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LEGEND

RBG Boundary

Watercourses

- Main Rivers- Surface
- Main Rivers-Culverted
- Ordinary Watercourse-Surface
- Ordinary Watercourse-Culverted

Flood Hazard Rating

- Low (Caution)
- Moderate (Danger for some)
- Significant (Danger for most)
- Extreme (Danger for all)

Flood Defences

Level 2 Sites

Notes

As part of the Environment Agency's programme of flood risk modelling studies, two breach modelling studies have been completed along Thames tidal Frontage up and downstream of the Thames Barrier.

The Thames Tidal Upriver Breach Inundation Assessment (May 2017) simulates breach events upstream of the Thames Barrier. In this location, return periods cannot be applied to water levels in the same manner as they can downstream of the Barrier, as water levels are a function of the maximum tide level allowed through the Thames Barrier, as defined by the barrier closure rule / matrix. As a result, a Maximum Likely Water Level (MLWL) is applied and scenarios have been simulated for the MLWL for 2100.

The Thames Estuary Breach Assessment, Thames Barrier to Gravesend and Linford (Akins May 2018) has been used to determine the risk downstream of the Barrier. Results for the 0.5% and 0.1% Annual Exceedance Probability (AEP) tidal flood events including climate change for the year 2115 have been mapped.

As part of both of these studies, the results from the individual breach scenarios have been combined to generate single flood extent, depth and hazard outputs covering each of the study areas.

Flood hazard mapping categorises the danger to people for different combinations of flood water depth and velocity. The derivation of these categories is based on the methodology set out by Defra in Flood Risks to People FD2320 using the following equation: Flood Hazard Rating = $(v+0.5)^D + DF$ Where v = velocity (m/s), D = depth (m), DF = debris factor.

This map is intended to provide a strategic overview of the residual risk of tidal flooding and should not be used to assess flood risk for individual properties.

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Revision Details		Suffix	
Purpose of Issue		VERSION 2	
Client		ROYAL BOROUGH OF GREENWICH	
Project Title		RB GREENWICH LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT	
Drawing Title		DOWNRIVER BREACH ASSESSMENT - MAXIMUM HAZARD RATING (0.1% AEP 2115)	
Drawn	Checked	Approved	Date
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