

## Maps



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# Map G101

## Study Location

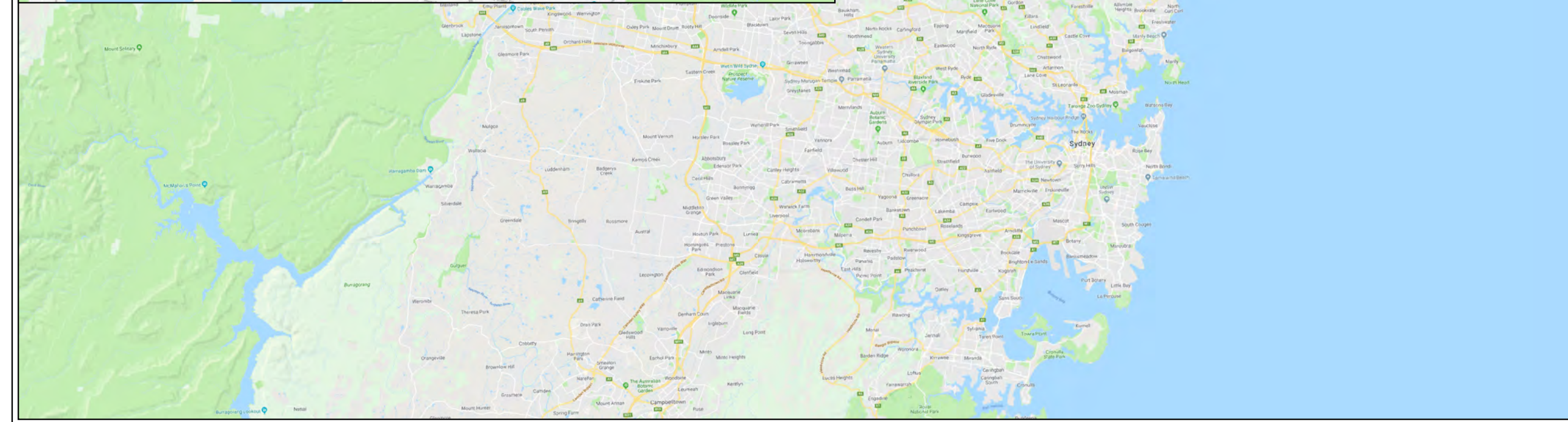
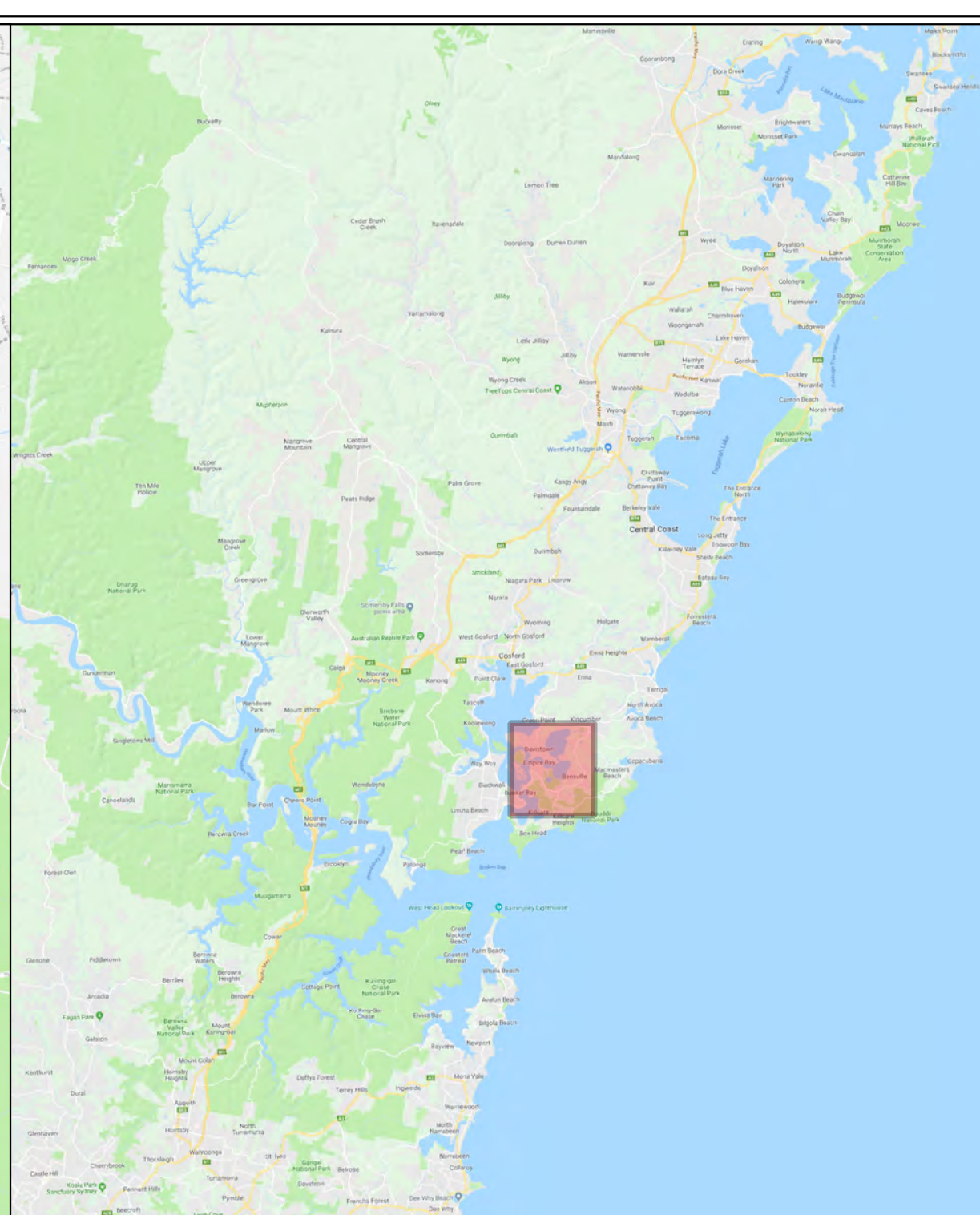
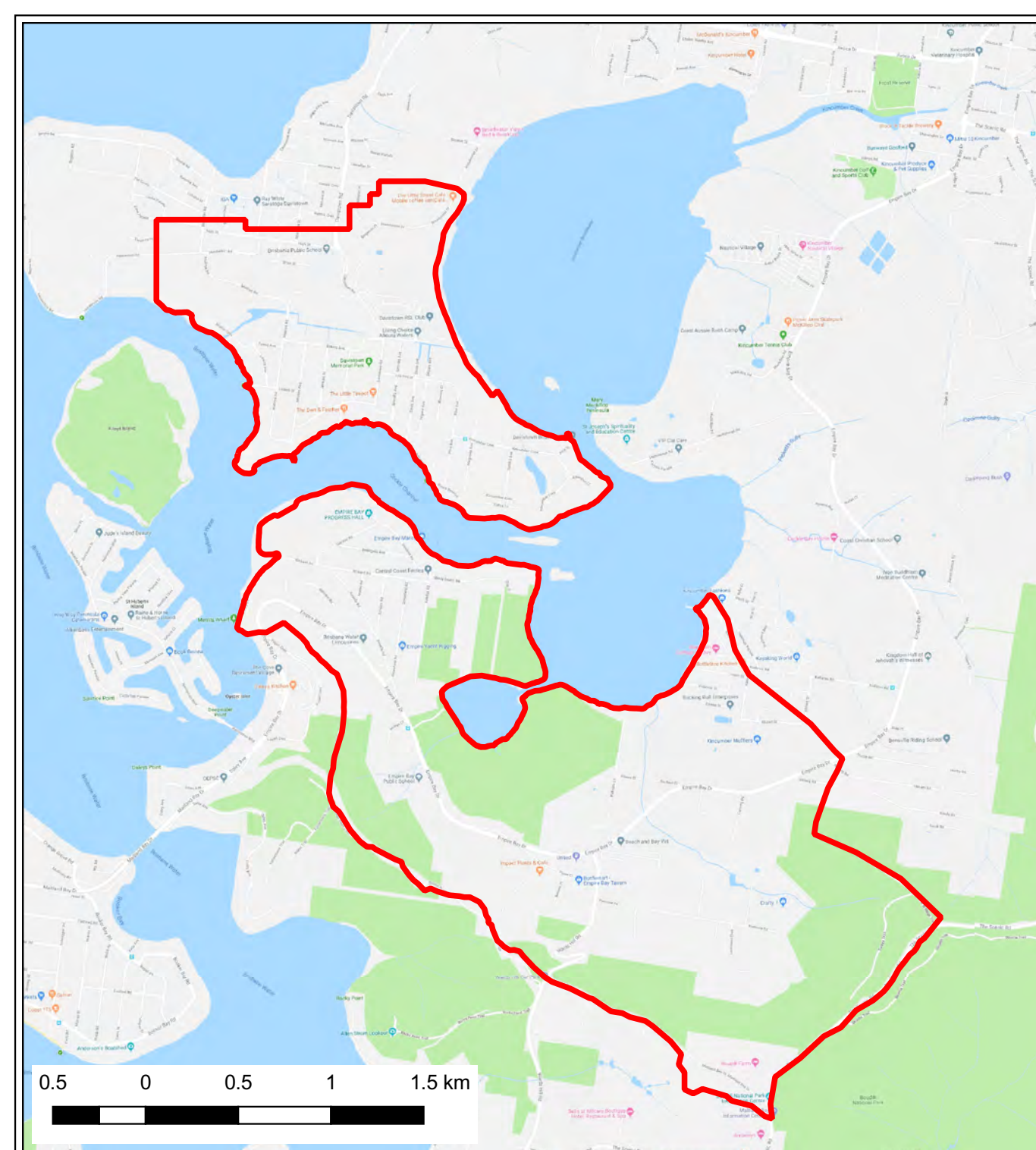
### Legend

 Study Area

5 0 5 10 15 km



Scale : 1:400000@A3  
Date : 7 November 2018  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56





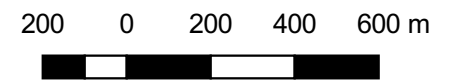


# Map G102

## Catchment Area Features

### Legend

-  Study Area
-  General Surface Flow



Scale : 1:18000@A3  
Date : 15 January 2019  
Revision : 2  
Created by : JRF  
Coordinate System : MGA 56







### Map G103

### Site Inspection Photo Locations

#### Legend

-  Study Area
-  Photo Locations

200 0 200 400 600 m



Scale : 1:18000@A3  
Date : 7 November 2018  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56





# Map G104

## Floor Level Survey

### Legend

- Study Area
- Brisbane Water FRMS (Cardno, 2015) Property Survey
- 2019 Property Survey
- Properties for which ground levels and floor levels were estimated

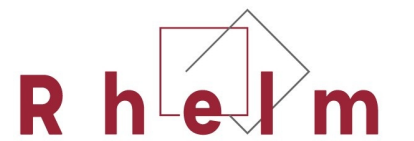
### 1% AEP Flood Depth (m)

- 0.15 - 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.2
- > 1.2

200 0 200 400 600 m



Scale : 1:18000@A3  
Date : 08 October 2020  
Revision : D  
Created by : JS  
Coordinate System : MGA 56















### Map G105

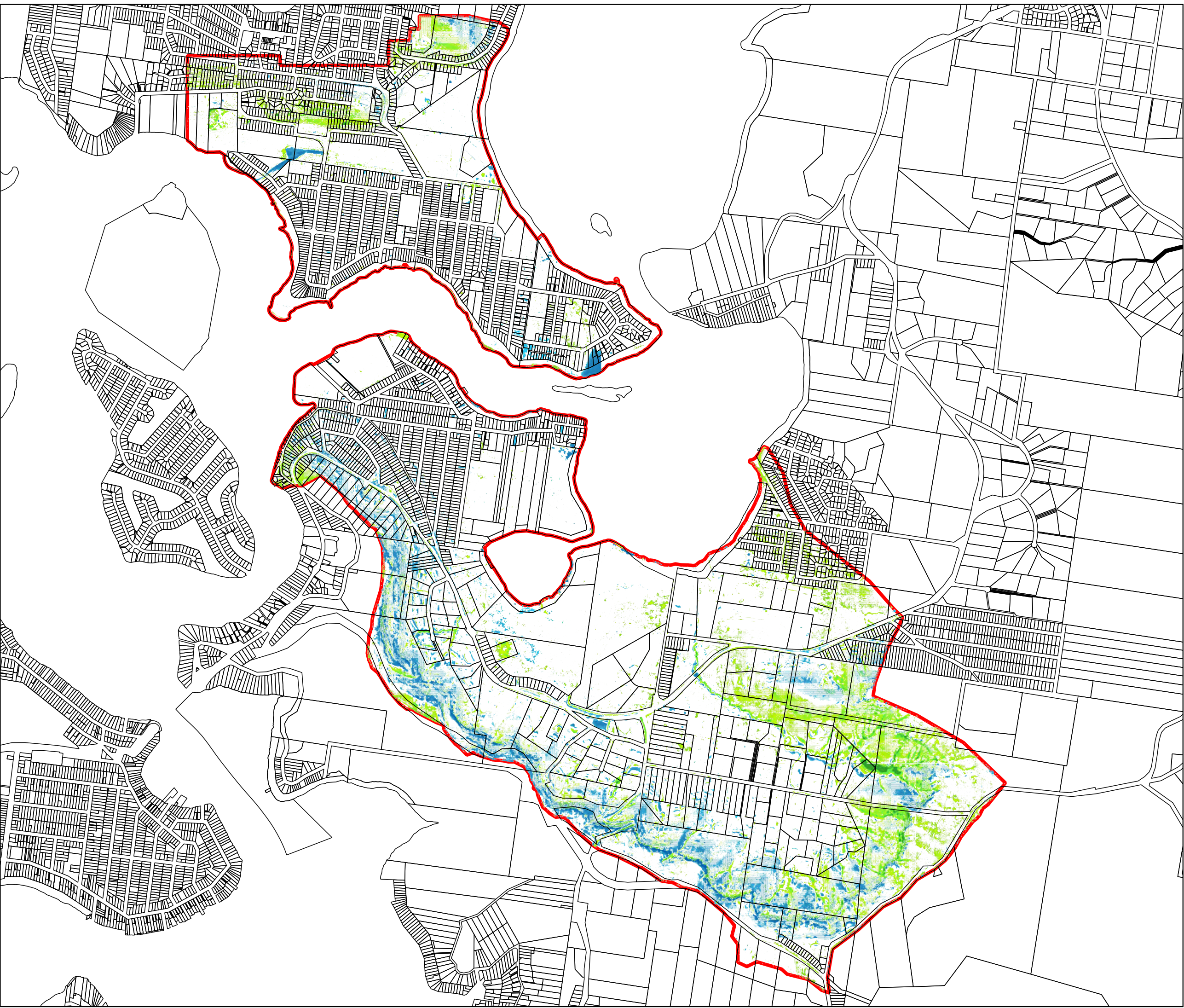
### Ground Surface Comparison

#### Legend

-  Study Area
- 2013 LiDAR less 2010 DEM
  -  <= -2.0
  -  -2.0 - -1.0
  -  -1.0 - -0.5
  -  -0.5 - -0.3
  -  -0.3 - 0.3
  -  0.3 - 0.5
  -  0.5 - 1.0
  -  1.0 - 2.0
  -  > 2.0



Scale : 1:18000@A3  
Date : 7 November 2018  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56











### Map G106

### SOBEK Model 1D Network

#### Legend

-  Study Area
-  SOBEK 1D Channels
-  SOBEK 1D Pipes
-  Channels Removed From 1D Domain in Revised Model



Scale : 1:18000@A3  
Date : 12 November 2018  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56















### Map G110

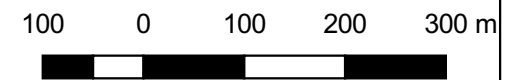
### Tuflow vs Sobek 1% AEP Depth Davistown

#### Legend

 Study Area

Tuflow less Sobek Model  
Depth Difference (m)

-  <= -0.5
-  -0.5 - -0.3
-  -0.3 - -0.2
-  -0.2 - -0.1
-  -0.1 - 0.1
-  0.1 - 0.2
-  0.2 - 0.3
-  0.3 - 0.5
-  > 0.5



Scale : 1:7500@A3  
Date : 17 January 2019  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56














### Map G111

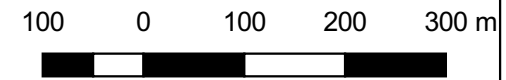
## Tuflow vs Sobek 20% AEP Depth Davistown

#### Legend

 Study Area

Tuflow less Sobek Model  
Depth Difference (m)

-  <= -0.5
-  -0.5 - -0.3
-  -0.3 - -0.2
-  -0.2 - -0.1
-  -0.1 - 0.1
-  0.1 - 0.2
-  0.2 - 0.3
-  0.3 - 0.5
-  > 0.5



Scale : 1:7500@A3  
Date : 17 January 2019  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56














### Map G112

## Tuflow vs Sobek 1% AEP Depth Empire Bay

### Legend

 Study Area

Tuflow less Sobek Model  
Depth Difference (m)

-  <= -0.5
-  -0.5 - -0.3
-  -0.3 - -0.2
-  -0.2 - -0.1
-  -0.1 - 0.1
-  0.1 - 0.2
-  0.2 - 0.3
-  0.3 - 0.5
-  > 0.5

100 0 100 200 300 400 500 m



Scale : 1:12000@A3  
Date : 17 January 2019  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56














### Map G113

## Tuflow vs Sobek 20% AEP Depth Empire Bay

#### Legend

 Study Area

Tuflow less Sobek Model  
Depth Difference (m)

-  <= -0.5
-  -0.5 - -0.3
-  -0.3 - -0.2
-  -0.2 - -0.1
-  -0.1 - 0.1
-  0.1 - 0.2
-  0.2 - 0.3
-  0.3 - 0.5
-  > 0.5

100 0 100 200 300 400 500 m



Scale : 1:12000@A3  
Date : 17 January 2019  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56



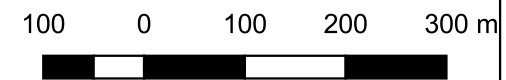


### Map G114

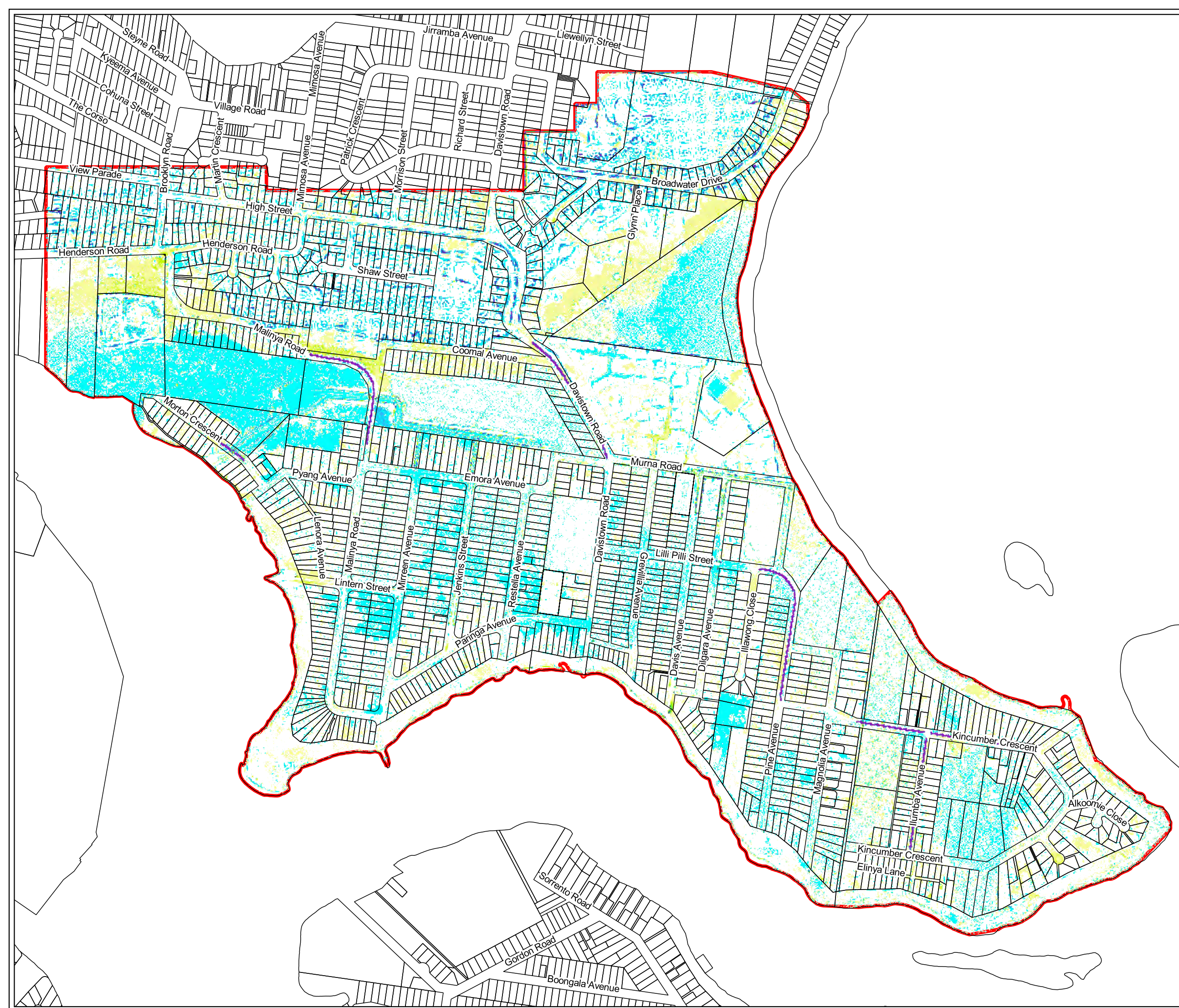
## Flood Depth Difference ARR2019 less ARR1987 1% AEP, 2 Hour Event Davistown

#### Legend

- Study Area
- Depth Difference (m)
- <= -0.2
- 0.2 - -0.1
- 0.1 - -0.05
- 0.05 - -0.01
- 0.01 - 0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- > 0.2



Scale : 1:7500@A3  
Date : 13 February 2019  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56






### Map G115


### New LiDAR less Flood Study DEM 1% AEP, 1 Hour Empire Bay/Bensville


#### Legend


 Study Area


Depth Difference (m)


 <= -1


 -1 - -0.5

 -0.5 - -0.2

 -0.2 - -0.1

 0.1 - 0.2

 0.2 - 0.5

 0.5 - 1

 > 1

100 0 100 200 300 400 500 m



Scale : 1:12000@A3

Date : 12 March 2019

Revision : 1

Created by : JRF

Coordinate System : MGA 56





### Map G116

## Pomona Road Survey and Flood Wall Impact Assessment 1% AEP Depth Empire Bay

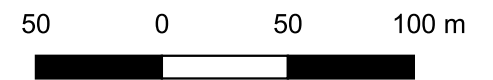
### Legend

Survey Extent

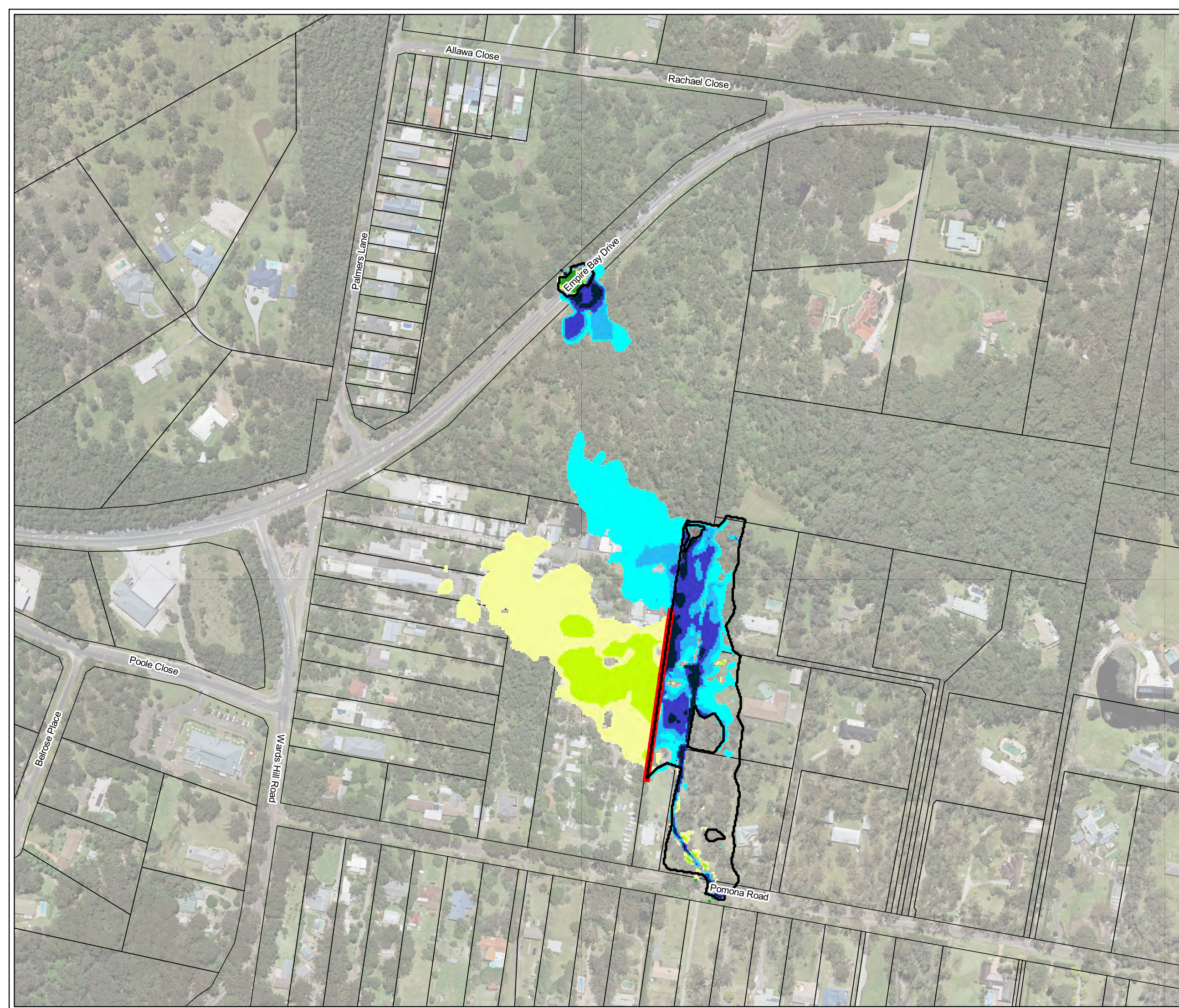
Wall Extent

Survey Impact to Flood Levels  
Depth Difference (m)

- <math>\leq -0.5</math>
- 0.5 - -0.3
- 0.3 - -0.2
- 0.2 - -0.1
- 0.1 - 0.2
- 0.2 - 0.3
- 0.3 - 0.5
- > 0.5



Scale : 1:2000@A3  
Date : December 2019  
Revision : 1  
Created by : JRF  
Coordinate System : MGA 56







### Map G120







### Existing Hazard

### Davistown

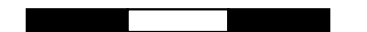
### 1% AEP

 Model Area

#### Hazard

-  H1 - Generally safe for vehicles, people & buildings
-  H2 - Unsafe for small vehicles
-  H3 - Unsafe for vehicles, children and the elderly
-  H4 - Unsafe for vehicles and people
-  H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
-  H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

0 100 200 300 m



Scale : 1:7500@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56





## Map G121







### Existing Hazard

### Davistown

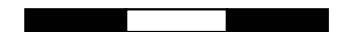
### PMF

 Model Area

#### Hazard

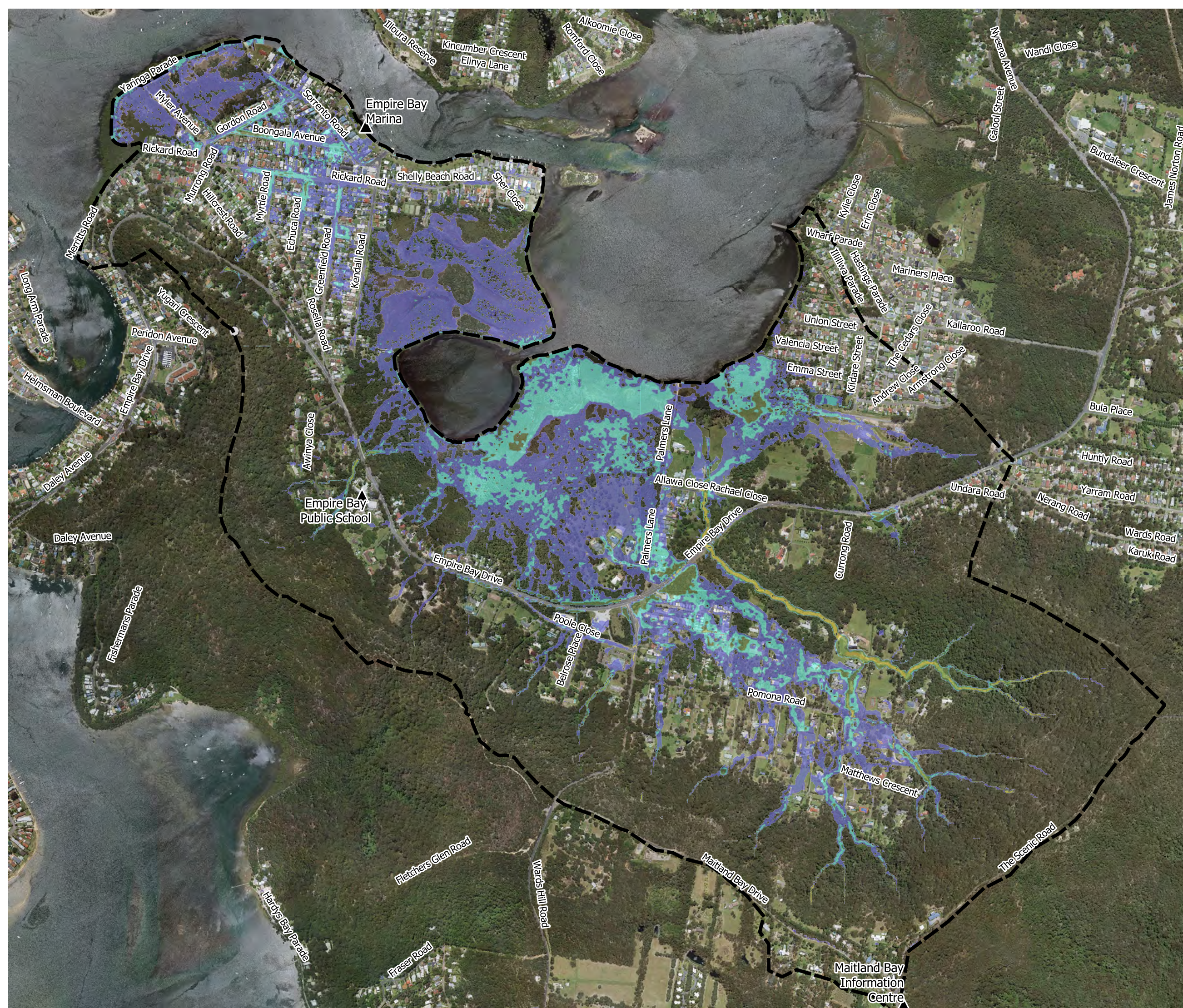
-  H1 - Generally safe for vehicles, people & buildings
-  H2 - Unsafe for small vehicles
-  H3 - Unsafe for vehicles, children and the elderly
-  H4 - Unsafe for vehicles and people
-  H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
-  H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

0 100 200 300 m



Scale : 1:7500@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56





**Map G122**

**Existing Hazard**

**Empire Bay/Bensville**

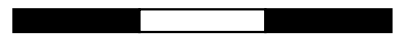
**1% AEP**

Model Area

**Hazard**

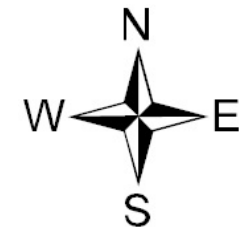
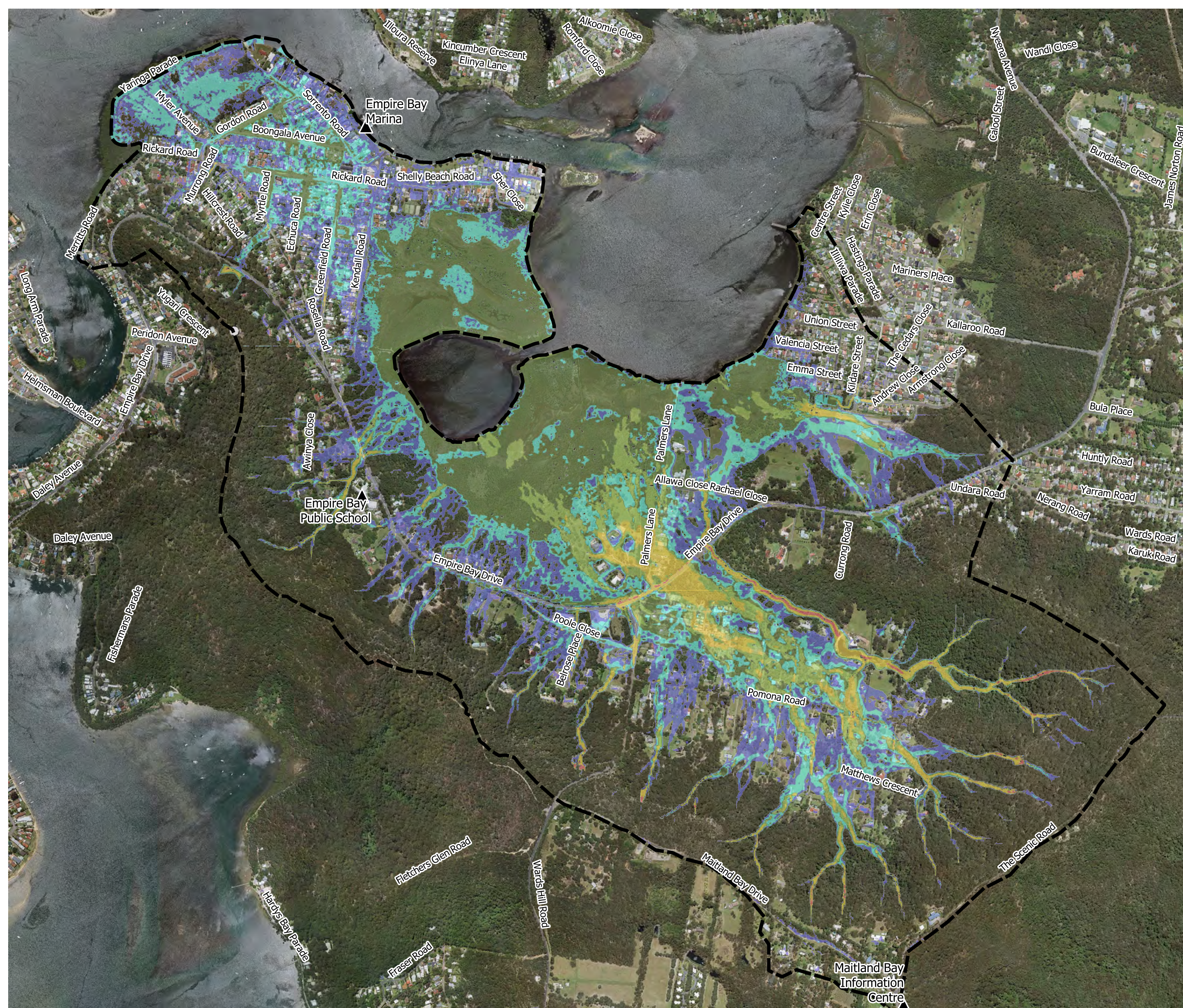
- H1 - Generally safe for vehicles, people & buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for vehicles and people
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

0 200 400 600 m



Scale : 1:12000@A3  
 Date : December 2019  
 Revision : A  
 Created by : JS  
 Coordinate System : MGA 56





**Map G123**

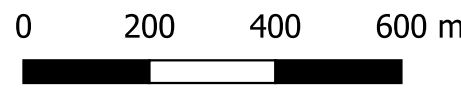
**Existing Hazard**

**Empire Bay/Bensville**

**PMF**

Model Area

- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure



Scale : 1:12000@A3  
 Date : December 2019  
 Revision : A  
 Created by : JS  
 Coordinate System : MGA 56





### Map G130

## Flood Emergency Response Classification

### Davistown

### 5% AEP

#### Legend

Model Area

Cadastre

#### Classification

Not Flooded, Indirect Consequence

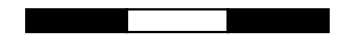
Flooded Rising Road

Flooded Overland Escape

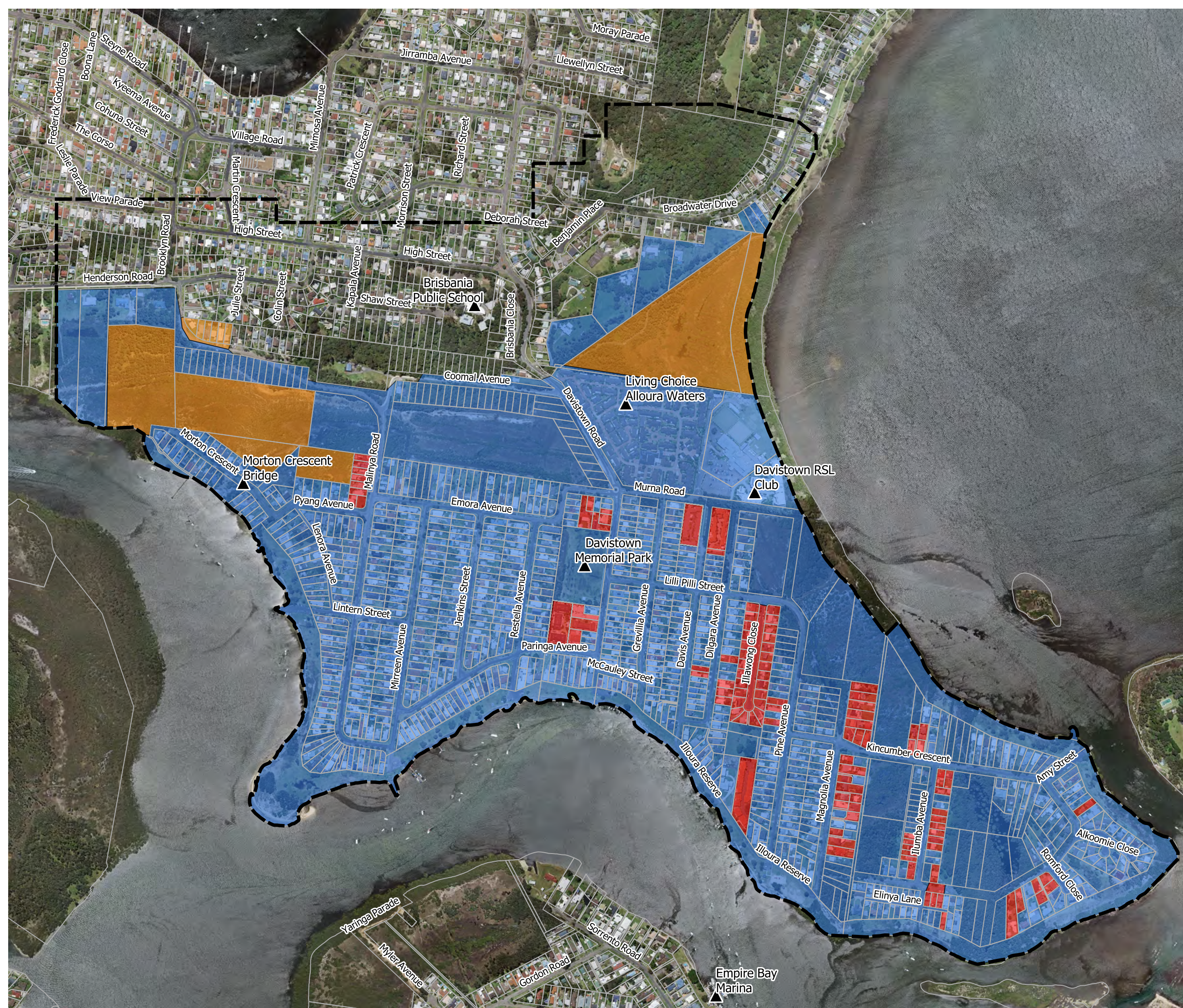
Flooded, Isolated, Elevated

Flooded, Isolated, Submerged

0 100 200 300 m



Scale : 1:7500@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56





### Map G131

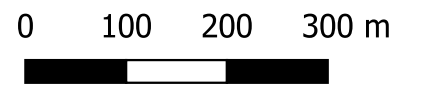
## Flood Emergency Response Classification

### Davistown

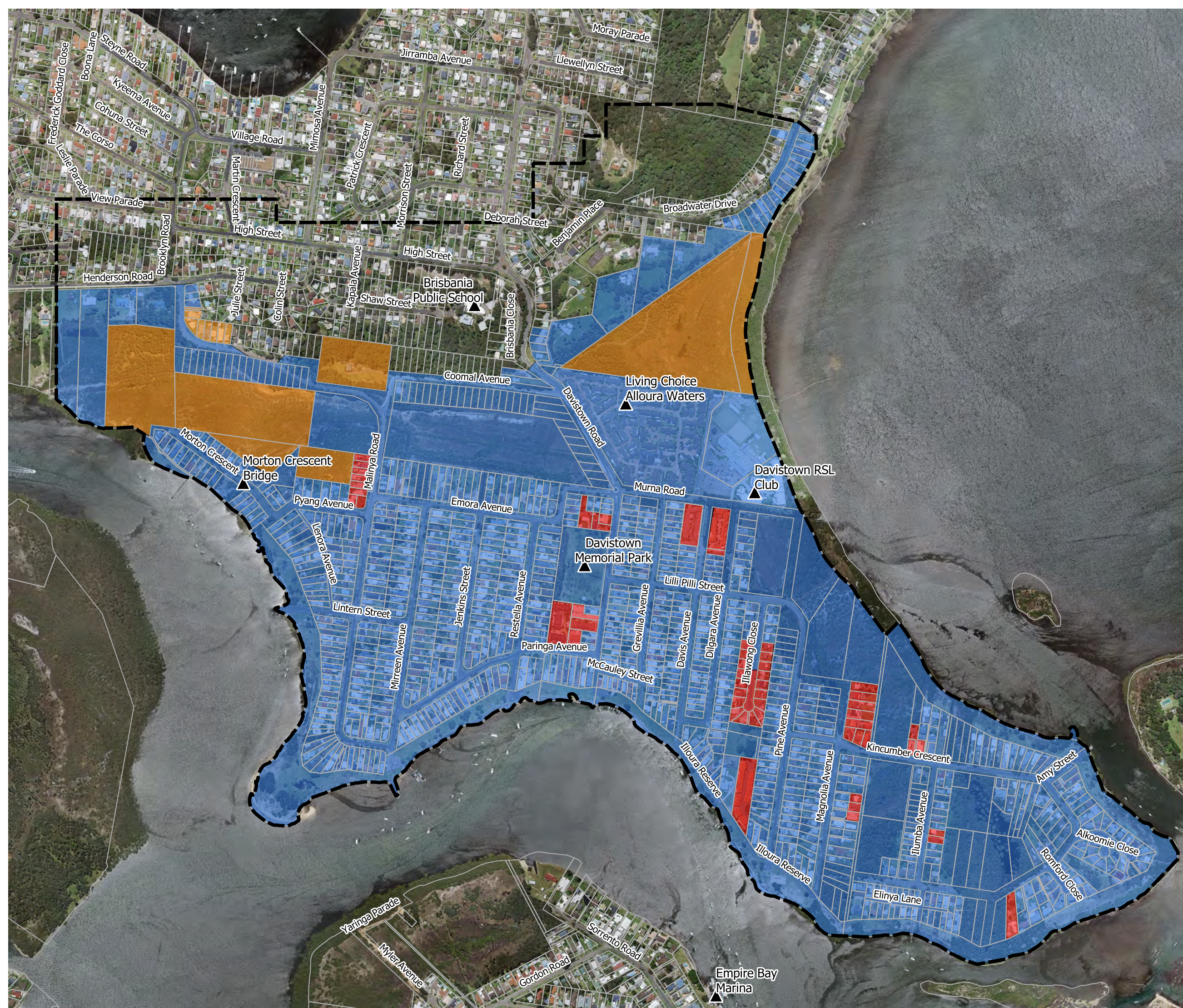
1% AEP

### Legend

- Model Area
- Cadastre
- Classification**
- Not Flooded, Indirect Consequence
- Flooded Rising Road
- Flooded Overland Escape
- Flooded, Isolated, Elevated
- Flooded, Isolated, Submerged



Scale : 1:7500@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56





### Map G132

## Flood Emergency Response Classification

### Davistown

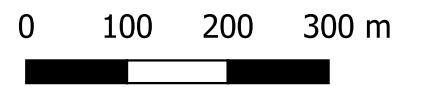
### PMF

#### Legend

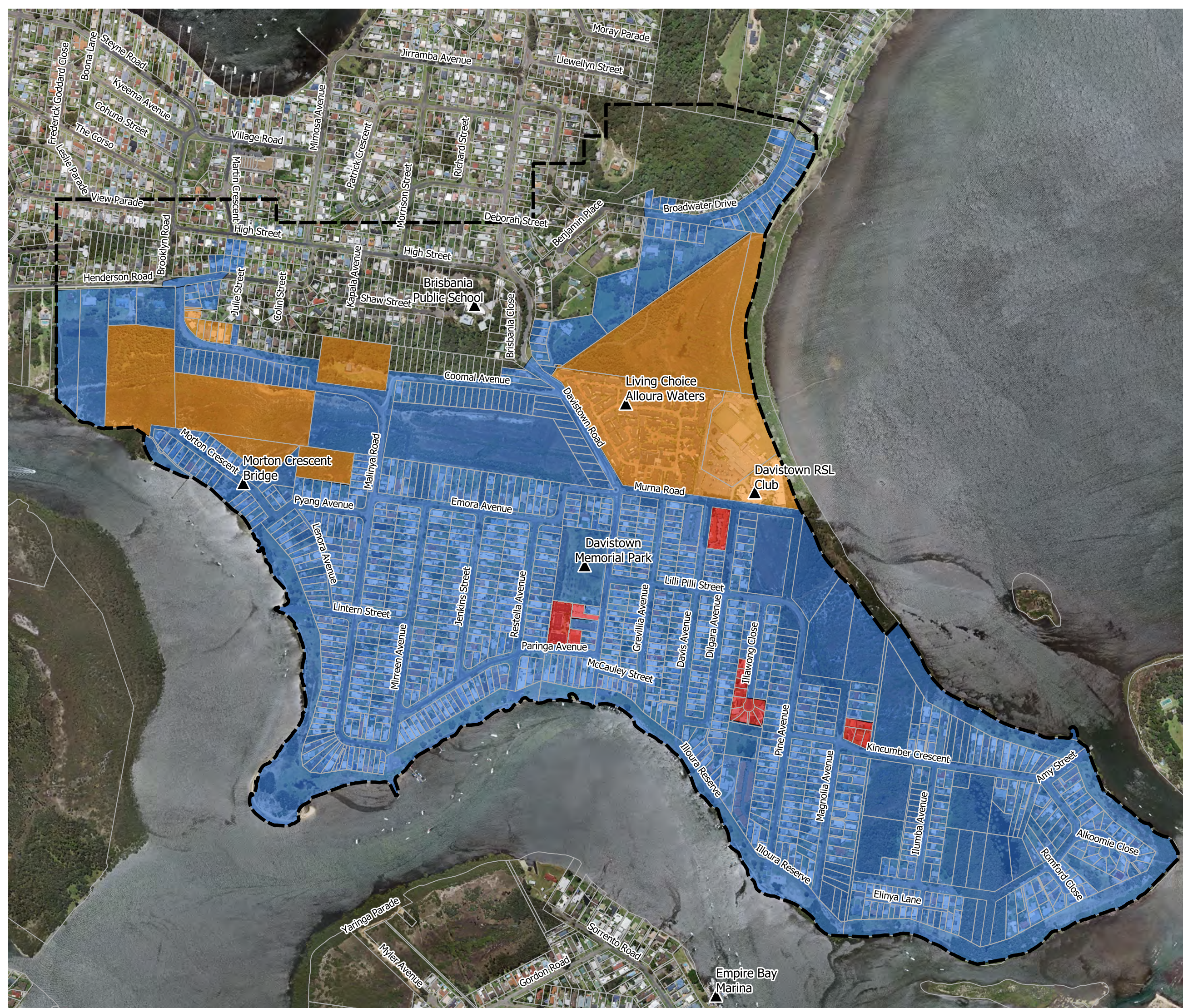
- Model Area
- Cadastre

#### Classification

- Not Flooded, Indirect Consequence
- Flooded Rising Road
- Flooded Overland Escape
- Flooded, Isolated, Elevated
- Flooded, Isolated, Submerged



Scale : 1:7500@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56





### Map G134

## Flood Emergency Response Classification

### Empire Bay/Bensville

5% AEP

#### Legend

Model Area

Cadastre

#### Classification

Not Flooded, Indirect Consequence

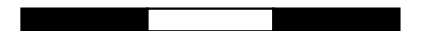
Flooded Rising Road

Flooded Overland Escape

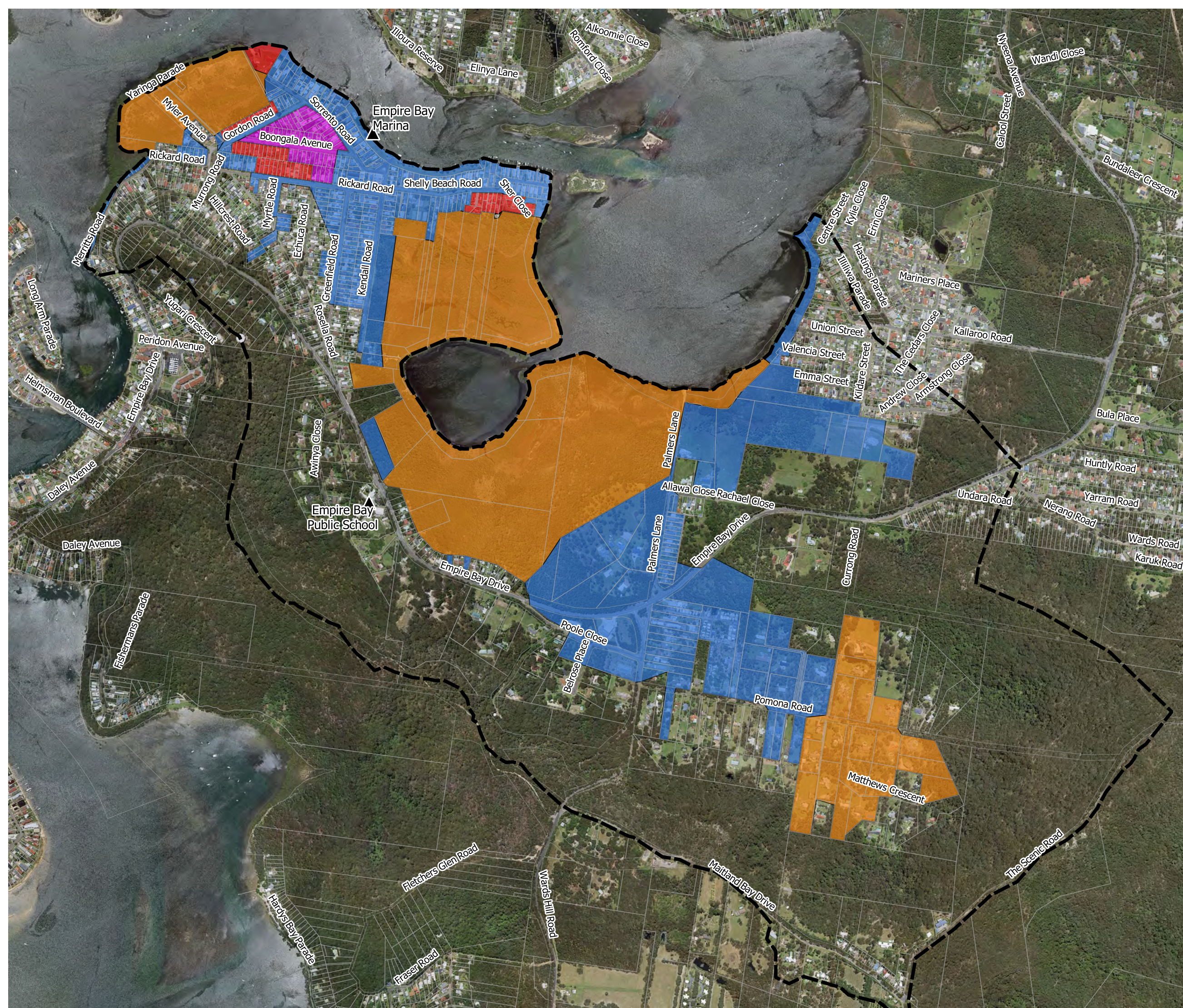
Flooded, Isolated, Elevated

Flooded, Isolated, Submerged

0 200 400 600 m



Scale : 1:12000@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56







### Map G134

## Flood Emergency Response Classification

### Empire Bay/Bensville

1% AEP

#### Legend

Model Area

Cadastre

#### Classification

Not Flooded, Indirect Consequence

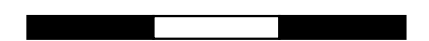
Flooded Rising Road

Flooded Overland Escape

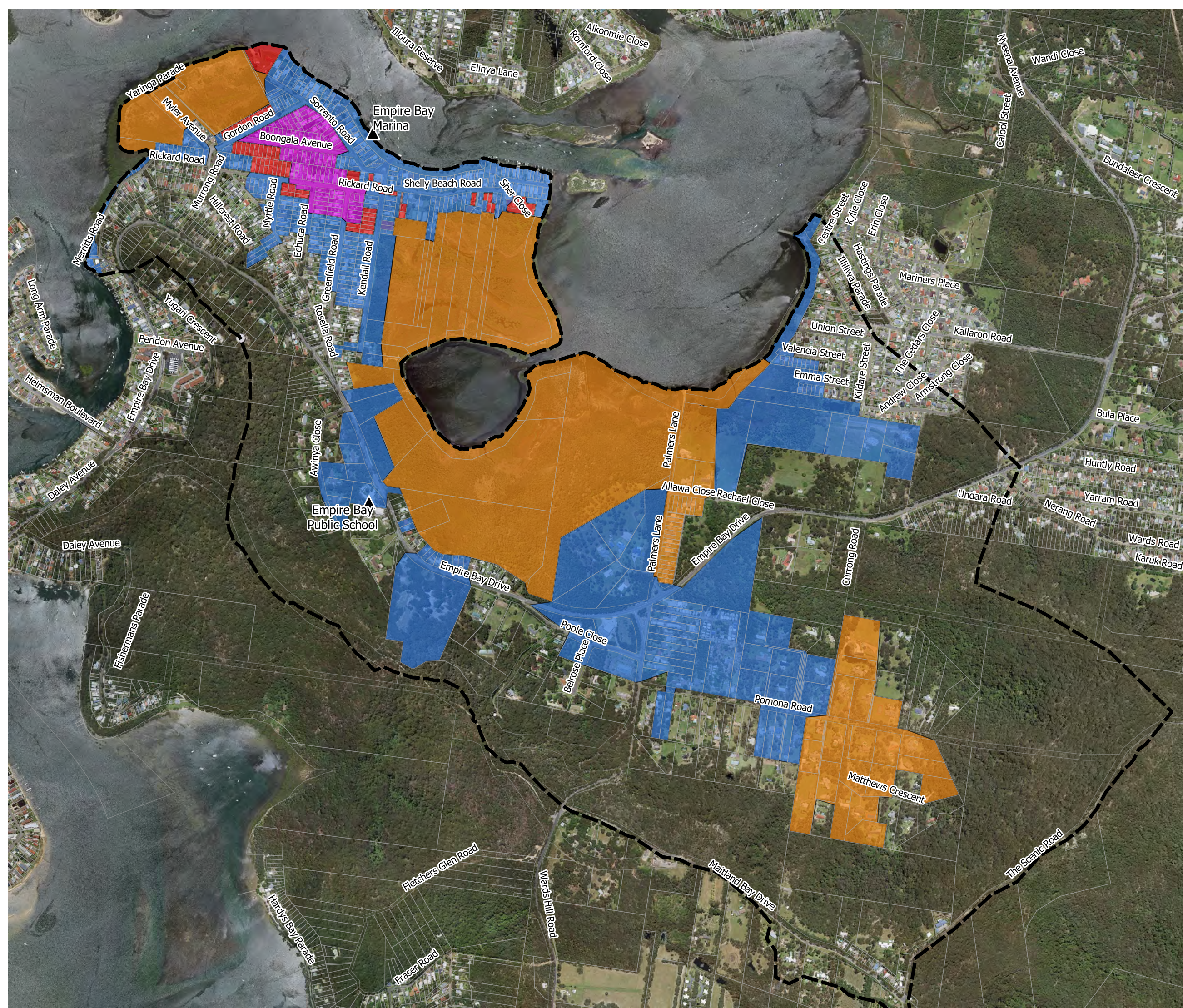
Flooded, Isolated, Elevated

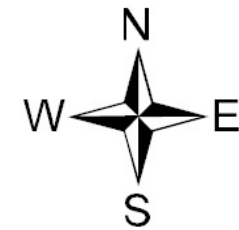
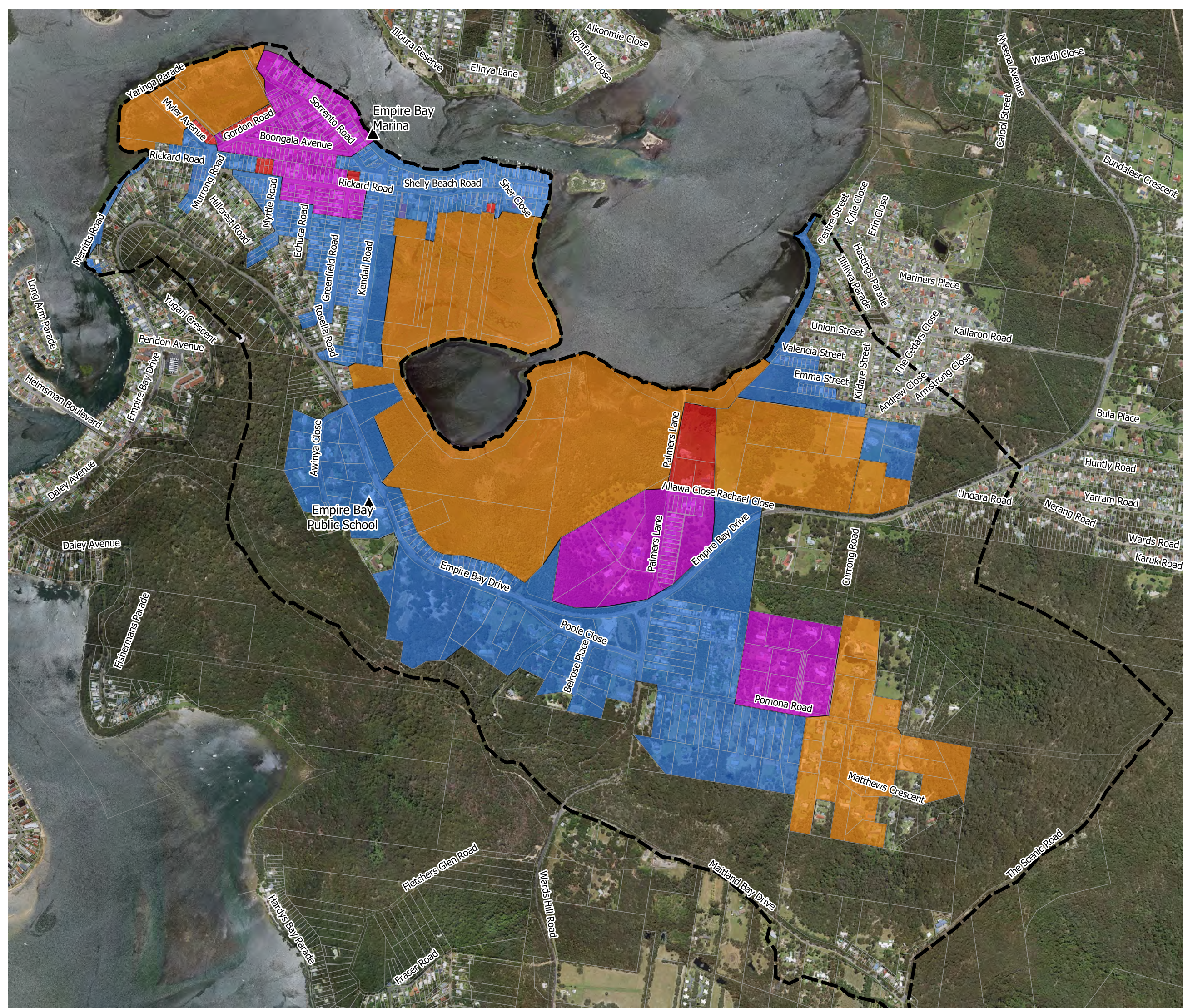
Flooded, Isolated, Submerged

0 200 400 600 m



Scale : 1:12000@A3  
Date : December 2019  
Revision : A  
Created by : JS  
Coordinate System : MGA 56












**Map G135**

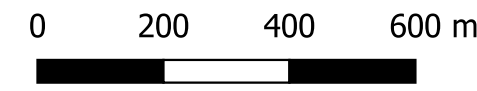
**Flood Emergency Response Classification**

**Empire Bay/Bensville**

**PMF**

**Legend**

-  Model Area
-  Cadastre
- Classification**
-  Not Flooded, Indirect Consequence
-  Flooded Rising Road
-  Flooded Overland Escape
-  Flooded, Isolated, Elevated
-  Flooded, Isolated, Submerged



Scale : 1:12000@A3  
 Date : December 2019  
 Revision : A  
 Created by : JS  
 Coordinate System : MGA 56

