



TE2100 2008 levels:

Levels downriver of the Thames Barrier are 0.1% AEP (1 in 1000) and levels upriver are the highest levels permitted by the Thames Barrier, described as the Maximum Likely Water Levels (MLWLs). The defence levels (left defence, right defence) are the minimum levels to which the defences should be built.

| Location | Node | Easting | Northing | Extreme water level (m) | Left defence (m) | Right defence (m) | Allow for future defence raising to a level of... | |
|----------|------|---------|----------|-------------------------|------------------|-------------------|---|----------------|
| | | | | | | | Left Bank (m) | Right Bank (m) |
| | 2.34 | 531841 | 180694 | 4.82 | 5.41 | 5.41 | 6.35 | 6.35 |
| | 2.35 | 532671 | 180524 | 4.81 | 5.41 | 5.41 | 6.35 | 6.35 |
| | | | | 4.81 | 5.41 | 5.41 | 6.35 | 6.35 |
| | | | | 4.81 | 5.28 | 5.28 | 6.35 | 6.35 |
| Tower | 2.36 | 533437 | 180397 | 4.80 | 5.28 | 5.28 | 6.35 | 6.35 |
| | 2.37 | 534519 | 179917 | 4.78 | 5.28 | 5.28 | 6.35 | 6.35 |
| | 2.38 | 535264 | 180141 | 4.76 | 5.28 | 5.28 | 6.35 | 6.35 |
| | | | | 4.75 | 5.28 | 5.28 | 6.35 | 6.35 |
| | | | | 4.75 | 5.23 | 5.23 | 6.20 | 6.20 |
| | 2.39 | 536040 | 180673 | 4.74 | 5.23 | 5.23 | 6.20 | 6.20 |

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TE2100 climate change levels:

The water levels in west London are lower than the current day extreme levels because they do not take into account extreme fluvial events; they are tidal only levels.

| Location | Node | Easting | Northing | 2065 to 2100 | | 2100 | |
|----------|------|---------|----------|--------------------|----------------------------|--------------------|----------------------------|
| | | | | Design water level | Defence level (both banks) | Design water level | Defence level (both banks) |
| | 2.34 | 531841 | 180694 | 5.31 | 5.85 | 5.85 | 6.35 |
| | 2.35 | 532671 | 180524 | 5.31 | 5.85 | 5.78 | 6.35 |
| Tower | 2.36 | 533437 | 180396 | 5.30 | 5.85 | 5.77 | 6.35 |
| | 2.37 | 534519 | 179917 | 5.27 | 5.85 | 5.76 | 6.35 |
| | 2.38 | 535264 | 180141 | 5.27 | 5.85 | 5.75 | 6.35 |
| | | | | 5.26 | 5.85 | 5.74 | 6.35 |
| | | | | 5.26 | 5.70 | 5.74 | 6.20 |
| | 2.39 | 536040 | 180673 | 5.25 | 5.70 | 5.74 | 6.20 |

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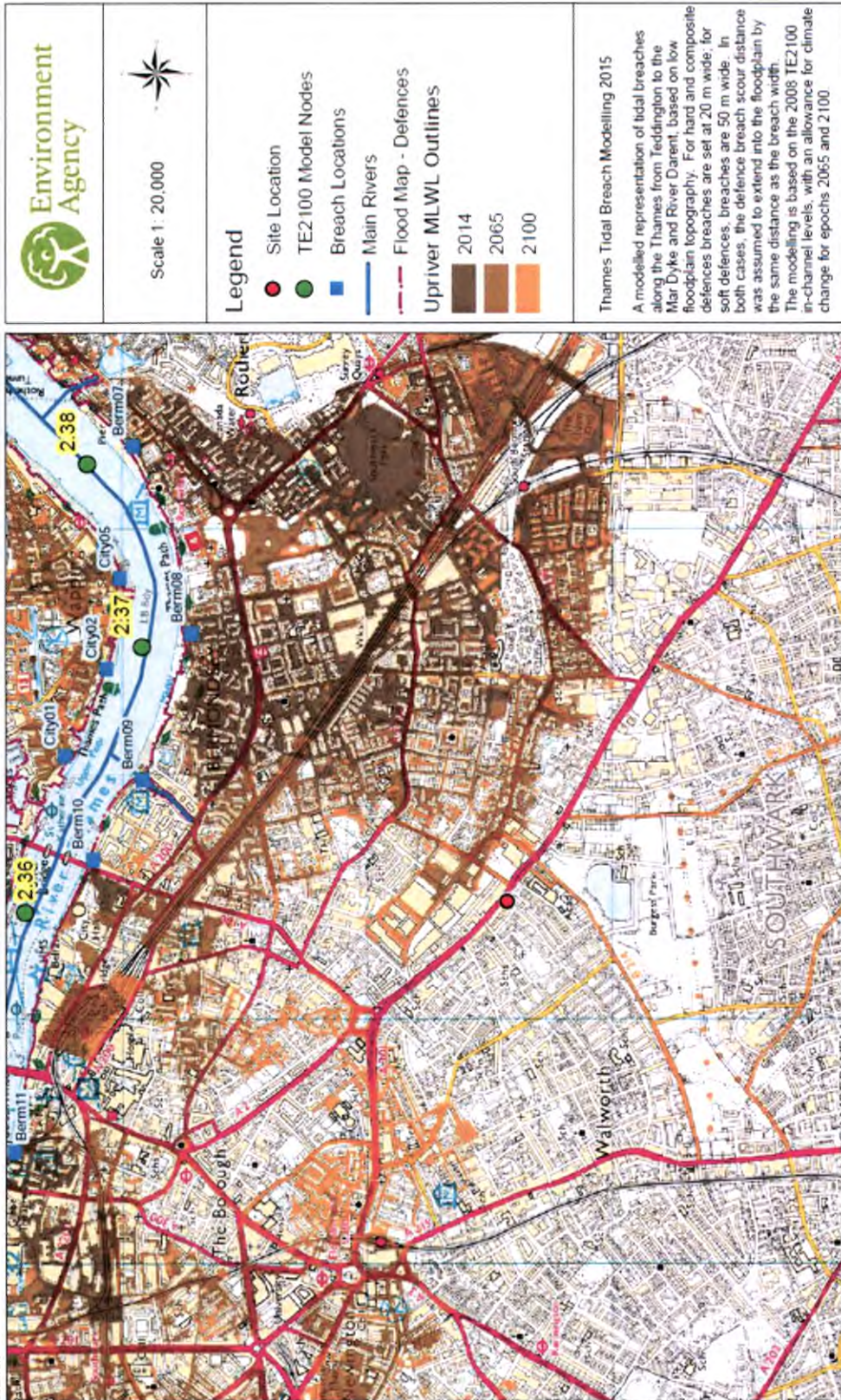


Thames Tidal Breach Modelling

We have undertaken breach modelling through the Thames Tidal Breach Modelling Study 2015 completed by CH2M HILL in March 2015. However this site is not located within the outlines of the models due to the considerable distance of the site from the Thames. Therefore no data from the breach models is available for this site. We recommend using Upstream Inundation Model levels instead.

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Breach Modelling Map centred on SE1 5UB created 16 September 2016 [Ref: KSL 23373 JB]





Thames Tidal Upstream Inundation Modelling

The enclosed map shows results for the Thames Tidal Upstream Inundation Modelling Study 2015 completed by CH2M HILL in March 2015.

Upriver of the Thames Barrier, there is no return period for modelled levels as the levels are controlled by barrier closures. Therefore 2014, 2065 and 2100 epochs were modelled on that basis.

Using the domains updated as part of the Thames Tidal Breach Modelling Study 2015 completed by CH2M HILL in March 2015, the project generated outputs for water depths, velocity, levels and hazard. However the scenario modelled is that the Thames Barrier is operational but all linear defences have been removed. It uses the TE2100 in-channel levels calculated in 2008 and only provides data for embayments upriver of the Thames Barrier.

| Point | National Grid Reference | | Modelled levels in mAODN | | |
|-------|-------------------------|----------|--------------------------|------|------|
| | Easting | Northing | 2014 | 2065 | 2100 |
| 1 | 533475 | 178356 | Nil return | 3.20 | 3.73 |
| 2 | 533521 | 178414 | Nil return | 3.20 | 3.73 |
| 3 | 533490 | 178446 | Nil return | 3.20 | 3.73 |
| 4 | 533449 | 178401 | Nil return | 3.20 | 3.73 |
| 5 | 533416 | 178422 | Nil return | 3.20 | 3.73 |
| 6 | 533451 | 178484 | Nil return | 3.20 | 3.73 |

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