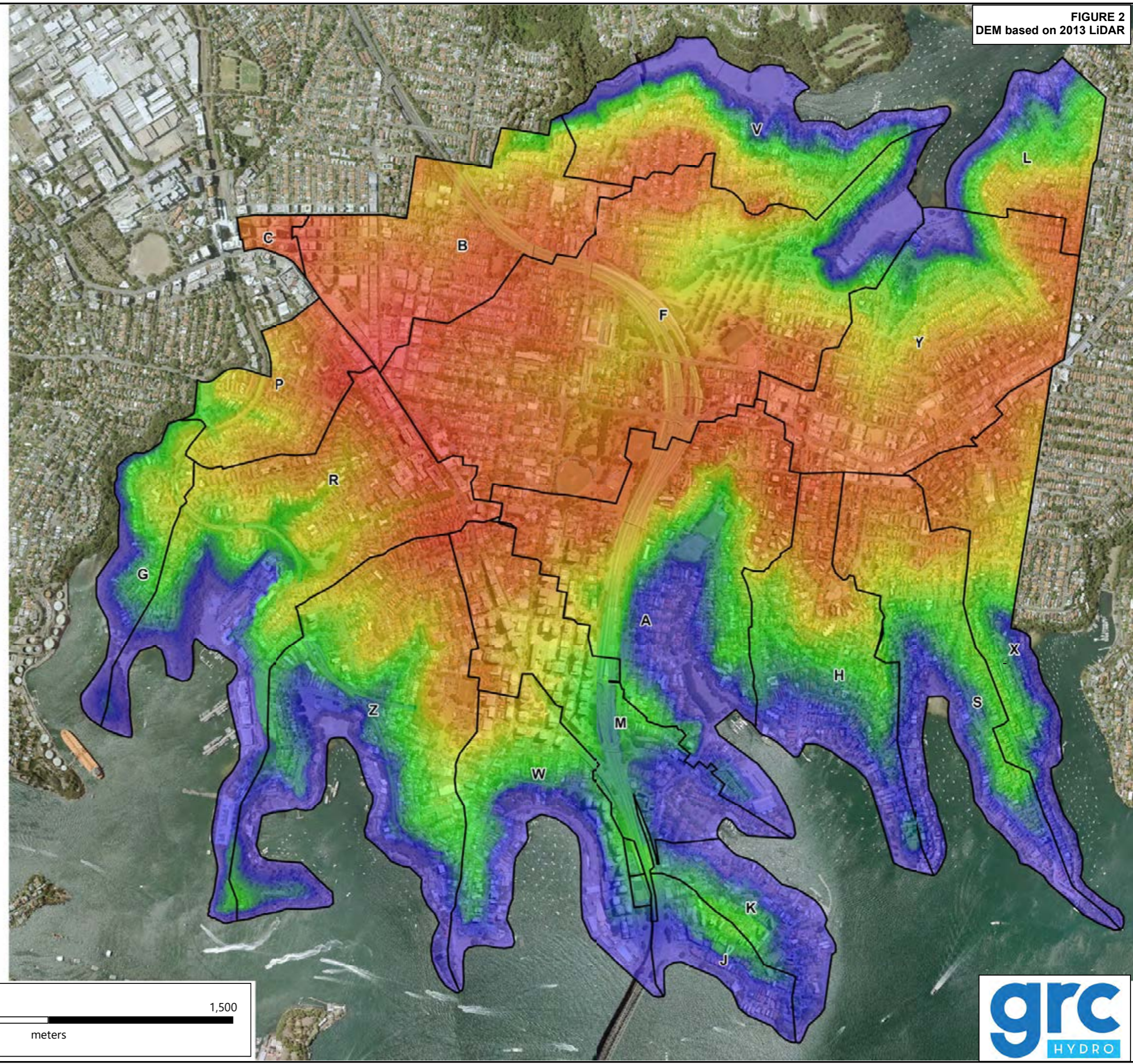
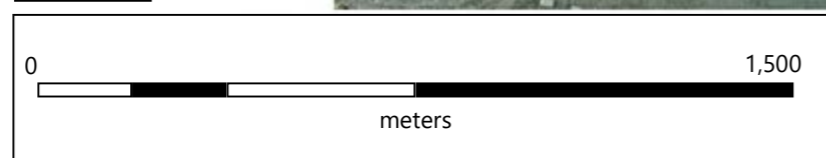
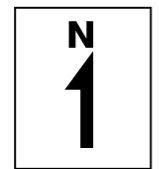
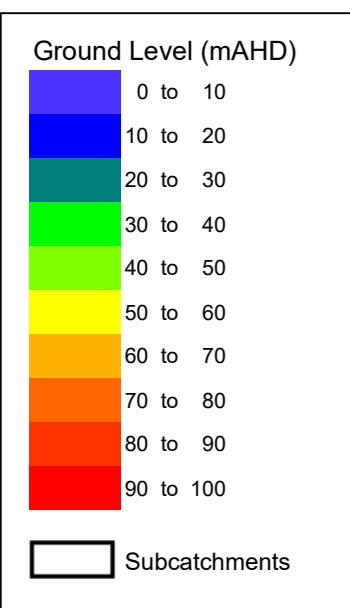
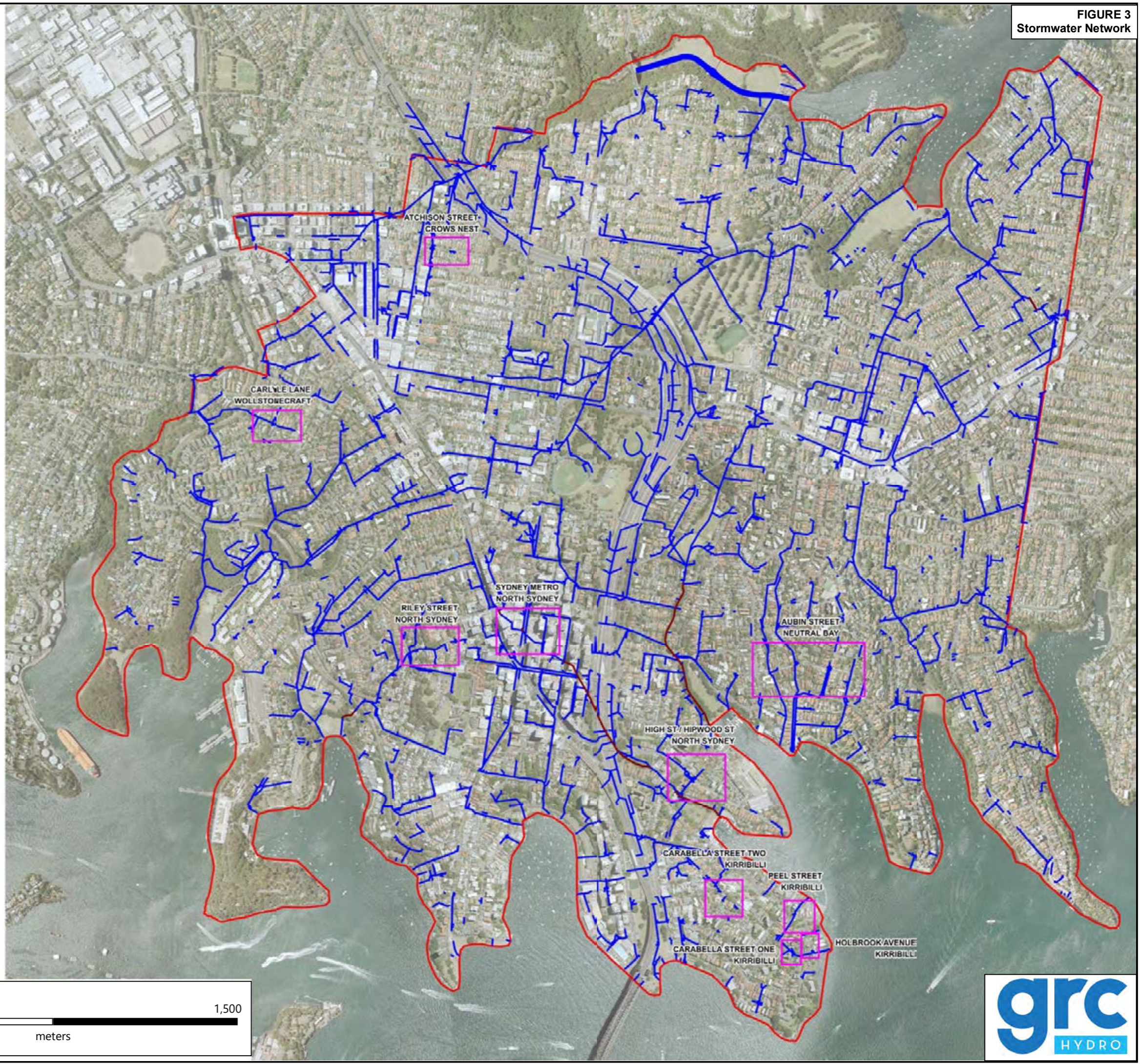
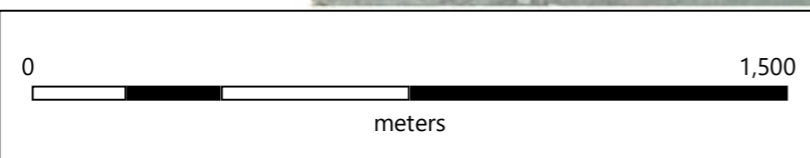




FIGURE 3  
Stormwater Network



- Stormwater Pipes
- Open Channel
- Location of Stormwater Works
- Study Area

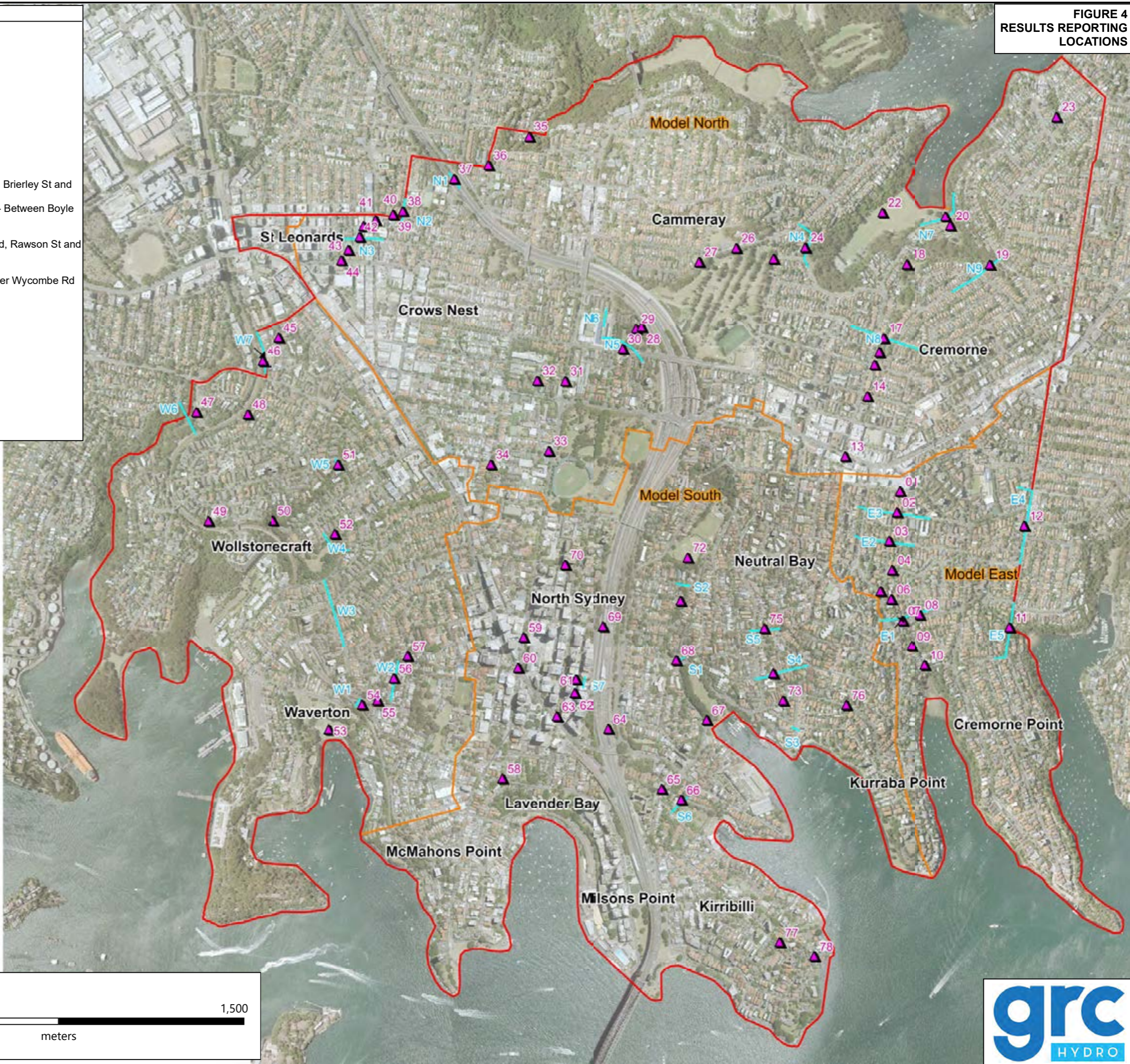




**FIGURE 4  
RESULTS REPORTING  
LOCATIONS**

ID	Location
1	Yeo St
2	Harrison St
3	Bennett St
4	Bertha St
5	Burroway Cnr
6	Powell St
7	Bannerman St
8	Guthrie Ave
9	Honda Rd
10	Bogota Ave
11	Hunts Lookout
12	Spofforth St
13	Military Rd
14	Belgrave St
15	Sutherland St
16	Grasmere La
17	Grasmere Rd
18	Little Young St
19	Brightmore St
20	Brightmore Res
21	Young St
22	Primrose Pk
23	Ryries Pde
24	Grafton St
25	Park Ave
26	Cammeray Rd
27	Warringa Rd
28	Cammeray Ave
29	Aznac Pk
30	Ernest St
31	Miller St
32	Rodborough Ave
33	Carlow St
34	West St
35	Hamilton La
36	Palmer St
37	Brooke St
38	Wheatleigh St
39	Chandos St
40	Willoughby Rd
41	Hume La
42	Atchison St
43	Albany La
44	Albany St
45	Christie St
46	Lithgow St
47	Russell St
48	Carlyle La
49	Belmont Av
50	Newlands La
51	Newlands St
52	Hazelbank Rd
53	Waverton Oval
54	Woolcott St
55	Euroka St
56	Ancrum St
57	Bank St
58	Lavender St
59	Miller St
60	Pacific Hwy / Miller St Intersection
61	Mount St
62	Little Walker St
63	Pacific Hwy / Walker St Intersection
64	Warringah Freeway / Tunnel Entrance
65	Clark Rd
66	Hipwood St
67	Anderson Park Outlet
68	Clark Rd / Kurraba Rd Intersection
69	Warringah Freeway
70	McLaren St
71	Rawson St Channel
72	Forsyth Park
73	Kurraba Rd
74	Aubin St
75	Philips St
76	Kurraba Rd / Wycombe Rd Intersection
77	Carabella St / Peel St Intersection
78	Holbrook Ave

ID	Location
N1	Brooke St
N2	Wheatleigh St
N3	Atchison St
N4	Grafton St
N5	Ernest St
N6	Anzac Ave
N7	Young St
N8	Grasmere Rd
N9	Brightmore St
E1	Bannerman St
E2	Bennet St
E3	Harrison St
E4	Spofforth St - Between Brierley St and Florence St
E5	Lower Spofforth Walk - Between Boyle St and Hodgson Ave
S1	Intersection of Clark Rd, Rawson St and Kurraba Rd
S2	Eaton St
S3	Cnr Hayes St and Lower Wycombe Rd
S4	Aubin St
S5	Phillips St
S6	Hipwood St
S7	Mount St
W1	Woolcott St
W2	Ancrum St
W3	Carr St
W4	Brennan Park
W5	Newlands St
W6	Russel St
W7	Lithgow St



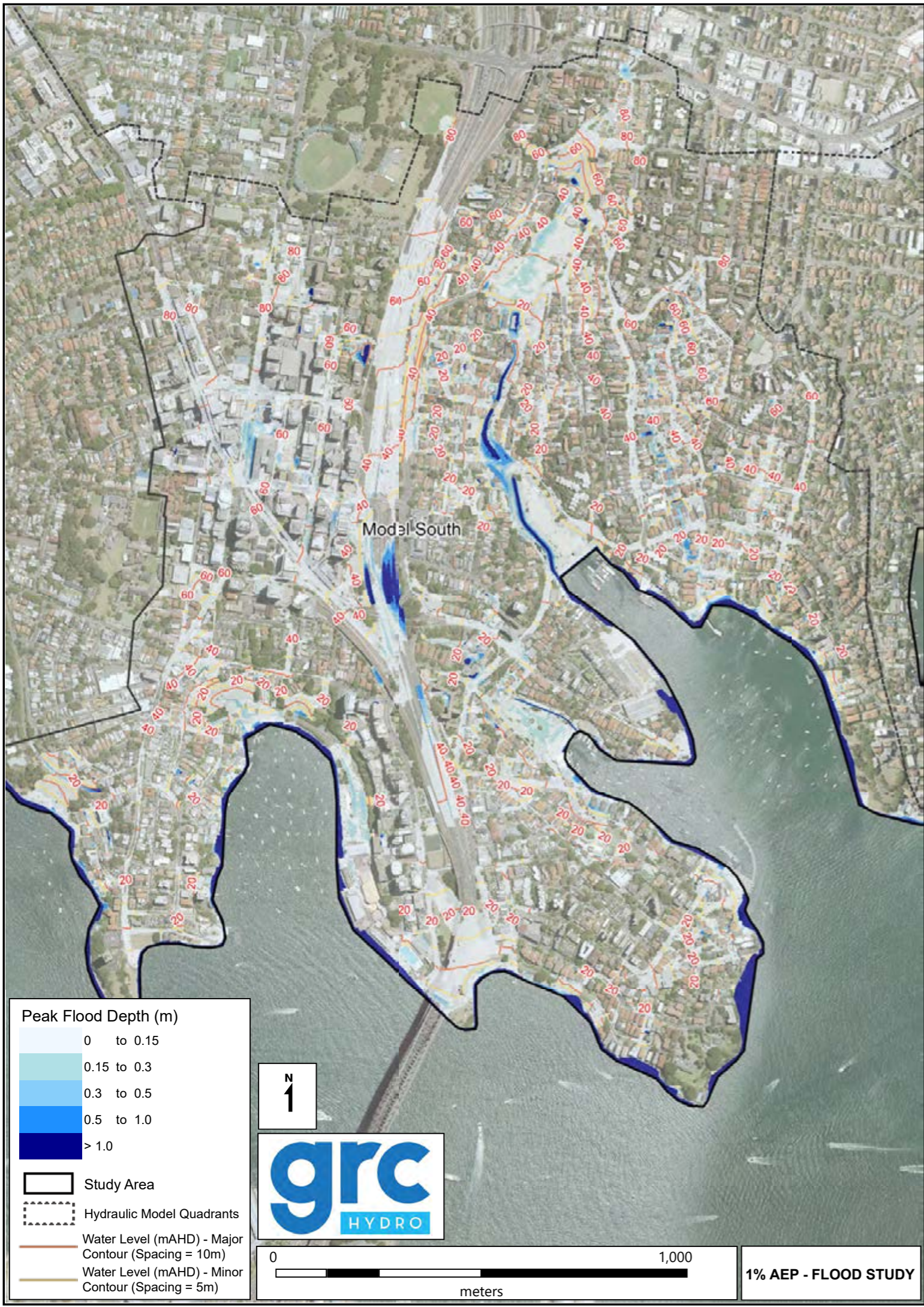
- flow reporting locations
- Study Area
- Hydraulic Model Quadrants
- Comparison Points

0 1,500  
meters



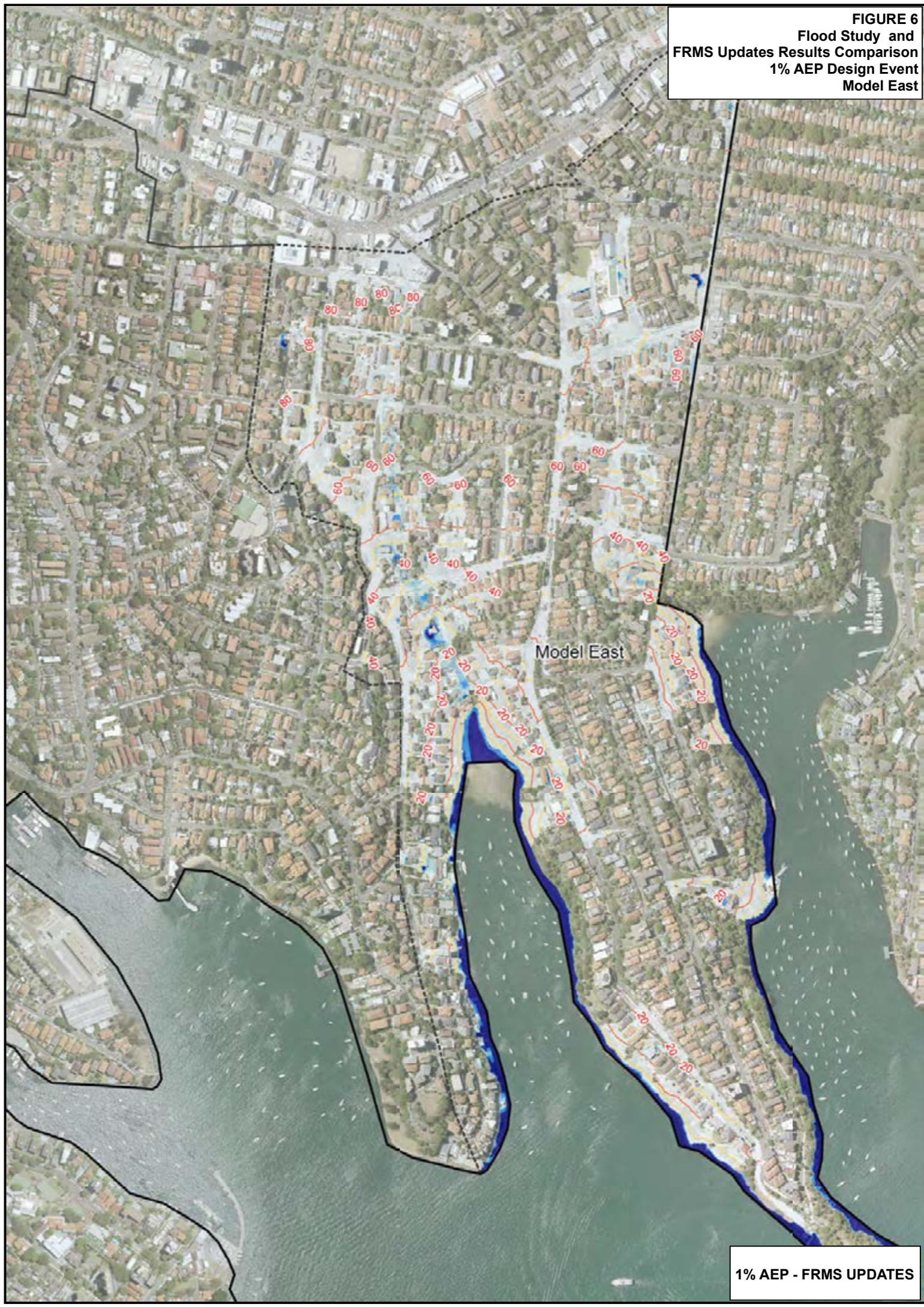
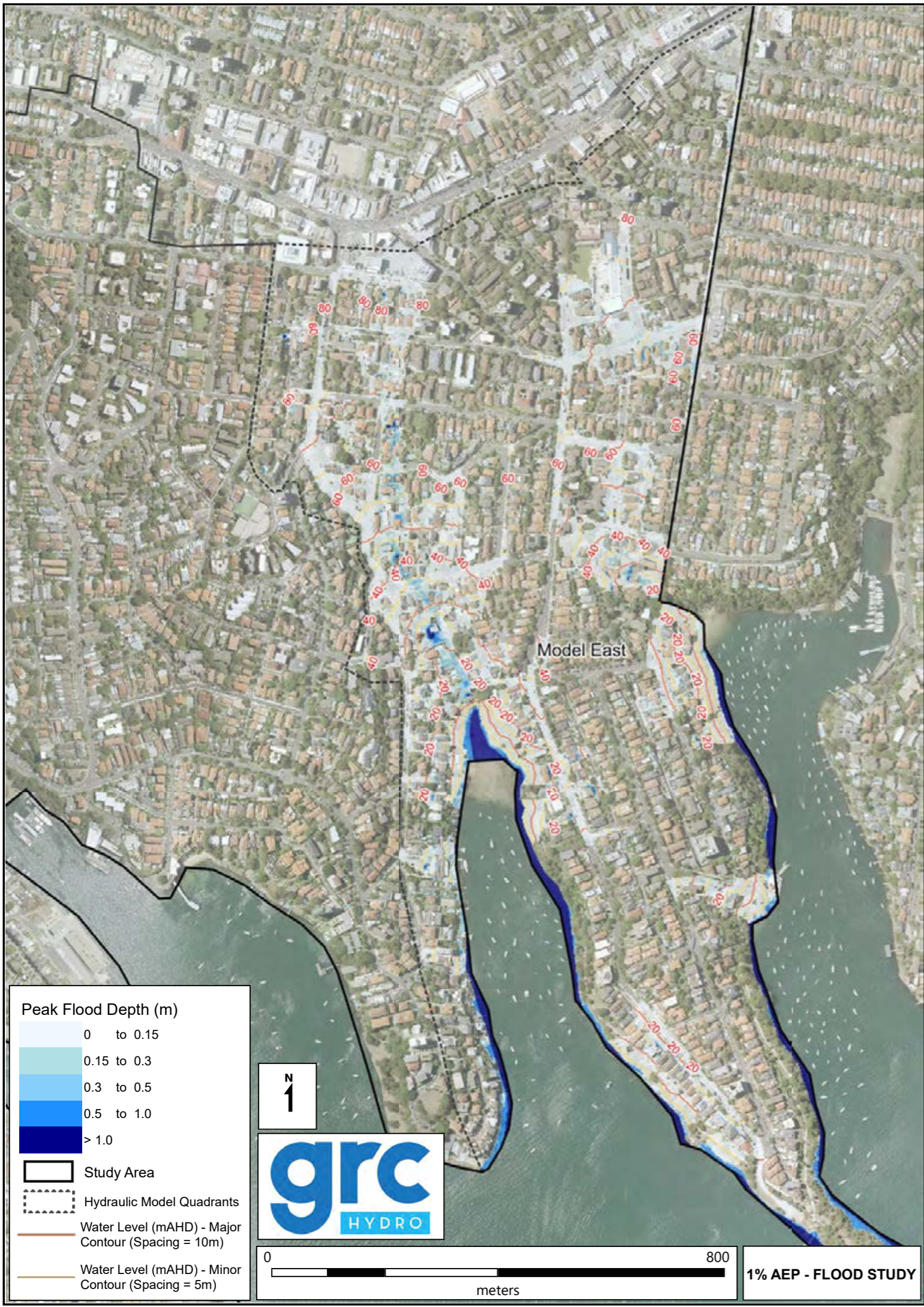


**FIGURE 5**  
**Flood Study and**  
**FRMS Updates Results Comparison**  
**1% AEP Design Event**  
**Model South**



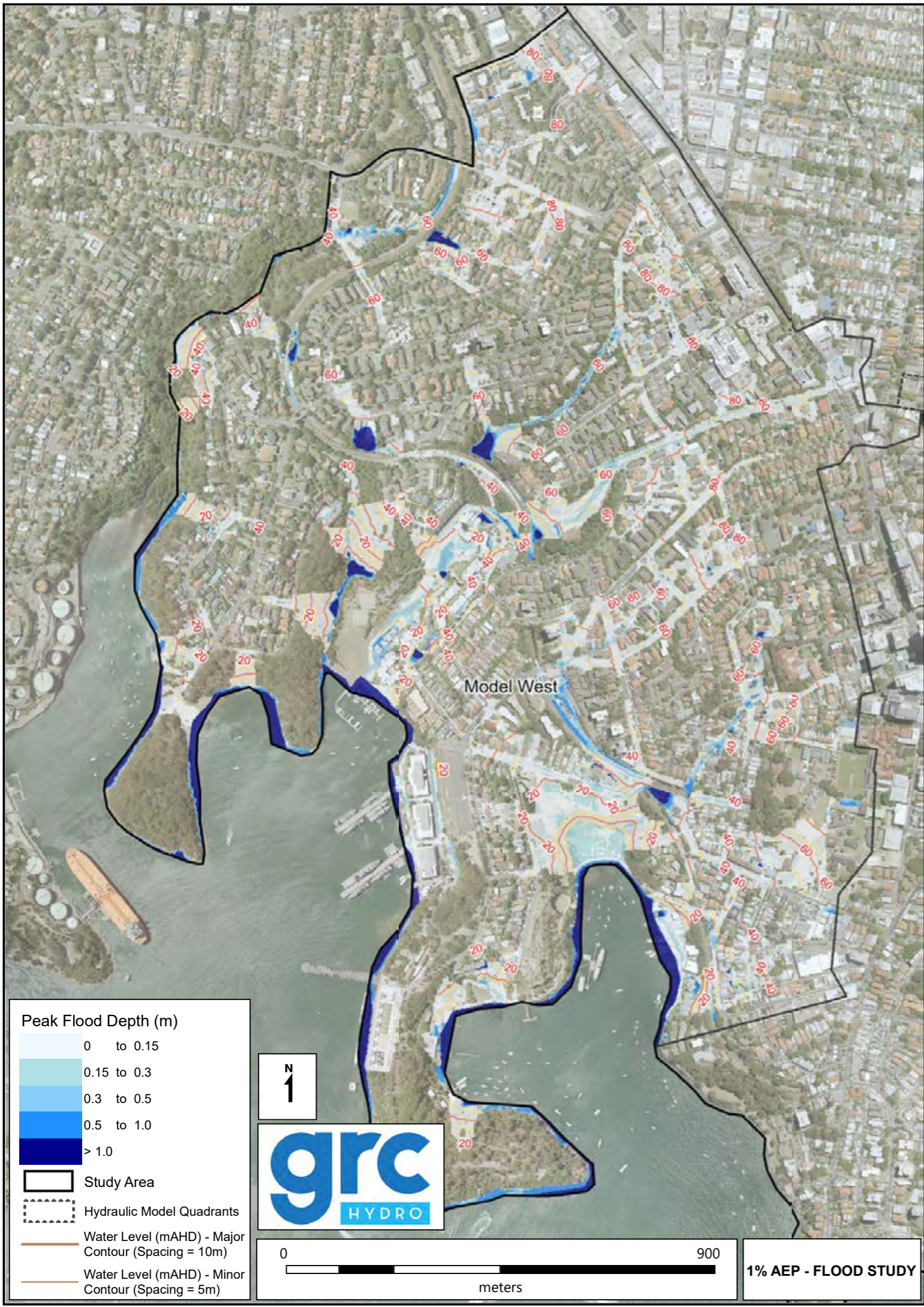


**FIGURE 6**  
**Flood Study and**  
**FRMS Updates Results Comparison**  
**1% AEP Design Event**  
**Model East**



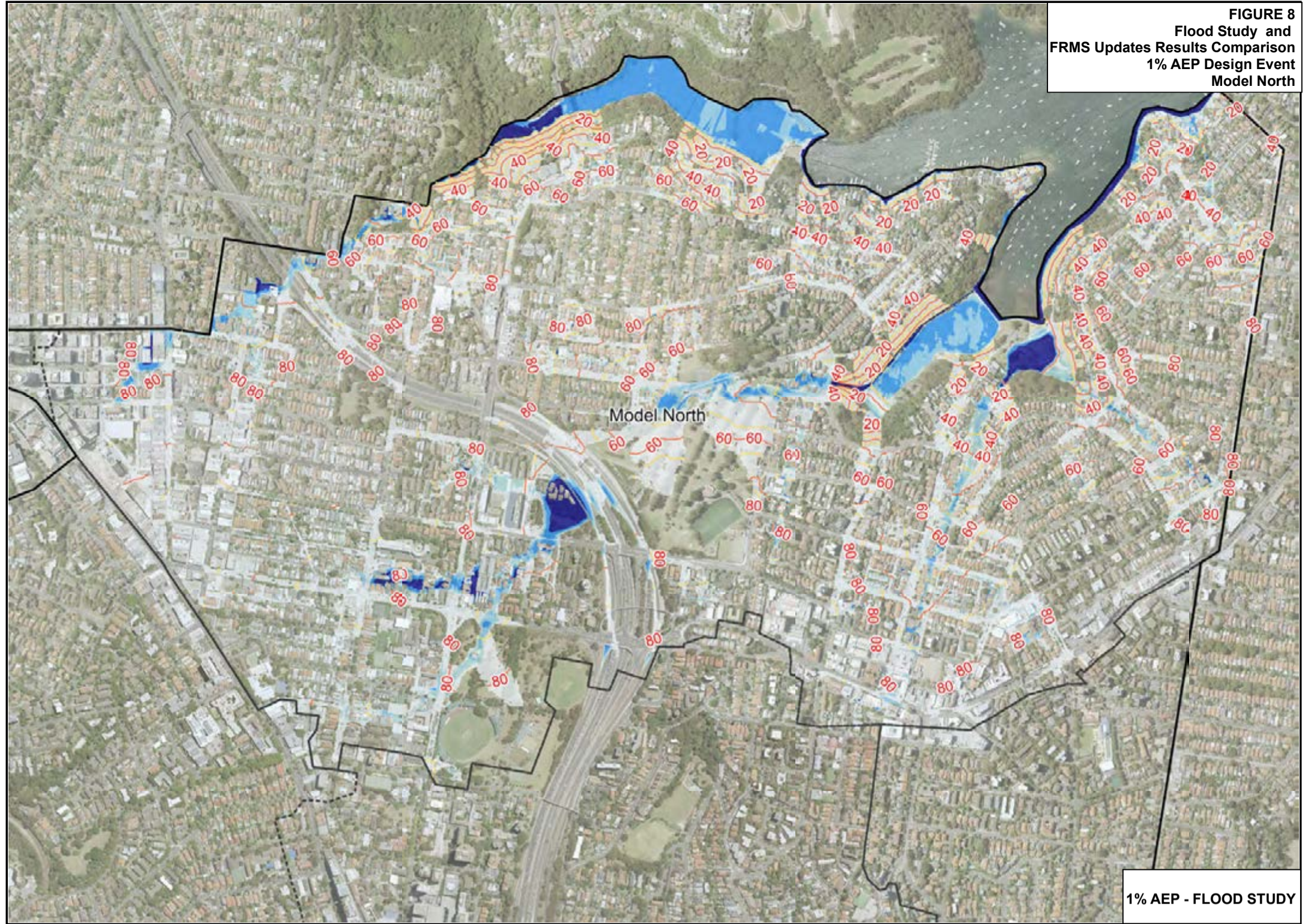


**FIGURE 7**  
**Flood Study and**  
**FRMS Updates Results Comparison**  
**1% AEP Design Event**  
**Model West**

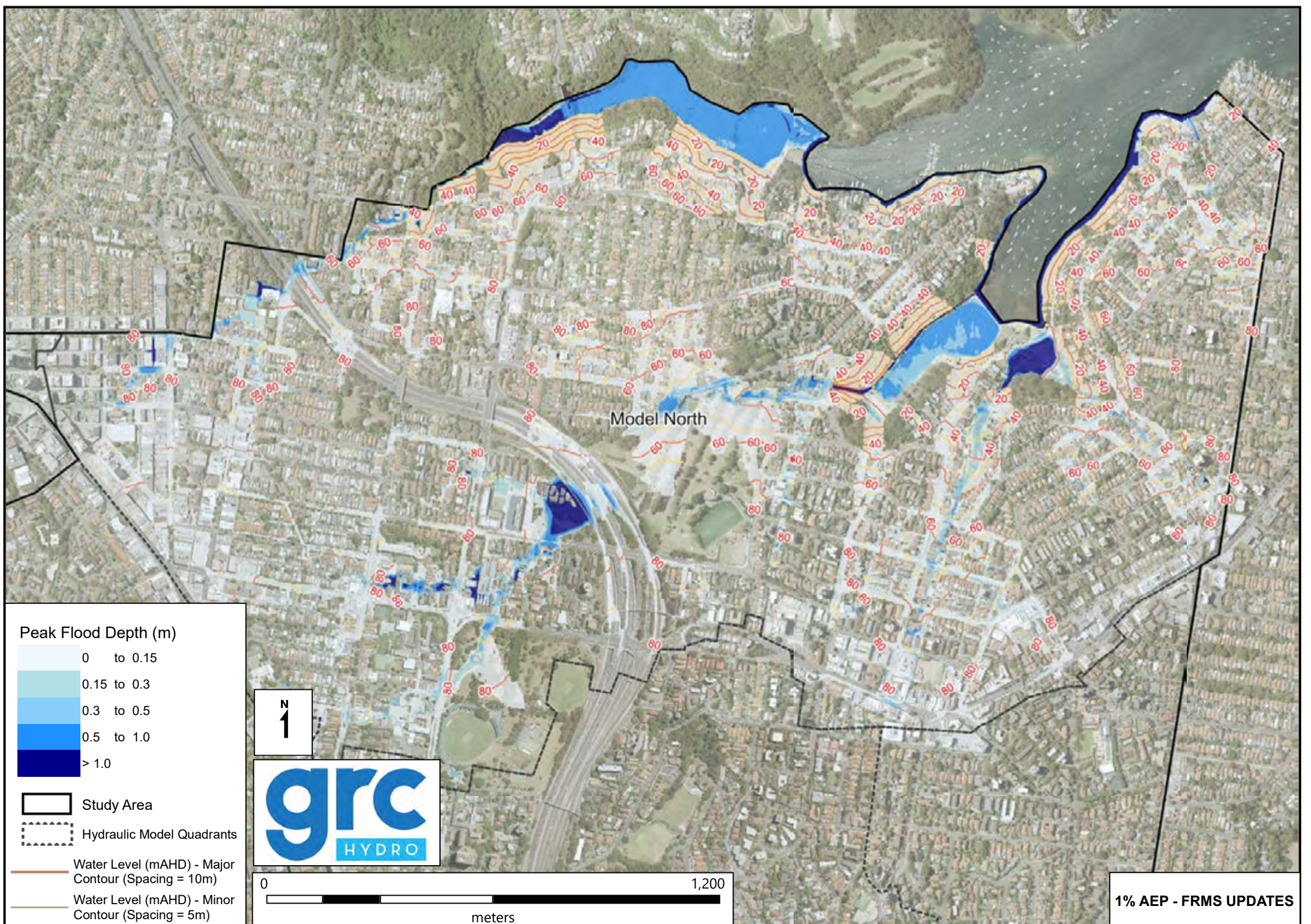




**FIGURE 8**  
**Flood Study and**  
**FRMS Updates Results Comparison**  
**1% AEP Design Event**  
**Model North**



**1% AEP - FLOOD STUDY**



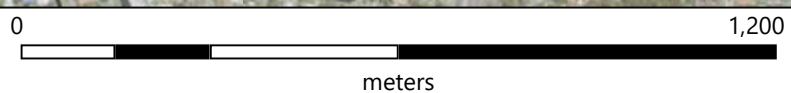
**1% AEP - FRMS UPDATES**

**Peak Flood Depth (m)**

- 0 to 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1.0
- > 1.0

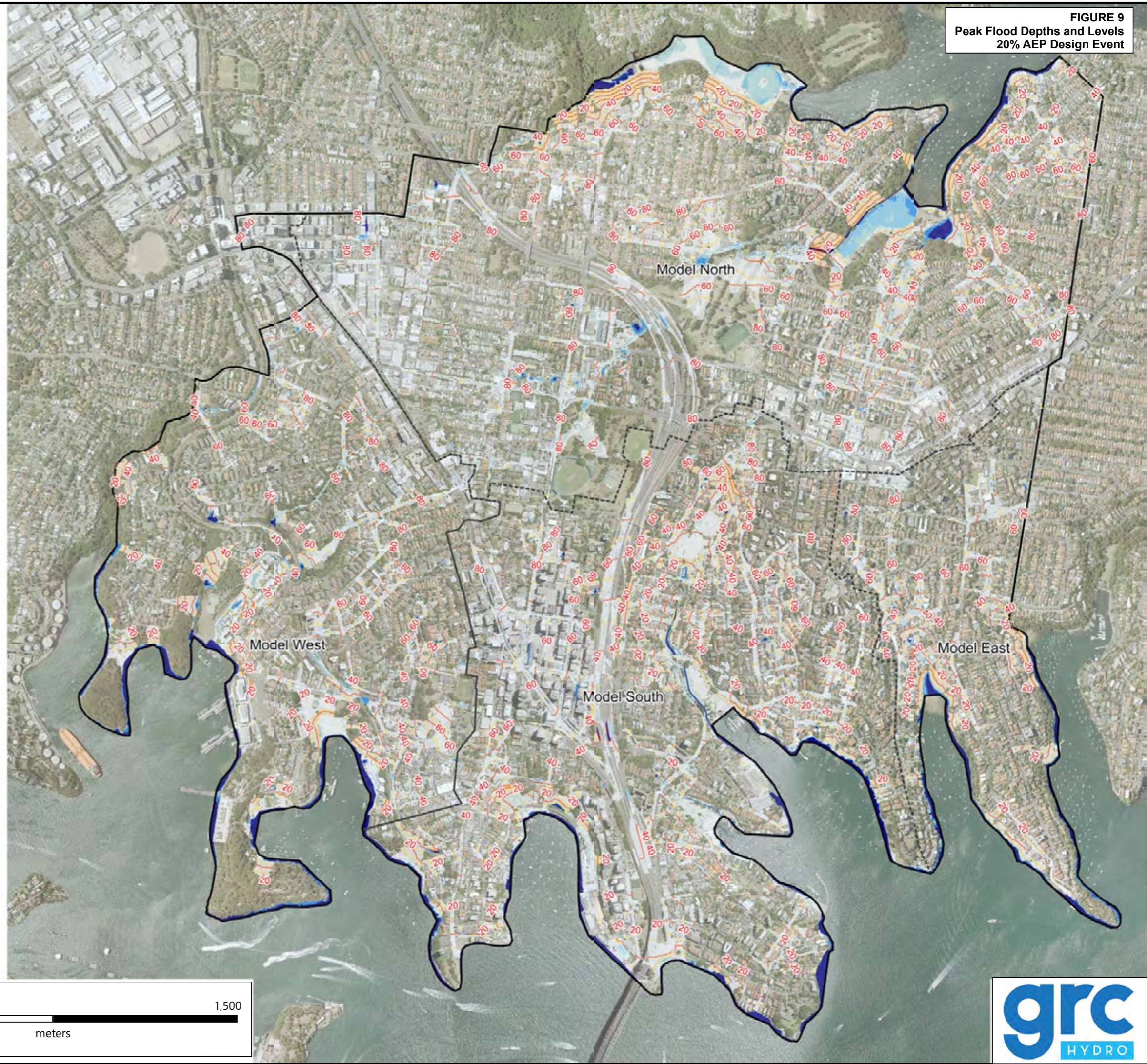
- Study Area
- Hydraulic Model Quadrants

- Water Level (mAHd) - Major Contour (Spacing = 10m)
- Water Level (mAHd) - Minor Contour (Spacing = 5m)





**FIGURE 9**  
**Peak Flood Depths and Levels**  
**20% AEP Design Event**

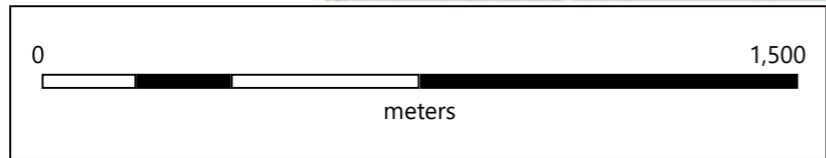
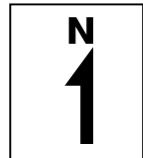


— Water Level (mAHd) - Major Contour (Spacing = 10m)  
— Water Level (mAHd) - Minor Contour (Spacing = 5m)

**Peak Flood Depth (m)**

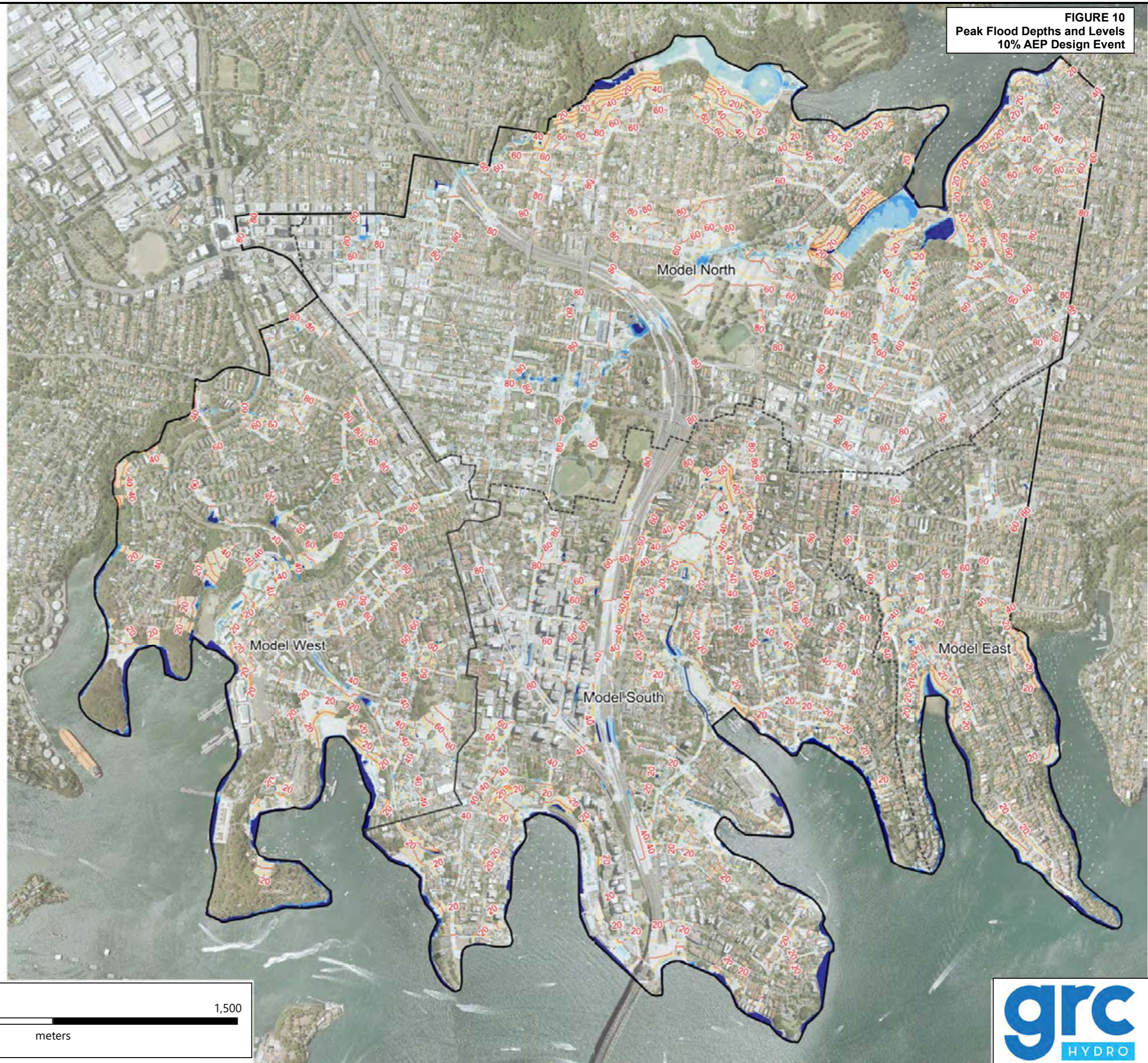
0 to 0.15
0.15 to 0.3
0.3 to 0.5
0.5 to 1.0
> 1.0

Study Area  
 Hydraulic Model Quadrants



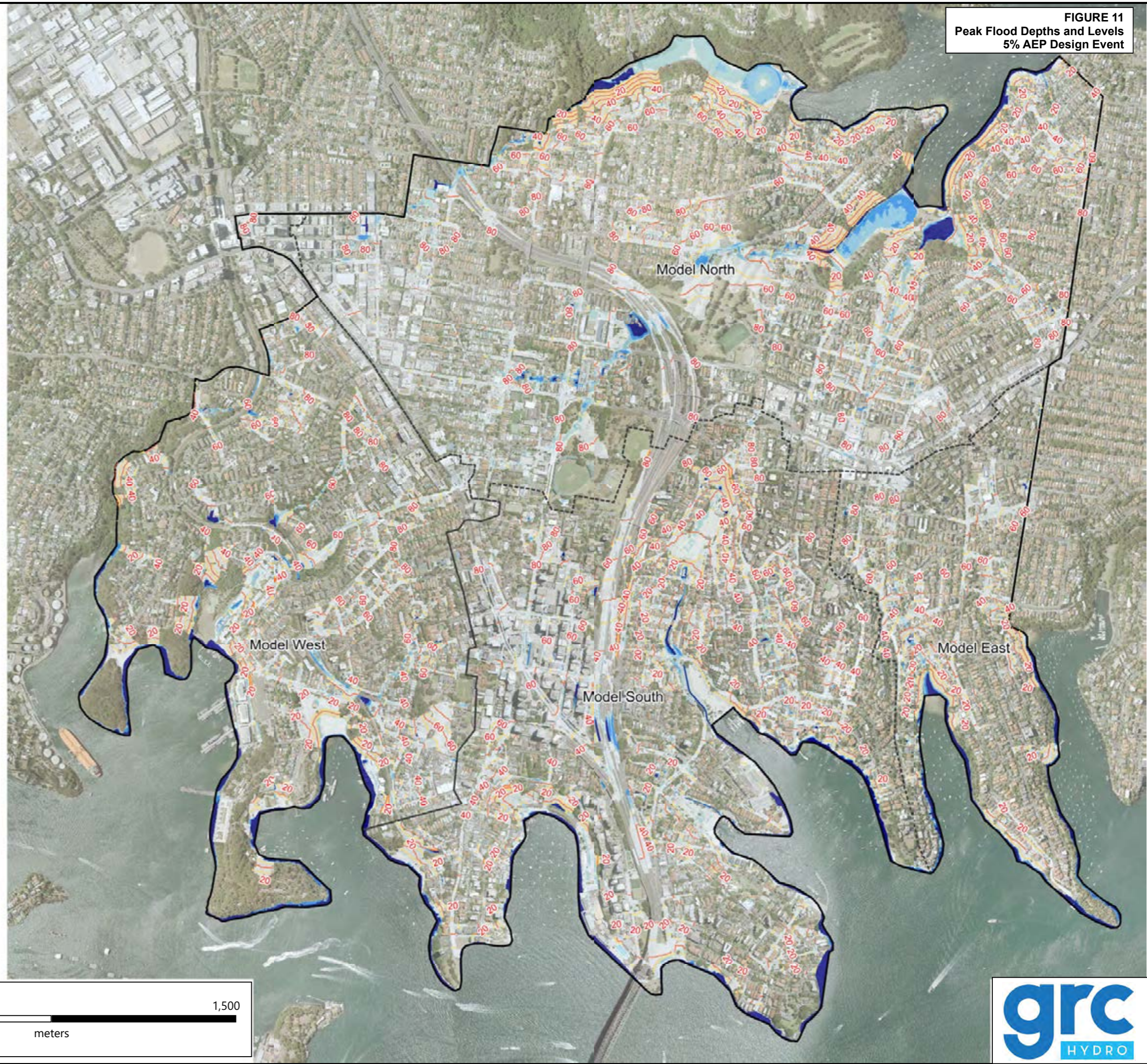


**FIGURE 10**  
Peak Flood Depths and Levels  
10% AEP Design Event





**FIGURE 11**  
**Peak Flood Depths and Levels**  
**5% AEP Design Event**

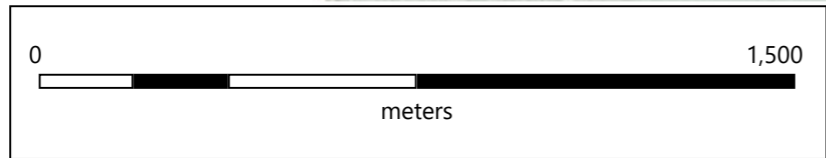
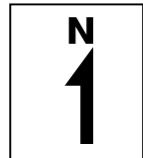


— Water Level (mAHD) - Major Contour (Spacing = 10m)  
— Water Level (mAHD) - Minor Contour (Spacing = 5m)

**Peak Flood Depth (m)**

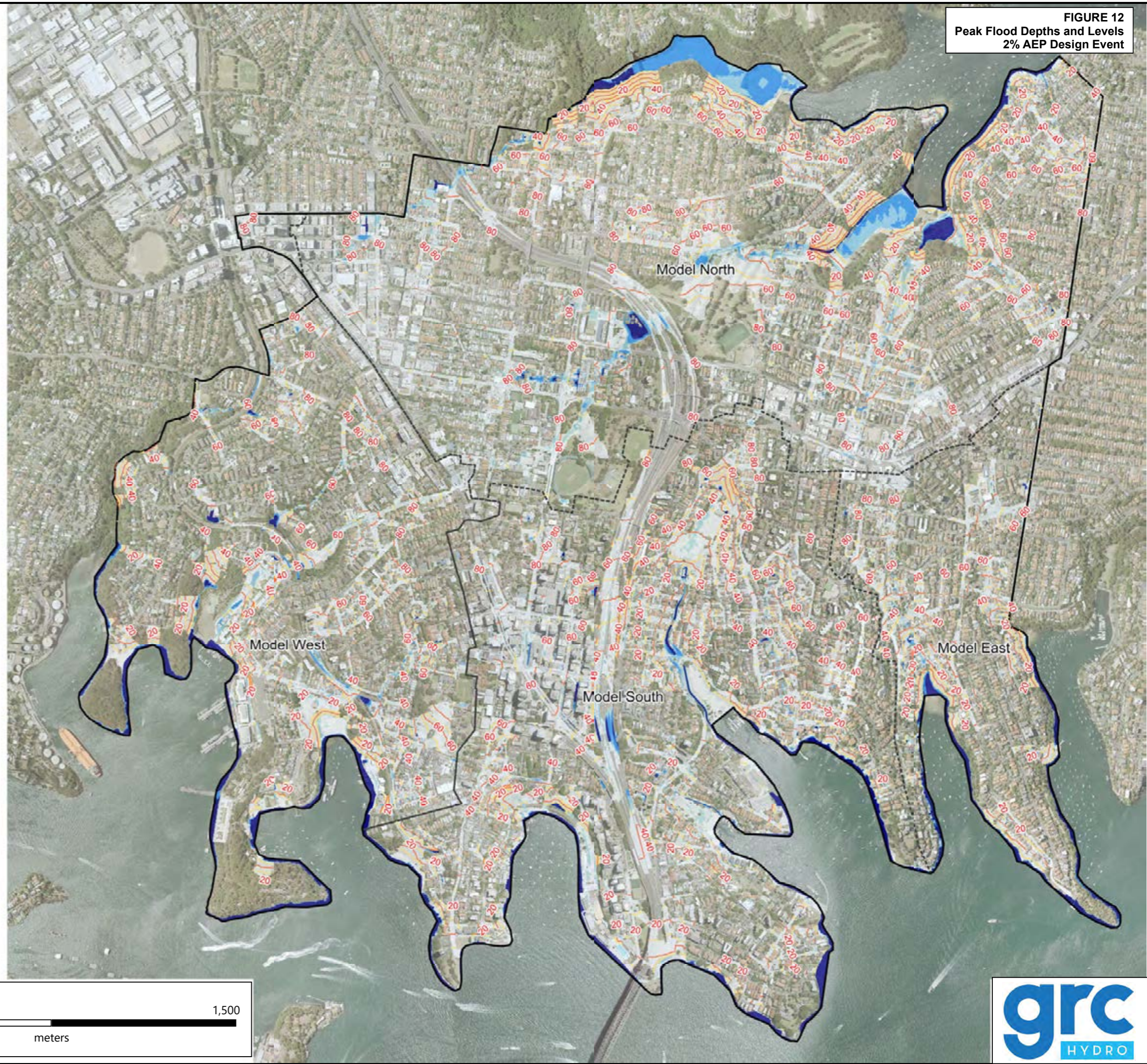
0 to 0.15
0.15 to 0.3
0.3 to 0.5
0.5 to 1.0
> 1.0

Study Area  
 Hydraulic Model Quadrants





**FIGURE 12**  
**Peak Flood Depths and Levels**  
**2% AEP Design Event**



Water Level (mAHD) - Major Contour (Spacing = 10m)

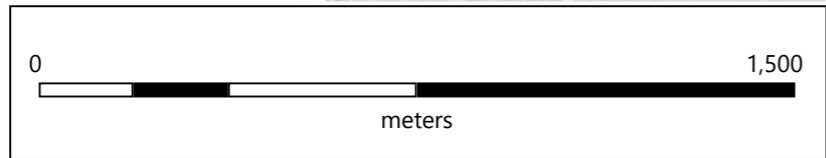
Water Level (mAHD) - Minor Contour (Spacing = 5m)

Peak Flood Depth (m)

0 to 0.15
0.15 to 0.3
0.3 to 0.5
0.5 to 1.0
> 1.0

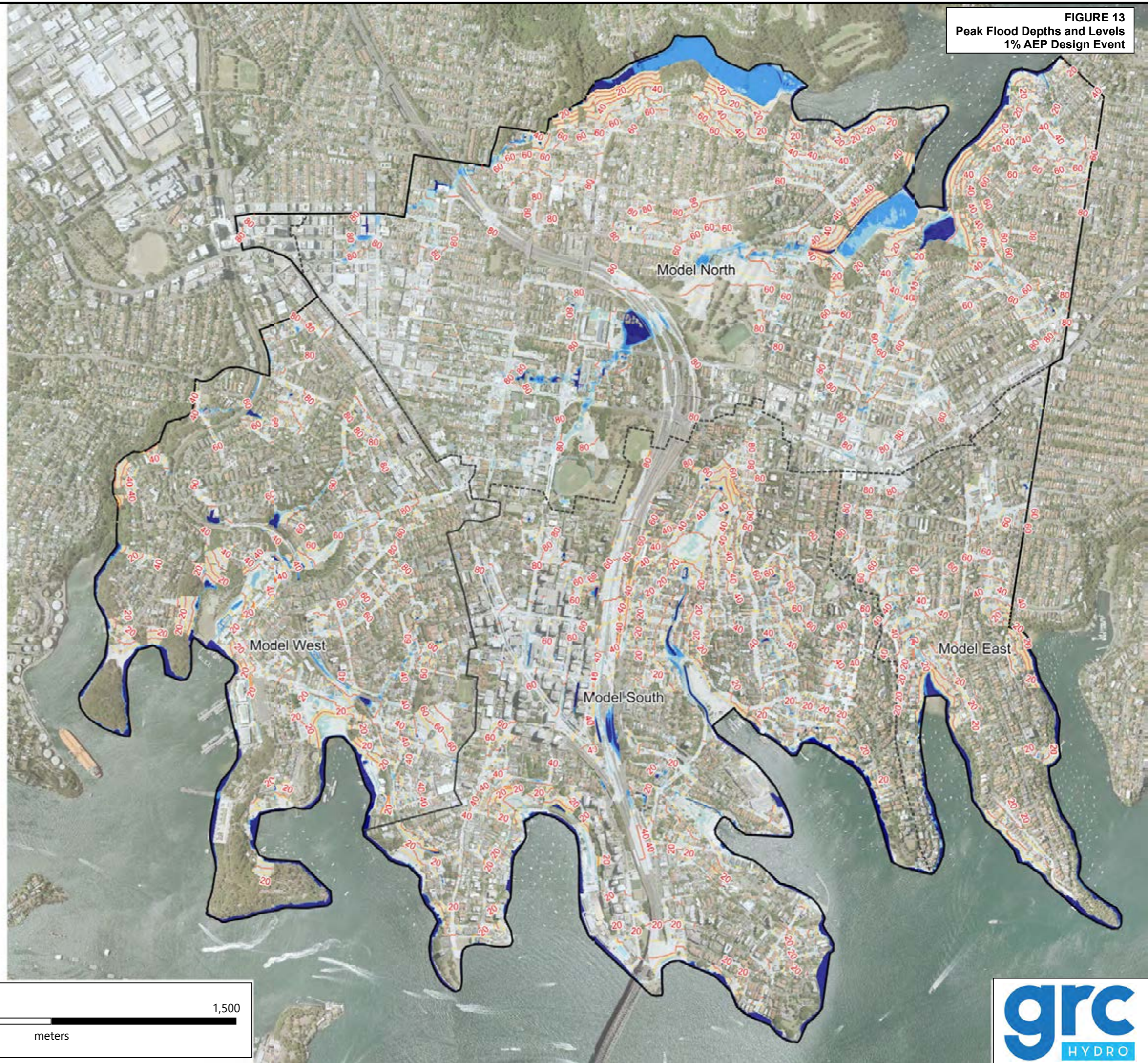
Study Area

Hydraulic Model Quadrants





**FIGURE 13**  
Peak Flood Depths and Levels  
1% AEP Design Event



Water Level (mAHD) - Major Contour (Spacing = 10m)

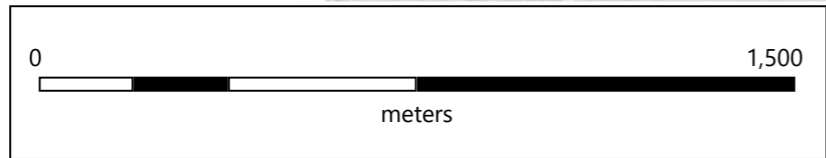
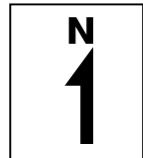
Water Level (mAHD) - Minor Contour (Spacing = 5m)

Peak Flood Depth (m)

Lightest Blue	0 to 0.15
Light Blue	0.15 to 0.3
Medium Blue	0.3 to 0.5
Dark Blue	0.5 to 1.0
Very Dark Blue	> 1.0

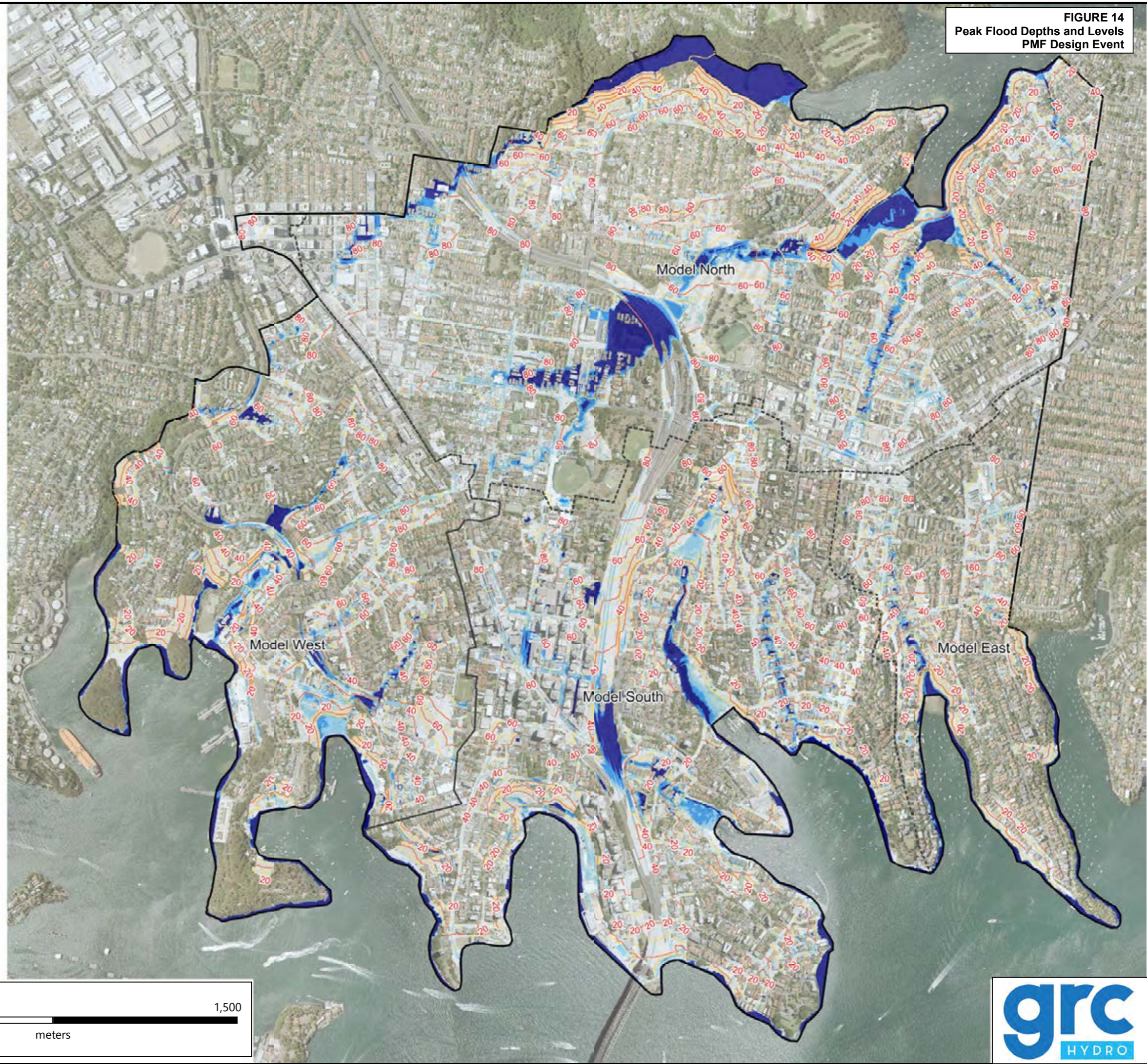
Study Area

Hydraulic Model Quadrants





**FIGURE 14**  
**Peak Flood Depths and Levels**  
**PMF Design Event**



Water Level (mAHd) - Major Contour (Spacing = 10m)

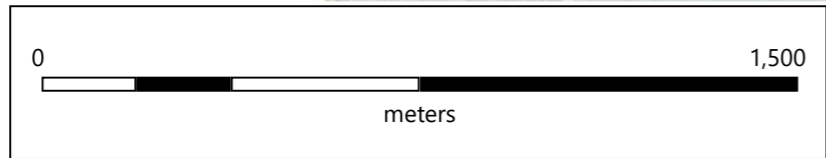
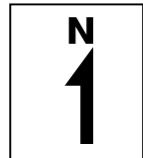
Water Level (mAHd) - Minor Contour (Spacing = 5m)

Peak Flood Depth (m)

Light Blue	0 to 0.15
Medium Blue	0.15 to 0.3
Dark Blue	0.3 to 0.5
Very Dark Blue	0.5 to 1.0
Black	> 1.0

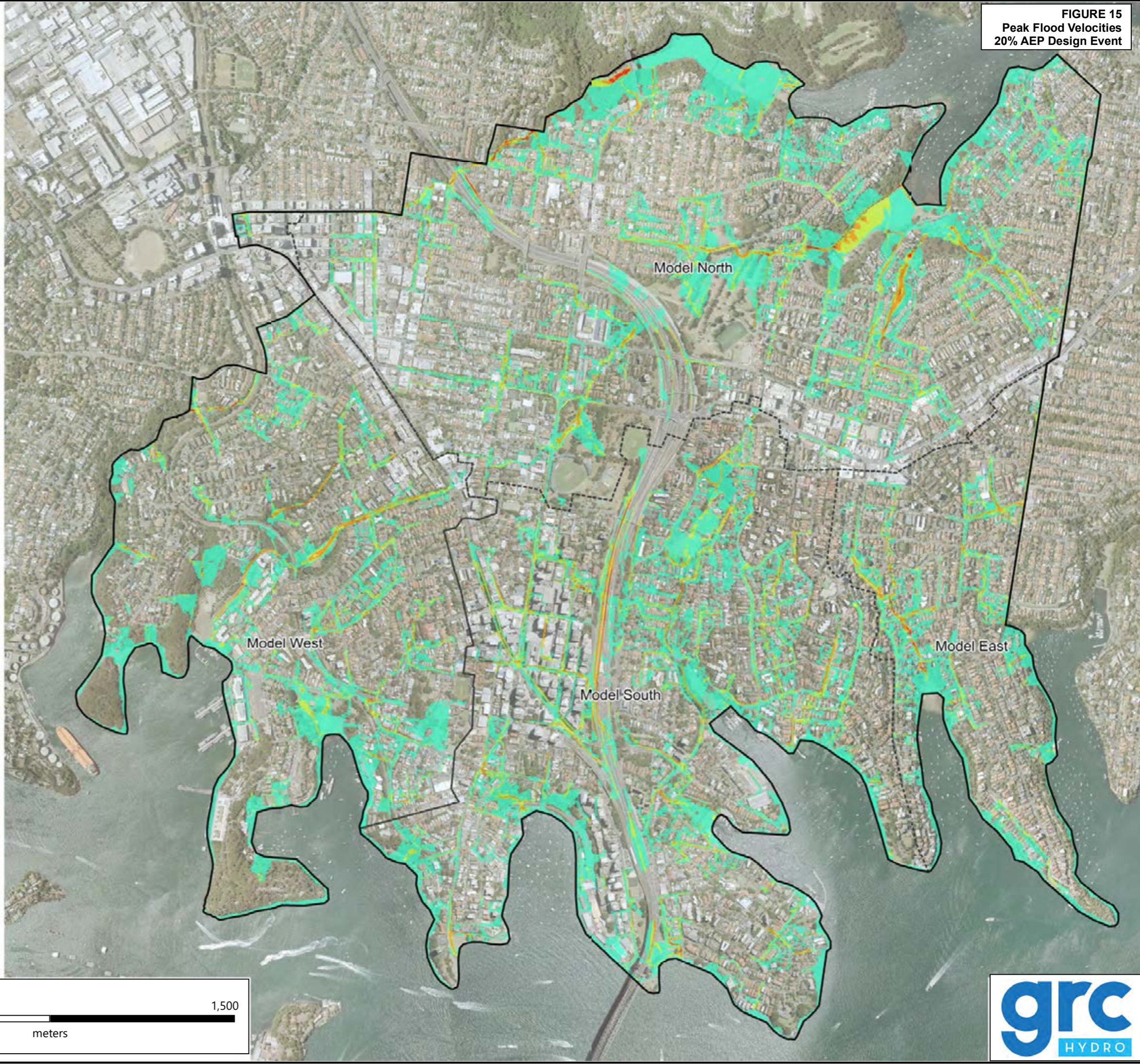
Study Area

Hydraulic Model Quadrants





**FIGURE 15**  
Peak Flood Velocities  
20% AEP Design Event



Peak Velocity (m/s)

0 to 0.5	Light Blue
0.5 to 1.0	Yellow-Green
1.0 to 2.0	Orange
> 2.0	Red

Study Area (solid black line)  
Hydraulic Model Quadrants (dashed black line)

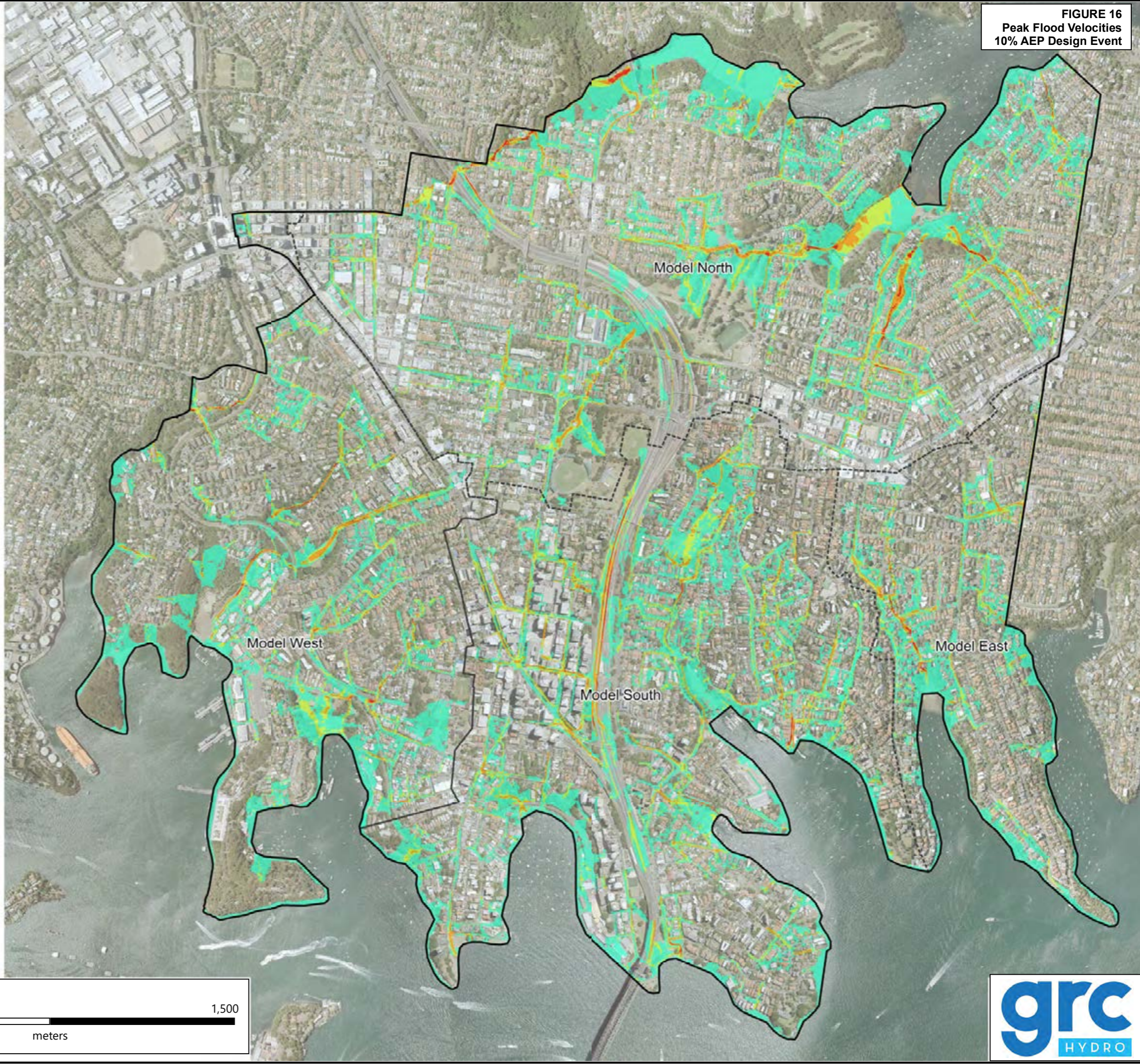
N

0 1,500  
meters





**FIGURE 16**  
Peak Flood Velocities  
10% AEP Design Event



**Peak Velocity (m/s)**

Cyan	0 to 0.5
Yellow	0.5 to 1.0
Orange	1.0 to 2.0
Red	> 2.0

Study Area (solid line)  
Hydraulic Model Quadrants (dashed line)

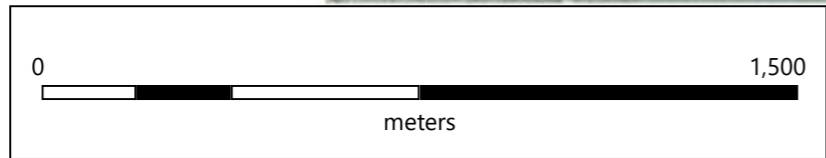
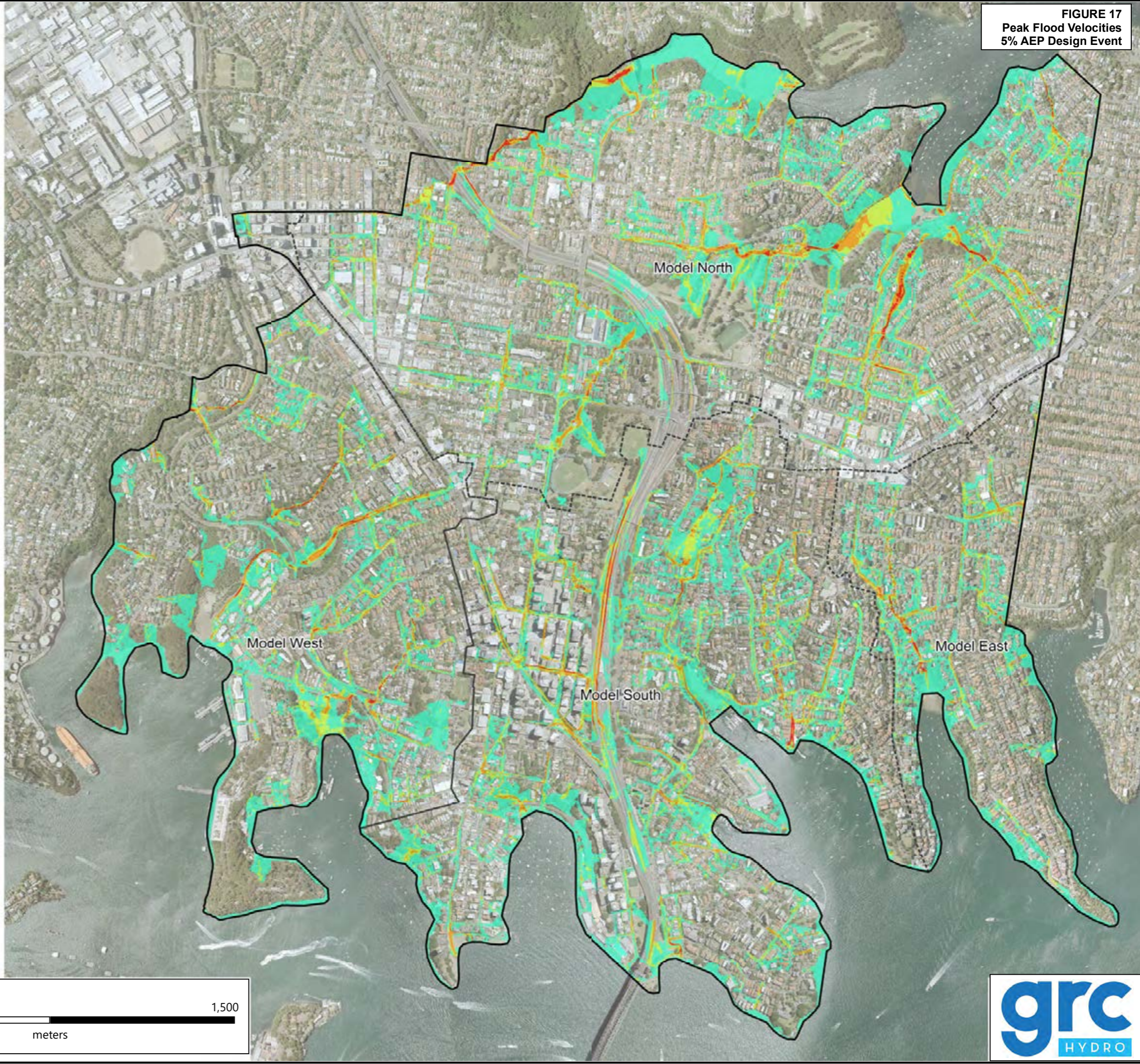




FIGURE 17  
Peak Flood Velocities  
5% AEP Design Event



Peak Velocity (m/s)

Cyan	0 to 0.5
Yellow	0.5 to 1.0
Orange	1.0 to 2.0
Red	> 2.0

Study Area

Hydraulic Model Quadrants

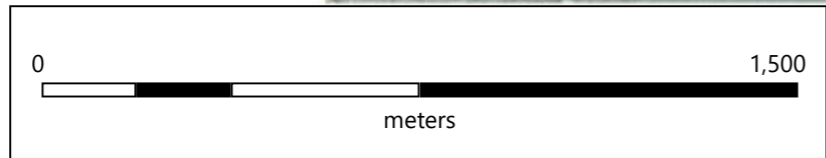
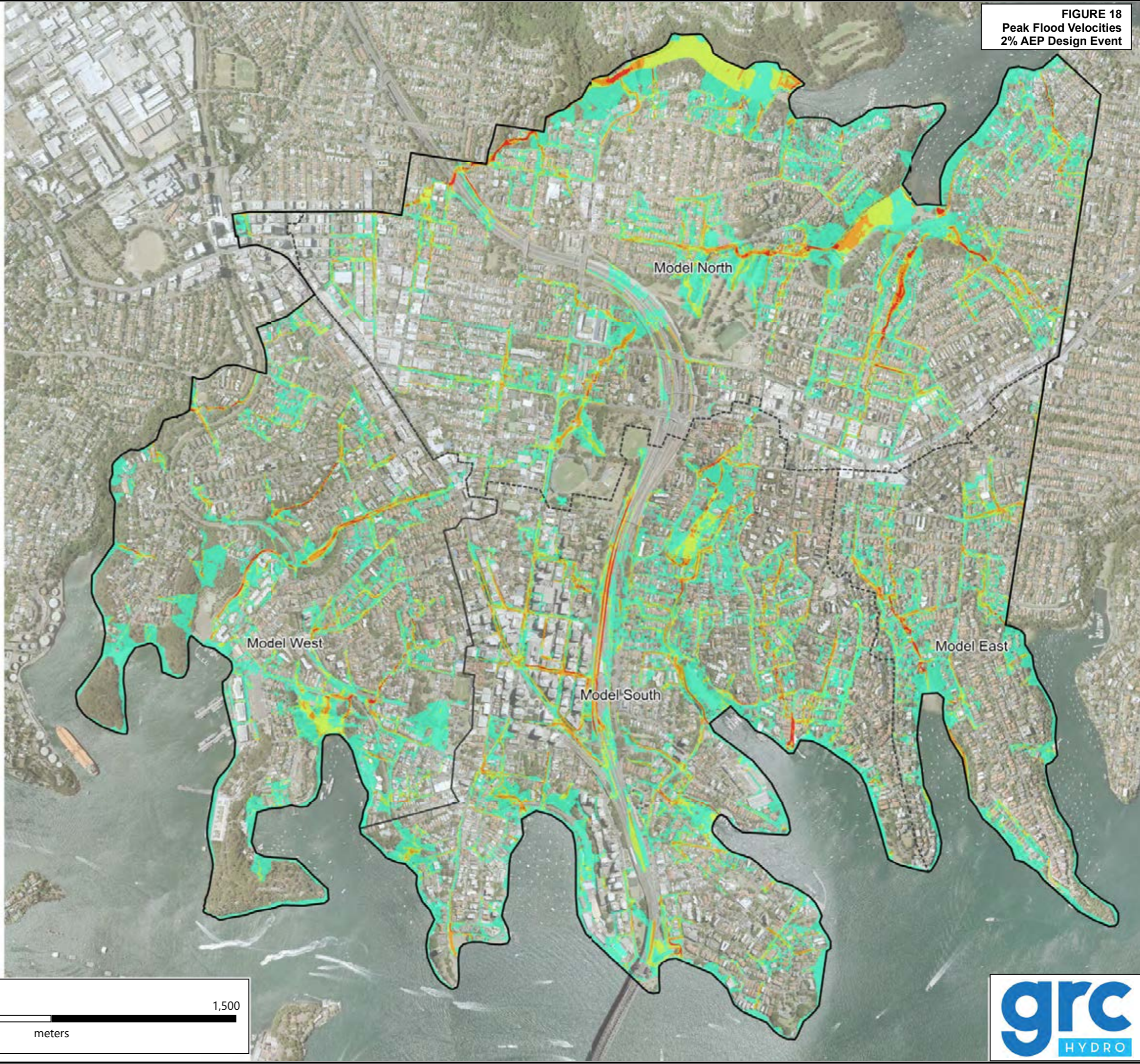




FIGURE 18  
Peak Flood Velocities  
2% AEP Design Event



Peak Velocity (m/s)

0 to 0.5
0.5 to 1.0
1.0 to 2.0
> 2.0

Study Area

Hydraulic Model Quadrants

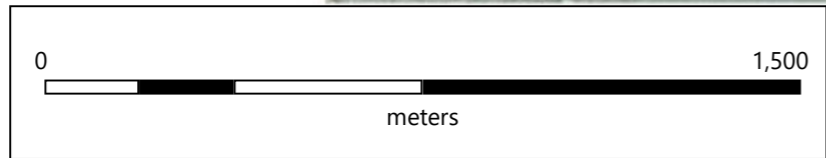
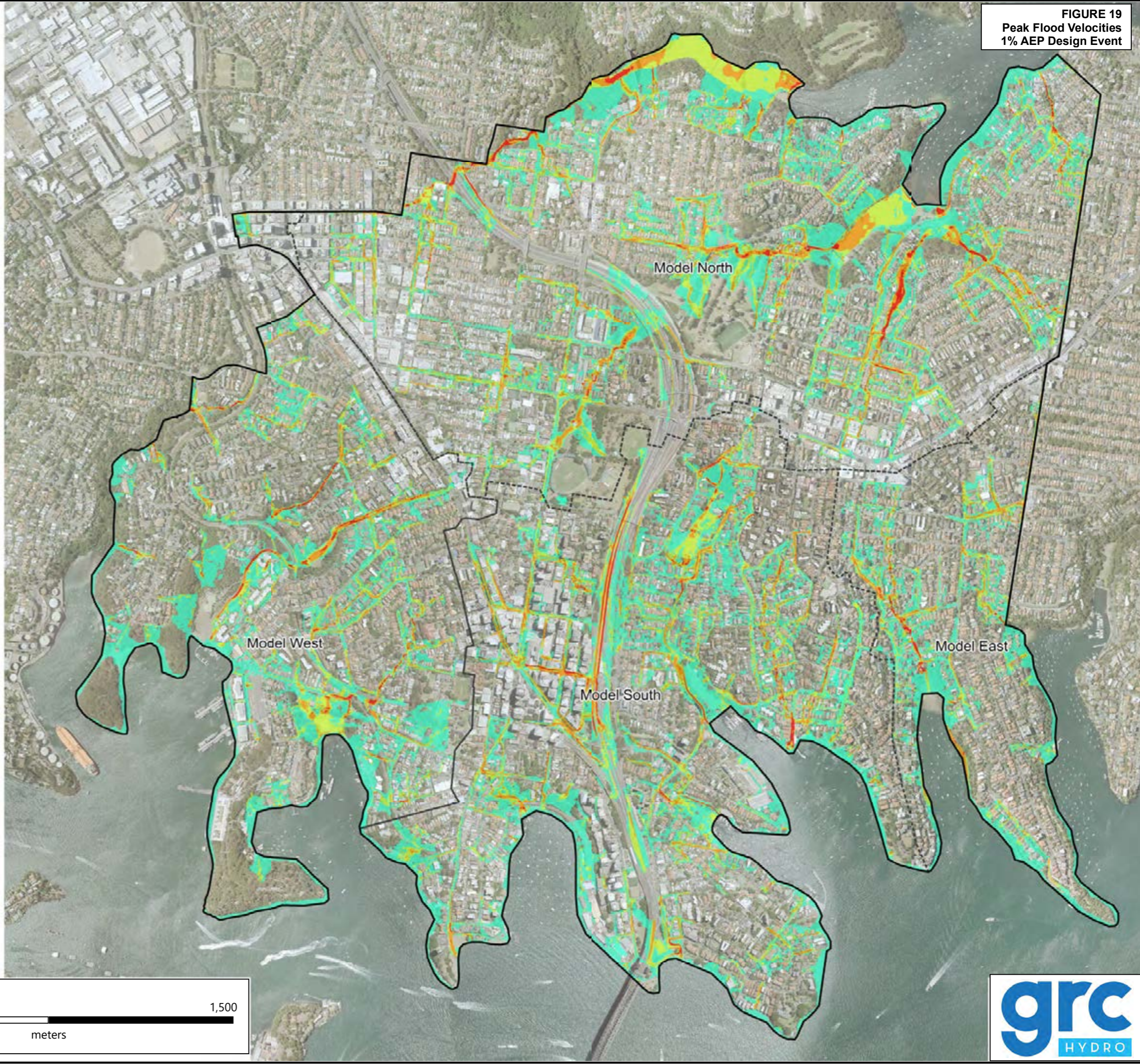




FIGURE 19  
Peak Flood Velocities  
1% AEP Design Event



Peak Velocity (m/s)

Cyan	0 to 0.5
Yellow	0.5 to 1.0
Orange	1.0 to 2.0
Red	> 2.0

Study Area

Hydraulic Model Quadrants

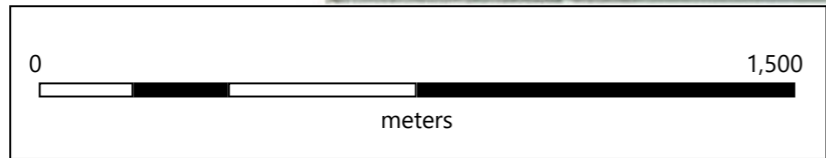
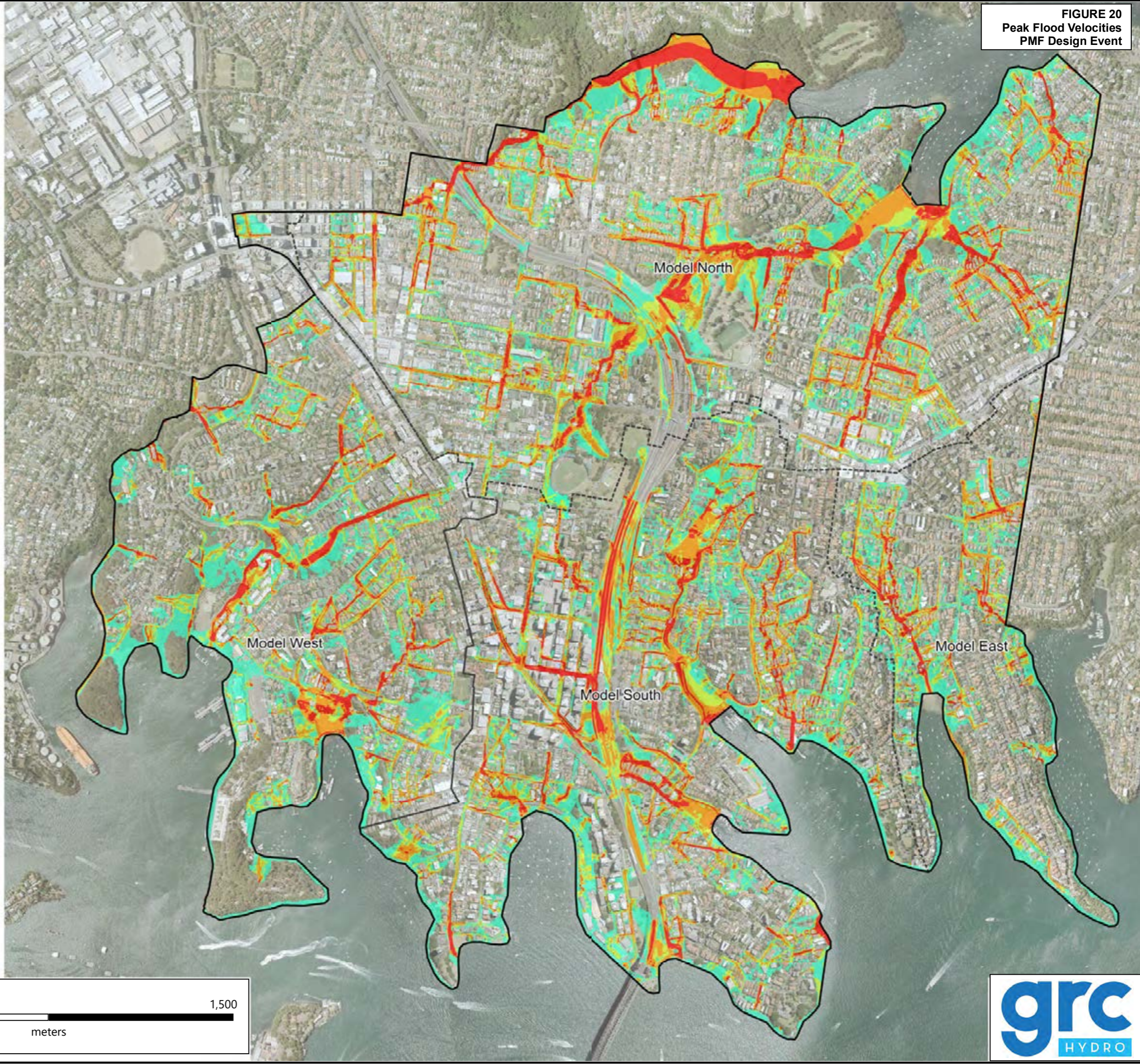




FIGURE 20  
Peak Flood Velocities  
PMF Design Event

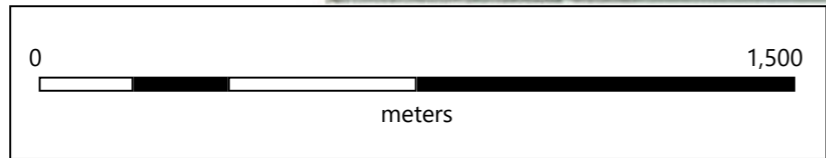


Peak Velocity (m/s)

Cyan	0 to 0.5
Yellow	0.5 to 1.0
Orange	1.0 to 2.0
Red	> 2.0

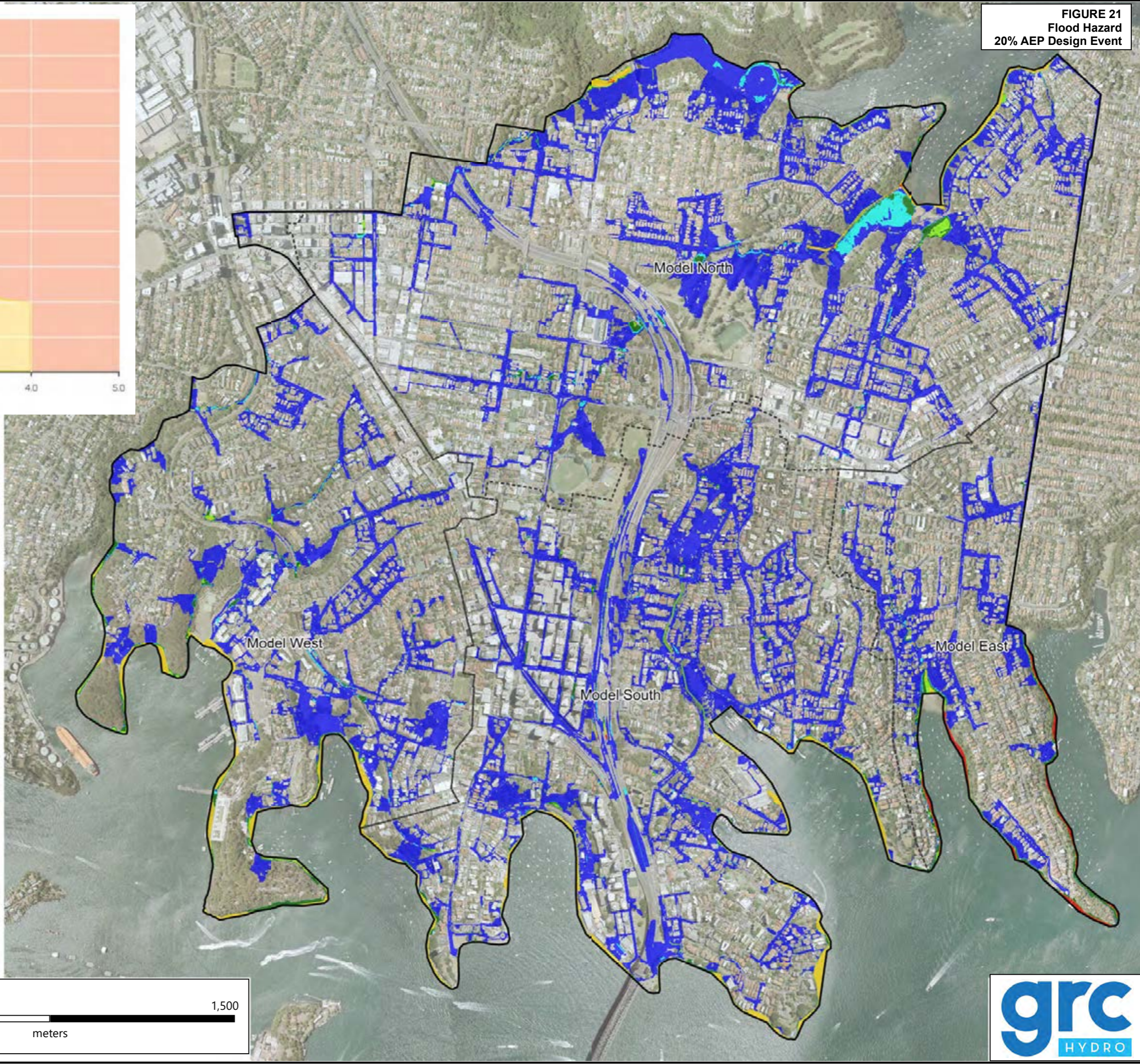
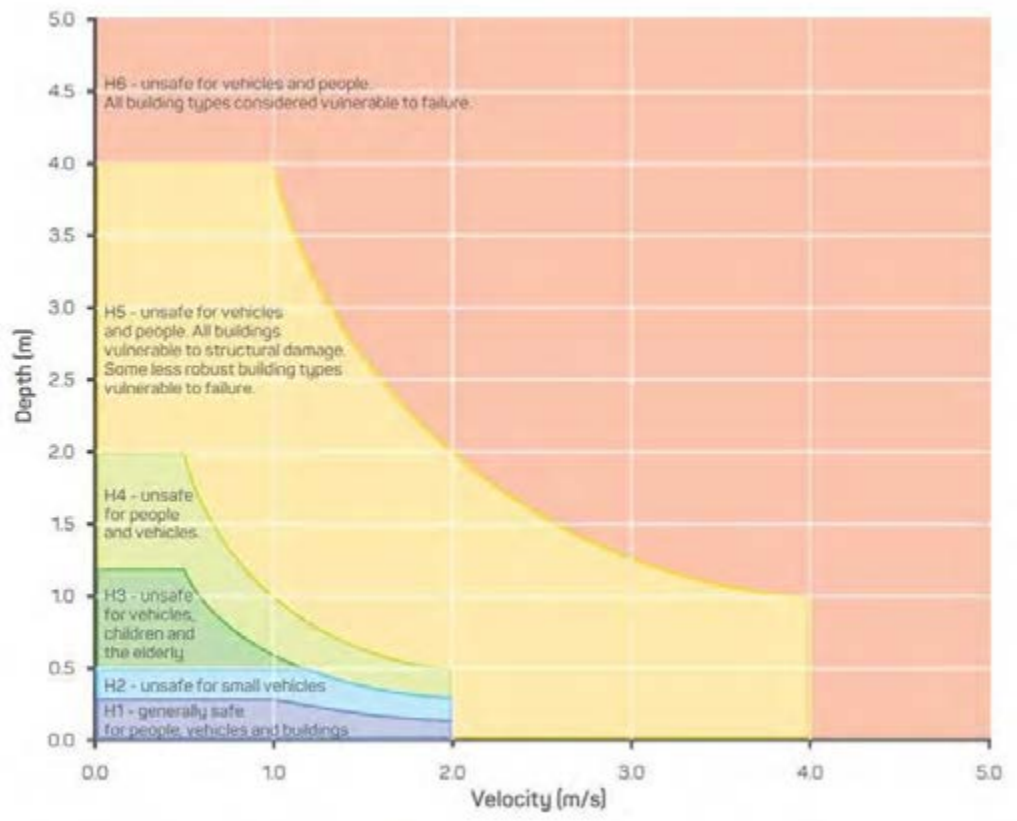
Study Area

Hydraulic Model Quadrants





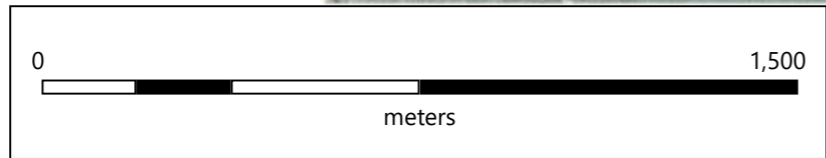
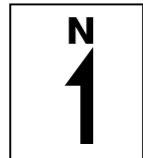
**FIGURE 21**  
Flood Hazard  
20% AEP Design Event



**Hazard Classification**

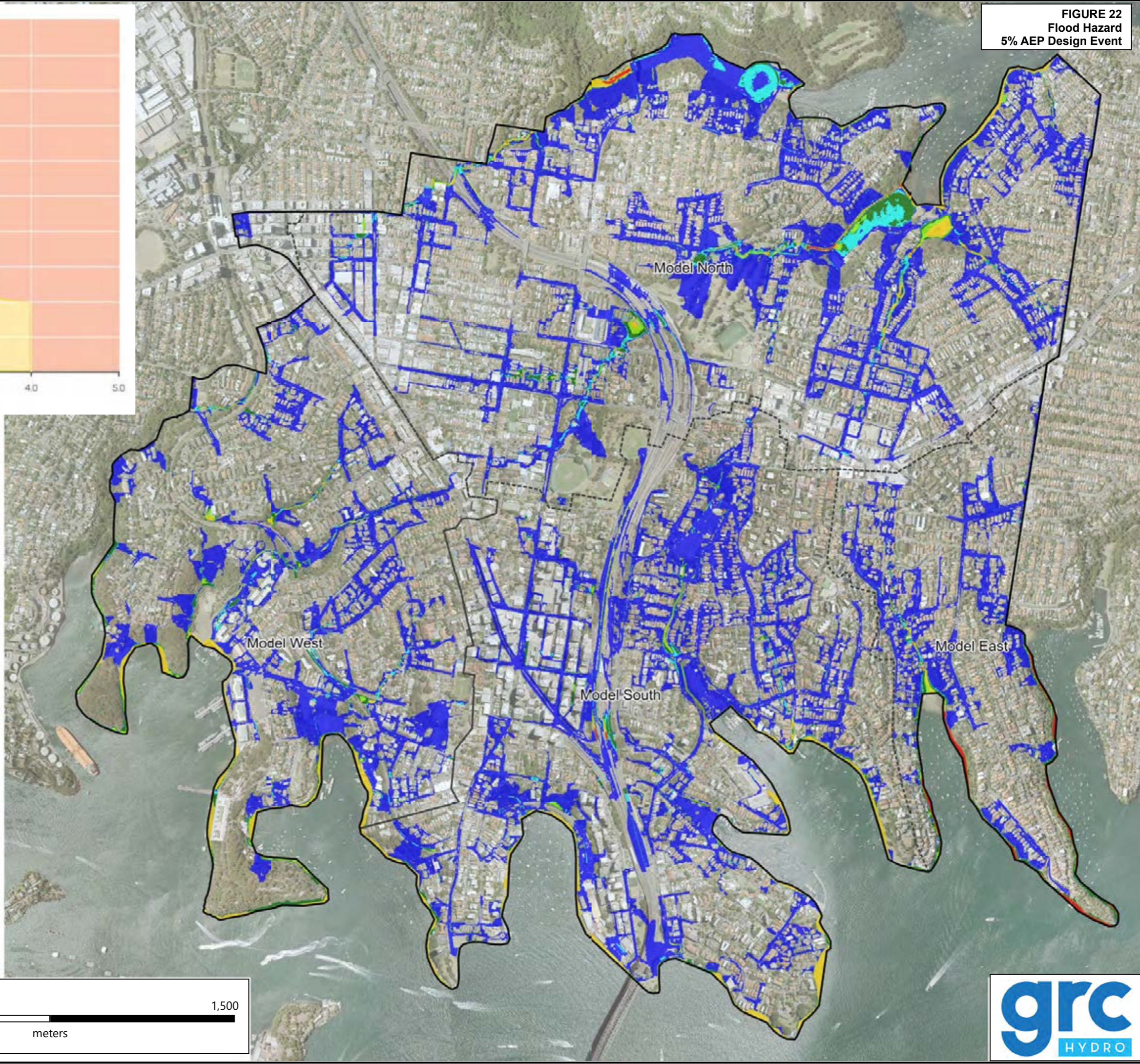
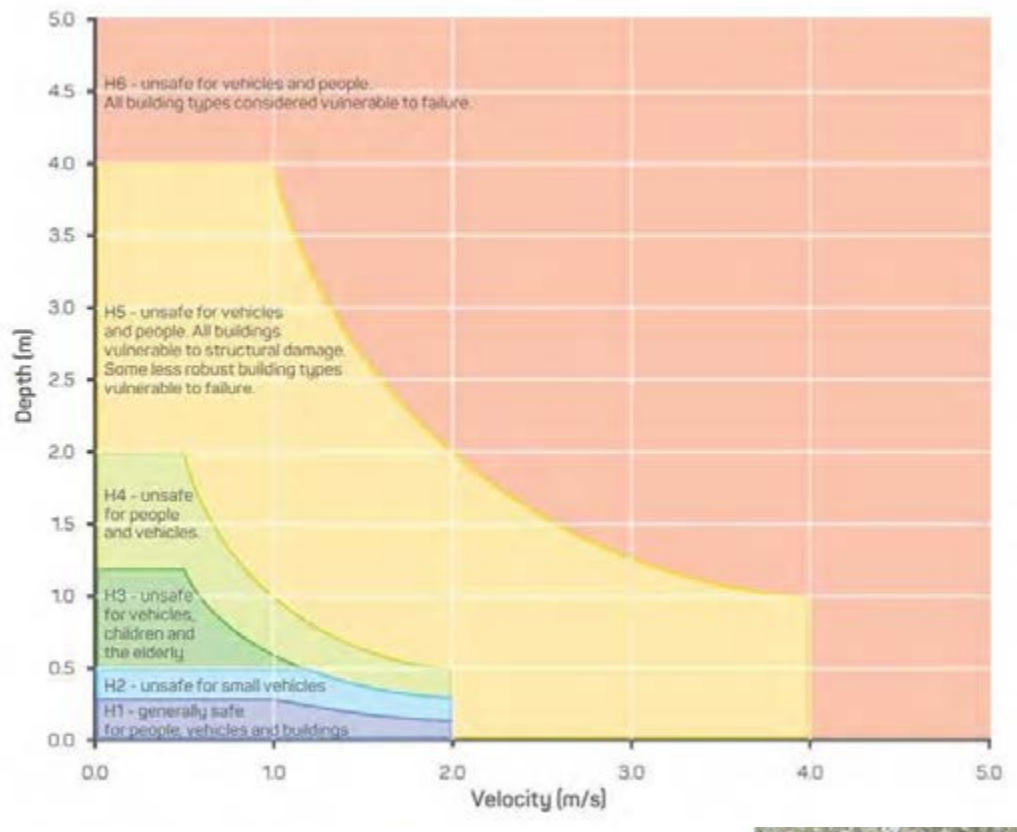
- H1
- H2
- H3
- H4
- H5
- H6

Study Area  
 Hydraulic Model Quadrants





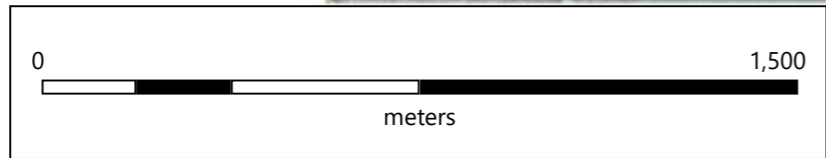
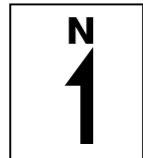
**FIGURE 22**  
**Flood Hazard**  
**5% AEP Design Event**



**Hazard Classification**

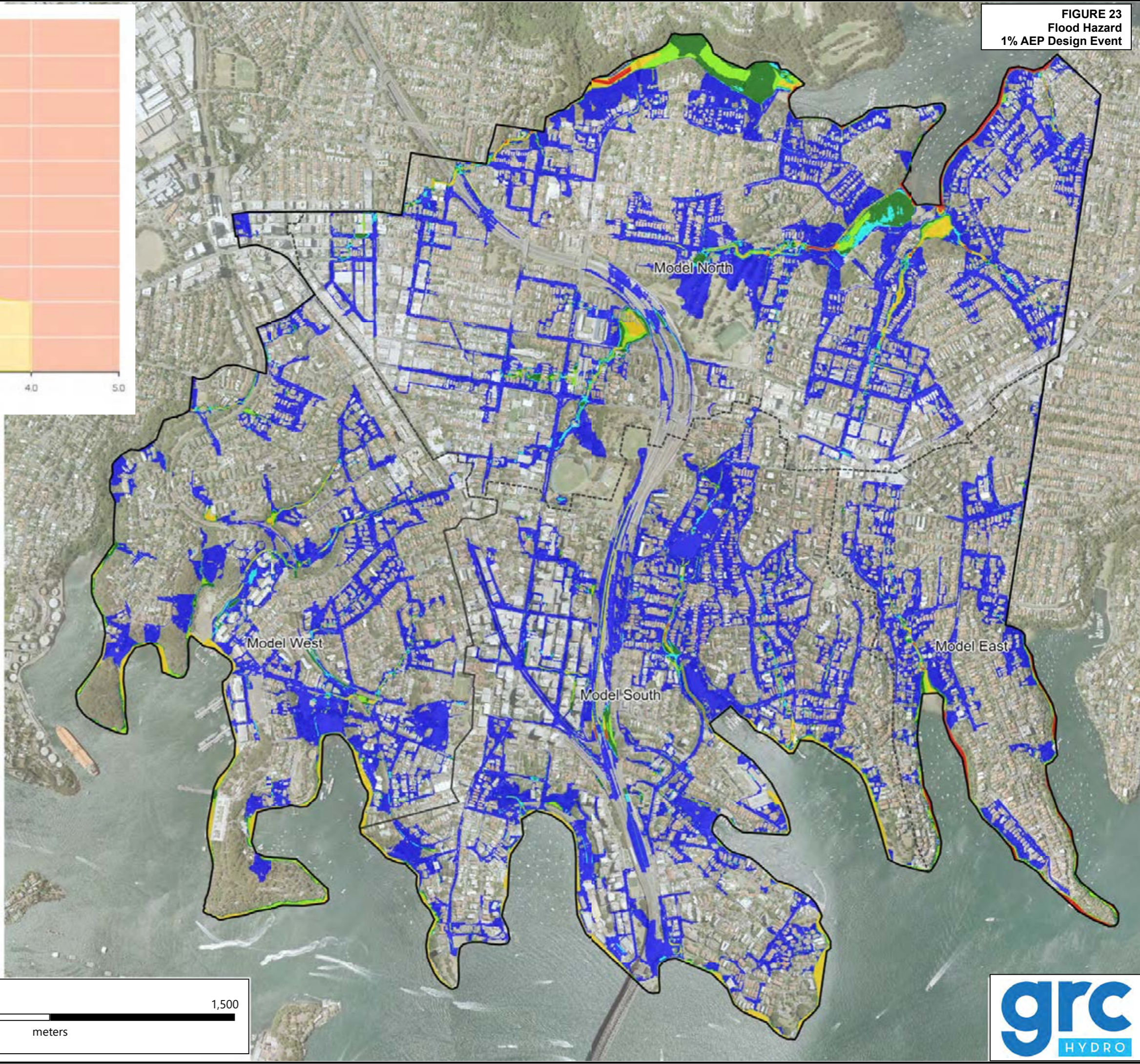
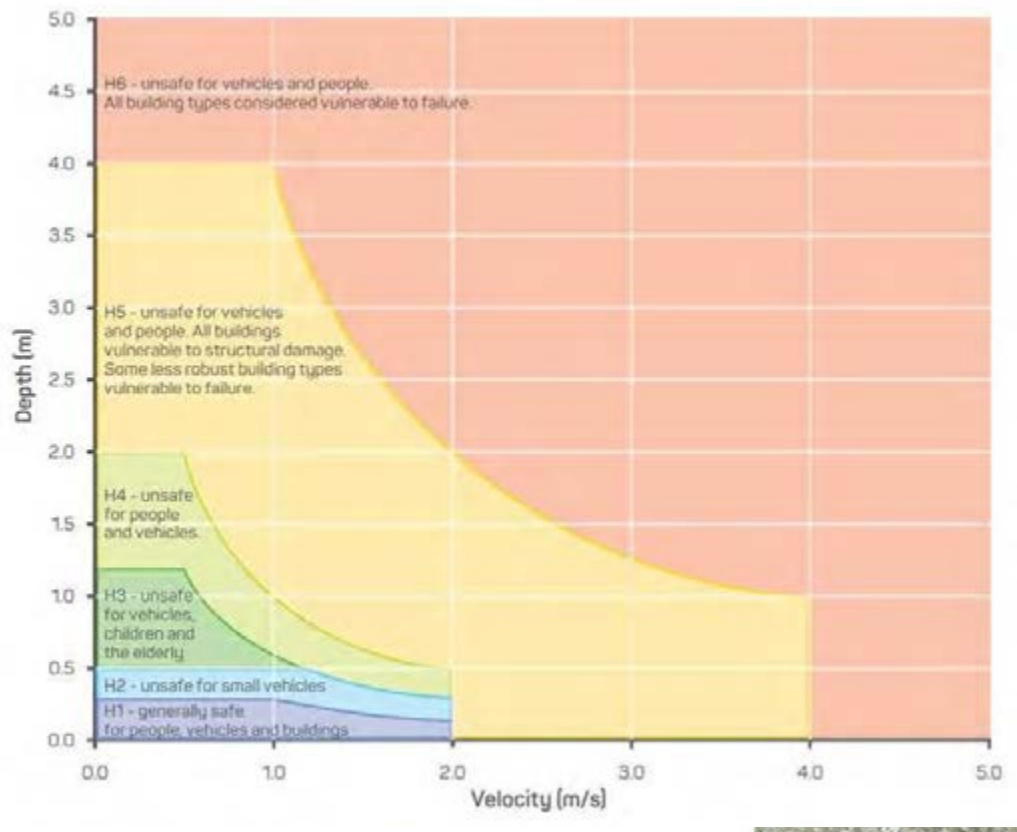
- H1
- H2
- H3
- H4
- H5
- H6

Study Area  
 Hydraulic Model Quadrants





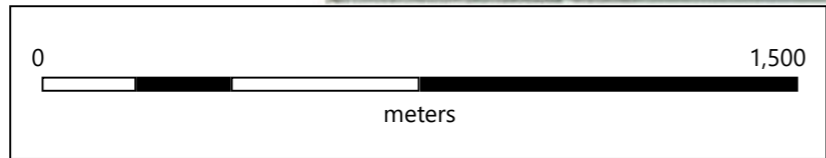
**FIGURE 23**  
**Flood Hazard**  
**1% AEP Design Event**



**Hazard Classification**

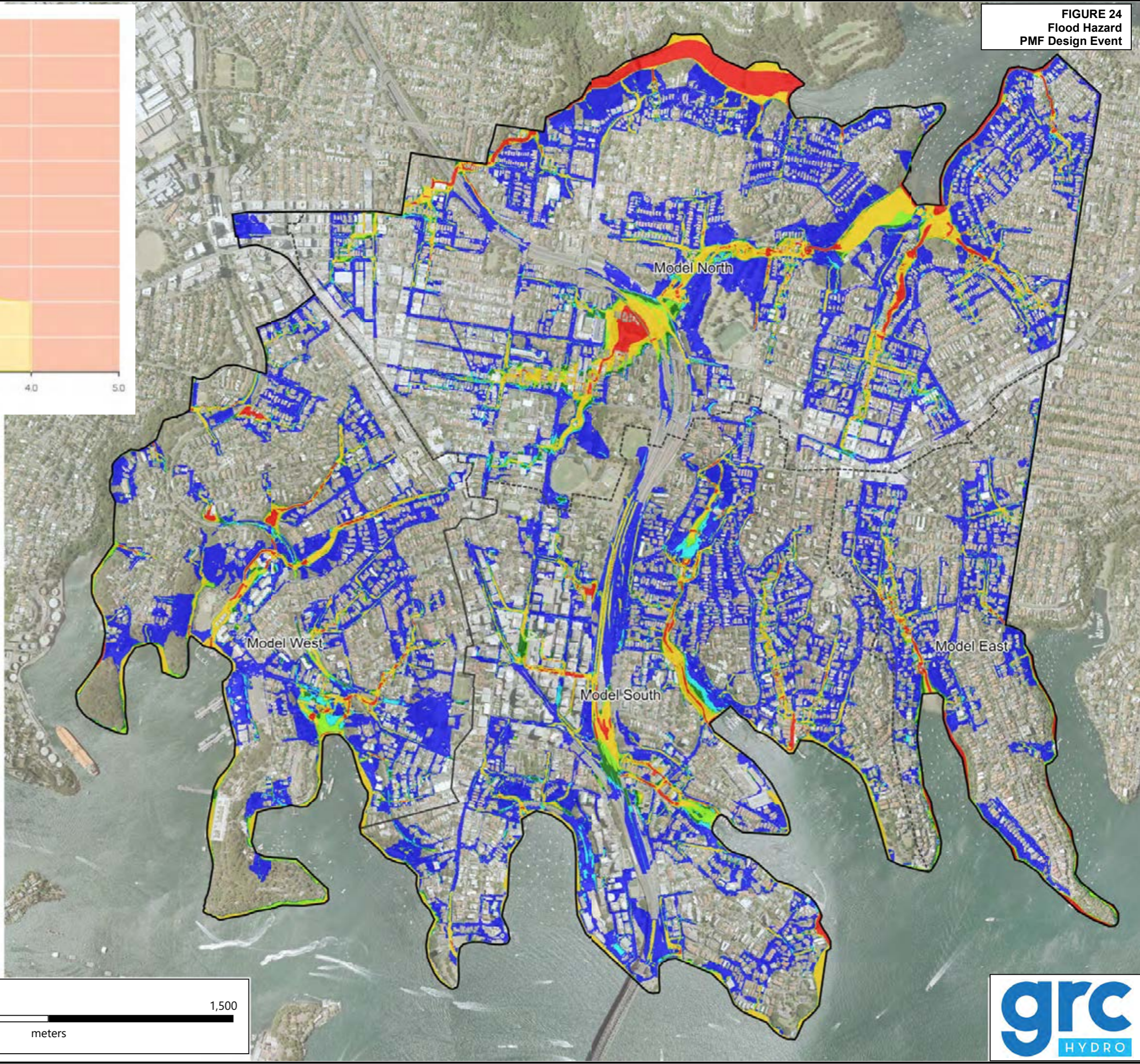
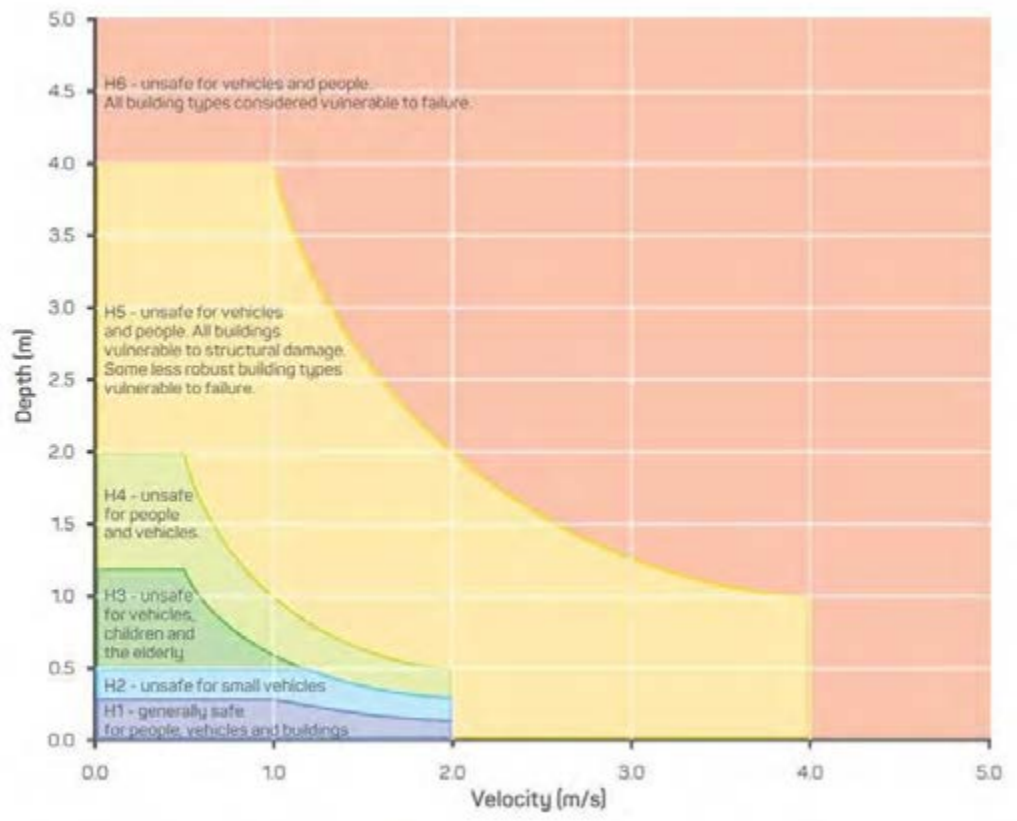
- H1
- H2
- H3
- H4
- H5
- H6

Study Area  
 Hydraulic Model Quadrants





**FIGURE 24**  
Flood Hazard  
PMF Design Event



**Hazard Classification**

- H1
- H2
- H3
- H4
- H5
- H6

Study Area  
 Hydraulic Model Quadrants

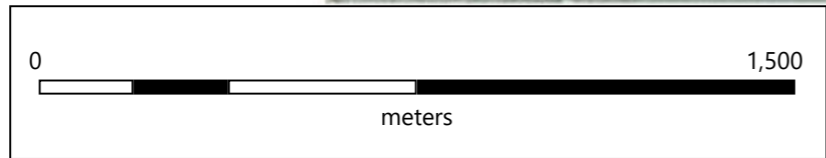
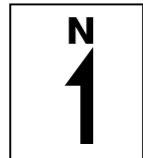
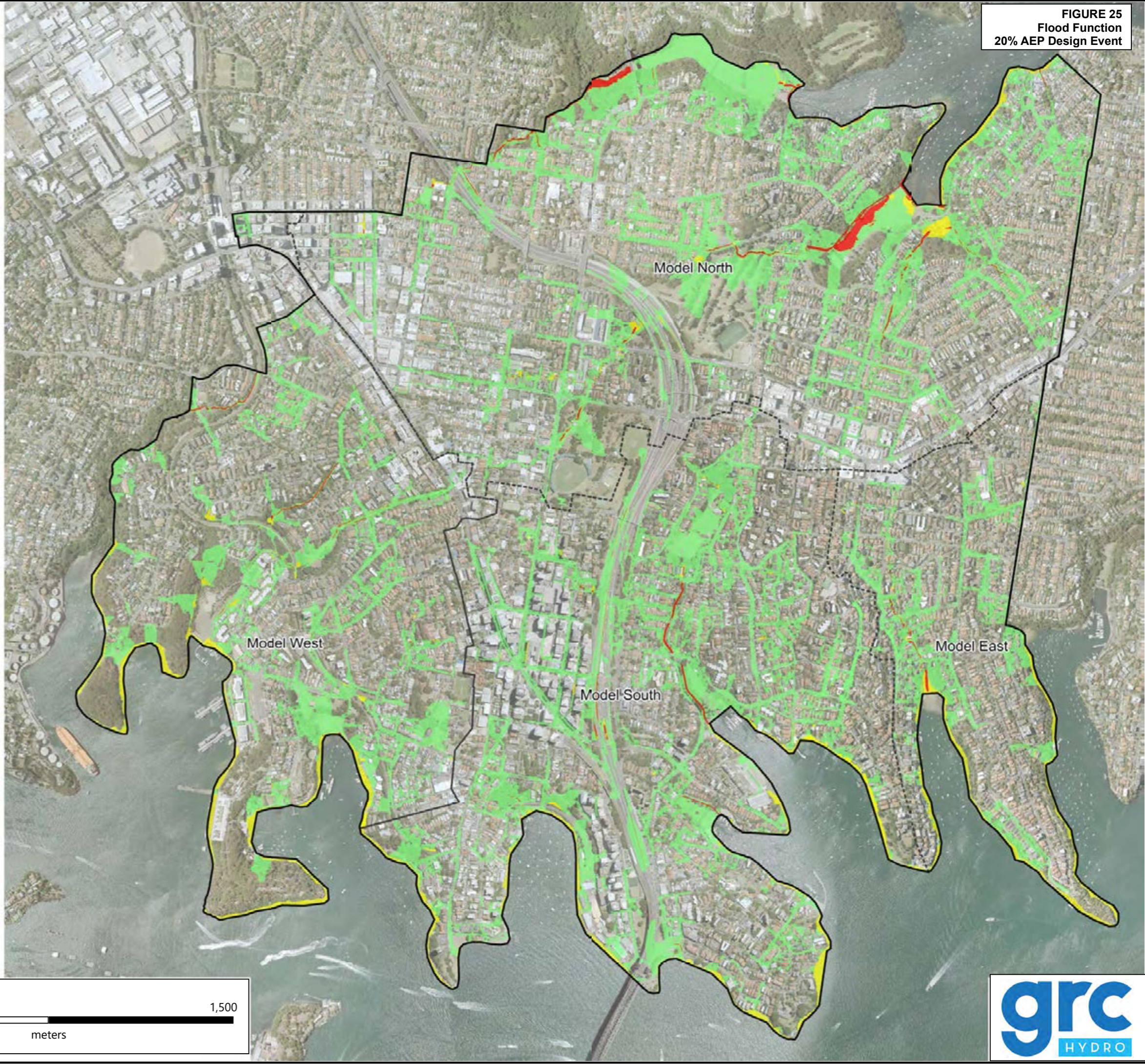









FIGURE 25  
Flood Function  
20% AEP Design Event



**Flood Function**

-  Floodway
-  Flood Storage
-  Flood Fringe

 Study Area

 Hydraulic Model Quadrants

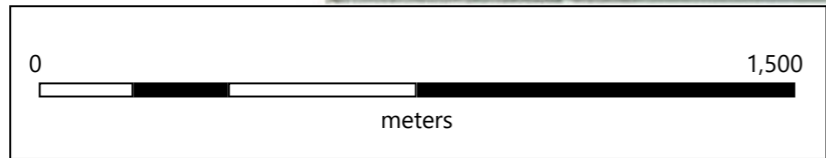
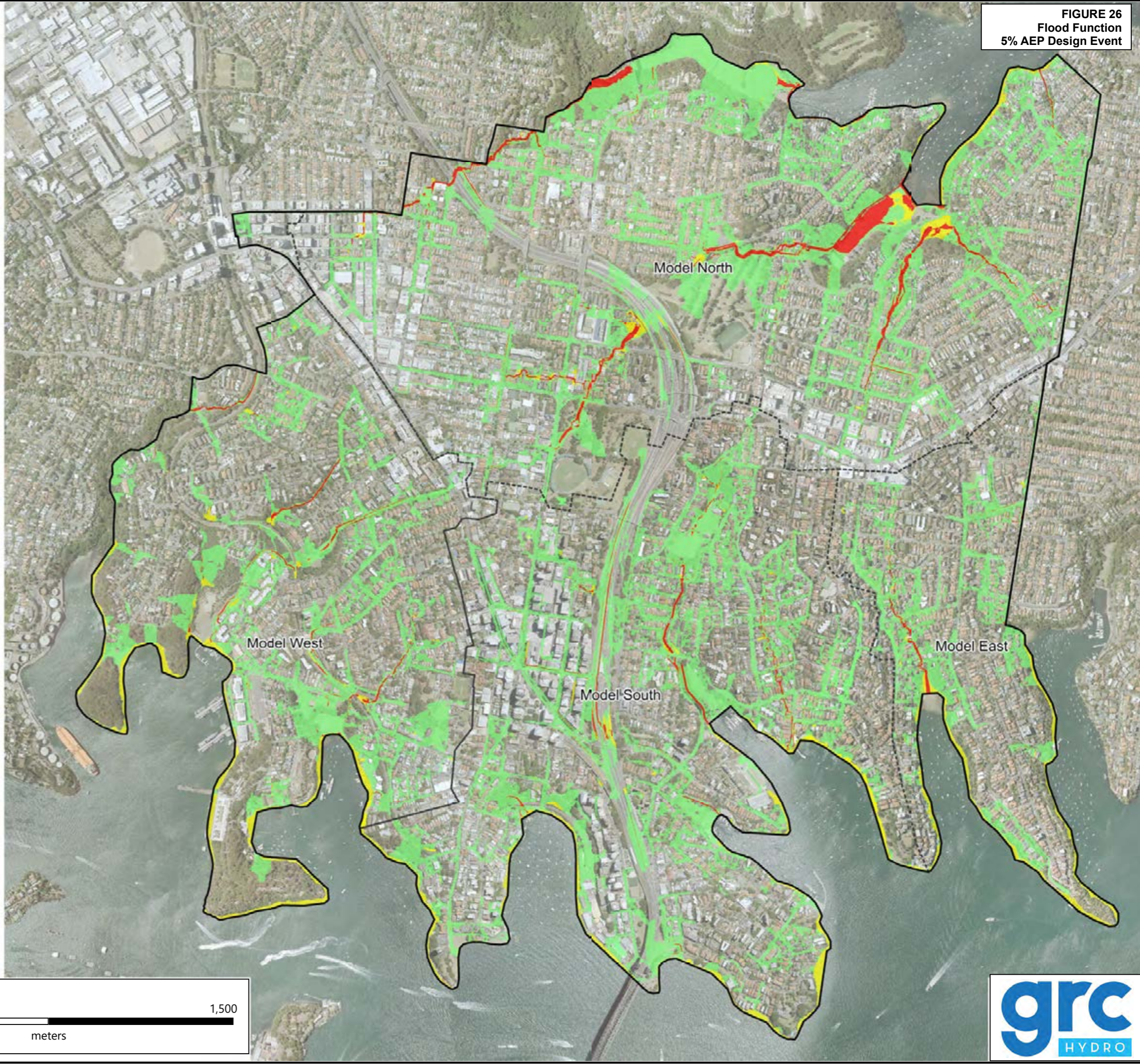









FIGURE 26  
Flood Function  
5% AEP Design Event



**Flood Function**

-  Floodway
-  Flood Storage
-  Flood Fringe

 Study Area

 Hydraulic Model Quadrants

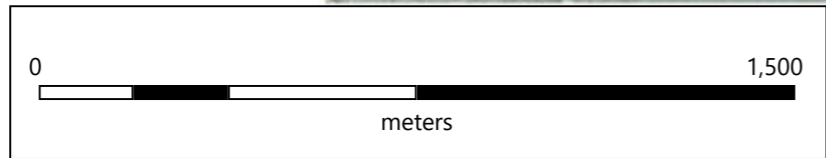
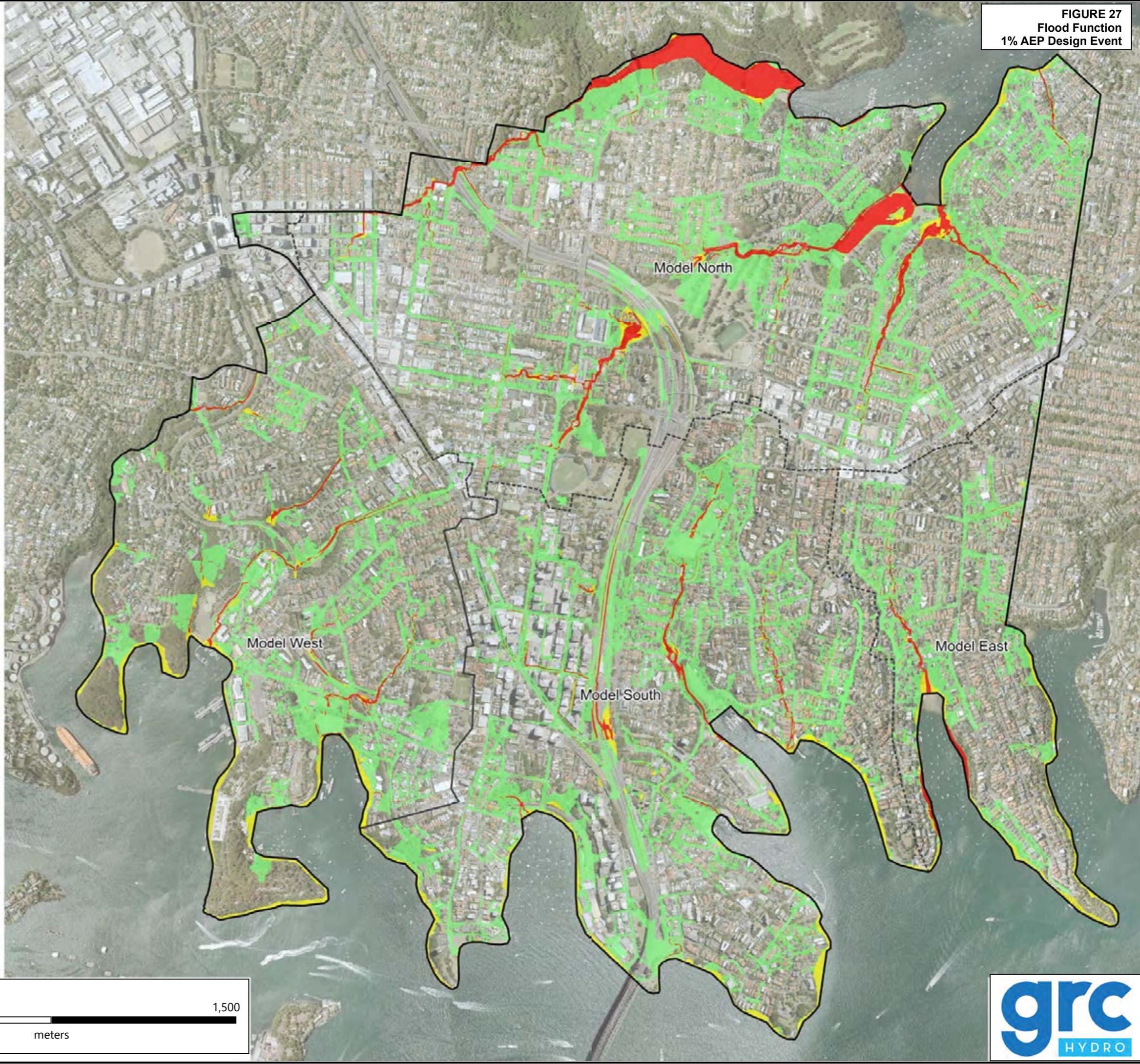









FIGURE 27  
Flood Function  
1% AEP Design Event



**Flood Function**

-  Floodway
-  Flood Storage
-  Flood Fringe

 Study Area

 Hydraulic Model Quadrants

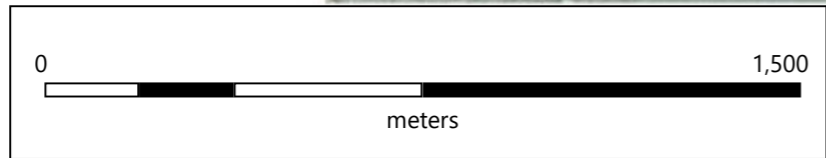
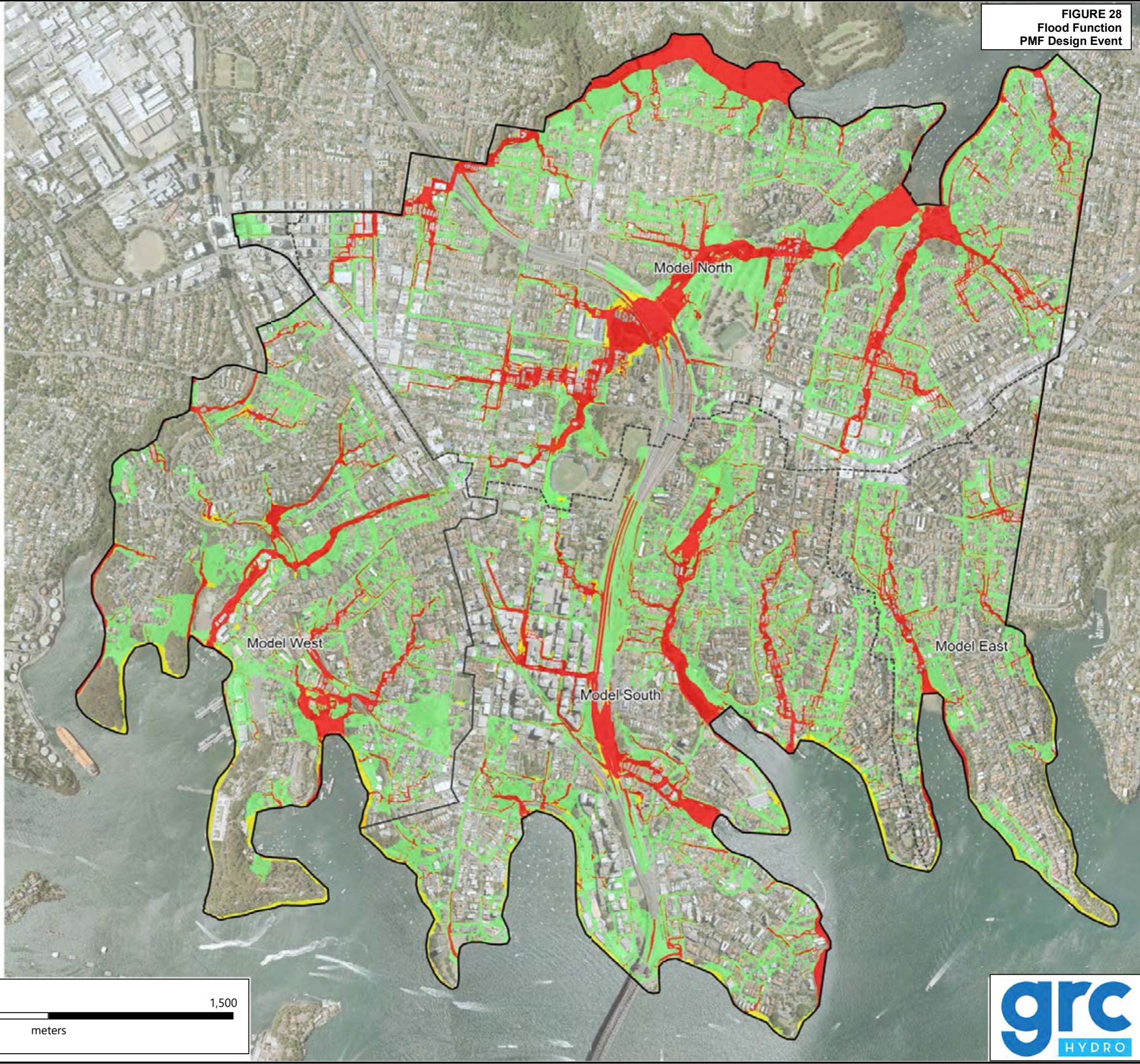




FIGURE 28  
Flood Function  
PMF Design Event

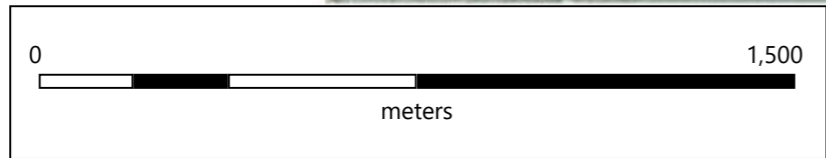


**Flood Function**

- Floodway
- Flood Storage
- Flood Fringe

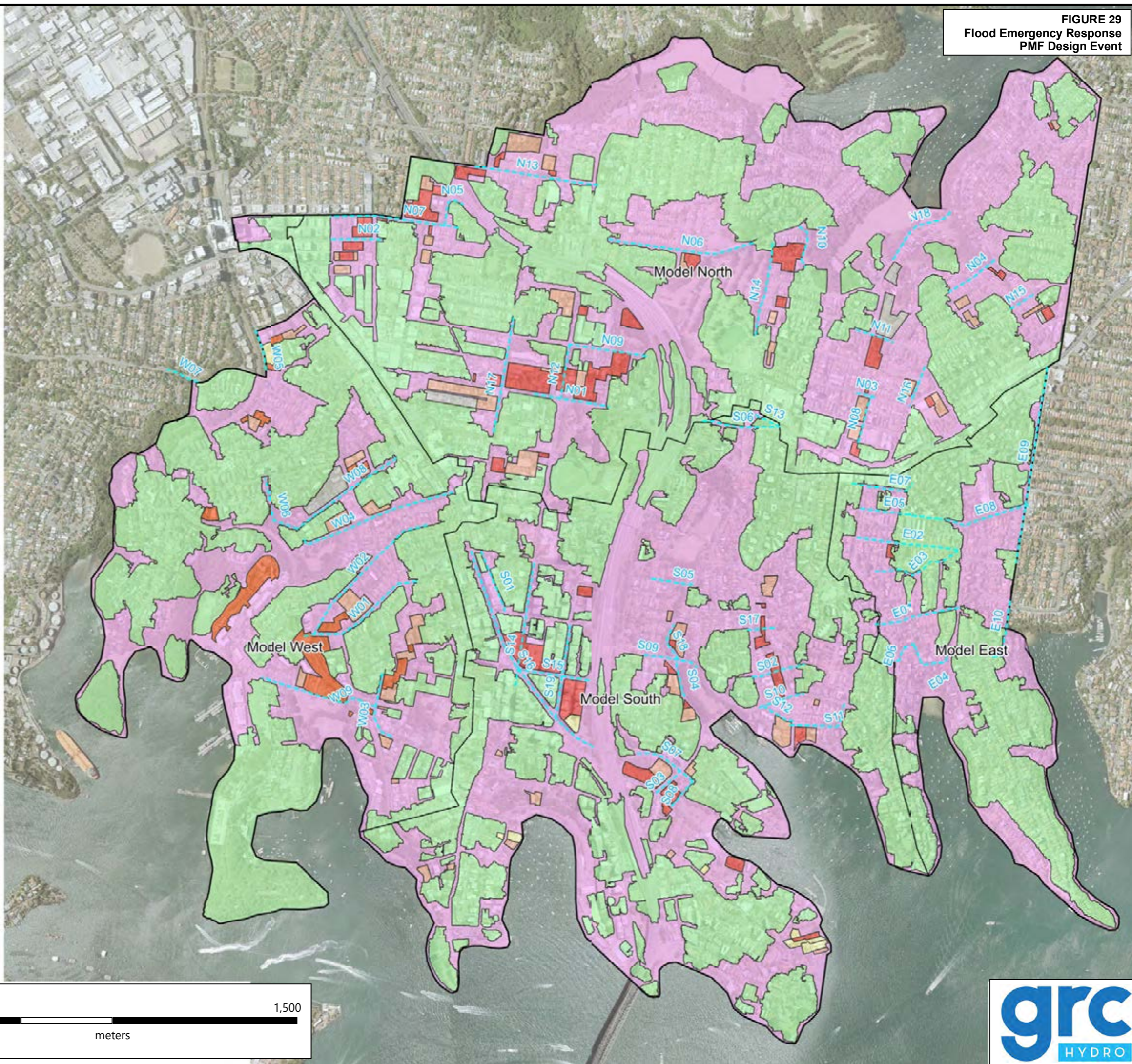
Study Area

Hydraulic Model Quadrants



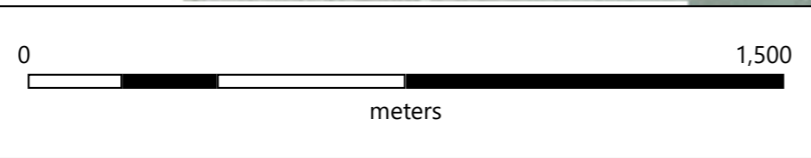


**FIGURE 29**  
**Flood Emergency Response**  
**PMF Design Event**



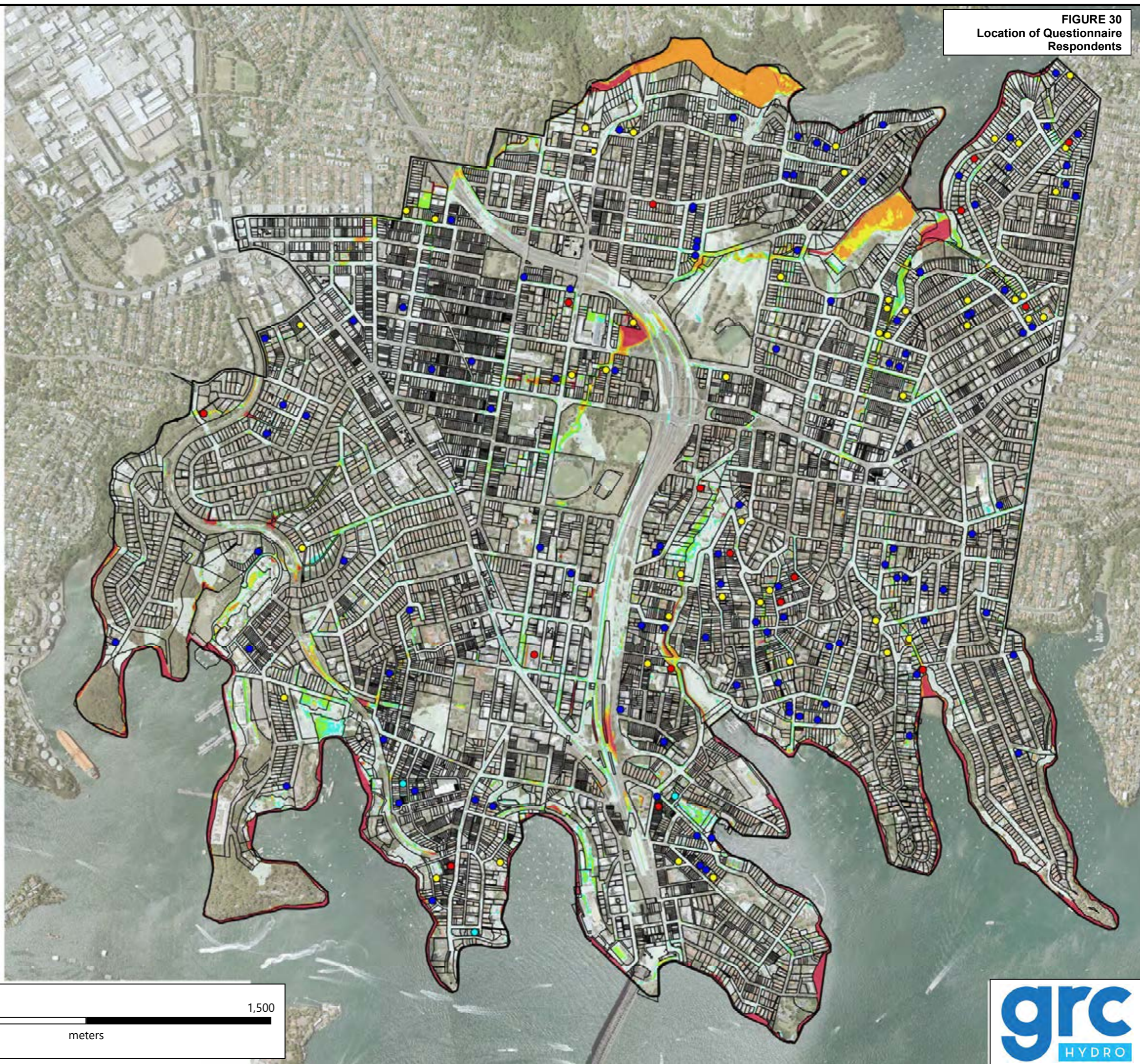
**Flood Emergency Response Classifications**

- Flood Free
- Indirect Consequence (NIC)
- Rising Road (FER)
- Elevated (FIE)
- Overland Escape (FEO)
- Submerged (FIS)
- Key Routes
- Study Area
- Hydraulic Model Quadrants





**FIGURE 30**  
Location of Questionnaire Respondents



**Flooded**

- Yes, above floor level (16)
- Yes, in the yard or garage (48)
- No (109)
- No answer (4)

**Flood Depth (m)**

- 0 to 0.1
- 0.1 to 0.15
- 0.15 to 0.3
- 0.3 to 0.5
- 0.5 to 1
- 1 to 10

□ Cadastral Boundaries

□ Study Area

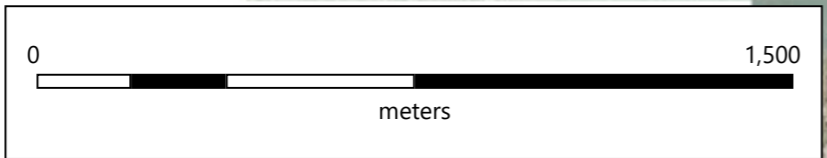
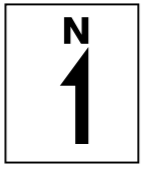




Figure 31 - A  
Draft Flood Planning Area





Figure 31 - B  
Draft Flood Planning Area





Figure 31 - C  
Draft Flood Planning Area



— Floodway

Tagged Properties

- Category A (626)
- Category B (211)

Flood Depth (m)

- 0 to 0.1
- 0.1 to 0.3
- > 0.3

— Cadastral Boundaries

— Study Area

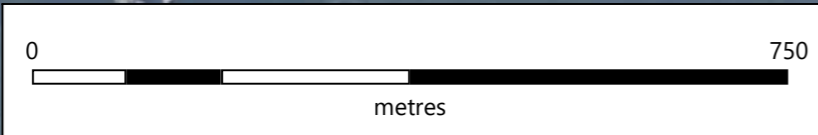




Figure 31 - D  
Draft Flood Planning Area

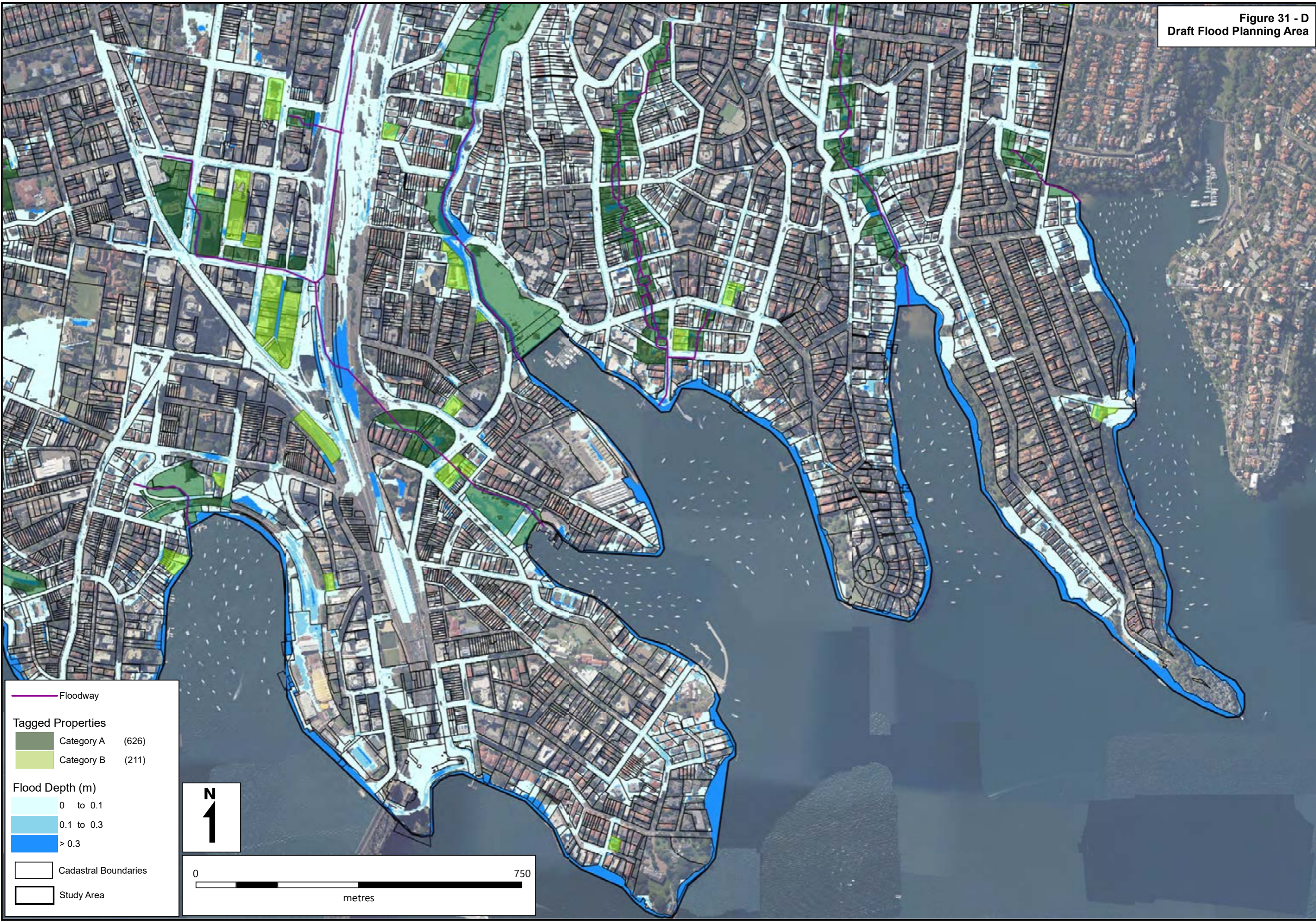
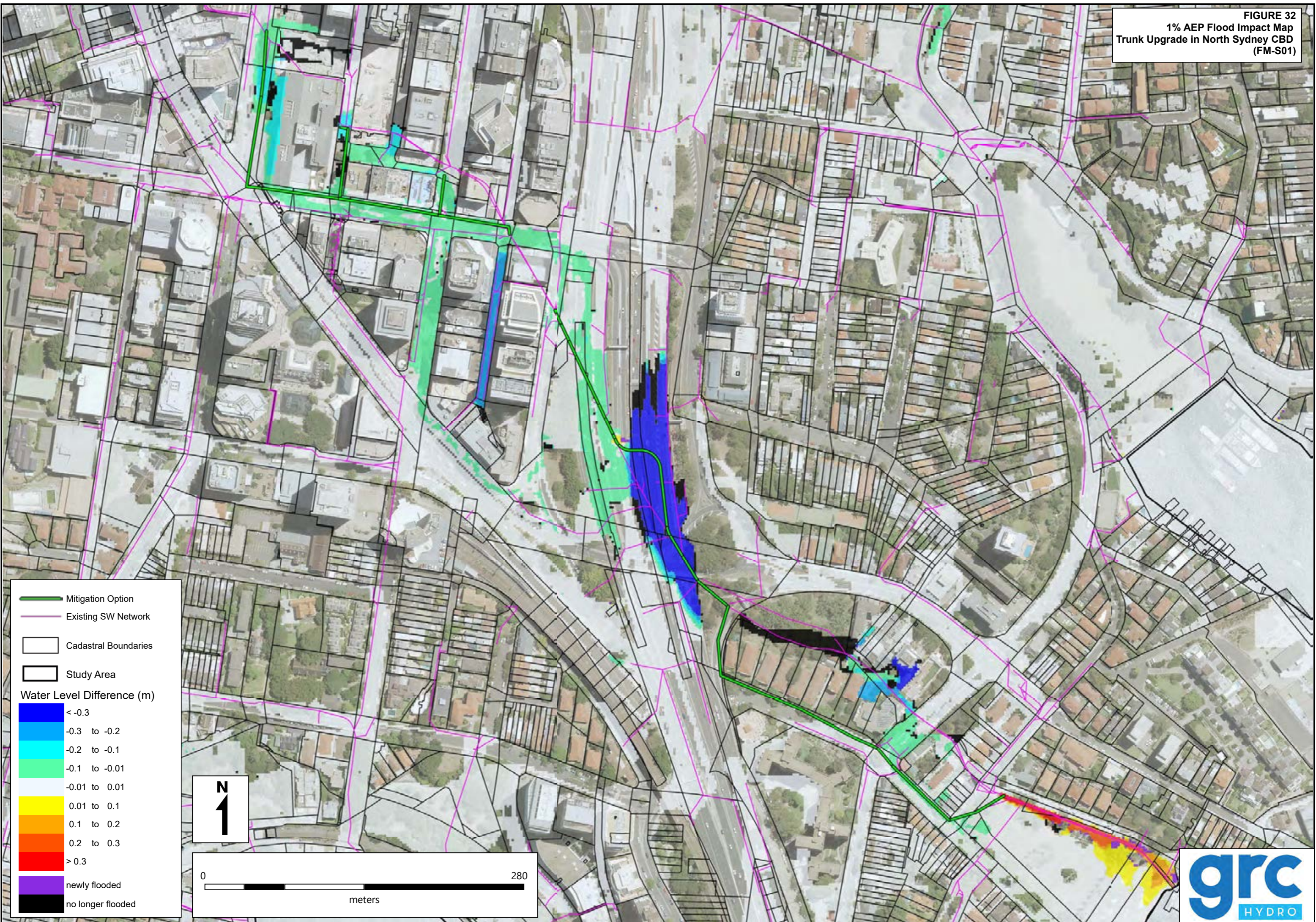




FIGURE 32  
1% AEP Flood Impact Map  
Trunk Upgrade in North Sydney CBD  
(FM-S01)



- Mitigation Option
- Existing SW Network
- Cadastral Boundaries
- Study Area

Water Level Difference (m)

<math>< -0.3</math>
-0.3 to -0.2
-0.2 to -0.1
-0.1 to -0.01
-0.01 to 0.01
0.01 to 0.1
0.1 to 0.2
0.2 to 0.3
> 0.3

- newly flooded
- no longer flooded

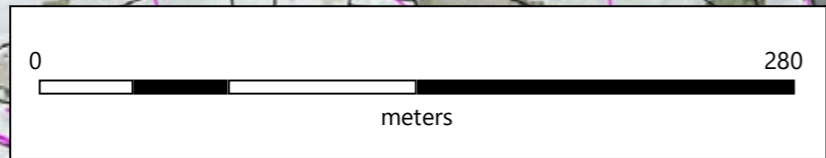
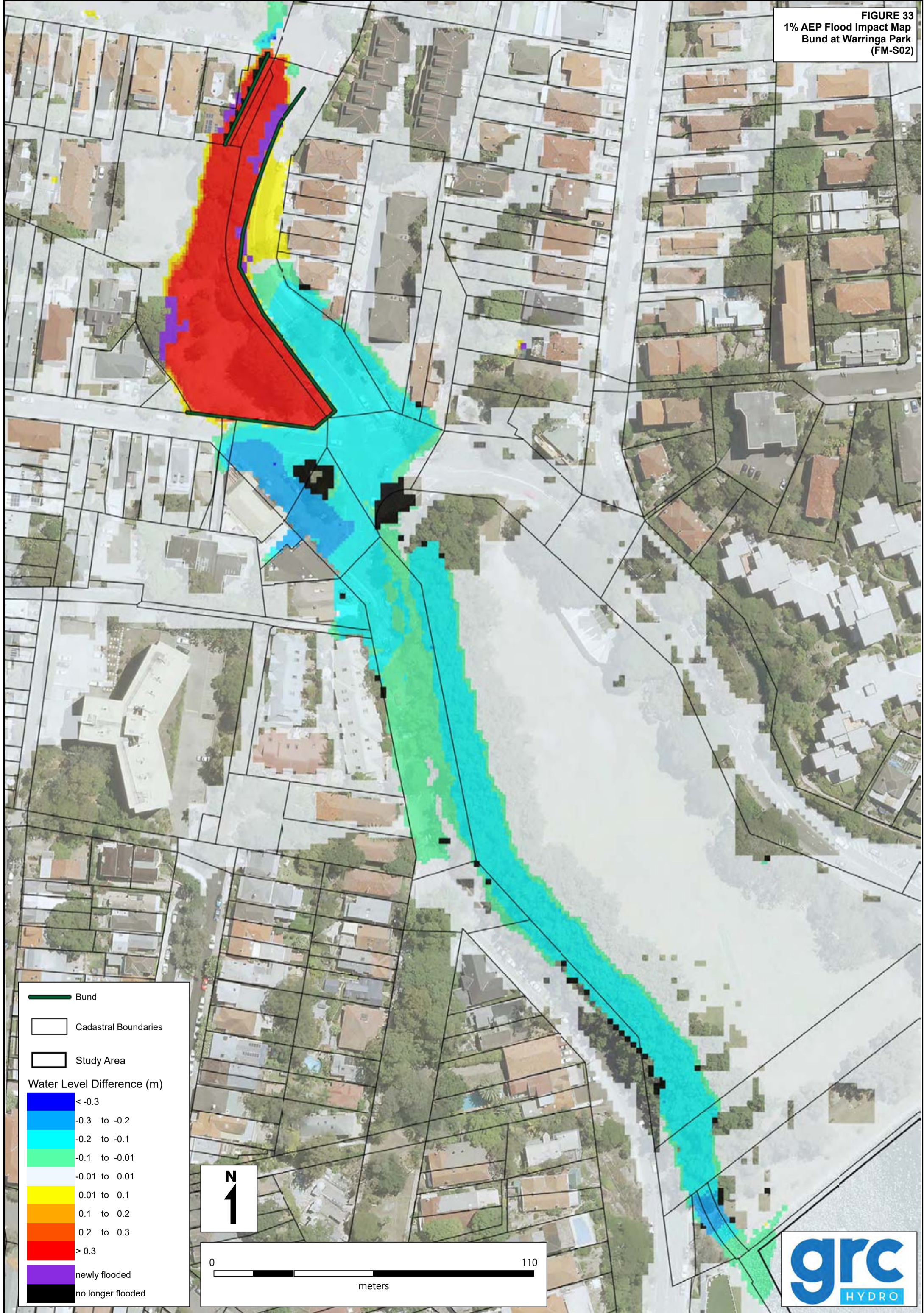




FIGURE 33  
1% AEP Flood Impact Map  
Bund at Warringa Park  
(FM-S02)



**Bund**

**Cadastral Boundaries**

**Study Area**

**Water Level Difference (m)**

Blue	< -0.3
Cyan	-0.3 to -0.2
Light Cyan	-0.2 to -0.1
Light Green	-0.1 to -0.01
White	-0.01 to 0.01
Yellow	0.01 to 0.1
Orange	0.1 to 0.2
Red	0.2 to 0.3
Dark Red	> 0.3
Purple	newly flooded
Black	no longer flooded

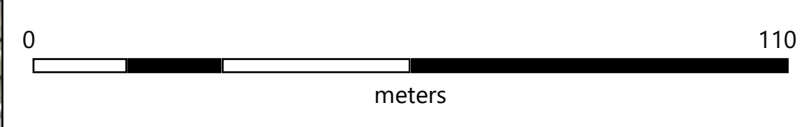
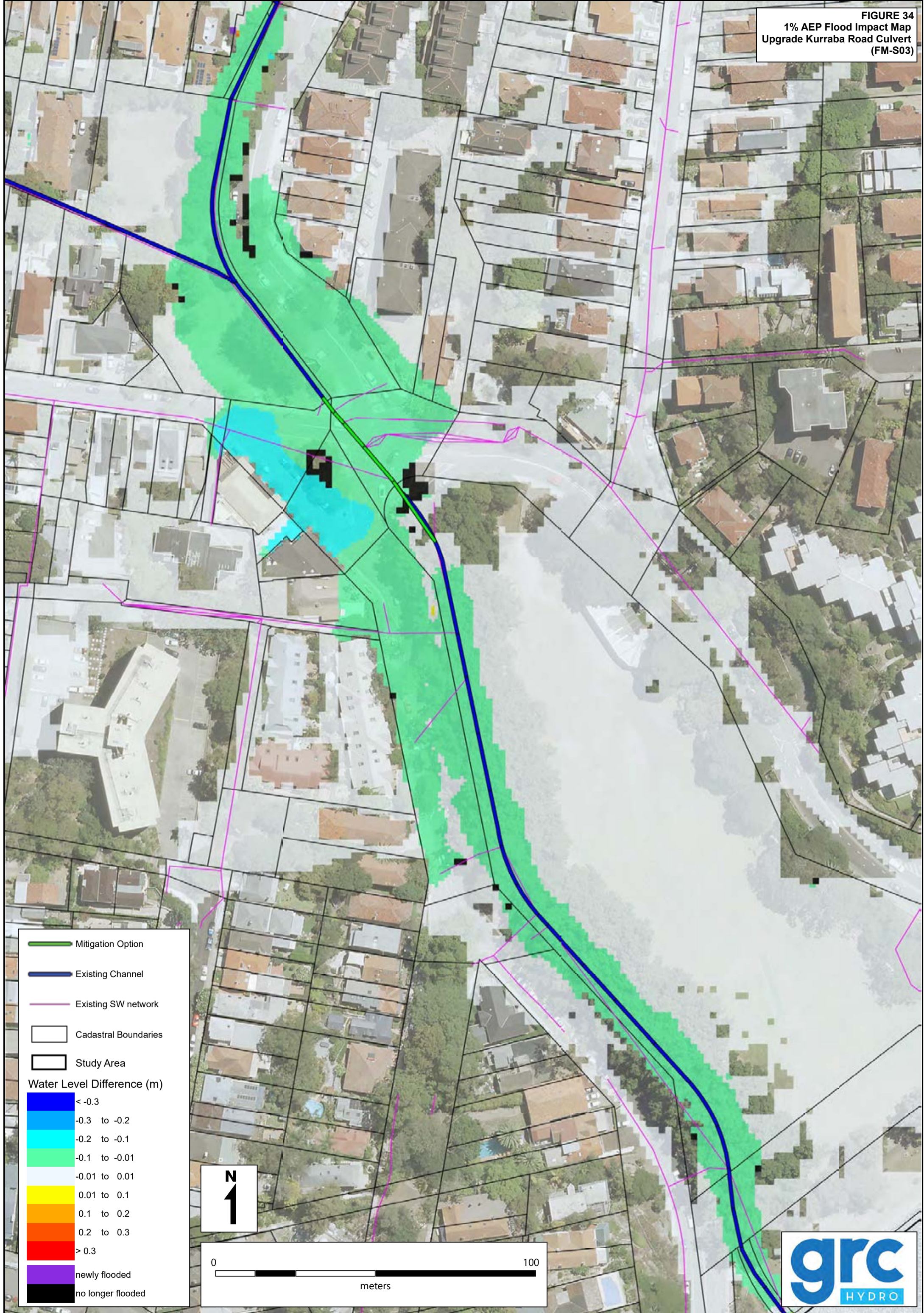


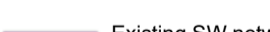

















FIGURE 34  
1% AEP Flood Impact Map  
Upgrade Kurraba Road Culvert  
(FM-S03)



-  Mitigation Option
-  Existing Channel
-  Existing SW network
-  Cadastral Boundaries
-  Study Area

Water Level Difference (m)

	< -0.3
	-0.3 to -0.2
	-0.2 to -0.1
	-0.1 to -0.01
	-0.01 to 0.01
	0.01 to 0.1
	0.1 to 0.2
	0.2 to 0.3
	> 0.3

-  newly flooded
-  no longer flooded

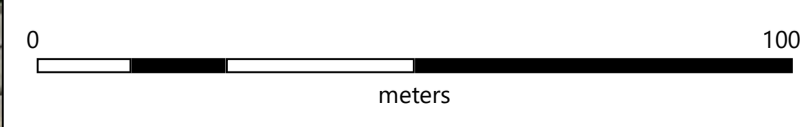
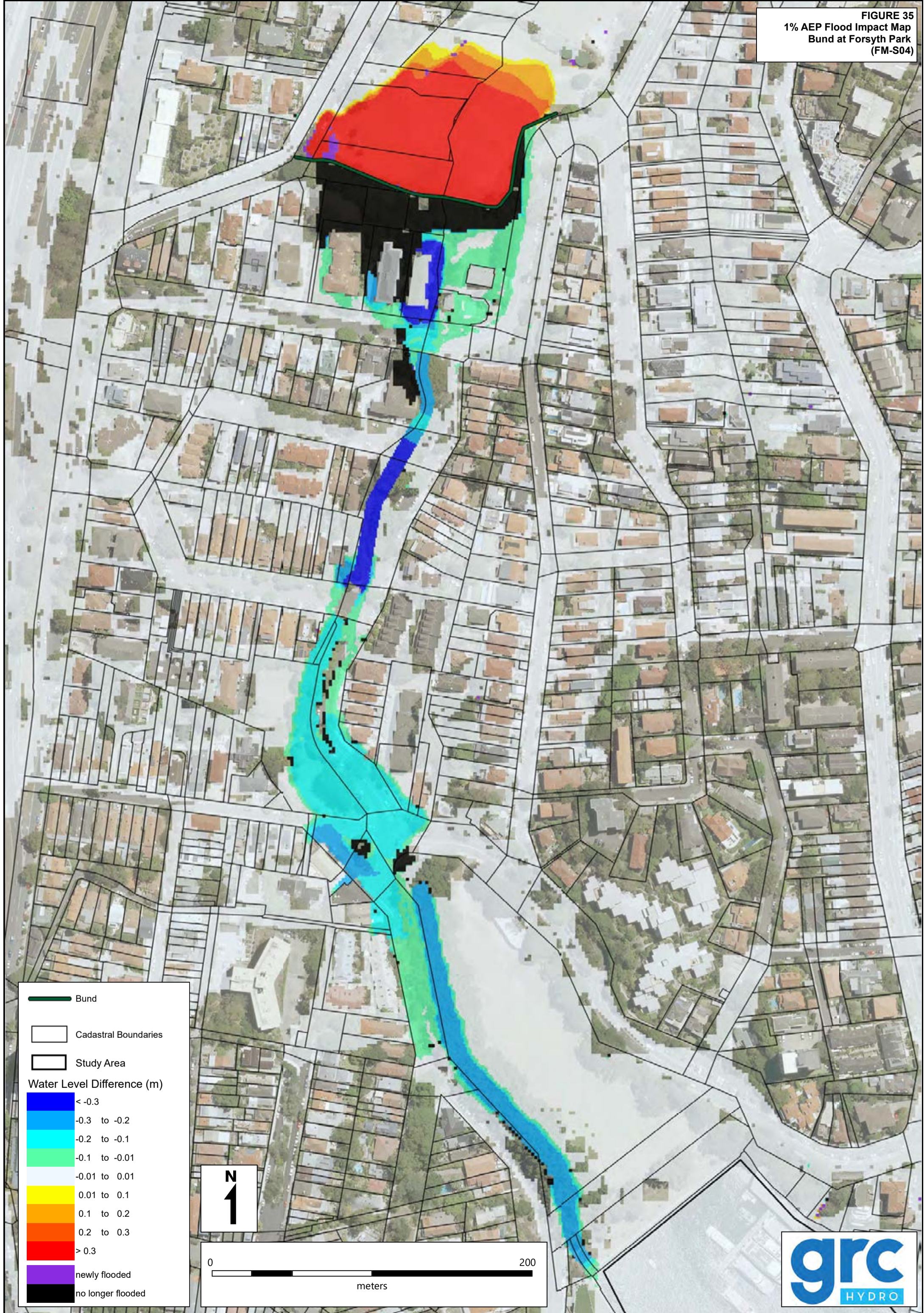




FIGURE 35  
1% AEP Flood Impact Map  
Bund at Forsyth Park  
(FM-S04)



**Bund**

**Cadastral Boundaries**

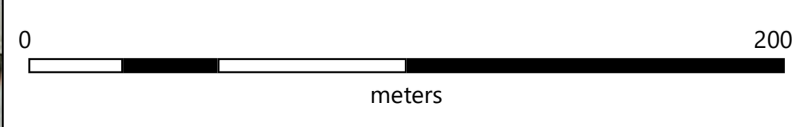
**Study Area**

**Water Level Difference (m)**

Dark Blue	< -0.3
Blue	-0.3 to -0.2
Cyan	-0.2 to -0.1
Light Cyan	-0.1 to -0.01
White	-0.01 to 0.01
Yellow	0.01 to 0.1
Orange	0.1 to 0.2
Red	0.2 to 0.3
Dark Red	> 0.3

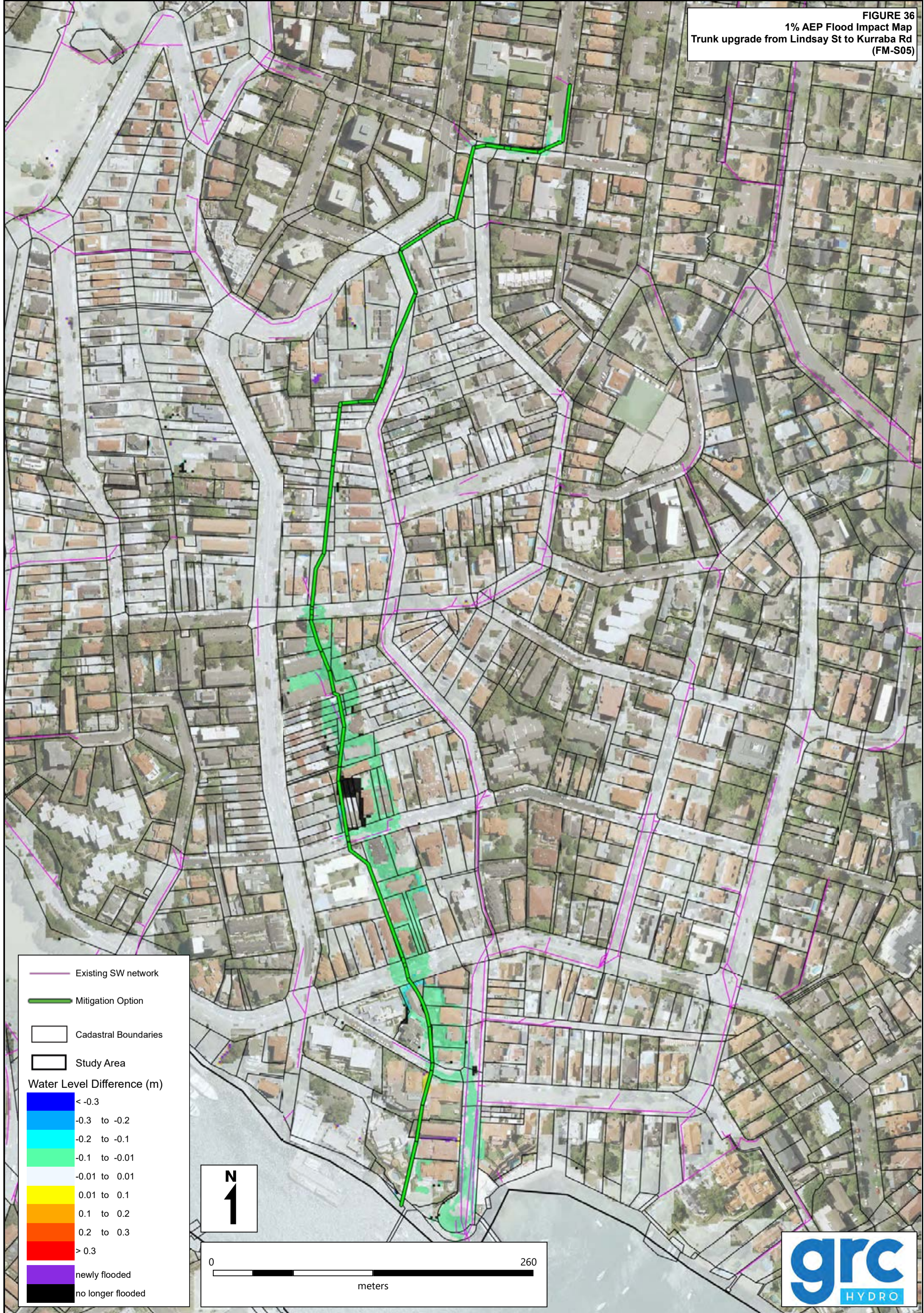
**newly flooded** (Purple)

**no longer flooded** (Black)





**FIGURE 36**  
**1% AEP Flood Impact Map**  
**Trunk upgrade from Lindsay St to Kurraba Rd**  
**(FM-S05)**



- Existing SW network
- Mitigation Option
- Cadastral Boundaries
- Study Area

**Water Level Difference (m)**

	< -0.3
	-0.3 to -0.2
	-0.2 to -0.1
	-0.1 to -0.01
	-0.01 to 0.01
	0.01 to 0.1
	0.1 to 0.2
	0.2 to 0.3
	> 0.3

- newly flooded
- no longer flooded

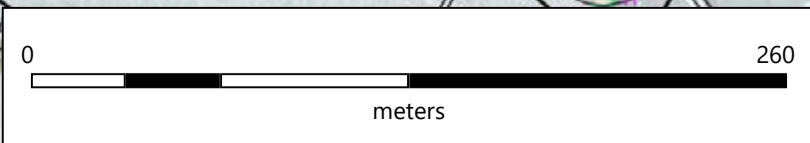




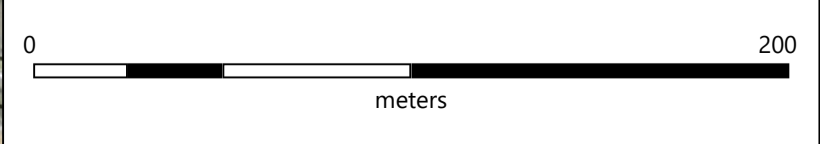
FIGURE 37  
1% AEP Flood Impact Map  
Trunk Upgrade from Yeo St to Bogota Ave  
(FM-E01)



- Mitigation Option
- Existing SW Network
- Cadastral Boundaries
- Study Area

Water Level Difference (m)

<math>< -0.3</math>
<math>-0.3 \text{ to } -0.2</math>
<math>-0.2 \text{ to } -0.1</math>
<math>-0.1 \text{ to } -0.01</math>
<math>-0.01 \text{ to } 0.01</math>
<math>0.01 \text{ to } 0.1</math>
<math>0.1 \text{ to } 0.2</math>
<math>0.2 \text{ to } 0.3</math>
<math>> 0.3</math>
newly flooded
no longer flooded



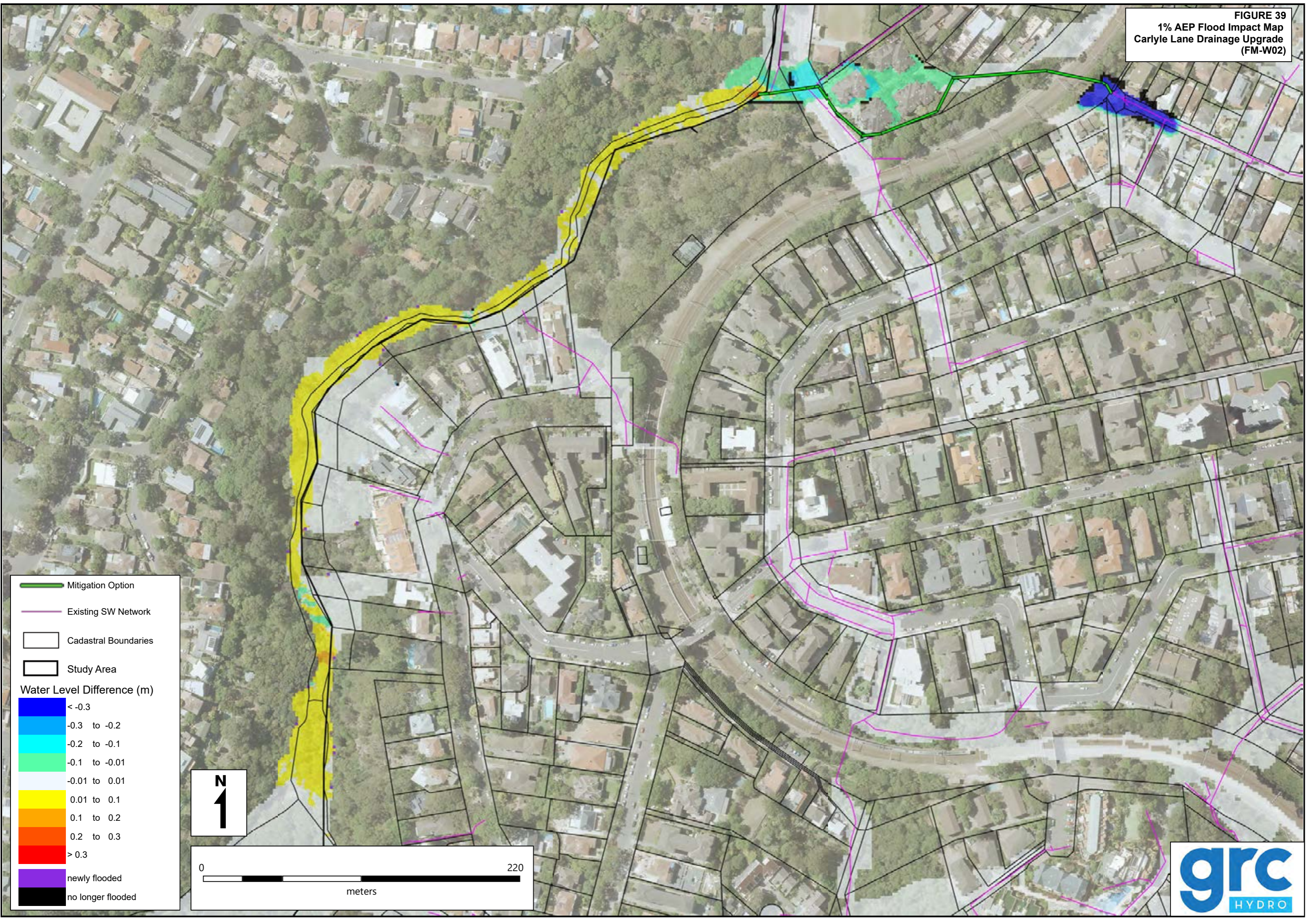


**FIGURE 38**  
**1% AEP Flood Impact Map**  
**Trunk Upgrade from Bank St to Waverton Park**  
**(FM-W01)**





FIGURE 39  
1% AEP Flood Impact Map  
Carlyle Lane Drainage Upgrade  
(FM-W02)



- Mitigation Option
- Existing SW Network
- Cadastral Boundaries
- Study Area

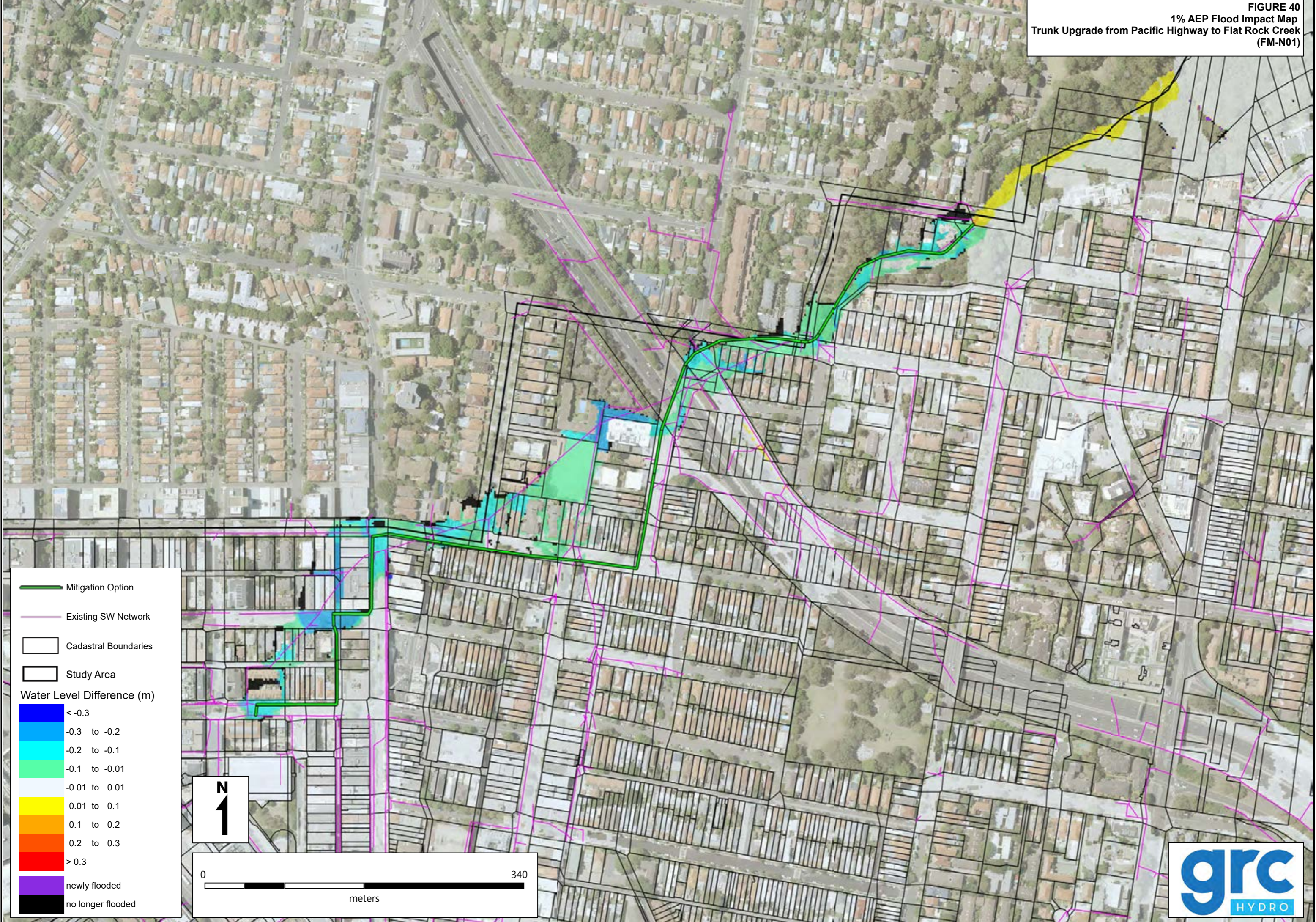
Water Level Difference (m)





- < -0.3
- 0.3 to -0.2
- 0.2 to -0.1
- 0.1 to -0.01
- 0.01 to 0.01
- 0.01 to 0.1
- 0.1 to 0.2
- 0.2 to 0.3
- > 0.3
- newly flooded
- no longer flooded
















**FIGURE 40**  
**1% AEP Flood Impact Map**  
**Trunk Upgrade from Pacific Highway to Flat Rock Creek**  
**(FM-N01)**



-  Mitigation Option
-  Existing SW Network
-  Cadastral Boundaries
-  Study Area

**Water Level Difference (m)**

-  < -0.3
-  -0.3 to -0.2
-  -0.2 to -0.1
-  -0.1 to -0.01
-  -0.01 to 0.01
-  0.01 to 0.1
-  0.1 to 0.2
-  0.2 to 0.3
-  > 0.3
-  newly flooded
-  no longer flooded

**N**



0 340

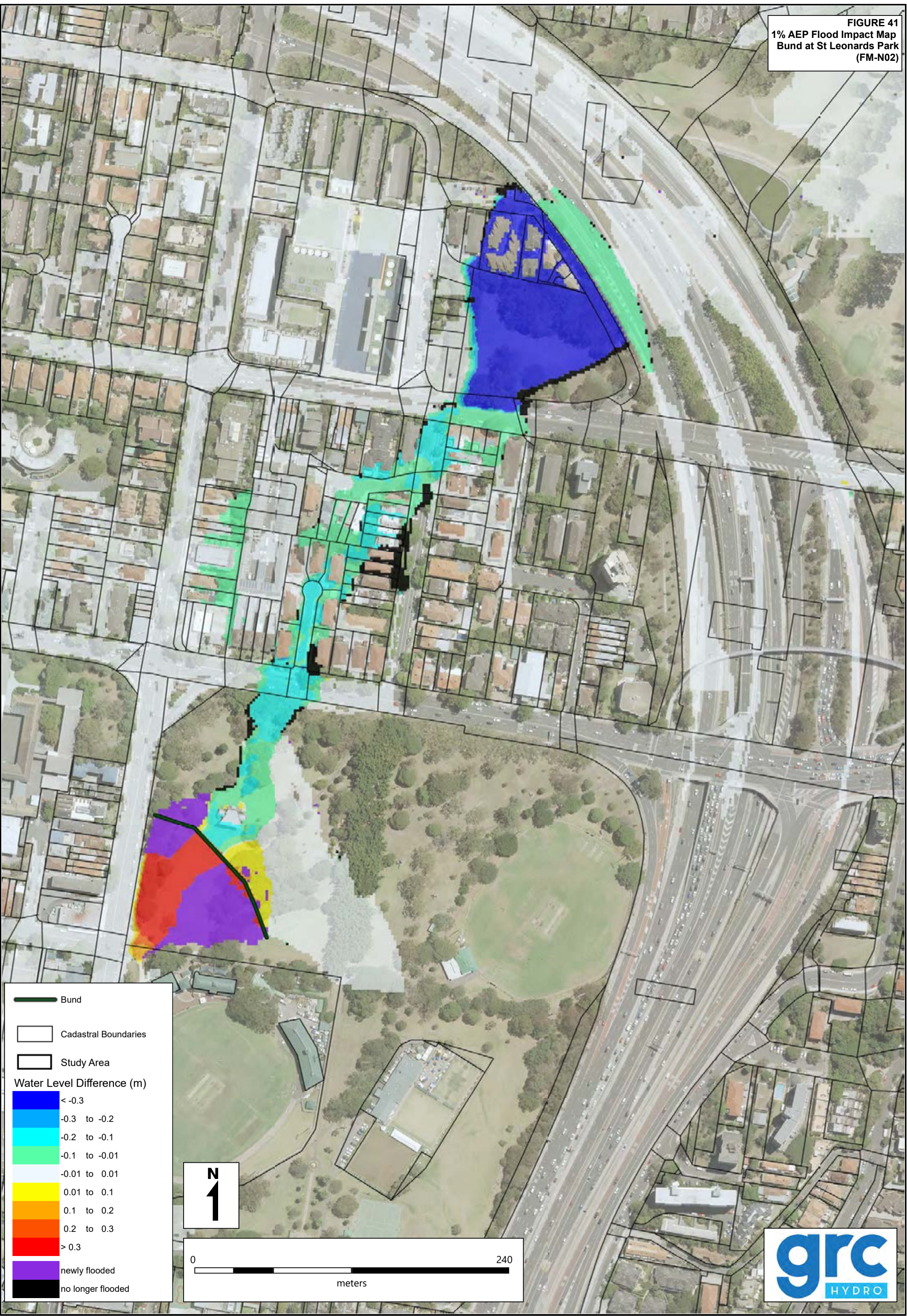
---

meters





FIGURE 41  
1% AEP Flood Impact Map  
Bund at St Leonards Park  
(FM-N02)



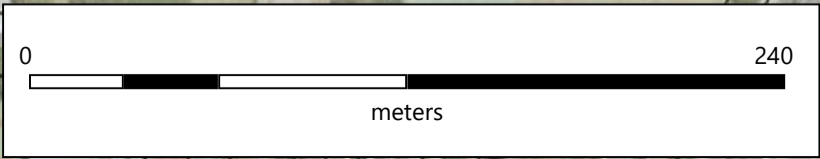
**Bund**

**Cadastral Boundaries**

**Study Area**

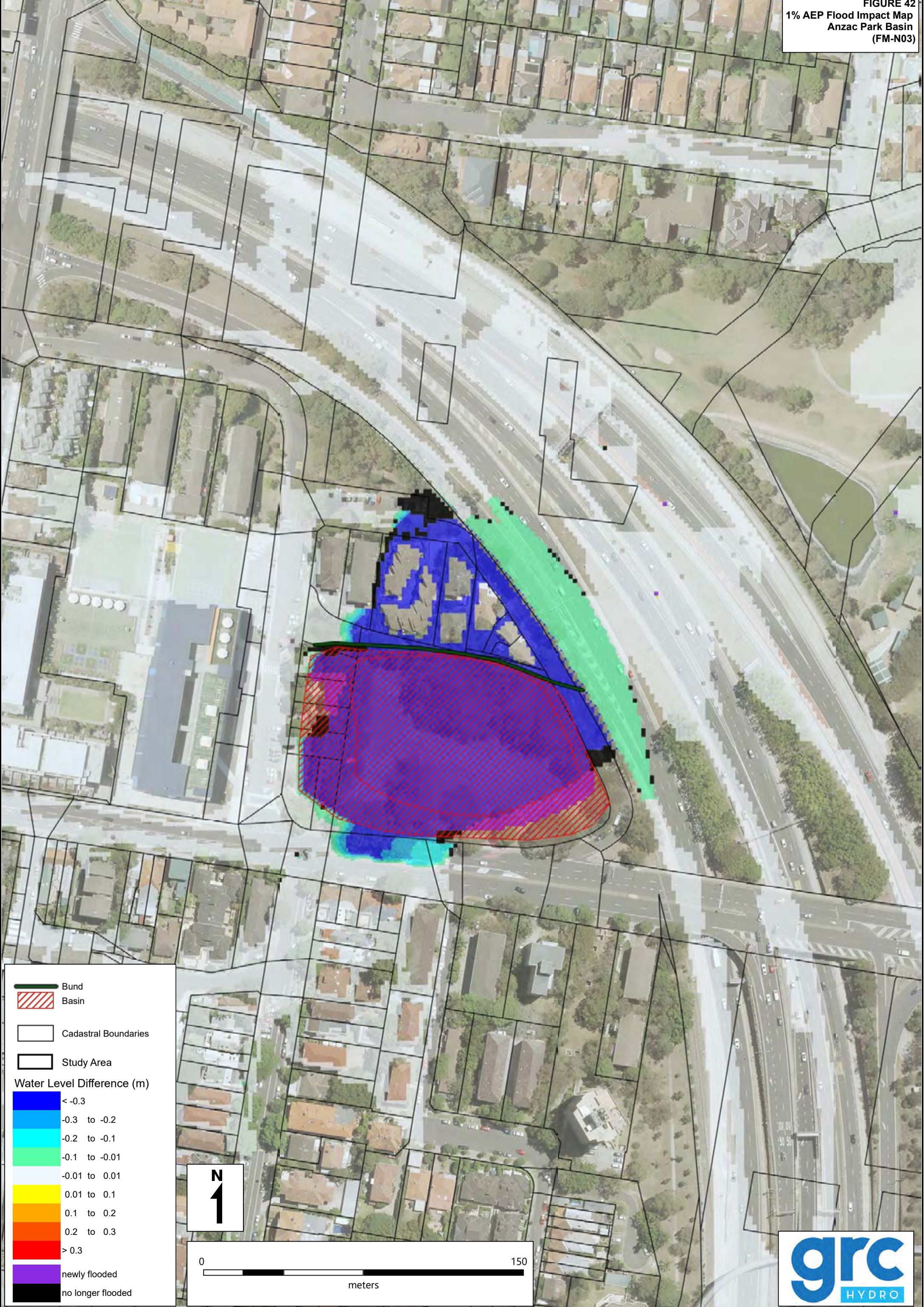
**Water Level Difference (m)**
















Blue	< -0.3
Light Blue	-0.3 to -0.2
Cyan	-0.2 to -0.1
Green	-0.1 to -0.01
White	-0.01 to 0.01
Yellow	0.01 to 0.1
Orange	0.1 to 0.2
Red	0.2 to 0.3
Dark Red	> 0.3
Purple	newly flooded
Black	no longer flooded

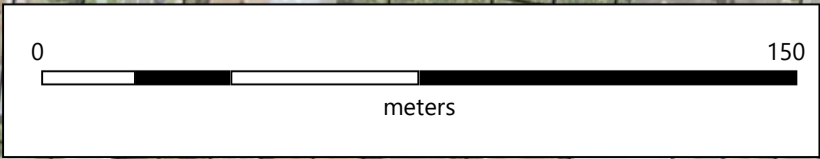




**FIGURE 42**  
**1% AEP Flood Impact Map**  
**Anzac Park Basin**  
**(FM-N03)**

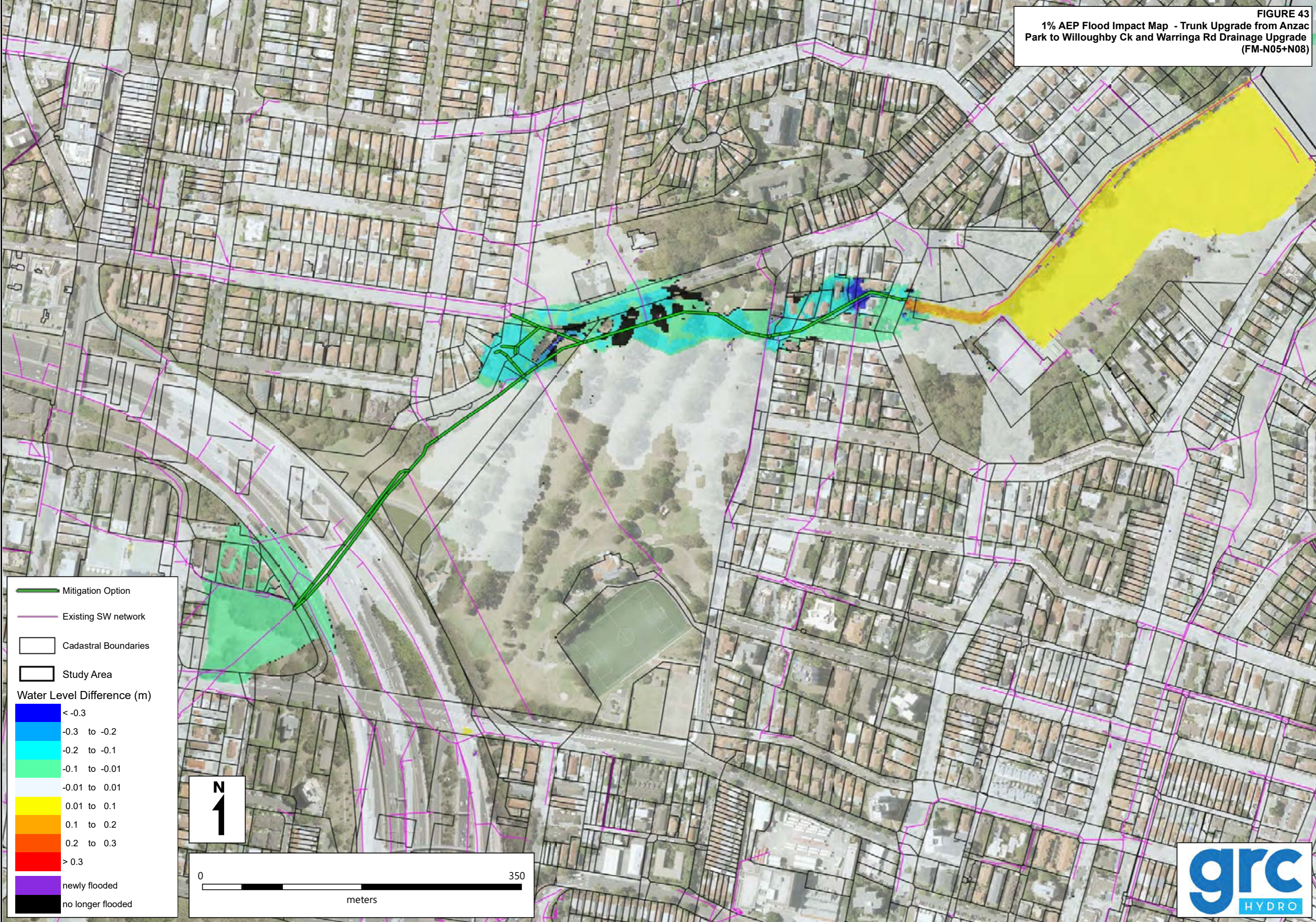






-  Bund
  -  Basin
  -  Cadastral Boundaries
  -  Study Area
- Water Level Difference (m)**
-  < -0.3
  -  -0.3 to -0.2
  -  -0.2 to -0.1
  -  -0.1 to -0.01
  -  -0.01 to 0.01
  -  0.01 to 0.1
  -  0.1 to 0.2
  -  0.2 to 0.3
  -  > 0.3
  -  newly flooded
  -  no longer flooded






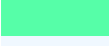









**FIGURE 43**  
1% AEP Flood Impact Map - Trunk Upgrade from Anzac Park to Willoughby Ck and Warringa Rd Drainage Upgrade (FM-N05+N08)

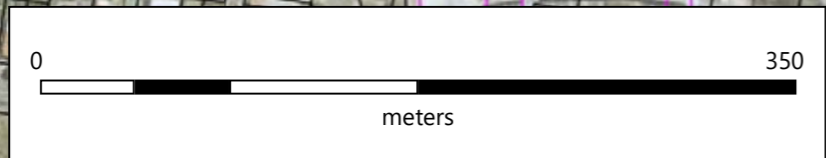


-  Mitigation Option
-  Existing SW network
-  Cadastral Boundaries
-  Study Area

**Water Level Difference (m)**

	< -0.3
	-0.3 to -0.2
	-0.2 to -0.1
	-0.1 to -0.01
	-0.01 to 0.01
	0.01 to 0.1
	0.1 to 0.2
	0.2 to 0.3
	> 0.3

-  newly flooded
-  no longer flooded



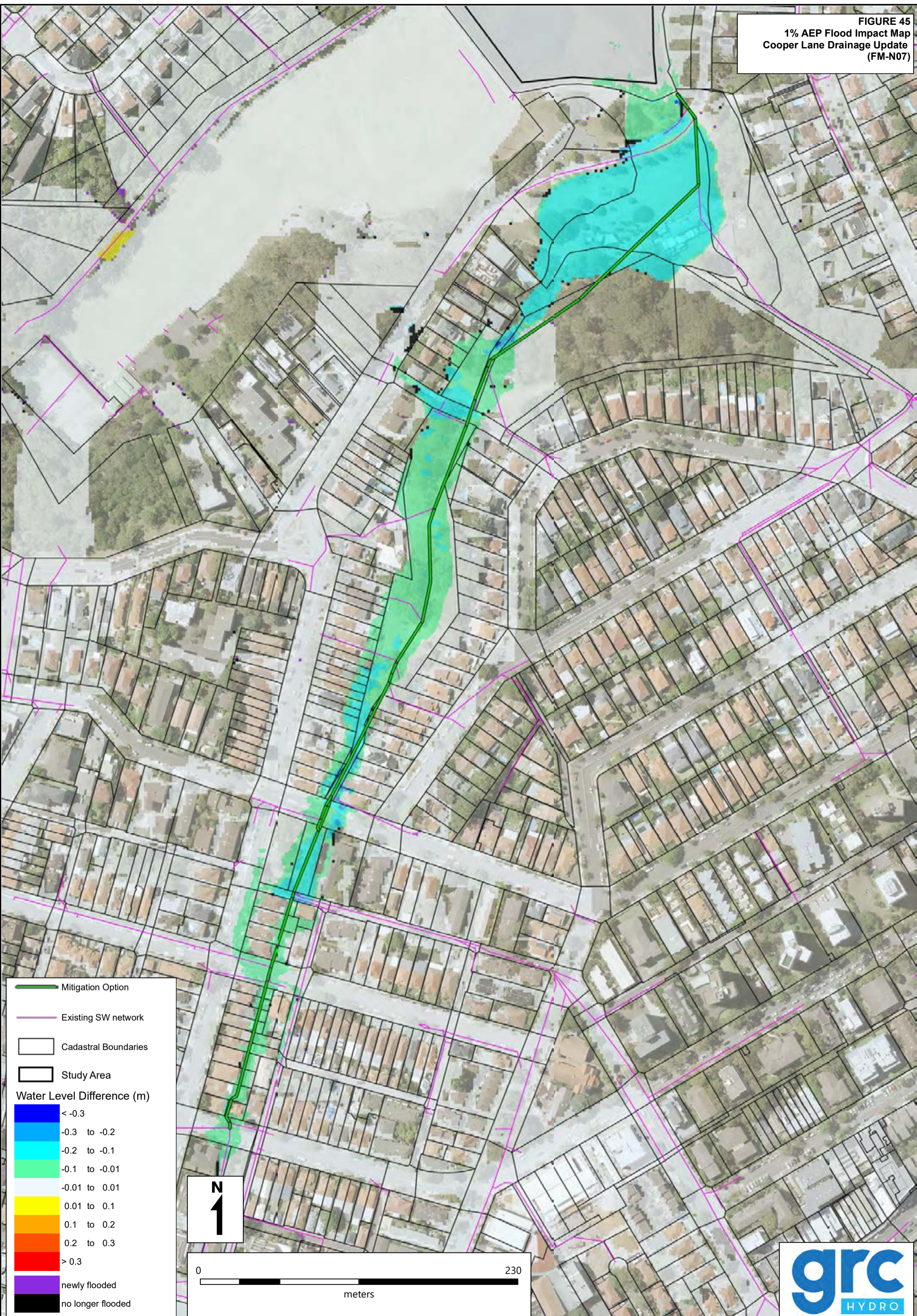


**FIGURE 44**  
**1% AEP Flood Impact Map**  
**Reynolds Street Drainage Update**  
**(FM-N06)**





**FIGURE 45**  
**1% AEP Flood Impact Map**  
**Cooper Lane Drainage Update**  
**(FM-N07)**






**FIGURE 46**  
**1% AEP Flood Impact Map**  
**Cassins Avenue Drainage Update**  
**(FM-N09)**







**FIGURE 47**  
**1% AEP Flood Impact Map**  
**Cammeray Golf Club Basin**  
**(FM-N11)**





 Basin


 Cadastral Boundaries


 Study Area


**Water Level Difference (m)**


 <math>< -0.3</math>


 <math>-0.3</math> to <math>-0.2</math>


 <math>-0.2</math> to <math>-0.1</math>


 <math>-0.1</math> to <math>-0.01</math>


 <math>-0.01</math> to <math>0.01</math>

 <math>0.01</math> to <math>0.1</math>

 <math>0.1</math> to <math>0.2</math>

 <math>0.2</math> to <math>0.3</math>

 newly flooded

 no longer flooded

