

FIGURE 12
KEY LOCATIONS

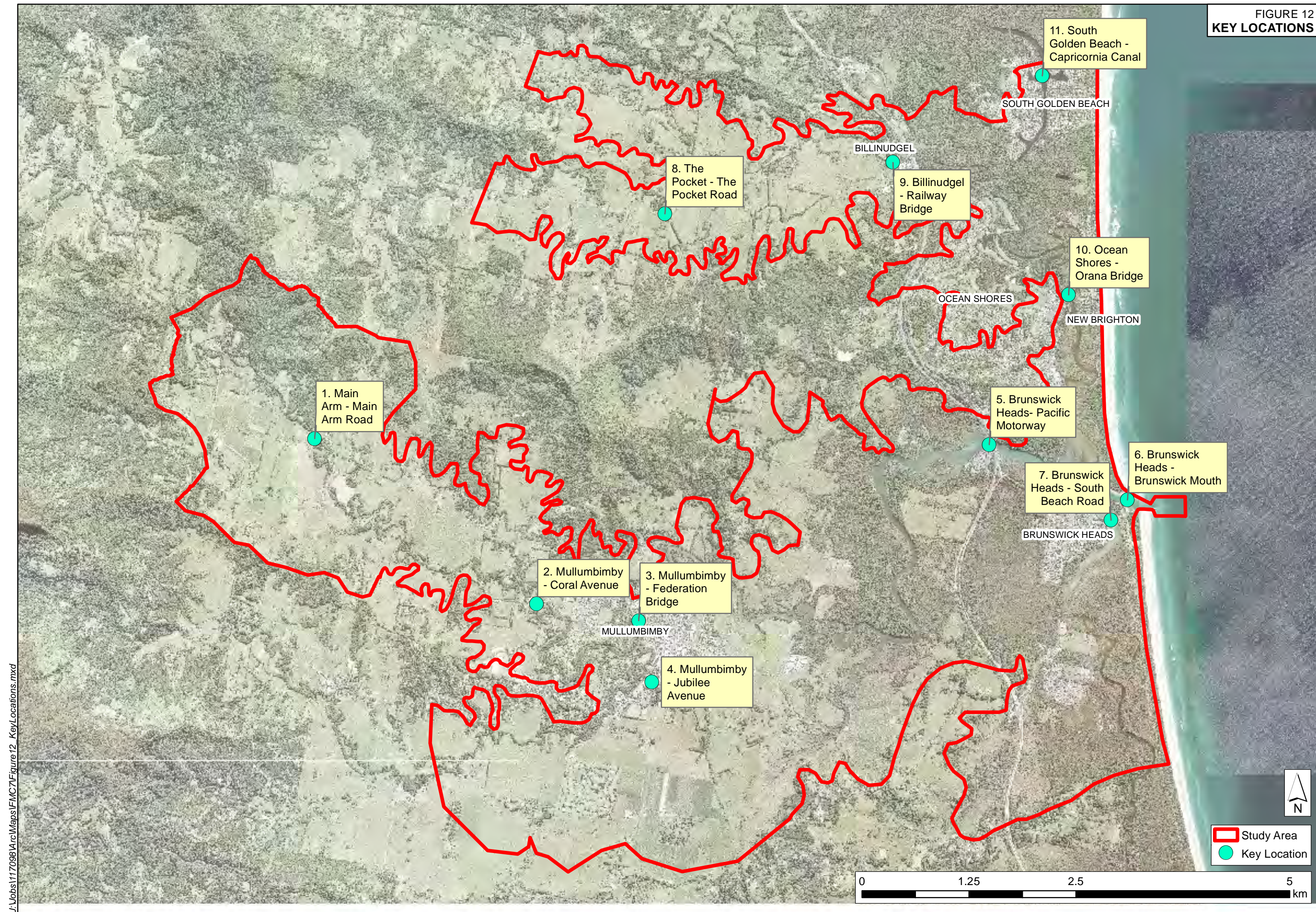


FIGURE 13
FLOOD FUNCTION
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
1% AEP

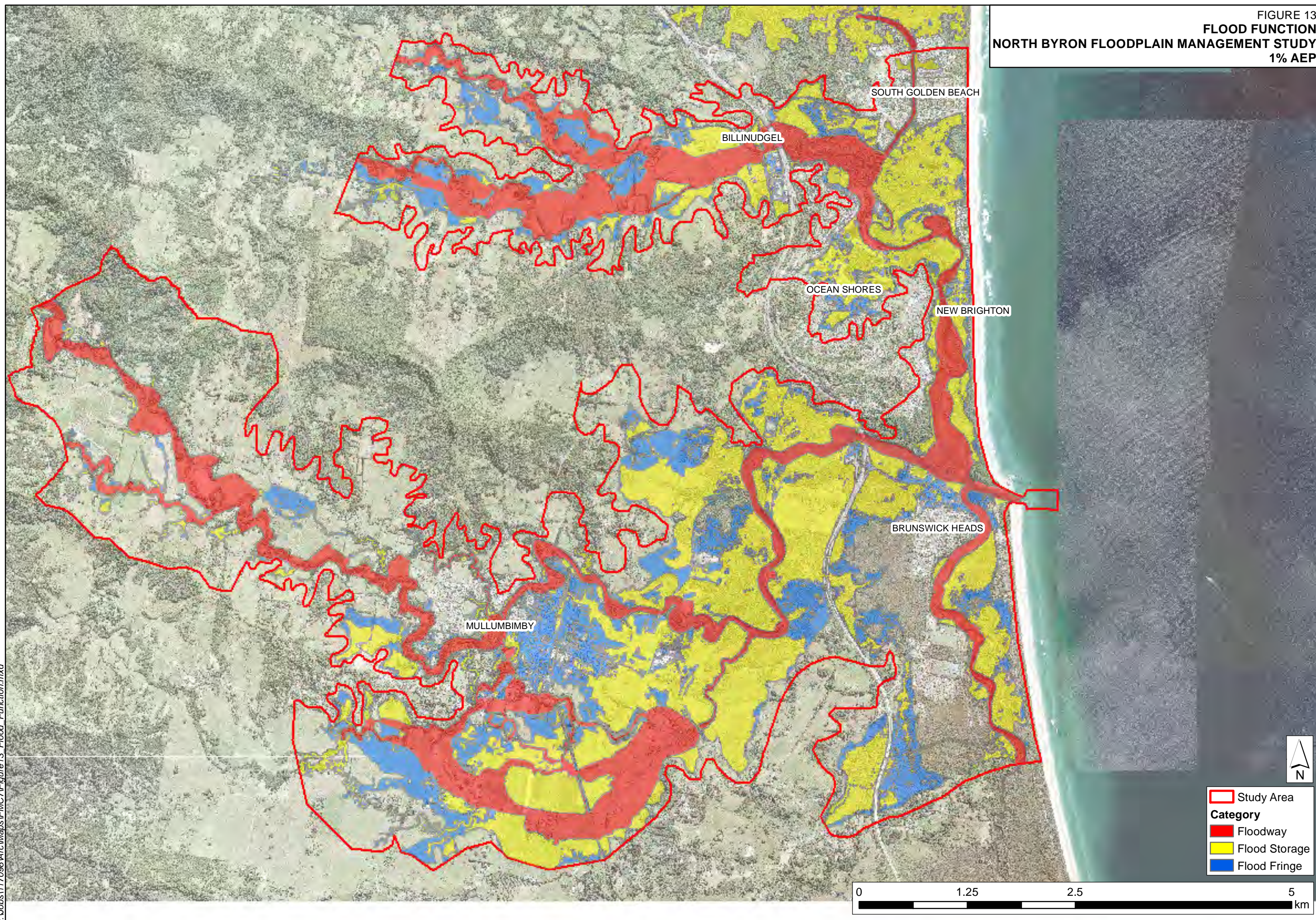
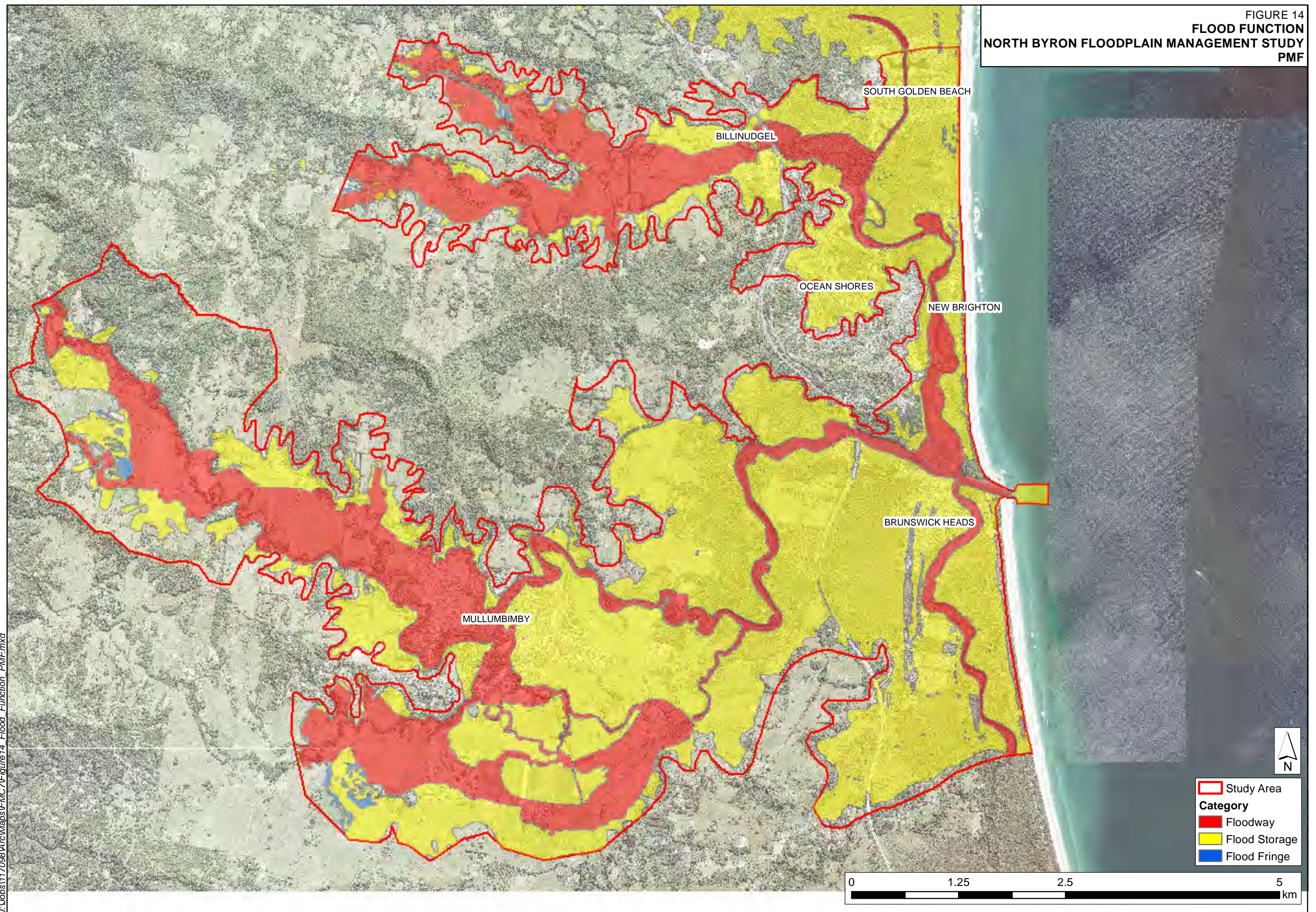
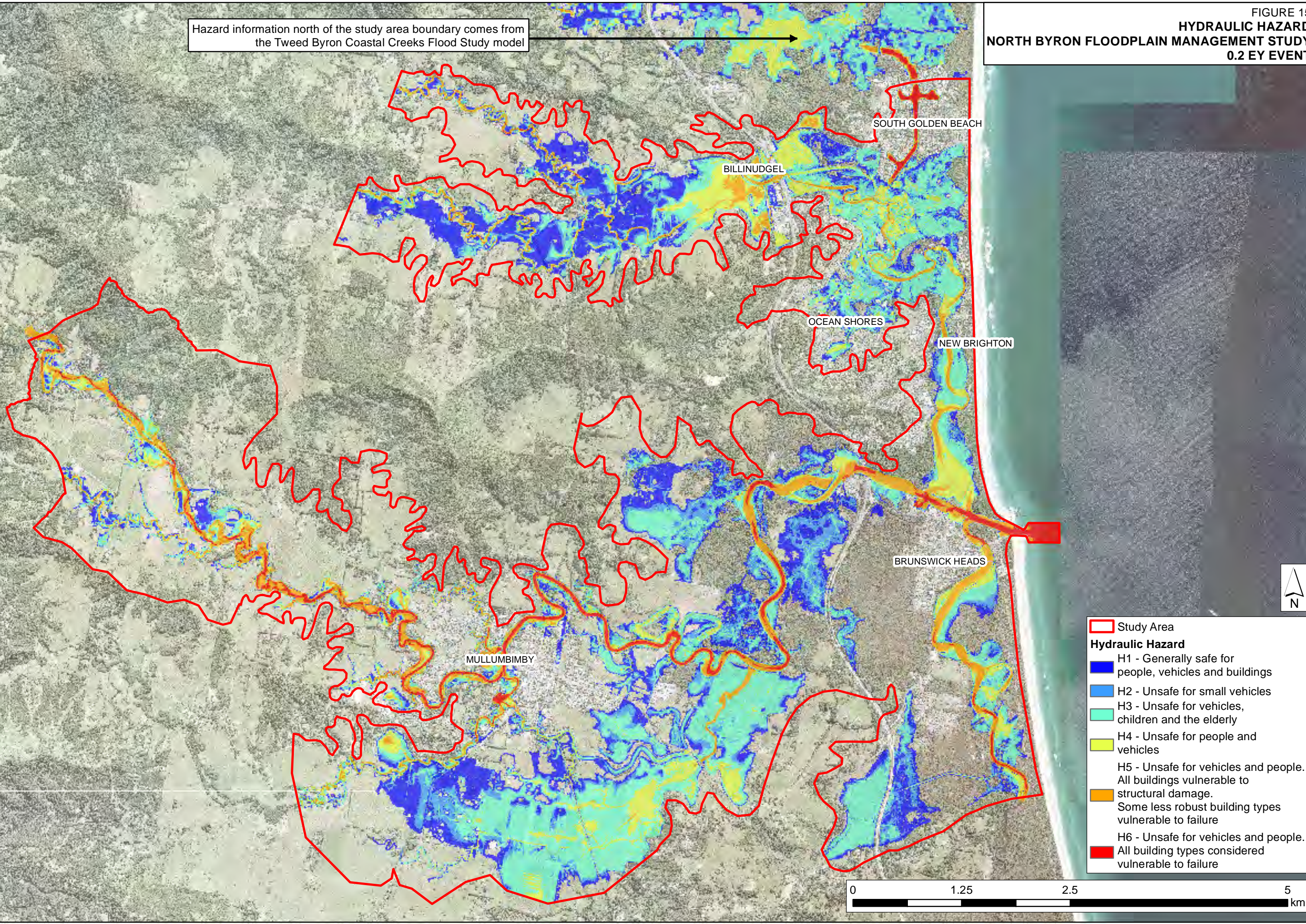


FIGURE 14
FLOOD FUNCTION
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
PMF



HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
0.2 EY EVENT

Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model

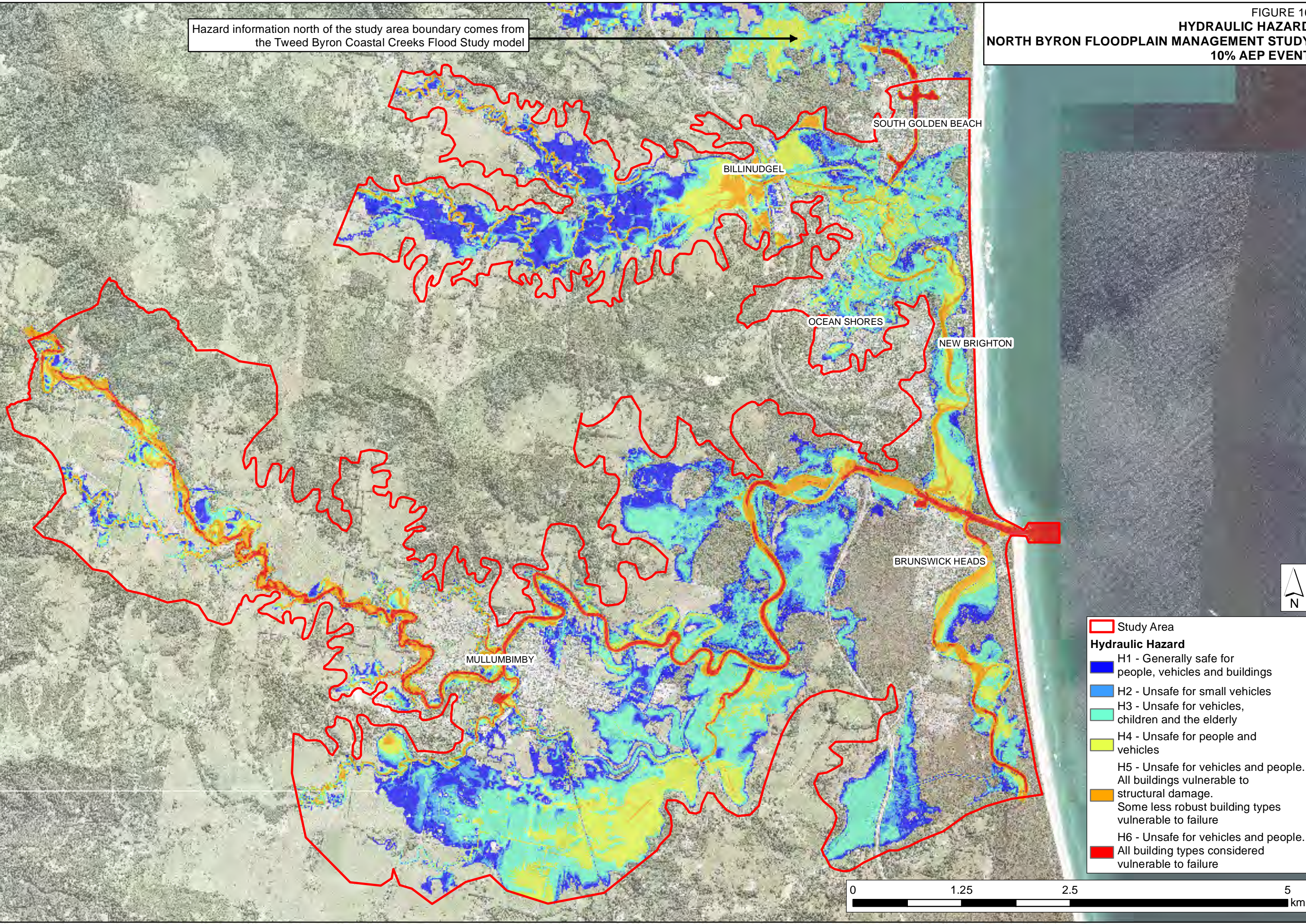


- Study Area**
- Study Area
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and the elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for vehicles and people. All buildings vulnerable to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

FIGURE 16

HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
10% AEP EVENT

Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model

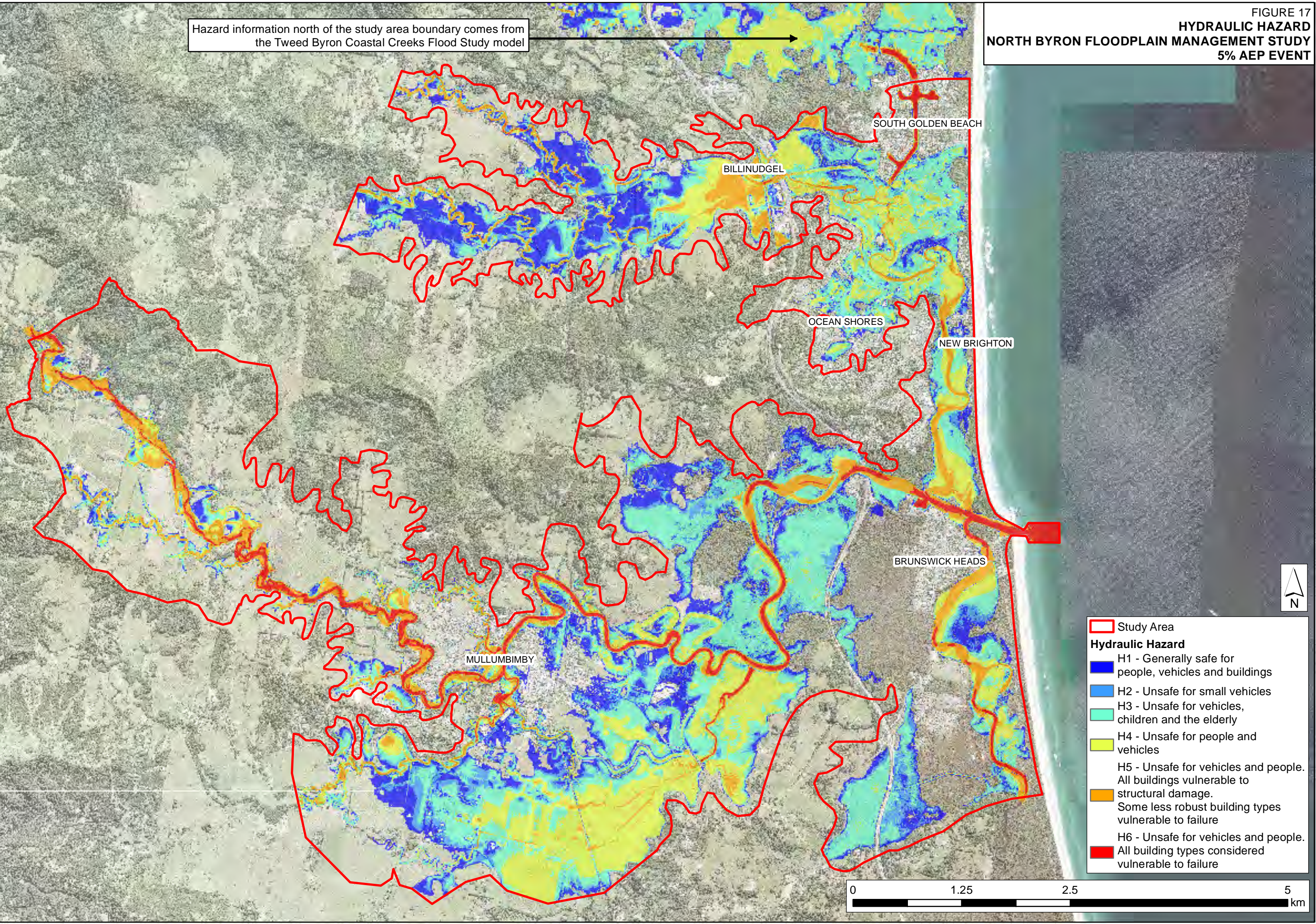


- Study Area**
- Study Area
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and the elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for vehicles and people. All buildings vulnerable to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

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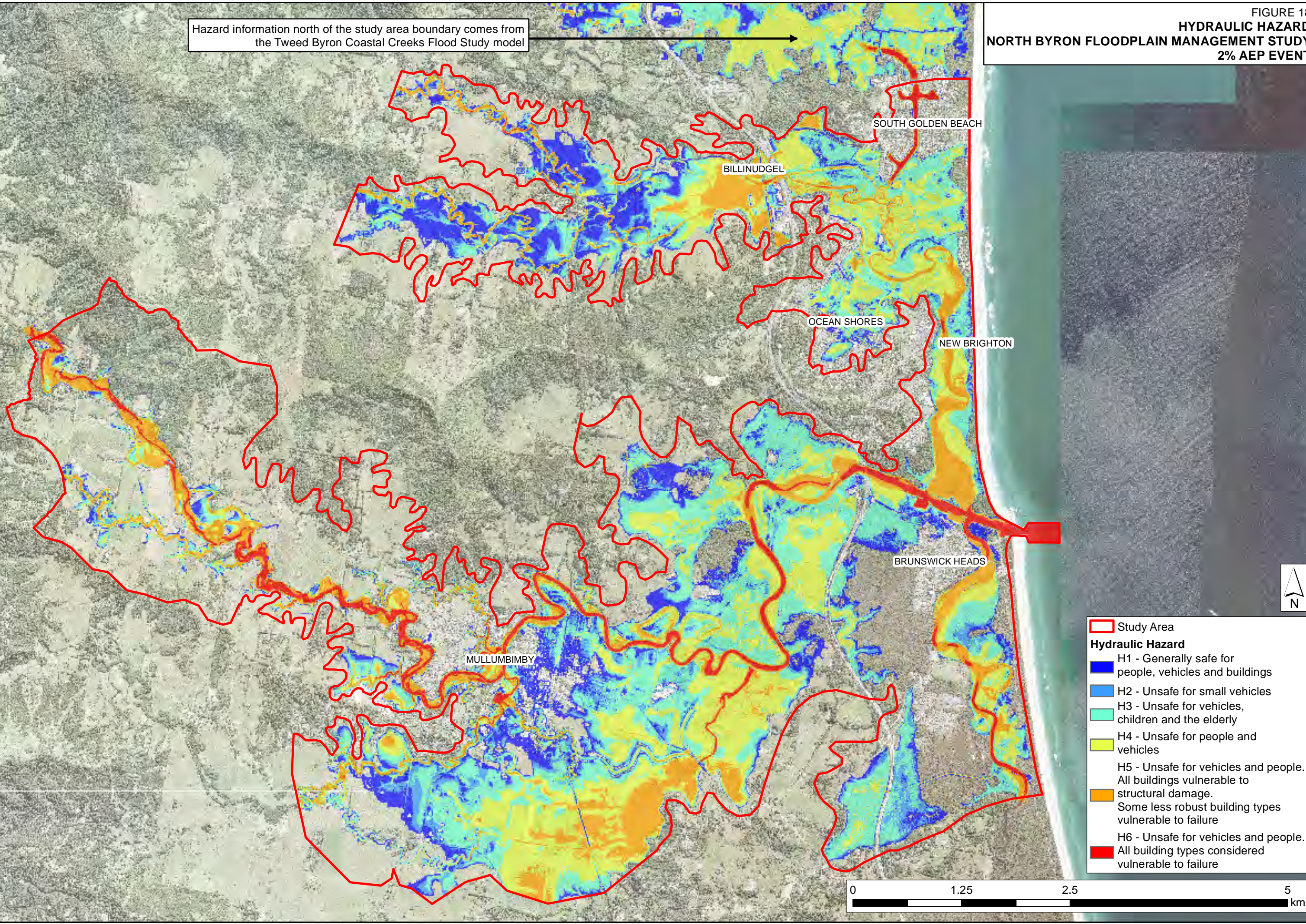
Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model

FIGURE 17
HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
5% AEP EVENT



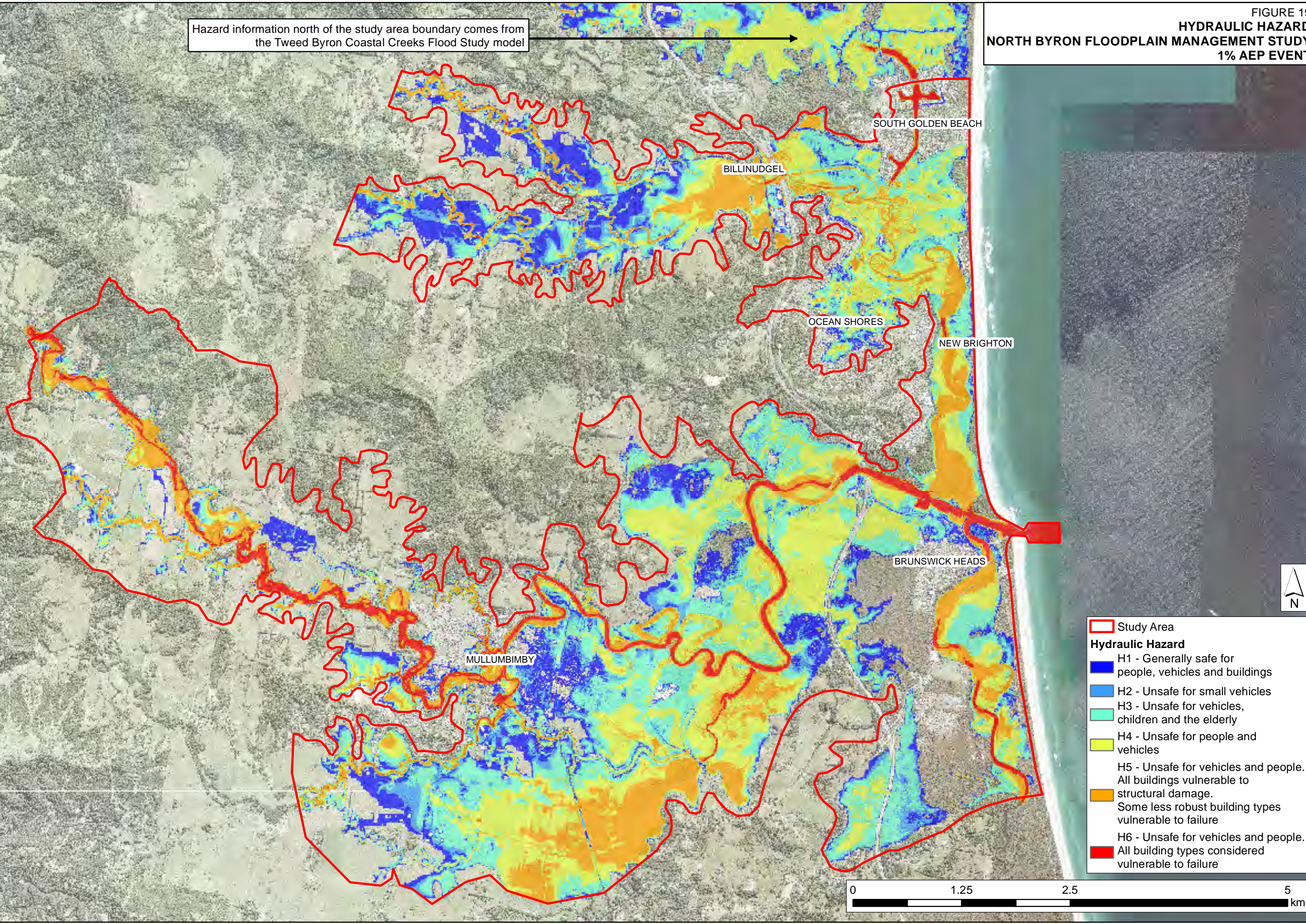
HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
2% AEP EVENT

Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model



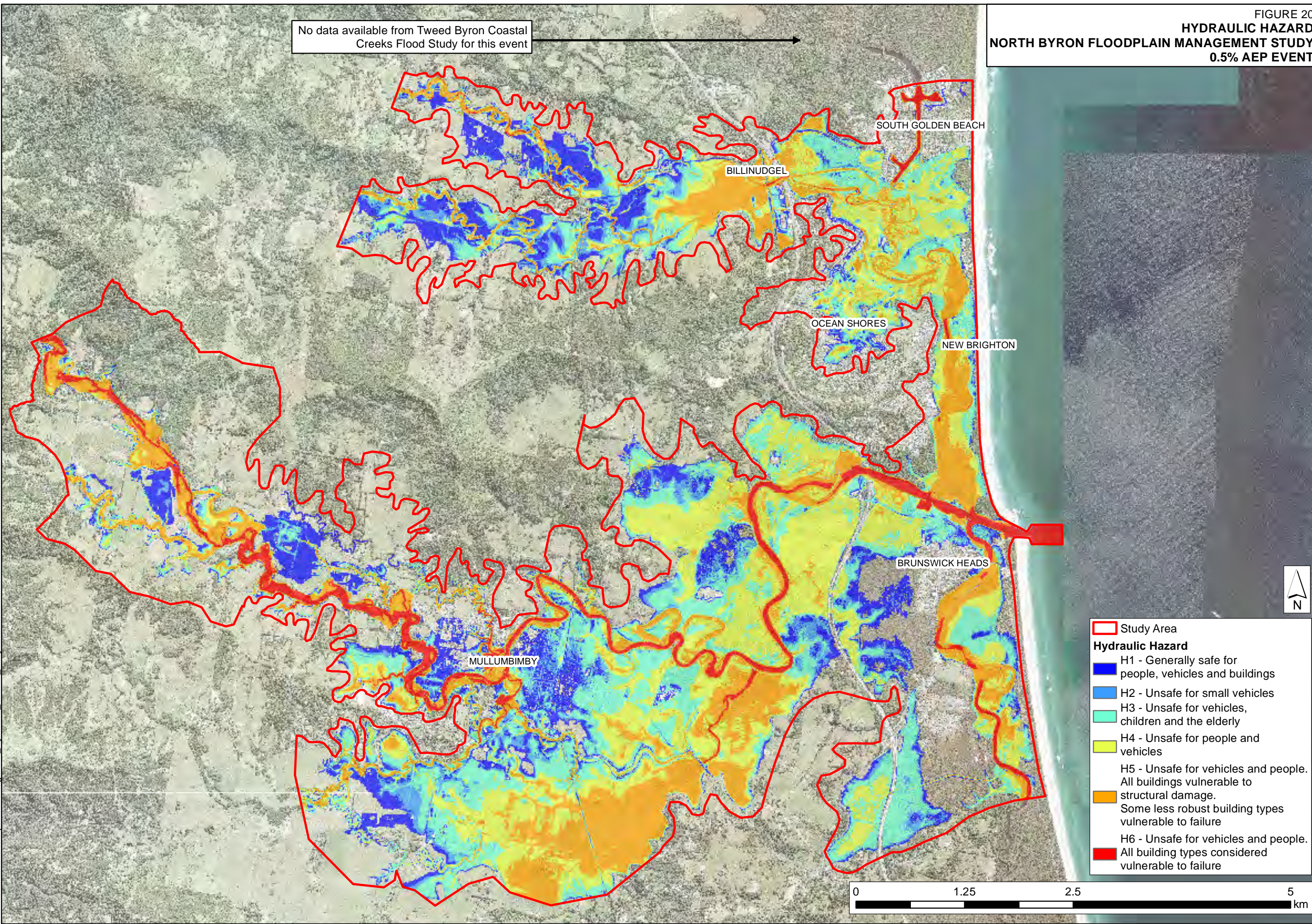
HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
1% AEP EVENT

Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model



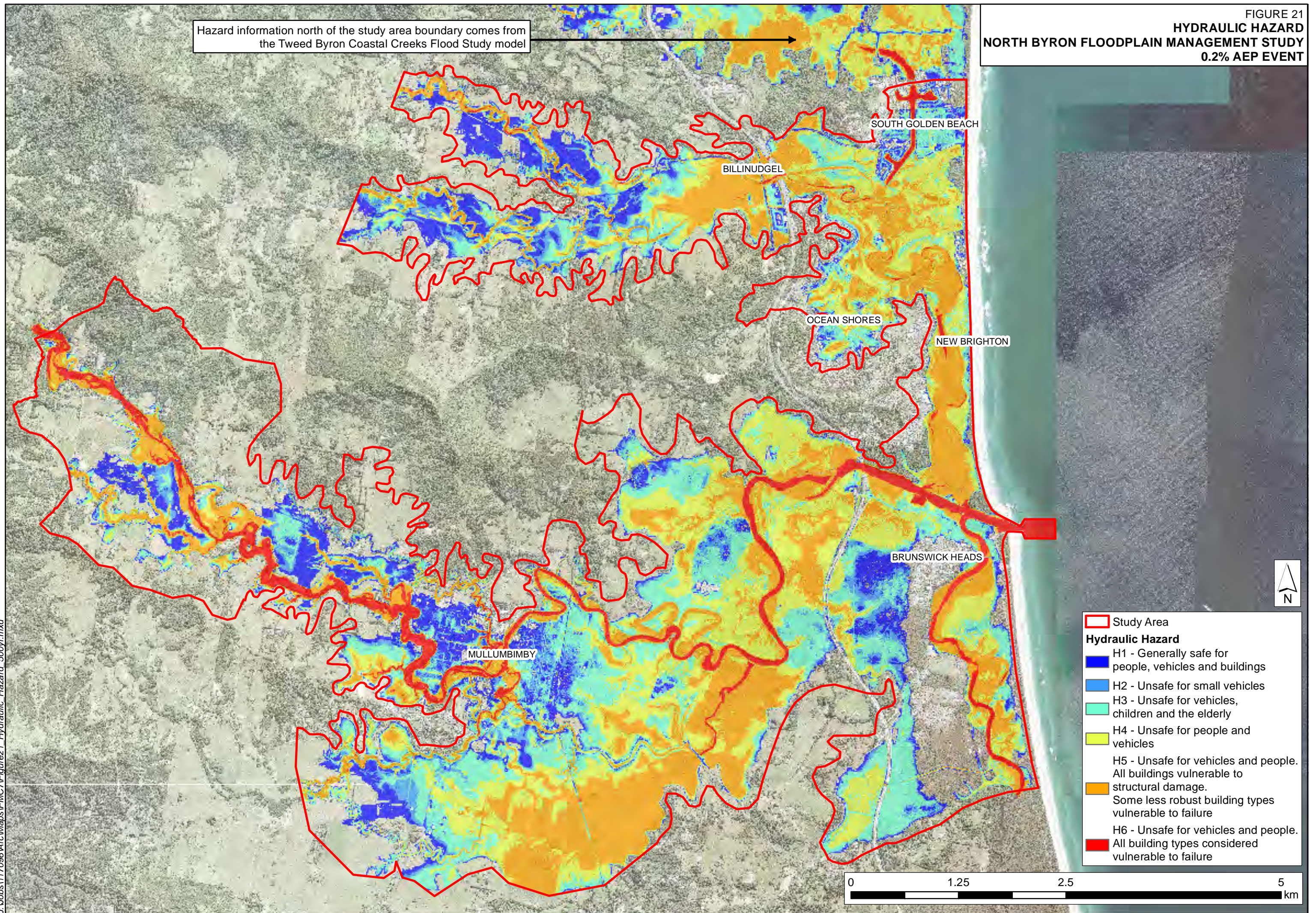
HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
0.5% AEP EVENT

No data available from Tweed Byron Coastal
Creeks Flood Study for this event



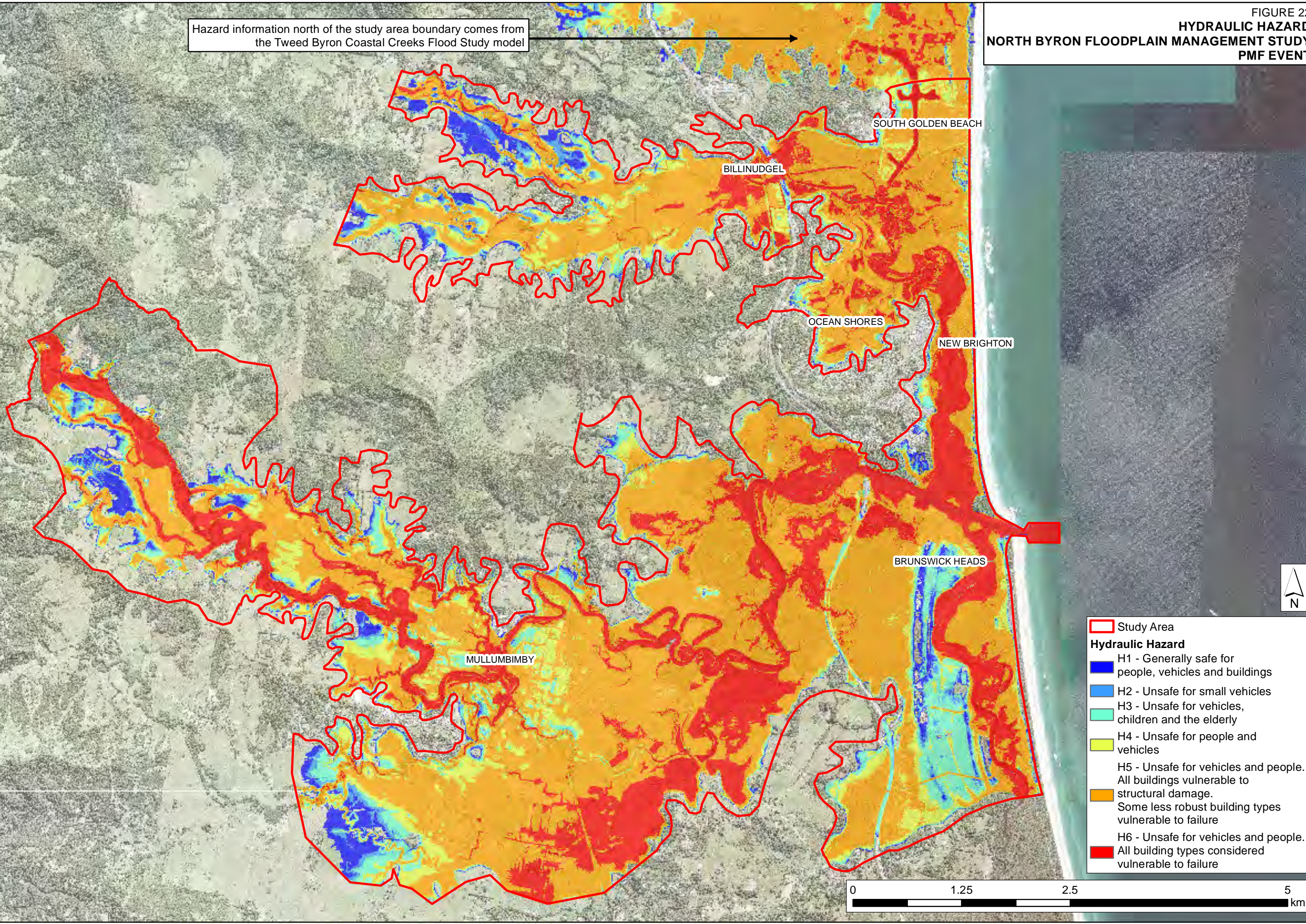
Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model

FIGURE 21
HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
0.2% AEP EVENT



HYDRAULIC HAZARD
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
PMF EVENT

Hazard information north of the study area boundary comes from the Tweed Byron Coastal Creeks Flood Study model



- Study Area**
- Study Area
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and the elderly
 - H4 - Unsafe for people and vehicles
 - 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

FIGURE 23
FLOOD EMERGENCY RESPONSE CLASSIFICATION
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
PMF EVENT

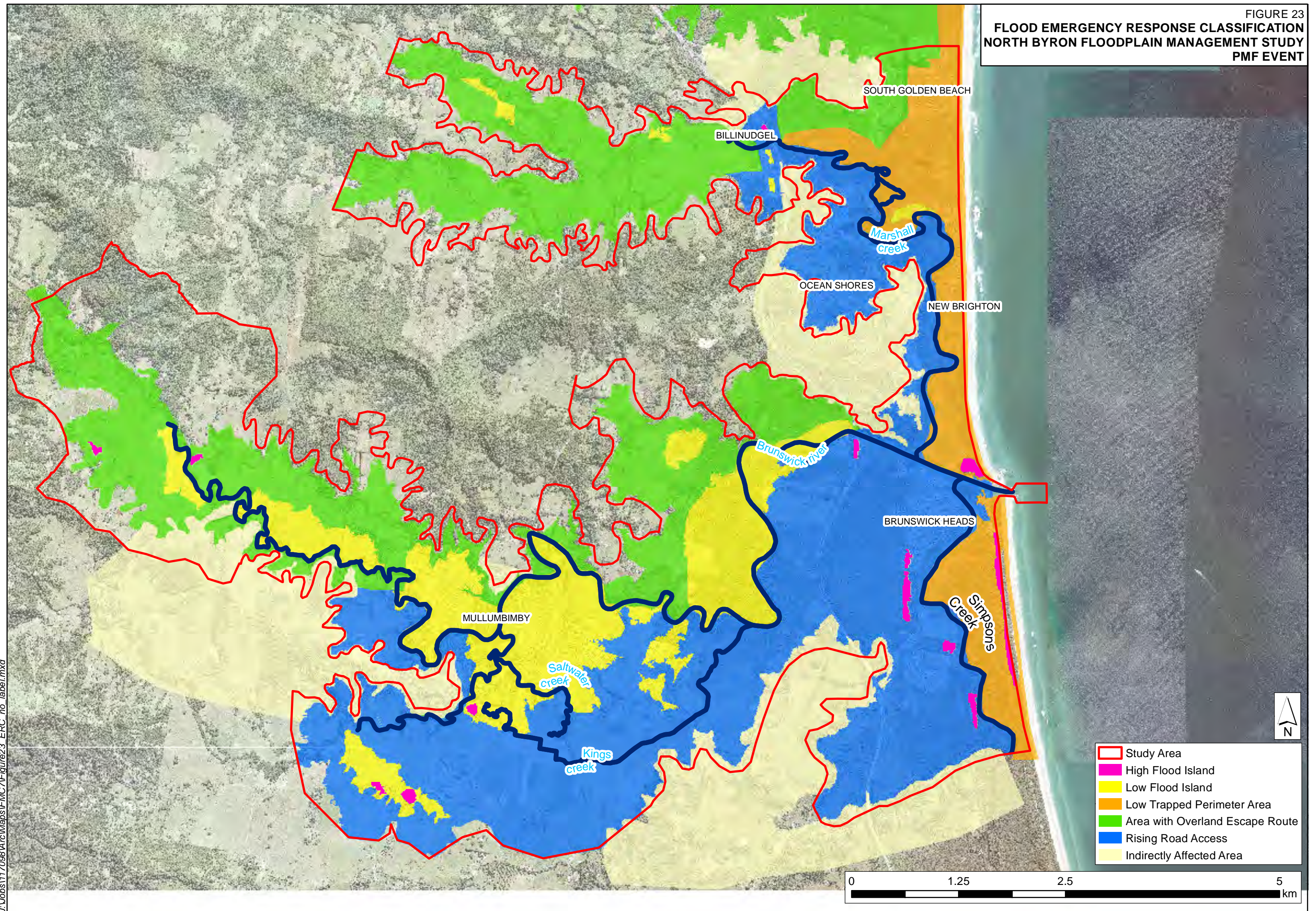


FIGURE 24
FLOOD EMERGENCY RESPONSE CLASSIFICATION
RISING ROAD ACCESS
NORTH BYRON FLOODPLAIN MANAGEMENT STUDY
PMF EVENT

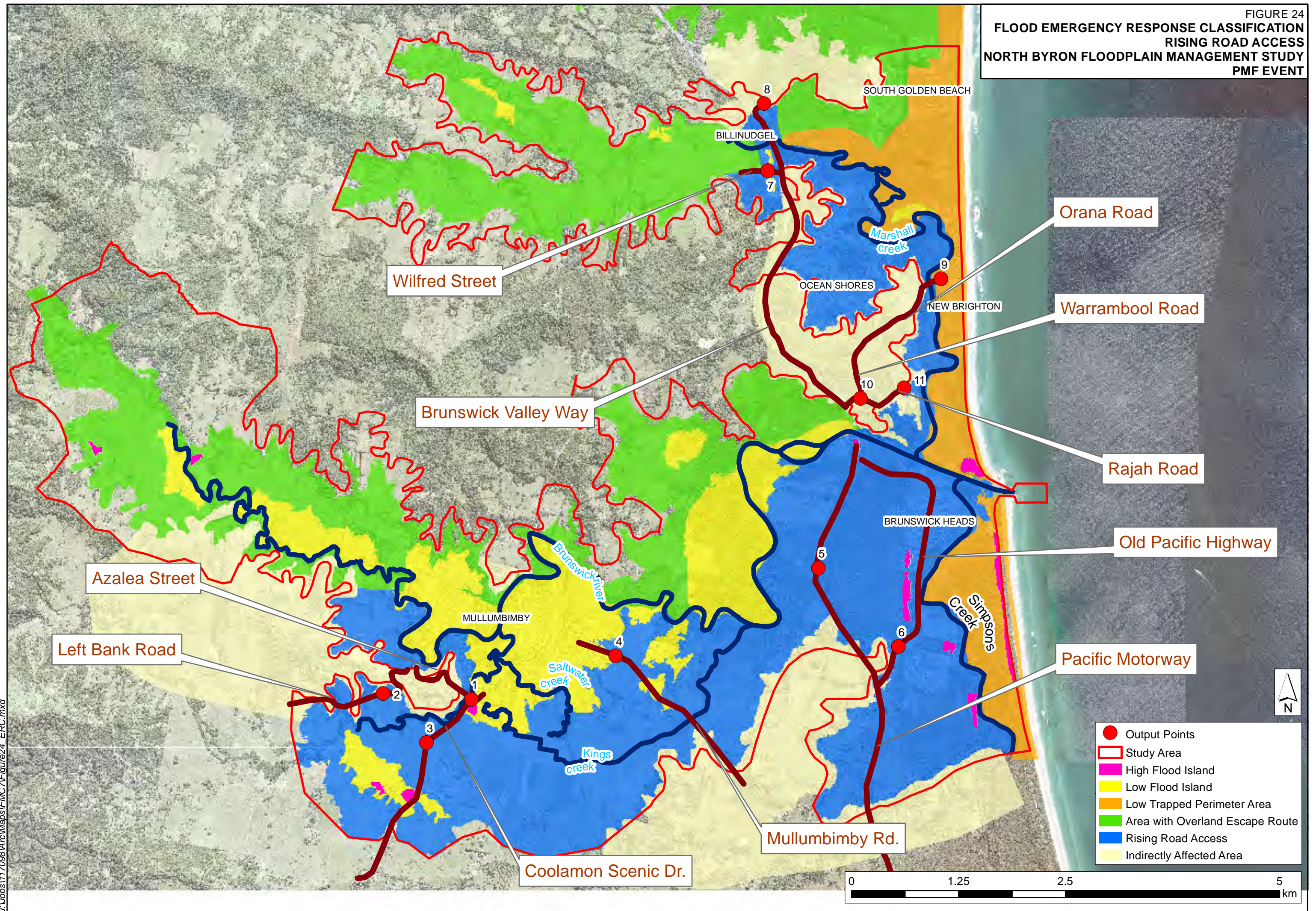


FIGURE 25
EVACUATION ROUTES

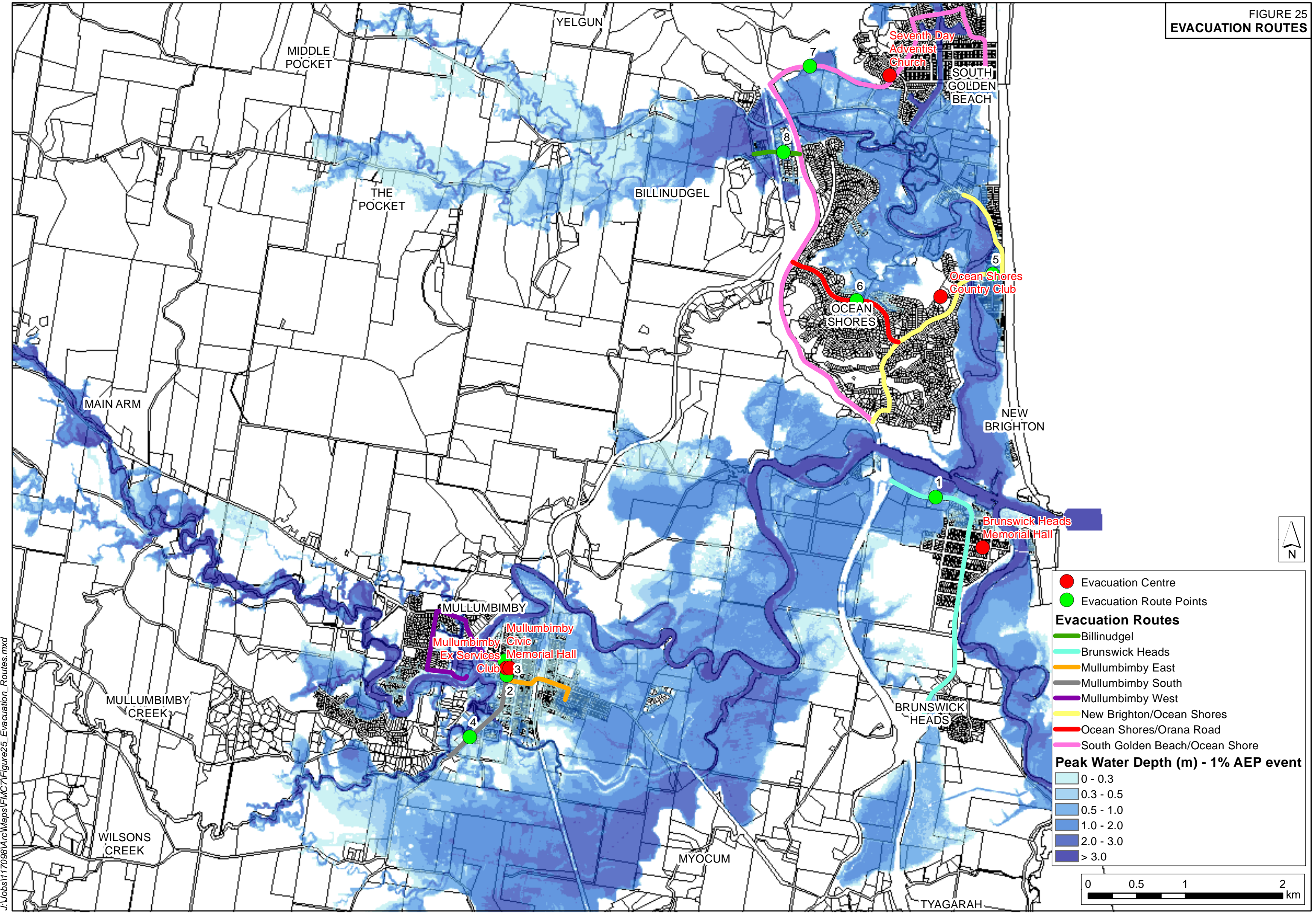


FIGURE 25A
EVACUATION ROUTES
BRUNSWICK HEADS NORTH

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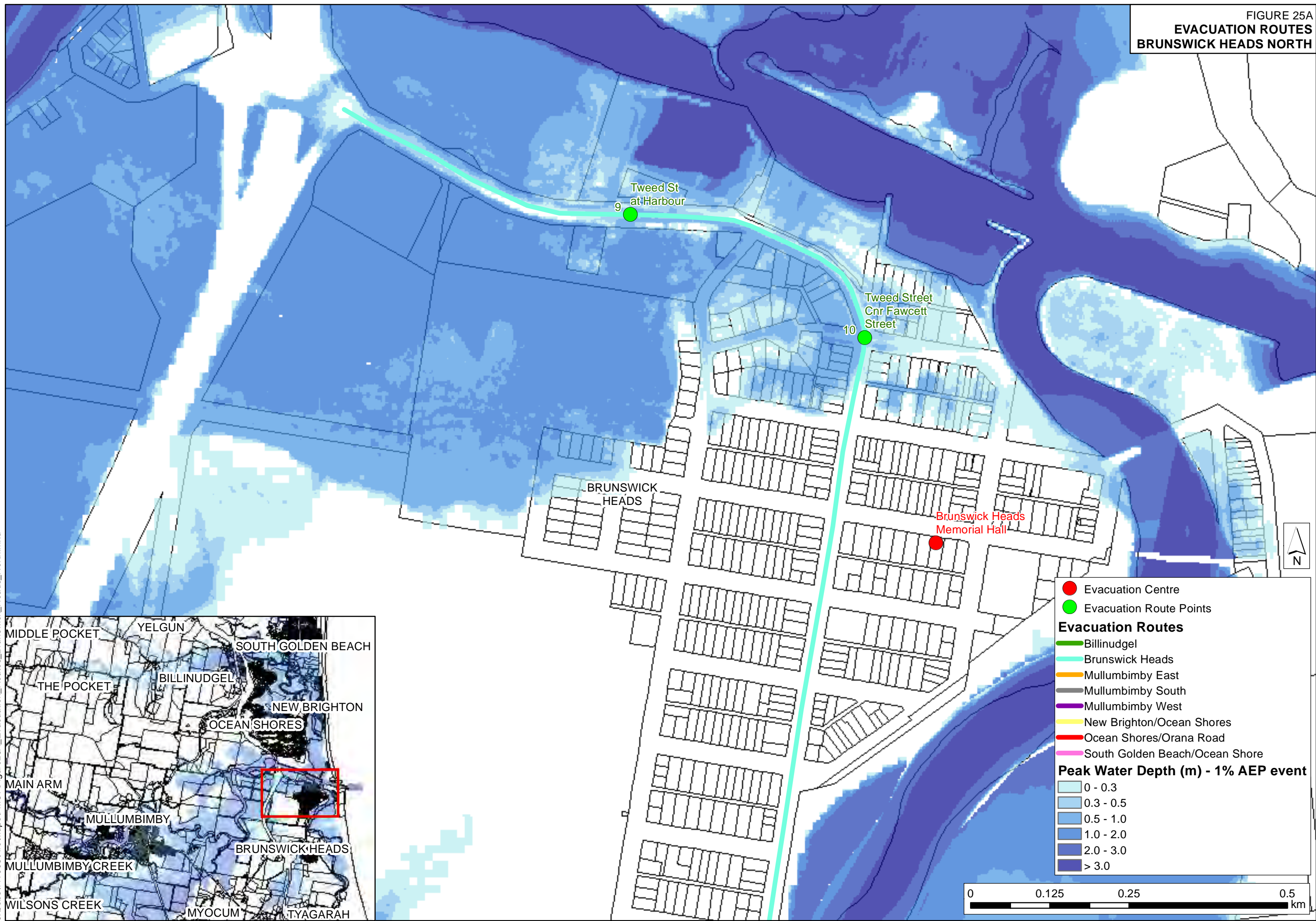


FIGURE 25B
EVACUATION ROUTES
BRUNSWICK HEADS SOUTH

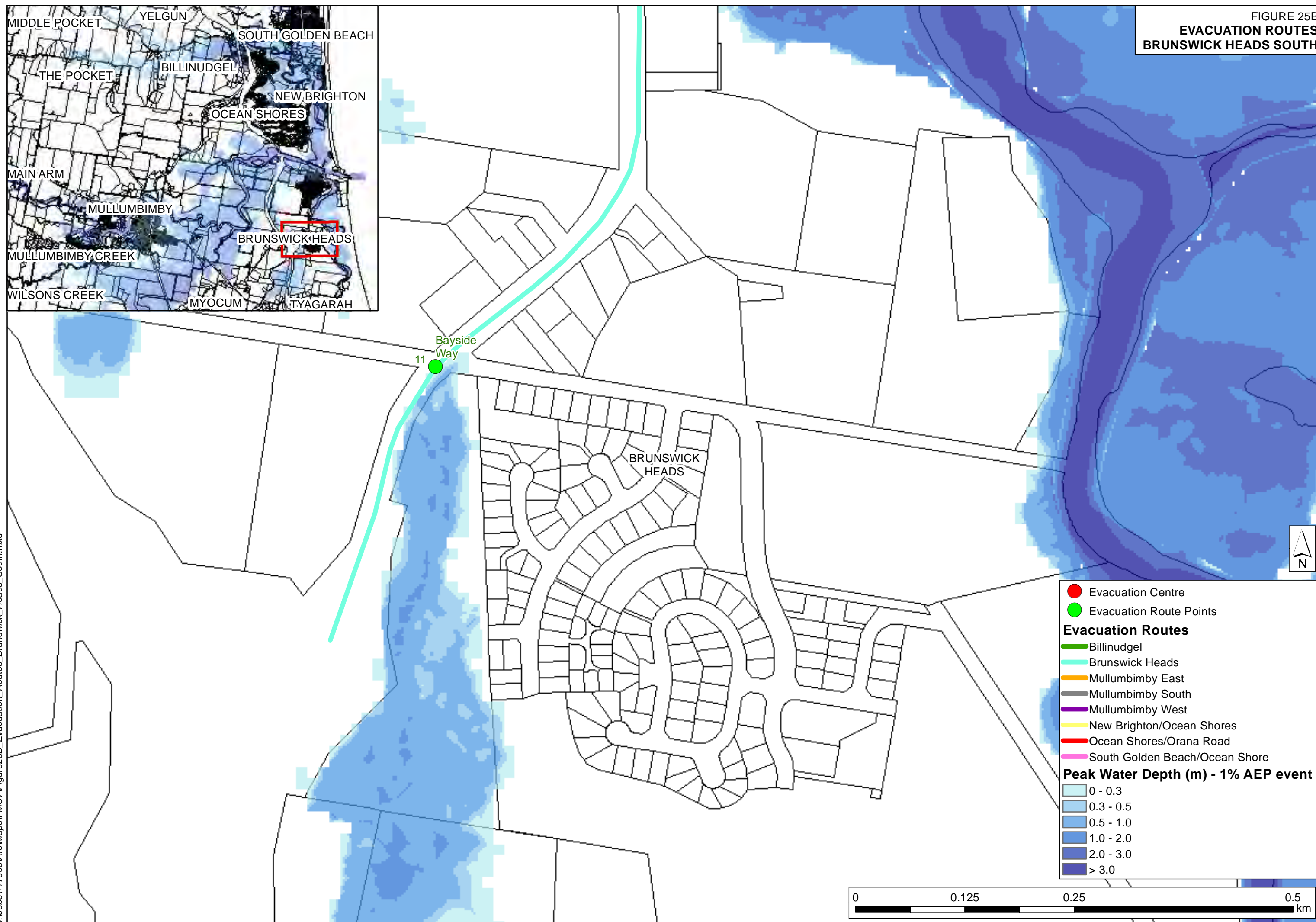
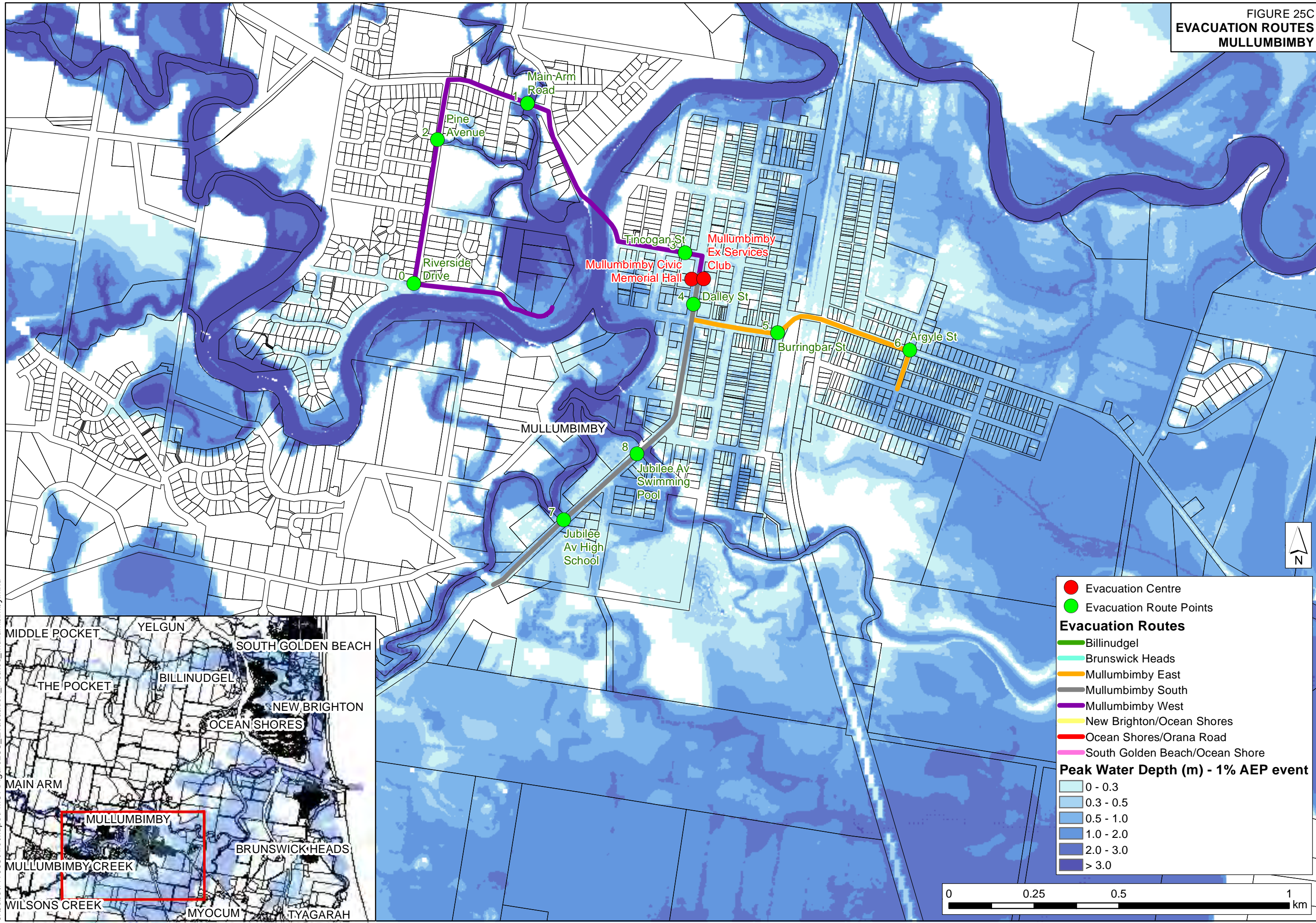
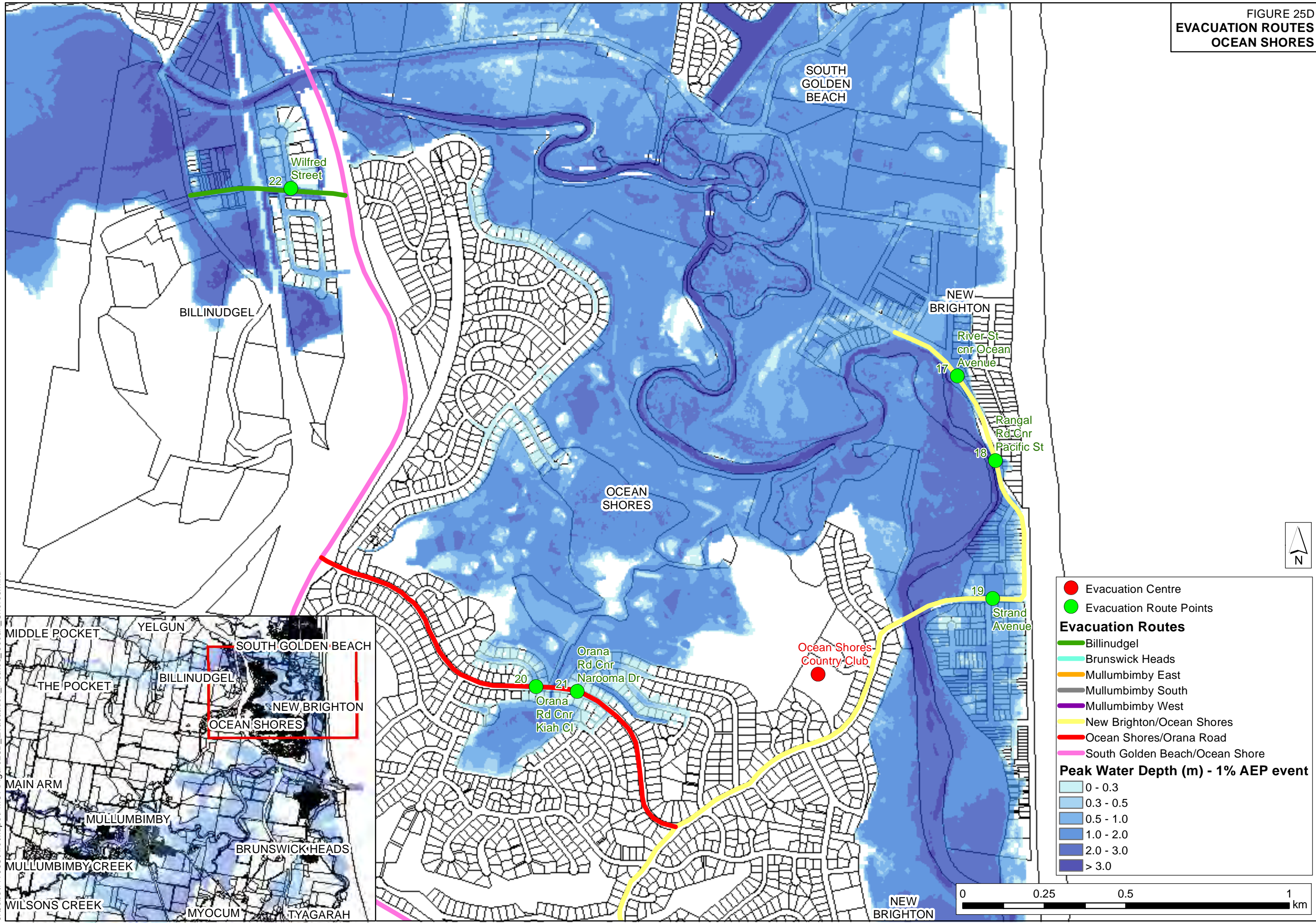


FIGURE 25C
EVACUATION ROUTES
MULLUMBIMBY



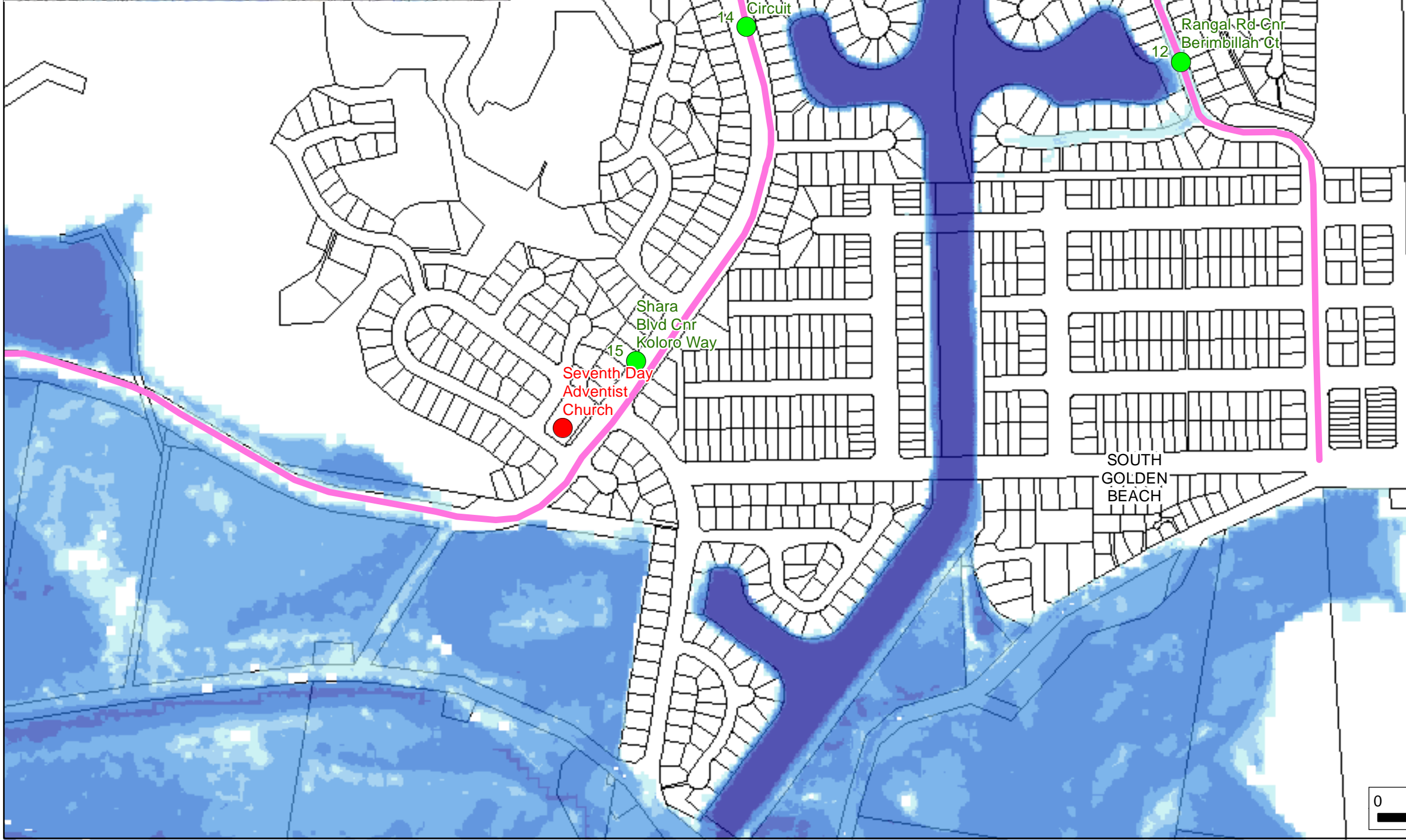
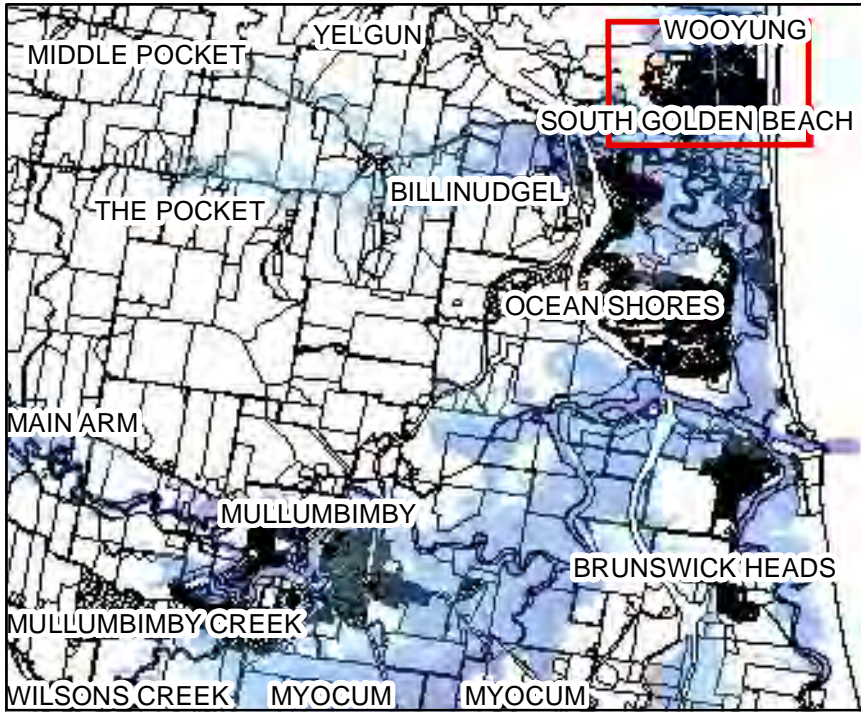
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FIGURE 25D
EVACUATION ROUTES
OCEAN SHORES

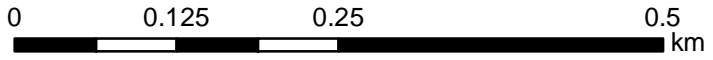


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FIGURE 25E
EVACUATION ROUTES
SOUTH GOLDEN BEACH

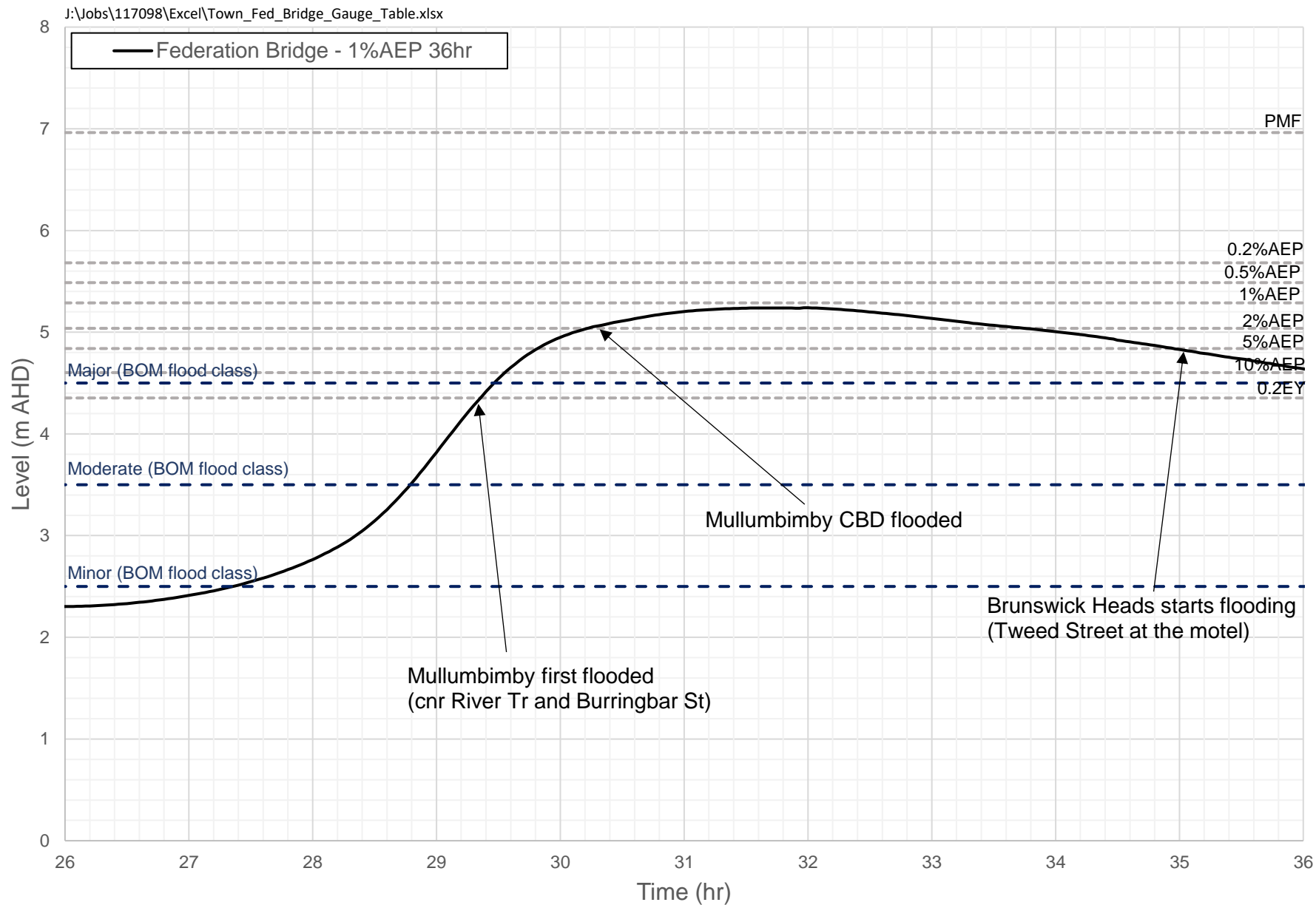


- Evacuation Centre
 - Evacuation Route Points
- Evacuation Routes**
- Billinudgel
 - Brunswick Heads
 - Mullumbimby East
 - Mullumbimby South
 - Mullumbimby West
 - New Brighton/Ocean Shores
 - Ocean Shores/Orana Road
 - South Golden Beach/Ocean Shore
- Peak Water Depth (m) - 1% AEP event**
- 0 - 0.3
 - 0.3 - 0.5
 - 0.5 - 1.0
 - 1.0 - 2.0
 - 2.0 - 3.0
 - > 3.0



1% AEP DESIGN EVENT-TOWN FLOODING FOR MULLUMBIMBY & BRUNSWICK HEADS
STAGE HYDROGRAPH AT FEDERATION BRIDGE GAUGE

FIGURE 26



J:\Jobs\117098\Excel\Rate_River_Rise\Town_Flooding_Billinudgel_Gauge.xlsx

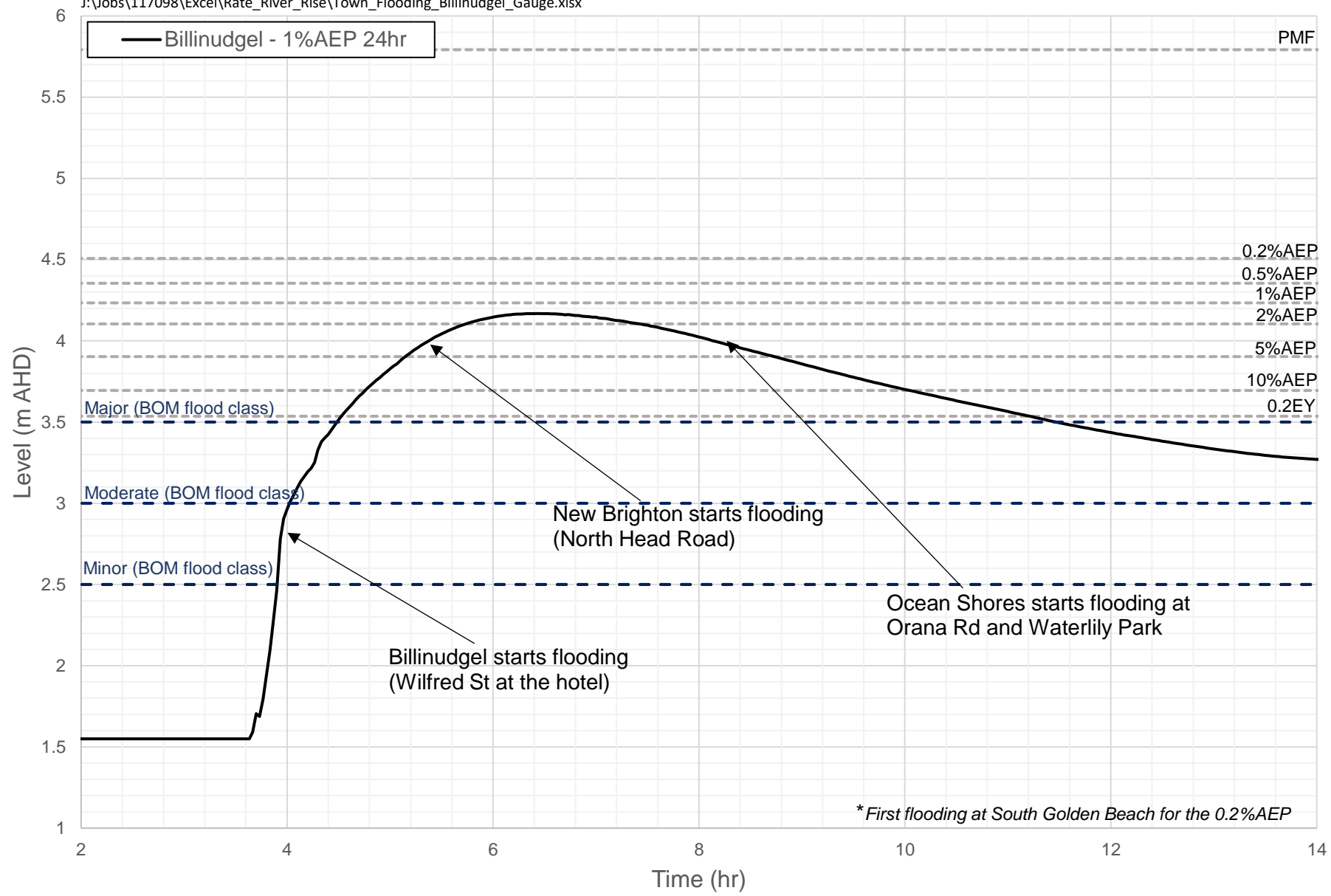


FIGURE 27
1% AEP DESIGN EVENT-TOWN FLOODING AT BILLINUDGEL, NEW BRIGHTON AND
OCEAN SHORES, STAGE HYDROGRAPH AT BILLINUDGEL GAUGE

* First flooding at South Golden Beach for the 0.2% AEP

PROPERTIES FLOODED ABOVE FLOOR LEVEL

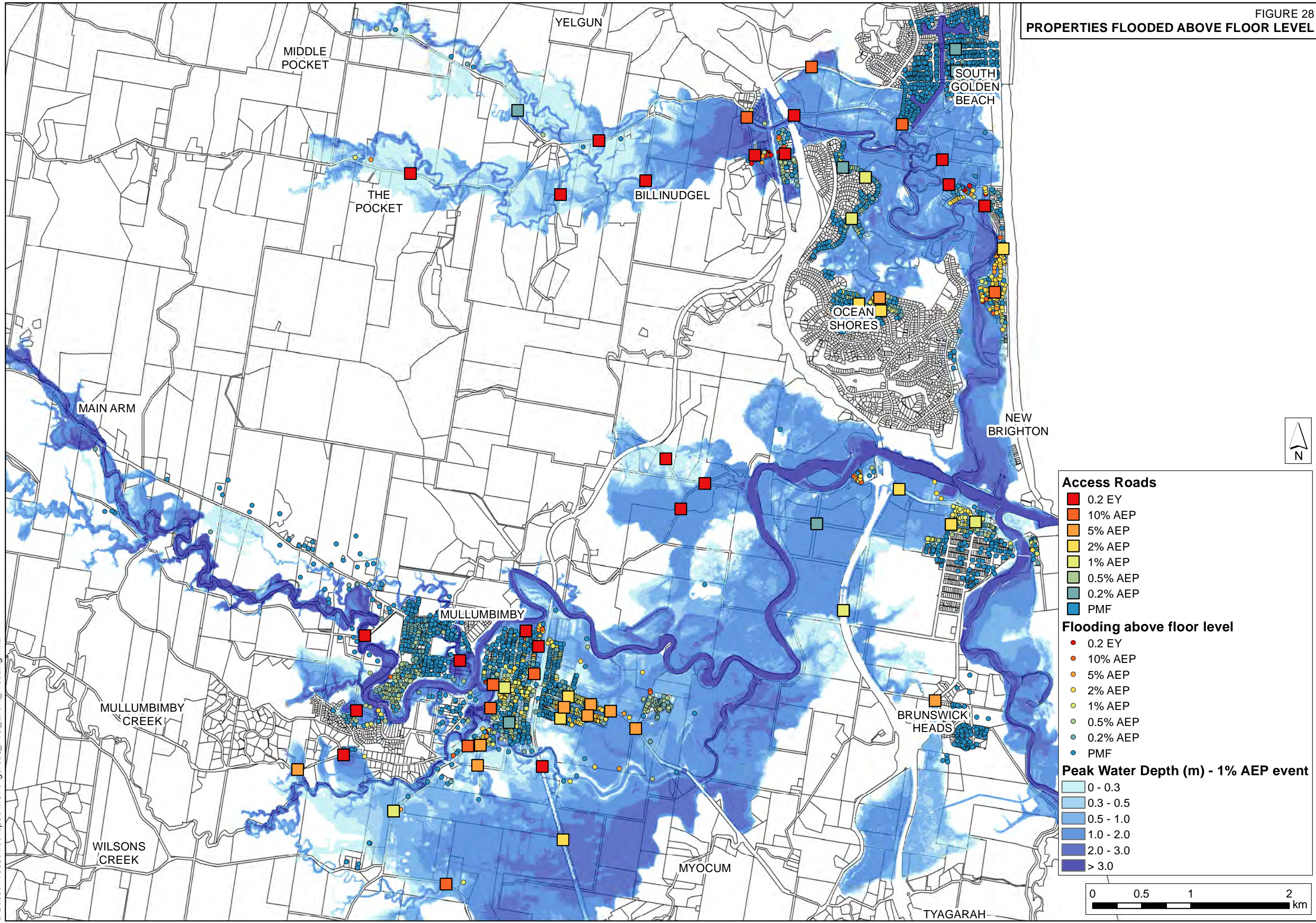


FIGURE 29
PROPERTIES FLOODED ABOVE FLOOR LEVEL
MULLUMBIMBY

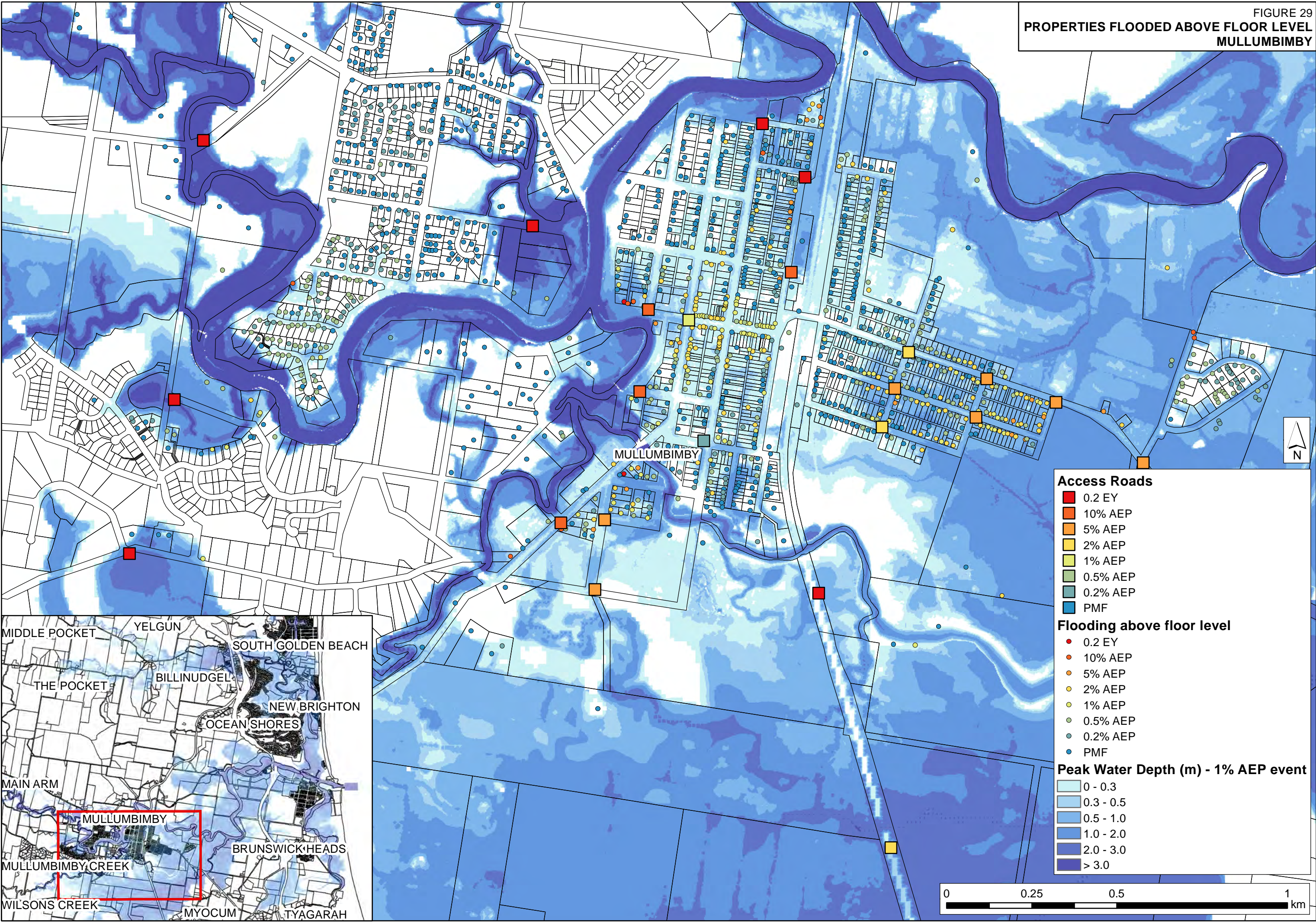
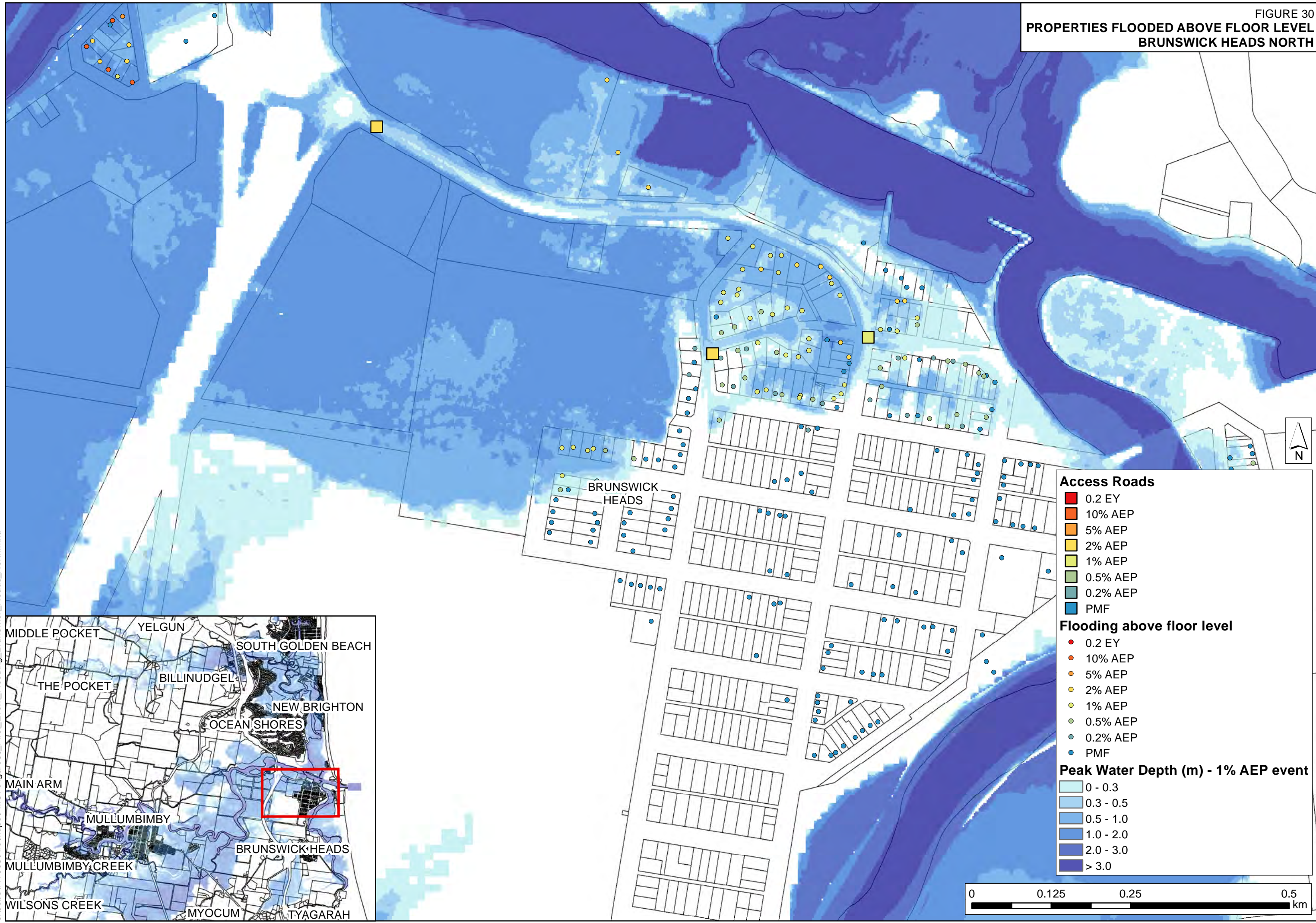


FIGURE 30
PROPERTIES FLOODED ABOVE FLOOR LEVEL
BRUNSWICK HEADS NORTH

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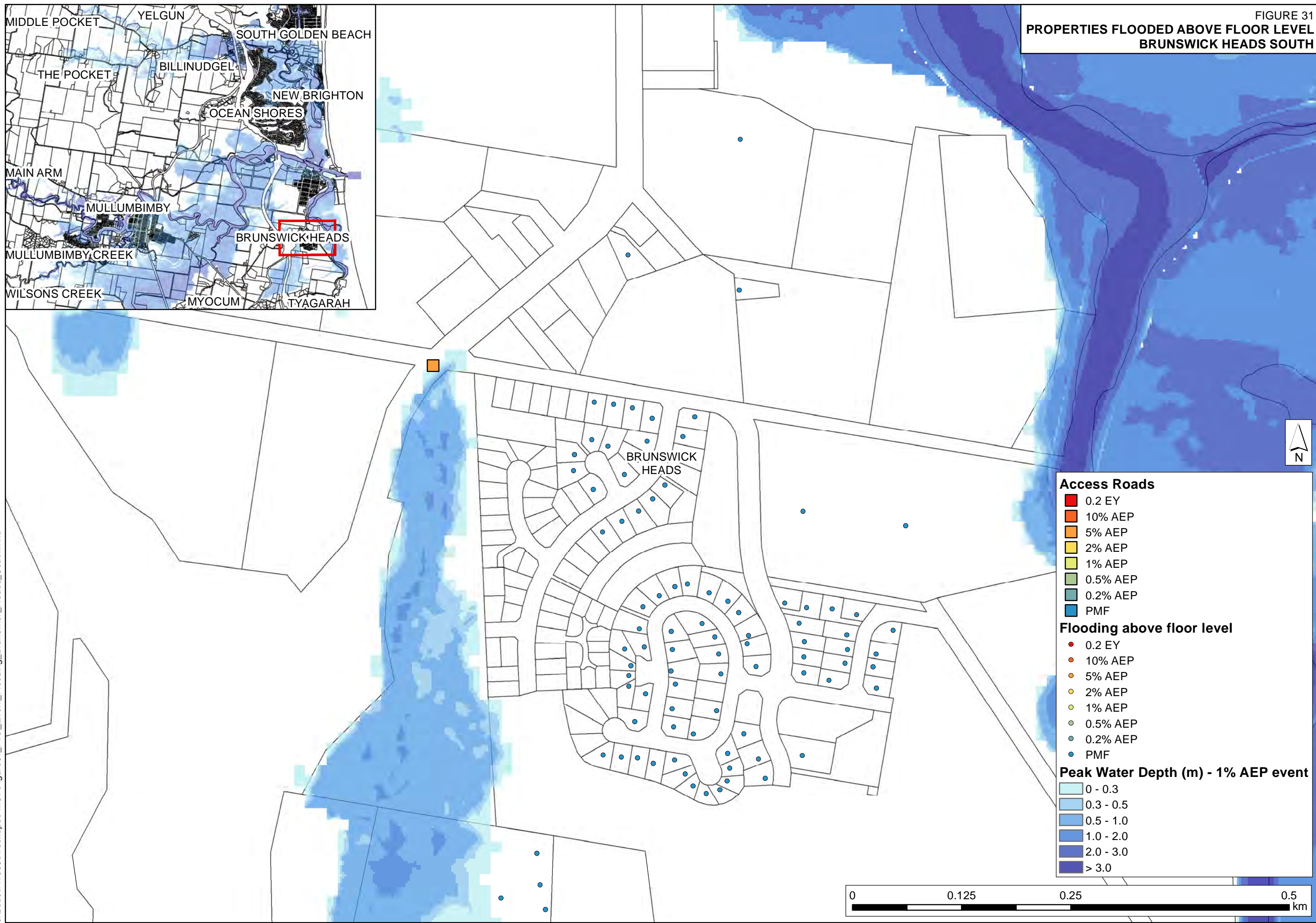
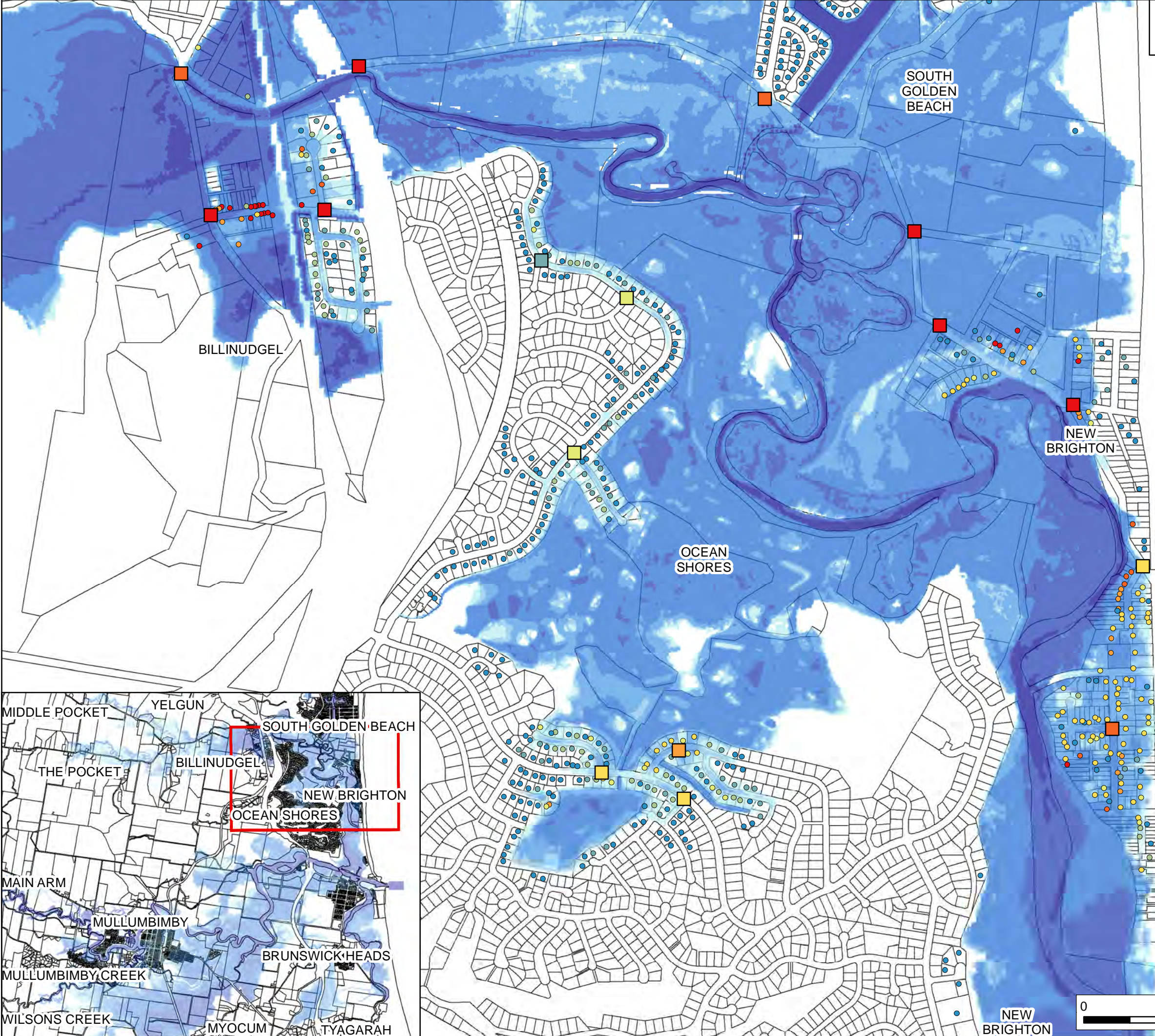


FIGURE 32
PROPERTIES FLOODED ABOVE FLOOR LEVEL
OCEAN SHORES



Access Roads

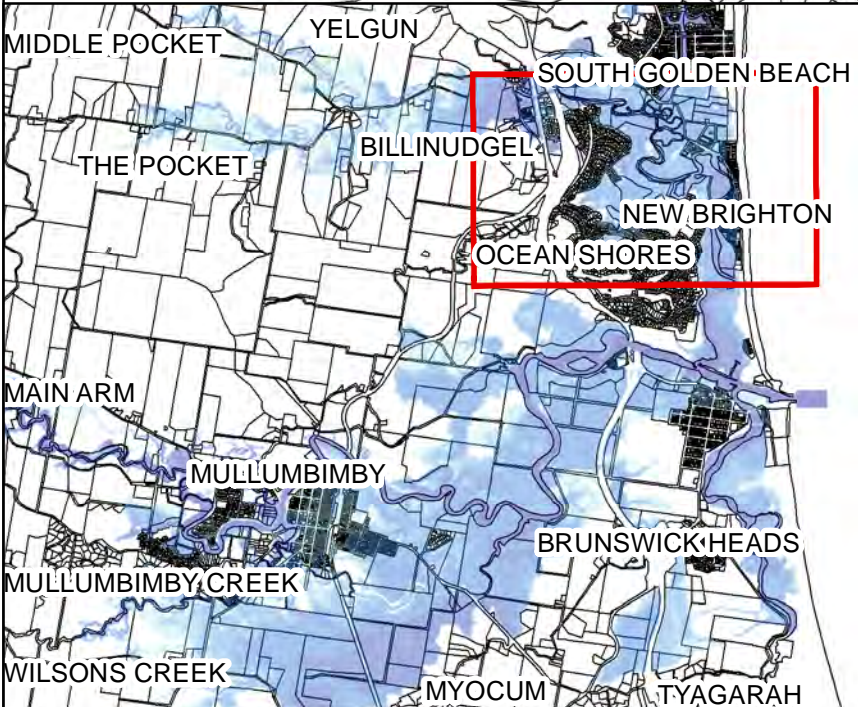
- 0.2 EY
- 10% AEP
- 5% AEP
- 2% AEP
- 1% AEP
- 0.5% AEP
- 0.2% AEP
- PMF

Flooding above floor level

- 0.2 EY
- 10% AEP
- 5% AEP
- 2% AEP
- 1% AEP
- 0.5% AEP
- 0.2% AEP
- PMF

Peak Water Depth (m) - 1% AEP event

- 0 - 0.3
- 0.3 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 3.0
- > 3.0



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