ATTACHMENT BOOKLET 3

ORDINARY COUNCIL MEETING

TUESDAY 18 DECEMBER 2018

NORTHERN BEACHES COUNCIL

Newport Flood Study

Draft Report for Public Exhibition

Volume 2 of 2: Figures

Revision 3
December 2018

Catchment Simulation Solutions

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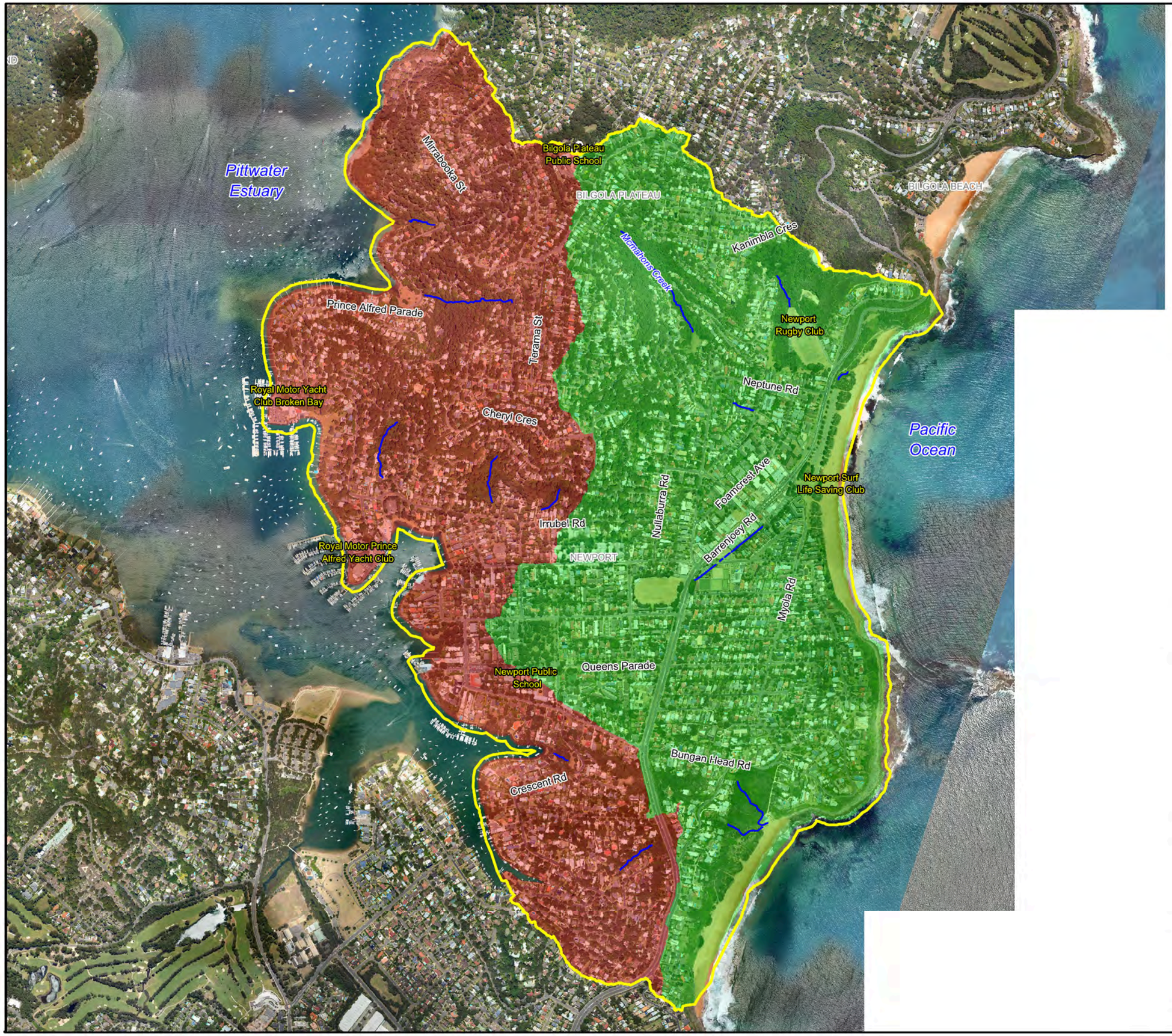

NORTHERN BEACHES COUNCIL

LEGEND

Newport Study Area

- Pittwater Estuary Catchment
- Pacific Ocean Catchment
- Watercourse

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:13,000 (at A3)

0 0.4 0.8

Km

Figure 1: Newport Study Area

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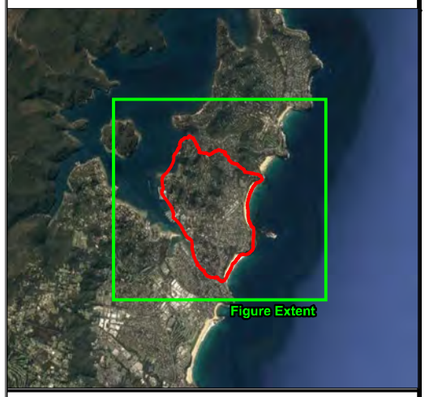
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig1 - Newport Study Area.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Cross Section Extracted from Mike 11 Model
- Stormwater Pipe
- Stormwater Pit
- Study Area Boundary
- Newport Beach Flood Study (2002) Area
- Pittwater Overland Flow Mapping and Flood Study (2013) 1% AEP Flood Extent
- 2015 Surveyed Flood Marks
- 2012 Surveyed Flood Marks

Notes:

Aerial photograph date: 2014

N W E S

Scale 1:10,000 (at A3)

0 0.25 0.5 Km

Figure 2: Extent of Available Information

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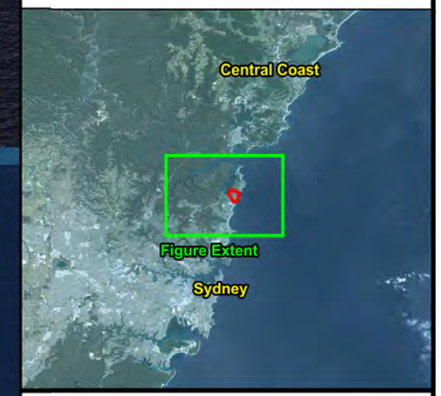
Sydney, NSW 2000

File Name: Fig2 - Extent of Available Information.wor

NORTHERN BEACHES COUNCIL



66146 - Broken Bay Nail Fitness Camp
66143 - Kuring-Gai Chase (West Head)
566041 - Great Mackeral
66128 - Palm Beach (Sunrise Road)
66083 - Palm Beach Coaster Retreat
Coasters Retreat
566079 - Whale Beach Road
66140 - Cottage Point (Nottings)
Ku-ring-gai Chase National Park
66053 - Avalon (Wollstonecraft Ave)
66079 - Avalon (Palmgrove Rd)
566172 - Avalon Bowling Club (Formerly Whale Beach)
Scotland Island
566145 - Avalon at Avalon Golf Course
Pittwater Estuary
66045 - Newport Bowling Club
566188 - Newport
66183 - Ingleside (Animal Welfare League NSW)
566146 - Mona Vale at Pittwater High School
Duffys Forest
66077 - Terrey Hills
566120 - Terrey Hills (Terrigal Road)
66123 - Ingleside
66141 - Mona Vale Golf Club
Pacific Ocean
66059 - Terrey Hills Aws
566051 - Warriewood STP
Warriewood
213421 - Narrabeen Lagoon at Middle Creek
566136 - Narrabeen Lagoon
66044 - Cromer Golf Club
566150 - Cromer
566071 - Belrose Bowling Club
566068 - Dee Why Bowling Club
66126 - Collaroy (Long Reef Golf Club)

LEGEND

Gauge ID ▲ Gauge Name	BOM Daily Rainfall Gauge
Gauge ID ■ Gauge Name	Sydney Water Rainfall Gauge
Gauge ID ● Gauge Name	Manly Hydraulics Laboratory Rainfall Gauge
Gauge ID ◆ Gauge Name	Manly Hydraulics Laboratory Stream and Rainfall Gauge
	Study Area Boundary

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:75,000 (at A3)

0 2.0 4.0 Km

Figure 3: Location of Rainfall Gauges

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Sydney, NSW 2000

File Name: Fig3 - Location of Rainfall Gauges .wor

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LEGEND

DEM (mAHD)

	<= 0		20
	2		30
	4		40
	6		50
	8		100
	10		>= 150

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:13,000 (at A3)

0 0.4 0.8

Km

Figure 4: Digital Elevation Model

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Sydney, NSW 2000

File Name: Fig4 - Newport DEM.wor

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LEGEND

Material

- Building
- Water
- Trees
- Grass
- Impervious
- Sand

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:13,000 (at A3)

0 0.4 0.8

Km

Figure 5: Remote Sensing Land Use Map

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Sydney, NSW 2000

File Name: Fig5 - Remote Sensing.wor

NORTHERN BEACHES COUNCIL

LEGEND

Surveyed Data

- Stormwater Pit
- Channel Cross Section
- Culvert
- Bridge

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:8,000 (at A3)

0 0.25 0.5

Km

Figure 6: Survey Data Collected for the Study

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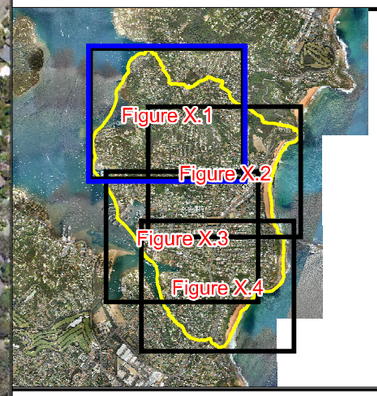
Sydney, NSW 2000

File Name: Fig6 - Data Collected for Study .wor

NORTHERN BEACHES COUNCIL



LEGEND

- 2D Domain
- 1D Domain
- Culvert
- Bridge
- Stormwater Pipe
- Stormwater Inlet
- Junction Pit

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,500 (at A3)

0 0.15 0.3
Km

Figure 7.1: TUFLOW Model Layout

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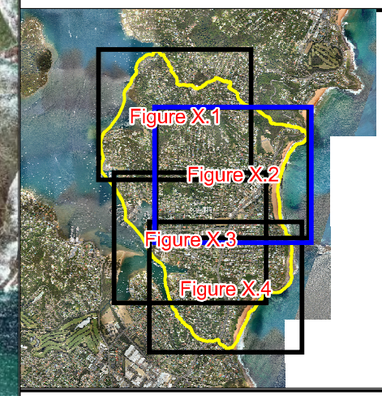
Sydney, NSW 2000

File Name: Fig7.1 - TUFLOW Model Layout.wor

NORTHERN BEACHES COUNCIL



LEGEND

- 2D Domain
- 1D Domain
- Culvert
- Bridge
- Stormwater Pipe
- Stormwater Inlet
- Junction Pit

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,500 (at A3)

0 0.15 0.3

Km

Figure 7.2: TUFLOW Model Layout

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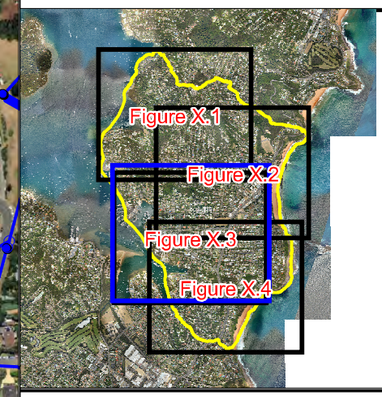
Catchment Simulation Solutions

Suite 2.01, 210 George St

Sydney, NSW 2000

File Name: Fig7.2 - TUFLOW Model Layout.wor

NORTHERN BEACHES COUNCIL



Irrubel Rd
Nullaburra Rd
Foamcrest Ave
Barrenjoey Rd
Myola Rd
Queens Parade
Bungan Head Rd
Crescent Rd

LEGEND

- 2D Domain
- 1D Domain
- Culvert
- Bridge
- Stormwater Pipe
- Stormwater Inlet
- Junction Pit

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,500 (at A3)

0 0.15 0.3

Km

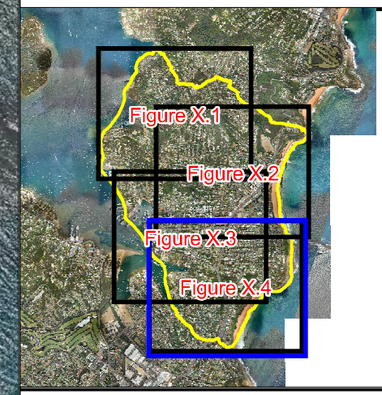
Figure 7.3: TUFLOW Model Layout

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig7.3 - TUFLOW Model Layout.wor

NORTHERN BEACHES COUNCIL



Queens Parade

Bungan Head Rd

Crescent Rd

LEGEND

- 2D Domain
- 1D Domain
- Culvert
- Bridge
- Stormwater Pipe
- Stormwater Inlet
- Junction Pit

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,500 (at A3)

0 0.15 0.3

Km

Figure 7.4: TUFLOW Model Layout

Prepared By:

Catchment Simulation Solutions

Suite 2.01, 210 George St

Sydney, NSW 2000

File Name: Fig7.4 - TUFLOW Model Layout.wor

66053 - Avalon (Wollstonecraft Ave) - 52 mm

55

Pittwater Estuary

566172 - Avalon Bowling Club (Formerly Whale Beach) 65 mm

60

70

73

66079 - Avalon (Palmgrove Rd) 76 mm

566145 - Avalon at Avalon Golf Course 70 mm

65

Pacific Ocean

566146 - Mona Vale at Pittwater High School 78 mm

80

66141 - Mona Vale Golf Club 85 mm

NORTHERN BEACHES COUNCIL

LEGEND

- Newport Study Area
- Rainfall Isohyet (mm)
- Gauge Number - Name Rainfall (mm)

Rainfall Depth (mm)

- 50
- 60
- 70
- 80
- 90

Notes:

Aerial photograph date: 2014

N

W E

S

Scale 1:22,000 (at A3)

0 0.5 1.0

Km

Figure 8: Isohyet Map for February 2012 Storm

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Catchment Simulation Solutions

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Sydney, NSW 2000

File Name: Fig8 - Isohyet Map for Feb 2012 Storm.wor

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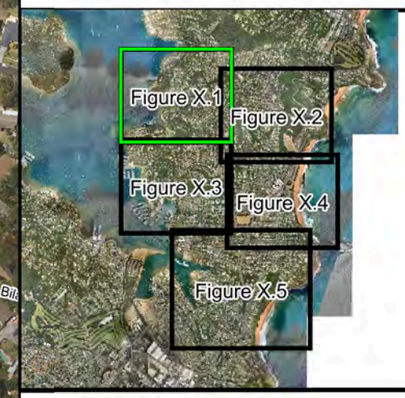

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 9.1: Simulated Floodwater Depths for 2012 Flood

Prepared By:

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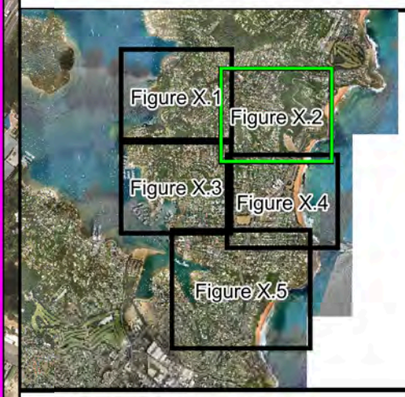
Sydney, NSW 2000

File Name: Fig9.1 - Depths & Levels for 2012 Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 9.2: Simulated Floodwater Depths for 2012 Flood

Prepared By:

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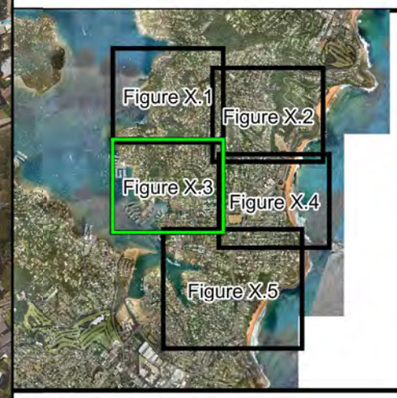
Sydney, NSW 2000

File Name: Fig9.2 - Depths & Levels for 2012 Flood.wor

Bilambee Avenue
Bilgurra Avenue
Billarry Avenue
Plateau Road
Laguna Road
The Outlook
Daly Street
Mariposa Road
Kanimbla Crescent
Monterey Road
Fanview Road
Hillslope Road
Sybil Street
Hillside Road
Howell Close
Granview Drive
Seaview Avenue
Neptune Road
Barrenjoey Road
Burke Street
Aitunga Road
Newport Rugby Club
Refer to Inset
8.81 8.9

Inset
13.51 13.5
13.35 13.46
13.33 13.28
12.94 12.92
12.53 12.5

NORTHERN BEACHES COUNCIL



LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

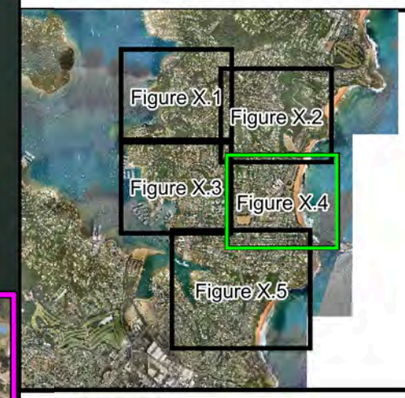
Figure 9.3: Simulated Floodwater Depths for 2012 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig9.3 - Depths & Levels for 2012 Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Refer to Inset

Newport Surf Life Saving Club

Inset

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 9.4: Simulated Floodwater Depths for 2012 Flood

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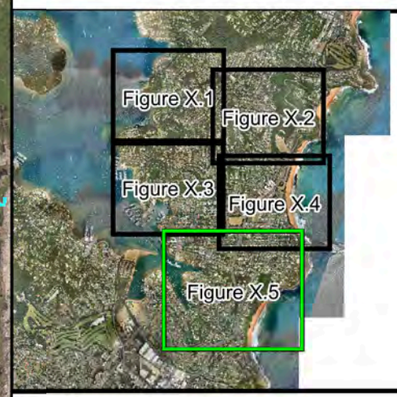
Sydney, NSW 2000

File Name: Fig9.4 - Depths & Levels for 2012 Flood.wor

NORTHERN BEACHES COUNCIL



Newport Public School

King Street
1 Street
Bishop Street
Hollywood Road
Stanley Street
Kalinya Street
Queens Parade
Queens Parade East
Livingstone Place
Melaleuca Street
Lovering Place
Walworth Court
Walworth Avenue
Oceania Crescent
Gertrude Avenue
Beaconsfield Street
Bungan Head Road
Myola Road
Wirruna Crescent
Crescent Road
The Avenue
Karloo Parade

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 9.5: Simulated Floodwater Depths for 2012 Flood

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Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig9.5 - Depths & Levels for 2012 Flood.wor

NORTHERN BEACHES COUNCIL

Pittwater Estuary

566172 - Avalon Bowling Club (Formerly Whale Beach) 62 mm

566145 - Avalon at Avalon Golf Course 48 mm

566146 - Mona Vale at Pittwater High School 40 mm

66141 - Mona Vale Golf Club 27 mm

Pacific Ocean

60

55

50

45

40

35

30

LEGEND

- Newport Study Area
- Rainfall Isohyet (mm)
- Gauge Number - Name Rainfall (mm)

Rainfall Depth (mm)

- 20
- 30
- 40
- 50
- 60

Notes:

Aerial photograph date: 2014

N W E S

Scale 1:22,000 (at A3)

0 0.5 1.0 Km

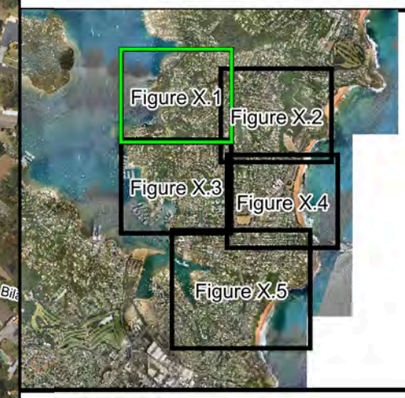
Figure 10: Isohyet Map for November 2015 Storm

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig10 - Isohyet Map for Nov 2015 Storm.wor

NORTHERN BEACHES COUNCIL



LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 11.1: Simulated Floodwater Depths for 2015 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig11.1 - Depths & Levels for 2015 Flood.wor

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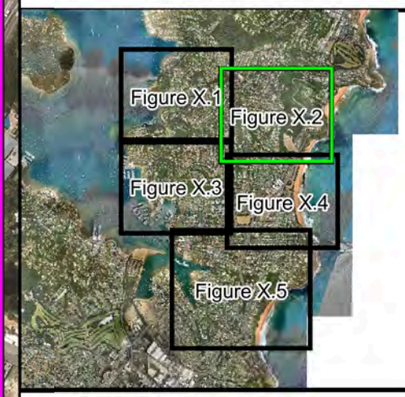

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level ▲ Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth ● Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 11.2: Simulated Floodwater Depths for 2015 Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig11.2 - Depths & Levels for 2015 Flood.wor

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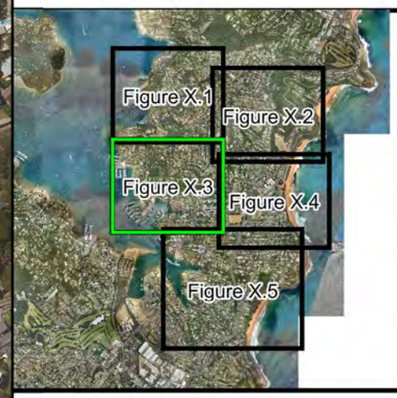

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 11.3: Simulated Floodwater Depths for 2015 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig11.3 - Depths & Levels for 2015 Flood.wor

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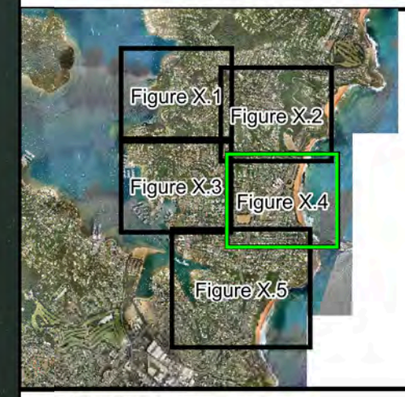

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 11.4: Simulated Floodwater Depths for 2015 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig11.4 - Depths & Levels for 2015 Flood.wor

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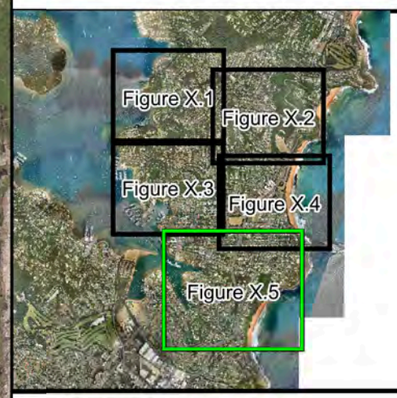


LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

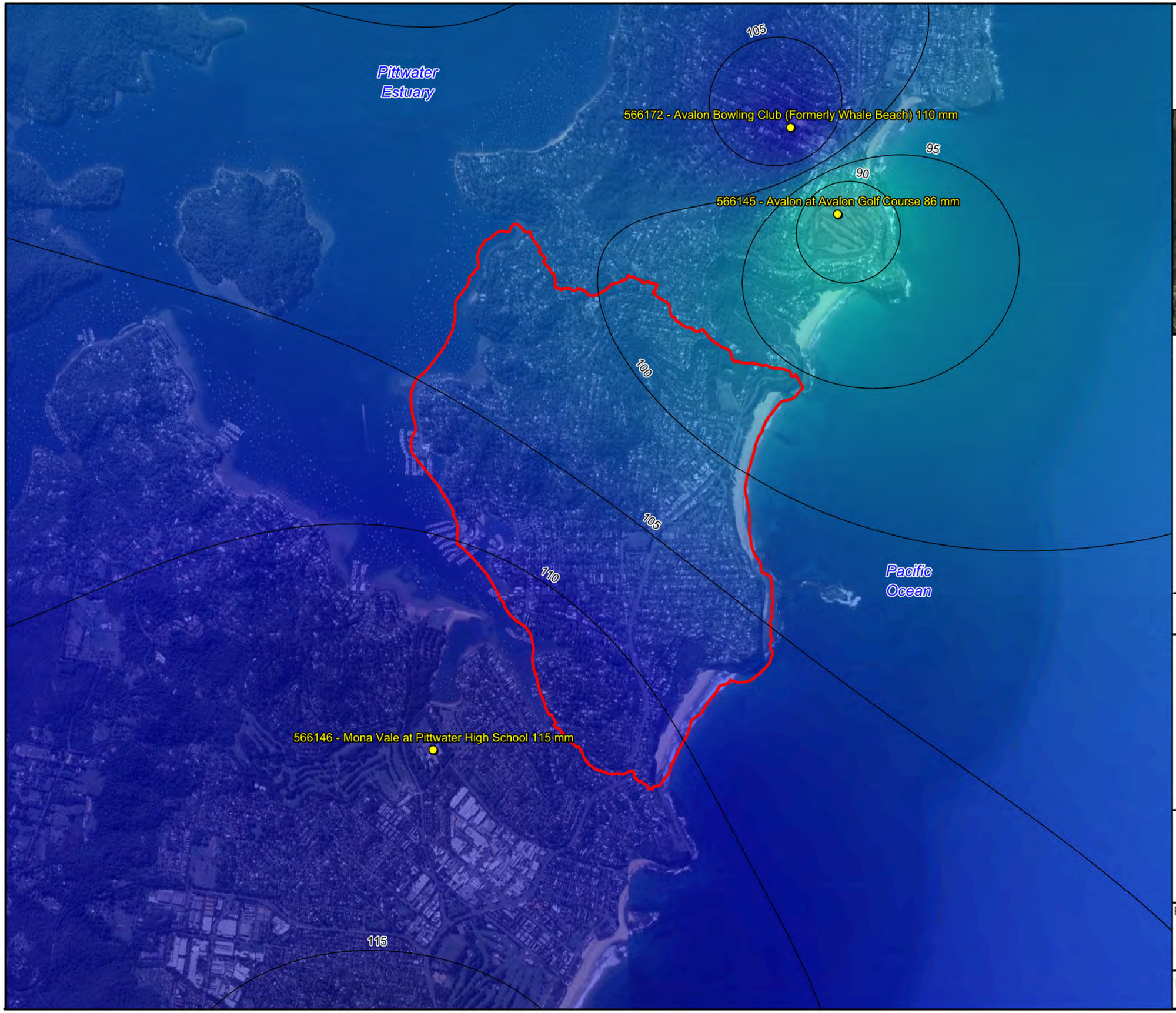
0 0.15 0.3 Km

Figure 11.5: Simulated Floodwater Depths for 2015 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig11.5 - Depths & Levels for 2015 Flood.wor



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LEGEND

- Newport Study Area
- Rainfall Isohyet (mm)
- Gauge Number - Name Rainfall (mm)

Rainfall Depth (mm)

- 80
- 90
- 100
- 110
- 120

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:22,000 (at A3)

0 0.5 1.0 Km

Figure 12: Isohyet Map for June 2016 Storm

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig12 - Isohyet Map for June 2016 Storm.wor

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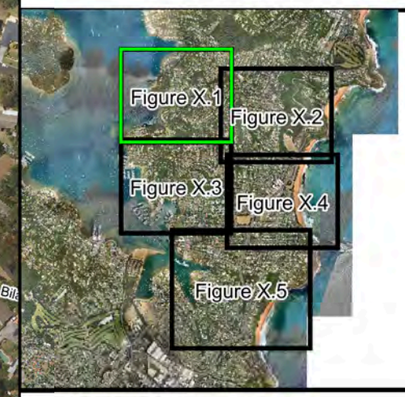

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 13.1: Simulated Floodwater Depths for 2016 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.1 - Depths & Levels for 2016 Flood.wor

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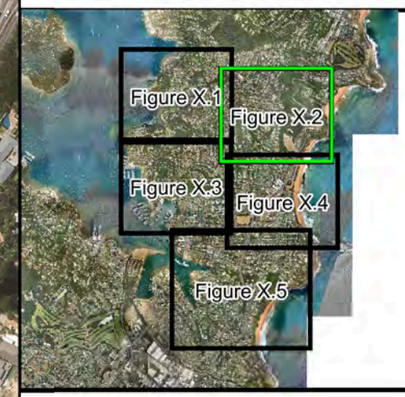

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 13.2: Simulated Floodwater Depths for 2016 Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.2 - Depths & Levels for 2016 Flood.wor

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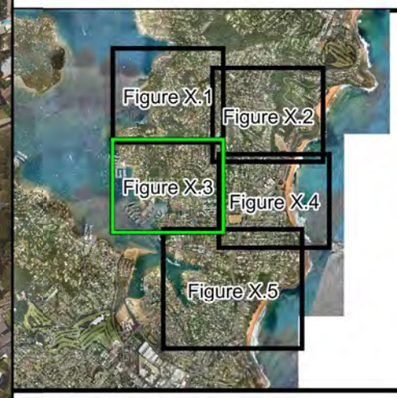

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 13.3: Simulated Floodwater Depths for 2016 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.3 - Depths & Levels for 2016 Flood.wor

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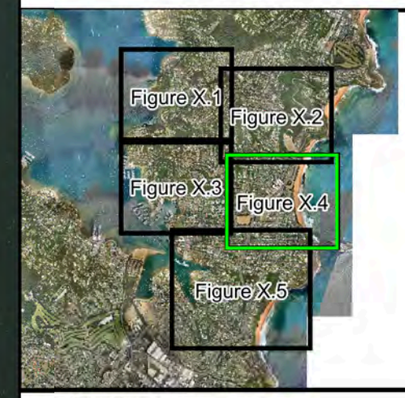

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level ▲ Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth ● Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 13.4: Simulated Floodwater Depths for 2016 Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.4 - Depths & Levels for 2016 Flood.wor

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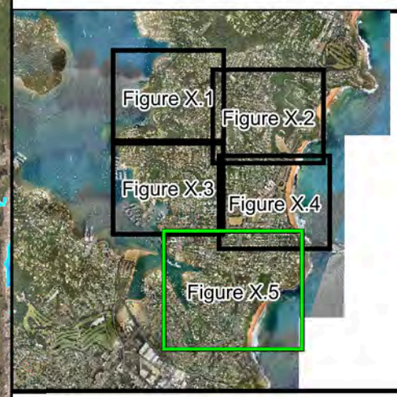

Newport Public School

0.2 0.19

0.04 0.04

0.076 0.1

King Street
1 Street
Bishop Street
Queens Parade
Hollywood Road
Stanley Street
Queens Parade East
Kalinya Street
Livingstone Place
Melaleuca Street
Lovering Place
Walworth Court
Walworth Avenue
Oceania Crescent
Gertrude Avenue
Beaconsfield Street
Bungan Head Road
Myola Road
Wirruna Crescent
Crescent Road
The Avenue
Karloo Parade

LEGEND

Depth (m)

- 0.15
- 0.20
- 0.30
- 0.50
- 1.00
- 2.00

Surveyed Flood Mark

Surveyed Flood Level — Simulated Flood Level

Anecdotal Water Depth

Reported Flood Depth — Simulated Flood Depth

Notes:

Water depths less than 0.15m not displayed.
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3 Km

Figure 13.5: Simulated Floodwater Depths for 2016 Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig13.5 - Depths & Levels for 2016 Flood.wor

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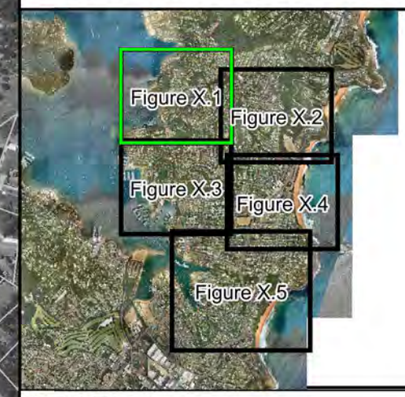

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 14.1: Peak Floodwater Depths for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.1 - Depths for 20%AEP Flood.wor

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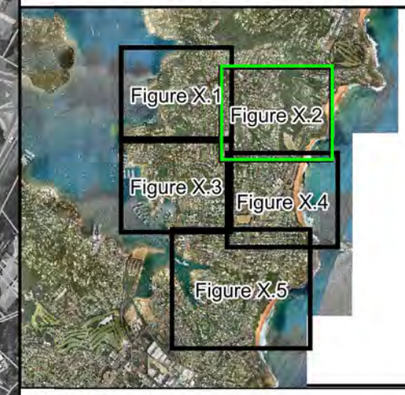

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 14.2:
Peak Floodwater Depths for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.2 - Depths for 20%AEP Flood.wor

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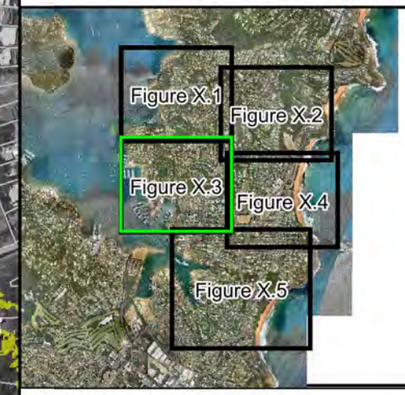

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 14.3:
Peak Floodwater Depths for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.3 - Depths for 20%AEP Flood.wor

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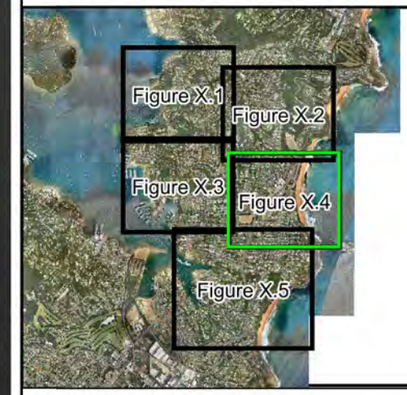

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 14.4: Peak Floodwater Depths for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.4 - Depths for 20%AEP Flood.wor

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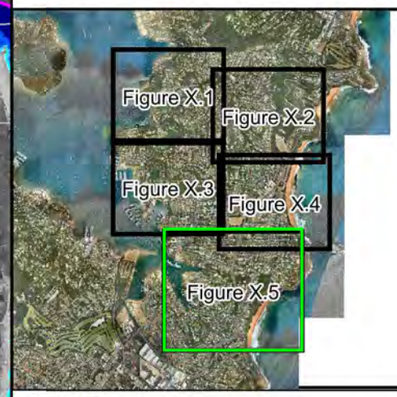

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 14.5:
Peak Floodwater Depths for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig14.5 - Depths for 20%AEP Flood.wor

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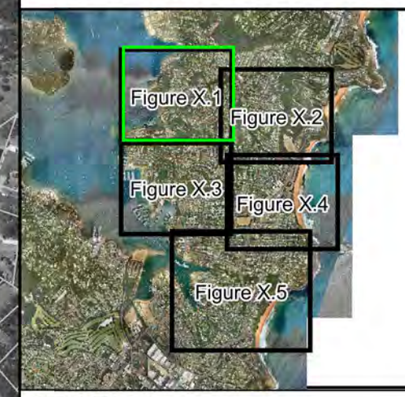

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 15.1: Peak Floodwater Depths for the 10% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.1 - Depths for 10%AEP Flood.wor

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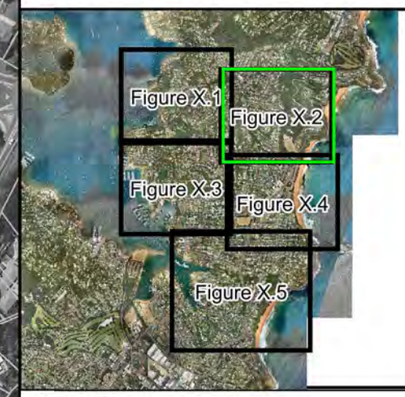

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 15.2: Peak Floodwater Depths for the 10% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.2 - Depths for 10%AEP Flood.wor

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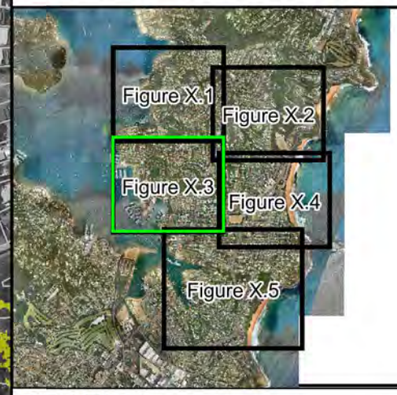

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 15.3: Peak Floodwater Depths for the 10% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.3 - Depths for 10%AEP Flood.wor

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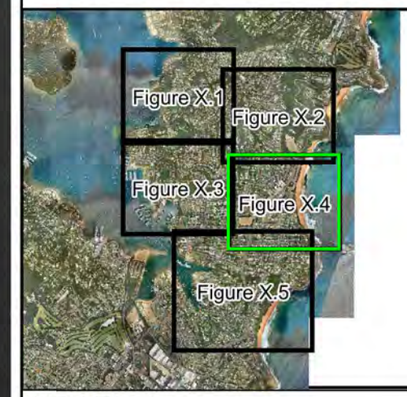

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 15.4: Peak Floodwater Depths for the 10% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.4 - Depths for 10%AEP Flood.wor

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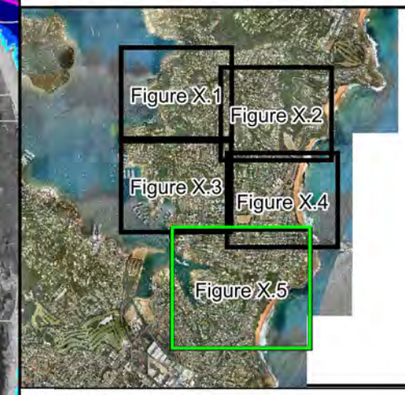

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 15.5:
Peak Floodwater Depths for the 10% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig15.5 - Depths for 10%AEP Flood.wor

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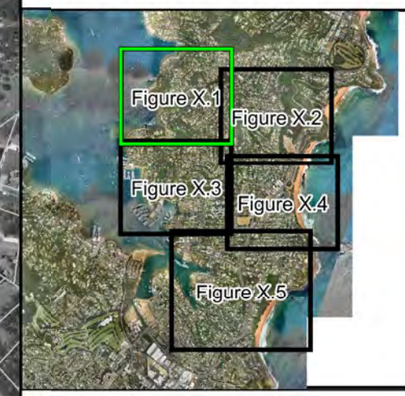

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 16.1:
Peak Floodwater Depths for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.1 - Depths for 5%AEP Flood.wor

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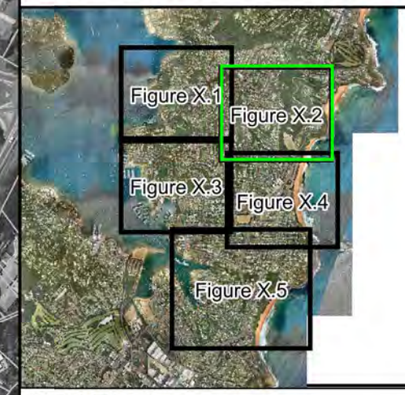

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 16.2: Peak Floodwater Depths for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.2 - Depths for 5%AEP Flood.wor

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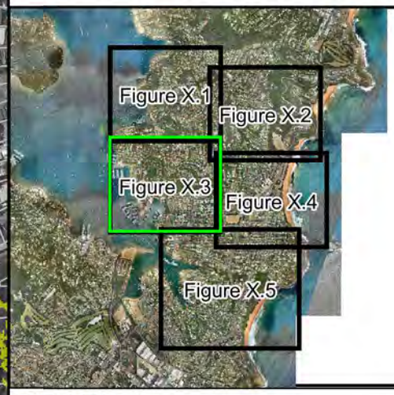

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 16.3: Peak Floodwater Depths for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.3 - Depths for 5%AEP Flood.wor

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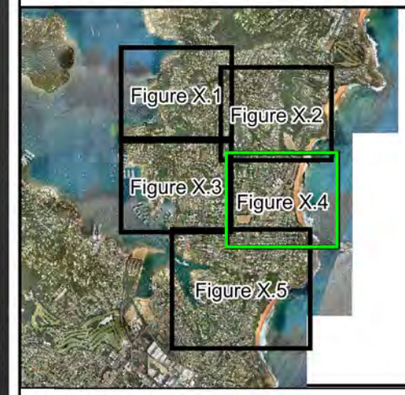

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 16.4: Peak Floodwater Depths for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.4 - Depths for 5%AEP Flood.wor

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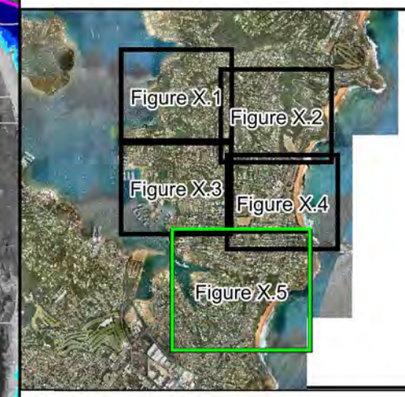


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

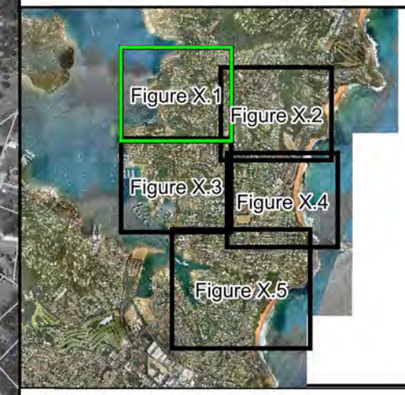
Km

Figure 16.5:
Peak Floodwater Depths for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig16.5 - Depths for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 17.1: Peak Floodwater Depths for the 2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig17.1 - Depths for 2%AEP Flood.wor

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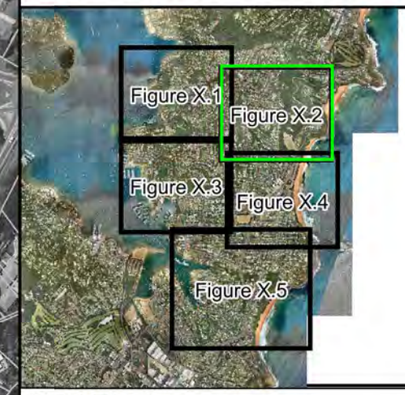

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 17.2: Peak Floodwater Depths for the 2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig17.2 - Depths for 2%AEP Flood.wor

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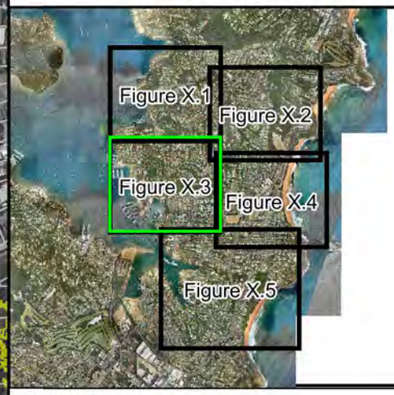

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
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S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 17.3: Peak Floodwater Depths for the 2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig17.3 - Depths for 2%AEP Flood.wor

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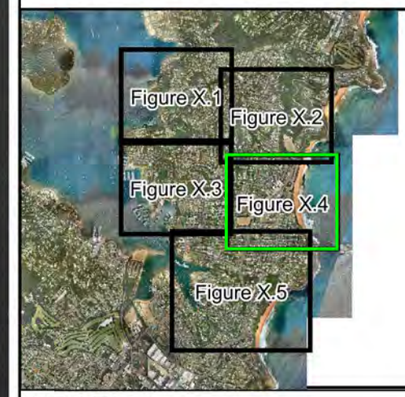

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
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Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 17.4: Peak Floodwater Depths for the 2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig17.4 - Depths for 2%AEP Flood.wor

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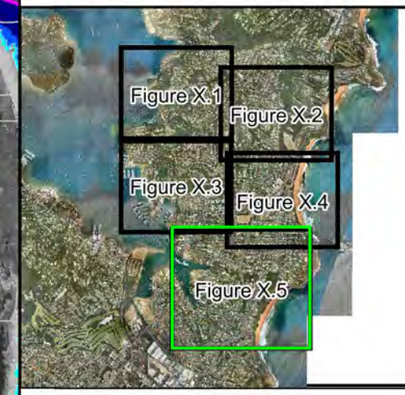

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 17.5:
Peak Floodwater Depths for the 2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig17.5 - Depths for 2%AEP Flood.wor

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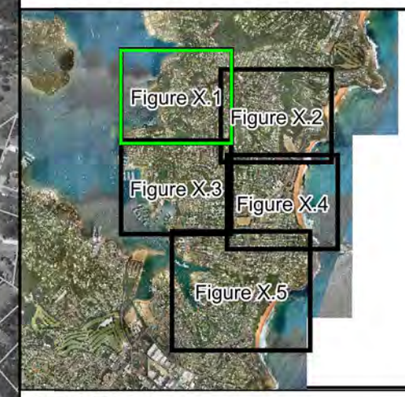

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

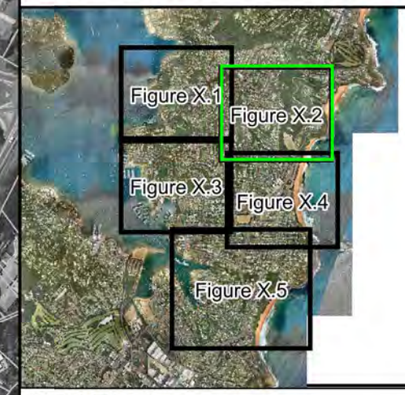
Figure 18.1: Peak Floodwater Depths for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.1 - Depths for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
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Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 18.2:
Peak Floodwater Depths for the 1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.2 - Depths for 1%AEP Flood.wor

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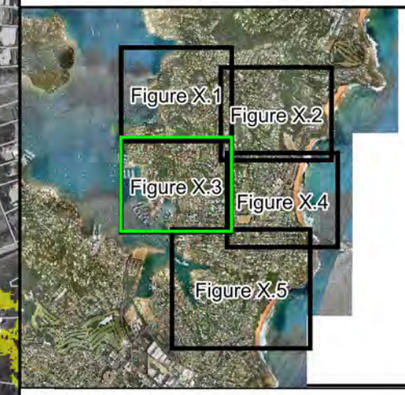

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
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S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 18.3: Peak Floodwater Depths for the 1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.3 - Depths for 1%AEP Flood.wor

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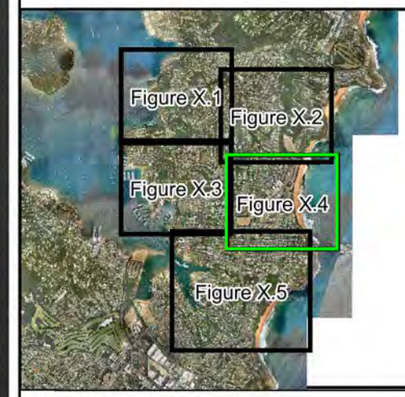

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
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Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 18.4: Peak Floodwater Depths for the 1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.4 - Depths for 1%AEP Flood.wor

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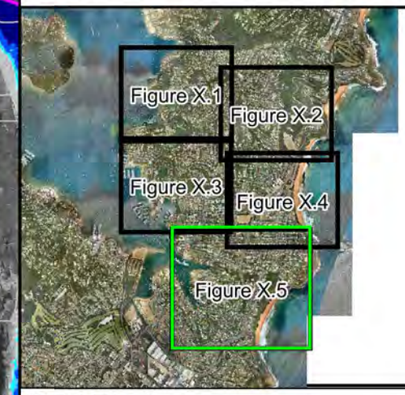

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 18.5: Peak Floodwater Depths for the 1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig18.5 - Depths for 1%AEP Flood.wor

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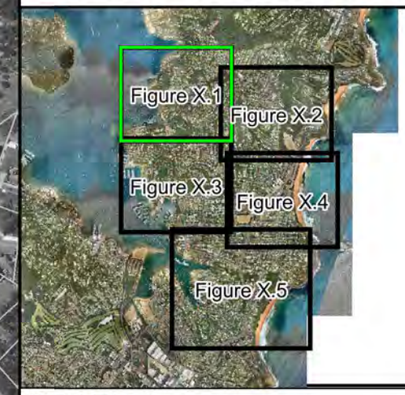

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 19.1: Peak Floodwater Depths for the 0.5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig19.1 - Depths for 0.5%AEP Flood.wor

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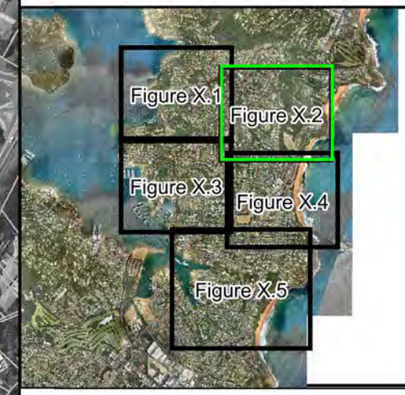

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 19.2: Peak Floodwater Depths for the 0.5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig19.2 - Depths for 0.5%AEP Flood.wor

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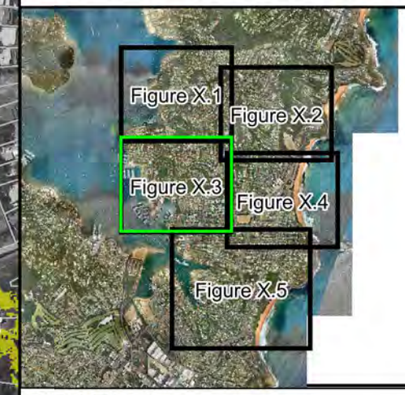

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 19.3: Peak Floodwater Depths for the 0.5% AEP Flood

Prepared By:

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Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig19.3 - Depths for 0.5%AEP Flood.wor

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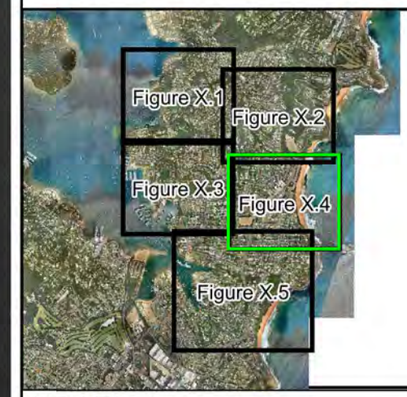

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 19.4: Peak Floodwater Depths for the 0.5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig19.4 - Depths for 0.5%AEP Flood.wor

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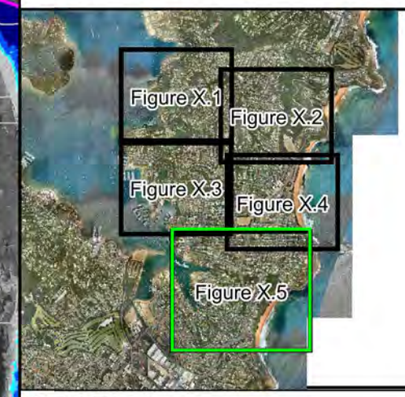

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 19.5:
Peak Floodwater Depths for the 0.5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig19.5 - Depths for 0.5%AEP Flood.wor

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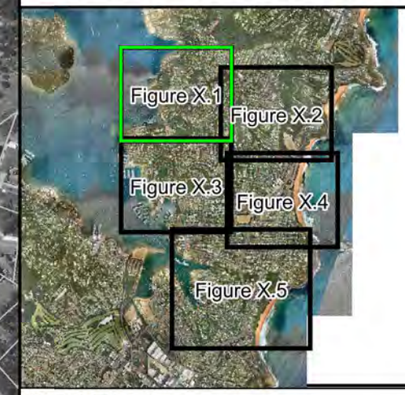

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 20.1: Peak Floodwater Depths for the 0.2% AEP Flood

Prepared By:

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Sydney, NSW 2000

File Name: Fig20.1 - Depths for 0.2%AEP Flood.wor

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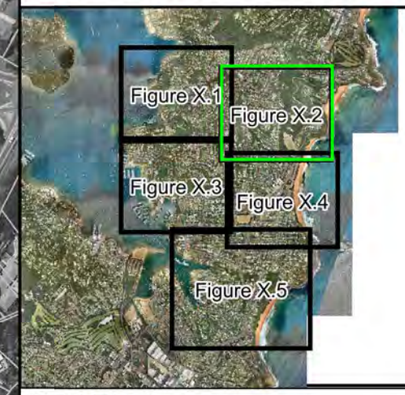

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 20.2: Peak Floodwater Depths for the 0.2% AEP Flood

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Catchment Simulation Solutions
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Sydney, NSW 2000

File Name: Fig20.2 - Depths for 0.2%AEP Flood.wor

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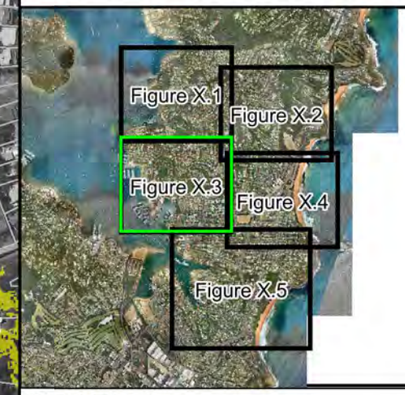

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 20.3: Peak Floodwater Depths for the 0.2% AEP Flood

Prepared By:

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Sydney, NSW 2000

File Name: Fig20.3 - Depths for 0.2%AEP Flood.wor

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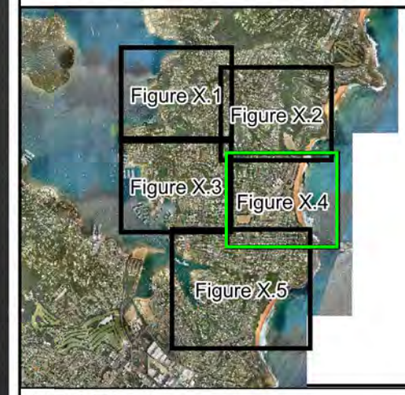

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 20.4: Peak Floodwater Depths for the 0.2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig20.4 - Depths for 0.2%AEP Flood.wor

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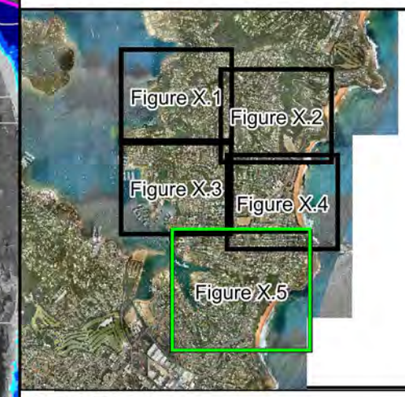

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3 Km

Figure 20.5: Peak Floodwater Depths for the 0.2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig20.5 - Depths for 0.2%AEP Flood.wor

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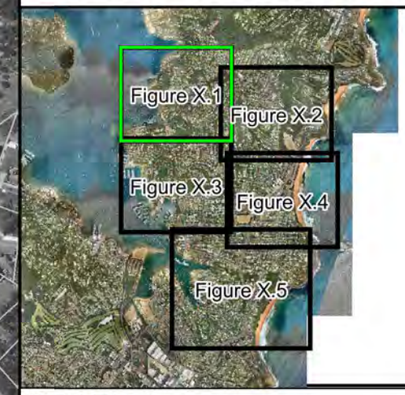

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 21.1: Peak Floodwater Depths for the 0.1% AEP Flood

Prepared By:

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Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.1 - Depths for 0.1%AEP Flood.wor

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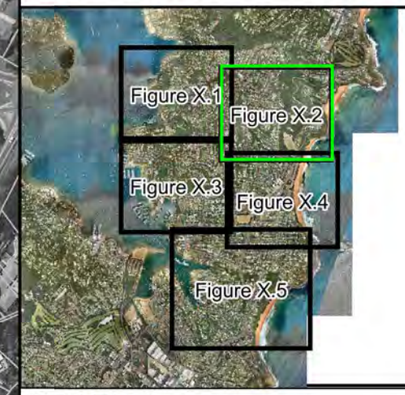

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 21.2: Peak Floodwater Depths for the 0.1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.2 - Depths for 0.1%AEP Flood.wor

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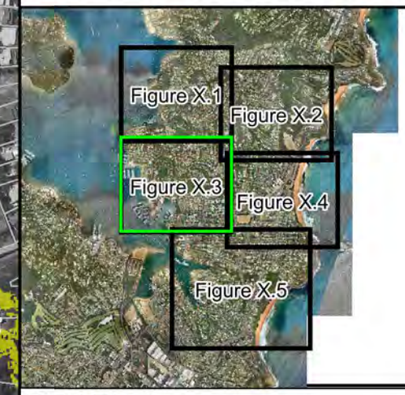

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 21.3: Peak Floodwater Depths for the 0.1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.3 - Depths for 0.1%AEP Flood.wor

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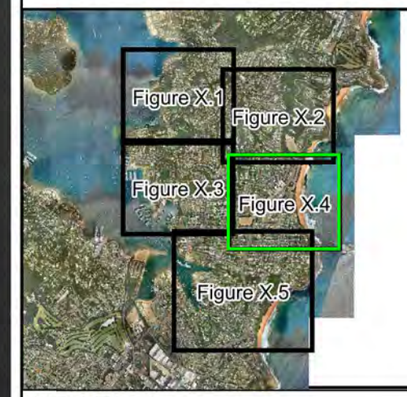

Pacific Ocean

Neptune Road
Ismona Avenue
Rosmoor Avenue
Coleys Parade
Ocean Avenue
Cookman Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburral Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 21.4: Peak Floodwater Depths for the 0.1% AEP Flood

Prepared By:

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Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.4 - Depths for 0.1%AEP Flood.wor

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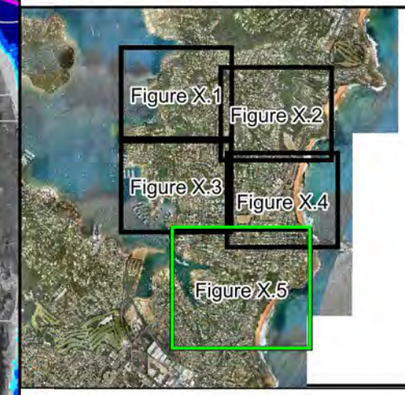

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 21.5:
Peak Floodwater Depths for the 0.1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig21.5 - Depths for 0.1%AEP Flood.wor

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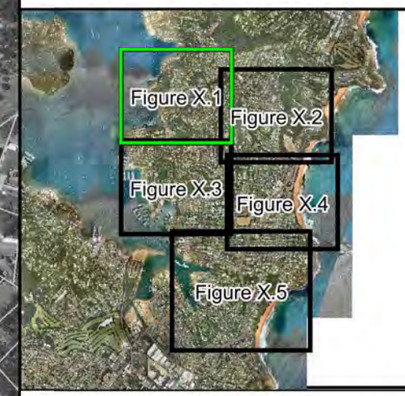

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 22.1: Peak Floodwater Depths for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.1 - Depths for PMF Flood.wor

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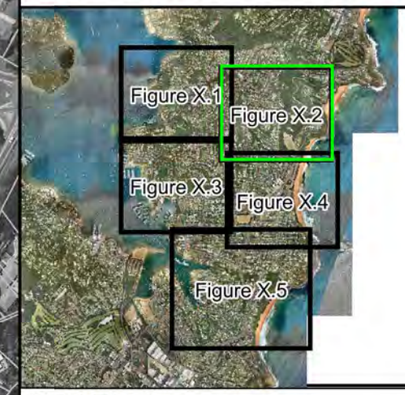

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 22.2:
Peak Floodwater Depths for the PMF Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.2 - Depths for PMF Flood.wor

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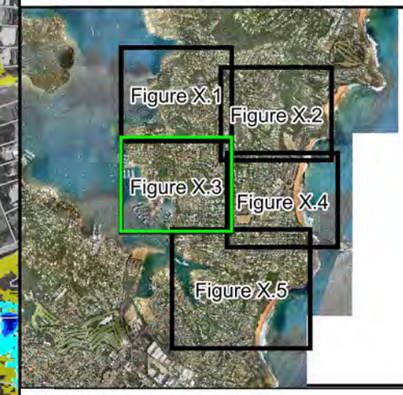

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00

Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 22.3: Peak Floodwater Depths for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.3 - Depths for PMF Flood.wor

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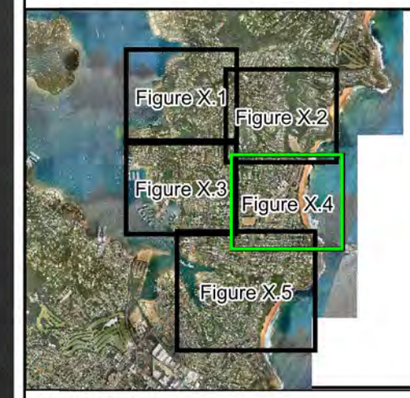

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 22.4: Peak Floodwater Depths for the PMF Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.4 - Depths for PMF Flood.wor

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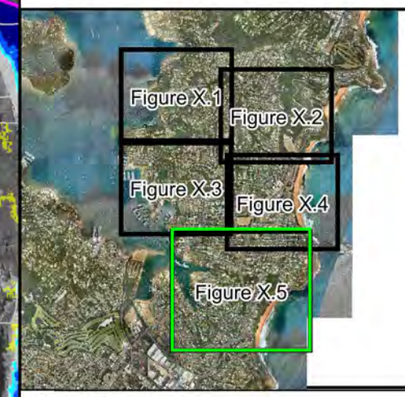

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

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Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 22.5: Peak Floodwater Depths for the PMF Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig22.5 - Depths for PMF Flood.wor

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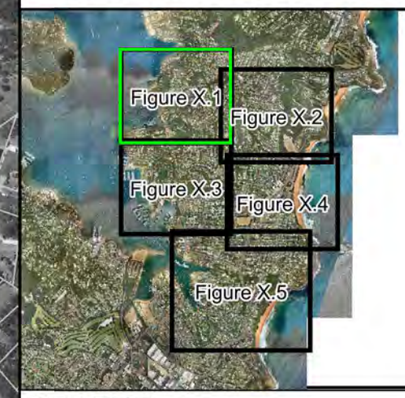

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 23.1: Peak Velocities for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig23.1 - Velocities for 20%AEP Flood.wor

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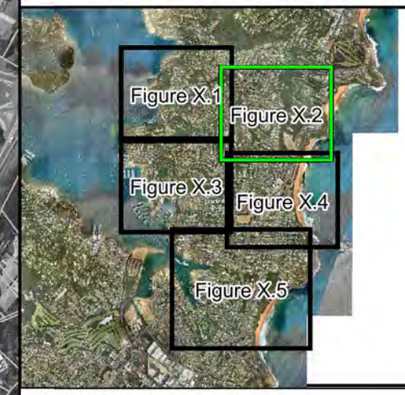

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 23.2: Peak Velocities for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig23.2 - Velocities for 20%AEP Flood.wor

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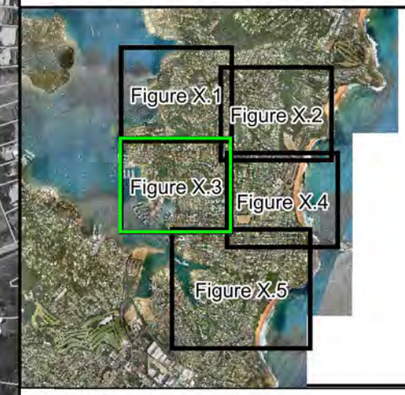


LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 23.3:
Peak Velocities for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig23.3 - Velocities for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL

Pacific Ocean

Neptune Road
Ismona Avenue
Rosmoral Avenue
Coles Parade
Ocean Avenue
Cooyong Road
Robertson Road
Bramley Avenue
Ross Street
Nyola Road
Irrubel Road
Nullaburral Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

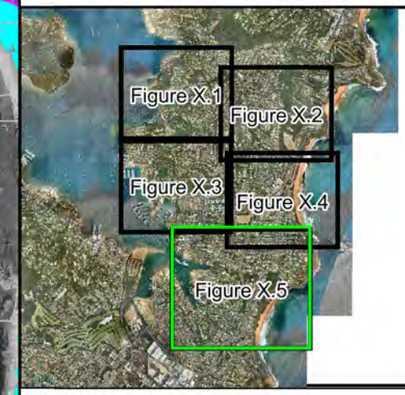
Figure 23.4: Peak Velocities for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig23.4 - Velocities for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

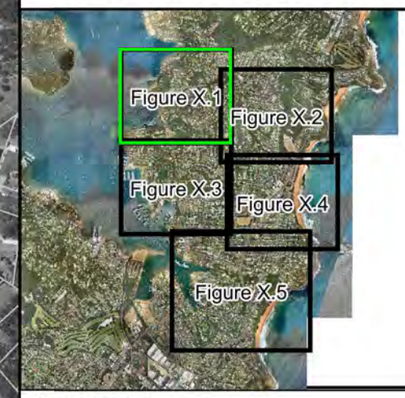
Km

Figure 23.5:
Peak Velocities for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig23.5 - Velocities for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

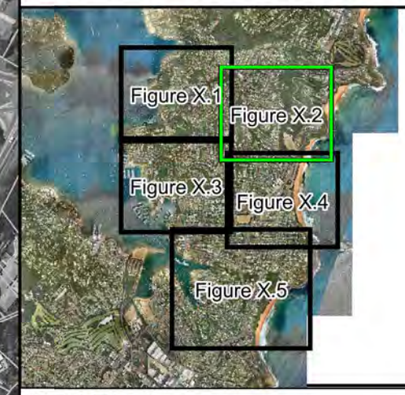
Figure 24.1: Peak Velocities for the 10% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig24.1 - Velocities for 10%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

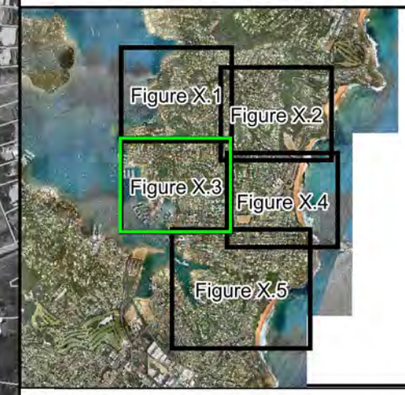
0 0.1 0.2 Km

Figure 24.2: Peak Velocities for the 10% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig24.2 - Velocities for 10%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 24.3:
Peak Velocities for the 10% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig24.3 - Velocities for 10%AEP Flood.wor

NORTHERN BEACHES COUNCIL

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

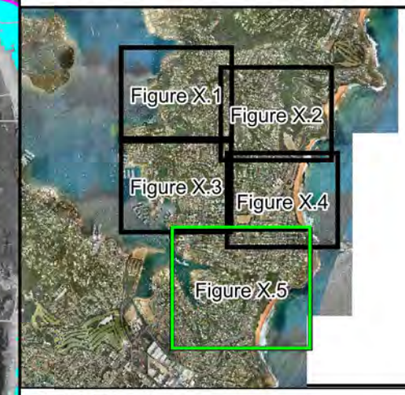
Figure 24.4: Peak Velocities for the 10% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig24.4 - Velocities for 10%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

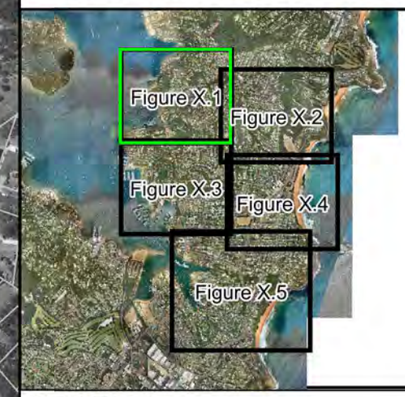
Km

Figure 24.5:
Peak Velocities for the 10% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig24.5 - Velocities for 10%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

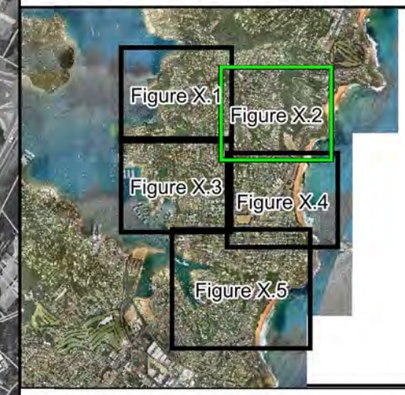
Figure 25.1: Peak Velocities for the 5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig25.1 - Velocities for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

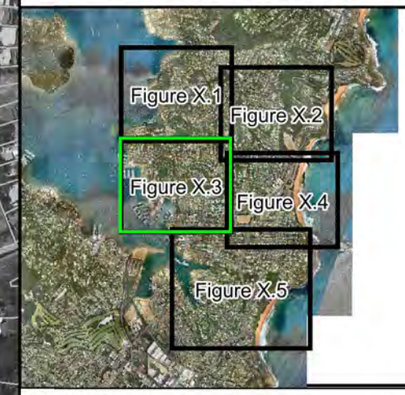
Figure 25.2: Peak Velocities for the 5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig25.2 - Velocities for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 25.3:
Peak Velocities for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig25.3 - Velocities for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

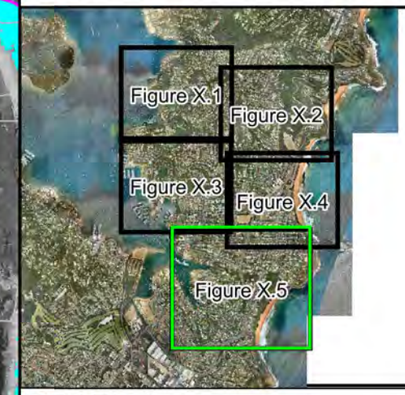
0 0.1 0.2 Km

Figure 25.4: Peak Velocities for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig25.4 - Velocities for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

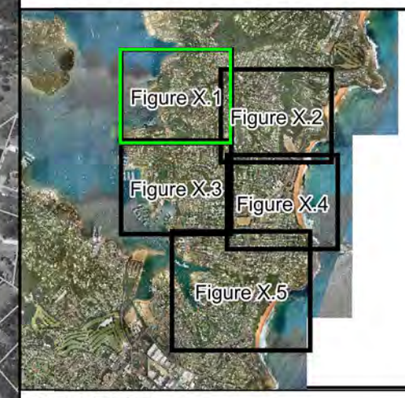
Km

Figure 25.5:
Peak Velocities for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig25.5 - Velocities for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

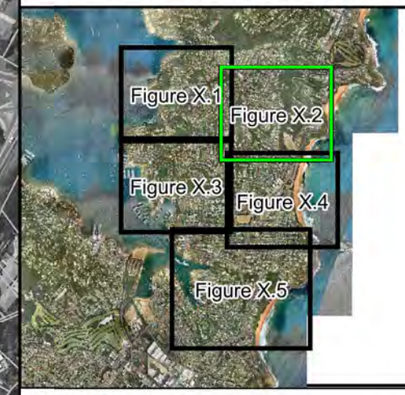
Figure 26.1:
Peak Velocities for the 2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig26.1 - Velocities for 2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

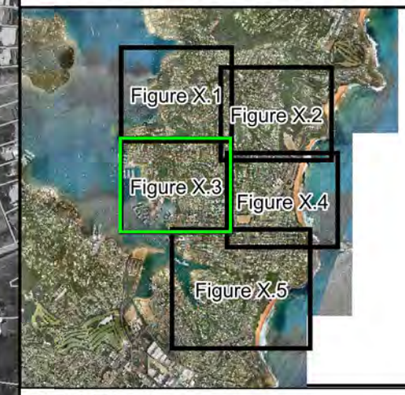
Figure 26.2: Peak Velocities for the 2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig26.2 - Velocities for 2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 26.3: Peak Velocities for the 2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig26.3 - Velocities for 2%AEP Flood.wor

NORTHERN BEACHES COUNCIL

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

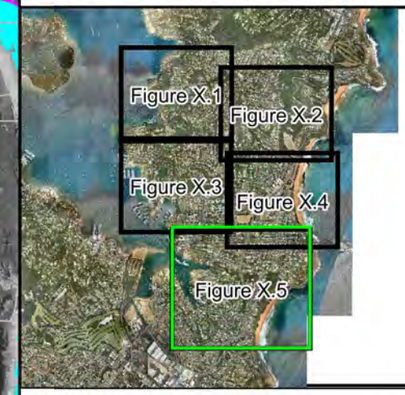
Figure 26.4: Peak Velocities for the 2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig26.4 - Velocities for 2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

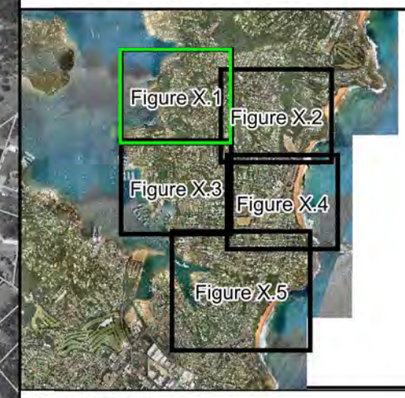
Km

Figure 26.5: Peak Velocities for the 2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig26.5 - Velocities for 2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

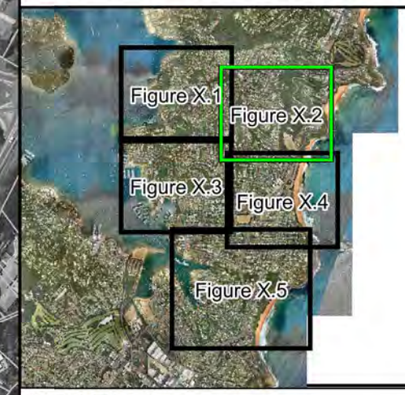
Figure 27.1: Peak Velocities for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig27.1 - Velocities for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

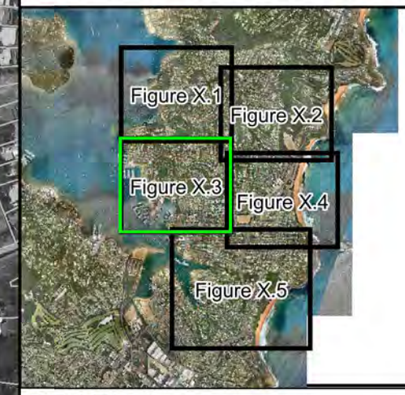
Figure 27.2: Peak Velocities for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig27.2 - Velocities for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

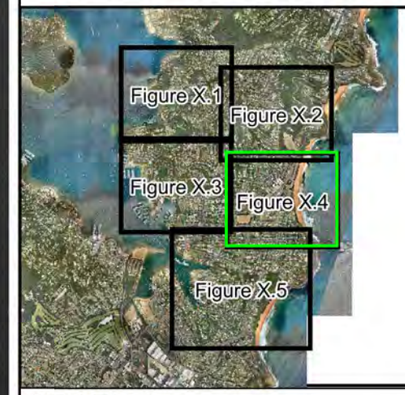
0 0.1 0.2 Km

Figure 27.3: Peak Velocities for the 1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig27.3 - Velocities for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

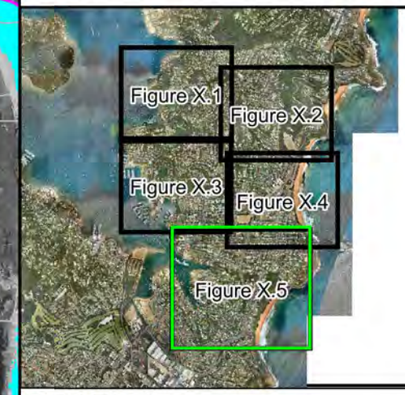
Figure 27.4: Peak Velocities for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig27.4 - Velocities for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

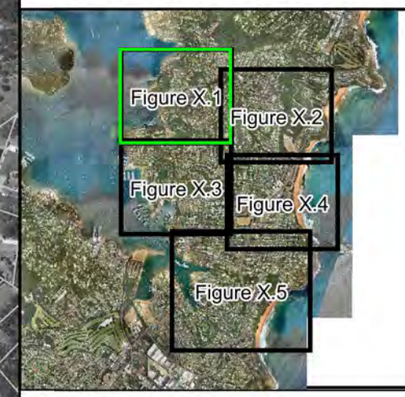
Figure 27.5: Peak Velocities for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig27.5 - Velocities for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

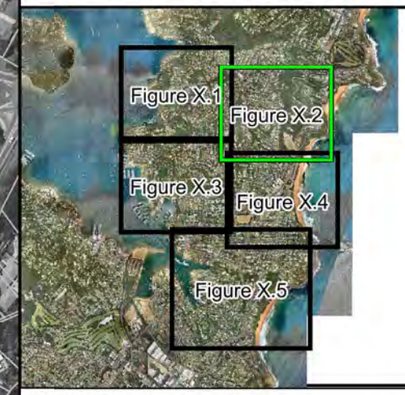
Figure 28.1:
Peak Velocities for the 0.5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig28.1 - Velocities for 0.5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

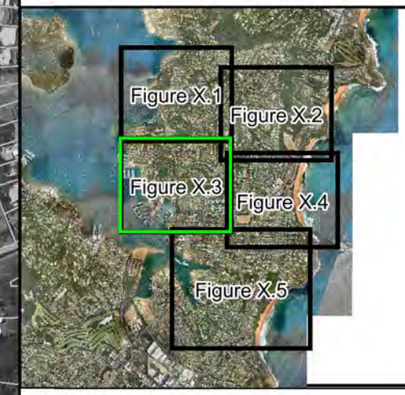
0 0.1 0.2 Km

Figure 28.2: Peak Velocities for the 0.5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig28.2 - Velocities for 0.5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 28.3:
Peak Velocities for the 0.5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig28.3 - Velocities for 0.5%AEP Flood.wor

NORTHERN BEACHES COUNCIL

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

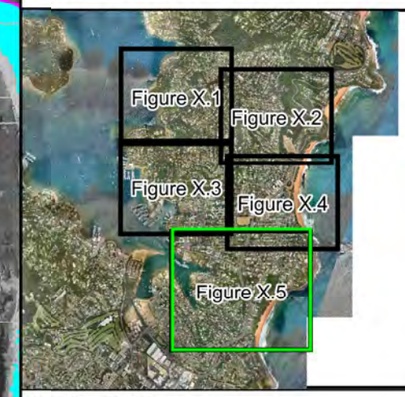
0 0.1 0.2 Km

Figure 28.4:
Peak Velocities for the 0.5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig28.4 - Velocities for 0.5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

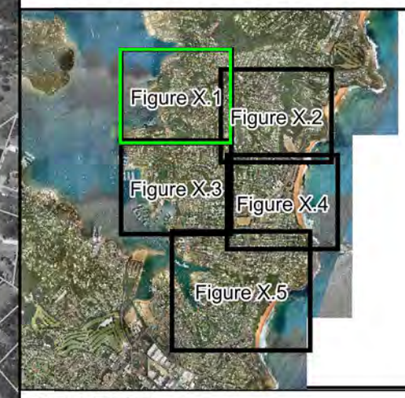
Km

Figure 28.5:
Peak Velocities for the 0.5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig28.5 - Velocities for 0.5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

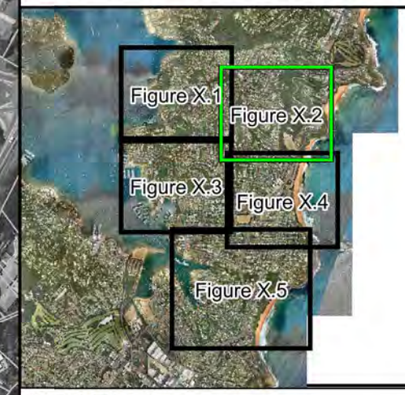
Figure 29.1: Peak Velocities for the 0.2% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig29.1 - Velocities for 0.2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

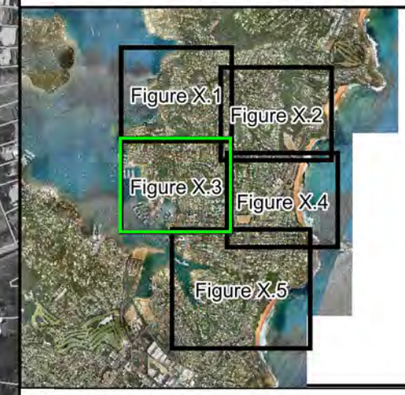
0 0.1 0.2 Km

Figure 29.2:
Peak Velocities for the 0.2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig29.2 - Velocities for 0.2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

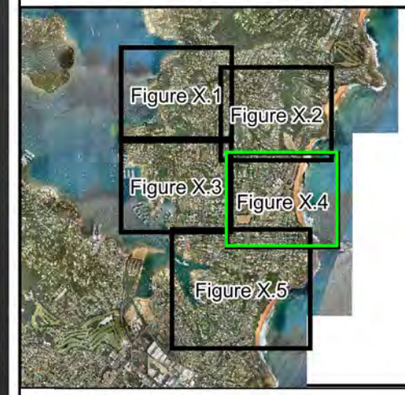
0 0.1 0.2 Km

Figure 29.3:
Peak Velocities for the 0.2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig29.3 - Velocities for 0.2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

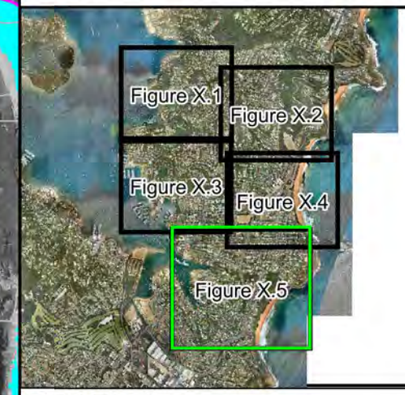
0 0.1 0.2 Km

Figure 29.4:
Peak Velocities for the 0.2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig29.4 - Velocities for 0.2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

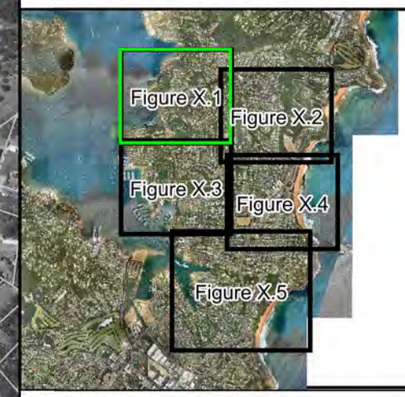
Km

Figure 29.5: Peak Velocities for the 0.2% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig29.5 - Velocities for 0.2%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

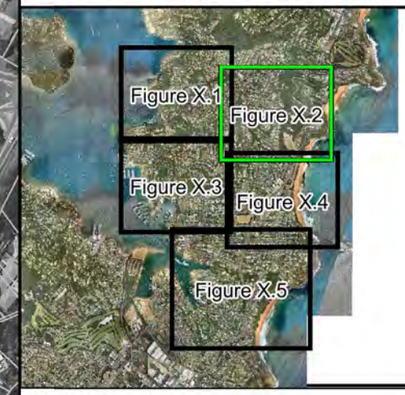
Figure 30.1: Peak Velocities for the 0.1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig30.1 - Velocities for 0.1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

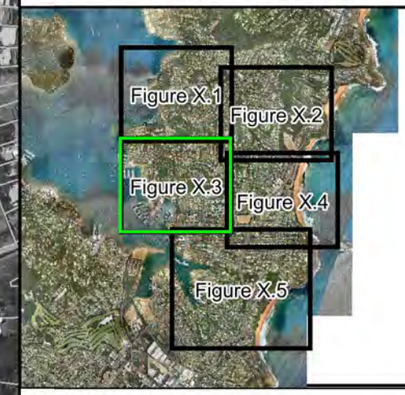
Figure 30.2: Peak Velocities for the 0.1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig30.2 - Velocities for 0.1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

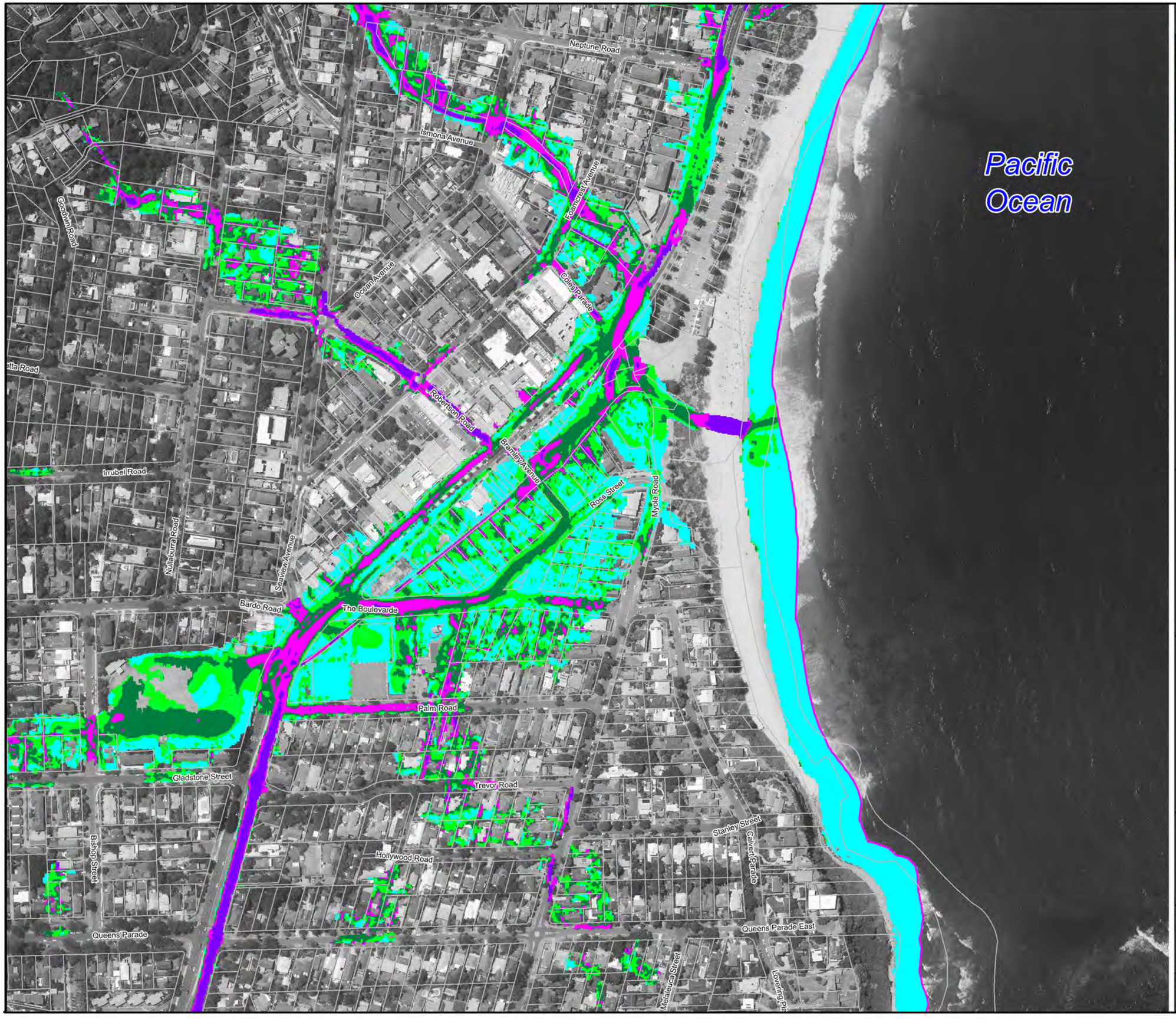
Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 30.3:
Peak Velocities for the 0.1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig30.3 - Velocities for 0.1%AEP Flood.wor



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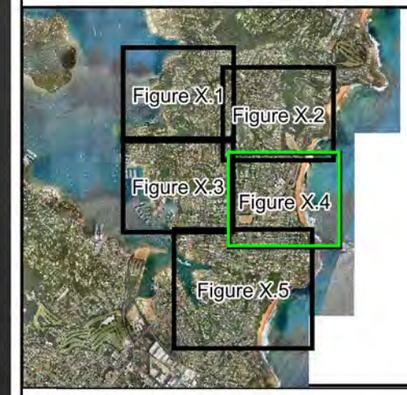


LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

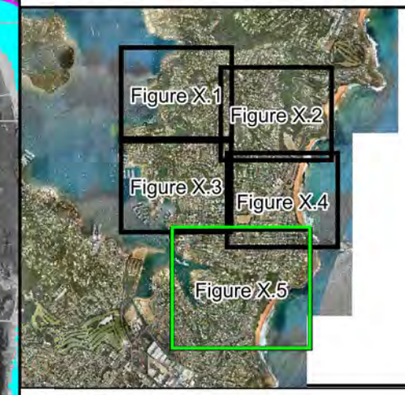
Figure 30.4: Peak Velocities for the 0.1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig30.4 - Velocities for 0.1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

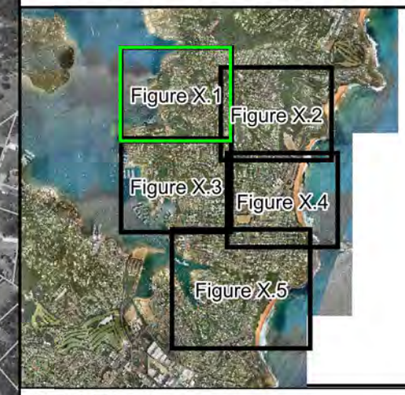
Km

Figure 30.5: Peak Velocities for the 0.1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig30.5 - Velocities for 0.1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

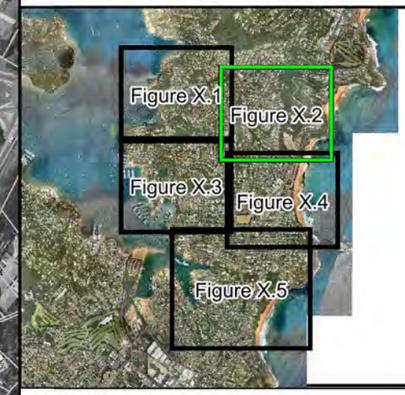
Figure 31.1: Peak Velocities for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig31.1 - Velocities for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

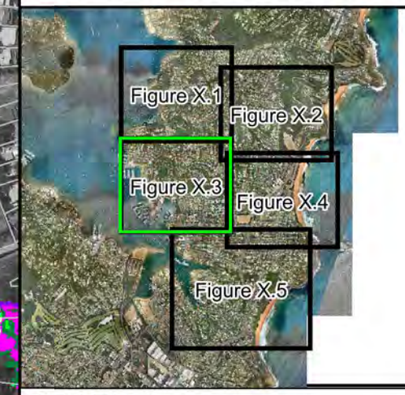
Figure 31.2: Peak Velocities for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig31.2 - Velocities for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

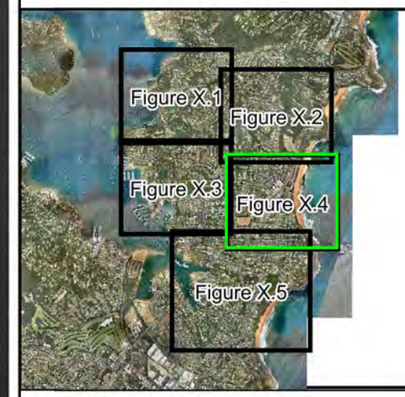
Figure 31.3: Peak Velocities for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig31.3 - Velocities for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

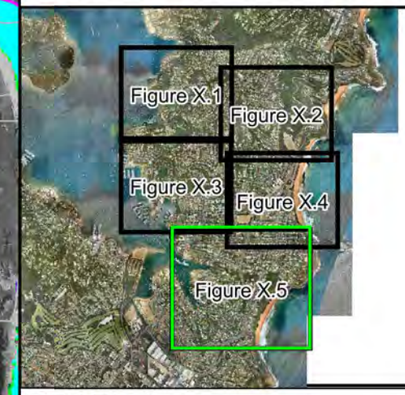
Figure 31.4: Peak Velocities for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig31.4 - Velocities for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

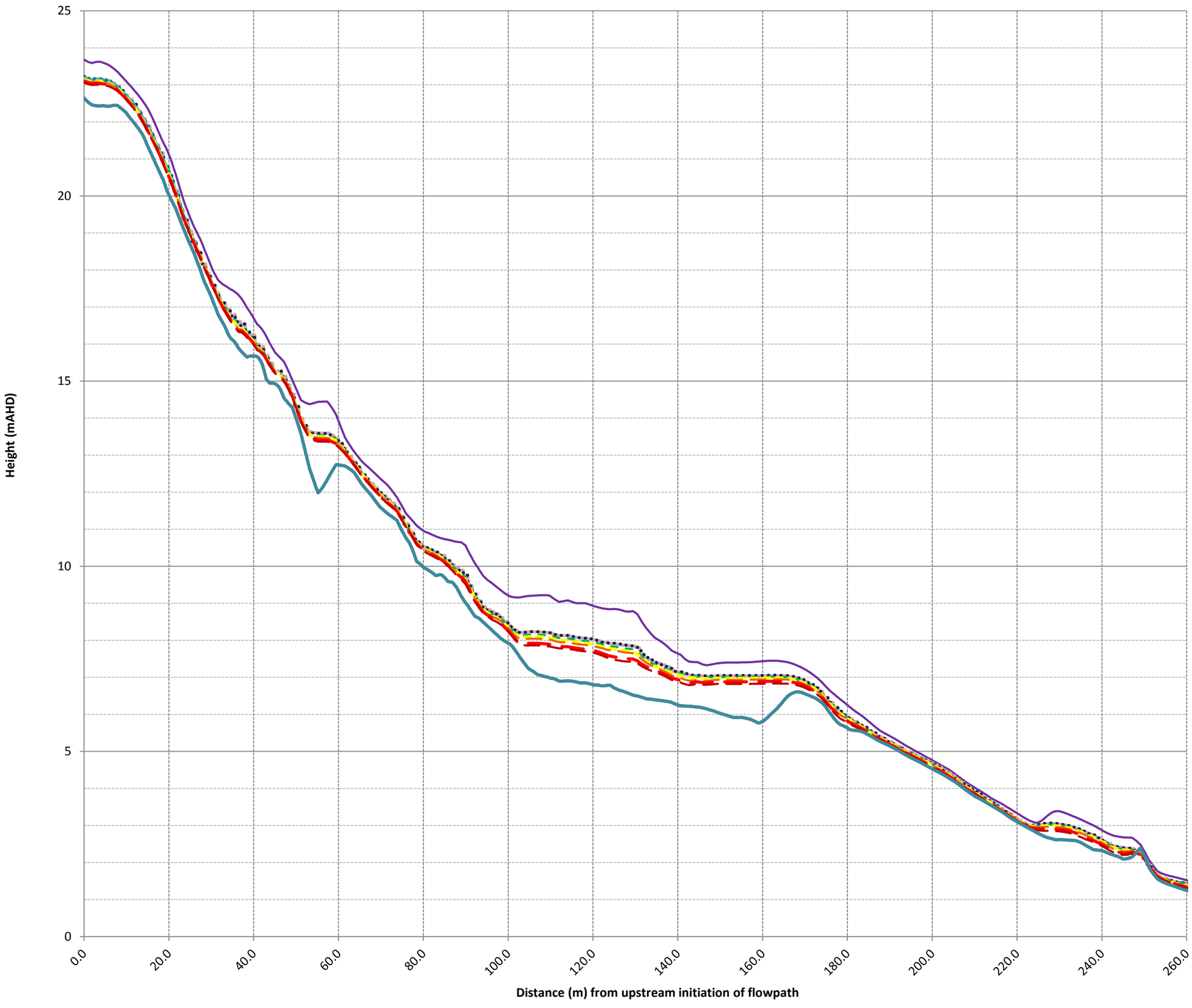
Km

Figure 31.5: Peak Velocities for the PMF Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig31.5 - Velocities for PMF Flood.wor



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

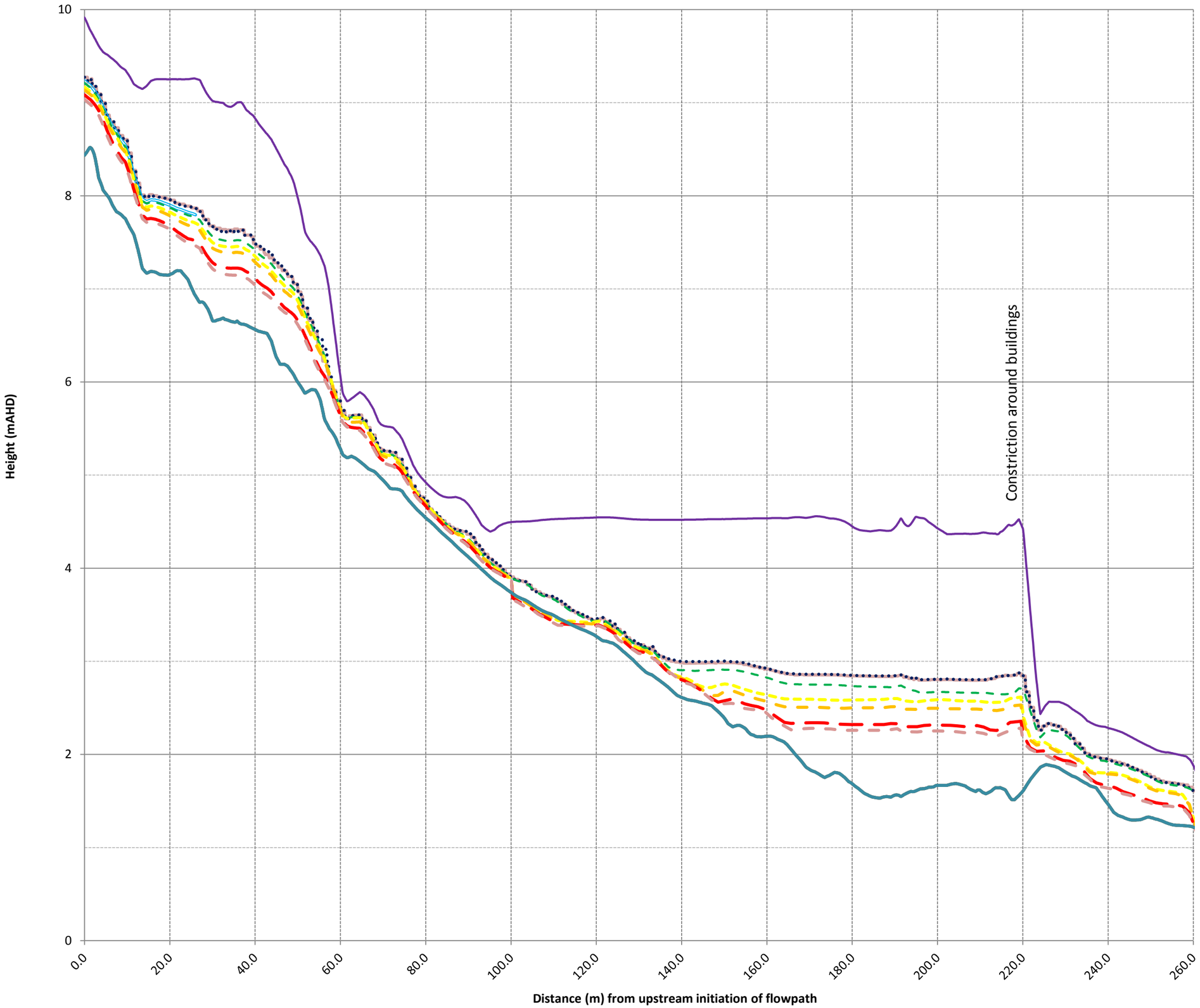
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.1
Design Water Surface for Newport at Profile 1

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

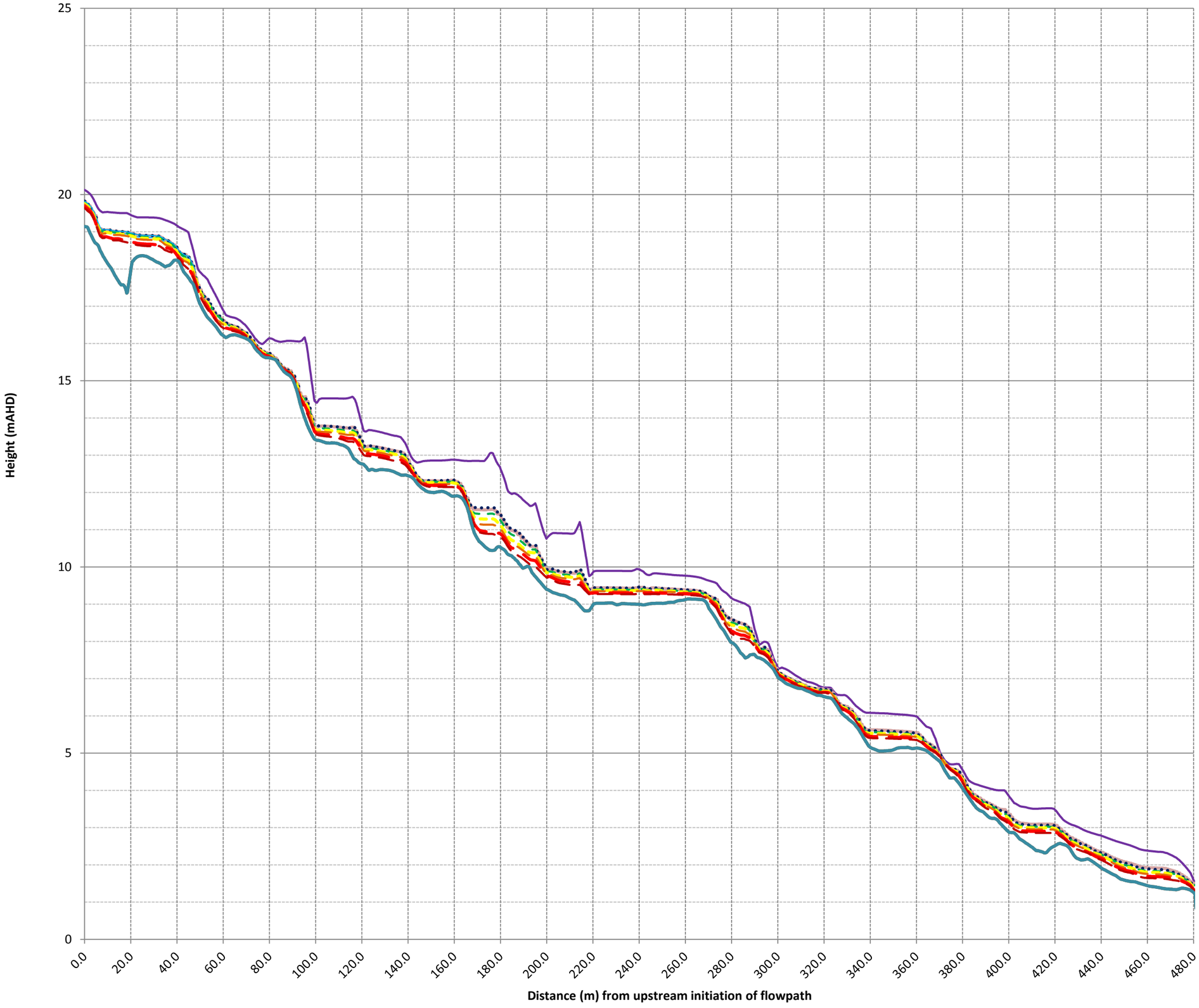
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.2
Design Water Surface for Newport at Profile 2

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

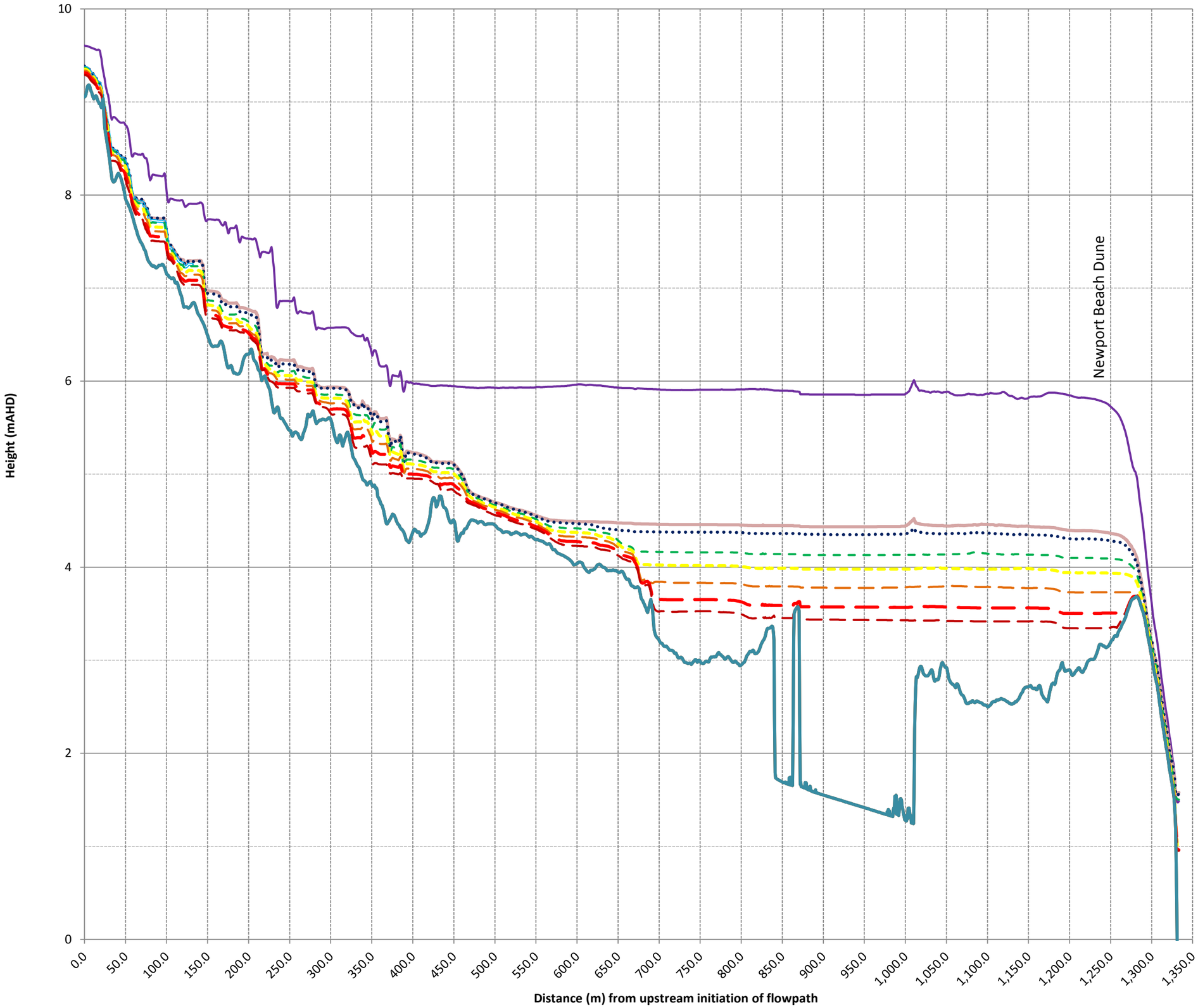
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.3
Design Water Surface for Newport at Profile 3

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

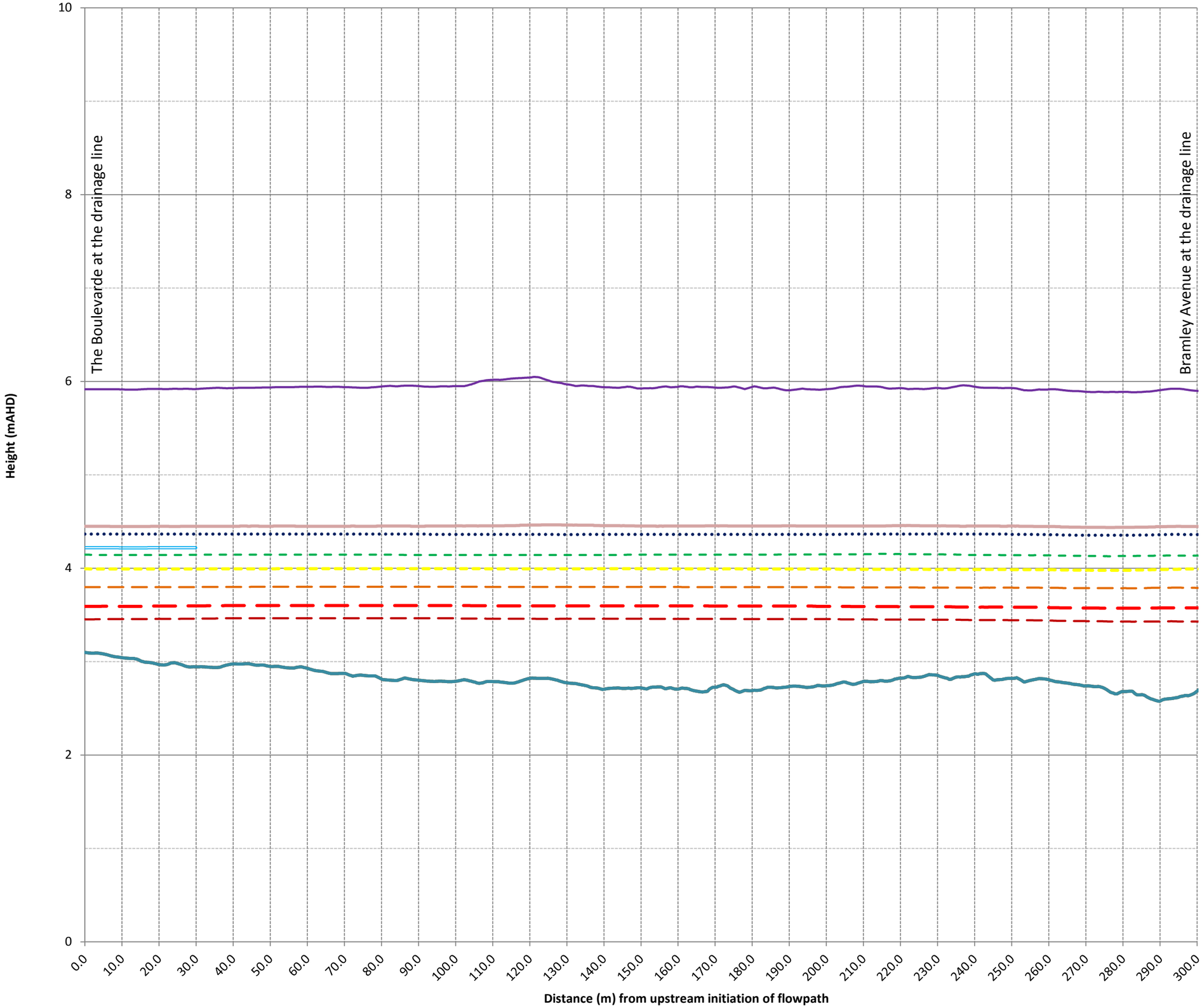
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.4
Design Water Surface for Newport at Profile 4

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

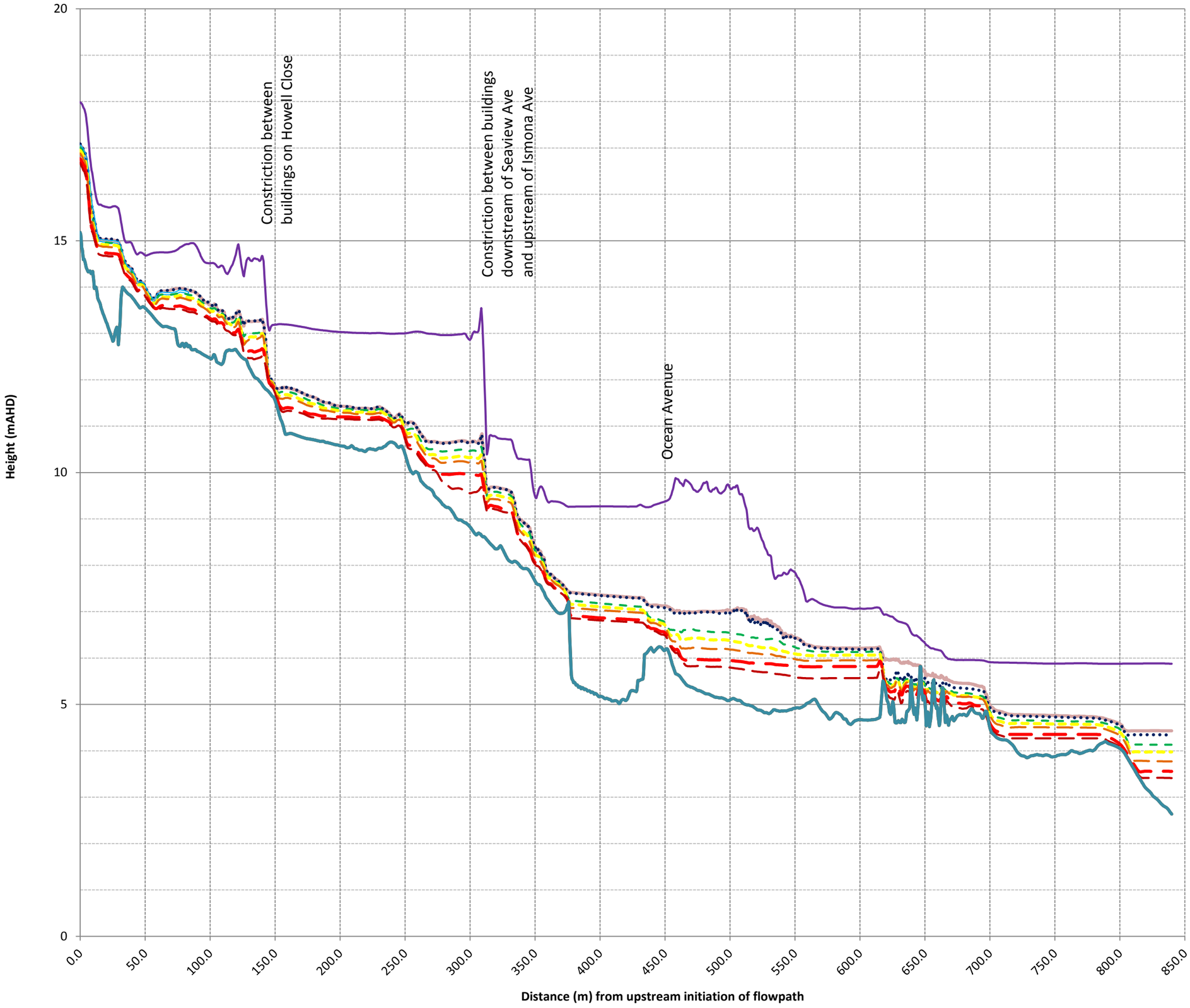
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.5
Design Water Surface for Newport at Profile 5

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

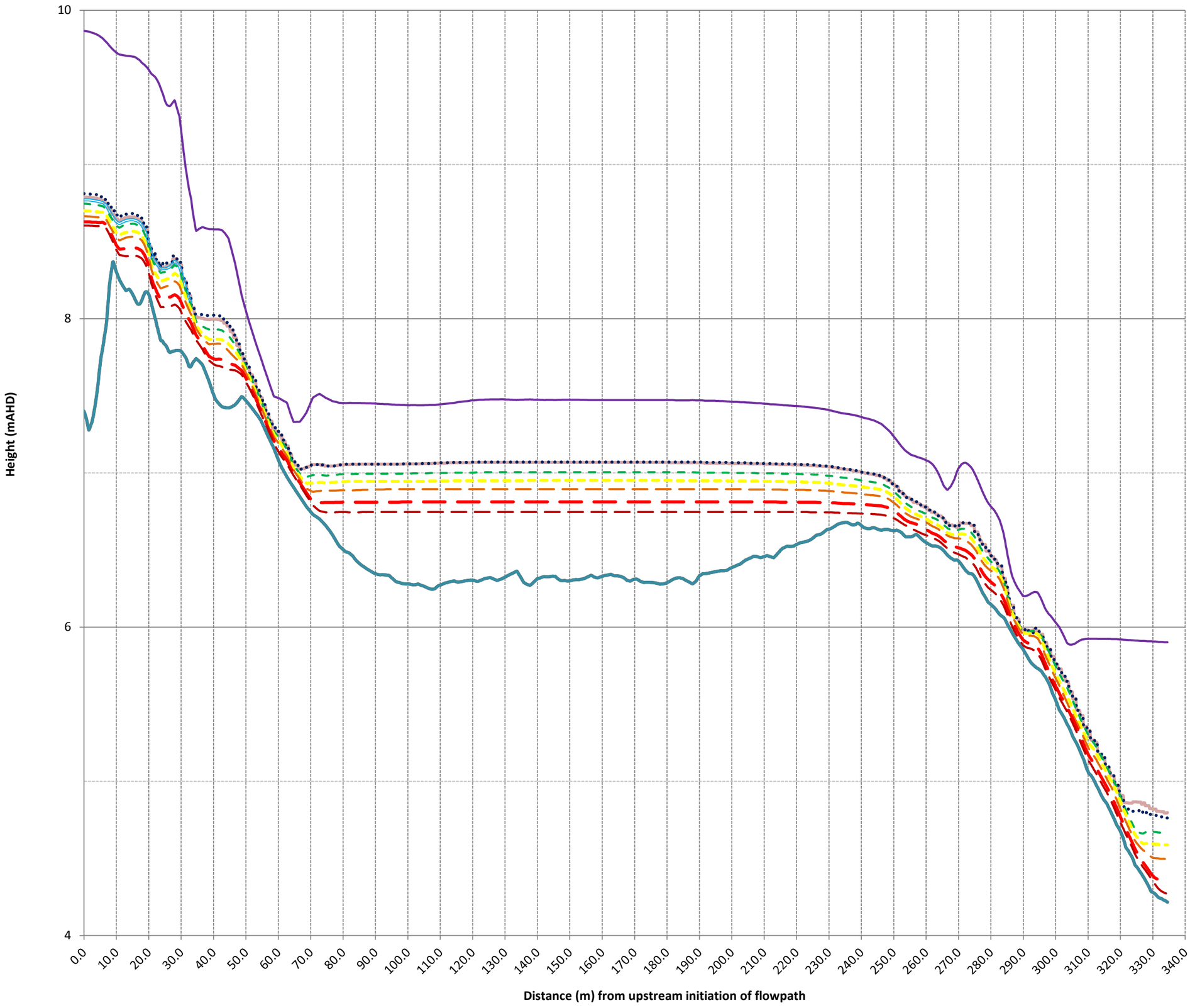
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.6
Design Water Surface for Newport at Profile 6

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

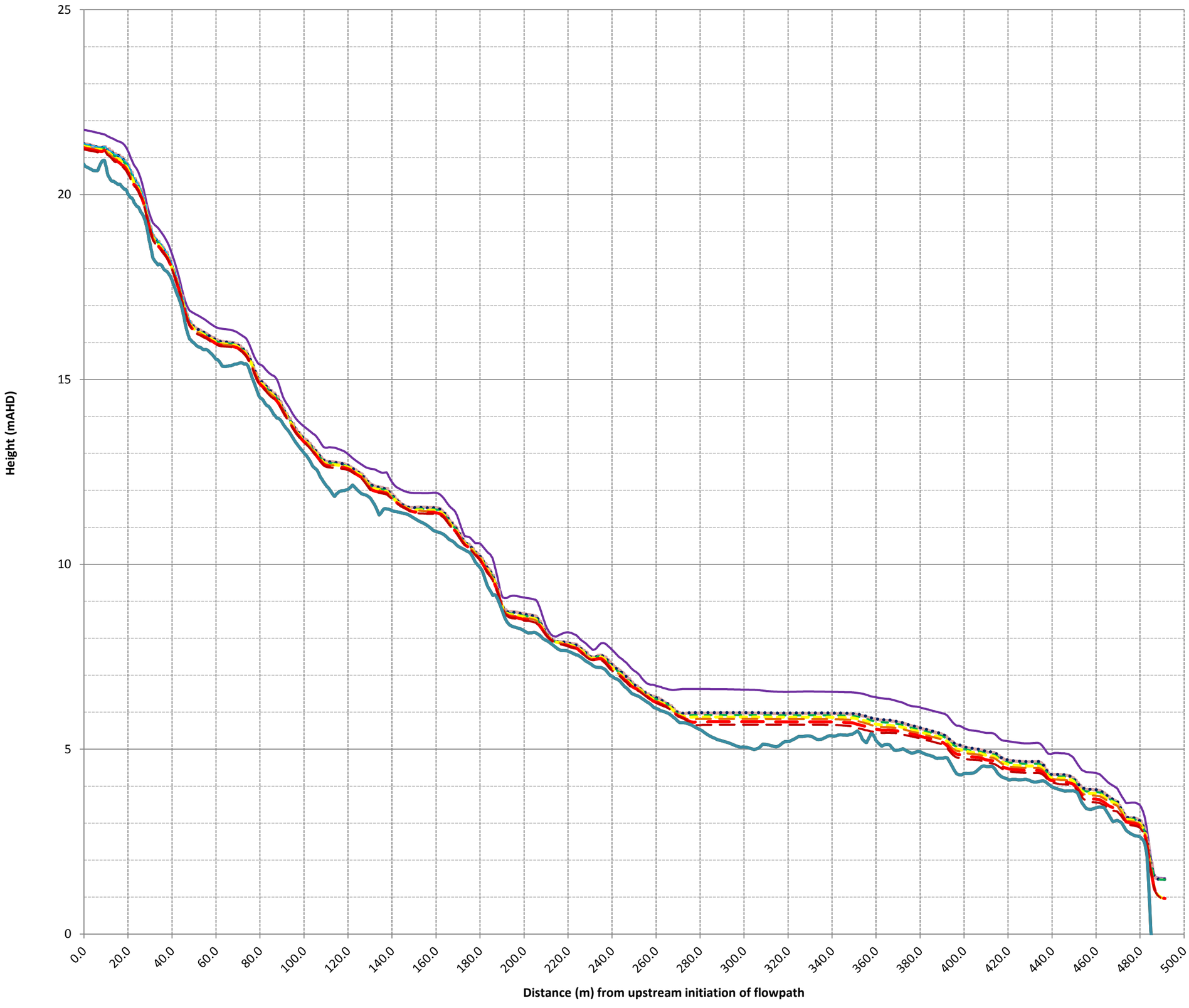
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.7
Design Water Surface for Newport at Profile 7

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

Notes:

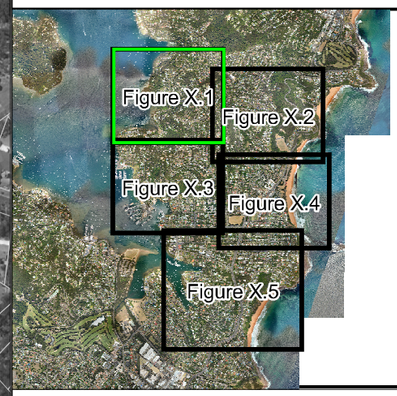
A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 32.8
Design Water Surface for Newport at Profile 8

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx

NORTHERN BEACHES COUNCIL



LEGEND

Failure AEP
- < 50% AEP
- 50% AEP
- 20% AEP
- 10% AEP
- 5% AEP
- 2% AEP
- >= 1% AEP

Pit Failure Type
- No Failure
- Surcharge
- Ponding

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

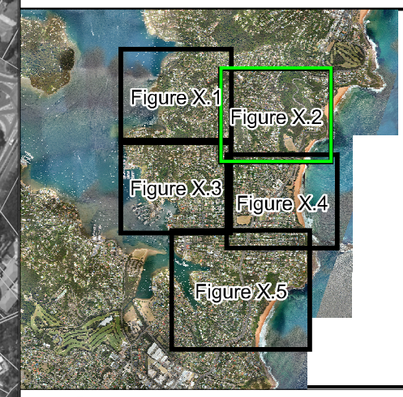
Figure 33.1: Stormwater Capacity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig33.1 - SW Capacity.wor

NORTHERN BEACHES COUNCIL



LEGEND

Failure AEP

- < 50% AEP
- 50% AEP
- 20% AEP
- 10% AEP
- 5% AEP
- 2% AEP
- >= 1% AEP

Pit Failure Type

- No Failure
- Surcharge
- Ponding

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

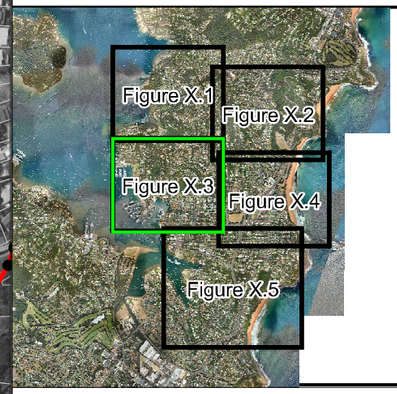
Figure 33.2: Stormwater Capacity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig33.2 - SW Capacity.wor

NORTHERN BEACHES COUNCIL



LEGEND

Failure AEP

- < 50% AEP
- 50% AEP
- 20% AEP
- 10% AEP
- 5% AEP
- 2% AEP
- >= 1% AEP

Pit Failure Type

- No Failure
- Surcharge
- Ponding

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

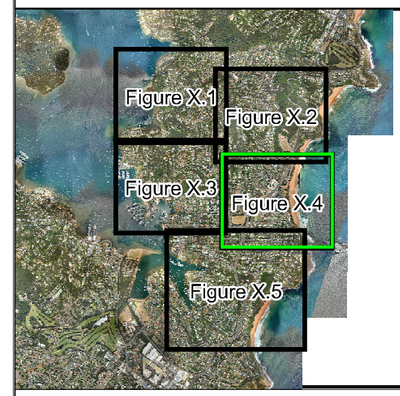
Km

Figure 33.3: Stormwater Capacity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig33.3 - SW Capacity.wor

NORTHERN BEACHES COUNCIL



LEGEND

Failure AEP
- < 50% AEP
- 50% AEP
- 20% AEP
- 10% AEP
- 5% AEP
- 2% AEP
- >= 1% AEP

Pit Failure Type
- No Failure
- Surcharge
- Ponding

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

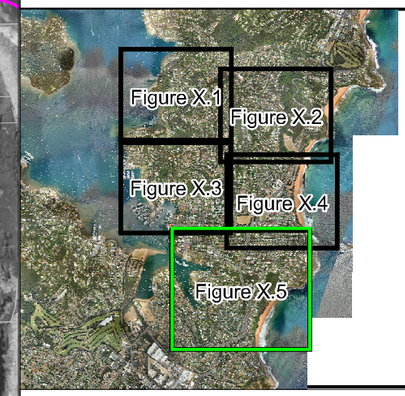
Figure 33.4: Stormwater Capacity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig33.4 - SW Capacity.wor

NORTHERN BEACHES COUNCIL



LEGEND

Failure AEP

- < 50% AEP
- 50% AEP
- 20% AEP
- 10% AEP
- 5% AEP
- 2% AEP
- >= 1% AEP

Pit Failure Type

- No Failure
- Surcharge
- Ponding

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N W E S

Scale 1:5,000 (at A3)

0 0.15 0.3 Km

Figure 33.5: Stormwater Capacity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig33.5 - SW Capacity.wor

NORTHERN BEACHES COUNCIL

LEGEND

- Coastal Inundation
- Mainstream Flooding
- Overland Flooding

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:13,000 (at A3)

0 0.4 0.8

Km

Figure 34: Areas of Overland Flow and Mainstream Flooding (1% AEP)

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig34 - Areas of Overland Flow .wor

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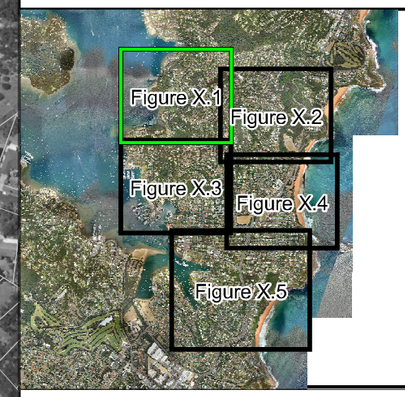

LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 35.1: Preliminary 20% AEP Emergency Response Classifications

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig35.1 - ERC for 20%AEP Flood.wor

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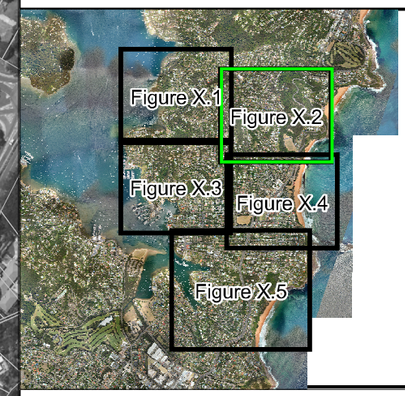


LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

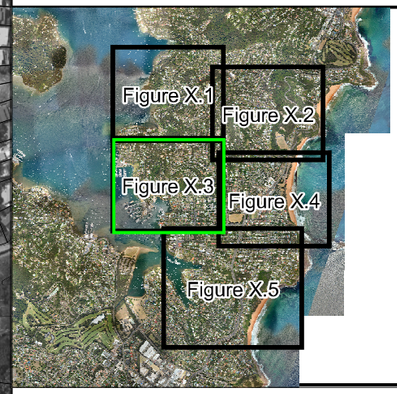
Figure 35.2: Preliminary 20% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig35.2 - ERC for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 16 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

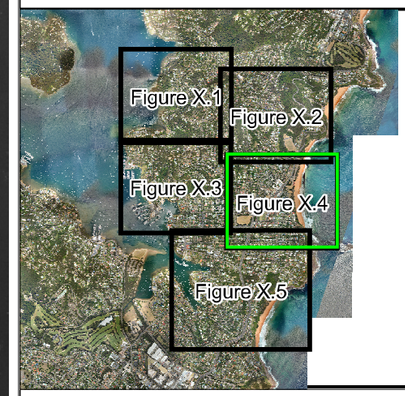
Figure 35.3: Preliminary 20% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig35.3 - ERC for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

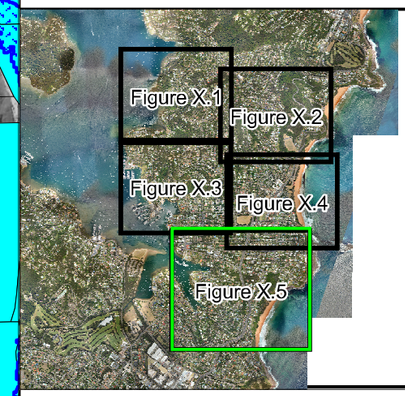
0 0.1 0.2 Km

Figure 35.4: Preliminary 20% AEP Emergency Response Classifications

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig35.4 - ERC for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.6 / 0.5 — Time of Road First Overtopping (hours) / Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

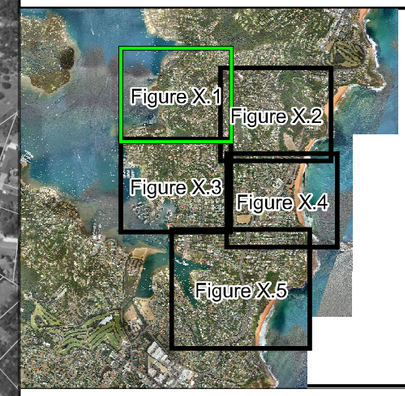
Figure 35.5: Preliminary 20% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig35.5 - ERC for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 15 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

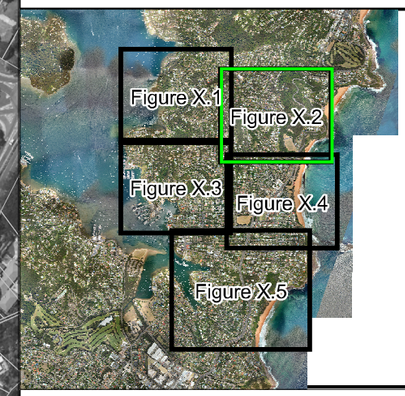
Figure 36.1: Preliminary 5% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig36.1 - ERC for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

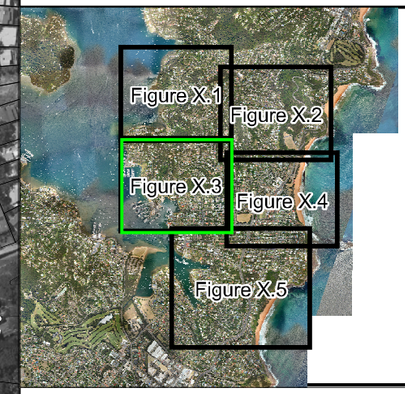
Figure 36.2: Preliminary 5% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig36.2 - ERC for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- Time of Road First Overtopping (hours)
- Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

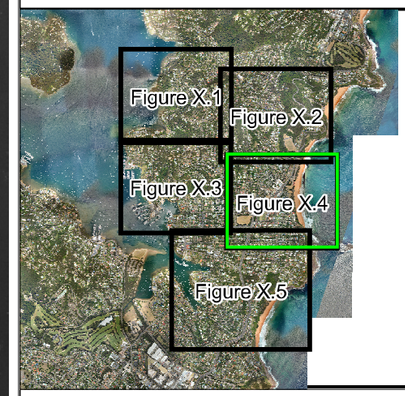
0 0.1 0.2 Km

Figure 36.3: Preliminary 5% AEP Emergency Response Classifications

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig36.3 - ERC for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Goodwin Road
Ocean Avenue
Coles Parade
Robertson Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Ross Street
Nyola Road
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

1.33
0.67
0.67
0.58
0.5
0.58
1.17
0.5
0.58
1.17
1.42
0.67
0.33
0.58
1.92
0.67
1.56
0.58
1.92
0.75
1.08
0.58
1.42
0.58
1.83
0.58
1.92
0.5
0.42
0.5
0.42

LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 36.4: Preliminary 5% AEP Emergency Response Classifications

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig36.4 - ERC for 5%AEP Flood.wor

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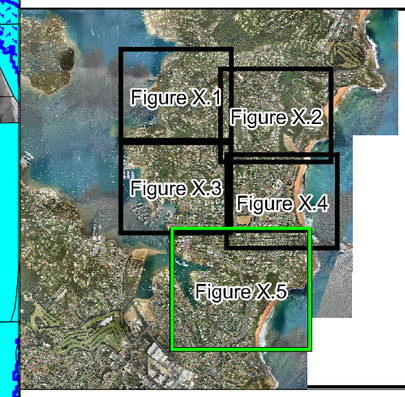


LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.6 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

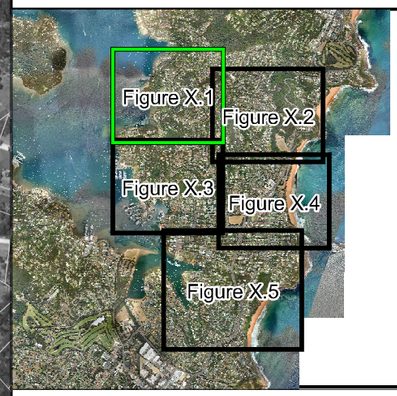
Figure 36.5: Preliminary 5% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig36.5 - ERC for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- Time of Road First Overtopping (hours)
- Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

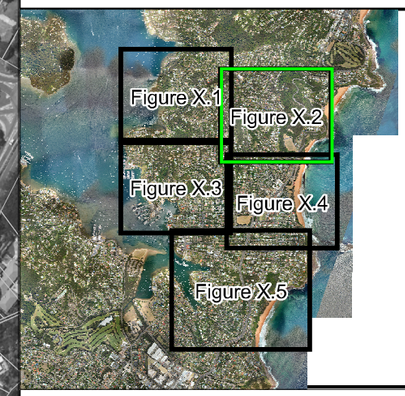
Figure 37.1: Preliminary 1% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig37.1 - ERC for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 / 0.5 — Time of Road First Overtopping (hours) / Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

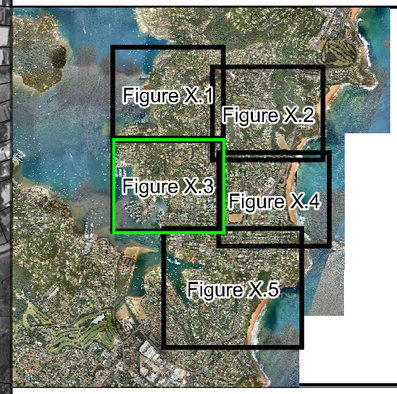
Figure 37.2: Preliminary 1% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig37.2 - ERC for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- Time of Road First Overtopping (hours)
- Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

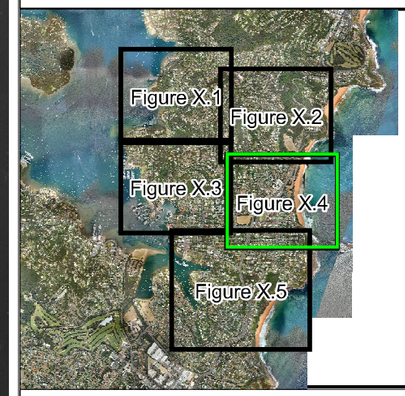
Figure 37.3: Preliminary 1% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig37.3 - ERC for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- Time of Road First Overtopping (hours)
- Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

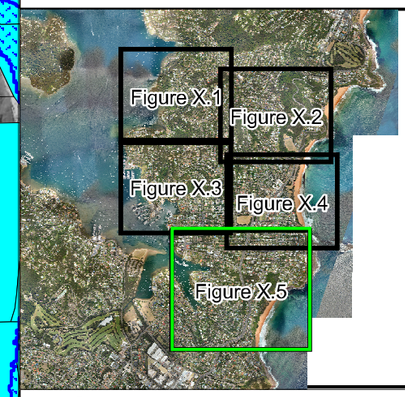
Figure 37.4: Preliminary 1% AEP Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig37.4 - ERC for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 16 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 37.5: Preliminary 1% AEP Emergency Response Classifications

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig37.5 - ERC for 1%AEP Flood.wor

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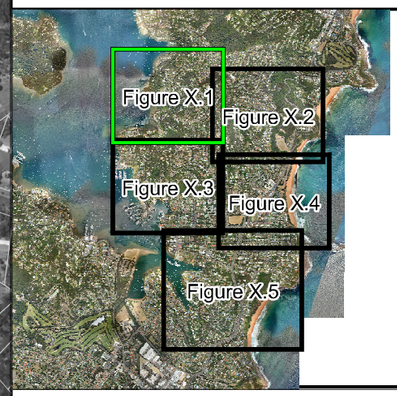


LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.6 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

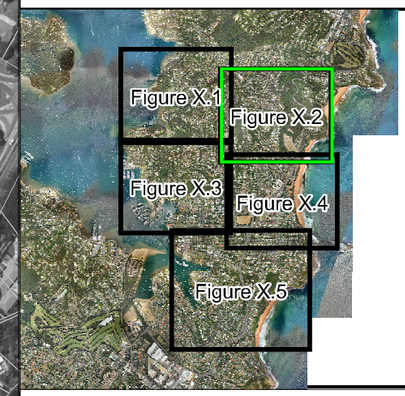
Figure 38.1: Preliminary PMF Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig38.1 - ERC for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 1.5 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

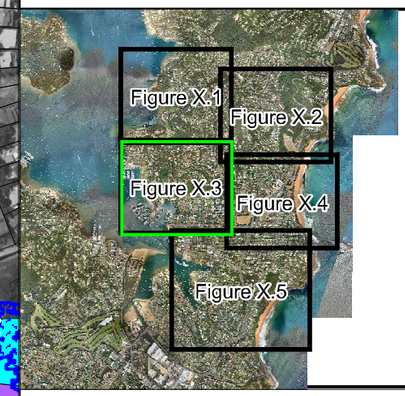
Figure 38.2: Preliminary PMF Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig38.2 - ERC for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- Time of Road First Overtopping (hours)
- Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

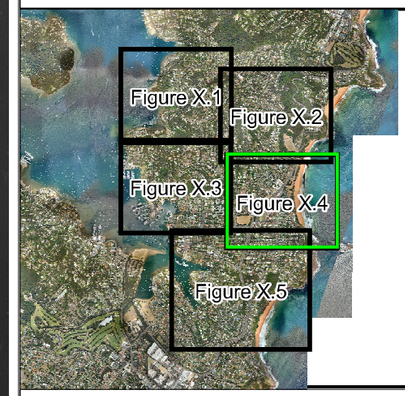
0 0.1 0.2 Km

Figure 38.3: Preliminary PMF Emergency Response Classifications

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig38.3 - ERC for PMF Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Goodwin Road
Ocean Avenue
Coles Parade
Robertson Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Ross Street
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- Time of Road First Overtopping (hours)
- Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

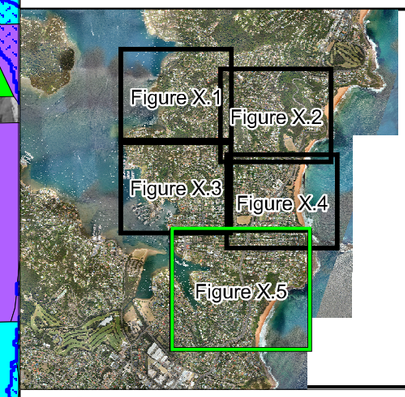
Figure 38.4: Preliminary PMF Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig38.4 - ERC for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent

Road Overtopping Location

- 16 — Time of Road First Overtopping (hours)
- 0.5 — Duration of Overtopping (hours)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

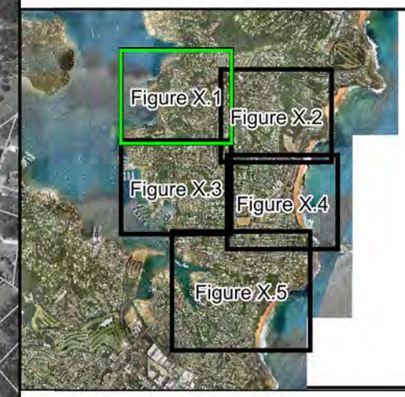
Figure 38.5: Preliminary PMF Emergency Response Classifications

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig38.5 - ERC for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

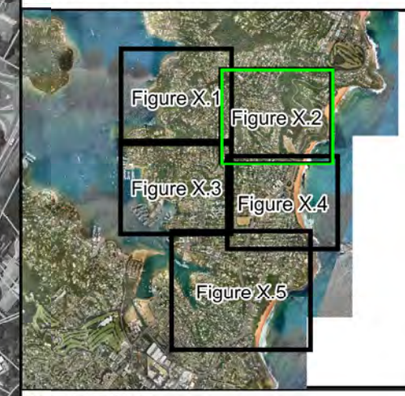
Figure 39.1:
Preliminary True Hazard for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig39.1 - Haz for 20%AEP Flood.wor

Mirrabooka Street
Loomburah Street
Oodnadatta Place
Lower Plateau Road
Plateau Road
Tarama Street
Grandview Drive
De Lauret Avenue
Albona Street
Joanne Place
Elvina Avenue
Harden Avenue
Prince Alfred Parade
Birubi Cres
yle Street
Bil
er

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

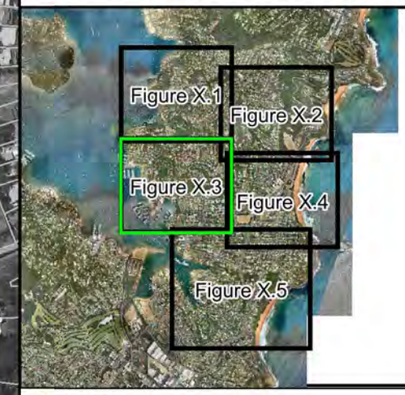
Km

Figure 39.2:
Preliminary True Hazard for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig39.2 - Haz for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 39.3: Preliminary True Hazard for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig39.3 - Haz for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL

Pacific Ocean

Neptune Road
Ismona Avenue
Rosecroft Avenue
Coles Parade
Ocean Avenue
Cookhill Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calver Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

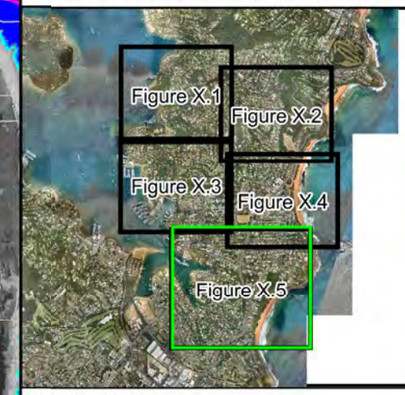
Figure 39.4:
Preliminary True Hazard for the 20% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig39.4 - Haz for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

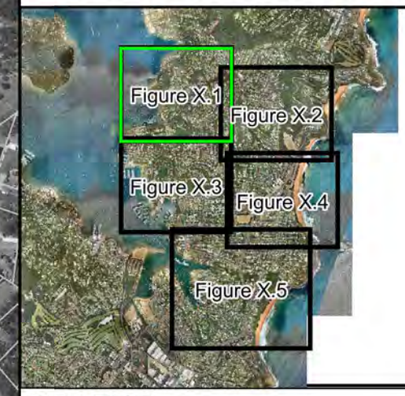
Km

Figure 39.5:
Preliminary True Hazard for the 20% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig39.5 - Haz for 20%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

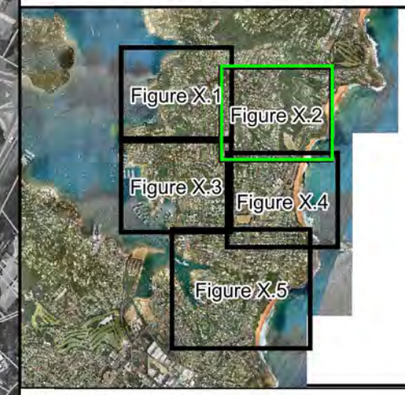
Figure 40.1:
Preliminary True Hazard for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig40.1 - Haz for 5%AEP Flood.wor

Murrabooka Street
Loonban Street
Coolinda Place
Lower Plateau Road
Plateau Road
Terama Street
Grandview Drive
De Laurel Avenue
Algona Street
Joanne Place
Elvina Avenue
Herbert Avenue
Prince Alfred Parade
Birubi Cr
yle Street

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

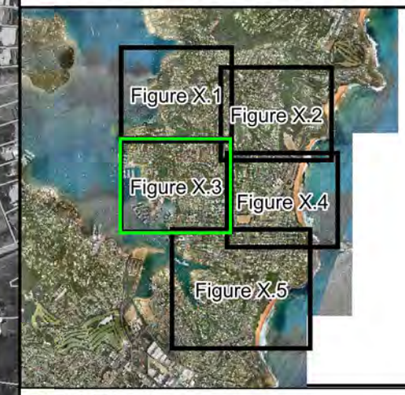
0 0.1 0.2 Km

Figure 40.2: Preliminary True Hazard for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig40.2 - Haz for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

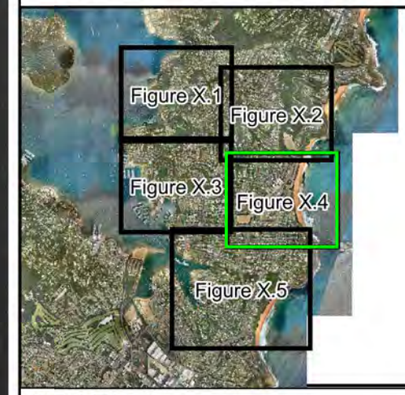
Figure 40.3: Preliminary True Hazard for the 5% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig40.3 - Haz for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

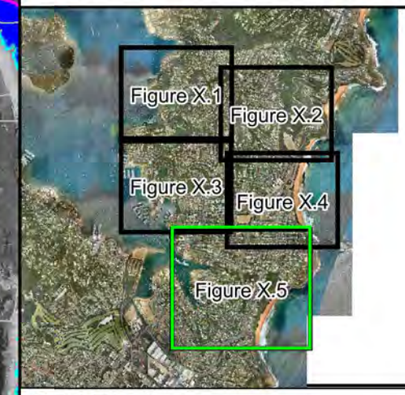
0 0.1 0.2 Km

Figure 40.4: Preliminary True Hazard for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig40.4 - Haz for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

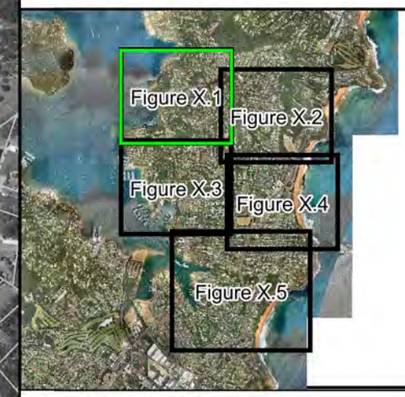
Km

Figure 40.5: Preliminary True Hazard for the 5% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig40.5 - Haz for 5%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

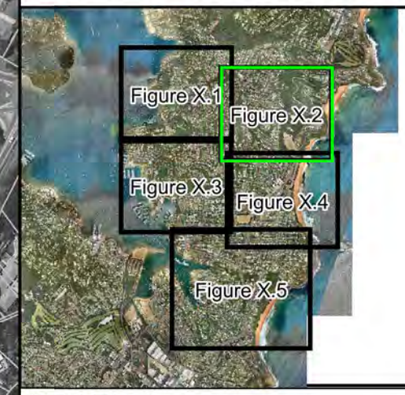
Figure 41.1: Preliminary True Hazard for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig41.1 - Haz for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

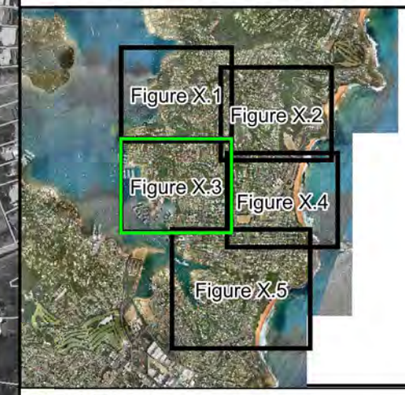
0 0.1 0.2 Km

Figure 41.2: Preliminary True Hazard for the 1% AEP Flood

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig41.2 - Haz for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

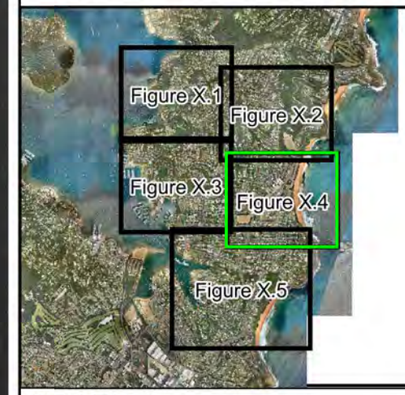
Figure 41.3: Preliminary True Hazard for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig41.3 - Haz for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoral Avenue
Coles Parade
Ocean Avenue
Cookmi Road
Robertson Road
Bromley Avenue
Ross Street
Nyola Road
Irrubel Road
Nullaburral Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

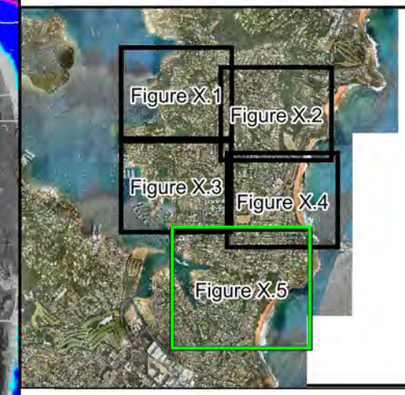
Figure 41.4: Preliminary True Hazard for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig41.4 - Haz for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

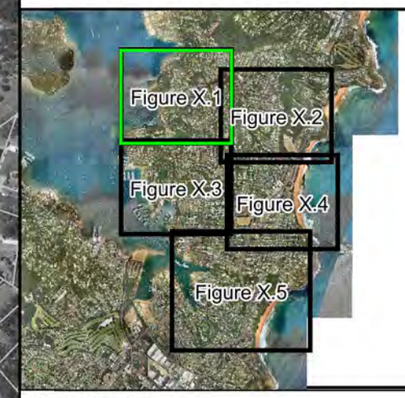
Figure 41.5: Preliminary True Hazard for the 1% AEP Flood

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig41.5 - Haz for 1%AEP Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

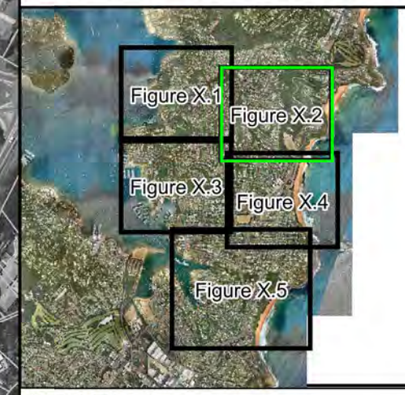
Figure 42.1: Preliminary True Hazard for the PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig42.1 - Haz for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

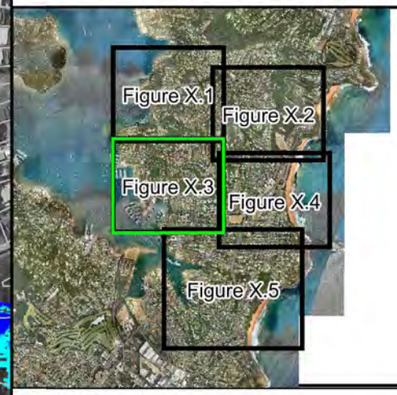
Figure 42.2: Preliminary True Hazard for the PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig42.2 - Haz for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

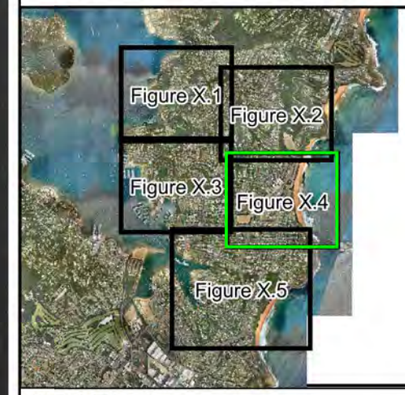
Figure 42.3: Preliminary True Hazard for the PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig42.3 - Haz for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

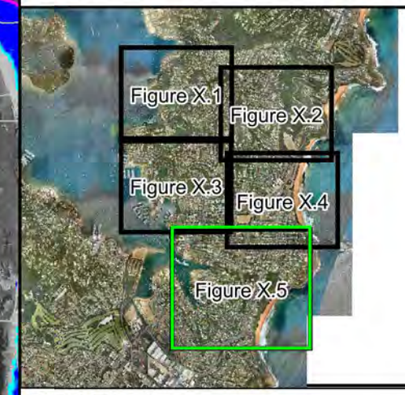
0 0.1 0.2 Km

Figure 42.4: Preliminary True Hazard for the PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig42.4 - Haz for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

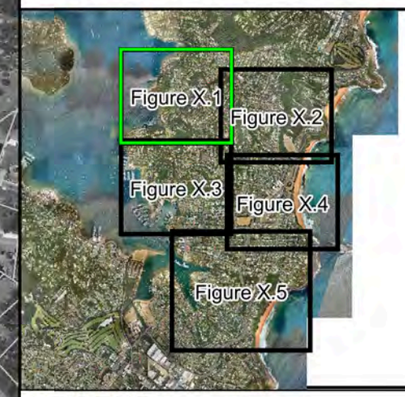
Km

Figure 42.5: Preliminary True Hazard for the PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig42.5 - Haz for PMF Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Flood Risk to Life Categories

- No Risk
- H1 - H2
- H3 - H4
- H5
- H6

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

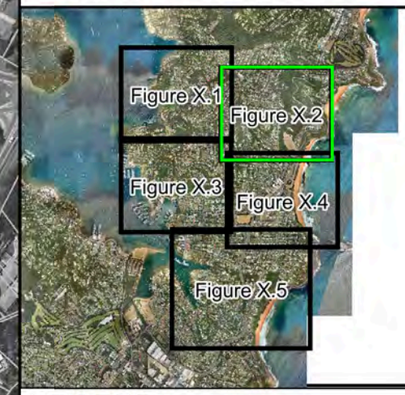
0 0.1 0.2 Km

Figure 43.1: Flood Risk to Life Categories for the PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig43.1 - Flood Risk to Life PMF.wor

NORTHERN BEACHES COUNCIL



LEGEND

Flood Risk to Life Categories

- No Risk
- H1 - H2
- H3 - H4
- H5
- H6

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 43.2:
Flood Risk to Life Categories for the PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig43.2 - Flood Risk to Life PMF.wor

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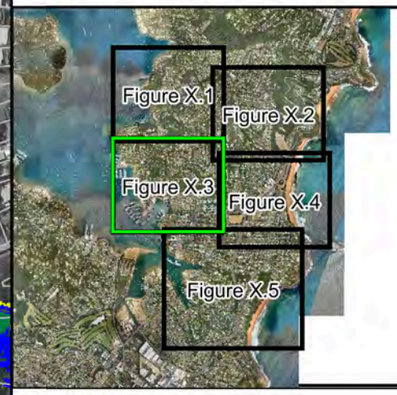

LEGEND

Flood Risk to Life Categories

- No Risk
- H1 - H2
- H3 - H4
- H5
- H6

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 43.3: Flood Risk to Life Categories for the PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig43.3 - Flood Risk to Life PMF.wor

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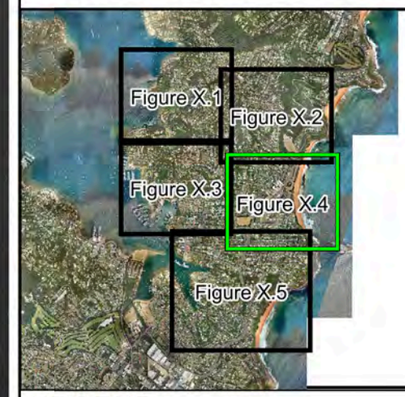

LEGEND

Flood Risk to Life Categories

- No Risk
- H1 - H2
- H3 - H4
- H5
- H6

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N W E S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 43.4: Flood Risk to Life Categories for the PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig43.4 - Flood Risk to Life PMF.wor

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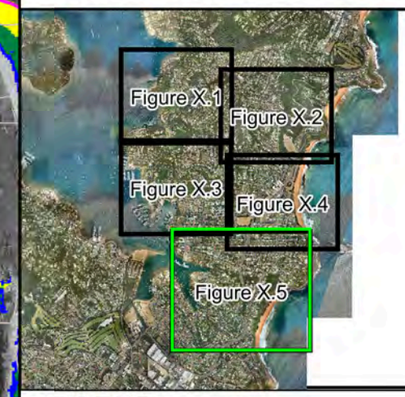

LEGEND

Flood Risk to Life Categories

- No Risk
- H1 - H2
- H3 - H4
- H5
- H6

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 43.5: Flood Risk to Life Categories for the PMF

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig43.5 - Flood Risk to Life PMF.wor

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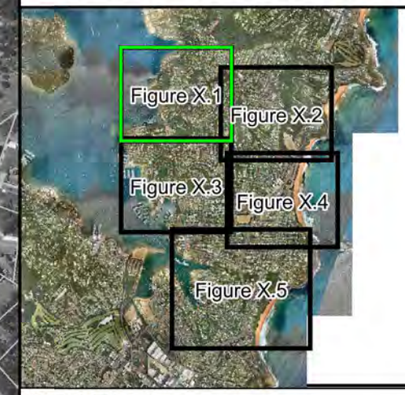


LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

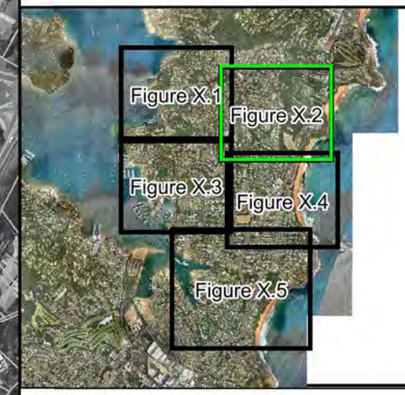
Km

Figure 44.1: 1% AEP Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig44.1 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

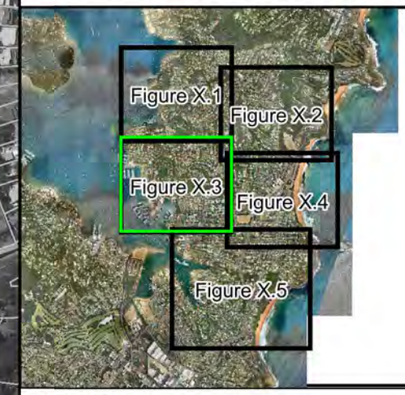
Figure 44.2: 1% AEP Hydraulic Categories

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig44.2 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

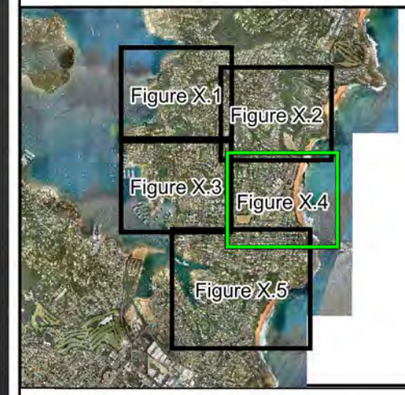
Km

Figure 44.3:
1% AEP Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig44.3 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

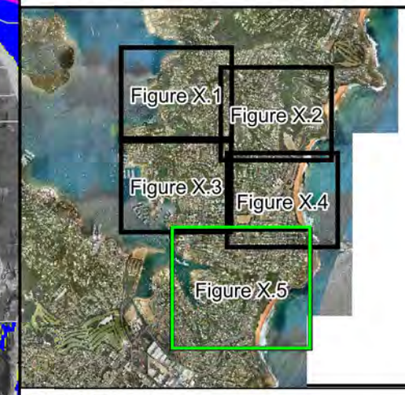
0 0.1 0.2 Km

Figure 44.4:
1% AEP Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig44.4 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 44.5: 1% AEP Hydraulic Categories

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig44.5 - 1% AEP Hydraulic Cat .wor

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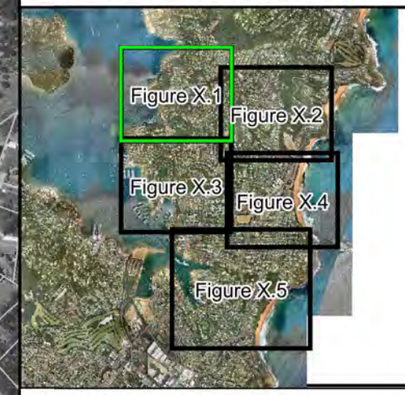


LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

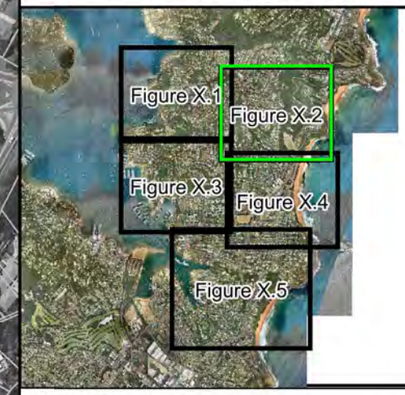
Km

Figure 45.1: PMF Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig45.1 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

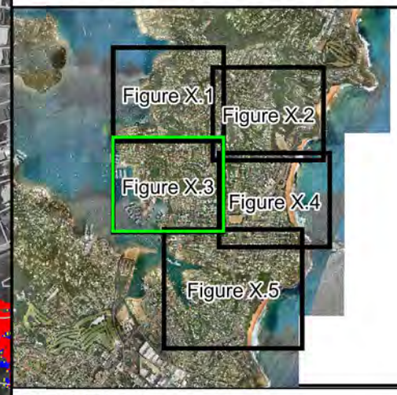
Km

Figure 45.2: PMF Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig45.2 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 45.3: PMF Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig45.3 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL

Pacific Ocean

LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 45.4: PMF Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig45.4 - PMF Hydraulic Cat .wor

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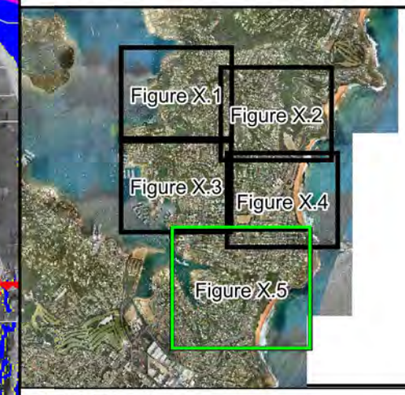


LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

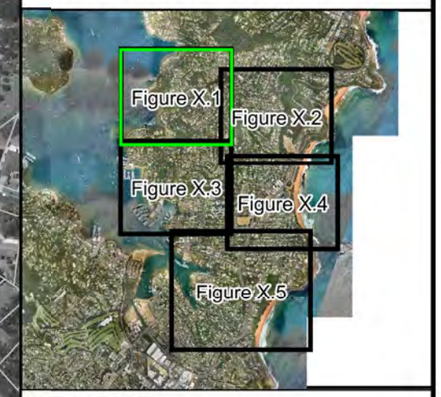
Km

Figure 45.5: PMF Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig45.5 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

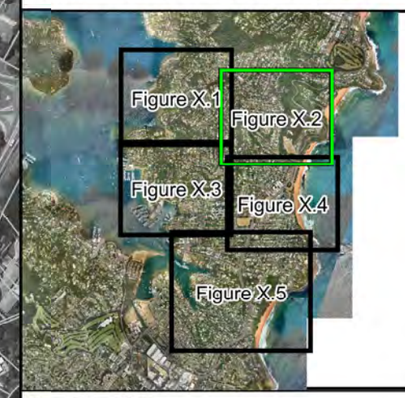
Figure 46.1: Flood Level Difference Mapping for the 1% AEP Flood with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig46.1 - 1%AEP 2050 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 46.2: Flood Level Difference Mapping for the 1% AEP Flood with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig46.2 - 1%AEP 2050 Ocean Level Flood.wor

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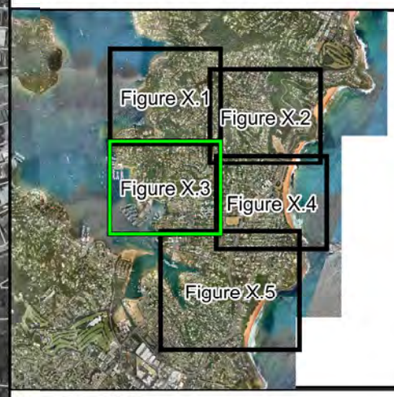

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 46.3: Flood Level Difference Mapping for the 1% AEP Flood with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig46.3 - 1%AEP 2050 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL

Pacific Ocean

Neptune Road
Ismona Avenue
Foamcrest Avenue
Cookoin Road
Ocean Avenue
Coles Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calver Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 46.4: Flood Level Difference Mapping for the 1% AEP Flood with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig46.4 - 1%AEP 2050 Ocean Level Flood.wor

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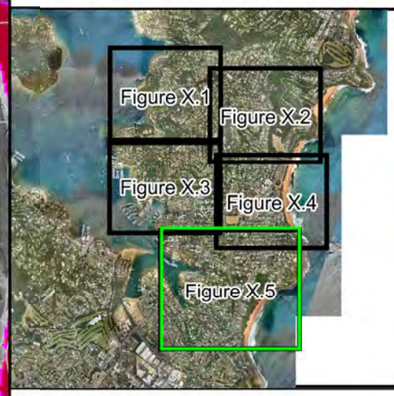

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 46.5: Flood Level Difference Mapping for the 1% AEP Flood with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig46.5 - 1%AEP 2050 Ocean Level Flood.wor

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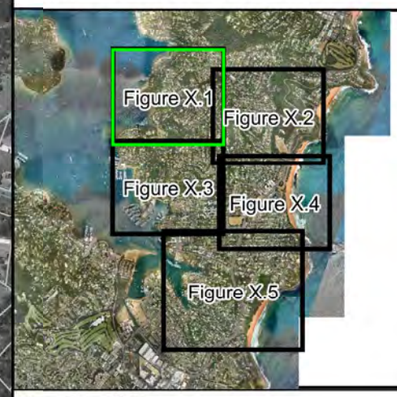

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 47.1:
Flood Level Difference Mapping for the PMF with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig47.1 - PMF 2050 Ocean Level Flood.wor

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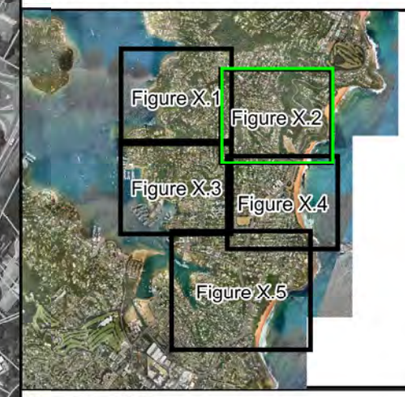

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 47.2:
Flood Level Difference Mapping for the PMF with 0.4m increase in Ocean Level

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig47.2 - PMF 2050 Ocean Level Flood.wor

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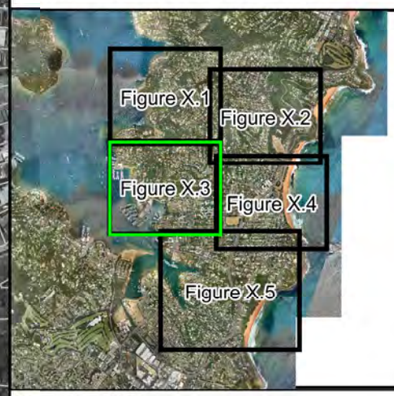


LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 47.3:
Flood Level Difference Mapping for the PMF with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig47.3 - PMF 2050 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL

Pacific Ocean

Neptune Road
Ismona Avenue
Foamcrest Avenue
Coles Parade
Ocean Avenue
Cookvin Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburral Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Medalerca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

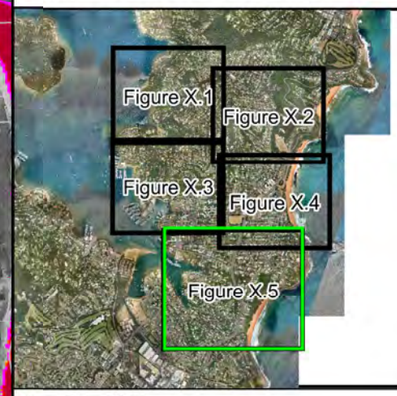
Km

Figure 47.4: Flood Level Difference Mapping for the PMF with 0.4m increase in Ocean Level

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig47.4 - PMF 2050 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

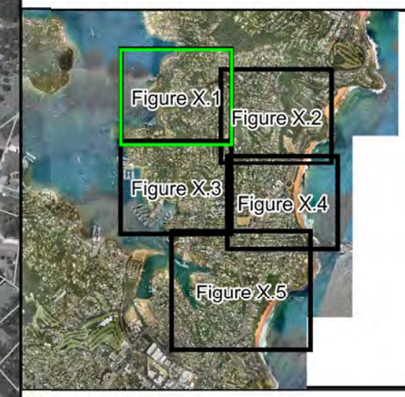
Figure 47.5:
Flood Level Difference Mapping for the PMF with 0.4m increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig47.5 - PMF 2050 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

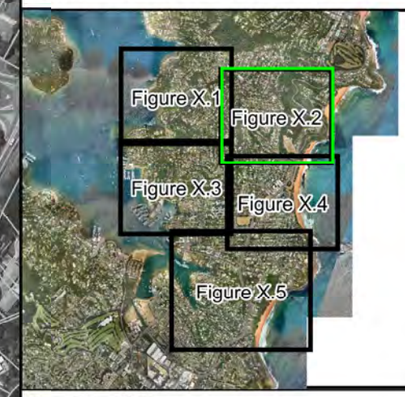
Figure 48.1: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig48.1 - 1%AEP 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

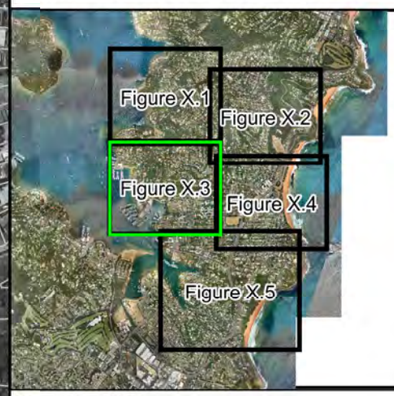
Figure 48.2: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig48.2 - 1%AEP 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 48.3: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig48.3 - 1%AEP 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

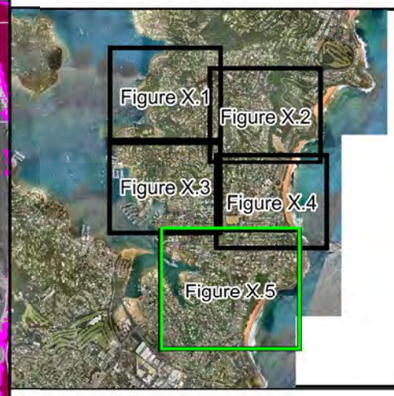
Figure 48.4: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig48.4 - 1%AEP 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

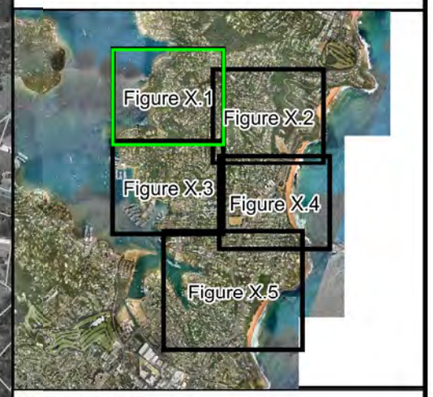
Figure 48.5:
Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig48.5 - 1%AEP 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

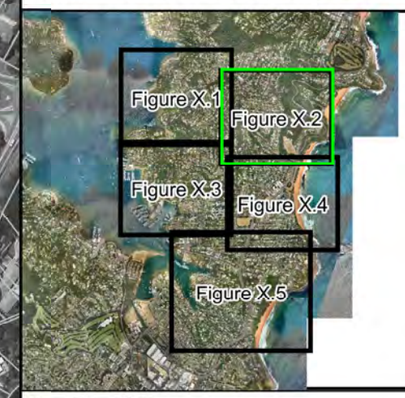
Km

Figure 49.1:
Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig49.1 - PMF 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

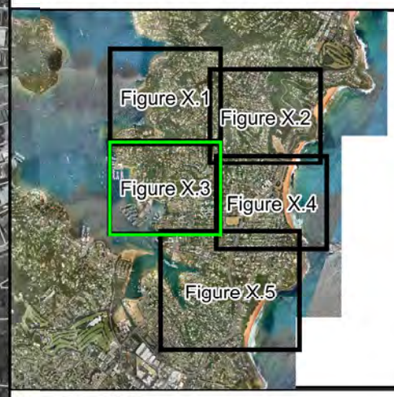
Figure 49.2:
Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig49.2 - PMF 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

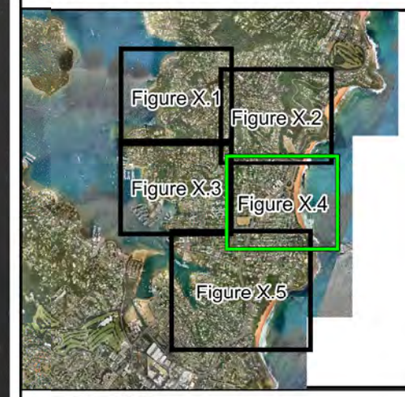
Figure 49.3:
Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig49.3 - PMF 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Foamcrest Avenue
Coles Parade
Ocean Avenue
Cookvin Road
Irrubel Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

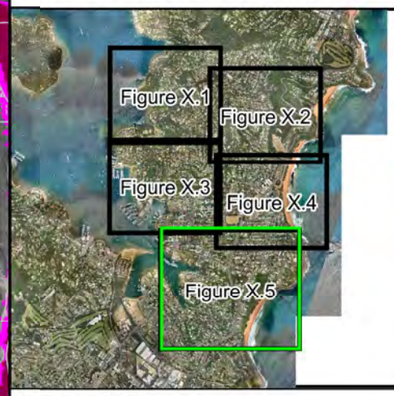
Km

Figure 49.4:
Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig49.4 - PMF 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

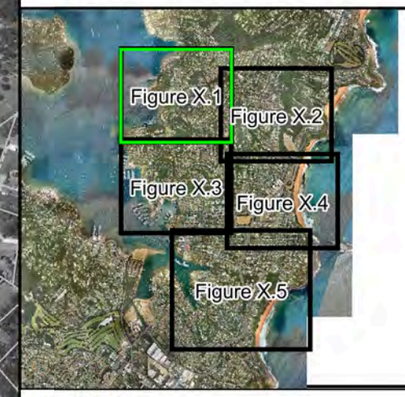
Figure 49.5:
Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig49.5 - PMF 2100 Ocean Level Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

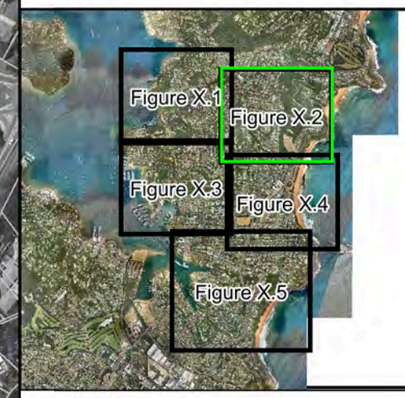
Figure 50.1: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig50.1 - 1%AEP 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

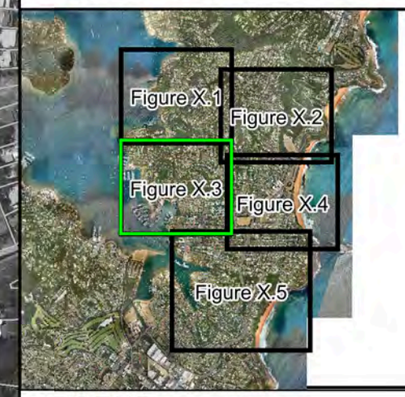
Figure 50.2: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig50.2 - 1%AEP 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

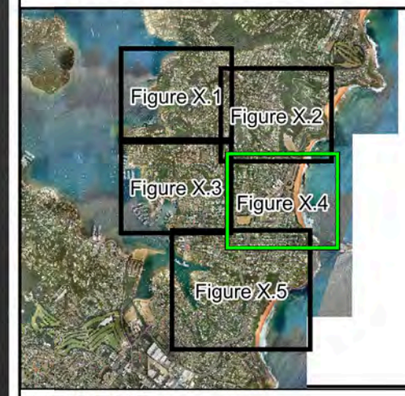
Figure 50.3: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig50.3 - 1%AEP 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Foamcrest Avenue
Coolum Road
Ocean Avenue
Coles Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

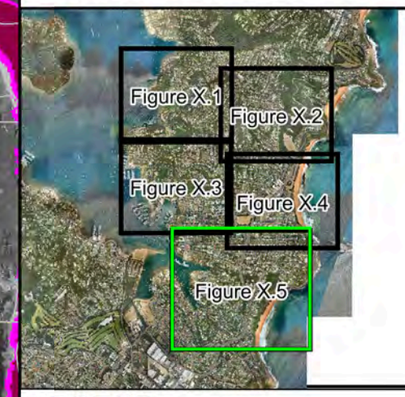
Figure 50.4: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig50.4 - 1%AEP 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

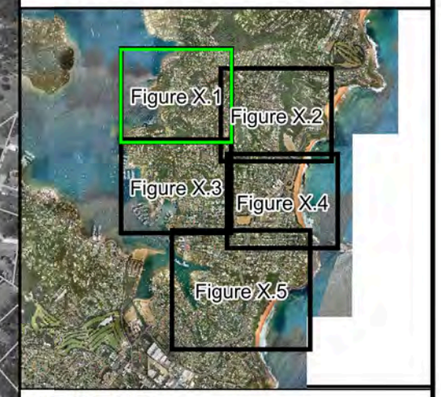
Figure 50.5: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig50.5 - 1%AEP 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 51.1: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

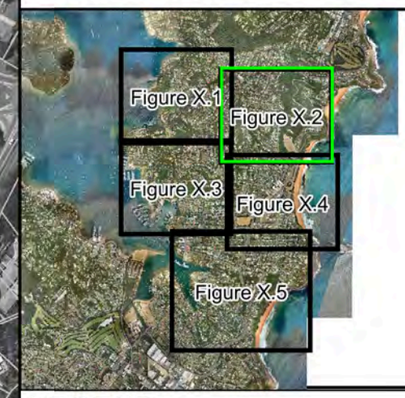
Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig51.1 - PMF 2100 TW CC10 diff Flood.wor

Murrabooka Street
Loomah Street
Goolinda Place
Lower Plateau Road
Plateau Road
Terrana Street
Grandview Drive
De Laurel Avenue
Algona Street
Joanne Place
Elvina Avenue
Herbert Avenue
Prince Alfred Parade
Birubi Cr
yle Street

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

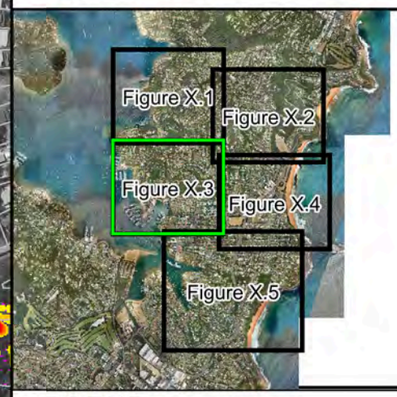
Figure 51.2: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig51.2 - PMF 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

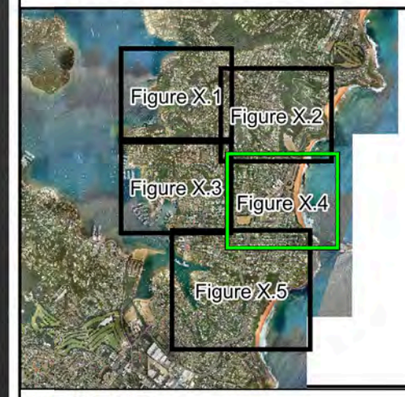
Figure 51.3: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig51.3 - PMF 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

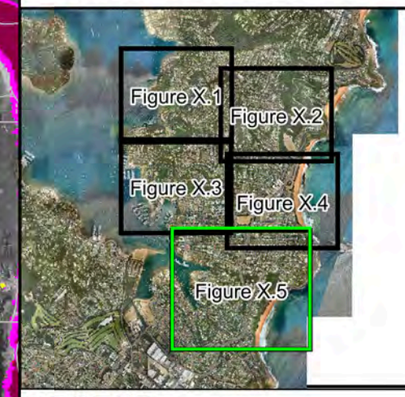
0 0.1 0.2 Km

Figure 51.4:
Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig51.4 - PMF 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

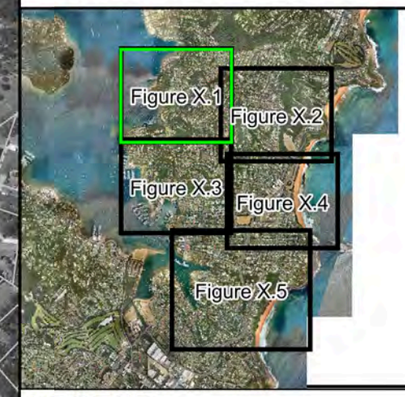
Figure 51.5: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 10% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig51.5 - PMF 2100 TW CC10 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

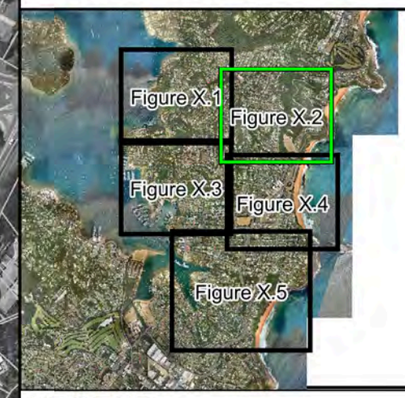
Km

Figure 52.1:
Peak Floodwater Depths for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig52.1 - Depths for 20%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 52.2: Peak Floodwater Depths for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig52.2 - Depths for 20%AEP TW2100 CC30.wor

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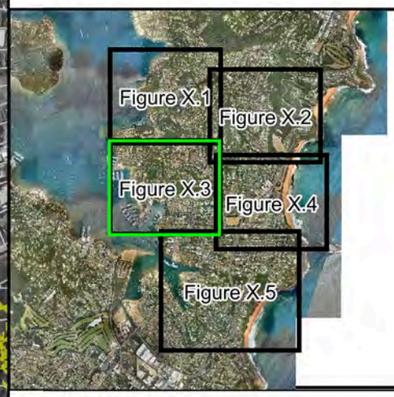

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 52.3: Peak Floodwater Depths for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig52.3 - Depths for 20%AEP TW2100 CC30.wor

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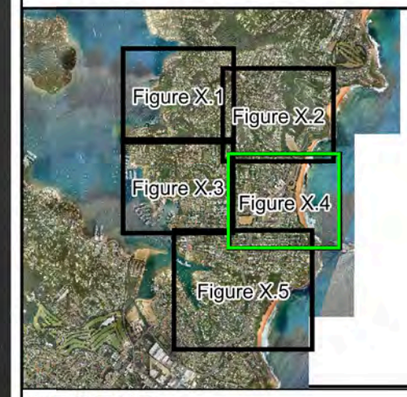


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

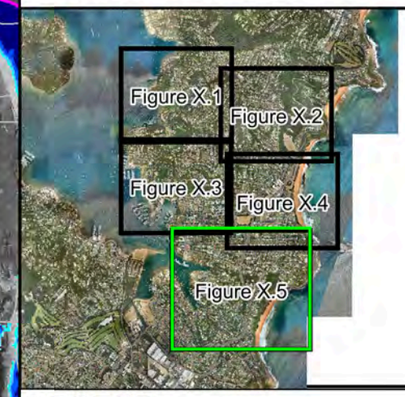
0 0.1 0.2 Km

Figure 52.4: Peak Floodwater Depths for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig52.4 - Depths for 20%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

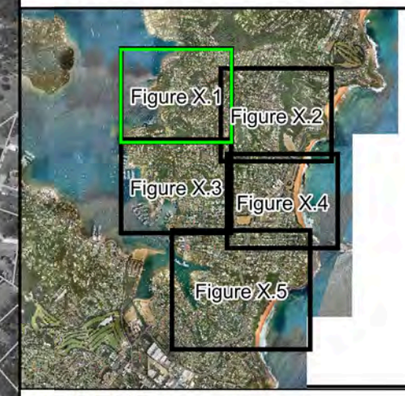
Km

Figure 52.5: Peak Floodwater Depths for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig52.5 - Depths for 20%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

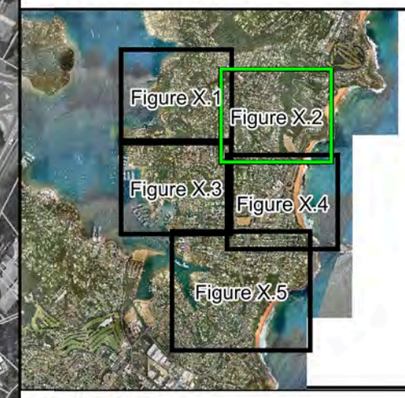
0 0.1 0.2 Km

Figure 53.1: Peak Floodwater Depths for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig53.1 - Depths for 10%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

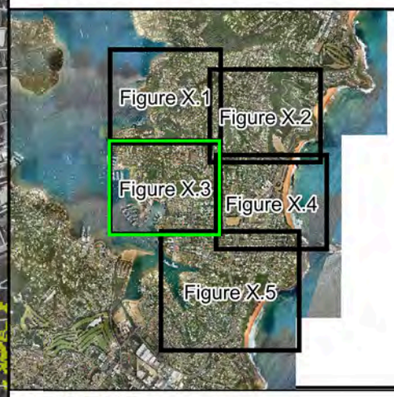
0 0.1 0.2 Km

Figure 53.2: Peak Floodwater Depths for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig53.2 - Depths for 10%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

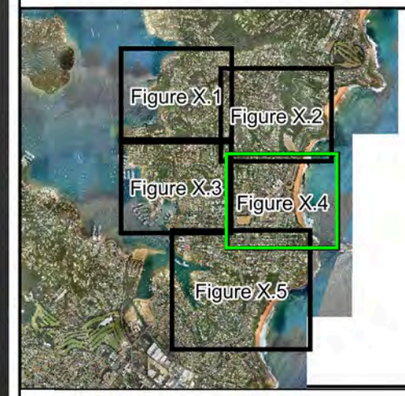
Figure 53.3: Peak Floodwater Depths for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig53.3 - Depths for 10%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 53.4:
Peak Floodwater Depths for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig53.4 - Depths for 10%AEP TW2100 CC30.wor

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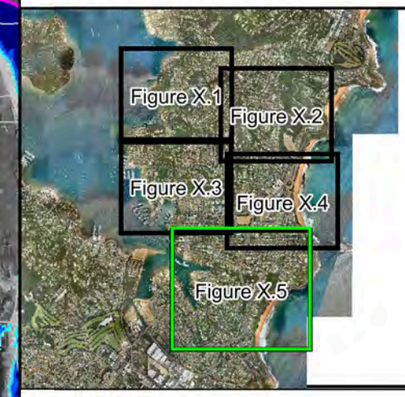

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 53.5: Peak Floodwater Depths for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig53.5 - Depths for 10%AEP TW2100 CC30.wor

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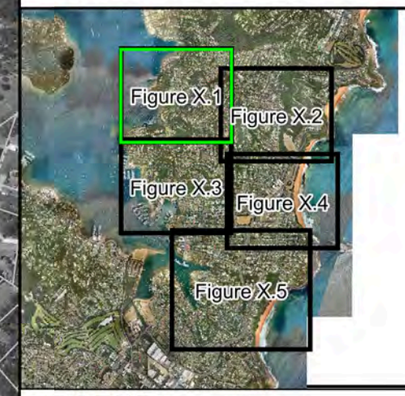


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

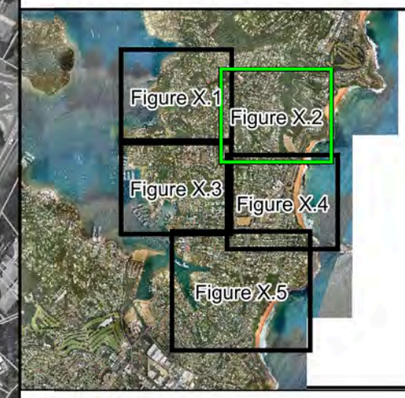
Km

Figure 54.1: Peak Floodwater Depths for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig54.1 - Depths for 5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 54.2:
Peak Floodwater Depths for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig54.2 - Depths for 5%AEP TW2100 CC30.wor

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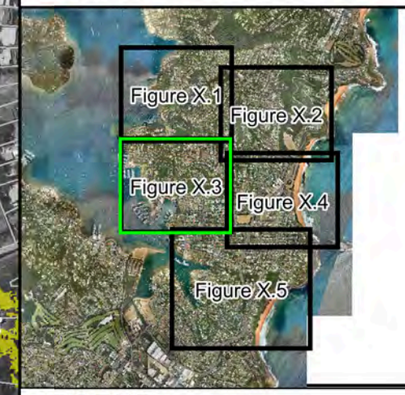


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

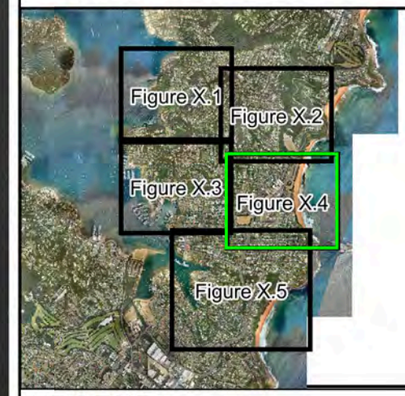
0 0.1 0.2 Km

Figure 54.3: Peak Floodwater Depths for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig54.3 - Depths for 5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 54.4: Peak Floodwater Depths for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig54.4 - Depths for 5%AEP TW2100 CC30.wor

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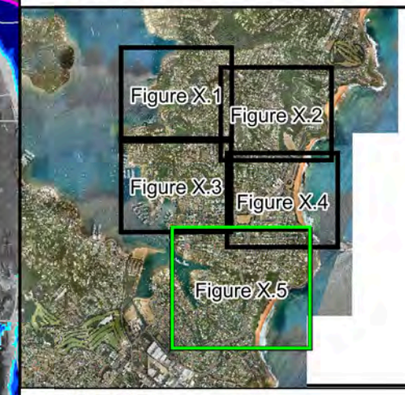

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3 Km

Figure 54.5: Peak Floodwater Depths for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig54.5 - Depths for 5%AEP TW2100 CC30.wor

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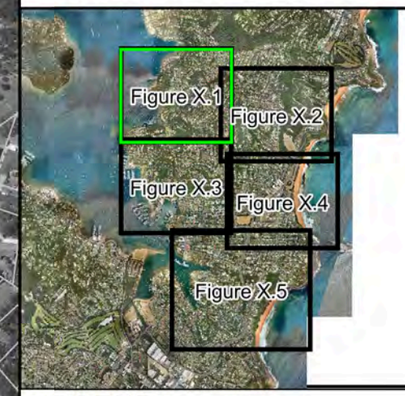

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 55.1: Peak Floodwater Depths for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig55.1 - Depths for 2%AEP TW2100 CC30.wor

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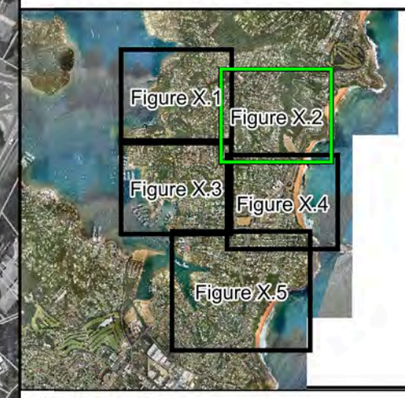

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 55.2: Peak Floodwater Depths for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig55.2 - Depths for 2%AEP TW2100 CC30.wor

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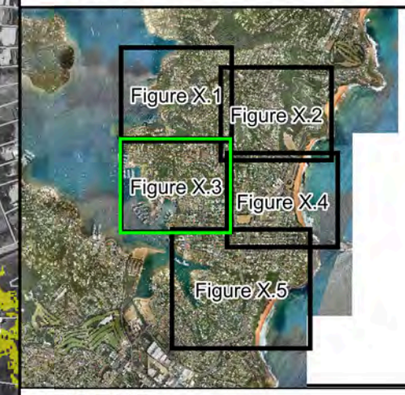


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

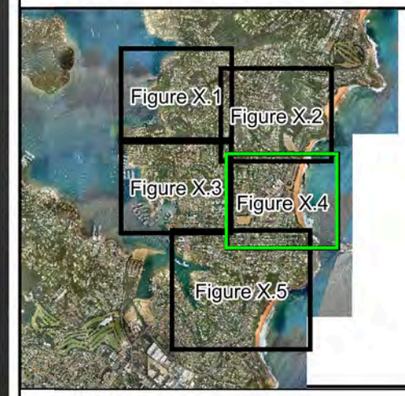
Figure 55.3: Peak Floodwater Depths for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig55.3 - Depths for 2%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 55.4:
Peak Floodwater Depths for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig55.4 - Depths for 2%AEP TW2100 CC30.wor

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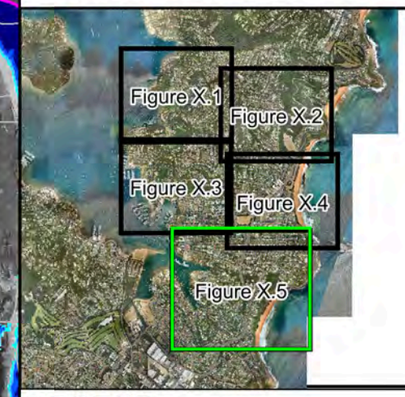

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 55.5: Peak Floodwater Depths for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig55.5 - Depths for 2%AEP TW2100 CC30.wor

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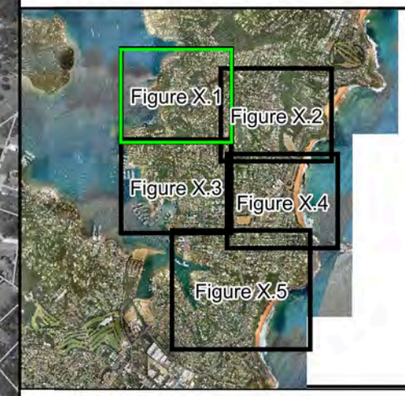


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

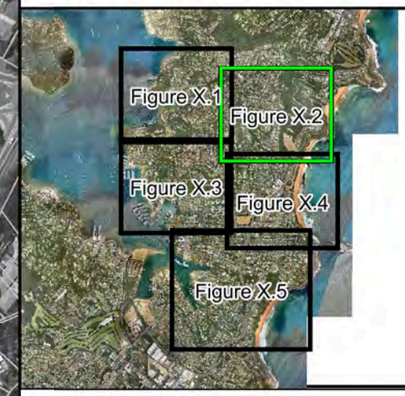
Km

Figure 56.1: Peak Floodwater Depths for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig56.1 - Depths for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

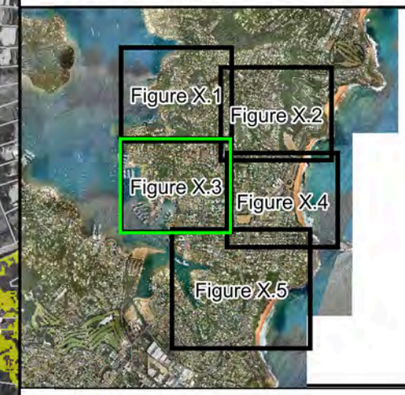
Figure 56.2: Peak Floodwater Depths for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig56.2 - Depths for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

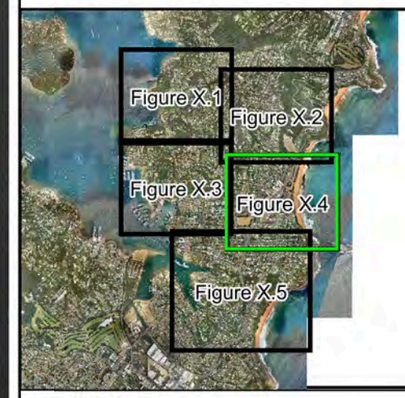
Figure 56.3: Peak Floodwater Depths for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig56.3 - Depths for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

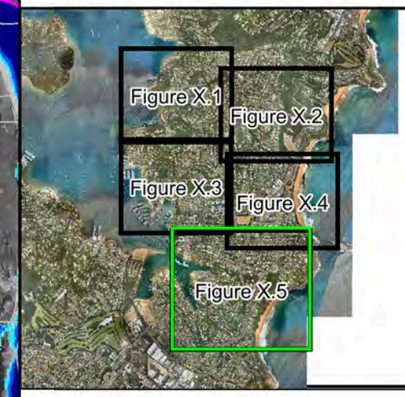
0 0.1 0.2 Km

Figure 56.4: Peak Floodwater Depths for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig56.4 - Depths for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 56.5: Peak Floodwater Depths for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig56.5 - Depths for 1%AEP TW2100 CC30.wor

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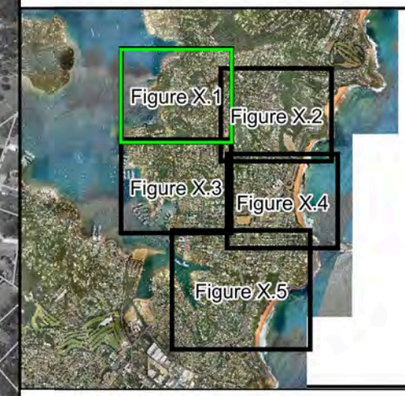


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 57.1: Peak Floodwater Depths for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

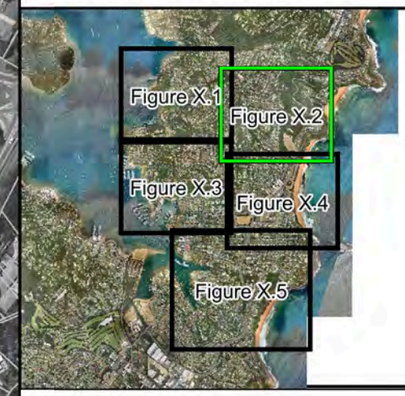
Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig57.1 - Depths for 0.5%AEP TW2100 CC30.wor

Narabang Way
Murrabooka Street
Loomba Street
Coonda Place
Lower Plateau Road
Plateau Road
Terama Street
Grandview Drive
De Laurel Avenue
Algona Street
Joanne Place
Elvina Avenue
Herbert Avenue
Prince Alfred Parade
Birubi Cres
yle Street

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

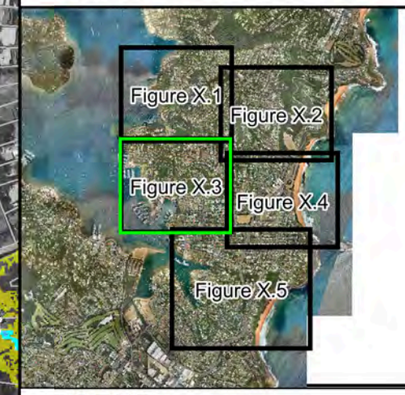
Figure 57.2: Peak Floodwater Depths for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig57.2 - Depths for 0.5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
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Scale 1:4,000 (at A3)

0 0.1 0.2 Km

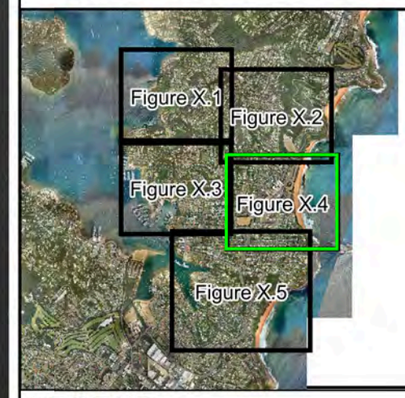
Figure 57.3: Peak Floodwater Depths for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig57.3 - Depths for 0.5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

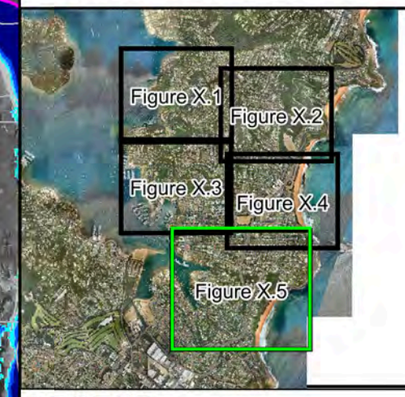
0 0.1 0.2 Km

Figure 57.4: Peak Floodwater Depths for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig57.4 - Depths for 0.5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

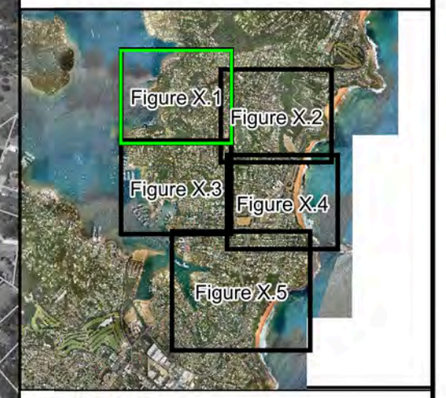
Figure 57.5:
Peak Floodwater Depths for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig57.5 - Depths for 0.5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

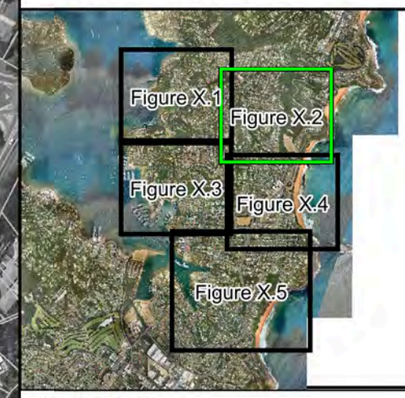
Figure 58.1: Peak Floodwater Depths for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig58.1 - Depths for 0.2%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

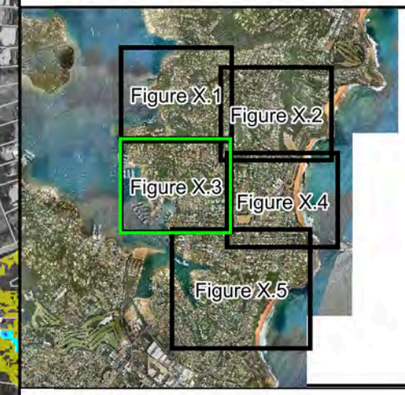
Km

Figure 58.2:
Peak Floodwater Depths for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig58.2 - Depths for 0.2%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

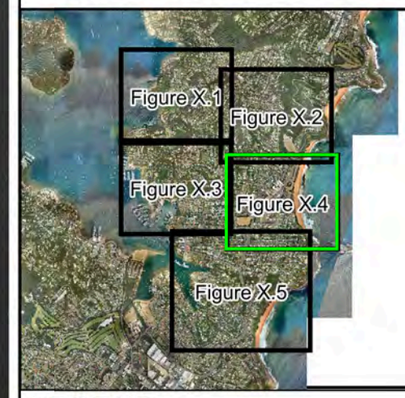
Figure 58.3: Peak Floodwater Depths for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig58.3 - Depths for 0.2%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

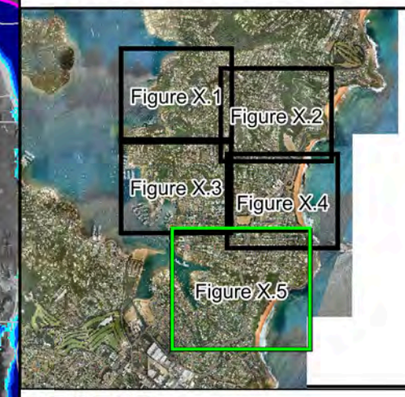
0 0.1 0.2 Km

Figure 58.4: Peak Floodwater Depths for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig58.4 - Depths for 0.2%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

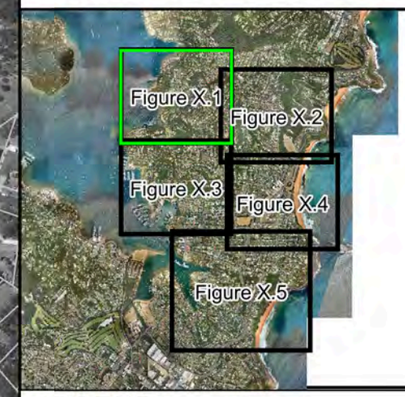
Figure 58.5: Peak Floodwater Depths for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig58.5 - Depths for 0.2%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

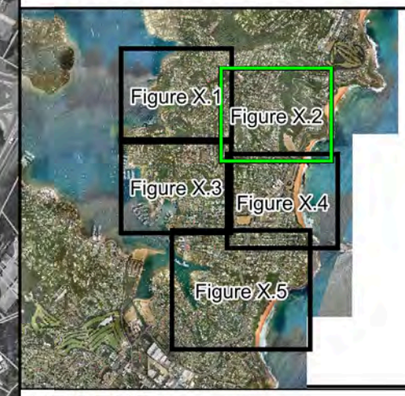
Figure 59.1: Peak Floodwater Depths for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig59.1 - Depths for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

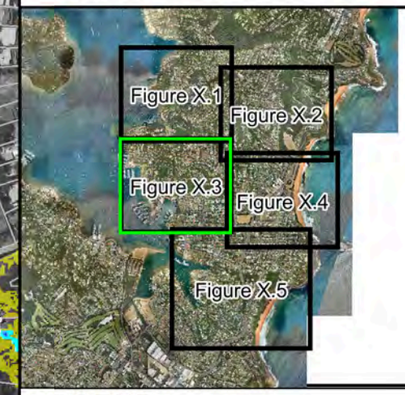
Figure 59.2: Peak Floodwater Depths for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig59.2 - Depths for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

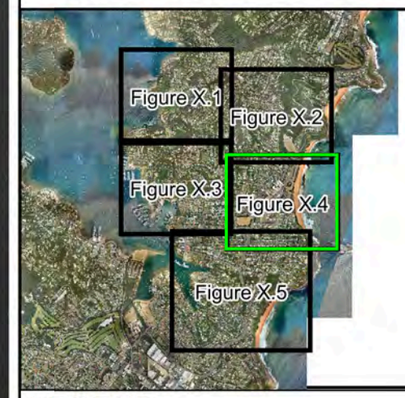
Figure 59.3: Peak Floodwater Depths for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig59.3 - Depths for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

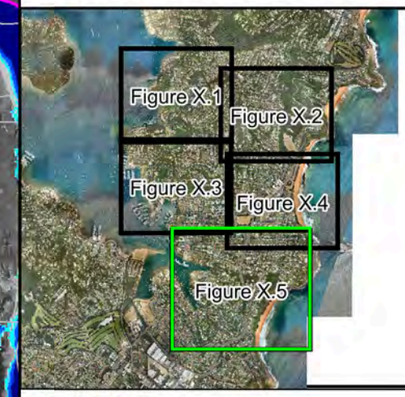
0 0.1 0.2 Km

Figure 59.4: Peak Floodwater Depths for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig59.4 - Depths for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

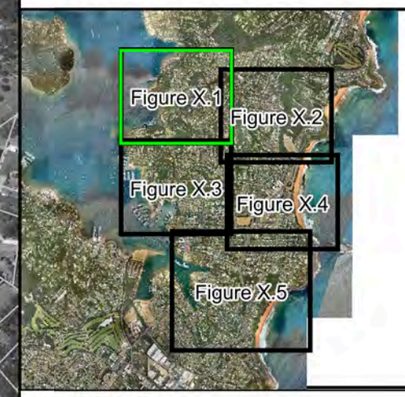
Km

Figure 59.5:
Peak Floodwater Depths for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig59.5 - Depths for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 60.1:
Peak Floodwater Depths for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig60.1 - Depths for PMF TW2100 CC30.wor

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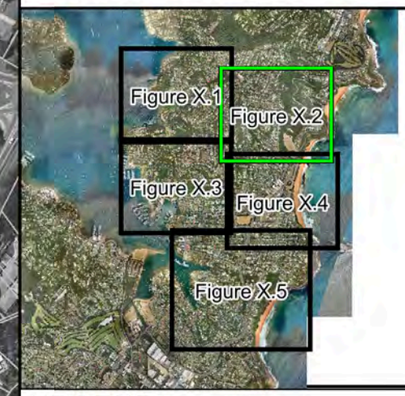


LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

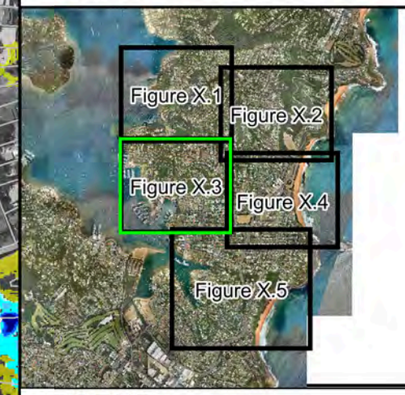
0 0.1 0.2 Km

Figure 60.2: Peak Floodwater Depths for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig60.2 - Depths for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 60.3: Peak Floodwater Depths for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig60.3 - Depths for PMF TW2100 CC30.wor

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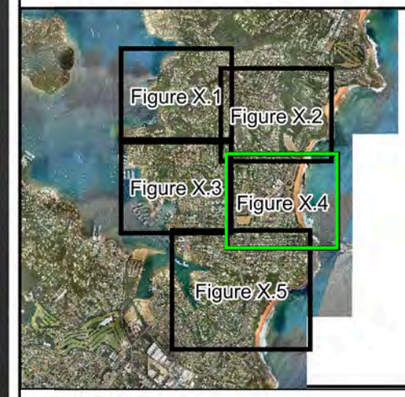

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 60.4:
Peak Floodwater Depths for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig60.4 - Depths for PMF TW2100 CC30.wor

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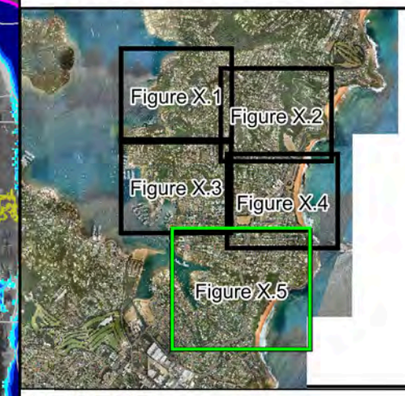

LEGEND

Floodwater Inundation Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Local Stormwater

Notes:

Flood mapping shows areas where depths are predicted to exceed 0.15m or VxD is greater than 0.3m2/s indicating potential risk to personal safety and/or damage to property during the nominated design flood.

The yellow areas are local stormwater inundation extents and shows additional areas exposed to a depth of less than 0.15m but a VxD greater than 0.025m2/s

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 60.5:
Peak Floodwater Depths for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig60.5 - Depths for PMF TW2100 CC30.wor

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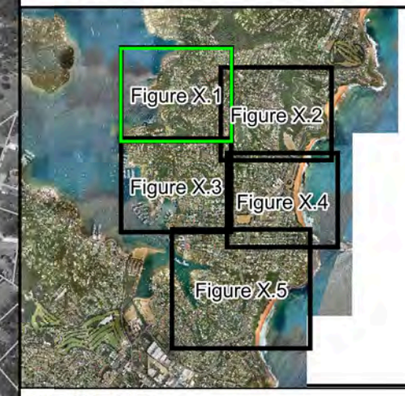

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 61.1:
Peak Floodwater Velocities for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig61.1 - Velocities for 1%AEP TW2100 CC30.wor

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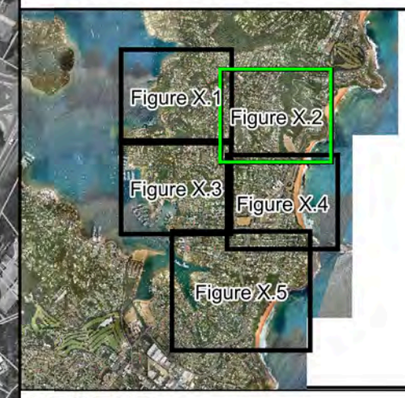


LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

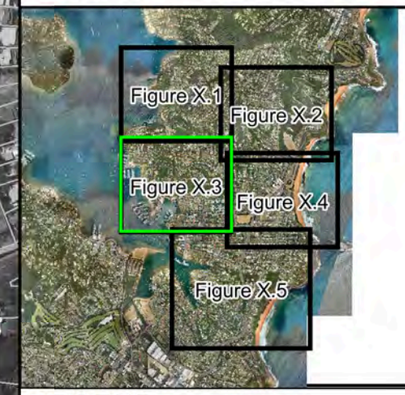
0 0.1 0.2
Km

Figure 61.2: Peak Floodwater Velocities for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig61.2 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

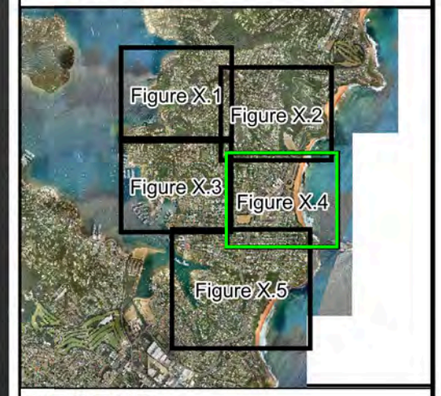
0 0.1 0.2 Km

Figure 61.3: Peak Floodwater Velocities for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig61.3 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Roslindale Avenue
Ocean Avenue
Coles Parade
Robertson Road
Bromley Avenue
Ross Street
Myola Road
Cooyong Road
Irrubel Road
Nullabura Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Medaluca Street

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

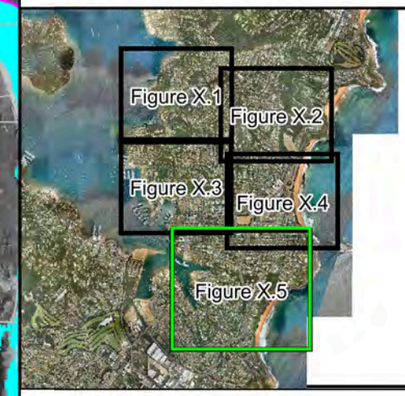
0 0.1 0.2 Km

Figure 61.4:
Peak Floodwater Velocities for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig61.4 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

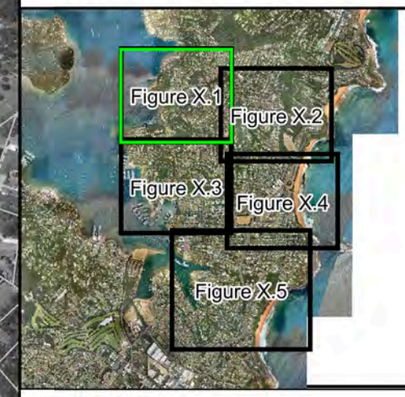
0 0.15 0.3
Km

Figure 61.5:
Peak Floodwater Velocities for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig61.5 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

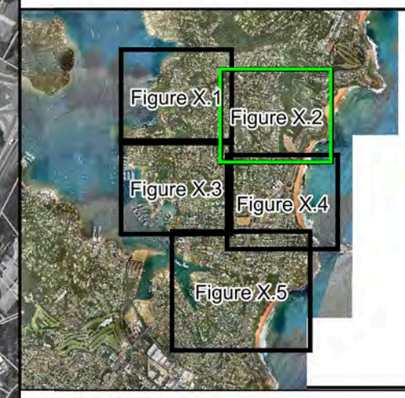
0 0.1 0.2
Km

Figure 62.1:
Peak Floodwater Velocities for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig62.1 - Velocities for 0.5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2
Km

Figure 62.2:
Peak Floodwater Velocities for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig62.2 - Velocities for 0.5%AEP TW2100 CC30.wor

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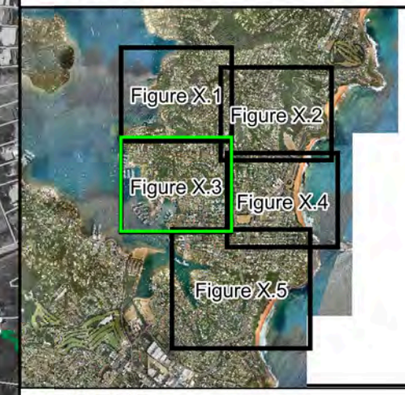


LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

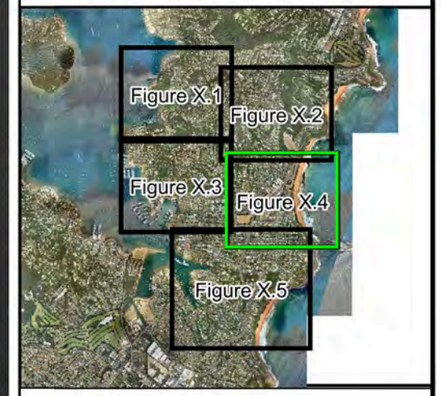
0 0.1 0.2 Km

Figure 62.3:
Peak Floodwater Velocities for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig62.3 - Velocities for 0.5%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosthorpe Avenue
Ocean Avenue
Cross Parade
Robertson Road
Bromley Avenue
Ross Street
Myola Road
Coolum Road
Irrubel Road
Nullabura Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 62.4:
Peak Floodwater Velocities for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig62.4 - Velocities for 0.5%AEP TW2100 CC30.wor

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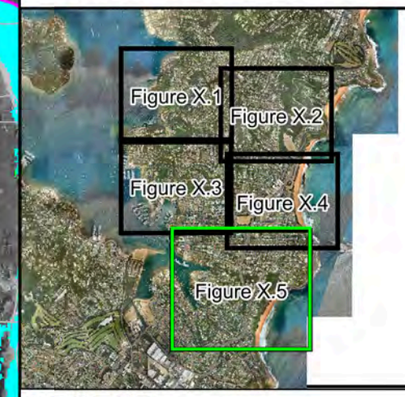

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3
Km

Figure 62.5: Peak Floodwater Velocities for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig62.5 - Velocities for 0.5%AEP TW2100 CC30.wor

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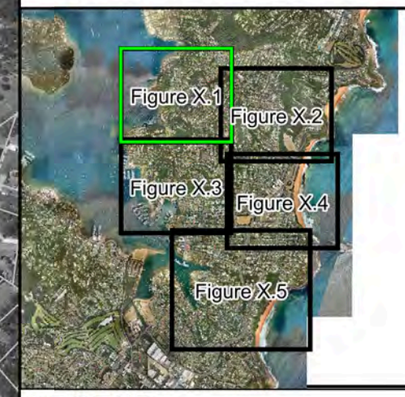

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 63.1: Peak Floodwater Velocities for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig63.1 - Velocities for 1%AEP TW2100 CC30.wor

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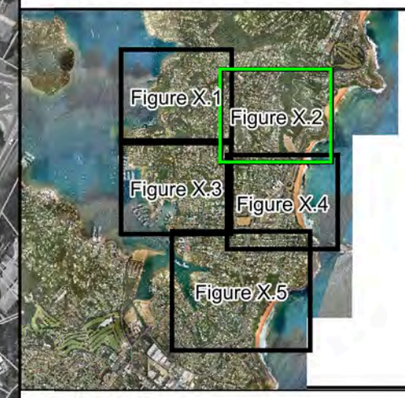


LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

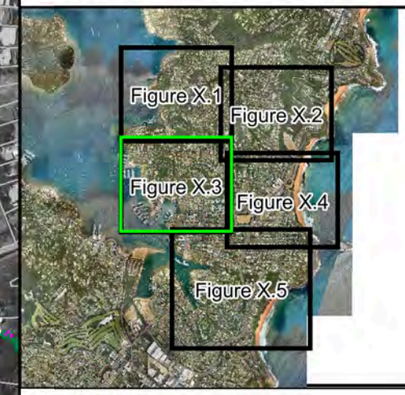
0 0.1 0.2
Km

Figure 63.2:
Peak Floodwater Velocities for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig63.2 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

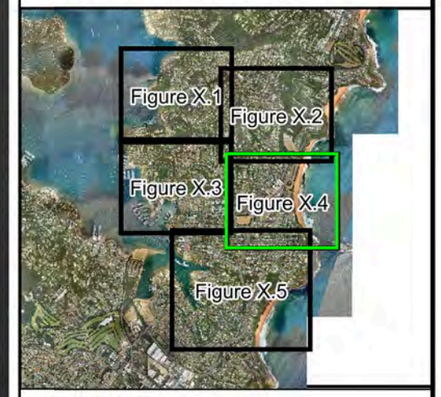
Figure 63.3:
Peak Floodwater Velocities for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig63.3 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fontenoy Avenue
Ocean Avenue
Coras Parade
Cooyong Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

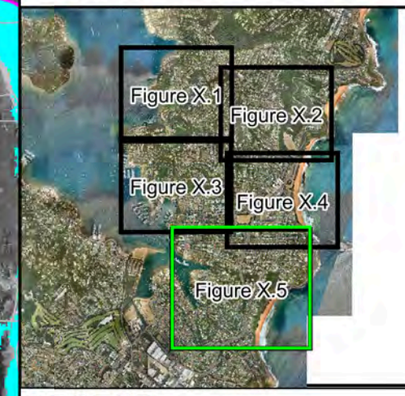
Scale 1:4,000 (at A3)
0 0.1 0.2
Km

Figure 63.4:
Peak Floodwater Velocities for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig63.4 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

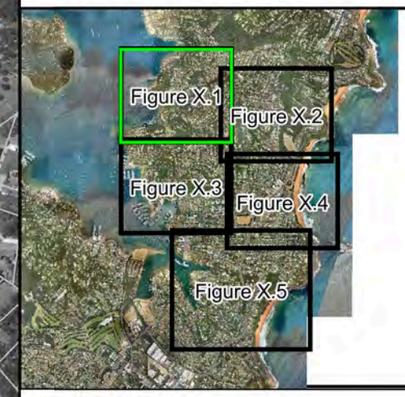
Km

Figure 63.5:
Peak Floodwater Velocities for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig63.5 - Velocities for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

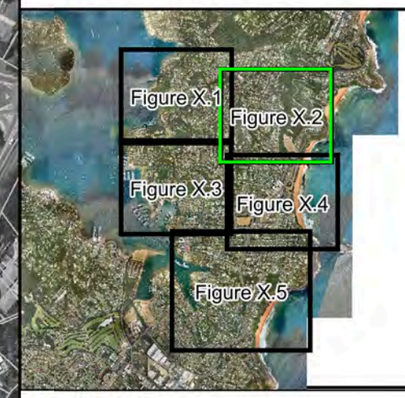
0 0.1 0.2
Km

Figure 64.1:
Peak Floodwater Velocities for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig64.1 - Velocities for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

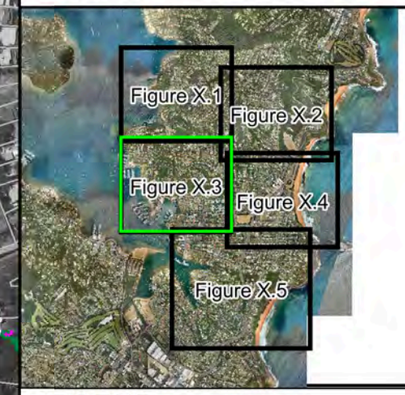
0 0.1 0.2
Km

Figure 64.2:
Peak Floodwater Velocities for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig64.2 - Velocities for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

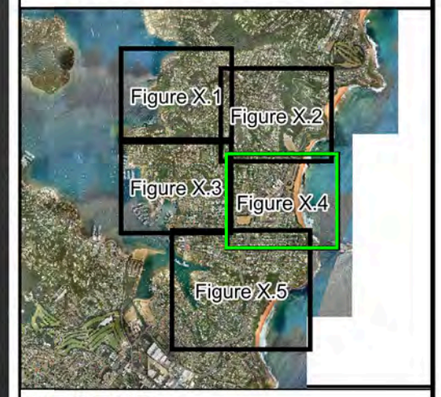
0 0.1 0.2 Km

Figure 64.3:
Peak Floodwater Velocities for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig64.3 - Velocities for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fontenoid Avenue
Ocean Avenue
Coast Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Cooyong Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

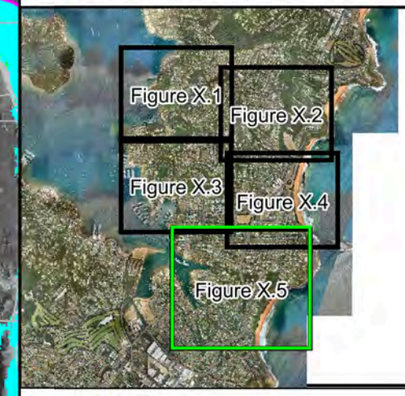
0 0.1 0.2
Km

Figure 64.4:
Peak Floodwater Velocities for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig64.4 - Velocities for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

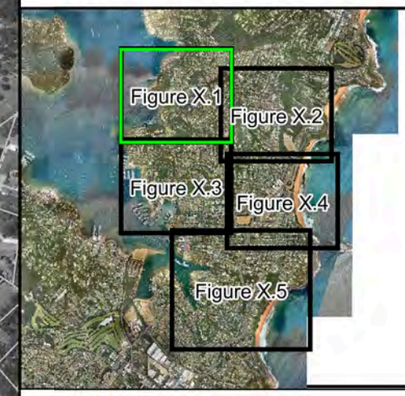
Km

Figure 64.5:
Peak Floodwater Velocities for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig64.5 - Velocities for 0.1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N

W E

S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

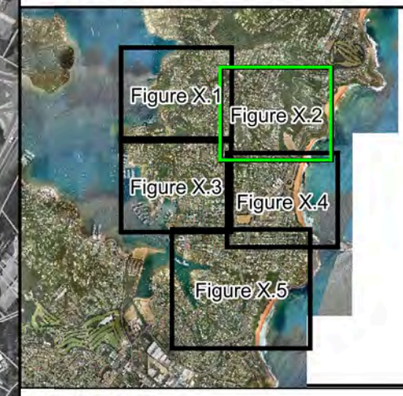
Figure 65.1:
Peak Floodwater Velocities for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig65.1 - Velocities for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

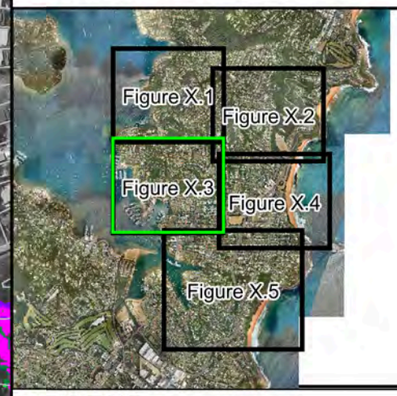
0 0.1 0.2
Km

Figure 65.2:
Peak Floodwater Velocities for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig65.2 - Velocities for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

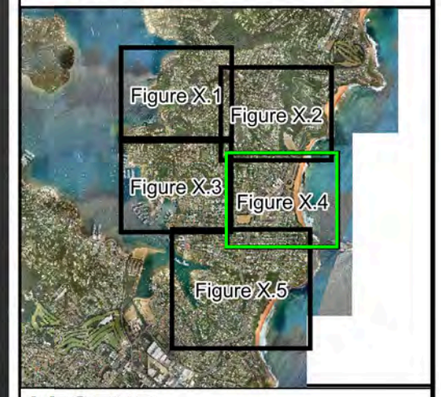
0 0.1 0.2 Km

Figure 65.3:
Peak Floodwater Velocities for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig65.3 - Velocities for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

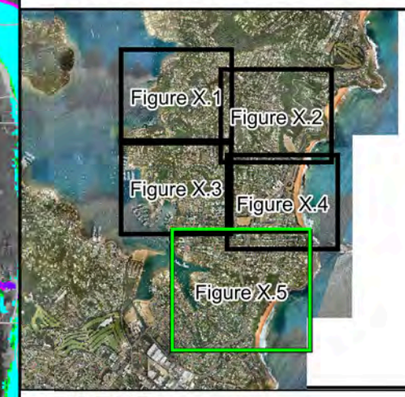
0 0.1 0.2 Km

Figure 65.4:
Peak Floodwater Velocities for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig65.4 - Velocities for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Velocities (m/s)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 65.5:
Peak Floodwater Velocities for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig65.5 - Velocities for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL

LEGEND

- Flood Surface Profile
- Chainage Point (m)

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:13,000 (at A3)

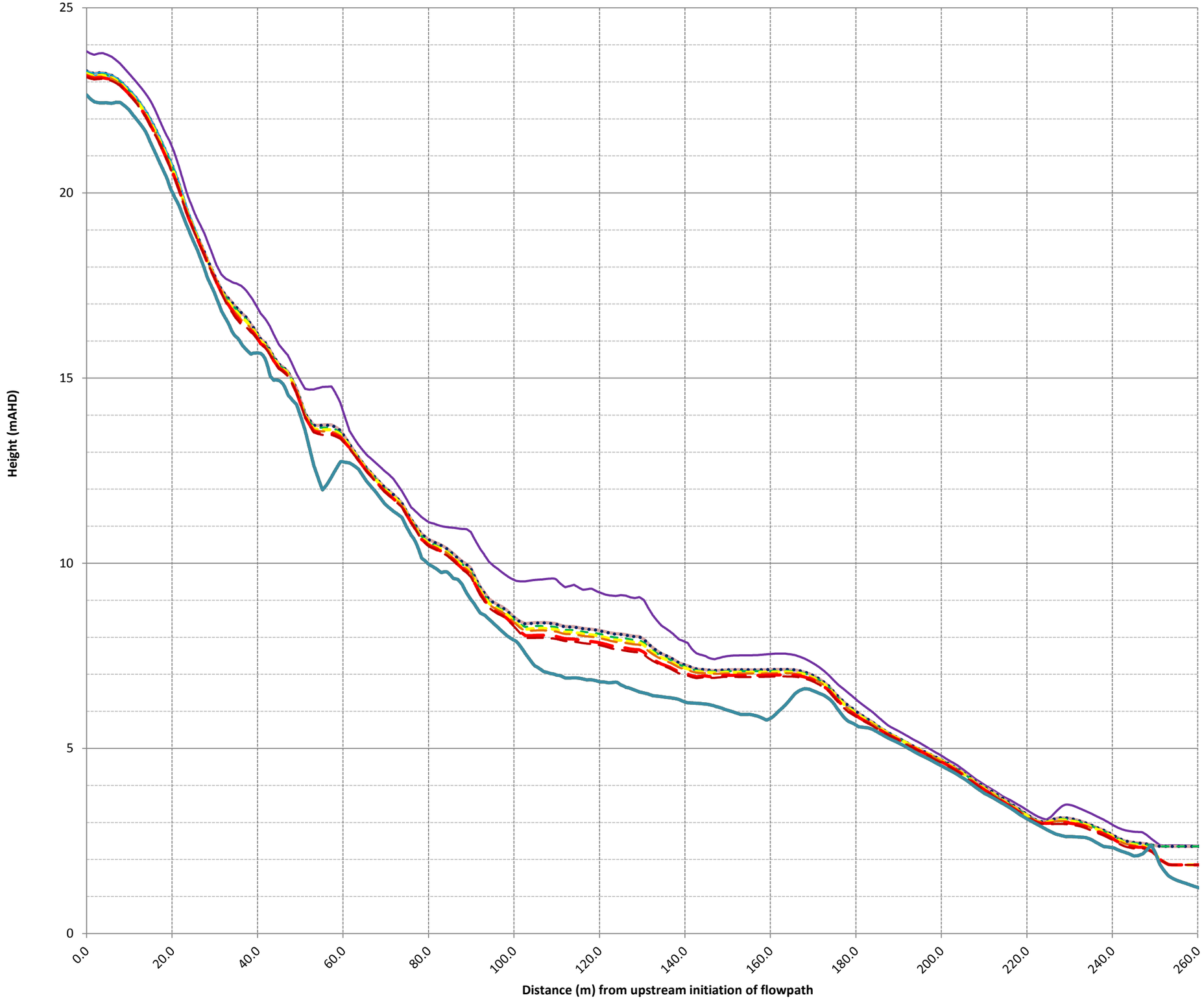
0 0.4 0.8

Km

Figure 66:
Flood Profiles for 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig66 - Flood Profiles for Events.wor



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

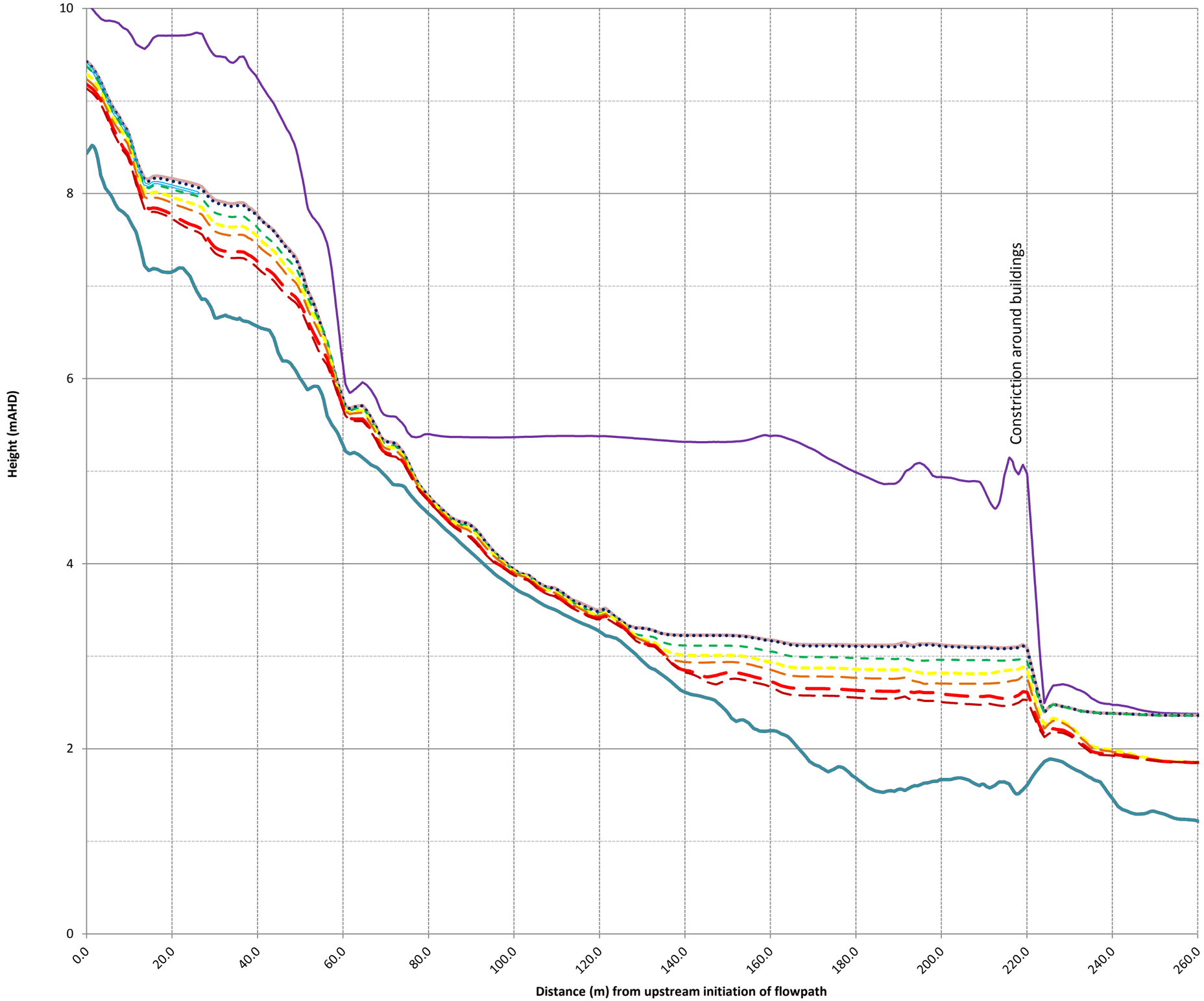
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.1
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 1

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

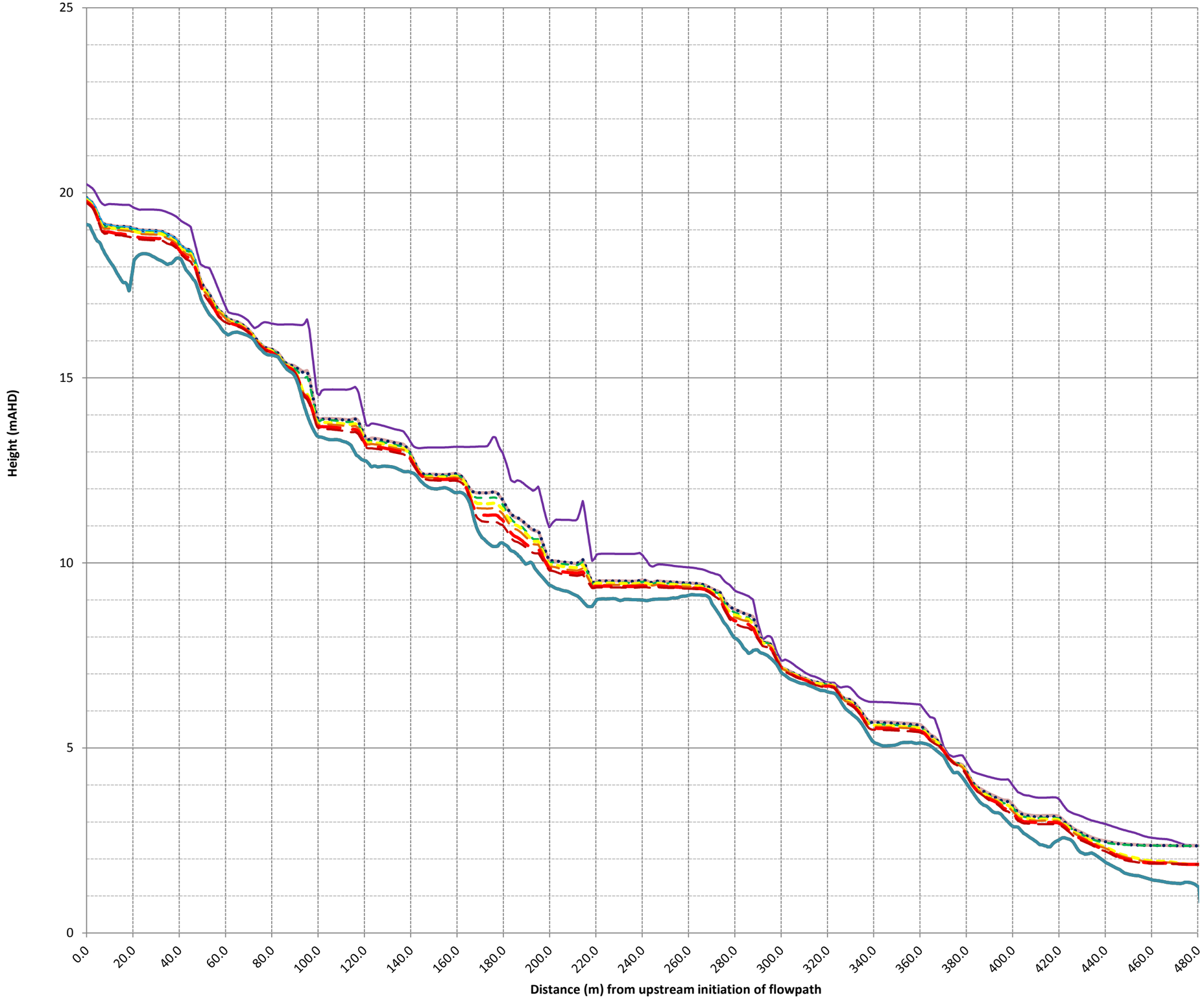
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.2
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 2

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

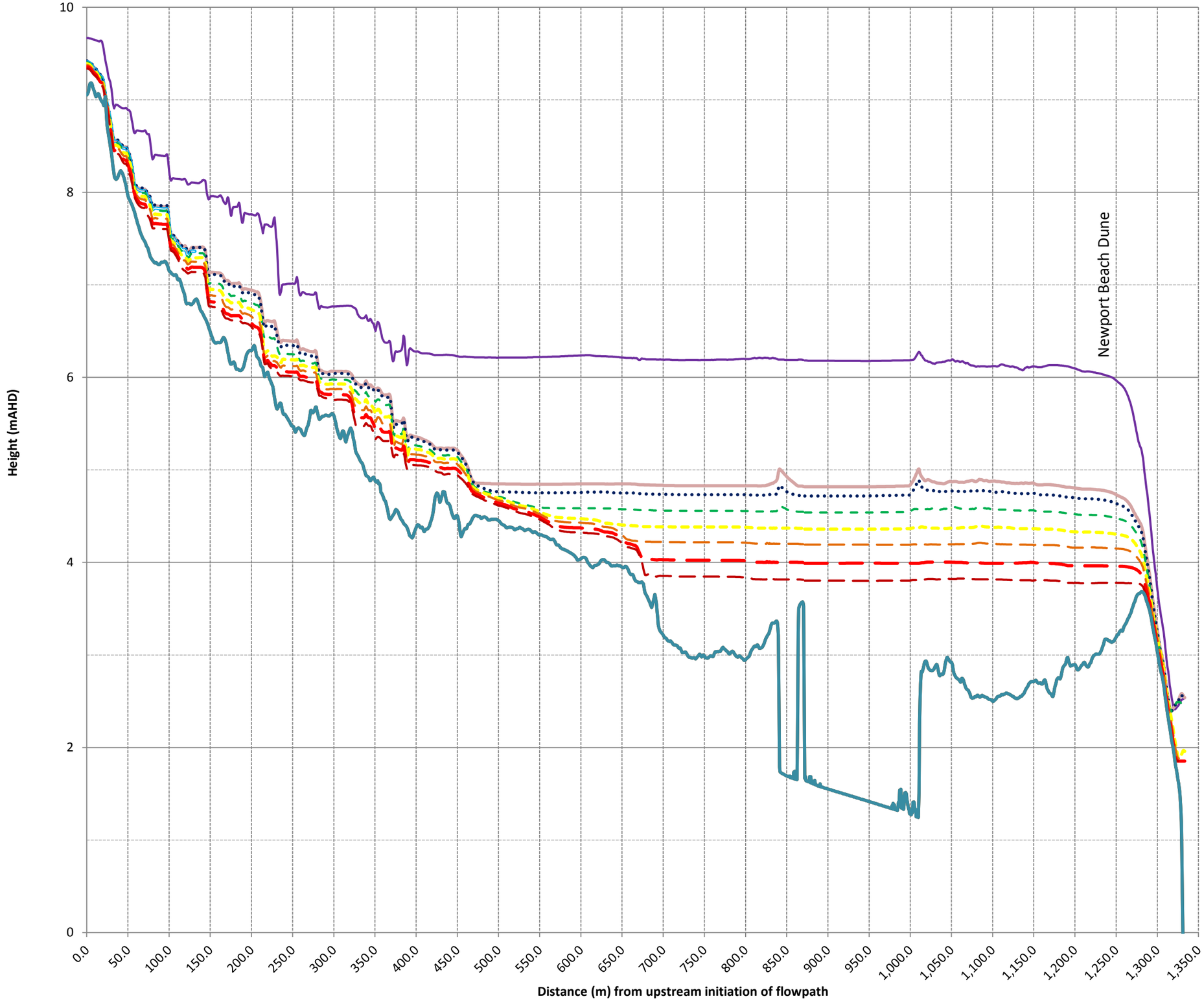
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.3
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 3

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

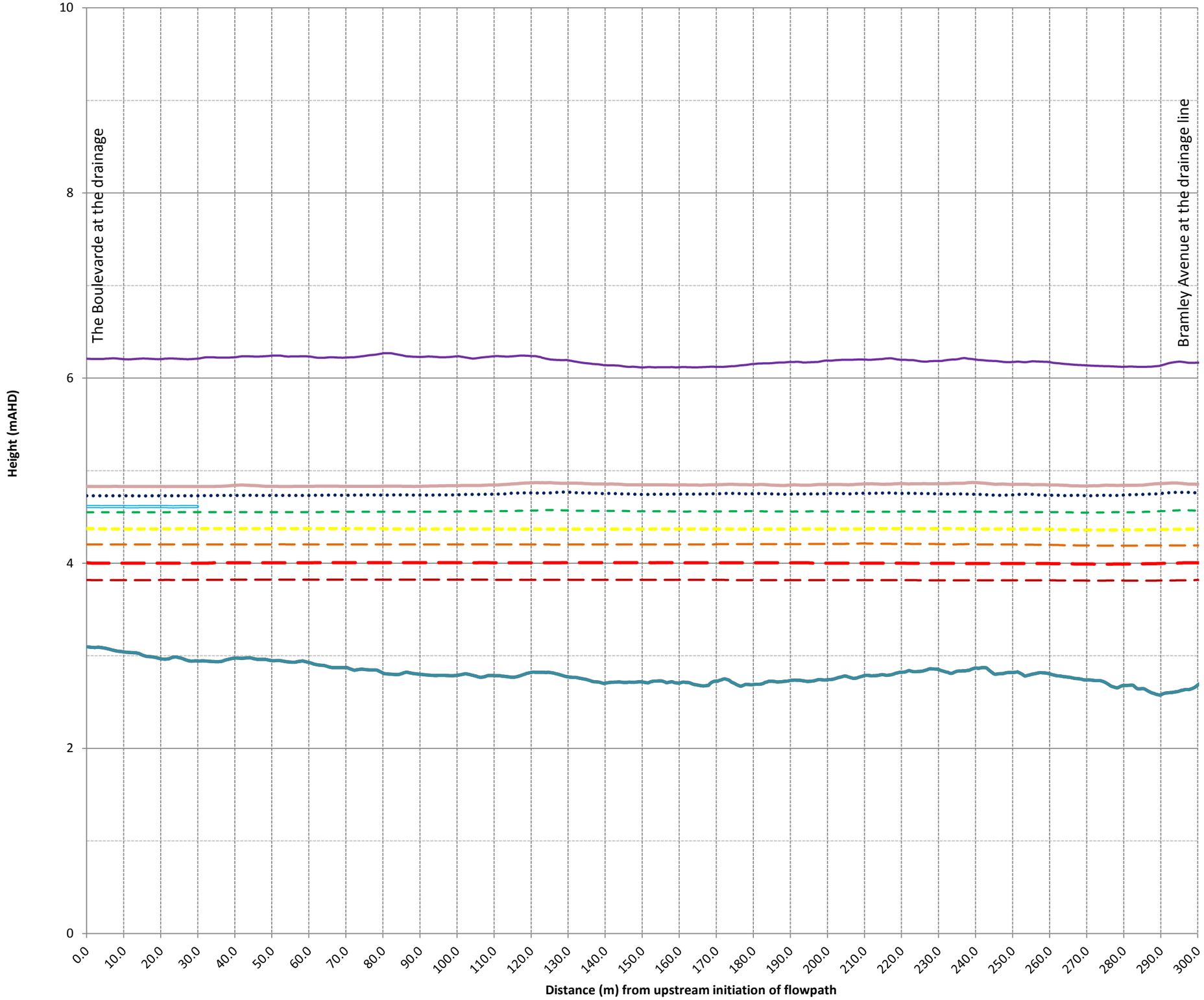
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.4
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 4

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

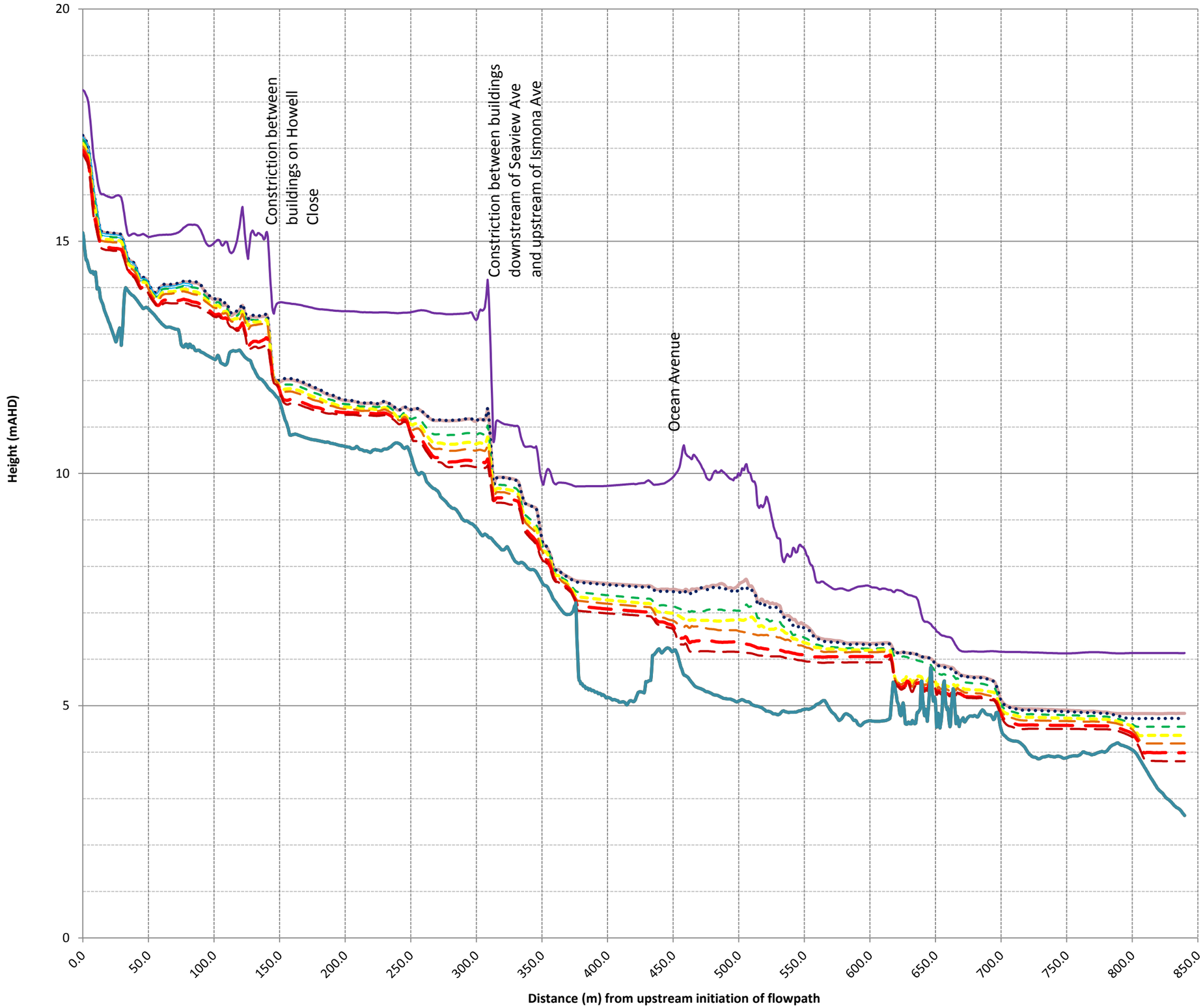
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.5
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 5

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

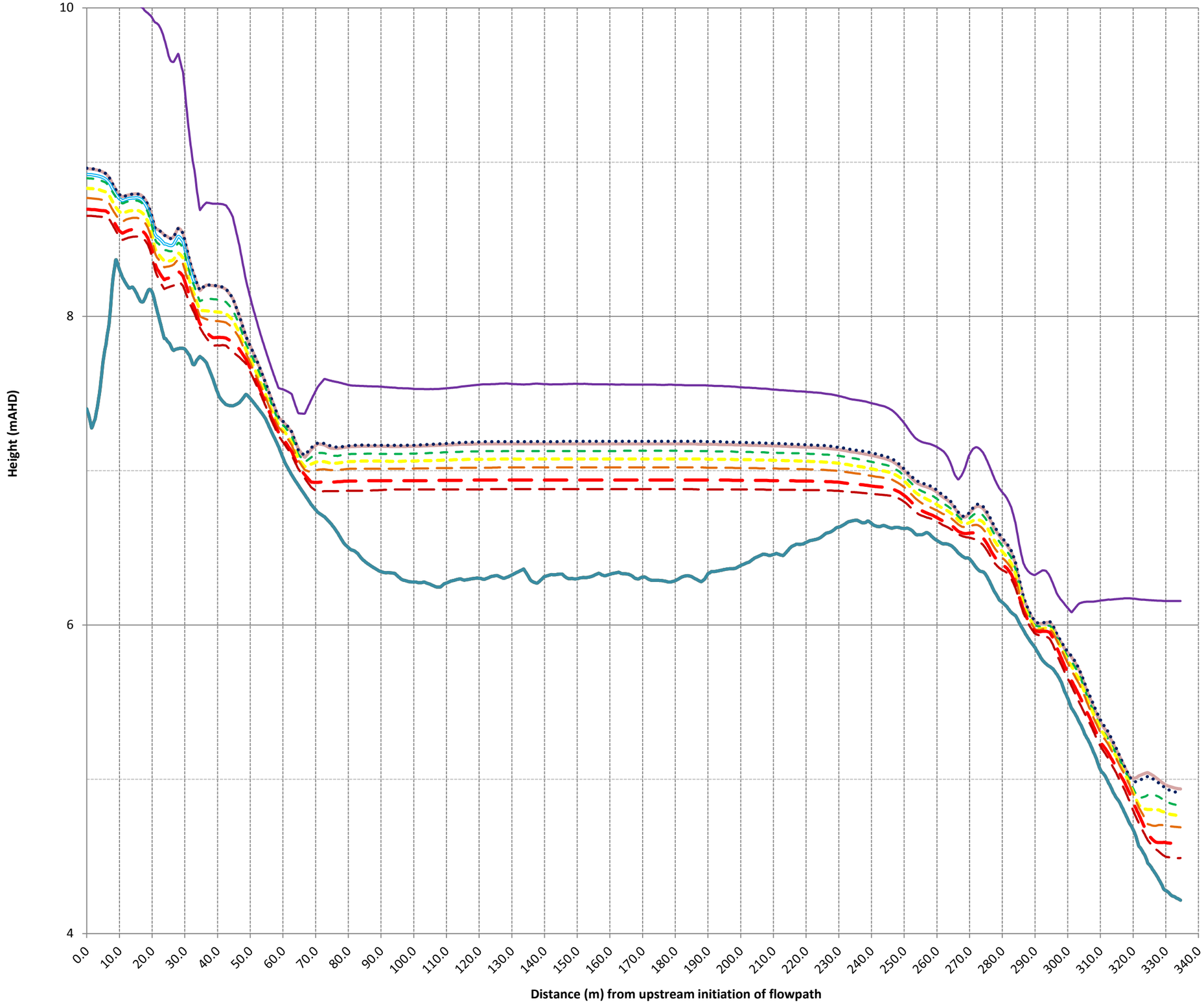
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.6
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 6

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

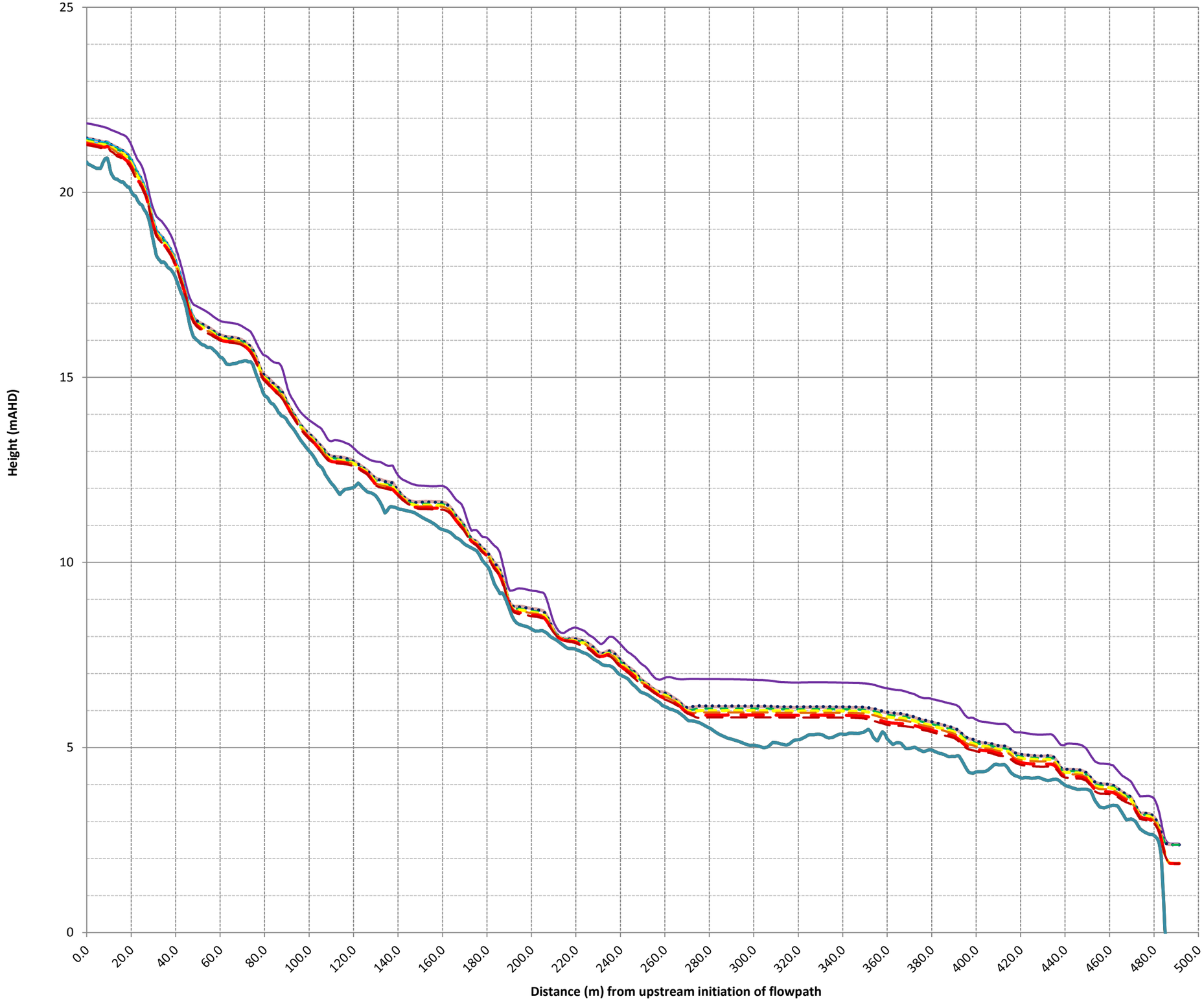
Notes:

A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.7
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 7

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx



NORTHERN BEACHES COUNCIL

LEGEND:

- PMF Flood Profile
- 0.1% AEP Flood Profile
- 0.2% AEP Flood Profile
- 0.5% AEP Flood Profile
- 1% AEP Flood Profile
- 2% AEP Flood Profile
- 5% AEP Flood Profile
- 10% AEP Flood Profile
- 20% AEP Flood Profile
- Ground Surface

Notes:

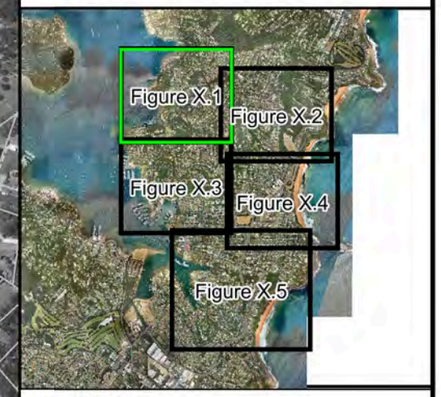
A number of different storm durations were simulated for each design flood. The peak levels presented in this figure represents the peak envelope flood level.

Figure 66.8
2100 Tailwater and 30% Increase in Rainfall Intensity Water Surface for Newport at Profile 8

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George Street
Sydney, NSW, 2000

File Name: Design Stage Hydrographs.xlsx

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

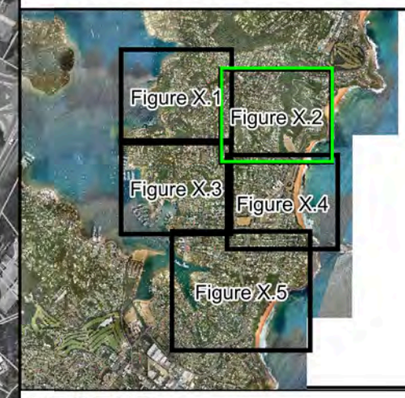
Figure 67.1: Flood Level Difference Mapping for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig67.1 - 20%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

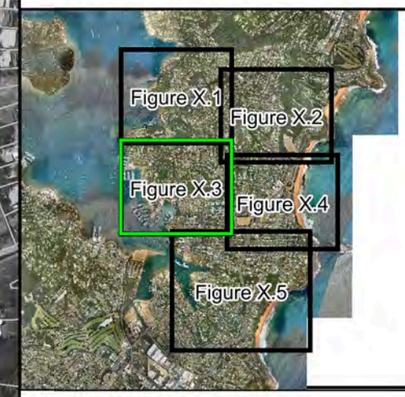
Figure 67.2: Flood Level Difference Mapping for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig67.2 - 20%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

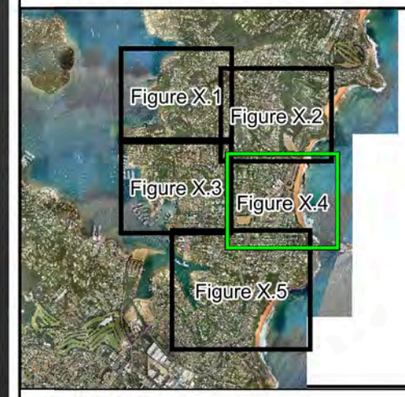
Figure 67.3: Flood Level Difference Mapping for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig67.3 - 20%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

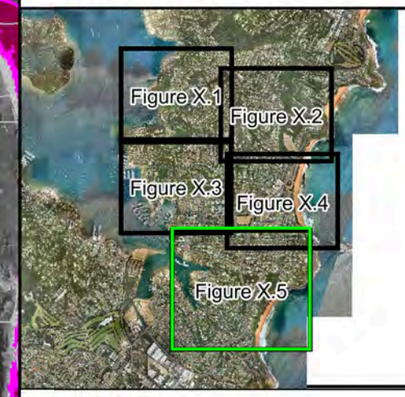
Figure 67.4: Flood Level Difference Mapping for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig67.4 - 20%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

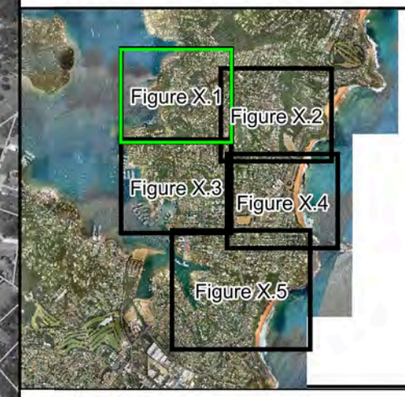
Figure 67.5: Flood Level Difference Mapping for the 20% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig67.5 - 20%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

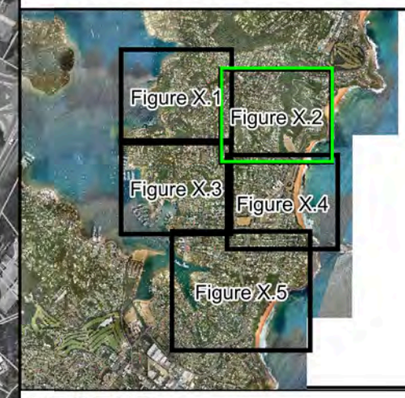
Figure 68.1: Flood Level Difference Mapping for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig68.1 - 10%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

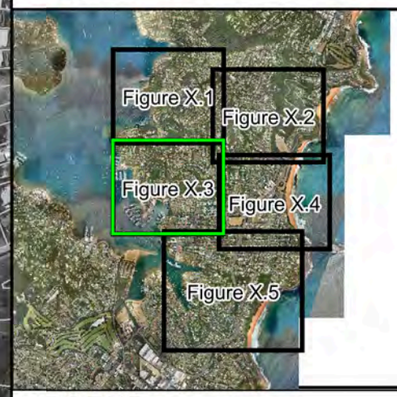
Figure 68.2: Flood Level Difference Mapping for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig68.2 - 10%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

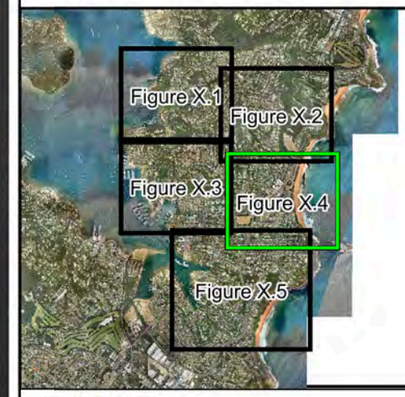
Figure 68.3: Flood Level Difference Mapping for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig68.3 - 10%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoral Avenue
Coless Parade
Ocean Avenue
Cookmi Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

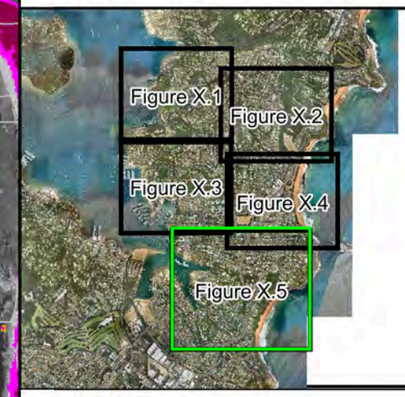
Figure 68.4: Flood Level Difference Mapping for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig68.4 - 10%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

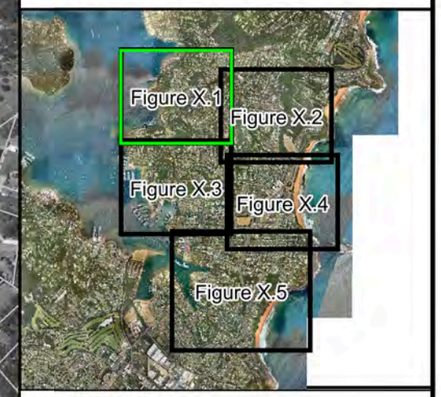
Figure 68.5:
Flood Level Difference Mapping for the 10% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig68.5 - 10%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

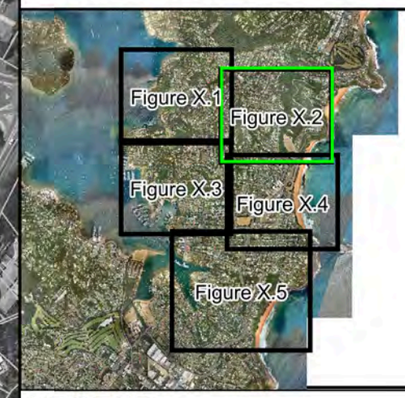
Figure 69.1: Flood Level Difference Mapping for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig69.1 - 5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

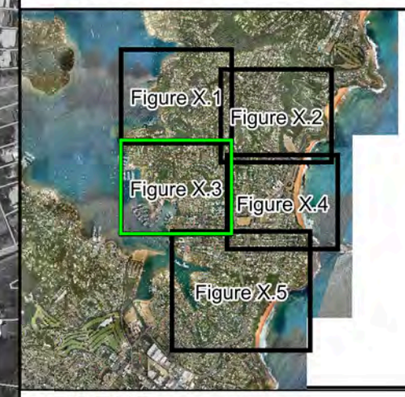
Figure 69.2: Flood Level Difference Mapping for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig69.2 - 5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

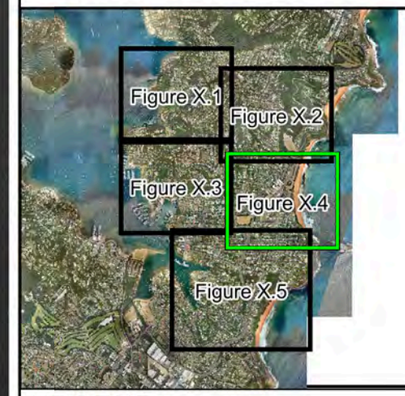
0 0.1 0.2 Km

Figure 69.3: Flood Level Difference Mapping for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig69.3 - 5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoret Avenue
Coleys Parade
Ocean Avenue
Cookmin Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

	0.50
	0.20
	0.10
	0.02
	No Change
	-0.02
	-0.10
	-0.20
	-0.50
	Previously wet now dry
	Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

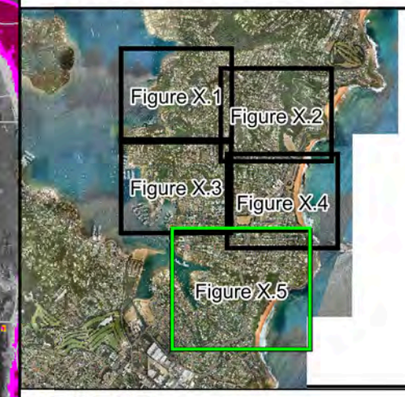
Figure 69.4: Flood Level Difference Mapping for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig69.4 - 5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

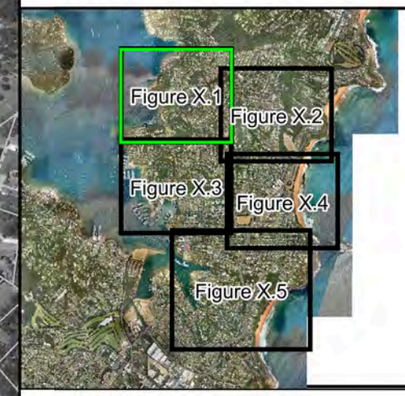
Figure 69.5: Flood Level Difference Mapping for the 5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig69.5 - 5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

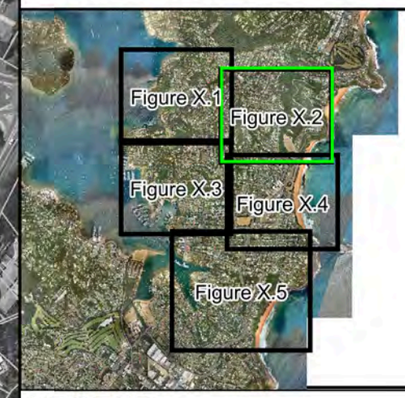
Figure 70.1: Flood Level Difference Mapping for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig70.1 - 2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

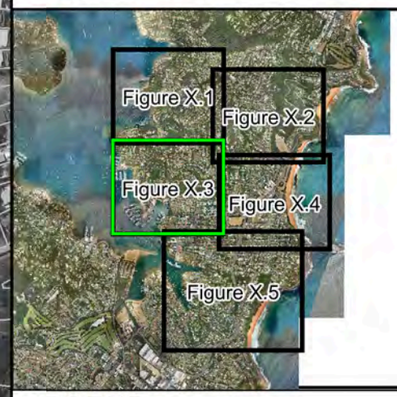
Figure 70.2: Flood Level Difference Mapping for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig70.2 - 2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

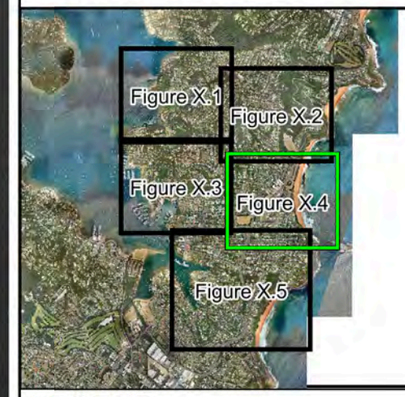
Figure 70.3: Flood Level Difference Mapping for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig70.3 - 2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

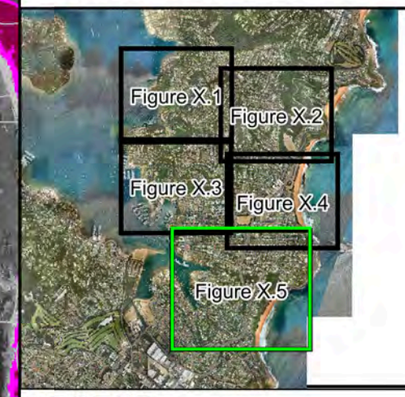
Figure 70.4: Flood Level Difference Mapping for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig70.4 - 2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

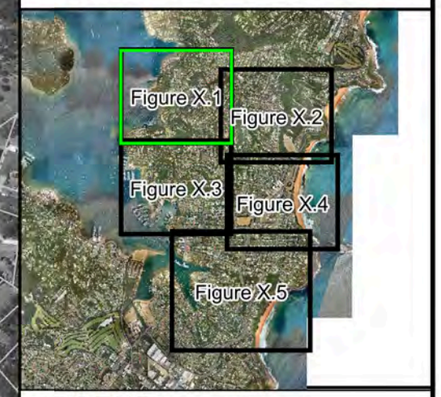
Figure 70.5: Flood Level Difference Mapping for the 2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig70.5 - 2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

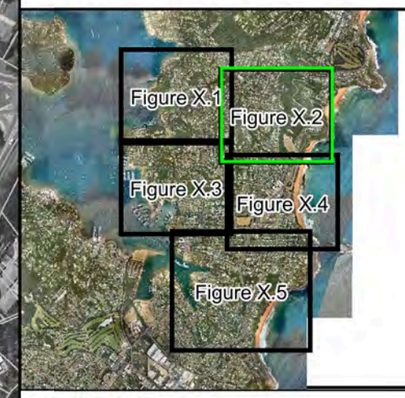
Figure 71.1: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig71.1 - 1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 71.2: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig71.2 - 1%AEP 2100 TW CC30 diff Flood.wor

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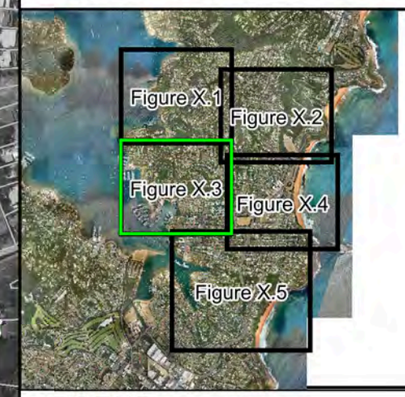

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 71.3: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig71.3 - 1%AEP 2100 TW CC30 diff Flood.wor

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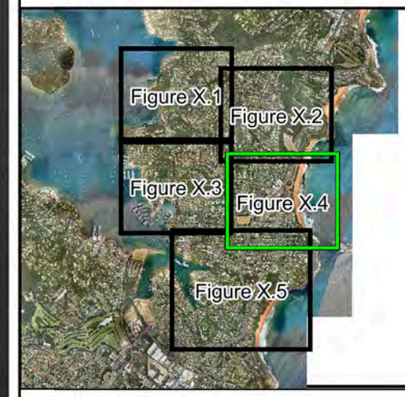


Pacific Ocean

Neptune Road
Ismona Avenue
Foamcrest Avenue
Ocean Avenue
Coles Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Coolum Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

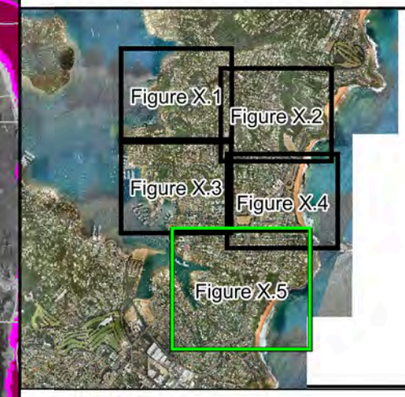
Figure 71.4: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig71.4 - 1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N

W E

S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

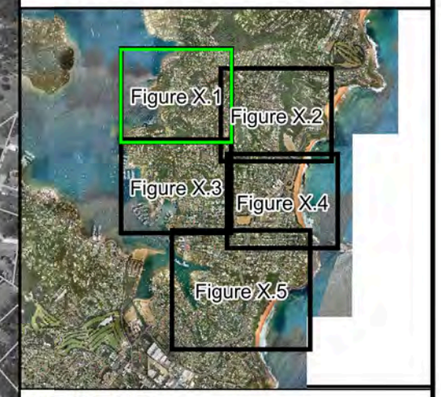
Figure 71.5: Flood Level Difference Mapping for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig71.5 - 1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

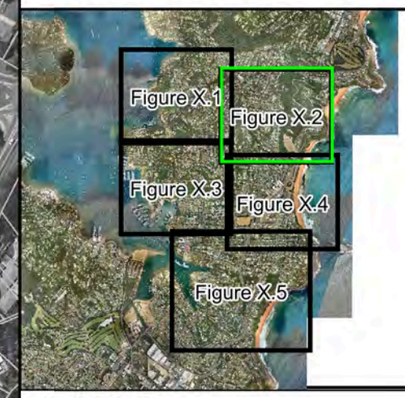
Figure 72.1: Flood Level Difference Mapping for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig72.1 - 0.5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

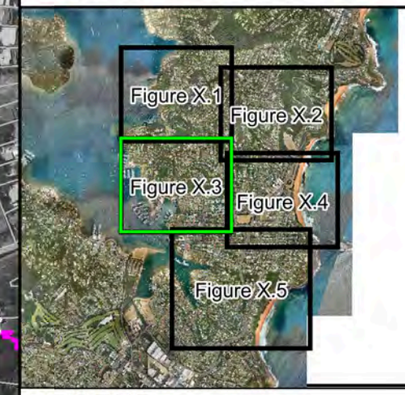
Figure 72.2: Flood Level Difference Mapping for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig72.2 - 0.5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

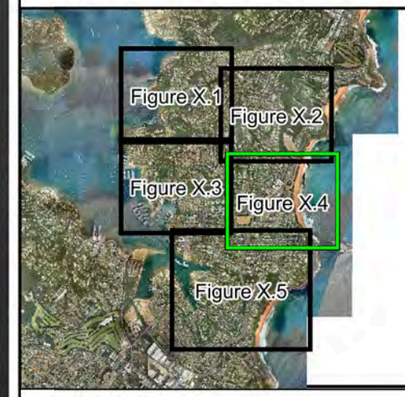
Figure 72.3: Flood Level Difference Mapping for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig72.3 - 0.5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoreel Avenue
Ocean Avenue
Coles Parade
Cooyinn Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

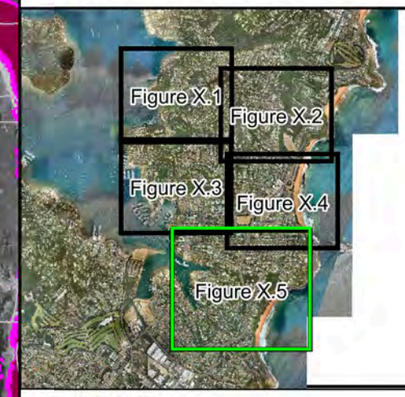
Figure 72.4: Flood Level Difference Mapping for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig72.4 - 0.5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

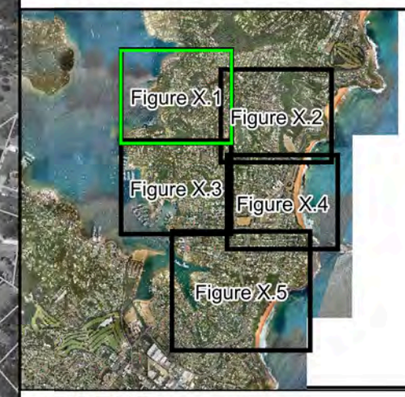
Figure 72.5: Flood Level Difference Mapping for the 0.5% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig72.5 - 0.5%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

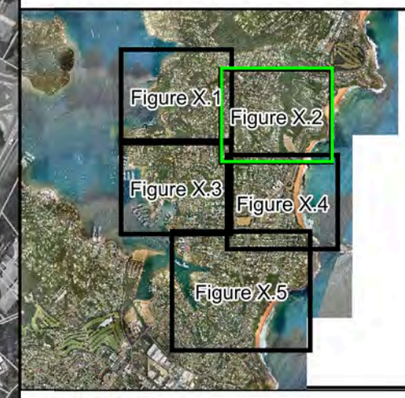
Figure 73.1: Flood Level Difference Mapping for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig73.1 - 0.2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

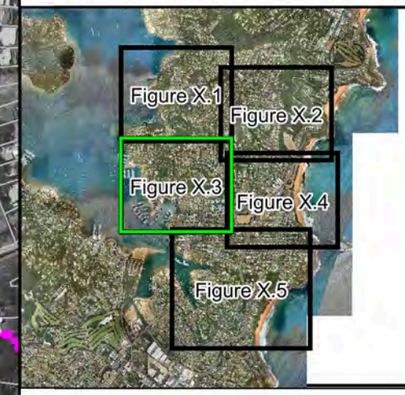
Figure 73.2: Flood Level Difference Mapping for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig73.2 - 0.2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

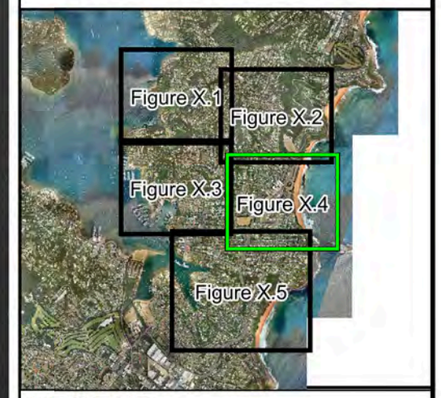
Figure 73.3: Flood Level Difference Mapping for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig73.3 - 0.2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoreel Avenue
Coolum Road
Ocean Avenue
Coles Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

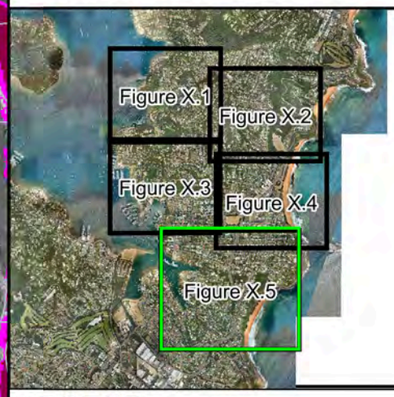
Figure 73.4: Flood Level Difference Mapping for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig73.4 - 0.2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

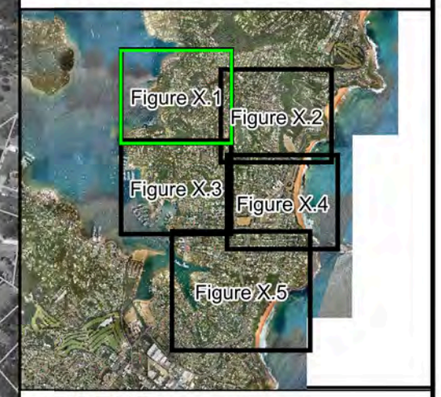
Figure 73.5: Flood Level Difference Mapping for the 0.2% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig73.5 - 0.2%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 74.1: Flood Level Difference Mapping for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

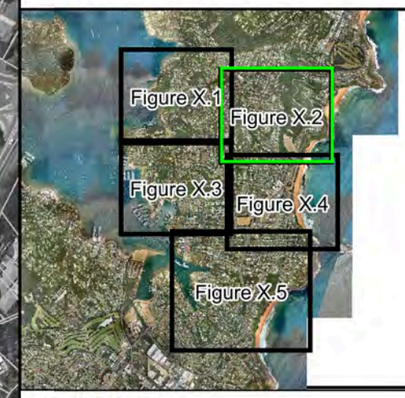
Catchment Simulation Solutions

Suite 2.01, 210 George St

Sydney, NSW 2000

File Name: Fig74.1 - 0.1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

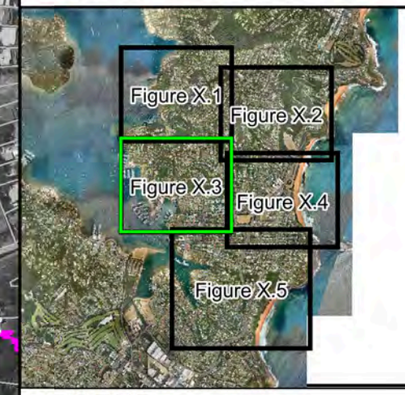
Figure 74.2: Flood Level Difference Mapping for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig74.2 - 0.1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

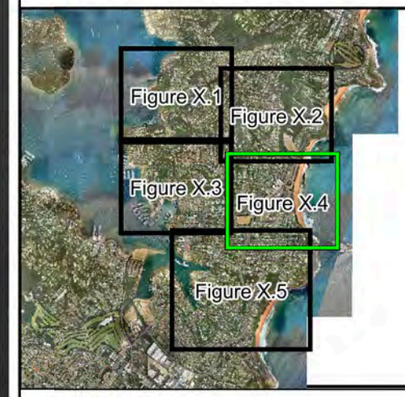
Figure 74.3: Flood Level Difference Mapping for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig74.3 - 0.1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoreed Avenue
Ocean Avenue
Coles Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Irrubel Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

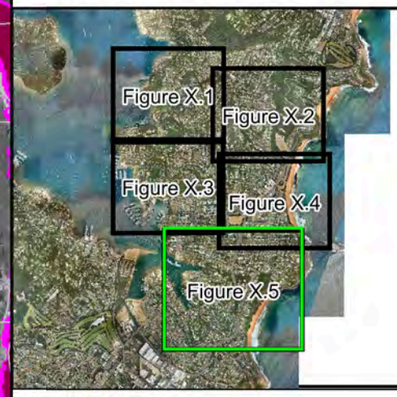
Figure 74.4: Flood Level Difference Mapping for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig74.4 - 0.1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

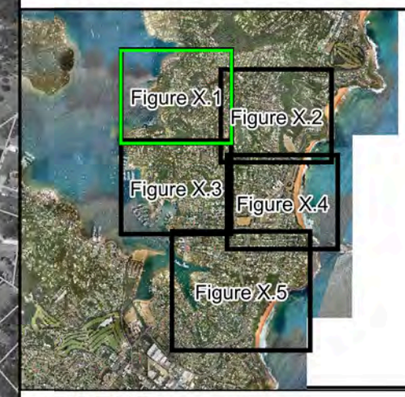
Figure 74.5: Flood Level Difference Mapping for the 0.1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig74.5 - 0.1%AEP 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

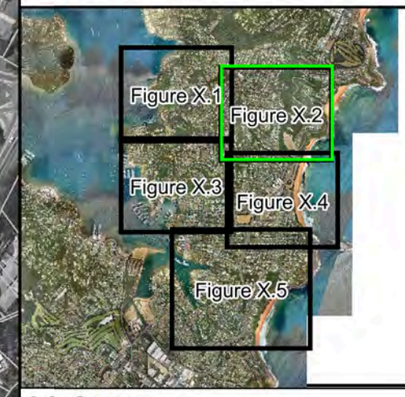
Figure 75.1: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig75.1 - PMF 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

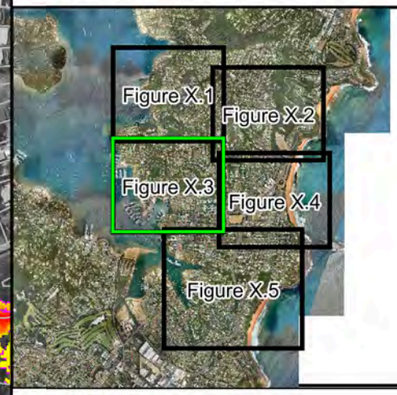
Figure 75.2: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig75.2 - PMF 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

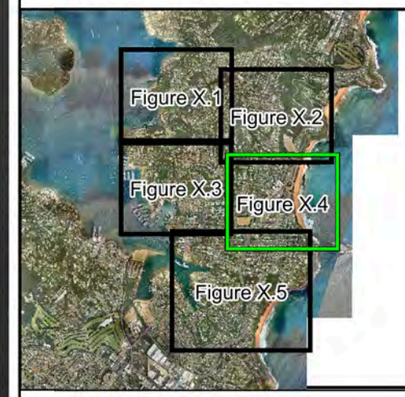
Figure 75.3: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig75.3 - PMF 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Fosmoreed Avenue
Ocean Avenue
Coles Parade
Cookman Road
Robertson Road
Bramley Avenue
Ross Street
Nyola Road
Irrubel Road
Nullabural Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Bishop Street
Hollywood Road
Stanley Street
Calvert Parade
Queens Parade
Queens Parade East
Melaleuca Street

LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

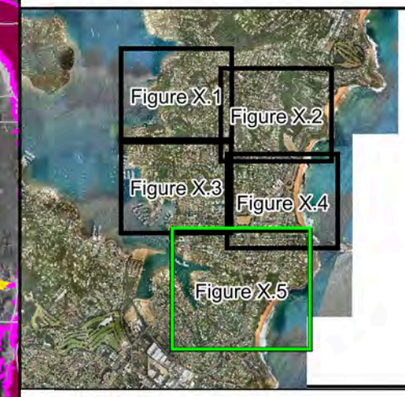
Figure 75.4: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig75.4 - PMF 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Water Level Difference (m)

- 0.50
- 0.20
- 0.10
- 0.02
- No Change
- -0.02
- -0.10
- -0.20
- -0.50
- Previously wet now dry
- Previously dry now wet

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

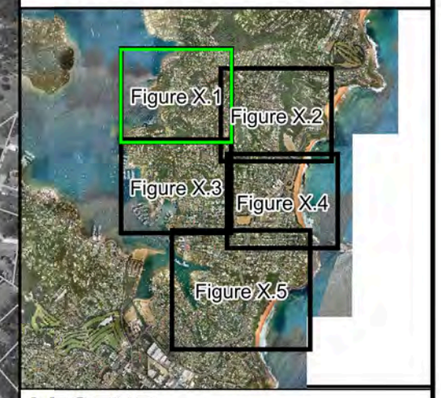
Figure 75.5: Flood Level Difference Mapping for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig75.5 - PMF 2100 TW CC30 diff Flood.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

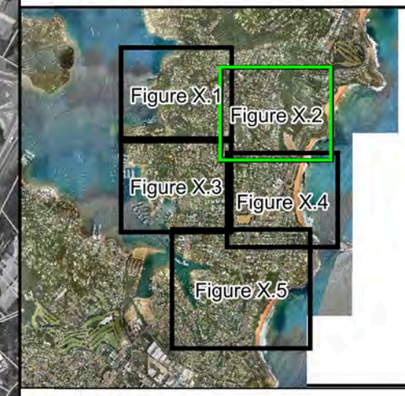
Figure 76.1: Provisional Hazard for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig76.1 - Haz for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

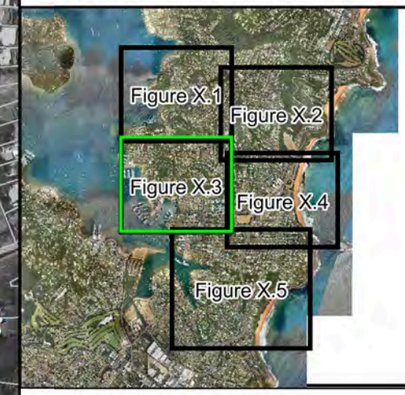
0 0.1 0.2
Km

Figure 76.2: Provisional Hazard for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig76.2 - Haz for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

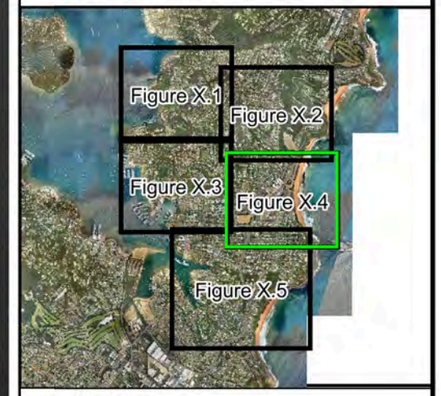
Figure 76.3: Provisional Hazard for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig76.3 - Haz for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



Pacific Ocean

Neptune Road
Ismona Avenue
Rosmead Avenue
Ocean Avenue
Coles Parade
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Goodwin Road
Irrubel Road
Nullabural Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

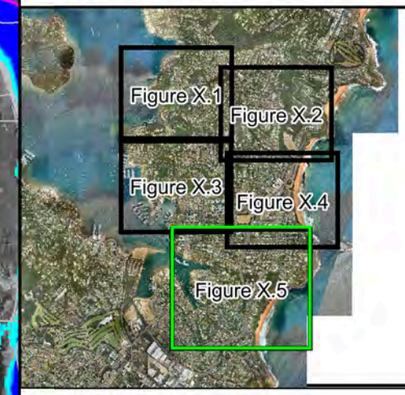
0 0.1 0.2 Km

Figure 76.4: Provisional Hazard for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig76.4 - Haz for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

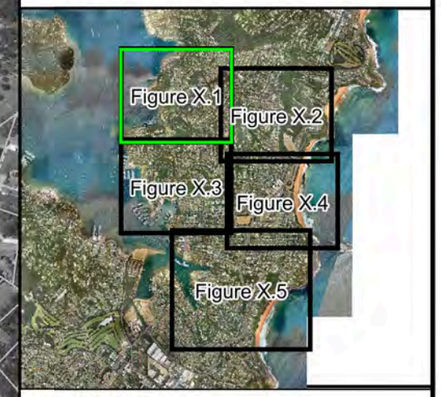
Km

Figure 76.5: Provisional Hazard for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig76.5 - Haz for 1%AEP TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

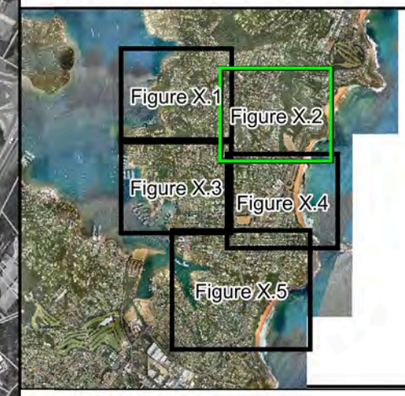
0 0.1 0.2 Km

Figure 77.1: Provisional Hazard for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig77.1 - Haz for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:

Aerial photograph date: 2014

N

W E

S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

Figure 77.2: Provisional Hazard for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions

Suite 2.01, 210 George St

Sydney, NSW 2000

File Name: Fig77.2 - Haz for PMF TW2100 CC30.wor

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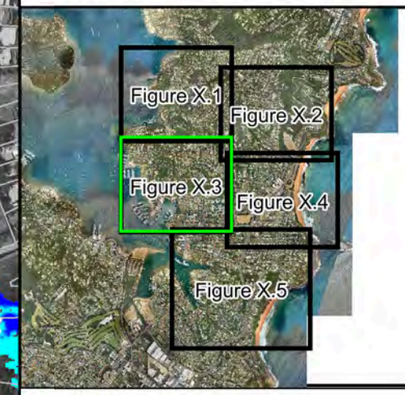


LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

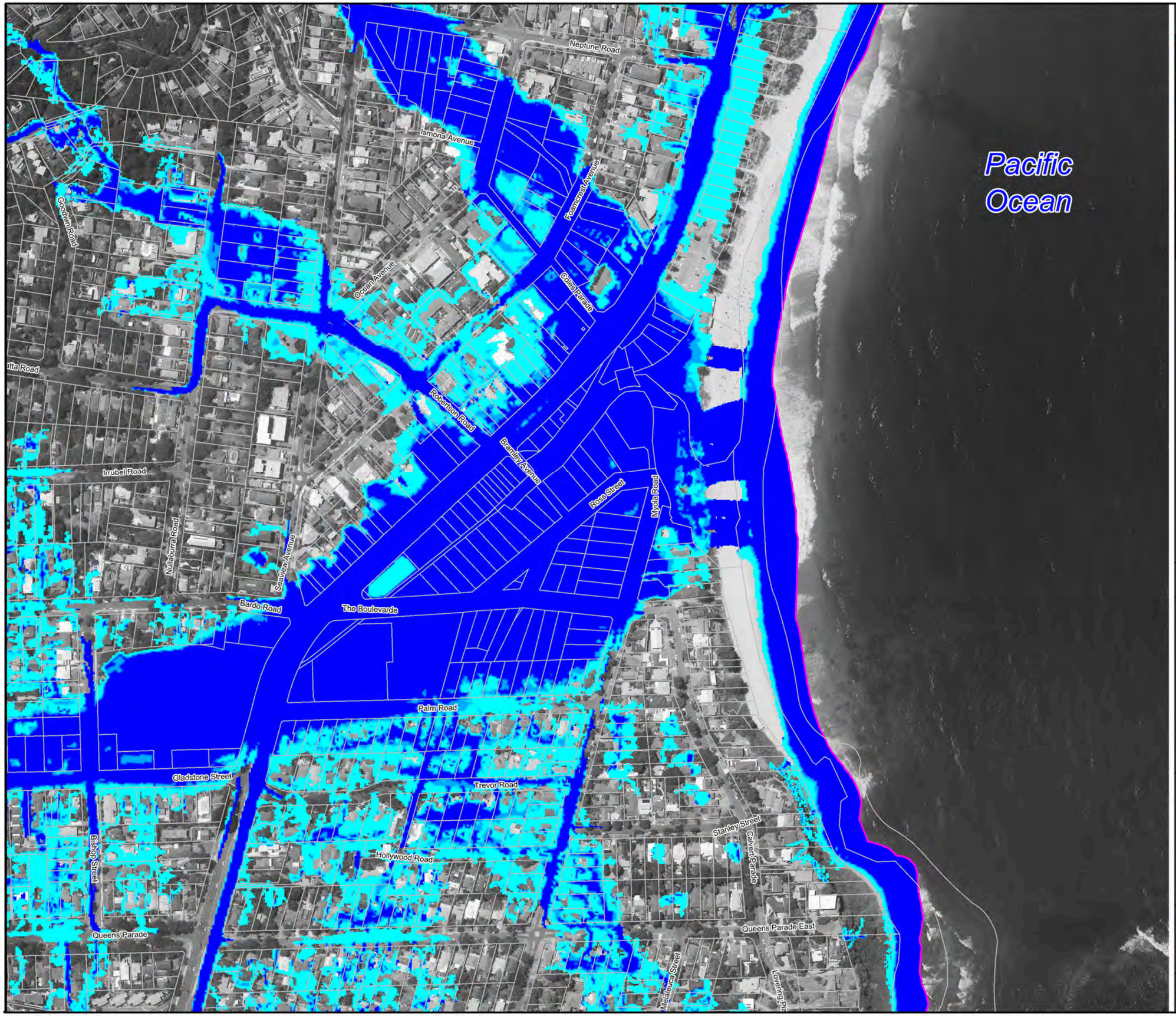
0 0.1 0.2 Km

Figure 77.3: Provisional Hazard for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig77.3 - Haz for PMF TW2100 CC30.wor



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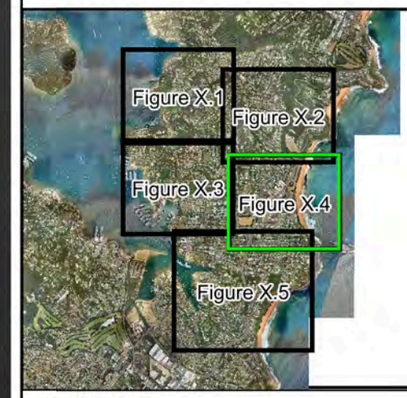


LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:
Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

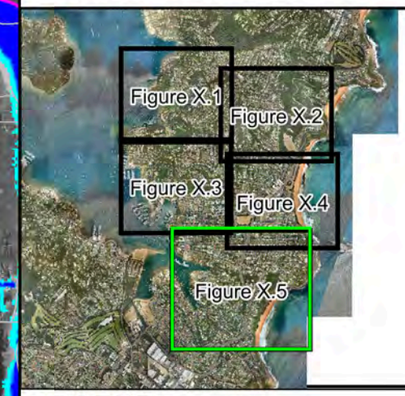
0 0.1 0.2 Km

Figure 77.4: Provisional Hazard for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig77.4 - Haz for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hazard Categories

- Low
- Transition
- High

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

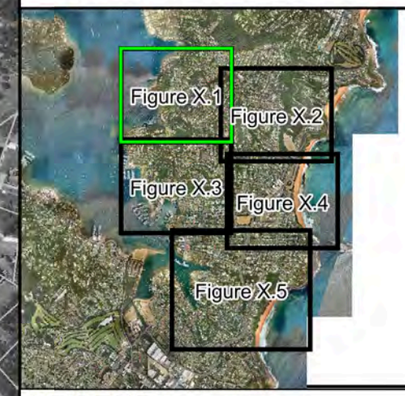
Figure 77.5: Provisional Hazard for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig77.5 - Haz for PMF TW2100 CC30.wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

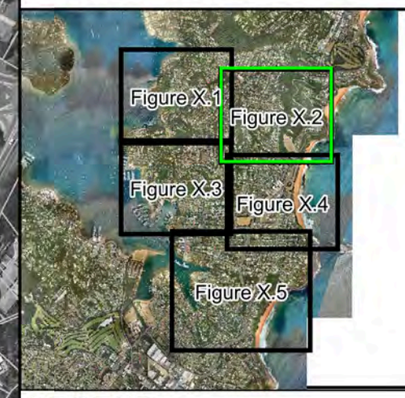
Figure 78.1:
Hydraulic Categories for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig78.1 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

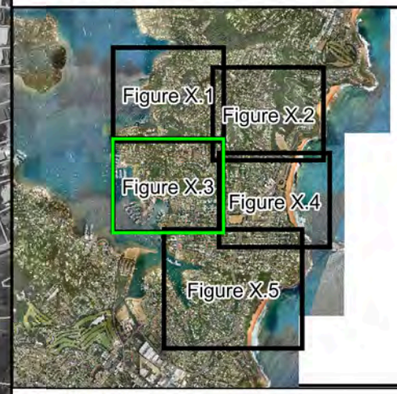
Figure 78.2: Hydraulic Categories for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig78.2 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

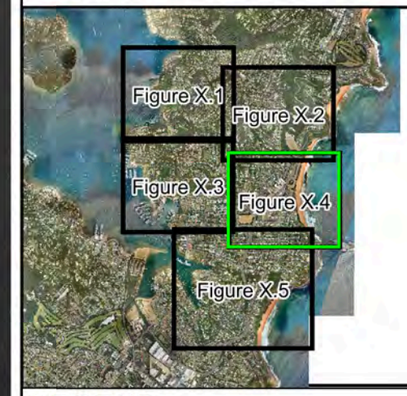
Figure 78.3: Hydraulic Categories for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig78.3 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL

Pacific Ocean



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

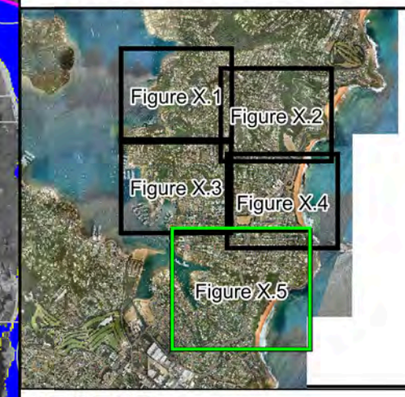
Km

Figure 78.4:
Hydraulic Categories for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig78.4 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

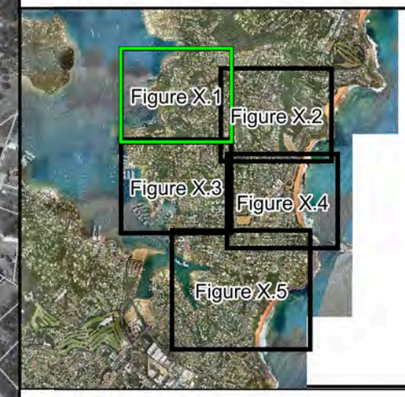
Km

Figure 78.5:
Hydraulic Categories for the 1% AEP Flood with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig78.5 - 1% AEP Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

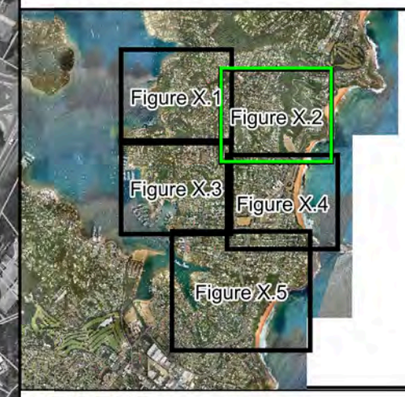
Figure 79.1: Hydraulic Categories for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig79.1 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

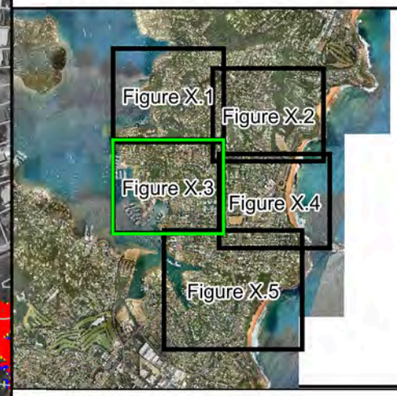
Figure 79.2:
Hydraulic Categories for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig79.2 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

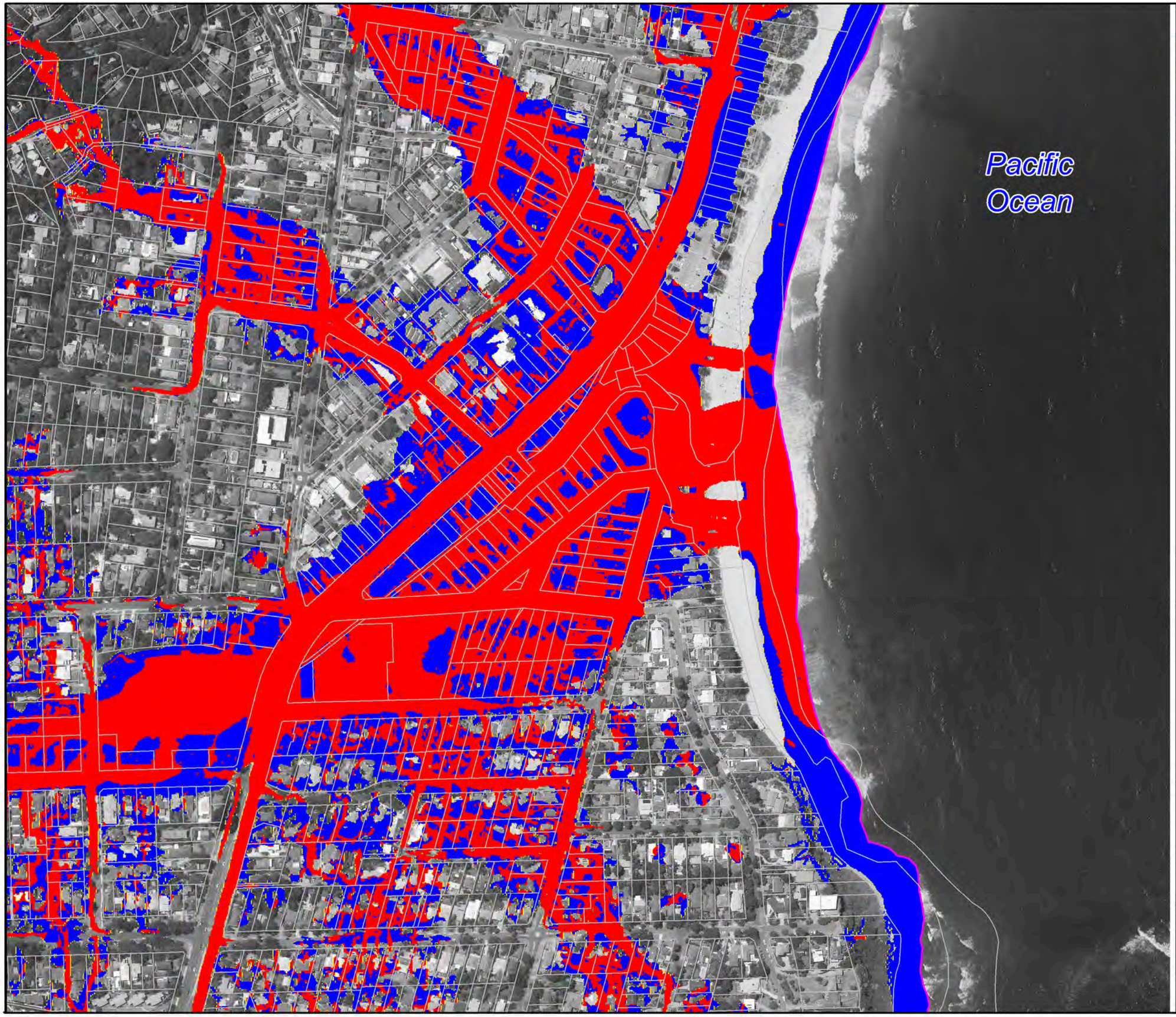
0 0.1 0.2

Km

Figure 79.3:
Hydraulic Categories for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig79.3 - PMF Hydraulic Cat .wor



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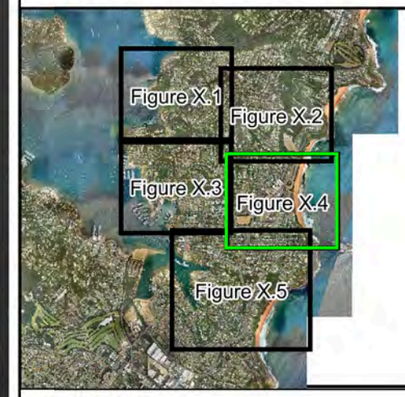


LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2

Km

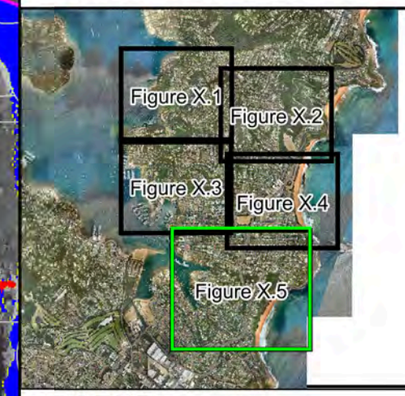
Figure 79.4:
Hydraulic Categories for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig79.4 - PMF Hydraulic Cat .wor

NORTHERN BEACHES COUNCIL



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:5,000 (at A3)

0 0.15 0.3

Km

Figure 79.5:
Hydraulic Categories for the PMF with 0.9m Increase in Ocean Level and 30% Increase in Rainfall Intensity

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig79.5 - PMF Hydraulic Cat .wor

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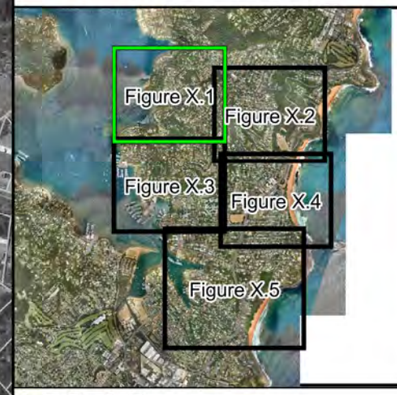

LEGEND

- Flood Planning Area
- PMF Extent
- 1%AEP Local Stormwater

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 80.1: Flood Planning Area

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Catchment Simulation Solutions
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File Name: Fig80.1 - FPA 1AEP Flood.wor

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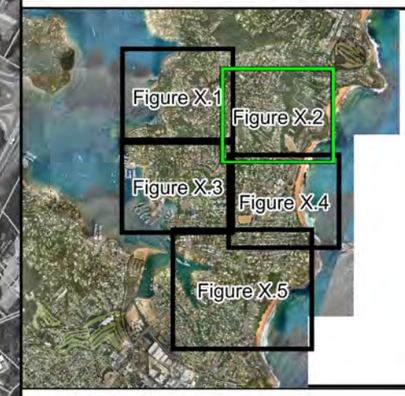

LEGEND

- Flood Planning Area
- PMF Extent
- 1%AEP Local Stormwater

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 80.2: Flood Planning Area

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig80.2 - FPA 1AEP Flood.wor

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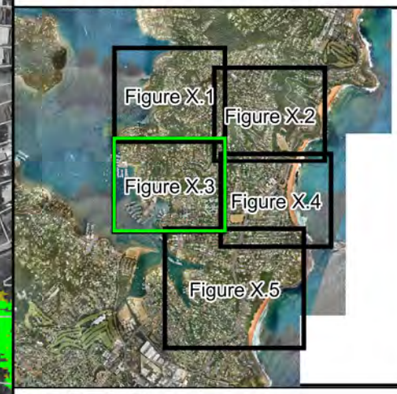

LEGEND

- Flood Planning Area
- PMF Extent
- 1%AEP Local Stormwater

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 80.3: Flood Planning Area

Prepared By:

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Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig80.3 - FPA 1AEP Flood.wor

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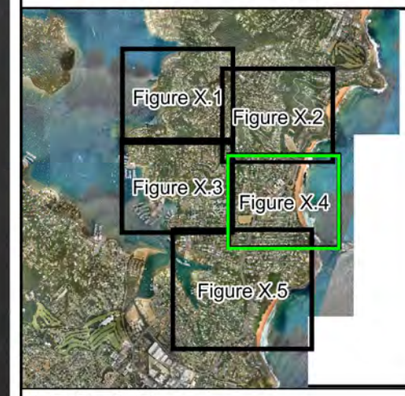

Pacific Ocean

Neptune Road
Ismona Avenue
Fosmored Avenue
Oates Parade
Ocean Avenue
Goodwin Road
Irrubel Road
Robertson Road
Bramley Avenue
Ross Street
Myola Road
Nullaburra Road
Seaview Avenue
Bardo Road
The Boulevarde
Palm Road
Gladstone Street
Trevor Road
Hollywood Road
Bishop Street
Queens Parade
Stanley Street
Calvert Parade
Queens Parade East
Melaleuca Street

LEGEND

- Flood Planning Area
- PMF Extent
- 1%AEP Local Stormwater

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 80.4: Flood Planning Area

Prepared By:

Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig80.4 - FPA 1AEP Flood.wor

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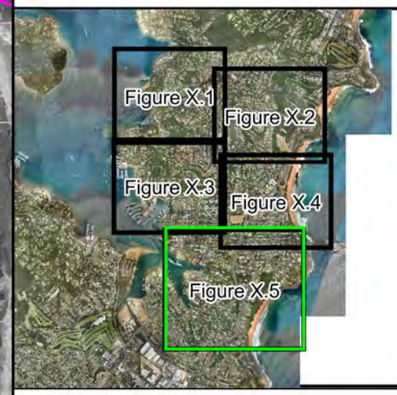

LEGEND

- Flood Planning Area
- PMF Extent
- 1%AEP Local Stormwater

Notes:

Aerial photograph date: 2014

N
W E
S

Scale 1:4,000 (at A3)

0 0.1 0.2 Km

Figure 80.5:
Flood Planning Area

Prepared By:

Catchment Simulation Solutions
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Sydney, NSW 2000

File Name: Fig80.5 - FPA 1AEP Flood.wor