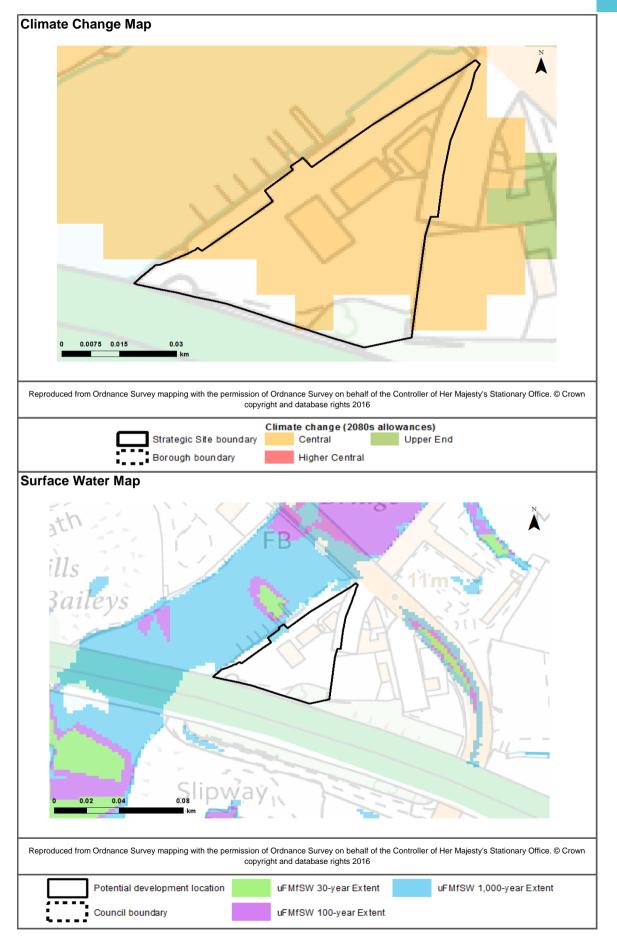
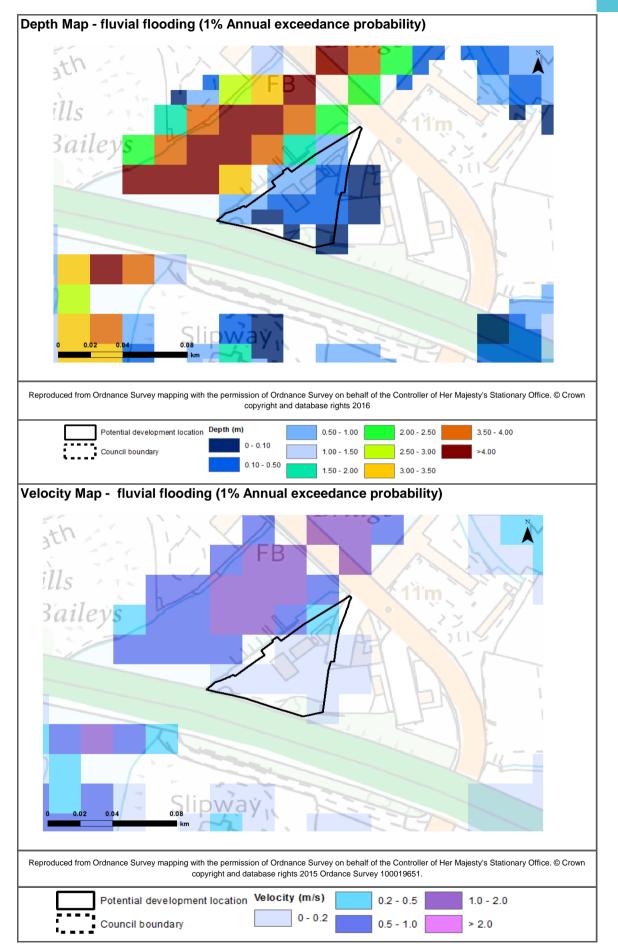


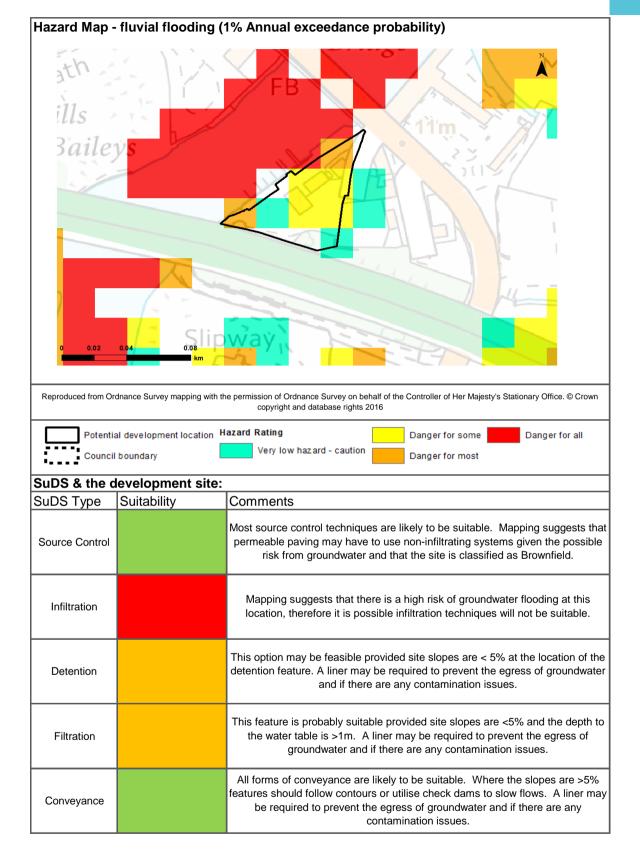
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Drainage strategies should demonstrate that an appropriate number of treatment stages have been delivered. This depends on the factors such as the type of development, primary source of runoff and likelihood of contamination. Guidance should be sought from the LLFA and other guidance documents such as the CIRIA SuDS Manual (C753).

Flood Defences:

There are no flood defences at this site.

Emergency Planning:

This site is partially covered by the Huntingdon and Hartford Flood Warning Area

Access & Egress:

The main access road for the site, the B1044, is affected by fluvial flooding from the 5% AEP event north of the site. The southwards route is unaffected. However, the south route is affected by surface water flooding with a noticeable area of ponding north of where the B1044 goes under the A14.

Climate Change:

The floodplains of the River Great Ouse appear to be fairly constrained within this area - there is not much difference in extent between Flood Zone 3 and the 1% AEP event with the 2080s climate change allowances applied. Therefore, it is likely that climate change will not have a significant impact on the extent of flooding from these watercourses. It may, however, increase the depth of flooding in the area affected.

Climate change may also increase the extent, depth and frequency of surface water flooding in the future.

Implications for Development:

Given the majority of the site is within the Functional Floodplain the type and amount of development within the site will be restricted. Given the majority of the site is within flood zone 3 flood compensation will be required on a level for level volume for volume basis for any proposed loss of floodplain. Therefore land within the vicinity and outside the proposed site will be required for flood compensation, See section 8.3.4 of SFRA. Prospects for effective mitigation would need to be established before taking the site forward

Safe access and egress is potentially an issue as the route from the site is affected by fluvial flooding to the north and surface water flooding to the south.

Broadscale assessment of suitable SuDS has indicated a number of different types may be possible; however, given the size of the site and the proportion of the site at risk from flooding, the type of SuDS system used may be influenced by amount of land available; depending on the system used there may be an impact on the amount of land available for development and the cost of development.

The site is covered by the Environment Agency's Flood Warning Service.

The site is not known to benefit from any flood defences. Given the size and location of the site, it is unlikely the site itself could be used to implement strategic solutions to alleviate flood risk elsewhere in the catchment.

Guidance for Developers:

Mapping in this table is based on results from the Environment Agency's Downstream Ouse 1D-2D model.

At the planning application stage, a site-specific flood risk assessment will be required if any development is located within Flood Zones 2 or 3. Where a site specific FRA has produced modelling outlines which differ from the Flood Map for Planning then a full evidence based review would be required; where this is acceptable to the EA then amendments to the Flood Map for Planning may take place

Resilience measures will be required if buildings are situated in the flood risk area.

The peak flows on the Great Ouse should be considered when considering drainage.

Assessment for runoff should include allowance for climate change effects.

New or re-development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

Onsite attenuation schemes would need to be tested against the hydrographs of the Great Ouse to ensure flows are not exacerbated downstream within the catchment.

Safe access and egress will need to be demonstrated.

New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- o Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.

Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.

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