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THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

- Borough Boundary
- Main River (open)
- Main River (culverted)
- Ordinary Watercourse (open)
- Ordinary Watercourse (culverted)

Flood Hazard Rating

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

Flood Defences

- Flood Defences
- Modelled Breach Locations

Notes

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

As part of the Environment Agency rolling programme of flood risk modelling studies, tidal breach modelling has been undertaken for the River Thames for a number of breach locations along the Thames tidal frontage (Thames Embayment Modelling, CH2M-Hill February 2015). One of the outputs of this modelling is flood hazard mapping which 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

The study area for this Level 1 SFRA is upstream of the Thames Barrier. In this location, return periods cannot be applied to water levels in the same way as they can downstream of the barrier, as they are a function of the maximum tide level allowed through the barrier, as defined by the barrier closure rule / matrix. As a result, a Maximum Likely Water Level (MLWL) is applied. Upstream of the barrier, the following modelled scenarios were simulated:

- Maximum Likely Water Level for the year 2014
- Maximum Likely Water Level for the year 2065
- Maximum Likely Water Level for the year 2100

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	By	Check	Date	Suffix
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Purpose of Issue
FINAL

Client



Project Title
**LONDON BOROUGHS OF CROYDON, SUTTON, MERTON AND WANDSWORTH
LEVEL 1 STRATEGIC FLOOD
RISK ASSESSMENT**

Drawing Title
**TIDAL BREACH MODELLING
MLWL FOR THE YEAR 2065**

Drawn	Checked	Approved	Date
SL	EG	JR	23/10/2015

URS Internal Project No.
47072816

Scale at A3
1:20,000

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Drawing Number	Rev
FIGURE 5.8	2