

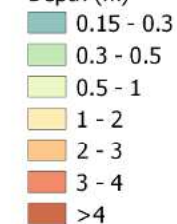


G801-g-1 Sunshine Bay PMF Depth

Legend

Study Area

Depth (m)



0 160 320 480 m

1:10,000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





G801-g-2 Sunshine Bay 1% AEP Depth

Legend

Study Areas

Depth (m)

- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >4



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



G801-g-3 Sunshine Bay 10% AEP Depth

Legend

Study Areas

Depth (m)

- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >4



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



G802-g-1 Sunshine Bay PMF Velocity

Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





G802-g-2 Sunshine Bay 1% AEP Velocity

Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

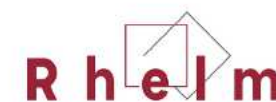
> 4



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G802-g-3 Sunshine Bay 10% AEP Velocity

Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G803-g-1 Sunshine Bay PMF Hazard



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56



Legend

Study Areas

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





**G803-g-2
Sunshine Bay
1% AEP Hazard**



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56



- Legend**
- Study Areas
- 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





G803-g-3
Sunshine Bay
10% AEP Hazard



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56



Legend

Study Areas

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





G804-g-1 Sunshine Bay PMF Flood Function

Legend

- Study Areas
- Flood Function
 - Floodway
 - Storage
 - Fringe



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





G804-g-2 Sunshine Bay 1% AEP Flood Function

Legend

- Study Areas
- Flood Function
 - Floodway
 - Storage
 - Fringe



0 160 320 480 m


1:10000

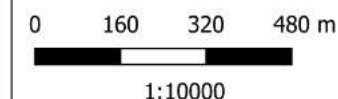
Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



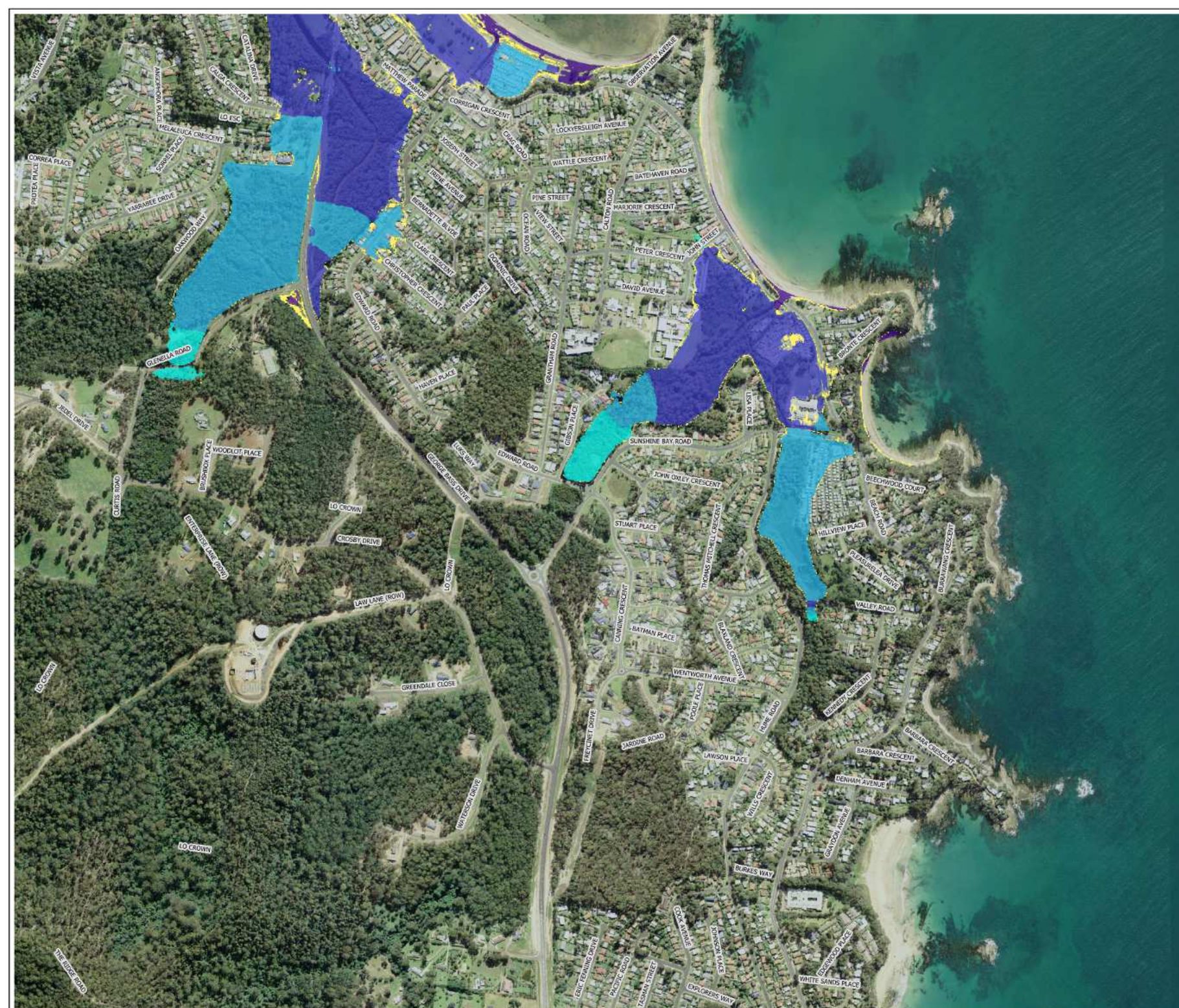


Study Area
Water Level Difference (m)
 Was dry, now wet



Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





**G805-g-2
Sunshine Bay
5% AEP 0.35m SLR
Impacts
(2050 Scenario)**

Legend

Study Areas

Water Level Difference (m)

<= 0.01

0.01 - 0.05

0.05 - 0.1

0.1 - 0.2

0.2 - 0.4

0.4 - 0.6

> 0.6

Was dry, now wet



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G806-g Sunshine Bay 0.72m SLR Impacts (2100 Scenario)

Legend

Study Area

Water Level Difference (m)

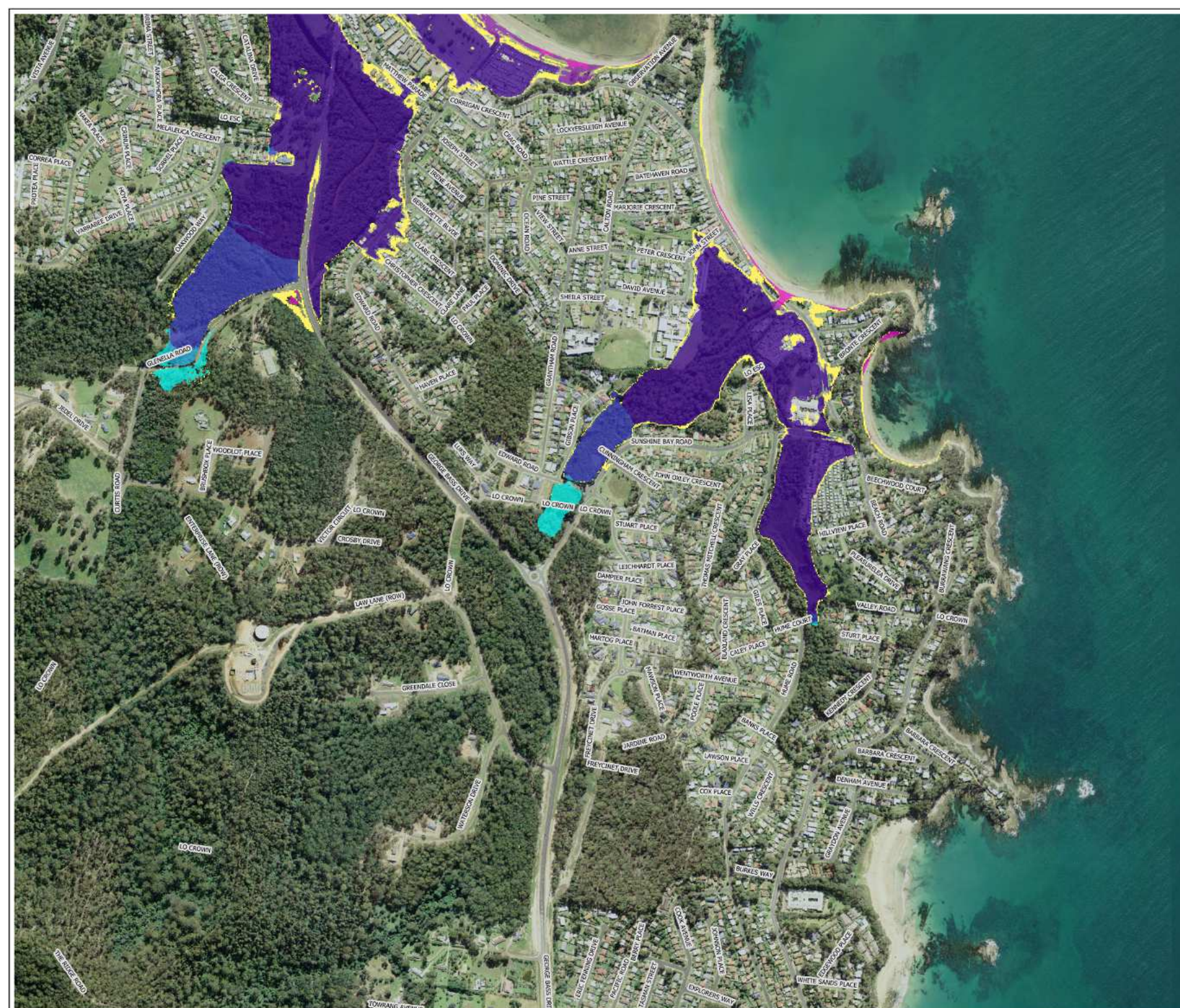
- ≤ 0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- > 0.6
- Was dry, now wet



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56







**G807-g-2
Sunshine Bay
PMF Critical Duration**


Legend


 Study Areas

Critical Duration

 60 minute

 90 minute

 120 minute

 180 minute



0 160 320 480 m



1:10000


Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





**G807-g-2
Sunshine Bay
1% AEP Critical
Duration**


Legend


 Study Areas

Critical Duration

 30 minute

 60 minute

 120 minute

 180 minute



0 160 320 480 m



1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



**G807-g-2
Sunshine Bay
10% AEP Critical
Duration**

Legend

Study Areas

Critical Duration

30 minute

90 minute

120 minute

270 minute



0 160 320 480 m



1:10000





Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



G807-g Sunshine Bay Tidal Inundation

Legend

-  Study Areas
-  Existing Tidal Extent
-  0.35m SLR Tidal Extent
-  0.72m SLR Tidal Extent



0 160 320 480 m



1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G901-g Sunshine Bay Flood Planning Area

Legend

- Study Areas
- Existing 1% AEP +0.5m
- 0.35m SLR 1% AEP +0.5m
- 0.72m SLR 1% AEP +0.5m
- PMF Extent



0 160 320 480 m



1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





Legend

 Study Areas

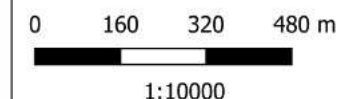
Classifications

 Flooded Rising Road

 Flooded Overland Escape

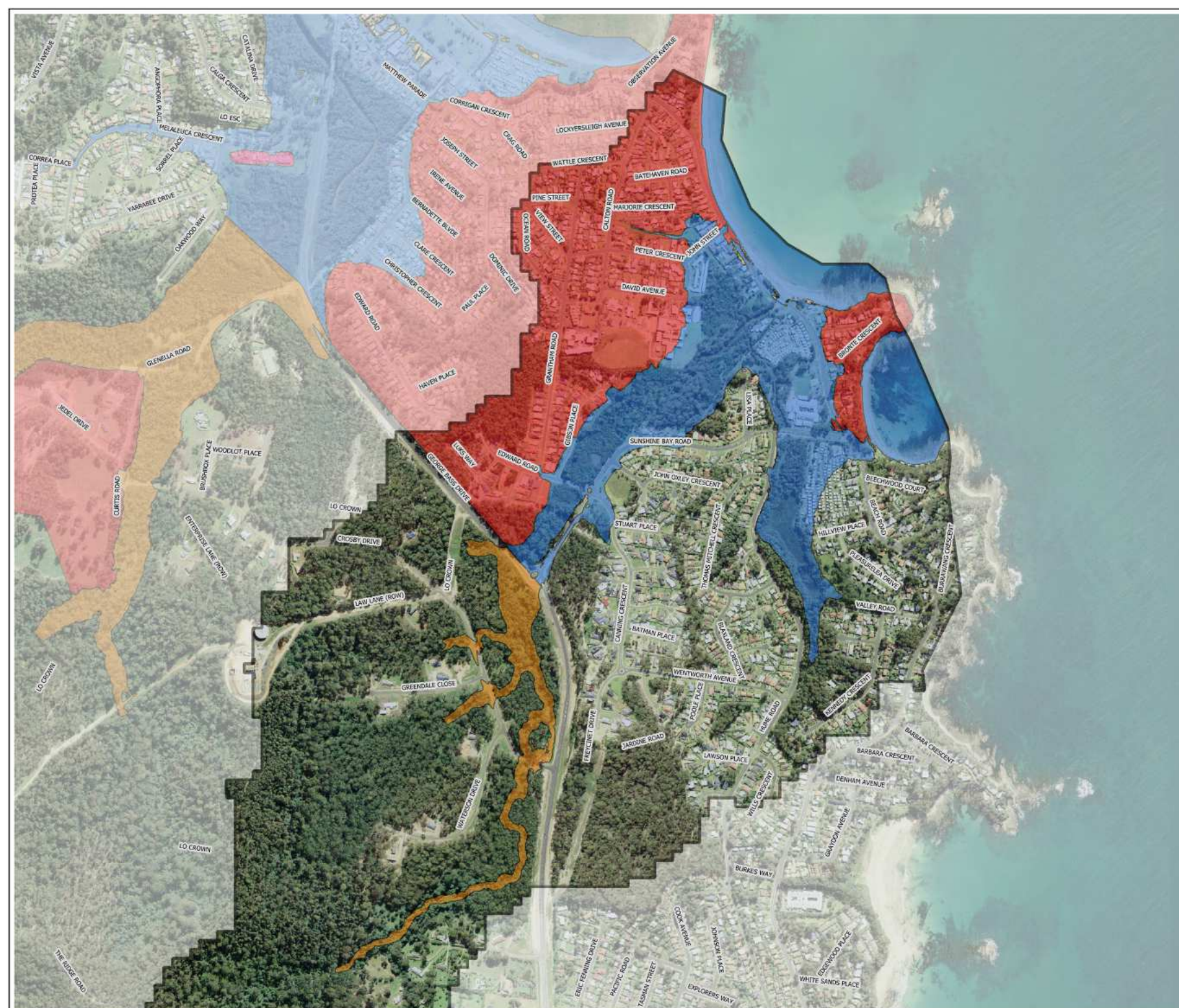
 Isolated, Elevated

 Isolated, Submerged



Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





G902-g-2 Sunshine Bay 1% AEP Flood Emergency Response Classifications

Legend

Study Areas

Classifications

Flooded Rising Road

Flooded Overland Escape

Isolated, Elevated

Isolated, Submerged



0 160 320 480 m



1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56



ID	Location	20% AEP	10% AEP	1% AEP	PMF
SB-1	Beach Road	0	0	0.35	1.79
SB-2	Beach Road	0	0	0	0.75
SB-3	Beach Road	0	0	0	0.93
SB-4	Sunshine Bay Road	0	0	0.73	2.05
SB-5	Sunshine Bay Road (west)	0	0	0	1.51
SB-6	Edward Road	0	0	0.16	1.4
SB-7	Canning Crescent	0	0	0.26	1.23
SB-8	George Bass Drive	0	0	0	1.15
SB-10	Crosby Drive	0	0	0.25	0.9
SB-9	Crosby Drive	0	0	0	0.52
SB-11	Crosby Drive	0	0	0	0.21



G903-g Sunshine Bay Road Overtopping

Legend

- Study Areas
- Overtopping Locations
- 1% AEP Depth (m)
 - 0.15 - 0.3
 - 0.3 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - >4



0 160 320 480 m

1:10000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





T002-g Sunshine Bay Pump Station Affection

Legend

- Study Areas
- 10% AEP Extent
- 1% AEP Extent
- PMF Extent

Pump Station Affection

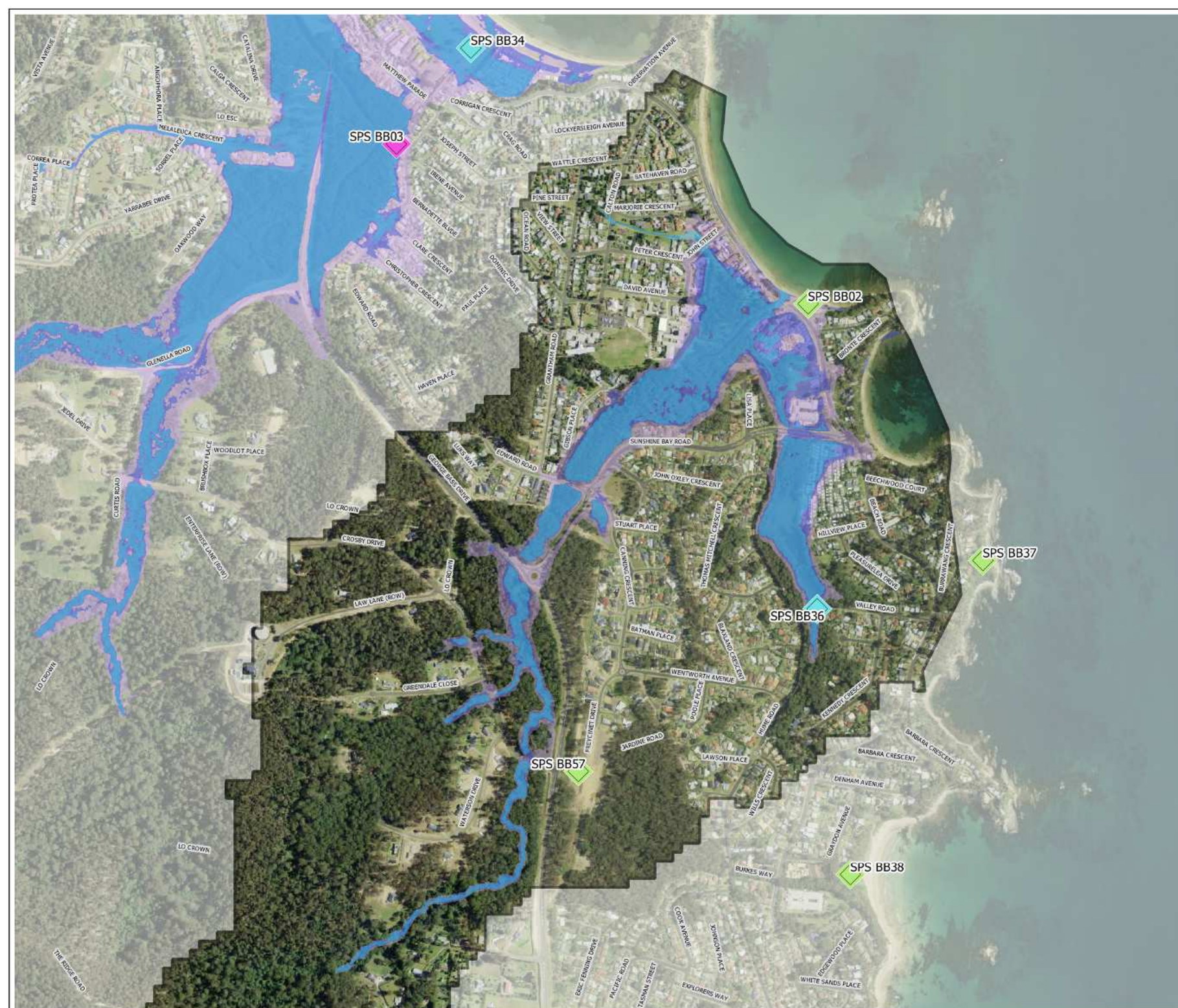
- Flooded in 10% AEP
- Flooded in 1% AEP
- Flooded in PMF
- Flood Free



0 160 320 480 m

1:10,000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G905-g Sunshine Bay Draft Flood Prone Land Control Areas

Legend

- Study Areas
- FPA - Flood Planning Area
- SFC - Special Flood Considerations

Land Use Zones

- | | | | |
|----|-----|-----|-----|
| B1 | E2 | RE1 | SP1 |
| B2 | E4 | RE2 | SP2 |
| B4 | IN1 | RU1 | SP3 |
| B5 | R2 | RU3 | W1 |
| DM | R3 | RU4 | W2 |
| E1 | R5 | RU5 | |



0 160 320 480 m



1:10000

Size : A3
Date : 22 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

