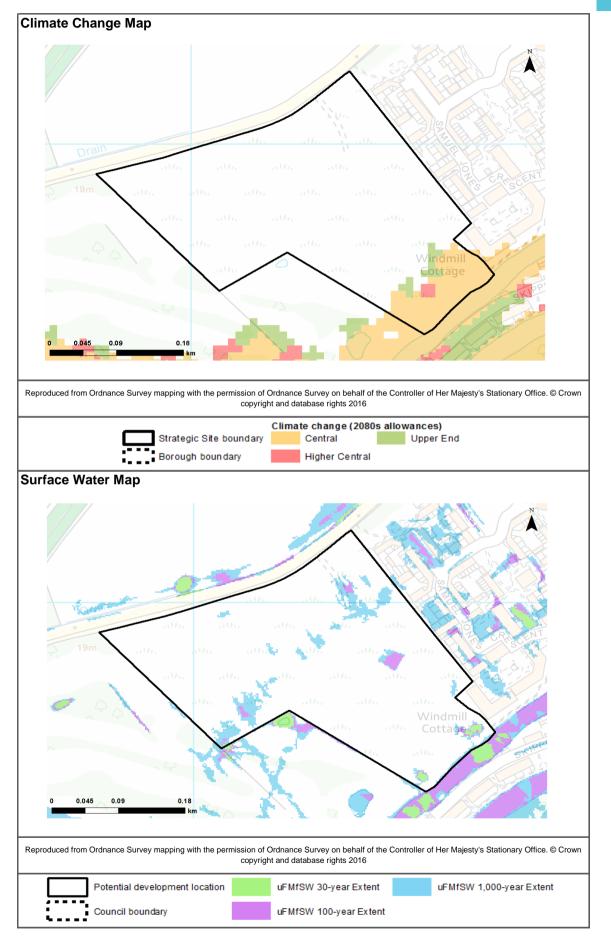
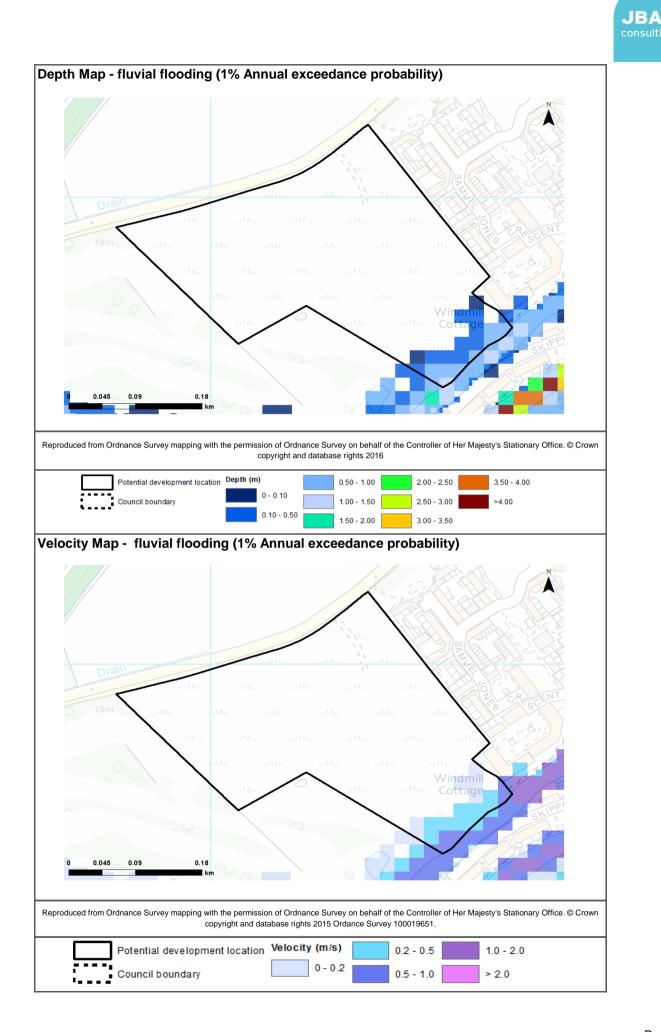


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Drainage strategies should demonstrate that an appropriate number of treatment stages have been delivered. This depends on the factors such as the type of development, primary source of runoff and likelihood of contamination. Guidance should be sought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

The site is located within a Source Protection Zone. As such, infiltration techniques should only be used where there are suitable levels of treatment, although it is possible that infiltration may not be permitted. Proposed SuDS should be discussed with relevant stakeholders (LPA, LLFA and EA) at an early stage to understand possible constraints

# Flood Defences:

There are no flood defences at this site.

# Emergency Planning:

This site is partially covered by the River Great Ouse from Tempsford to Offord Flood Warning Area.

# Access & Egress:

The main access and egress route is unaffected by fluvial or surface water flooding.

#### Climate Change:

The floodplain appears to be fairly constrained within this area - modelling shows there is not much increase in the extent of the 1% AEP when climate change allowances are applied. However, flood depths may increase. Climate change may also increase the extent, depth and frequency of surface water flooding in the future.

## Implications for Development:

Use of the Sequential Approach means, given the size of the site, development can be placed away from Flood Zones 2 and 3, with the small area affected by Flood Zone 2 and 3 left undeveloped.

Safe access and egress is not an issue for this site.

Broadscale assessment of suitable SuDS has indicated a number of different types may be possible; given the size of the site, the type of SuDS system used is less likely to be limited by the amount of land available for development. The site is partially covered by the Environment Agency's Flood Warning Service. However, if development is placed outside of the Flood Zones, then access to the Flood Warning Service would not be required.

The site is not known to benefit from any flood defences. Given the size and location of the site, it is unlikely the site could be used to implement strategic solutions to alleviate flood risk elsewhere in the Great Ouse catchment given the land requirement that any strategic storage solution would require.

## **Guidance for Developers:**

Mapping in this table is based on results from the Environment Agency's Upstream 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. Other sources of flooding should also be considered. 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 River 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 River Great Ouse to ensure flows are not exacerbated downstream within the catchment.

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

- Reducing volume and rate of runoi
- 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 and consider using Flood Zones 2 and 3 as public open space.

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

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