

**FIGURE 1 - STUDY AREA, WATERCOURSES AND ARTIFICIAL FLOOD SOURCES**

LEGEND

 Administrative Boundary	 EA Main River	 Critical Ordinary Watercourse	 Artificial Watercourses
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**LEVEL I STRATEGIC FLOOD RISK ASSESSMENT** 

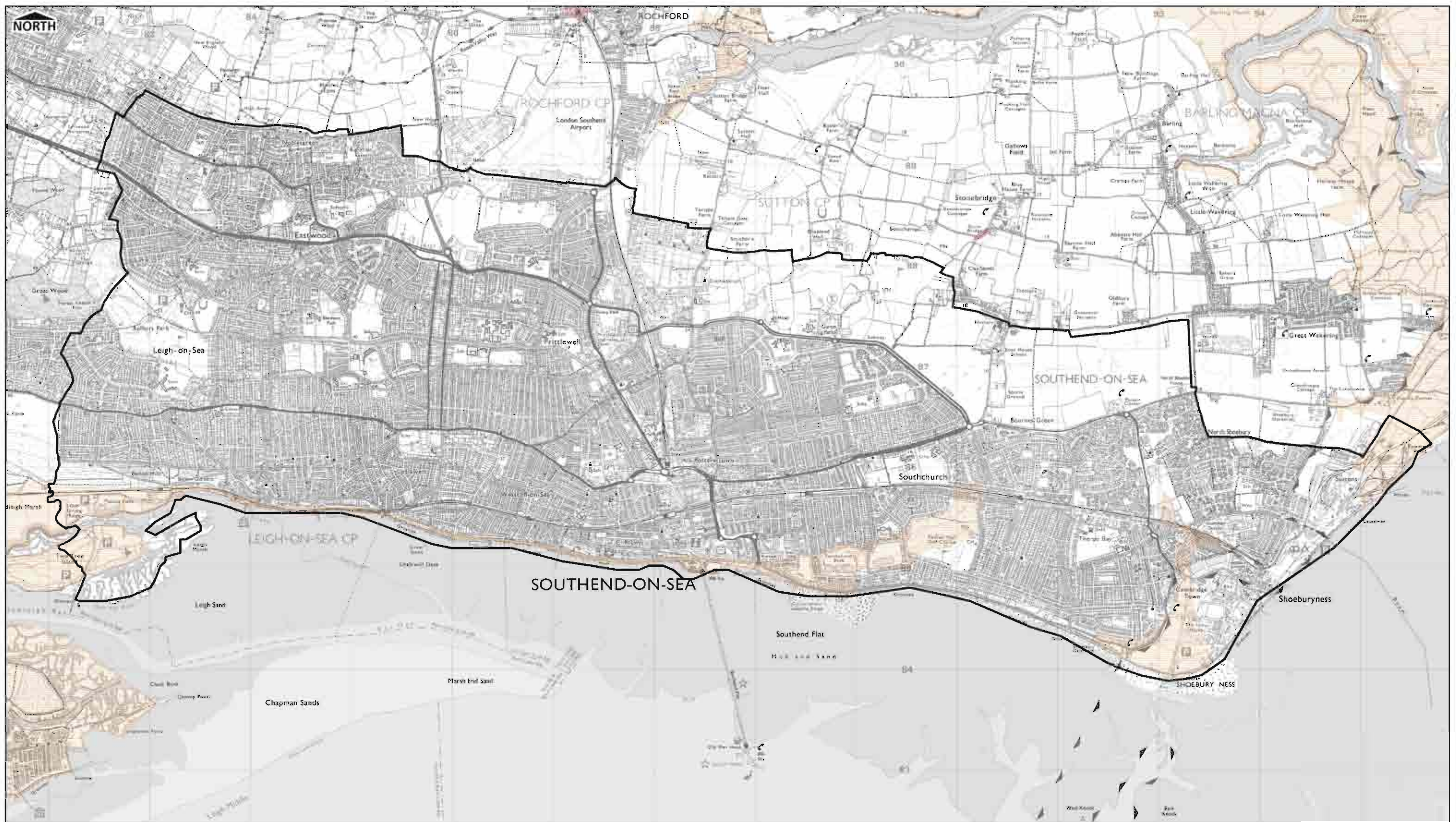
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**FIGURE 1**



**FIGURE 2 - 1953 HISTORIC FLOOD EXTENTS**

LEGEND

-  Administrative Boundary
-  1953 Historic Flood Extents

**LEVEL I STRATEGIC  
FLOOD RISK ASSESSMENT**



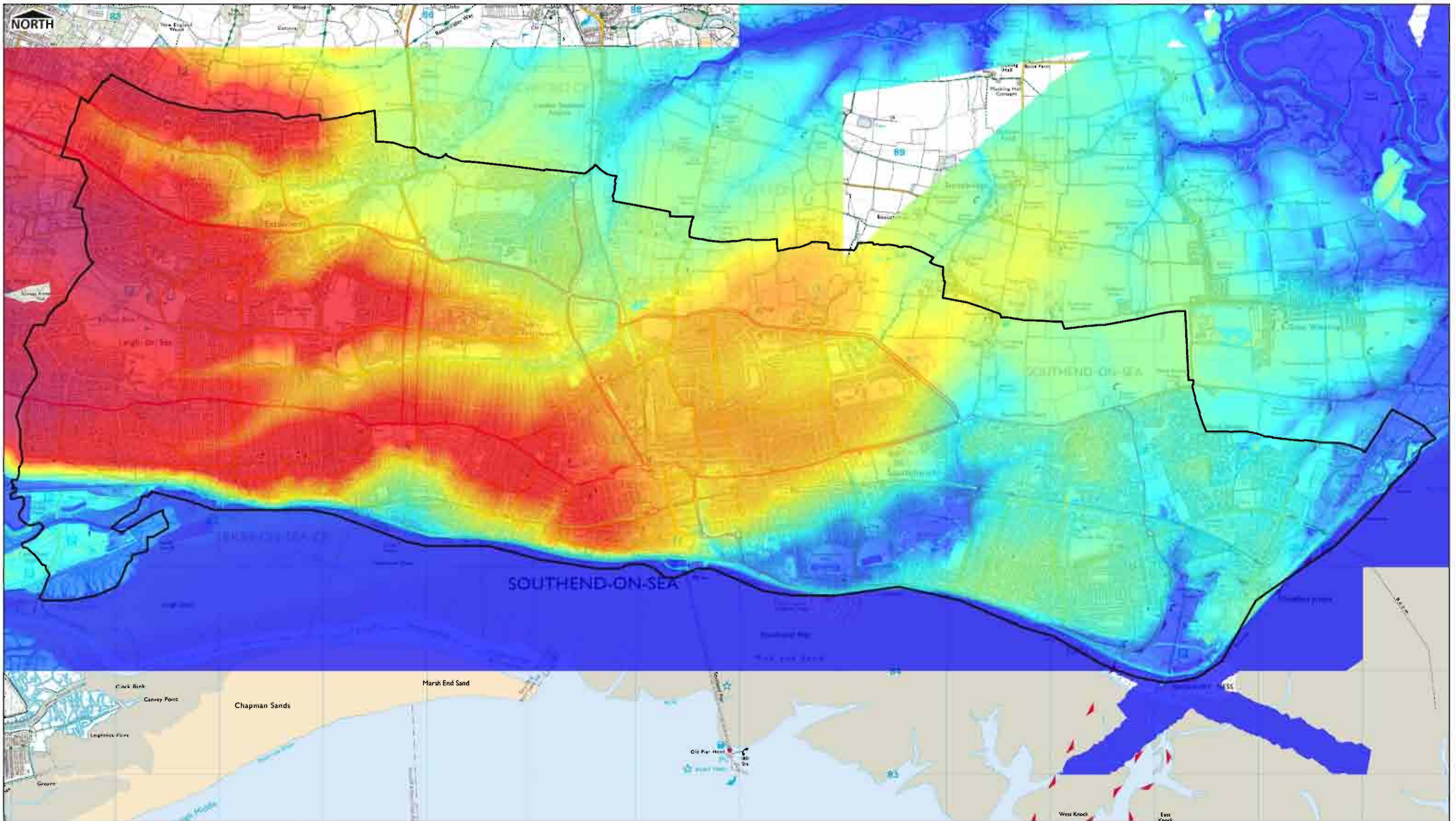
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**FIGURE 2**



**FIGURE 3 - TOPOGRAPHY (LIDAR)**

Elevation [m AOD]: — Southend Boundary

LEGEND



**LEVEL II STRATEGIC FLOOD RISK ASSESSMENT** 

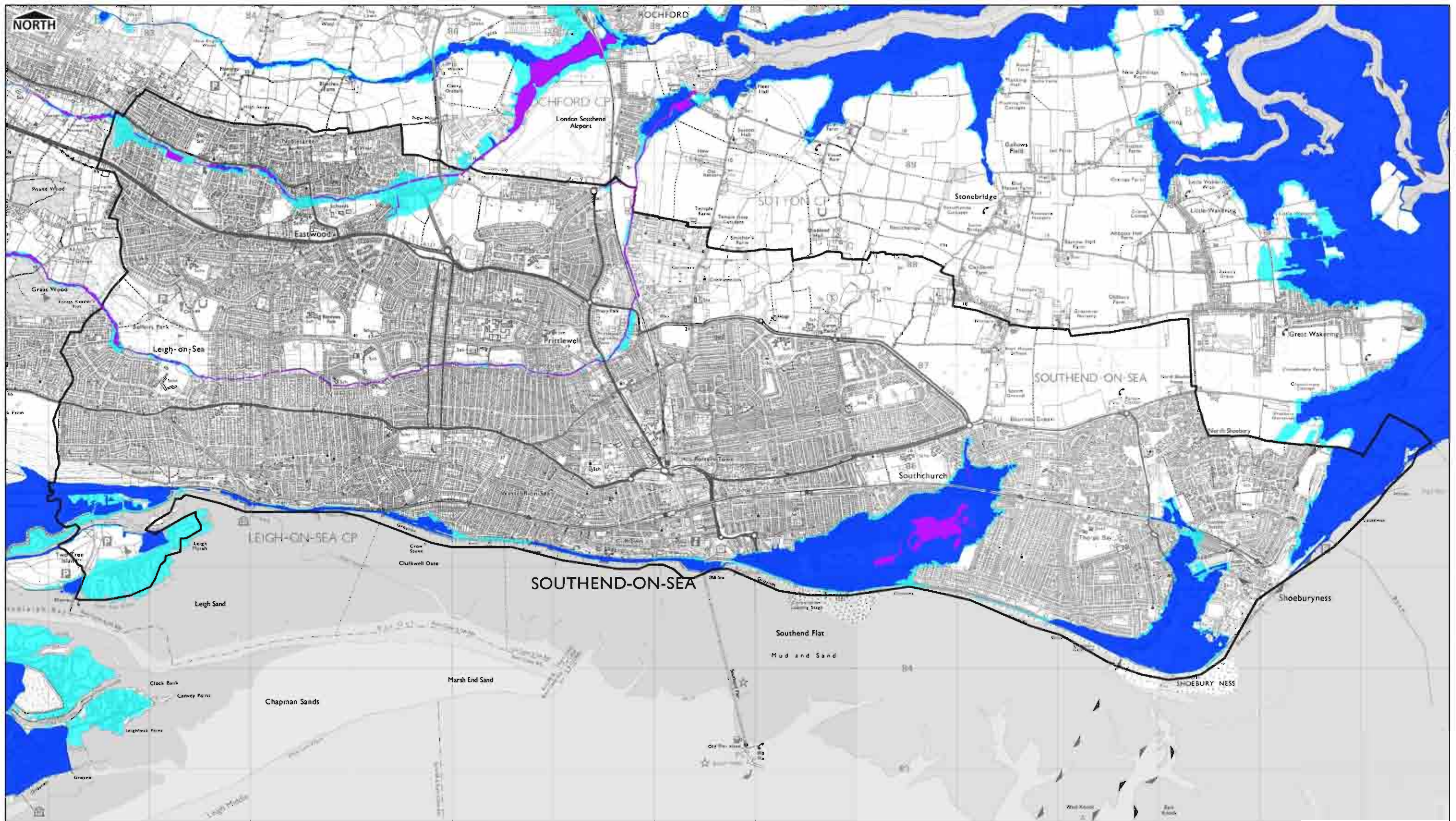
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**FIGURE 3**



**FIGURE 4 - ENVIRONMENT AGENCY FLOOD ZONES**

LEGEND	
	Administrative Boundary
	EA Flood Zone 3a
	Modelled (Fluvial) Flood Zone 3b
	EA Flood Zone 2

**LEVEL I STRATEGIC  
FLOOD RISK ASSESSMENT**



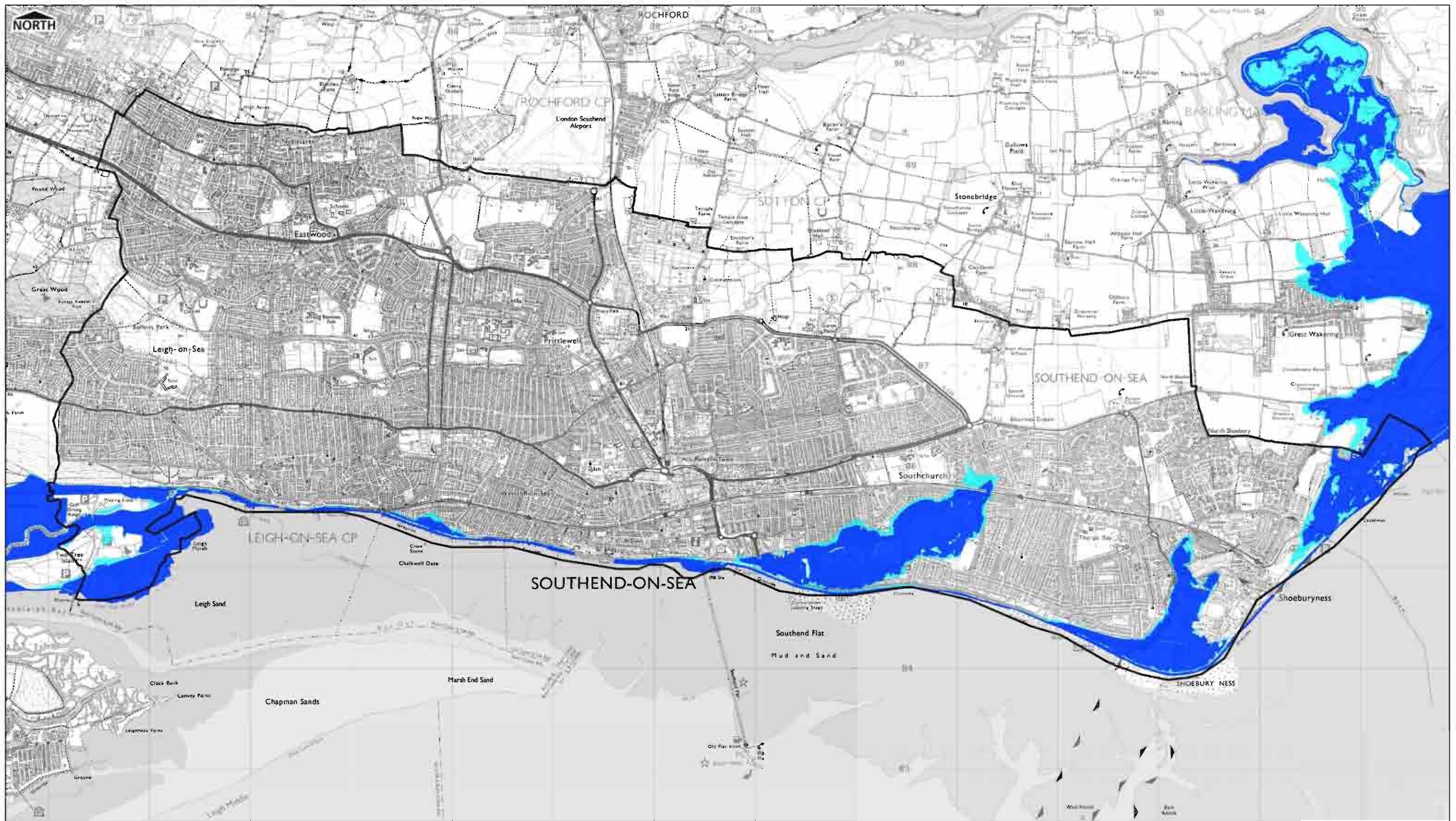
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**FIGURE 4**



**FIGURE 5 - MODELLED PRESENT DAY (2010) FLOOD ZONES (OVERTOPPING ONLY)**

**LEGEND**

	Administrative Boundary		EA Flood Zone 3a		
			EA Flood Zone 2		

This figure shows outputs related to tidal modelling produced as part of Southend-on-Sea SFRA. Therefore fluvial outlines have not been included.

**LEVEL I STRATEGIC  
FLOOD RISK ASSESSMENT**



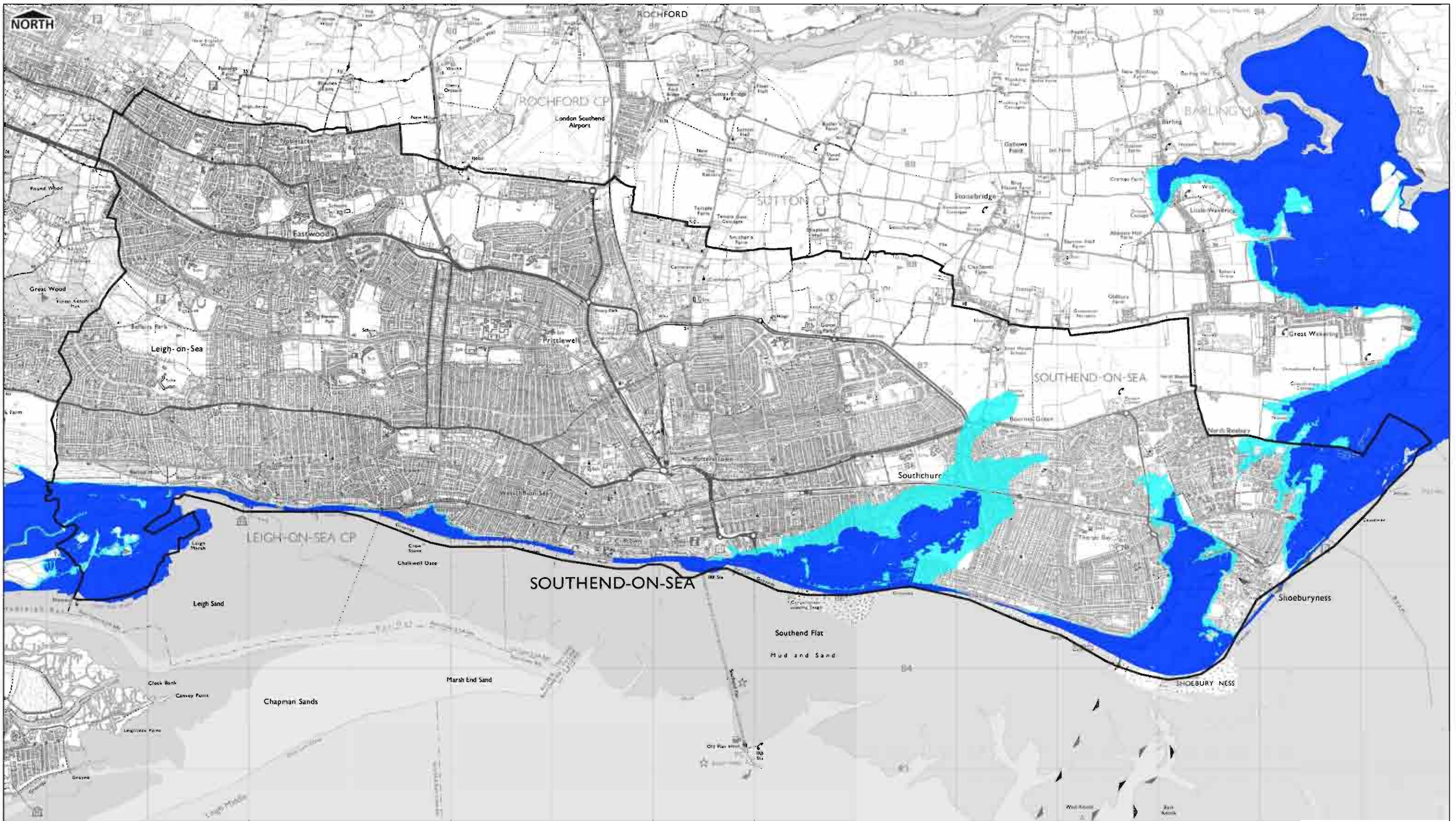
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**FIGURE 5**



**FIGURE 6 - MODELLED CLIMATE CHANGE (2110) FLOOD ZONES (OVERTOPPING ONLY)**

**LEGEND**

- Administrative Boundary
- EA Flood Zone 3a
- EA Flood Zone 2

This figure shows outputs related to tidal modelling produced as part of Southend-on-Sea SFRA. Therefore fluvial climate change outlines have not been included.

**LEVEL I STRATEGIC FLOOD RISK ASSESSMENT**



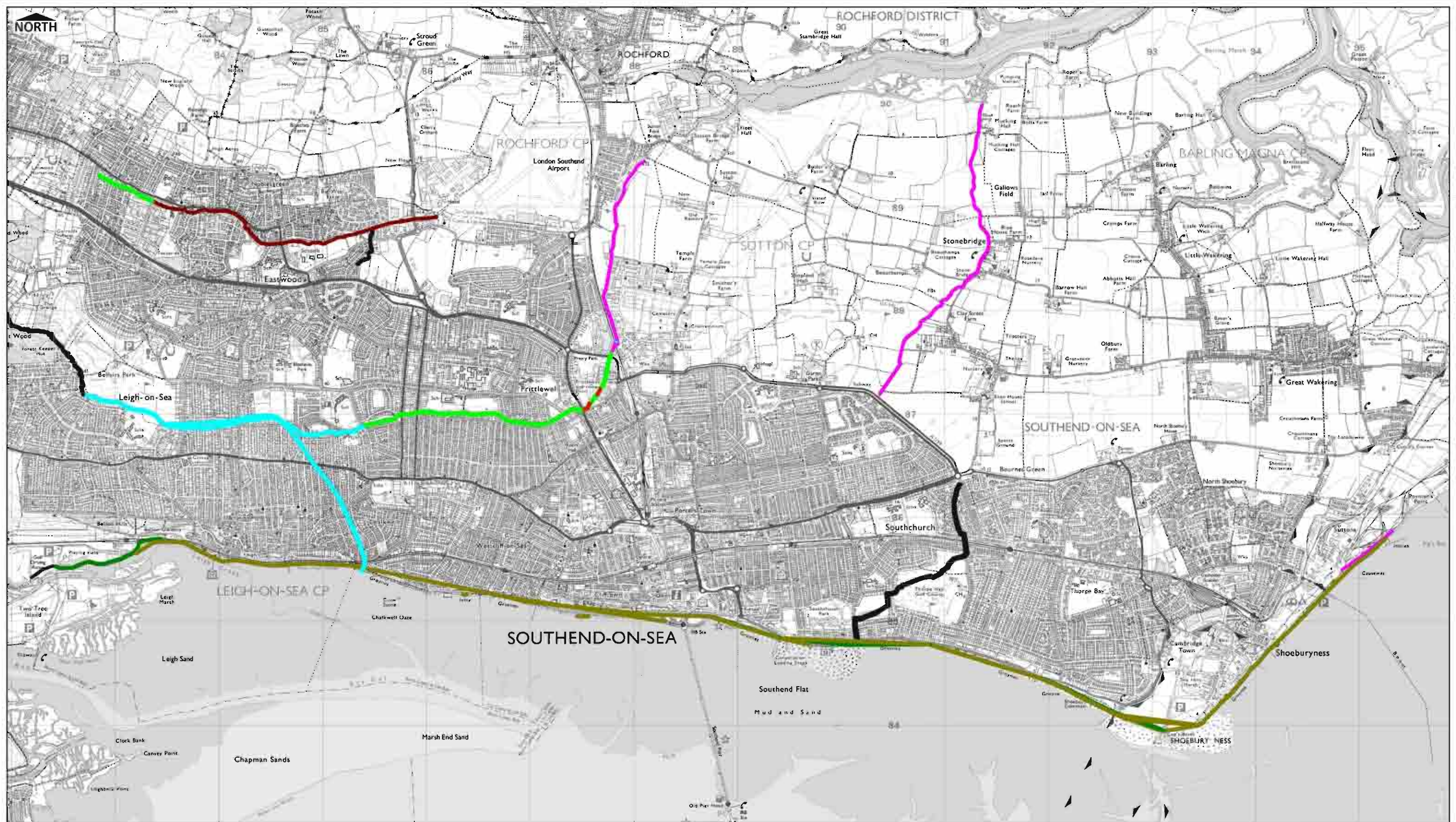
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**FIGURE 6**



**FIGURE 7 - NFCDD DEFENCE DESIGN STANDARD (YEARS)**

LEGEND Southend by DesignStandard

1,000	17
100	10
99	5
50	no data

**LEVEL I STRATEGIC  
FLOOD RISK ASSESSMENT**



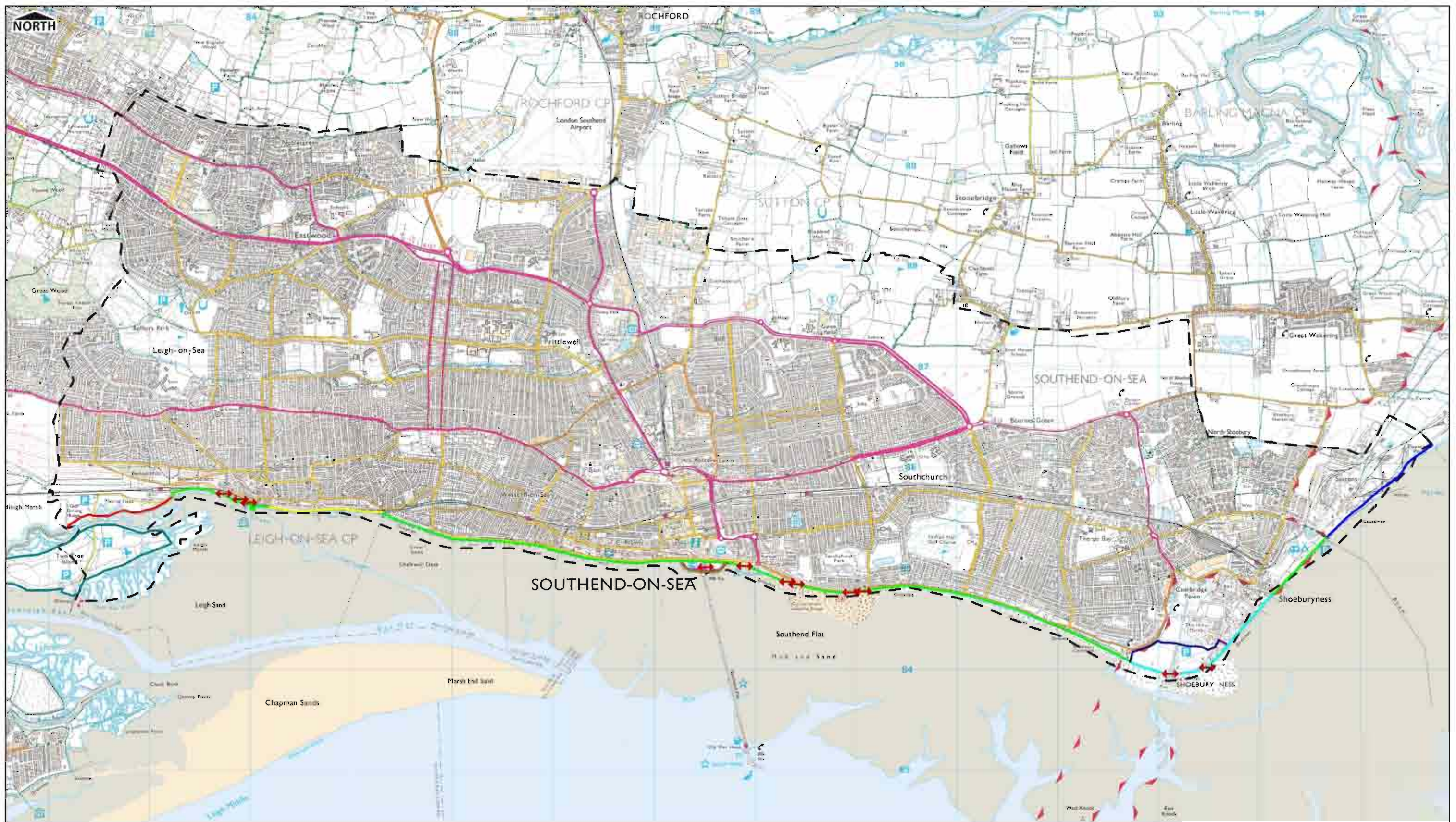
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**FIGURE 7**



**FIGURE 8 - SEA DEFENCE OWNERSHIP AND LOCATION OF FLOOD GATES**

- LEGEND Sea\_defences\_Ownership by Responsibility\_code
- SBC (Link between secondary bund and main defence - high ground)
  - SBC (Secondary Bund)
  - SBC (Two Tree Island)
  - SBC (Revetment)
  - Adventure Island
  - Ministry of Defence
  - Developer (Gladedale) [S10f
  - SBC
  - Environment Agency
  - Rail Track
  - ↔ Flood Gates
  - Southend-on-Sea boundary

**LEVEL I STRATEGIC FLOOD RISK ASSESSMENT**



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**FIGURE 8**