Note:
1) In accordance with the National Planning Practice Guidance existing solid buildings within Flood Zone 3b (functional floodplain) should be treated as being within Flood Zone 3a. Additionally areas identified as FZ3b but protected by existing defences or infrastructure should also be treated as FZ3a.
2) Flood Zone 3b has been based on two sources: the 5% AEP flood extent outlines from the Black’s Brook, BIM and Mardyke models or the ‘High’ NaFRA classification for Emerson Park Stream, Paines Brook and Weald Brook.
Note: The data used to depict the flood depths is the data from Jacobs' detailed modelling of the River Beam and River Ingrebourne for the 1% (1 in 100) annual chance event.
Notes:
This figure indicates the impact of a breach in the Thames Tidal Defences. This was modelled as part of the Environment Agency’s TE2100 project. The flood extent and hazard rating is the result of a 0.5% (1 in 200) annual probability tidal event at breach locations BARK4 and BARK5.

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### Classification | Degree of hazard | Description
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Low | Dangerous for some (e.g. children) | Flood zone with shallow flooding or deep standing water
Moderate | Dangerous for some (e.g. children) | Danger flood zone with deep or fast flowing water
Significant | Dangerous for most | Danger flood zone with deep fast flowing water
Extreme | Dangerous for all | Extreme danger. Flood zone with deep fast flowing water.
Notes:
This figure indicates the impact of a
breach in the Thames Tidal Defences. This was modelled as part of the Environment Agency’s TE2100 project. The flood depth is the result of a 0.5% (1 in 200) annual probability tidal event at breach locations BARK4 and BARK5.
Notes:
This figure indicates the impact of a breach in the Thames Tidal Defences. This was modelled as part of the Environment Agency’s TE2100 project. The flood level is the result of a 0.5% (1 in 200) annual probability tidal event at breach locations BARK4 and BARK5.
Notes:
This figure indicates the impact of a breach in the Thames Tidal Defences. This was modelled as part of the Environment Agency’s TE2100 project. The maximum flood velocity is the result of a 0.5% (1 in 200) annual probability tidal event at breach locations BARK4 and BARK5.

Key
Borough Boundary
Strategic Development Area
Main Rivers
Maximum Velocity (m/s)
0 - 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.0
> 1.0

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Not to Scale
21/11/2016
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Notes:
1) Areas Benefitting from Defences (ABDs) are based on the area that would be flooded from a 0.5% (1 in 200) annual chance tidal event or a 1% (1 in 100) fluvial event.
Notes:
The updated Flood Map for Surface Water (uFMfSW) shows the flooding that takes place from the 'surface runoff' generated by rainwater (including snow and other precipitation) which:
1) is on the surface of the ground (whether or not it is moving), and
2) has not yet entered a watercourse, drainage system or public sewer.
Note: Sewer flooding records show no internal or external flooding to properties within the Growth Area.