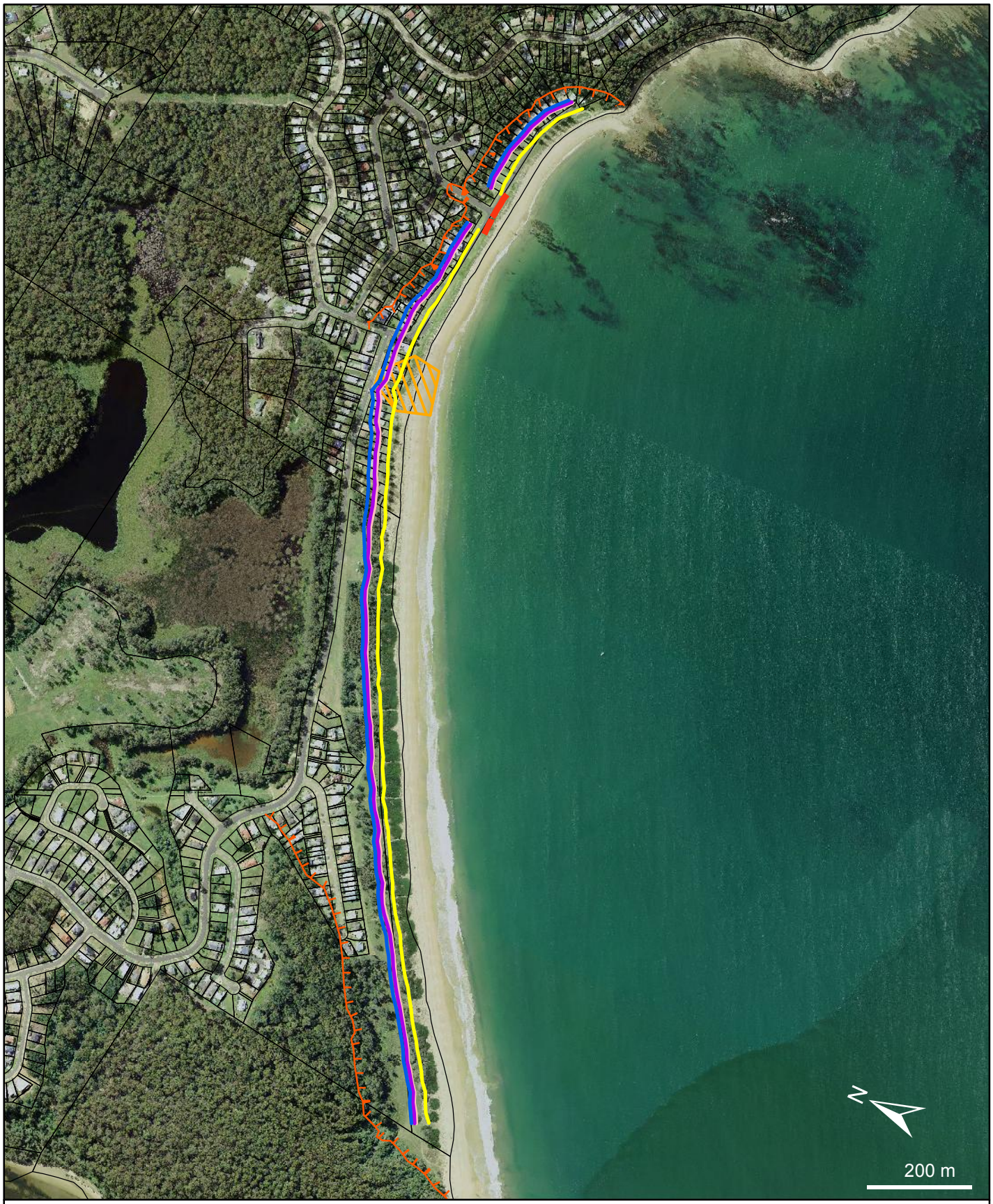
Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.

Maloneys Beach
Deterministic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region

Figure I.1



Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.
Note 3: Areas landward of the bedrock (non-erodible) line could be subject to coastal cliff or slope instability hazards which are beyond the scope of this study.
Note 4: The shape of hazard lines not located at the seawall is hypothetical only and requires further detailed assessment beyond the scope of this study.

Long Beach existing seawall
5% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region
Bedrock (non-erodible)
Seawall

Figure I.2

Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.
Note 3: Areas landward of the bedrock (non-erodible) line could be subject to coastal cliff or slope instability hazards which are beyond the scope of this study.
Note 4: The shape of hazard lines not located at the seawall is hypothetical only and requires further detailed assessment beyond the scope of this study.

Long Beach existing seawall (east)
5% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region
Bedrock (non-erodible)
Seawall

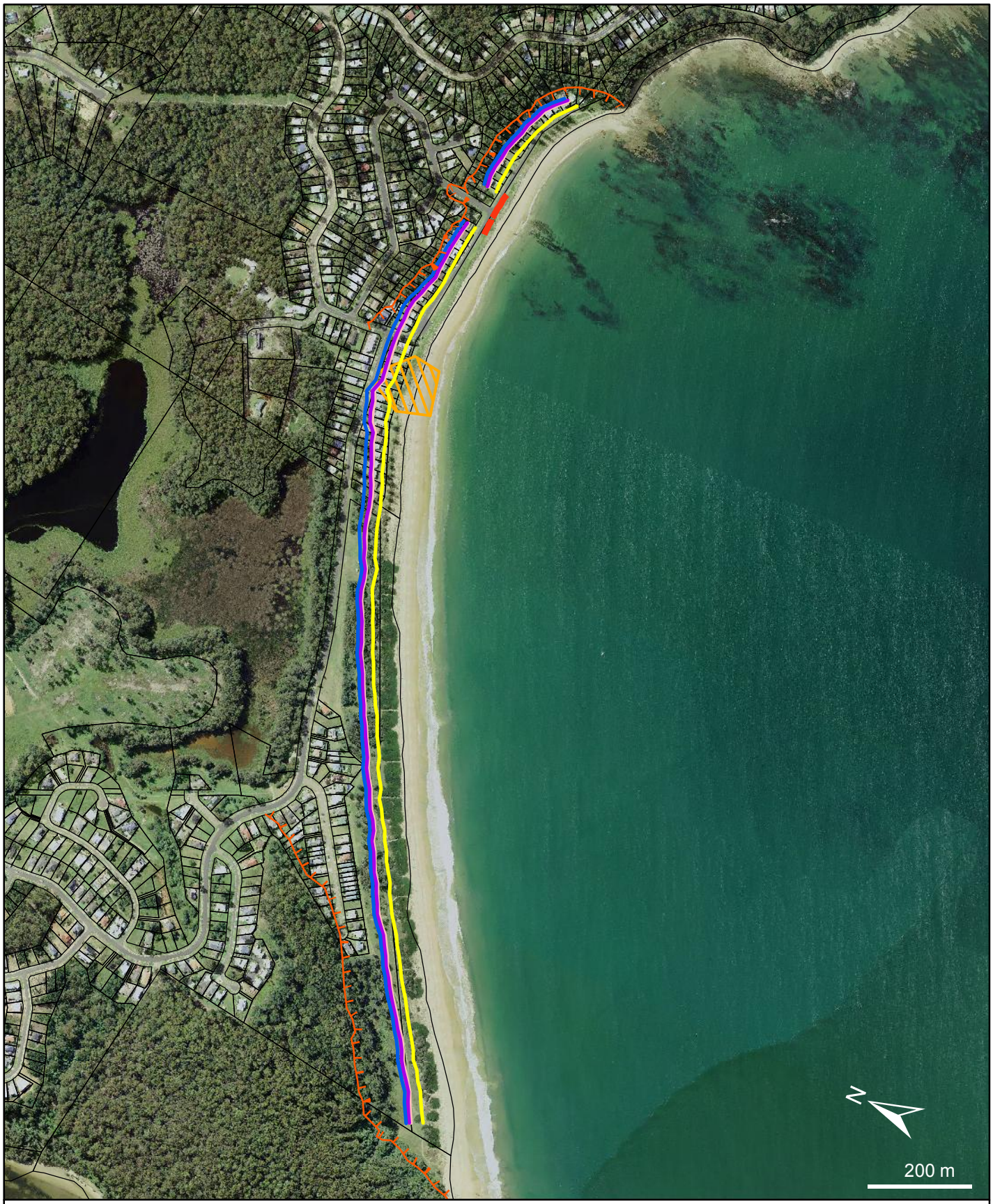
Figure I.3

Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.

Long Beach existing seawall (west)
5% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100
Bedrock (non-erodible)

Figure I.4



Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.
Note 3: Areas landward of the bedrock (non-erodible) line could be subject to coastal cliff or slope instability hazards which are beyond the scope of this study.
Note 4: The shape of hazard lines not located at the seawall is hypothetical only and requires further detailed assessment beyond the scope of this study.

Long Beach existing seawall
1% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region
Bedrock (non-erodible)
Seawall

Figure I.5

Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.
Note 3: Areas landward of the bedrock (non-erodible) line could be subject to coastal cliff or slope instability hazards which are beyond the scope of this study.
Note 4: The shape of hazard lines not located at the seawall is hypothetical only and requires further detailed assessment beyond the scope of this study.

Long Beach existing seawall (east)
1% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region
Bedrock (non-erodible)
Seawall

Figure I.6

Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.

Long Beach existing seawall (west)
1% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100
Bedrock (non-erodible)

Figure I.7

Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.
Note 3: Areas landward of the bedrock (non-erodible) line could be subject to coastal cliff or slope instability hazards which are beyond the scope of this study.

Long Beach no seawall (east)
5% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region
Bedrock (non-erodible)

Figure I.8

Note 1: Landward movement of the shoreline could be limited by the presence of bedrock.
Note 2: The shoreline could potentially move landward of the hazard lines in the watercourse entrance instability region due to lowering of the beach profile from entrance scouring.
Note 3: Areas landward of the bedrock (non-erodible) line could be subject to coastal cliff or slope instability hazards which are beyond the scope of this study.

Long Beach no seawall (east)
1% encounter probability
Probabilistic erosion/recession hazard lines

2017
2050
2065
2100

Watercourse instability region
Bedrock (non-erodible)

Figure I.9