



Killarney Vale / Long Jetty Catchments

Floodplain Risk Management Study & Draft Plan

Final Report

Volume 2 of 2: Figures



►► **Revision 5**
March 2021

Catchment Simulation Solutions

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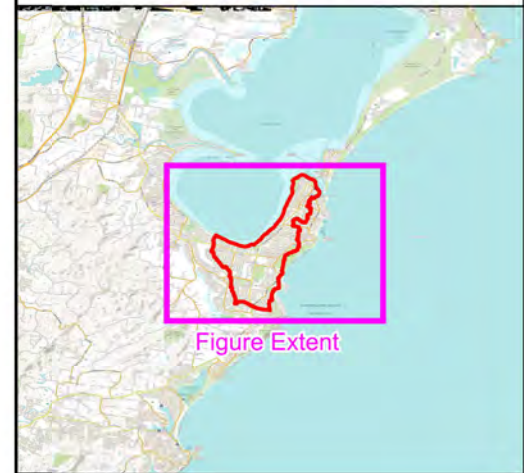
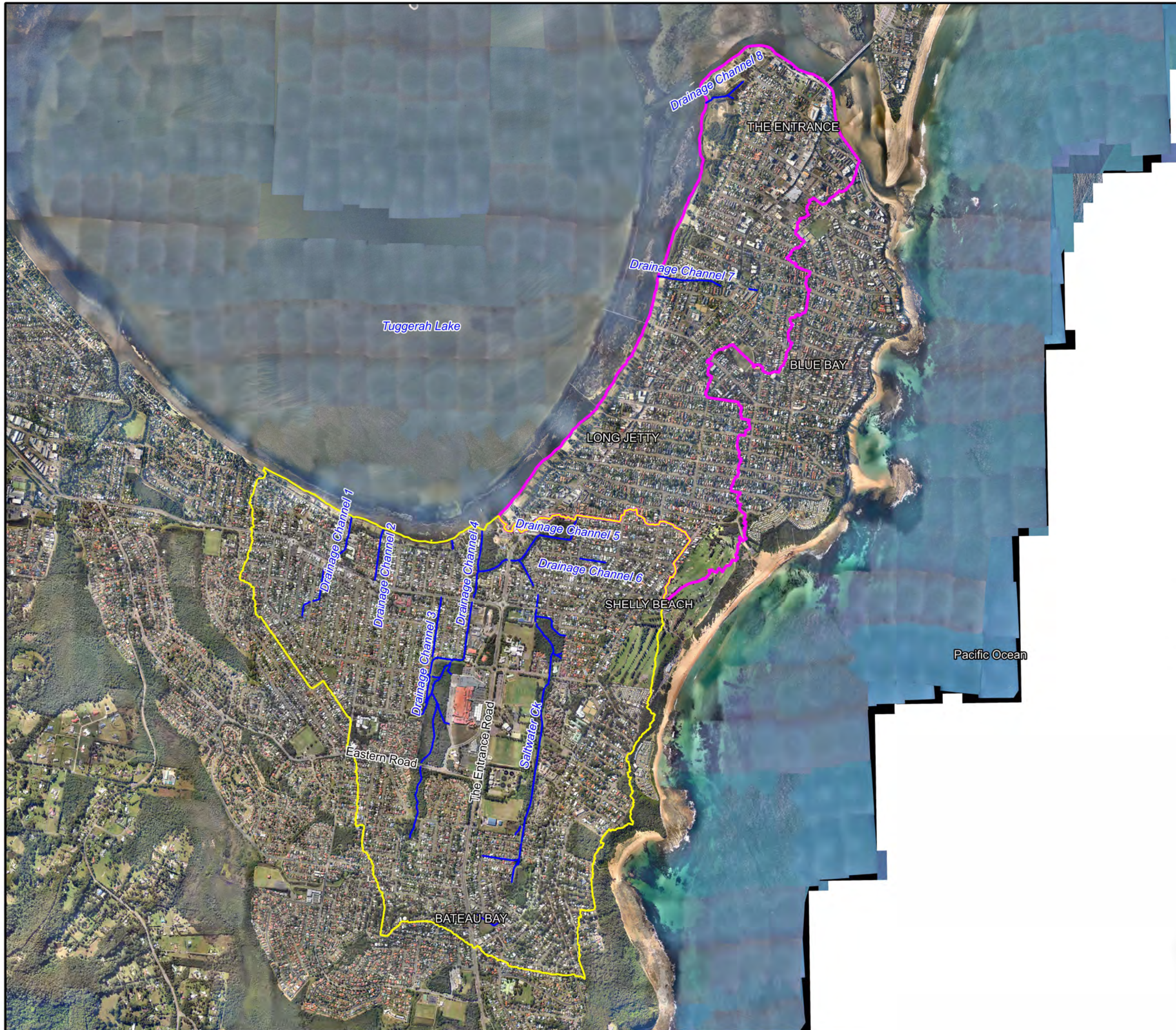
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LEGEND

- Killarney Vale Catchment
- Long Jetty Catchment
- Watercourses

Notes:
Aerial photograph date: 2013

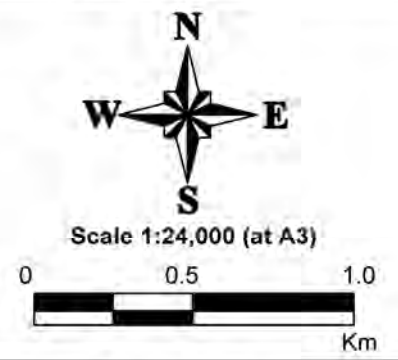

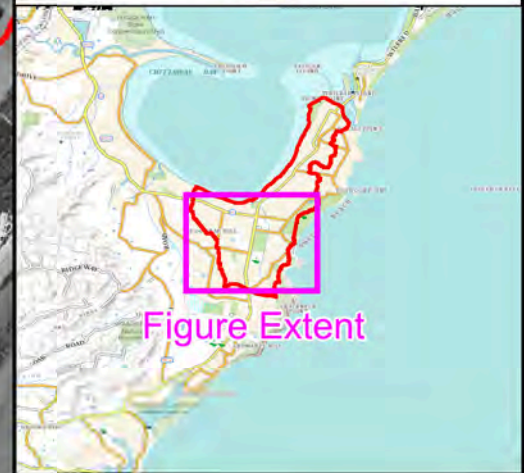
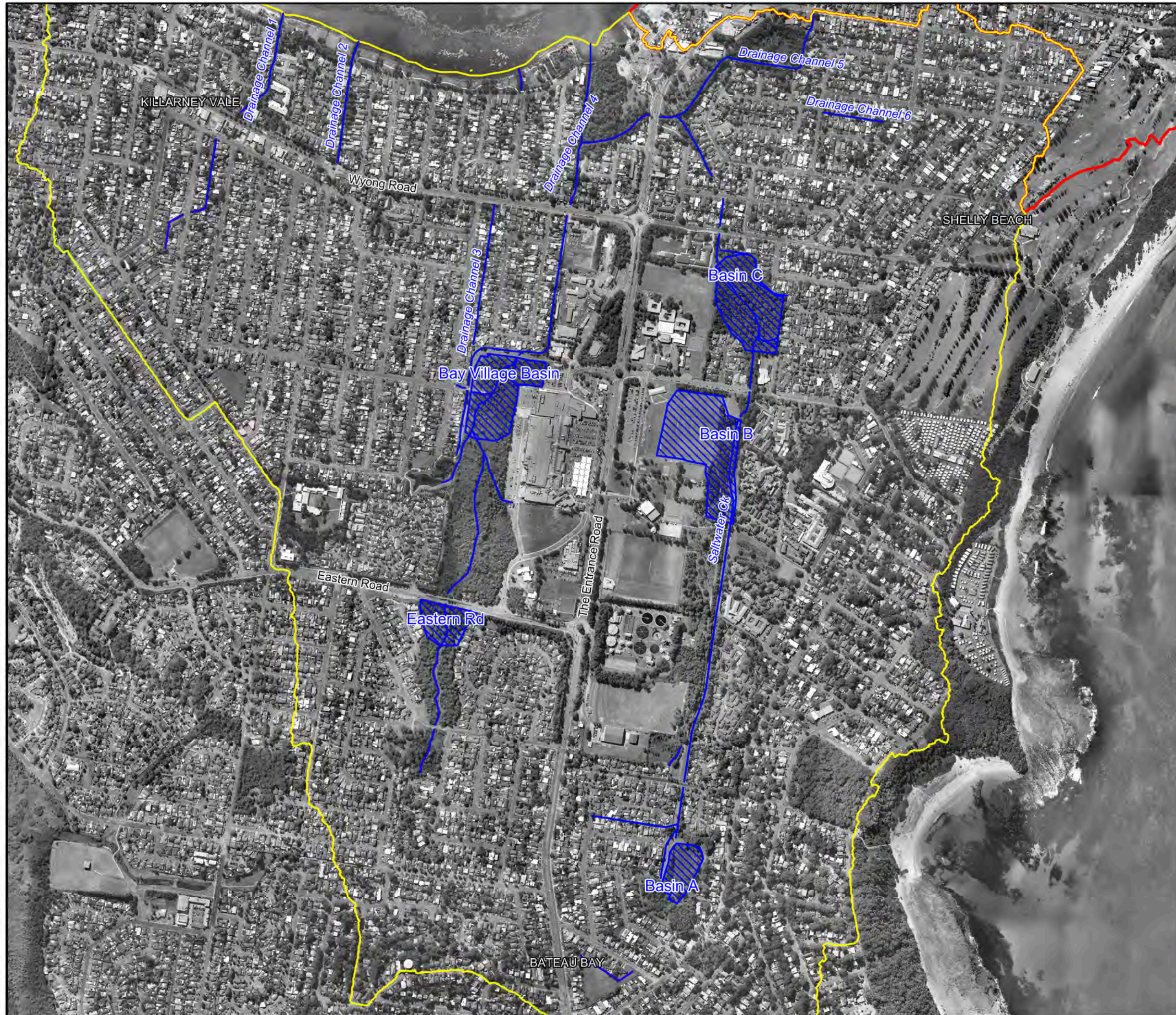


Figure 1:
Killarney Vale and
Long Jetty Catchments

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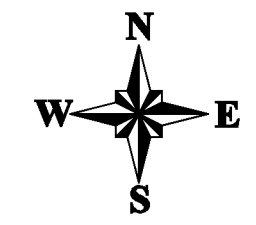
File Name: Fig1 Catchments.wor



LEGEND

- Killarney Vale Catchment
- Long Jetty Catchment
- Detention Basin
- Watercourses

Notes:
Aerial photograph date: 2013



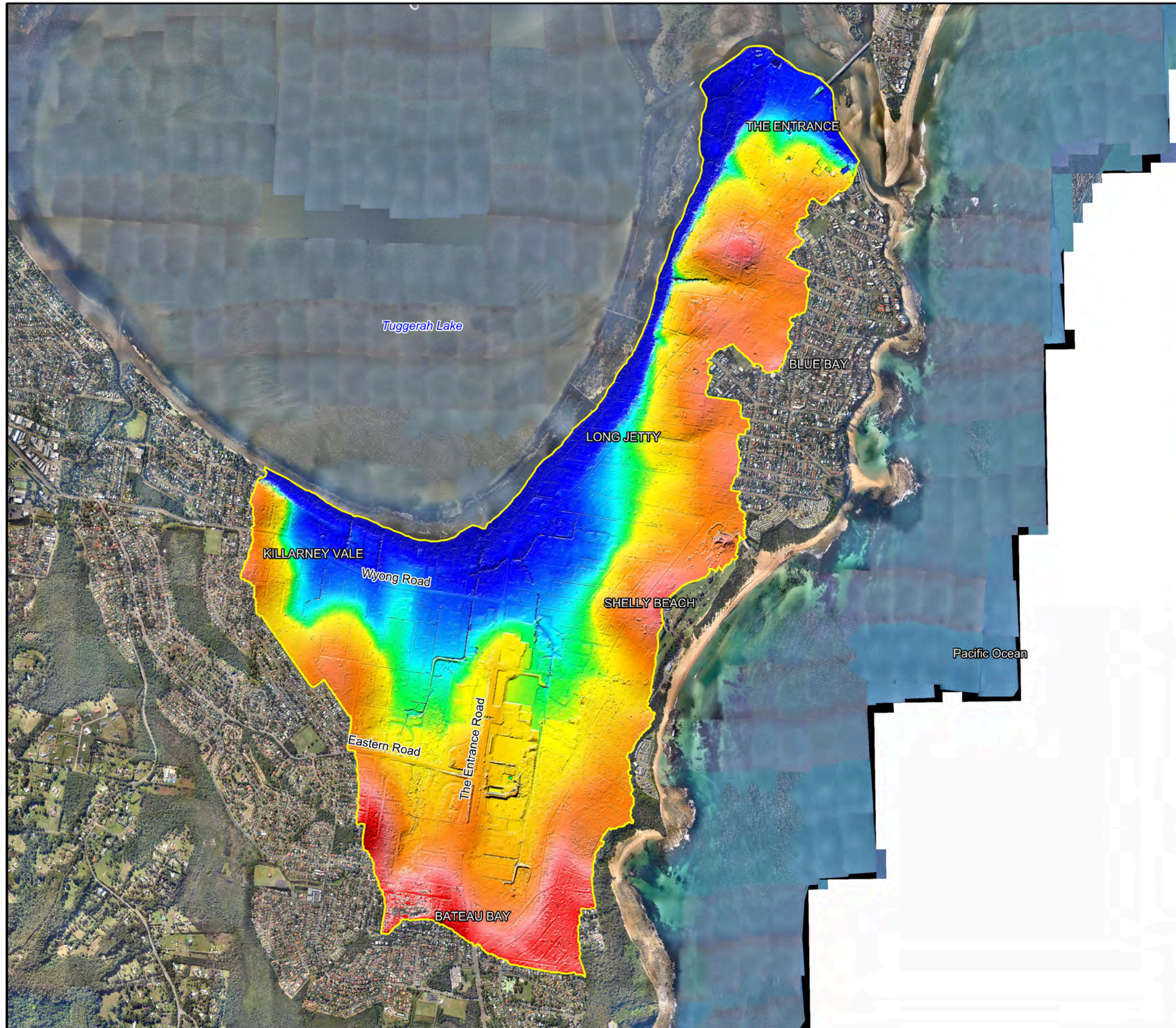
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**Figure 2:
Existing Flood
Detention Basins**

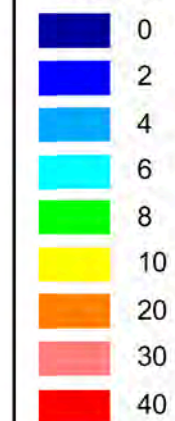
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Sydney, NSW 2000

File Name: Fig2 Detention Basins.wor



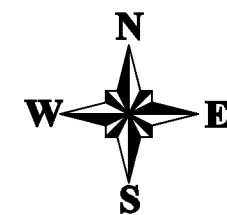
LEGEND

Ground Surface Elevation (mAHD)

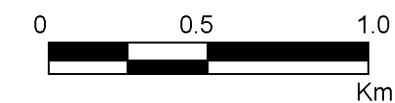


Notes:

Aerial photograph date: 2013



Scale 1:24,000 (at A3)



**Figure 3:
Ground Surface
Elevations**

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File Name: Fig3 DEM.wor

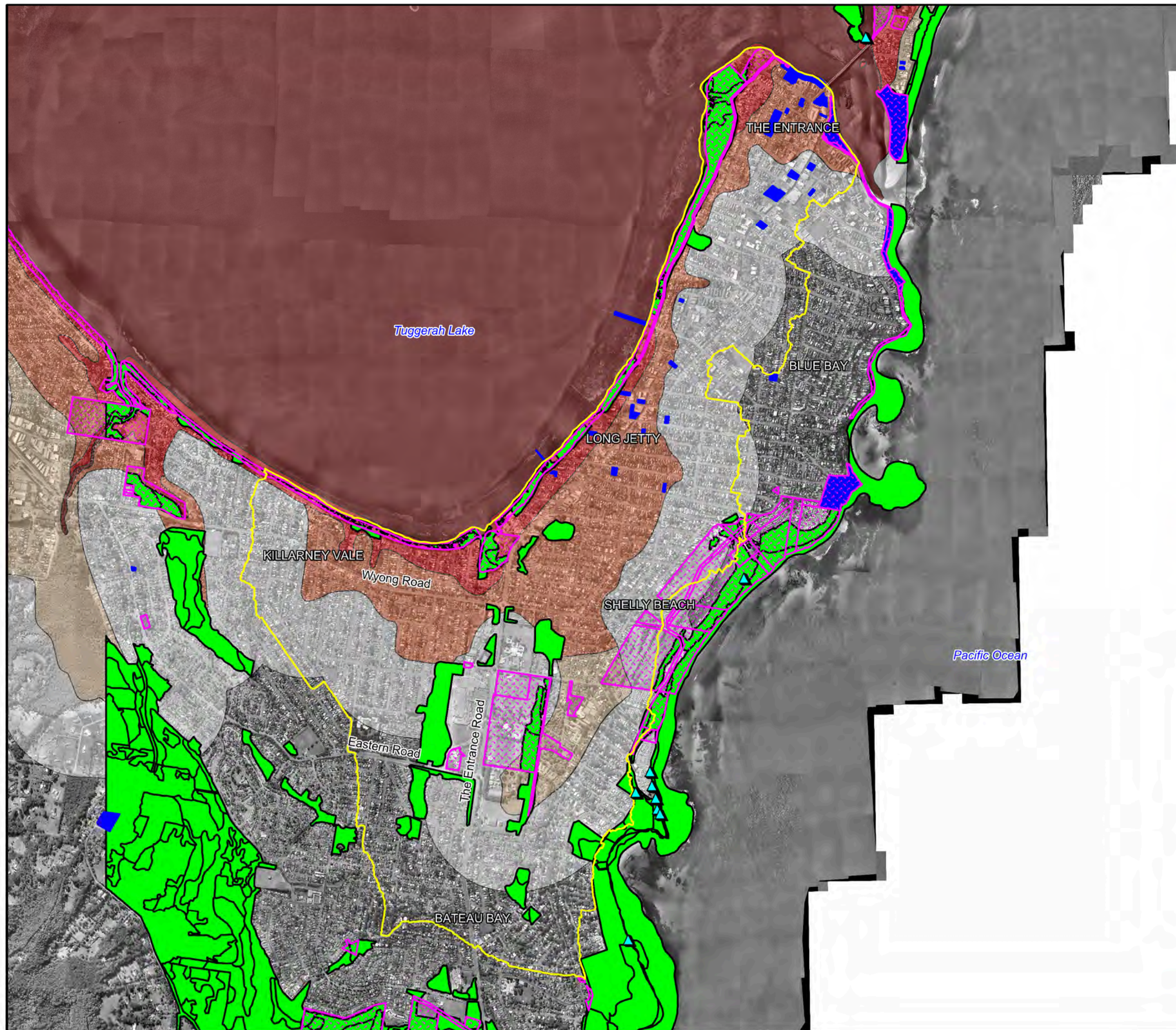


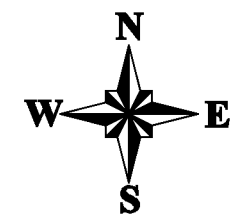
Figure Extent

LEGEND

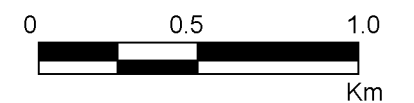
- Catchment Boundary
- Heritage Site
- Vegetation Community
- Reserves in Trust
- Aboriginal Heritage Site
- Acid & Sulphate Soil Risk**
 - Class 1 (High)
 - Class 2
 - Class 3
 - Class 4
 - Class 5 (Low)

Notes:

Aerial photograph date: 2013



Scale 1:24,000 (at A3)



**Figure 4:
Environmental and
Heritage Constraints**

Prepared By:

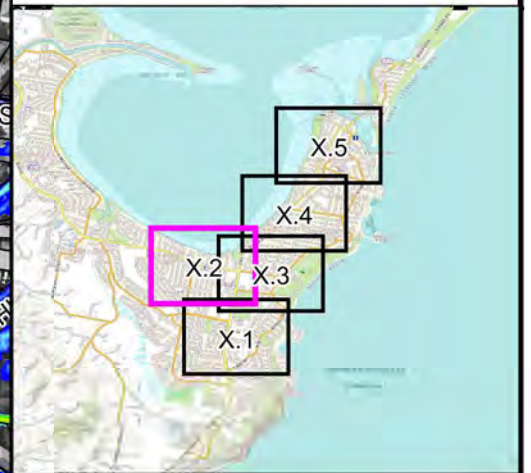
Catchment Simulation Solutions
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Sydney, NSW 2000

File Name: Fig4 Environmental and Heritage
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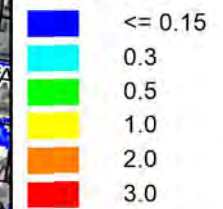
FLOOD MAPS FOR EXISTING CONDITIONS





LEGEND

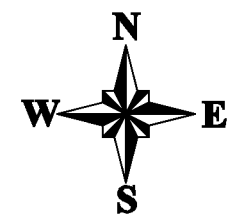
Depths (m)



Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

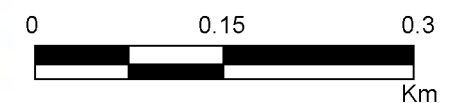


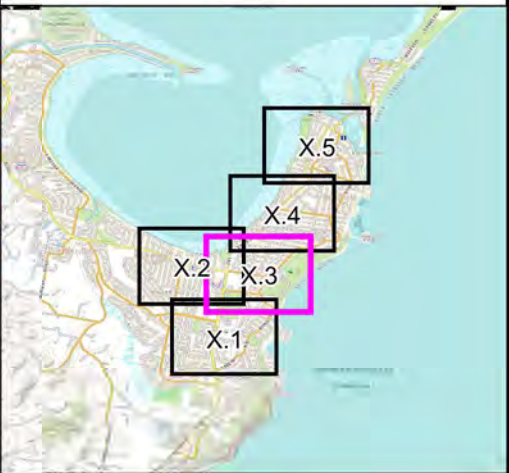
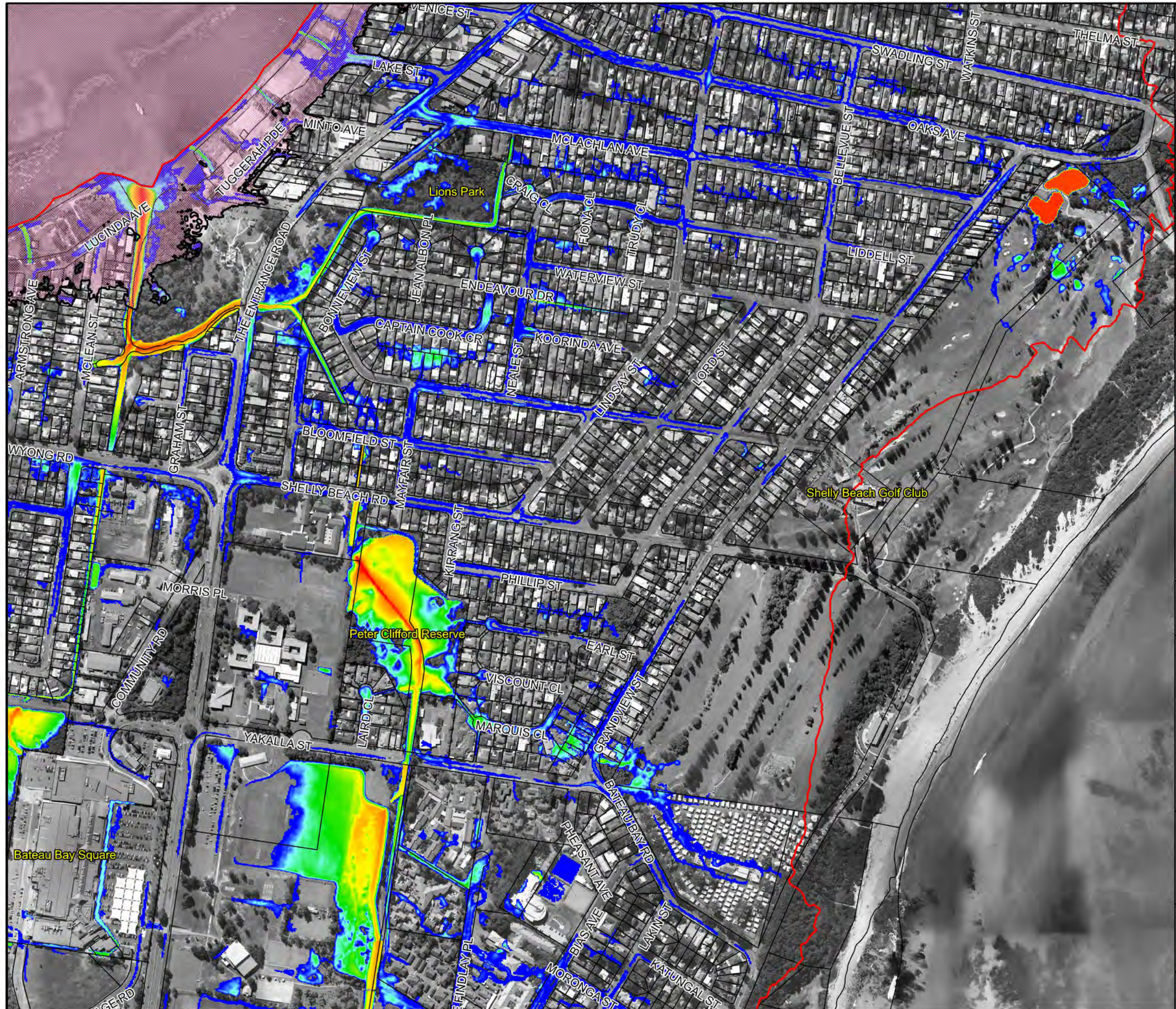
Figure 5.2
Peak Floodwater
Depths for the
20% AEP Flood

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Sydney, NSW 2000

Depths for the 20% AEP Flood.wor





LEGEND

- Depths (m)
- <= 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
 - 3.0
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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Aerial photograph date: 2013

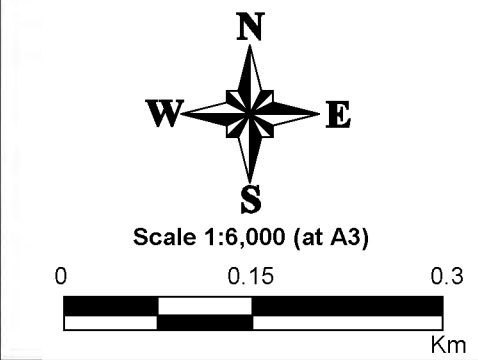
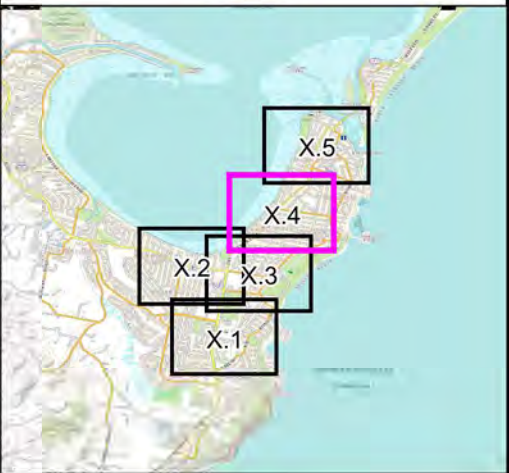


Figure 5.3
Peak Floodwater
Depths for the
20% AEP Flood

Prepared By:
Catchment Simulation Solutions
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Sydney, NSW 2000
Depths for the 20% AEP Flood.wor



LEGEND

- Depths (m)
- ≤ 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
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- Tuggerah Lake Inundation Area.
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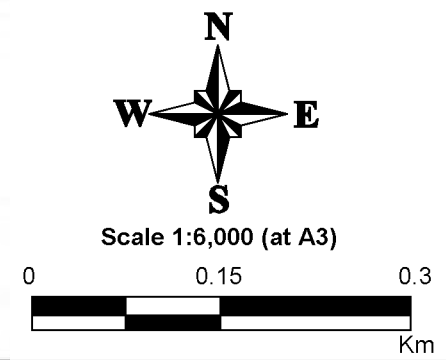
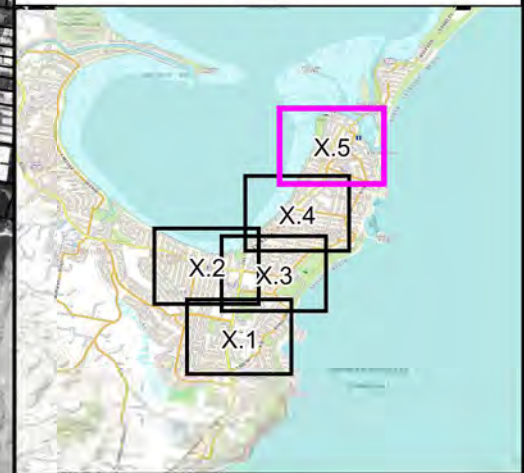


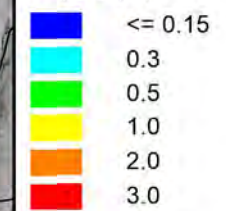
Figure 5.4
Peak Floodwater
Depths for the
20% AEP Flood

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Sydney, NSW 2000
Depths for the 20% AEP Flood.wor



LEGEND

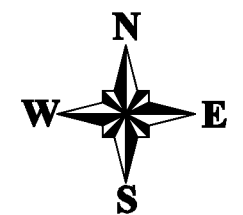
Depths (m)



Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)



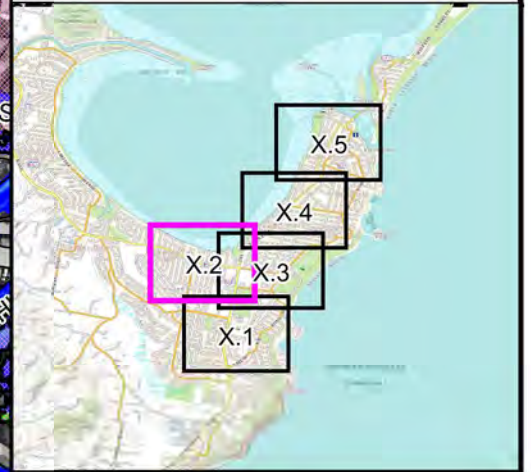
Figure 5.5
Peak Floodwater
Depths for the
20% AEP Flood

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Sydney, NSW 2000

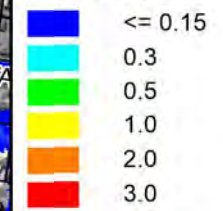
Depths for the 20% AEP Flood.wor





LEGEND

Depths (m)



Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

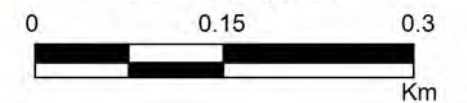
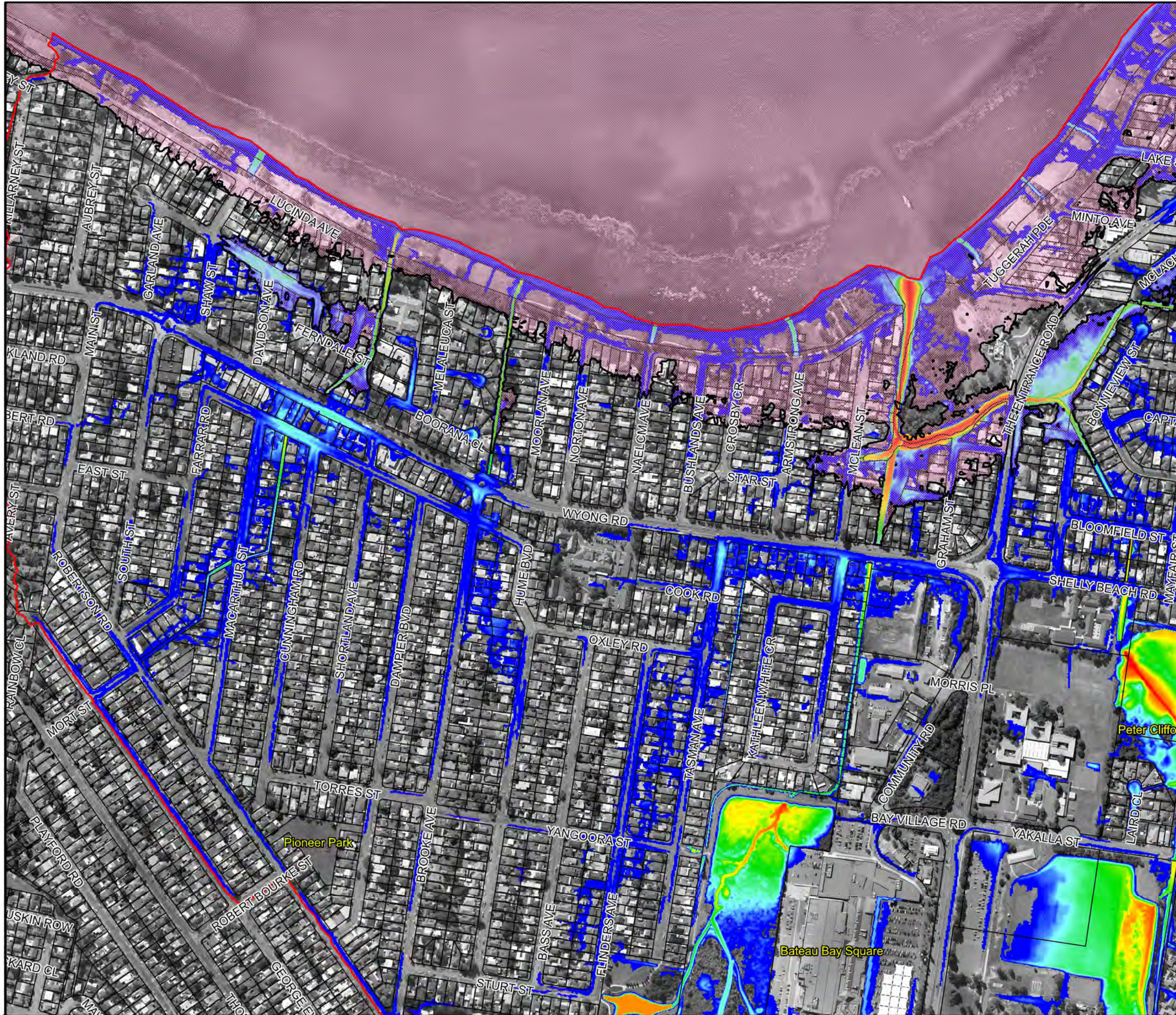


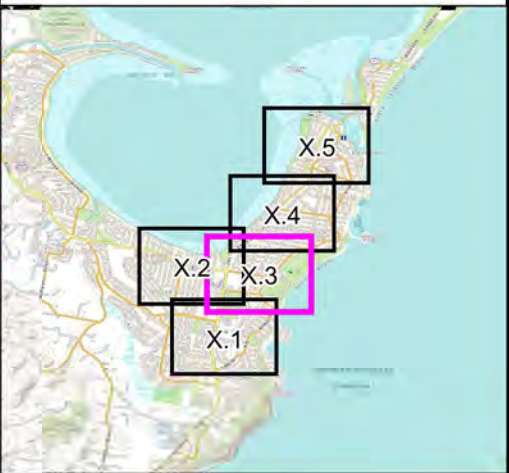
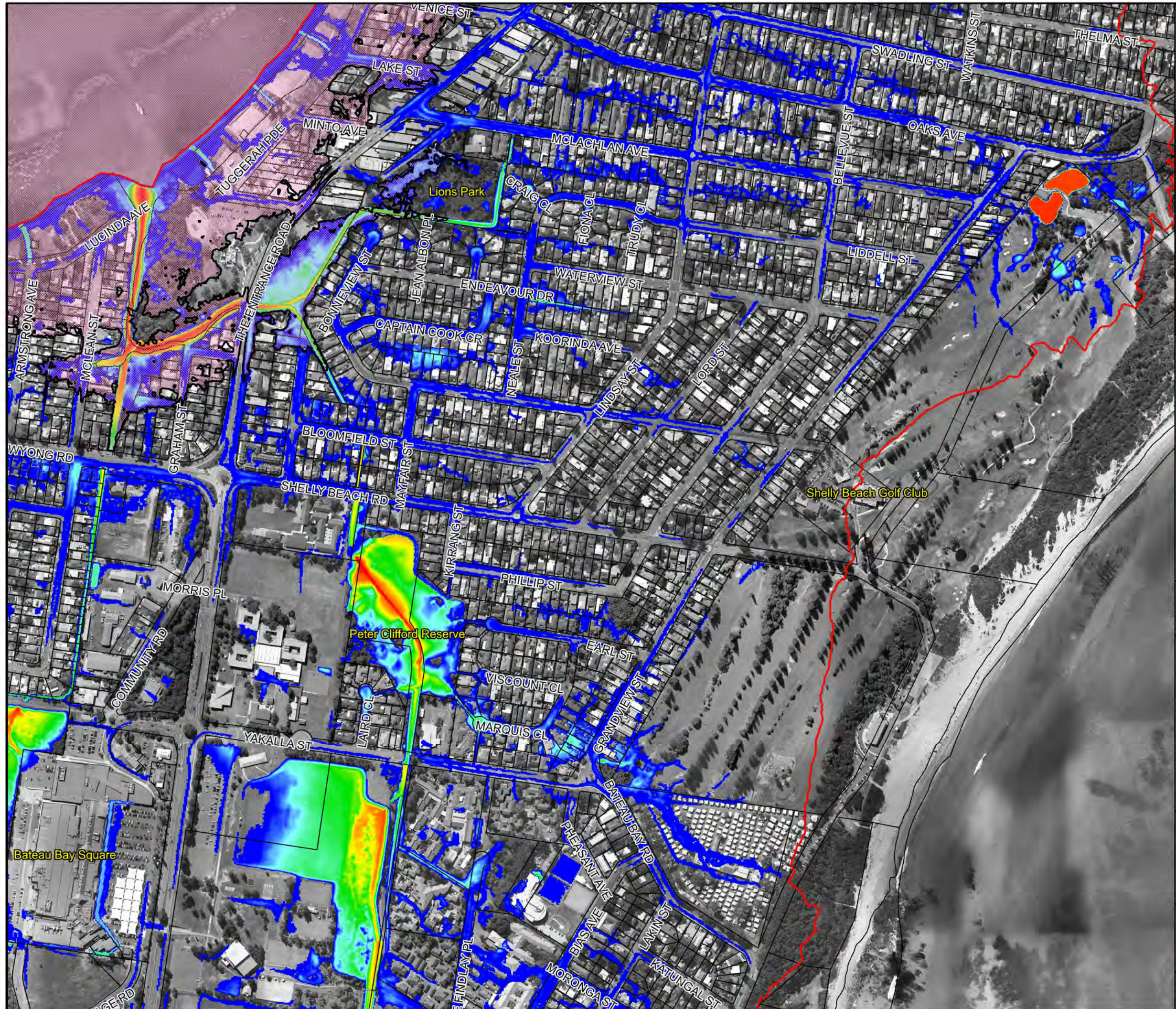
Figure 6.2
Peak Floodwater
Depths for the
5% AEP Flood

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Depths for the 5% AEP Flood.wor





LEGEND

- Depths (m)
- <= 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
 - 3.0
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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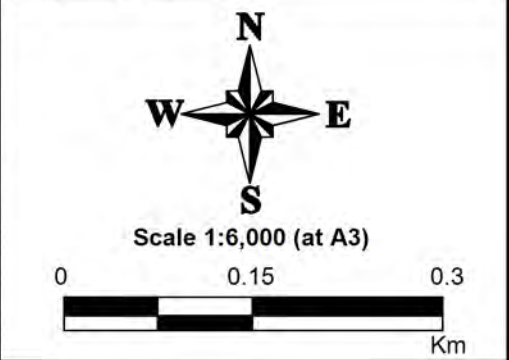
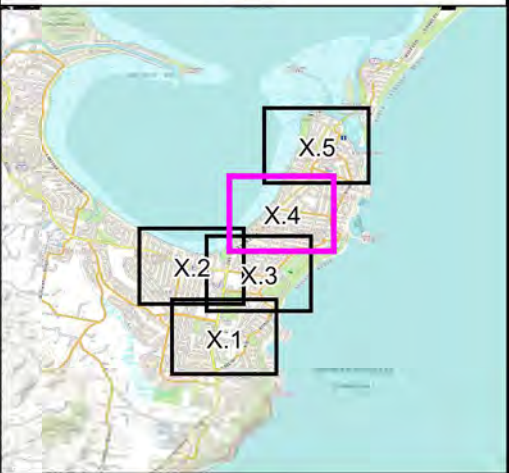


Figure 6.3
Peak Floodwater
Depths for the
5% AEP Flood



LEGEND

- Depths (m)
- ≤ 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
 - 3.0
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

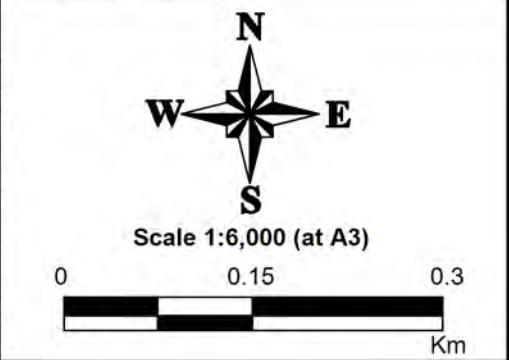
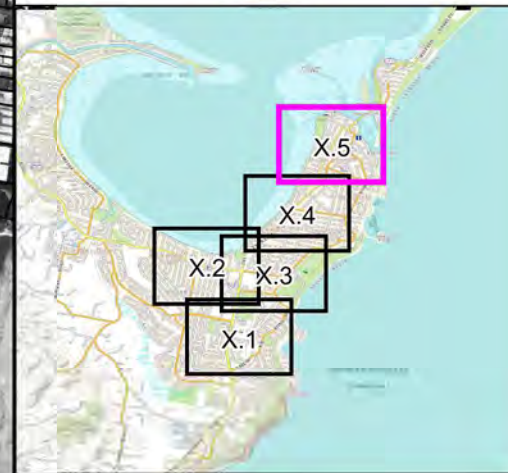


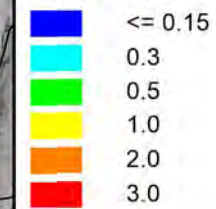
Figure 6.4
Peak Floodwater
Depths for the
5% AEP Flood

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Sydney, NSW 2000
Depths for the 5% AEP Flood.wor



LEGEND

Depths (m)



Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



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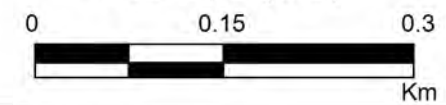


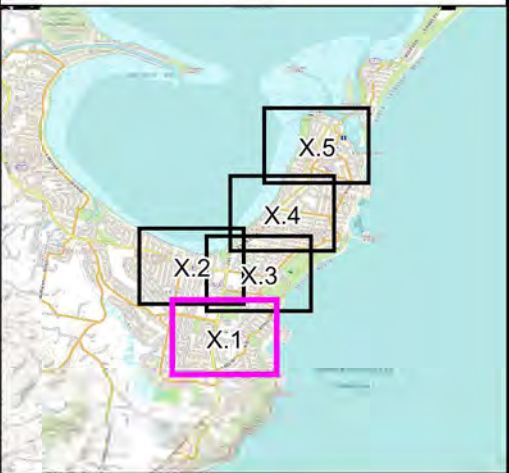
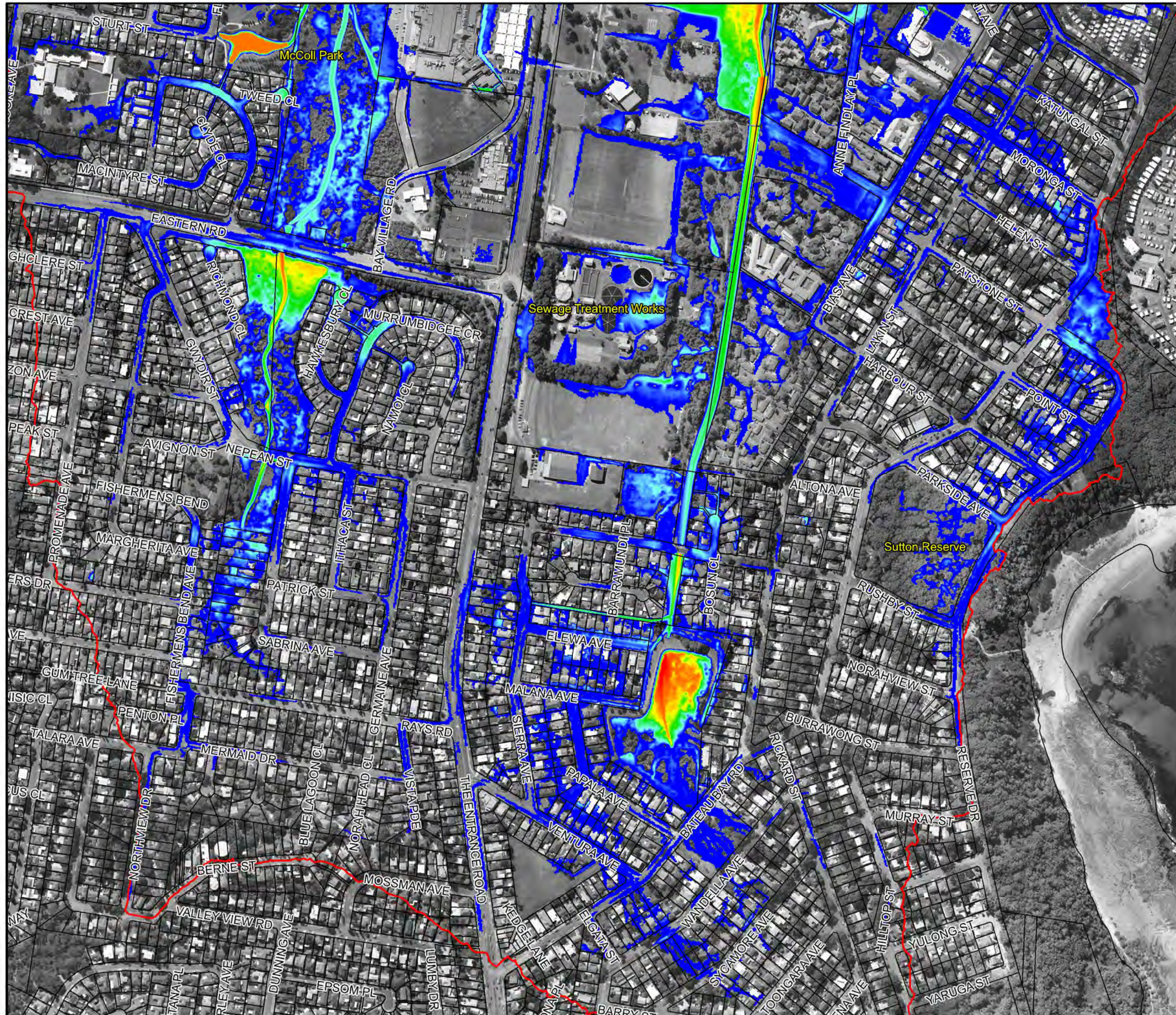
Figure 6.5
Peak Floodwater
Depths for the
5% AEP Flood

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Sydney, NSW 2000

Depths for the 5% AEP Flood.wor





LEGEND

- Depths (m)
- ≤ 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
 - 3.0
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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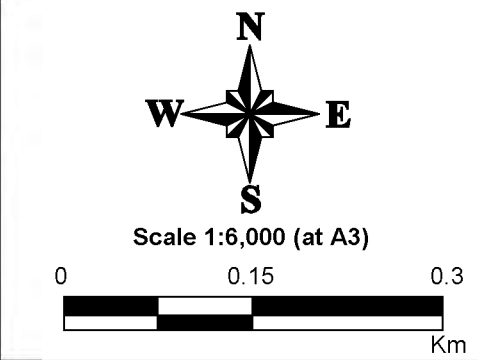
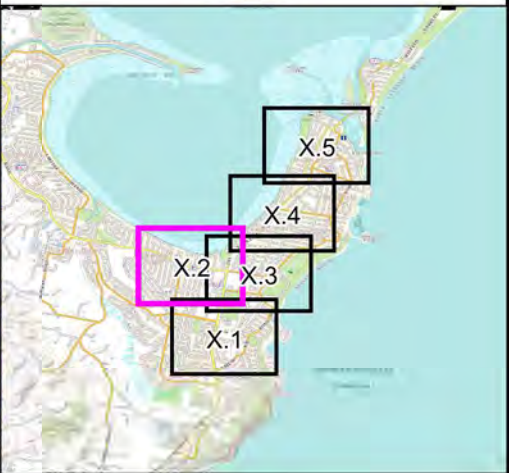
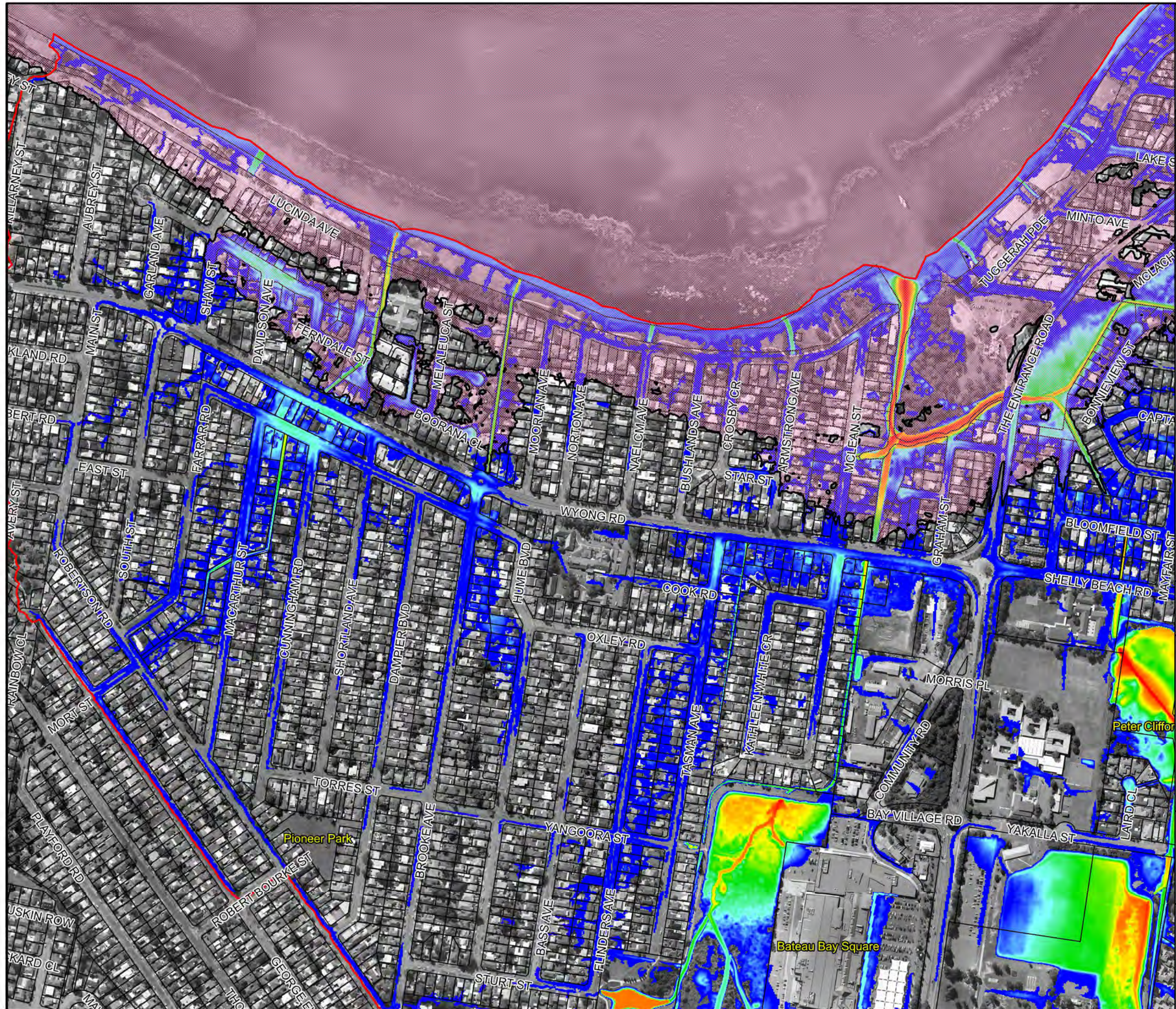


Figure 7.1
Peak Floodwater
Depths for the
1% AEP Flood

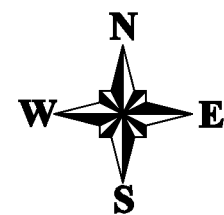
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Sydney, NSW 2000
Depths for the 1% AEP Flood.wor



LEGEND

| Depths (m) | |
|------------|---|
| | <= 0.15 |
| | 0.3 |
| | 0.5 |
| | 1.0 |
| | 2.0 |
| | 3.0 |
| | Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information |

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

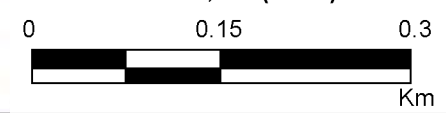
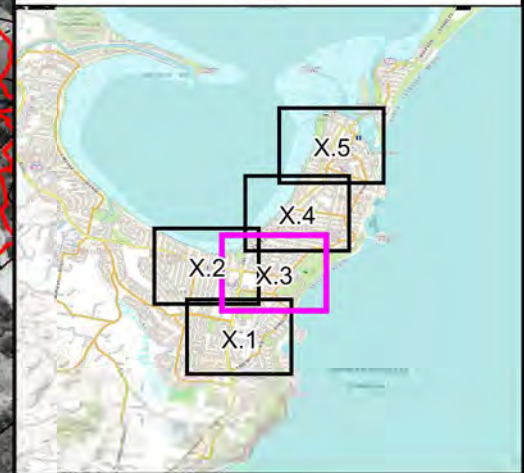
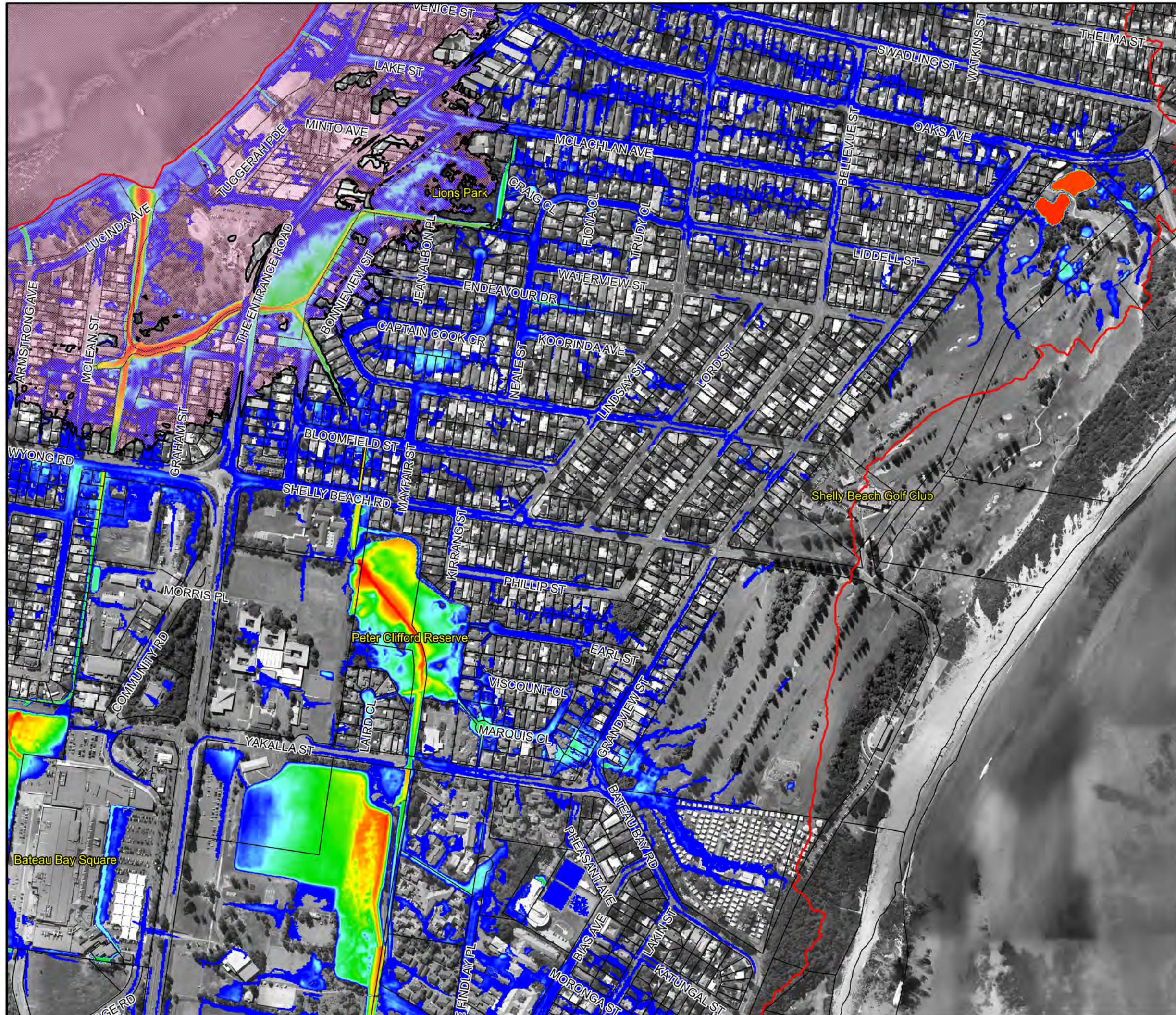


Figure 7.2
Peak Floodwater
Depths for the
1% AEP Flood

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Sydney, NSW 2000
Depths for the 1% AEP Flood.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

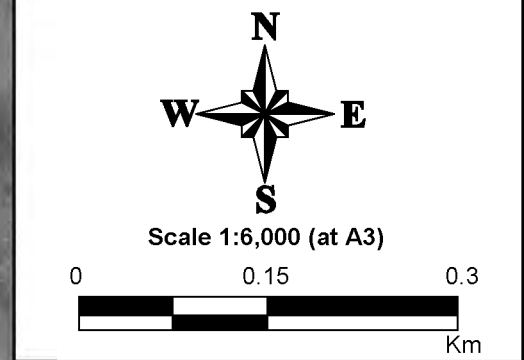
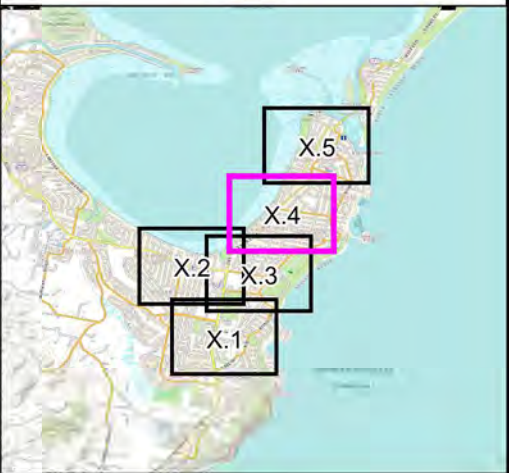


Figure 7.3
Peak Floodwater
Depths for the
1% AEP Flood

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Sydney, NSW 2000

Depths for the 1% AEP Flood.wor



LEGEND

- Depths (m)
- ≤ 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
 - 3.0
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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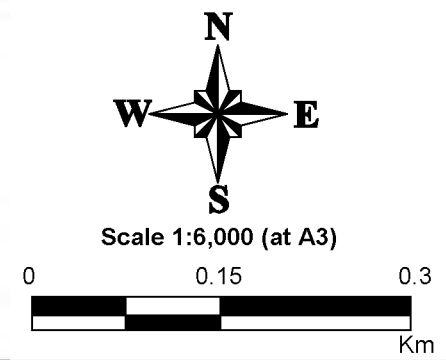

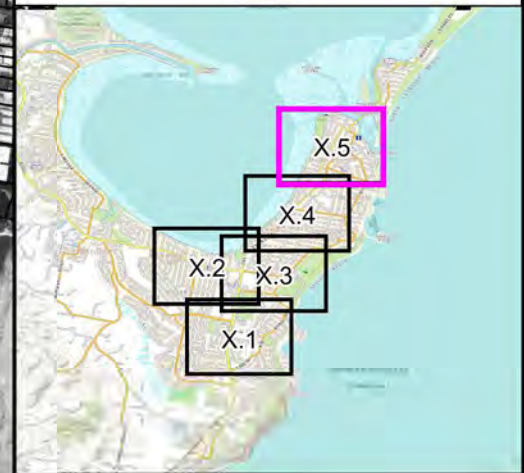


Figure 7.4
Peak Floodwater
Depths for the
1% AEP Flood

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Sydney, NSW 2000
Depths for the 1% AEP Flood.wor



LEGEND

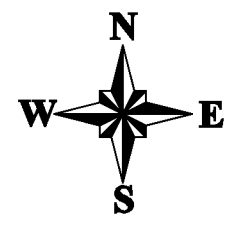
Depths (m)

- <= 0.15
- 0.3
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- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

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Scale 1:6,000 (at A3)



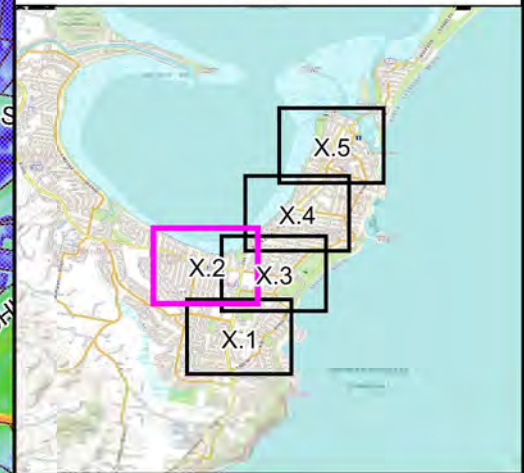
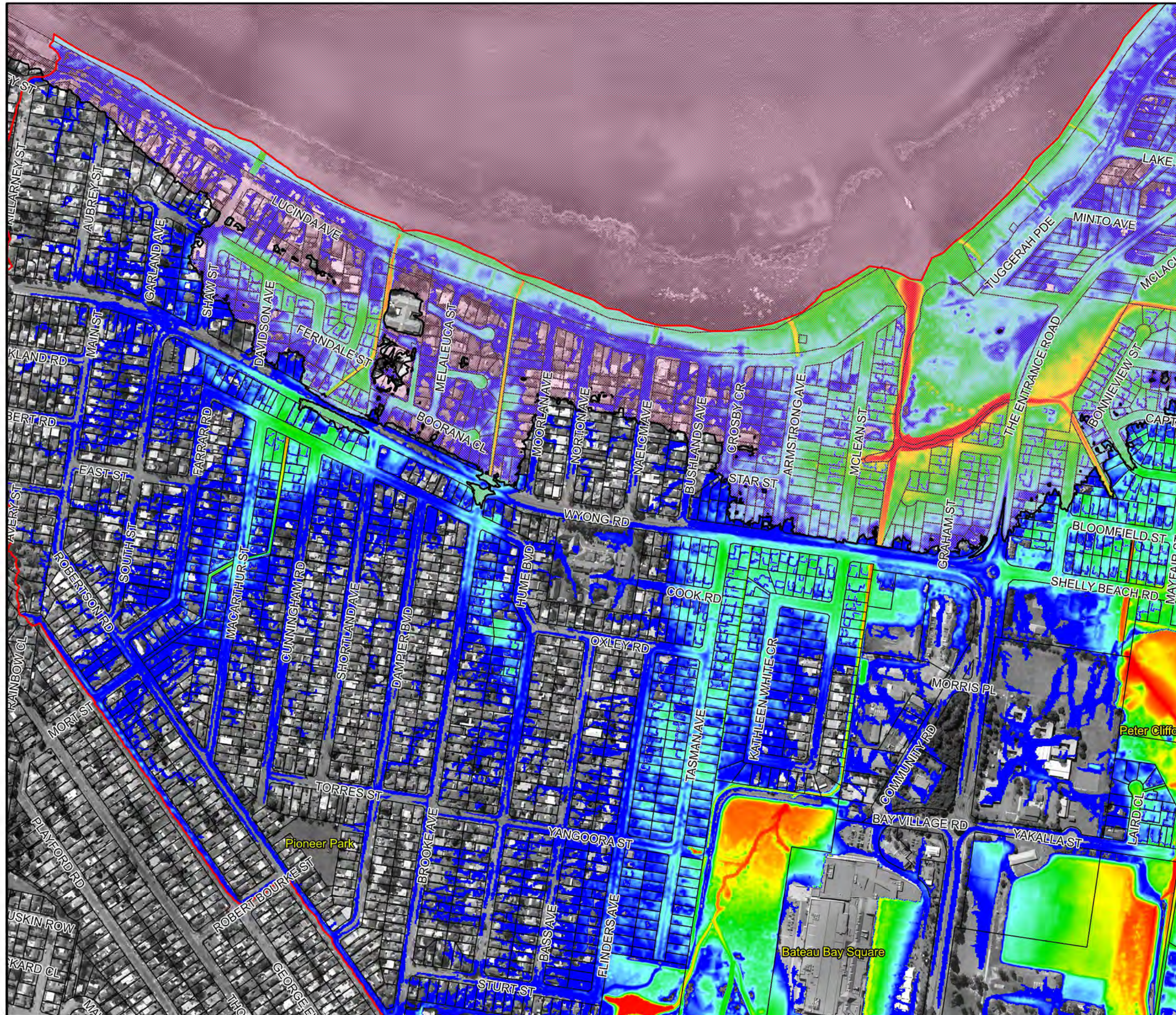
Figure 7.5
Peak Floodwater
Depths for the
1% AEP Flood

Prepared By:

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Sydney, NSW 2000

Depths for the 1% AEP Flood.wor





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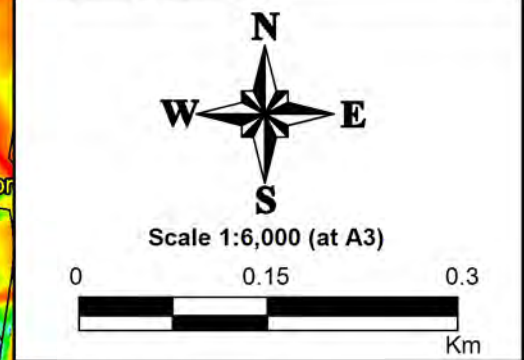
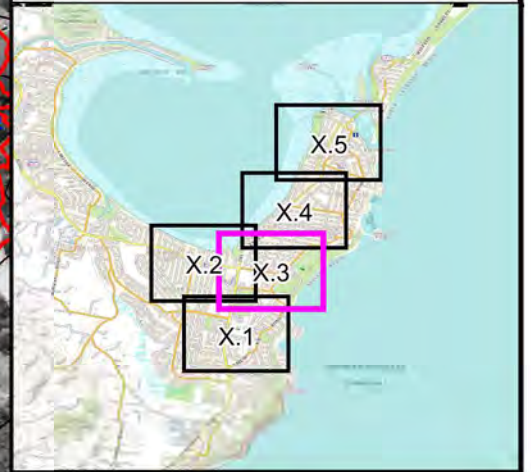


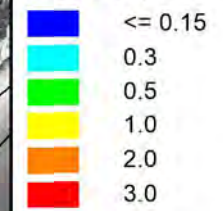
Figure 8.2
Peak Floodwater
Depths for the
PMF

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Sydney, NSW 2000
Depths for the PMF.wor



LEGEND

Depths (m)



Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

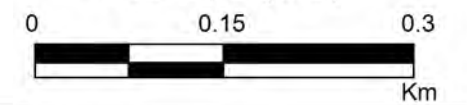
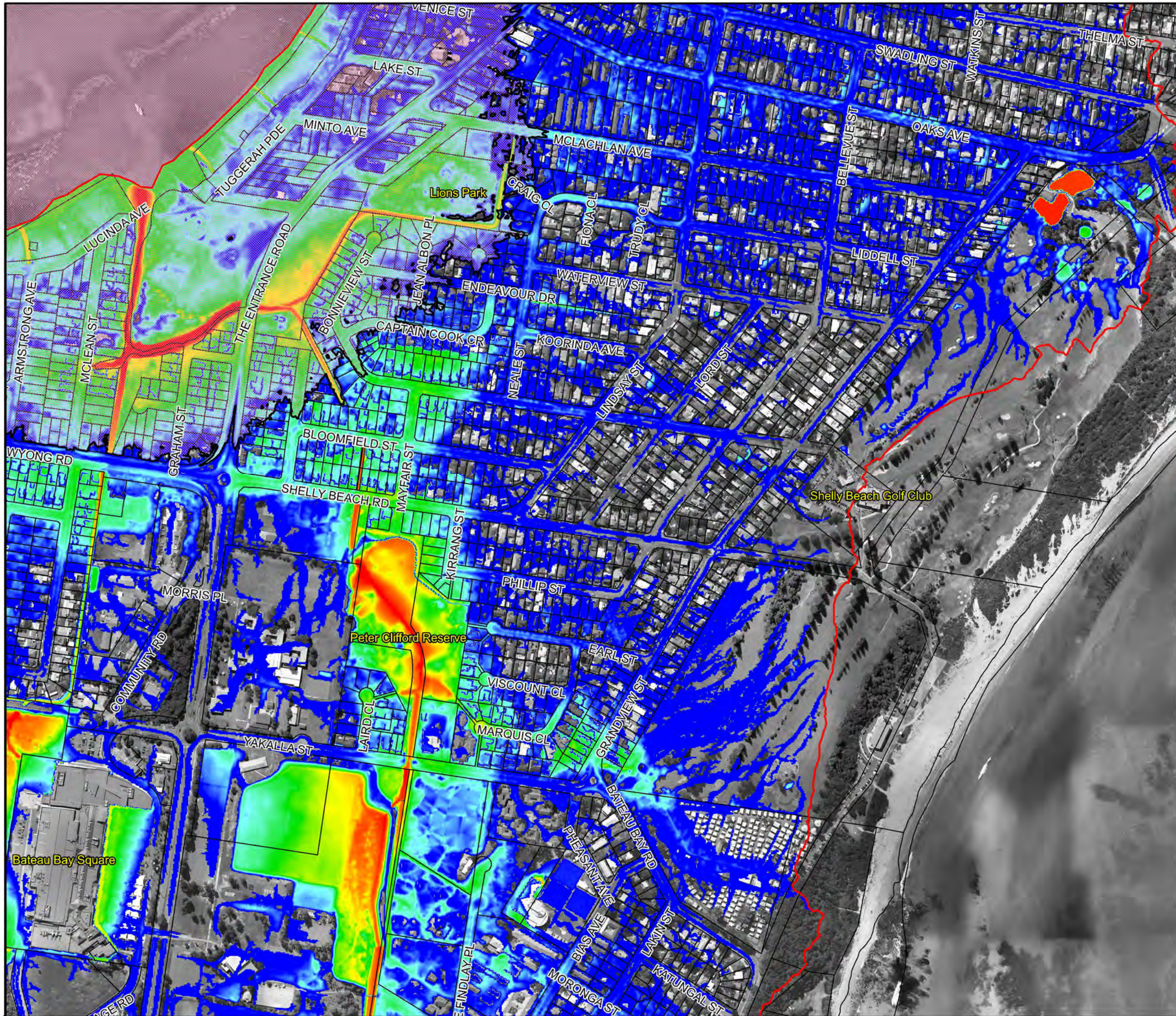


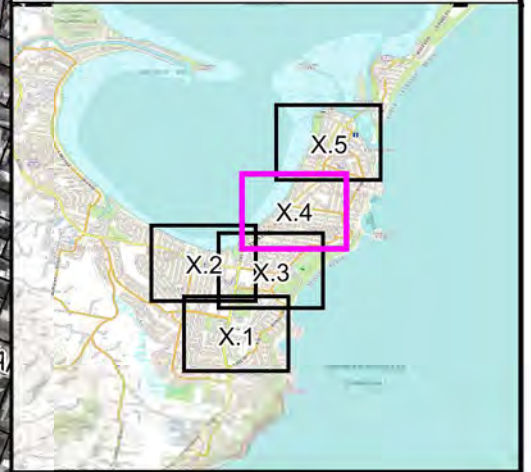
Figure 8.3
Peak Floodwater
Depths for the
PMF

Prepared By:

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

Depths for the PMF.wor





LEGEND

Depths (m)

- ≤ 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

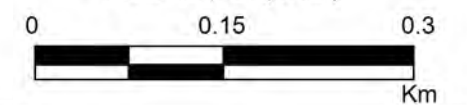


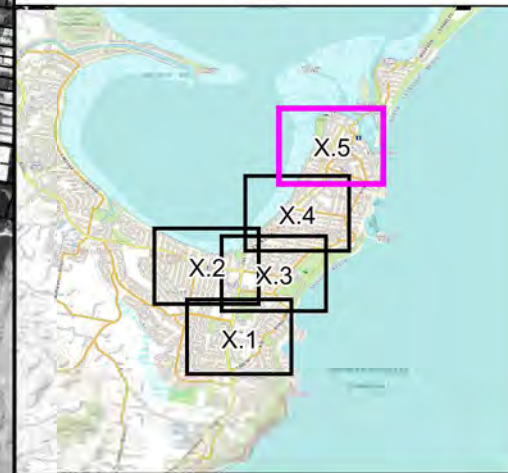
Figure 8.4
Peak Floodwater
Depths for the
PMF

Prepared By:

Catchment Simulation Solutions
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Sydney, NSW 2000

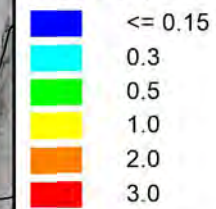
Depths for the PMF.wor





LEGEND

Depths (m)



Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

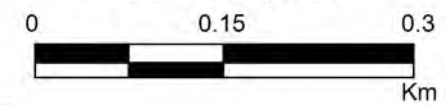


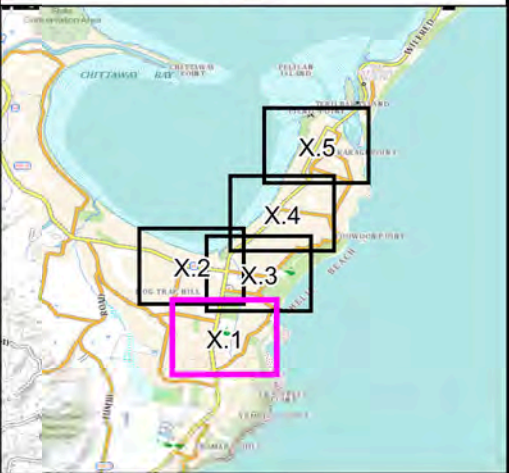
Figure 8.5
Peak Floodwater
Depths for the
PMF

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Sydney, NSW 2000

Depths for the PMF.wor





LEGEND

Catchment Boundary

Failure AEP

- <20%AEP
- 20%AEP
- 5%AEP
- 1%AEP or better

Pit Failure Type

- No Failure
- Surcharge
- Ponding

Notes:

Aerial photograph date: 2013

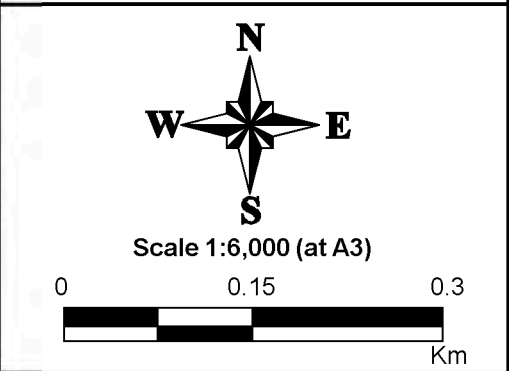
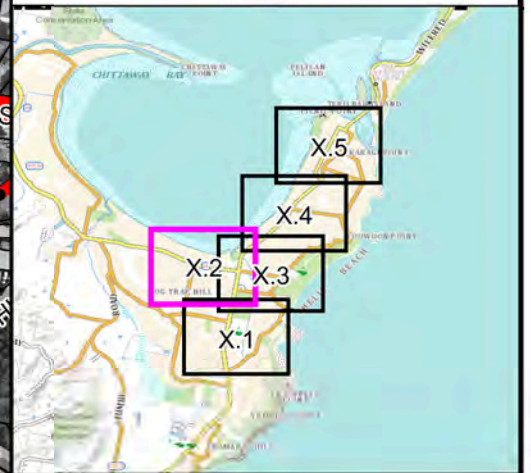


Figure 9.1
Stormwater Capacity



LEGEND

- Catchment Boundary
- Failure AEP**
 - <20%AEP
 - 20%AEP
 - 5%AEP
 - 1%AEP or better
- Pit Failure Type**
 - No Failure
 - Surcharge
 - Ponding

Notes:
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

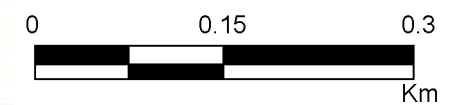


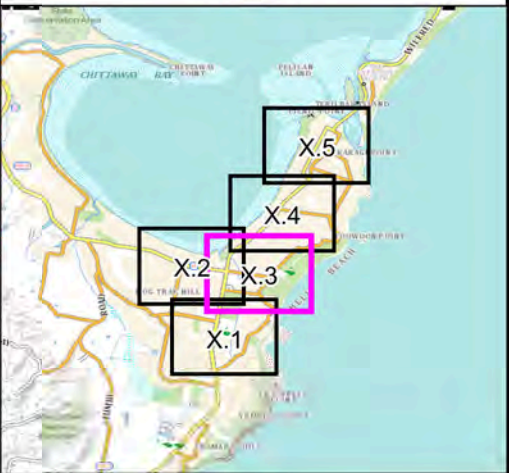
Figure 9.2
Stormwater Capacity

Prepared By:

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

Stormwater Capacity.wor





LEGEND

Catchment Boundary

Failure AEP

- <20%AEP
- 20%AEP
- 5%AEP
- 1%AEP or better

Pit Failure Type

- No Failure
- Surcharge
- Ponding

Notes:
Aerial photograph date: 2013

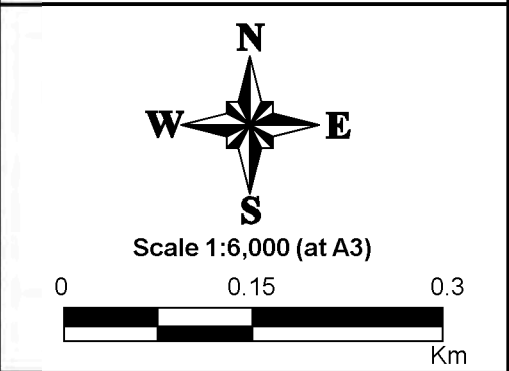
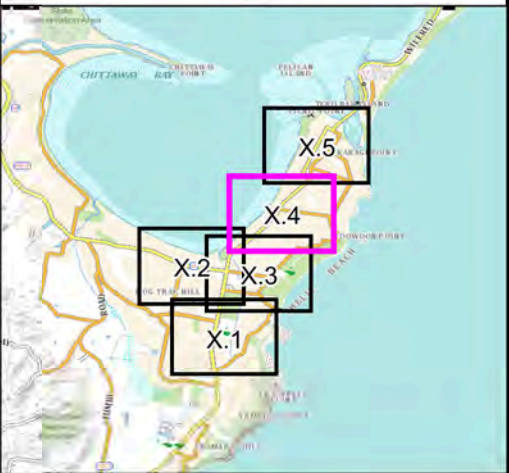


Figure 9.3
Stormwater Capacity



LEGEND

Catchment Boundary

Failure AEP

- <20%AEP
- 20%AEP
- 5%AEP
- 1%AEP or better

Pit Failure Type

- No Failure
- Surcharge
- Ponding

Notes:

Aerial photograph date: 2013

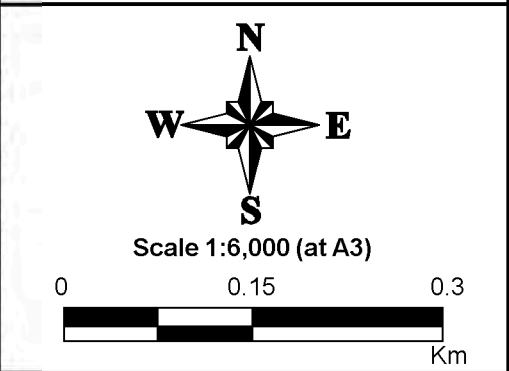
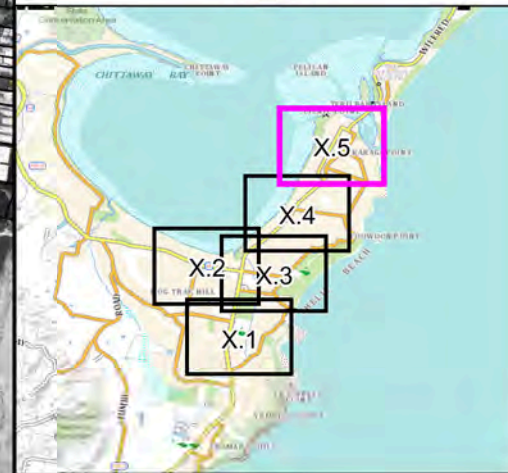


Figure 9.4
Stormwater Capacity

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Suite 2.01, 210 George St
Sydney, NSW 2000

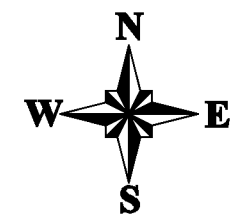
Stormwater Capacity.wor



LEGEND

- Catchment Boundary
- Failure AEP
 - <20%AEP
 - 20%AEP
 - 5%AEP
 - 1%AEP or better
- Pit Failure Type
 - No Failure
 - Surcharge
 - Ponding

Notes:
Aerial photograph date: 2013



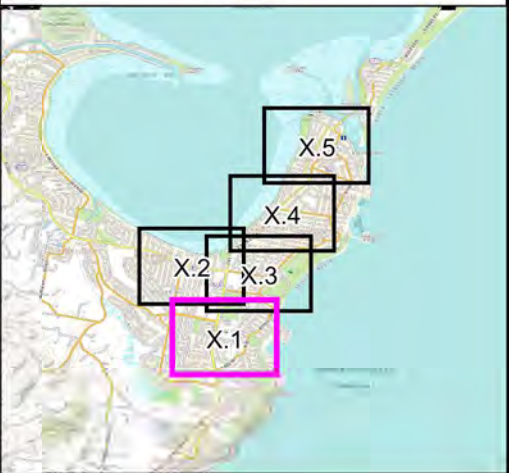
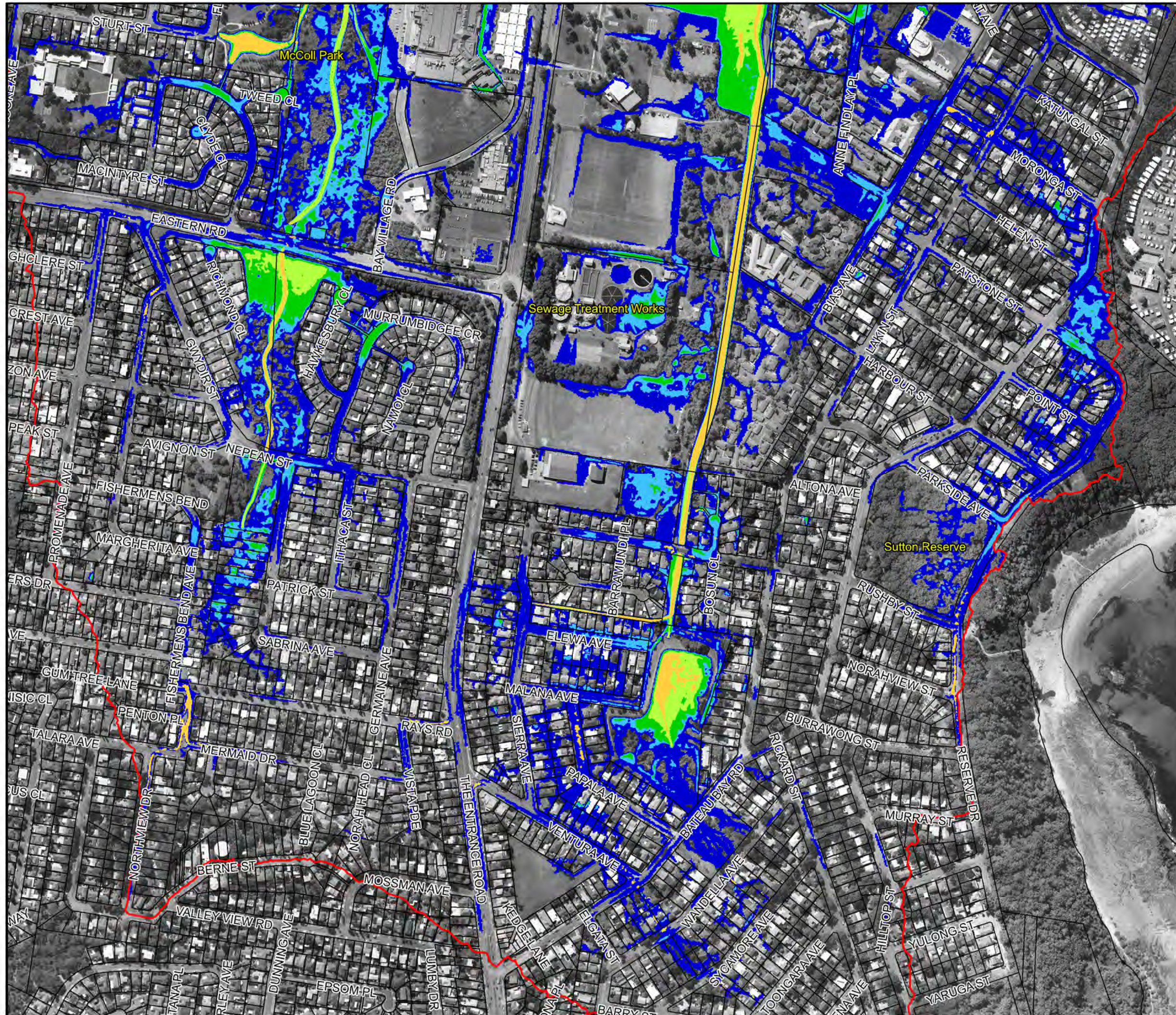
Scale 1:6,000 (at A3)



Figure 9.5
Stormwater Capacity

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Sydney, NSW 2000

Stormwater Capacity.wor



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area.**
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

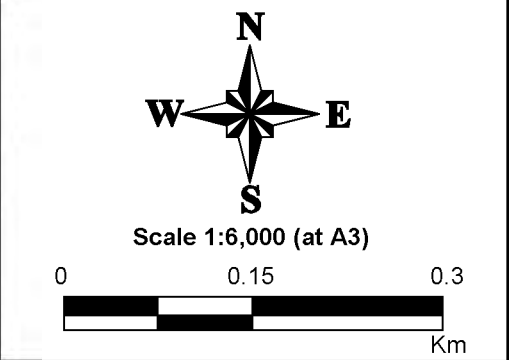
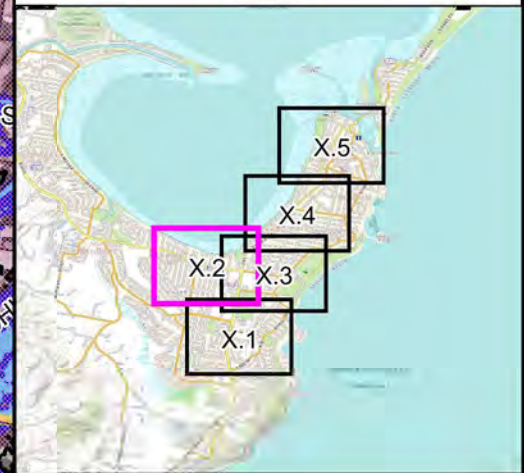
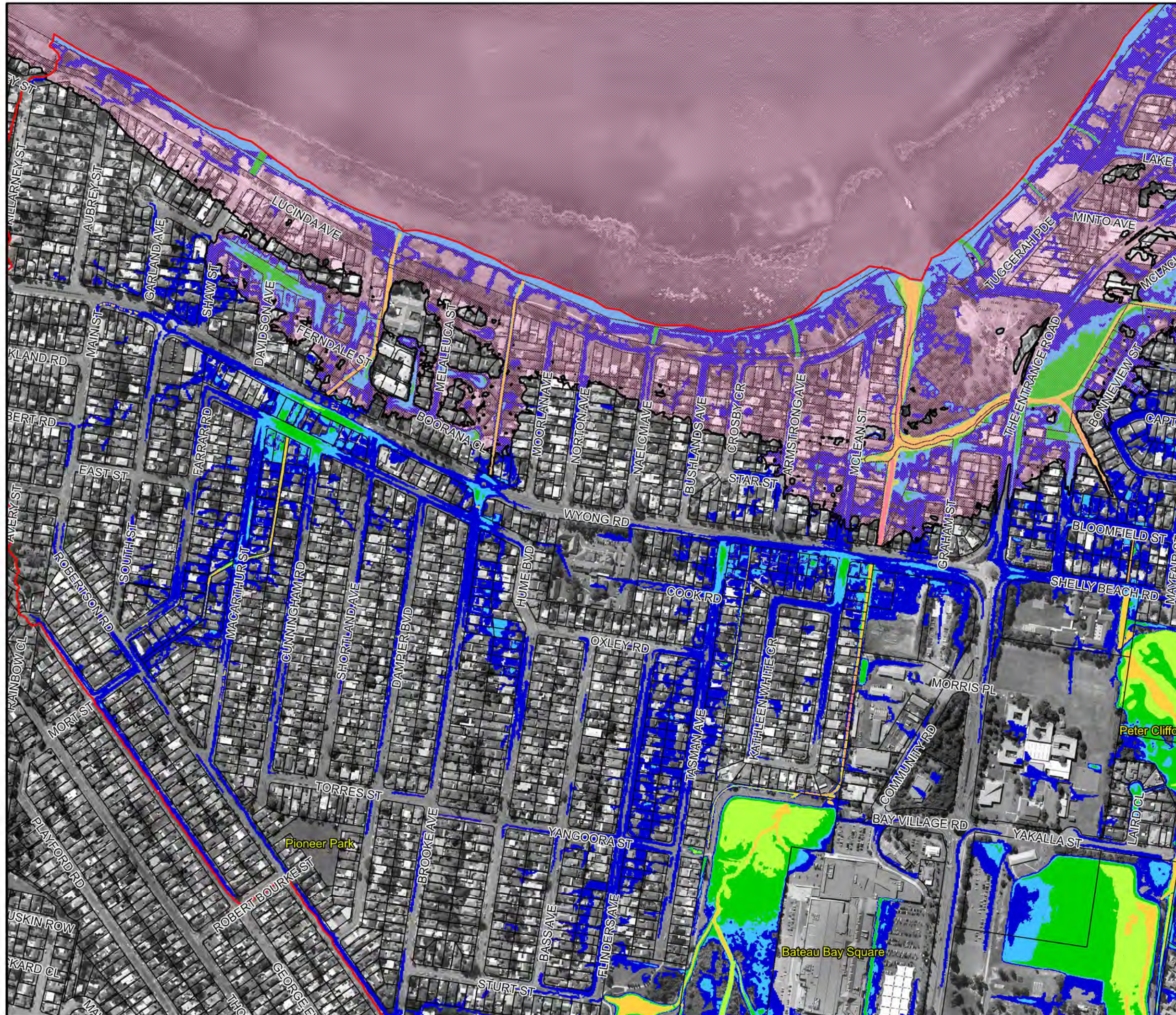


Figure 10.1:
Flood Hazard for the
1% AEP Flood

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Sydney, NSW 2000
File Name: Flood Hazard 1AEP.wor



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

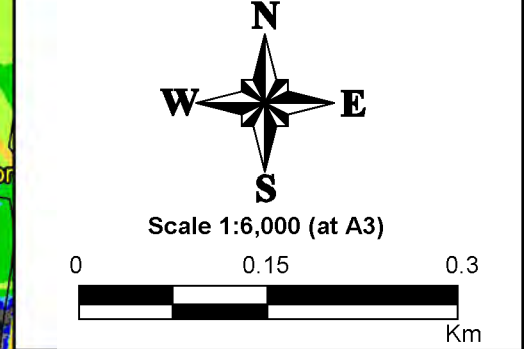
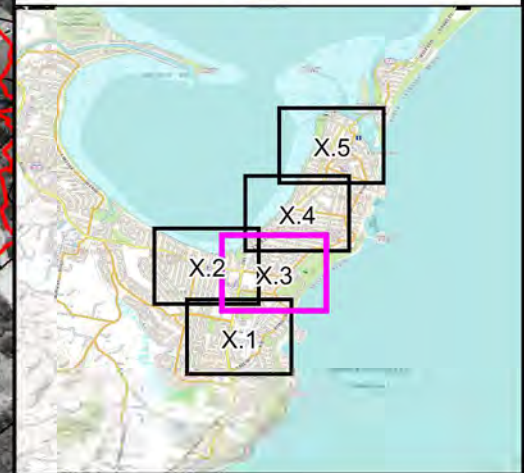
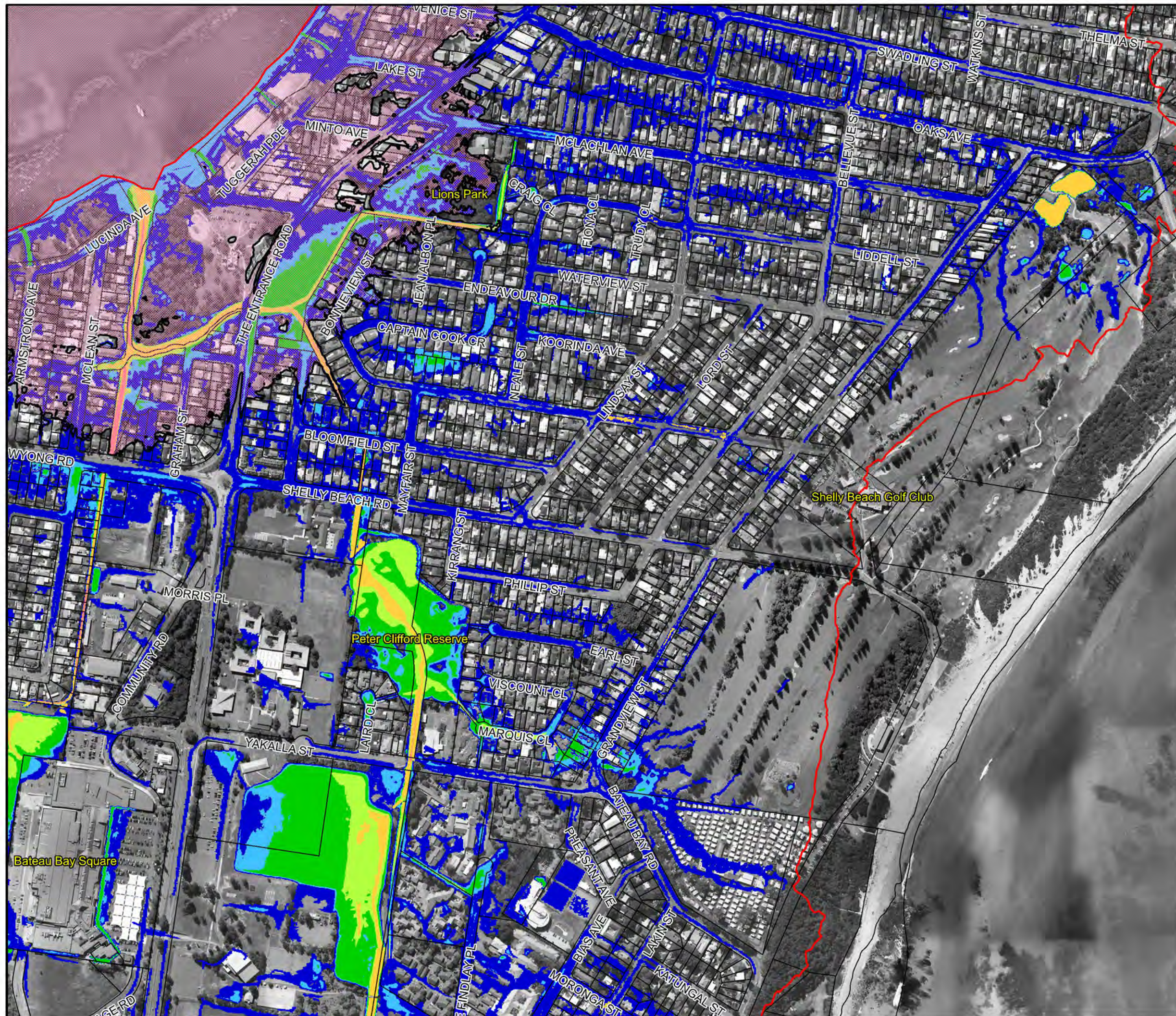


Figure 10.2:
Flood Hazard for the
1% AEP Flood



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area.
- Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

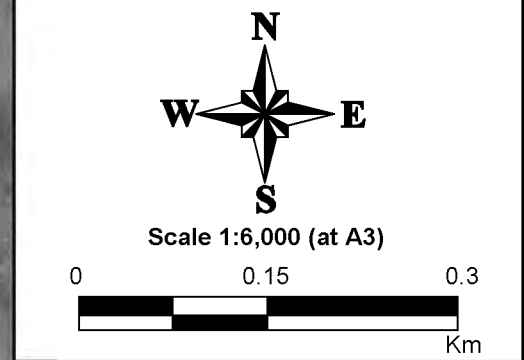
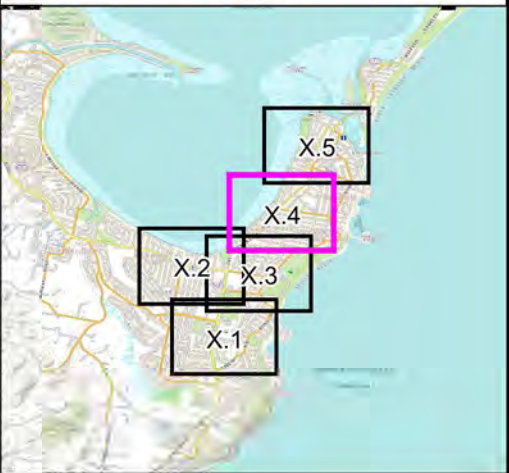


Figure 10.3:
Flood Hazard for the
1% AEP Flood



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

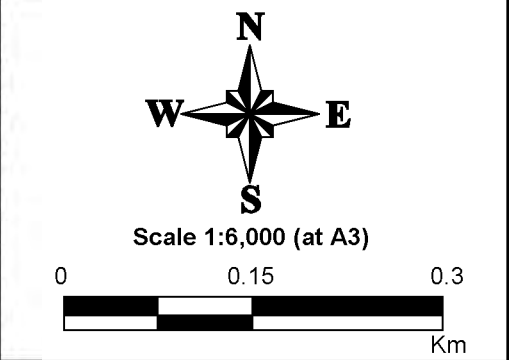


Figure 10.4:
Flood Hazard for the
1% AEP Flood

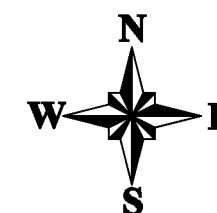
Prepared By:
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Sydney, NSW 2000
File Name: Flood Hazard 1AEP.wor

Hazard Categories

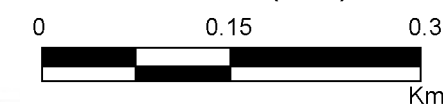
| | |
|---|--|
|  | H1 - Generally Safe |
|  | H2 - Unsafe for small vehicles |
|  | H3 - Unsafe for vehicles, children and elderly |
|  | H4 - Unsafe for people and vehicles |
|  | H5 - Unsafe for people and vehicles. Buildings require special design |
|  | H6 - Unsafe for people and vehicles. All buildings vulnerable to failure |
|  | Tuggerah Lake Inundation Area. |

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)



**Figure 10.5:
Flood Hazard for the
1% AEP Flood**

Prepared By:

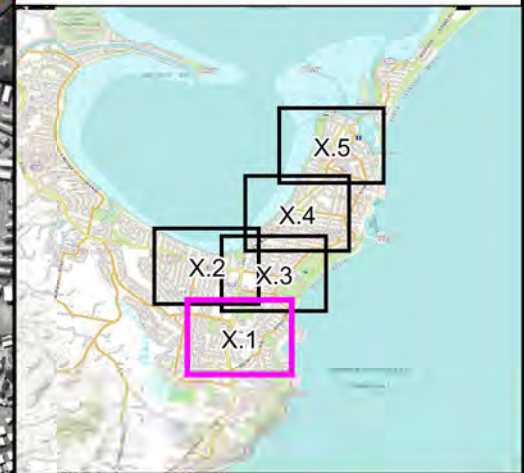
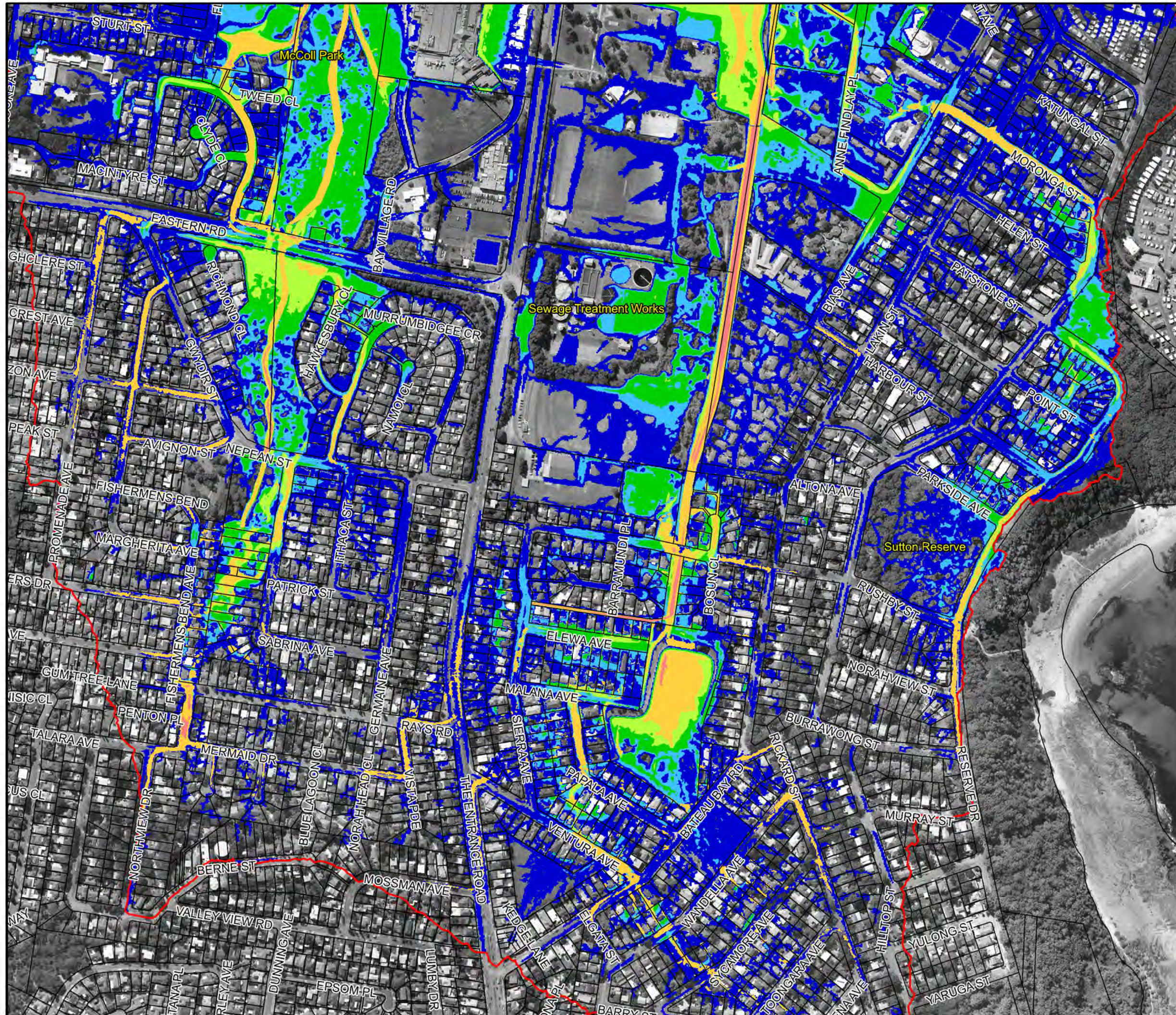


Catchment Simulation Solutions

Suite 2.01, 210 George St

Sydney, NSW 2000

File Name: Flood Hazard 1AEP.wor



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area.
- Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

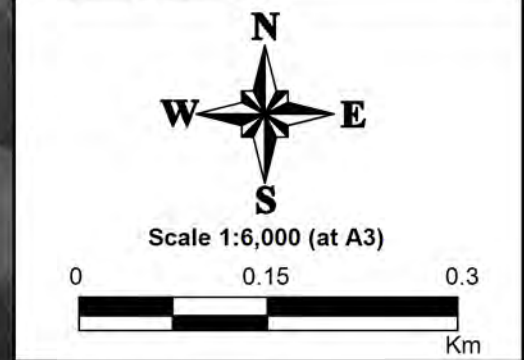
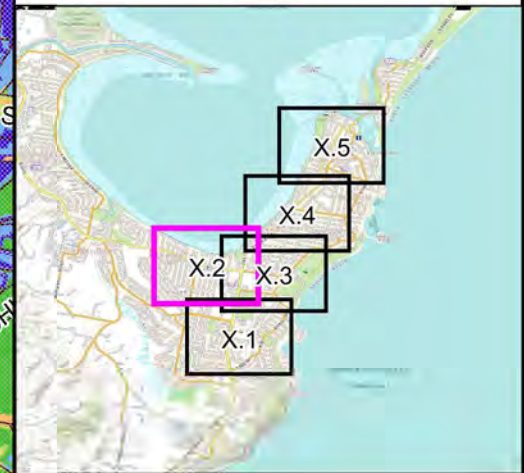
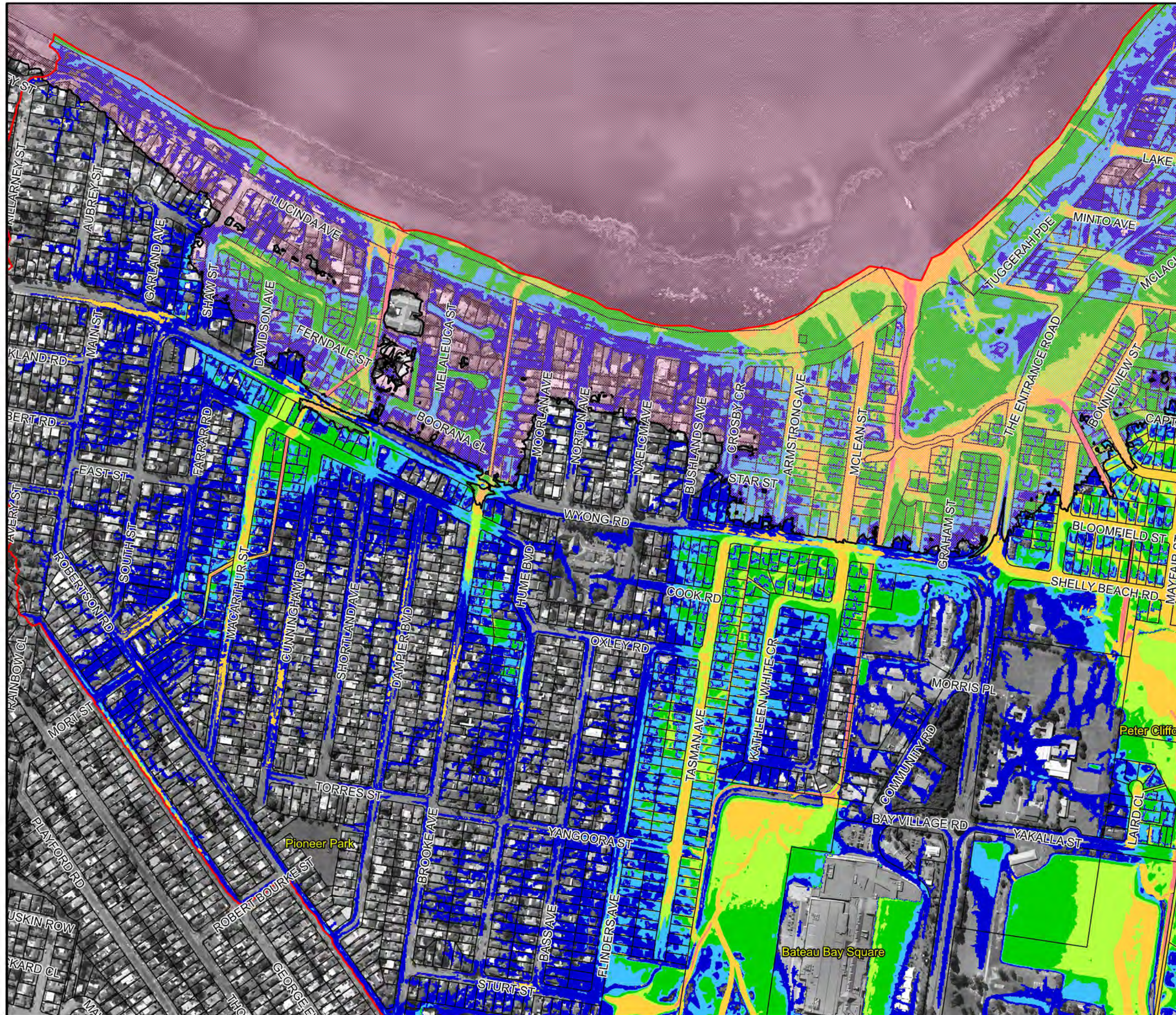


Figure 11.1:
Flood Hazard for the PMF



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

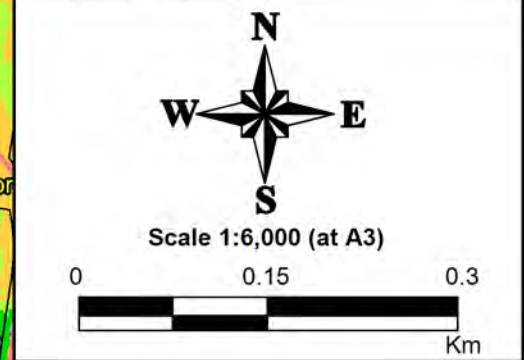
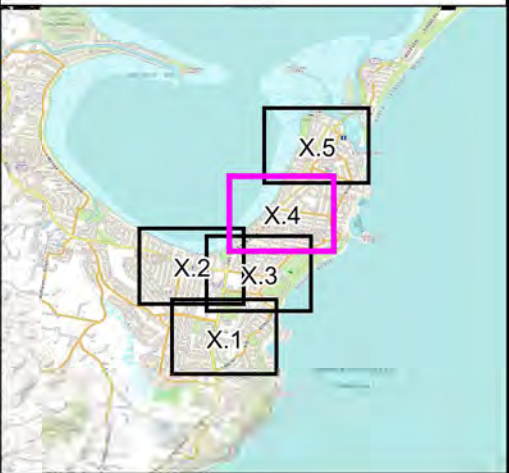


Figure 11.2:
Flood Hazard for the PMF



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area.
- Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

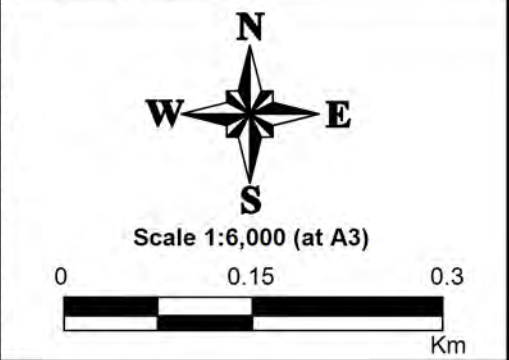
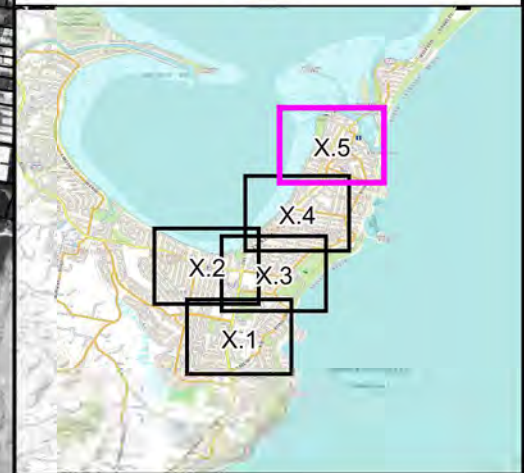


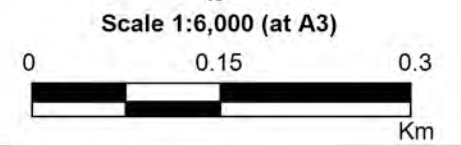
Figure 11.4:
Flood Hazard for the PMF



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area.**
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



**Figure 11.5:
Flood Hazard for the
PMF**

