



# Huntingdonshire Level 2 Strategic Flood Risk Assessment Site Summary

Site CfS23-24322

## Final Report

Prepared for  
Huntingdonshire District  
Council

Date  
November 2025

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# Contract

|                     |                                                                 |
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This report describes work commissioned by Huntingdonshire District Council by an instruction via email dated 21 July 2025. The Client's representative for the contract was Frances Schulz of Huntingdonshire District Council. Amy Ewens of JBA Consulting carried out this work.

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The methodology adopted and the sources of information used by JBA in providing its services are outlined in this Report. The work described in this Report was undertaken between 21 July 2025 and 6 November 2025 and is based on the conditions encountered and the information available during the said period. The scope of this Report and the services are accordingly factually limited by these circumstances.

The conclusions and recommendations contained in this Report are based upon information provided by others and upon the assumption that all relevant information has been provided by those parties from whom it has been requested and that such information is accurate.

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## Acknowledgements

We would like to thank the Environment Agency, Cambridgeshire County Council for their assistance with this work.

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# 1 Background

This is a Level 2 Strategic Flood Risk Assessment (SFRA) site screening report for Local Plan Site CfS23-24322. The content of this report assumes the reader has already consulted the 'HDC Level 1 SFRA' (2024) and read the 'HDC Level 2 SFRA Main Report' (2025) and is therefore familiar with the terminology used in this report.

## 1.1 Site CfS23-24322

- Location: Land to the South of High Street, Spaldwick
- Existing site use: Agricultural
- Existing site use vulnerability: Less vulnerable
- Proposed site use: Residential
- Proposed site use vulnerability: More vulnerable
- Site area (ha): 0.83
- Watercourse: Unnamed and unmodelled ordinary watercourse (tributary to Alconbury Brook main river)
- Environment Agency (EA) model: N/A
- Summary of requirements from Level 2 SFRA scoping stage:
  - Subject to the Exception Test as more vulnerable development proposed in Flood Zone 3a
  - Assessment of fluvial flood depths, velocities and hazards
  - Assessment of surface water flood extent, depths and hazards
  - Assessment of all other sources of flood risk

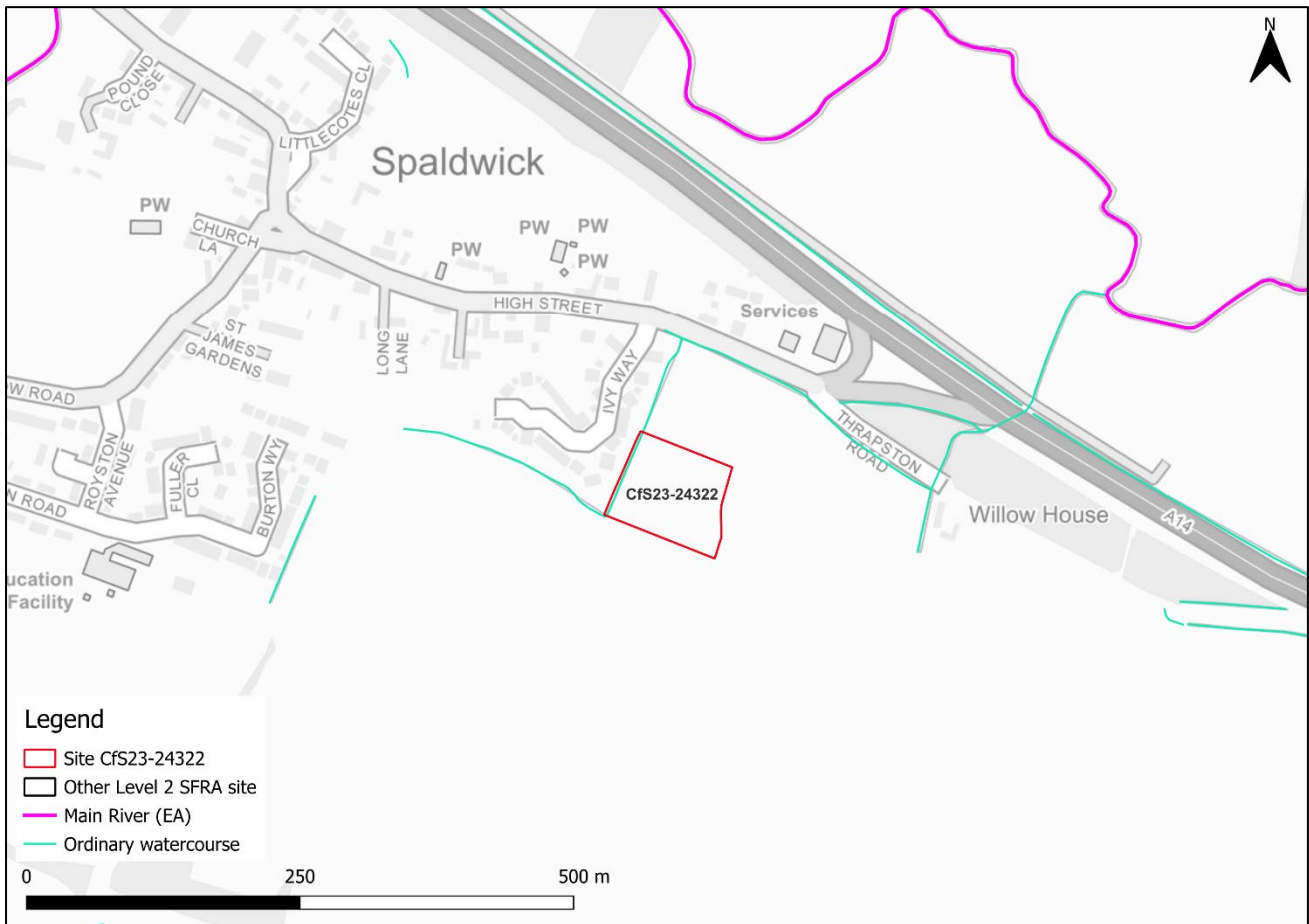


Figure 1-1: Existing site location boundary



Figure 1-2: Aerial photography

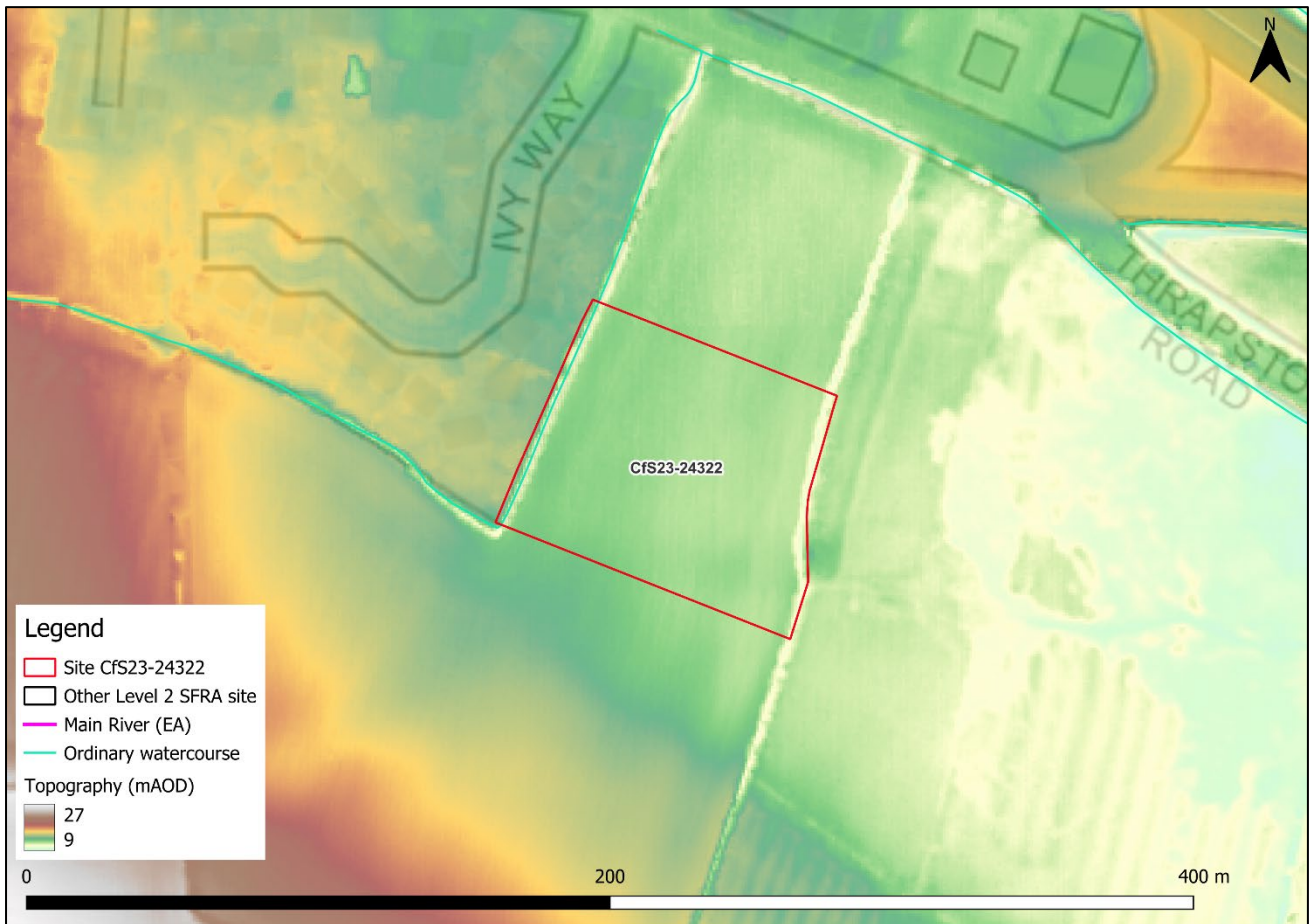


Figure 1-3: Topography

## 2 Flood risk from rivers and sea

### 2.1 Existing risk

#### 2.1.1 Flood Map for Planning and functional floodplain

Based on the EA's Flood Map for Planning (accessed July 2025) and Flood Zone 3b (functional floodplain), as updated in this Level 2 SFRA, the percentage areas of the site within each flood zone are stated in Table 2-1 and can be viewed on Figure 2-1. This version of the Flood Map for Planning does not consider flood defence infrastructure (Section 2.2) or the impacts of climate change (Section 2.3).

Approximately 45% of the site is located within Flood Zone 3a, a further 36% of the site is in Flood Zone 2. It is assumed the flood zones in this location are based on the EA's New National Model, therefore flood depth and hazard information are unavailable. The risk is fluvial.

Table 2-1: Existing flood risk based on percentage area of site at risk

| Flood Zone 1 (% area) | Flood Zone 2 (% area) | Flood Zone 3a (% area) | Flood Zone 3b (% area) |
|-----------------------|-----------------------|------------------------|------------------------|
| 19                    | 36                    | 45                     | 0                      |

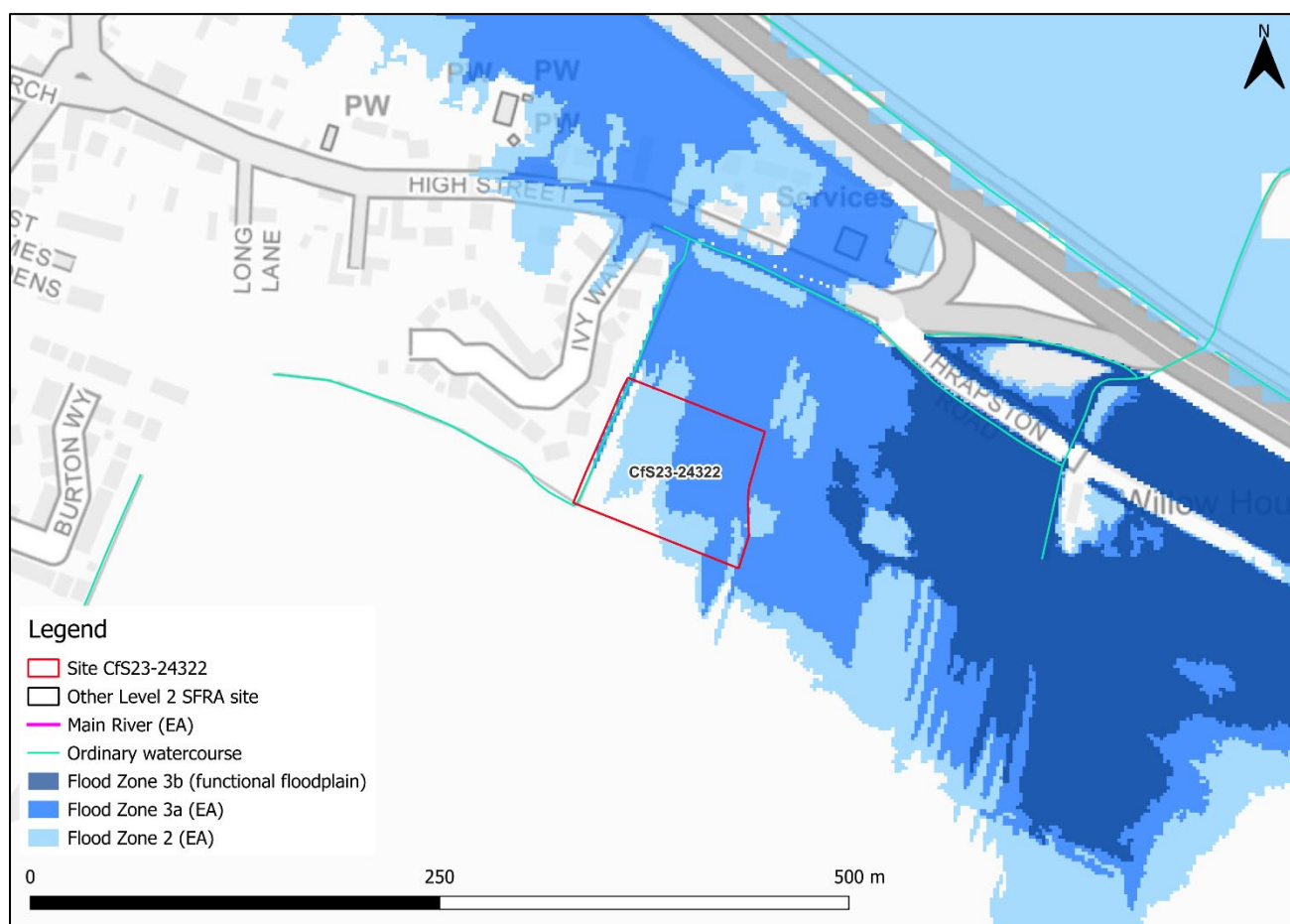


Figure 2-1: Existing risk

## 2.2 Flood risk management

### 2.2.1 Flood defences

The site does not benefit from any formal engineered flood defences, according to the EA's spatial flood defences dataset.

### 2.2.2 Working with Natural Processes

The EA's Working with Natural Processes (WwNP) dataset has been interrogated to identify opportunities for Natural Flood Management (NFM) to reduce flood risk to the site and surrounding areas. These areas are shown in Figure 2-2. Note, the WwNP mapping is broadscale and indicative, therefore further investigation will be required for any land shown to have potential for WwNP. Both within and upstream of the site, there is some potential for tree planting to reduce runoff downstream.

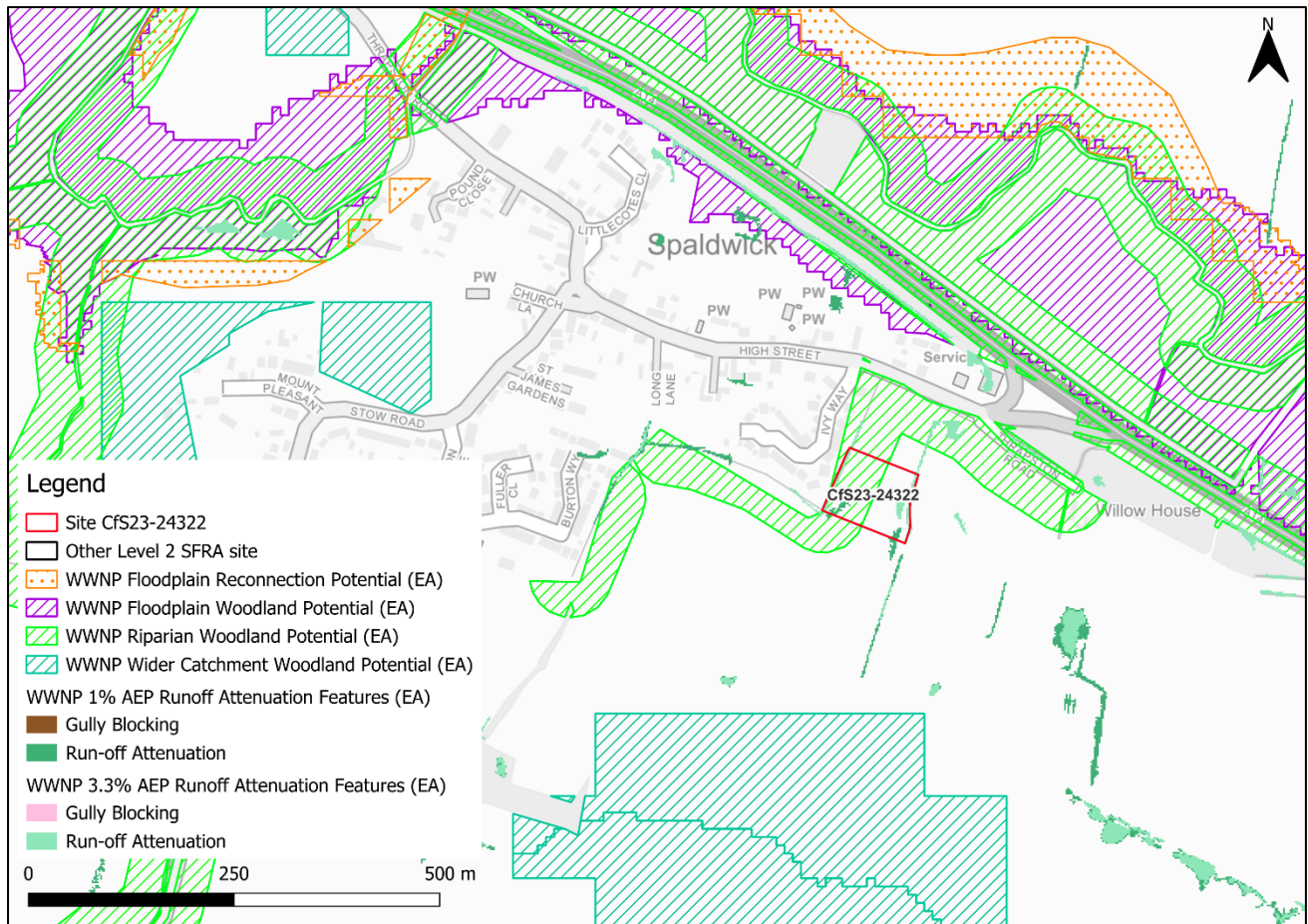


Figure 2-2: Natural Flood Management (NFM) potential mapping

## 2.3 Impacts from climate change

### 2.3.1 Fluvial

The EA's SFRA guidance states that SFRAs should assess the central allowance for less, more, highly vulnerable, and water compatible development. The higher central allowance should be assessed for essential infrastructure. However, there is no existing detailed model of the ordinary watercourse.

The impacts of climate change on flooding in this location have been modelled by the EA through the New National Model which models the central allowance (+19% on peak river flows for the Upper and Bedford Ouse Management Catchment EA management catchment) for the 3.3% AEP defended, 1% AEP defended and undefended, and 0.1% AEP defended and undefended fluvial events.

The EA's Flood Map for Planning shows that fluvial flood risk is not expected to significantly increase due to climate change (Figure 2-3).

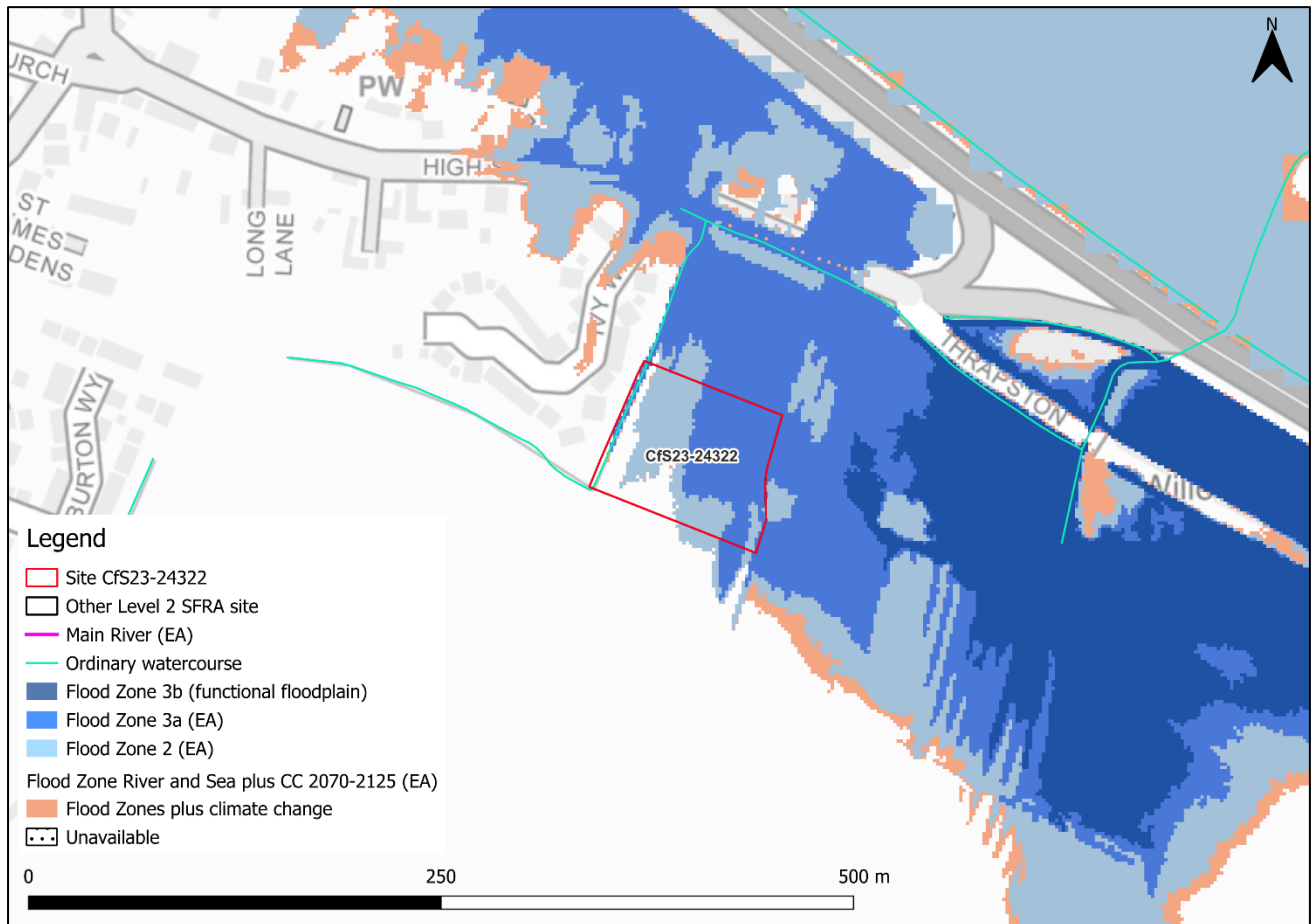


Figure 2-3 Flood Map for Planning 1% and 0.1% AEP undefended flood events +19% (central climate change allowance)

### 2.3.2 Tidal

The EA's Flood Map for Planning shows the site is not at risk from tidal climate change.

## 2.4 Historic flood incidents

The EA's Historic Flood Map (HFM) and Recorded Flood Outlines (RFO) datasets have been considered and mapped in Figure 2-4 which shows that the area to the north of the site was impacted during a flood event in April 1998. The cause of this flood event is unknown.

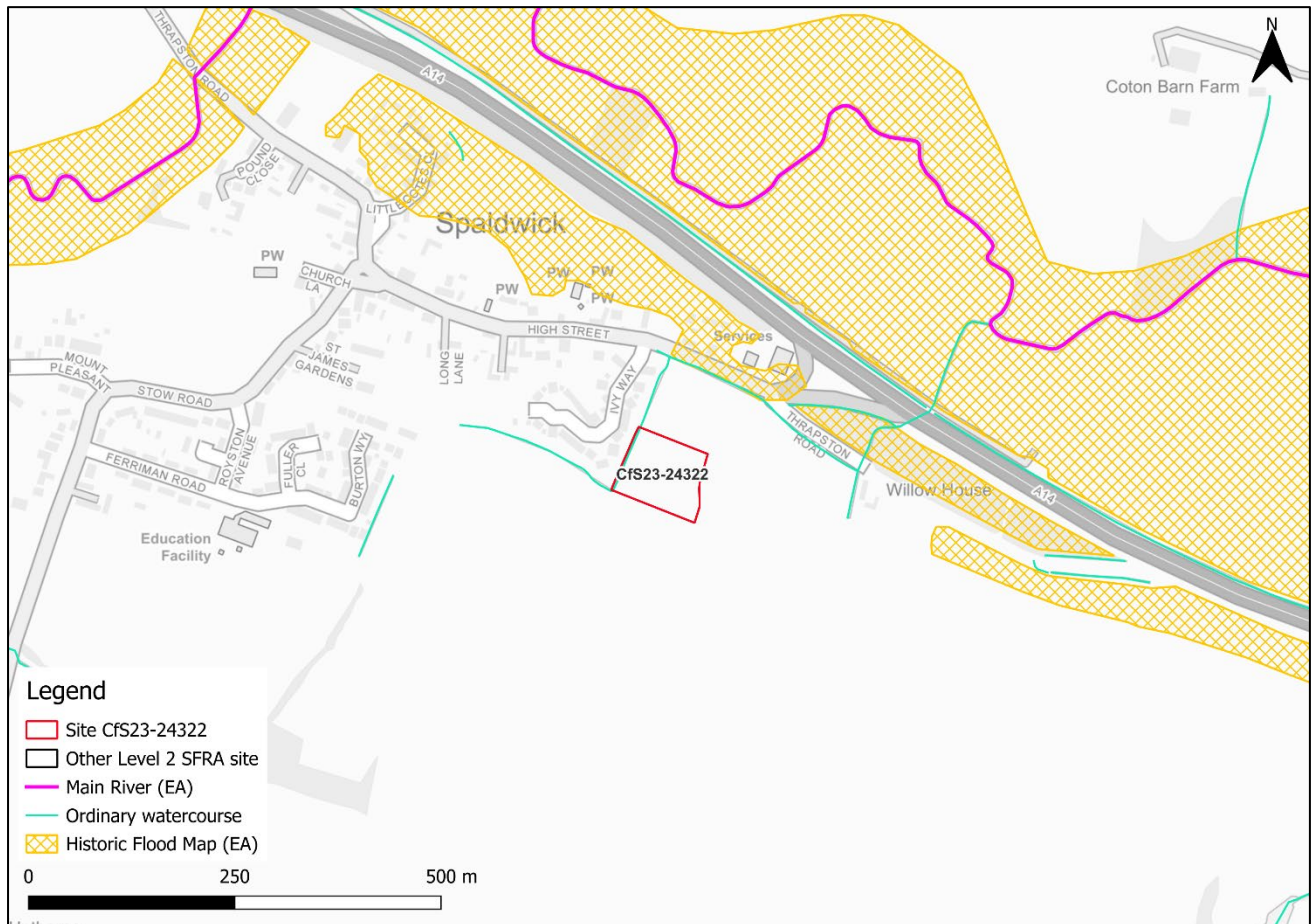


Figure 2-4: Recorded historic flood events onsite and around the site

## 2.5 Emergency planning

### 2.5.1 Flood warning

The EA operates a Flood Warning Service for properties located within a Flood Warning Area (FWA) for when a flood event is expected to occur. The site is not located within a FWA.

Flood alerts may be issued before a flood warning for properties located within a Flood Alert Area (FAA) to provide advance notice of the possibility of flooding. A flood alert may be issued when there is less confidence that flooding will occur in a FWA. The site is not located within a FAA.

### 2.5.2 Access and escape routes

Based on available information, there is no existing safe access and escape route from the site (Figure 2-5). However, safe access and escape could possibly be achieved during a flood event from the southwest of the site if suitable infrastructure is established.

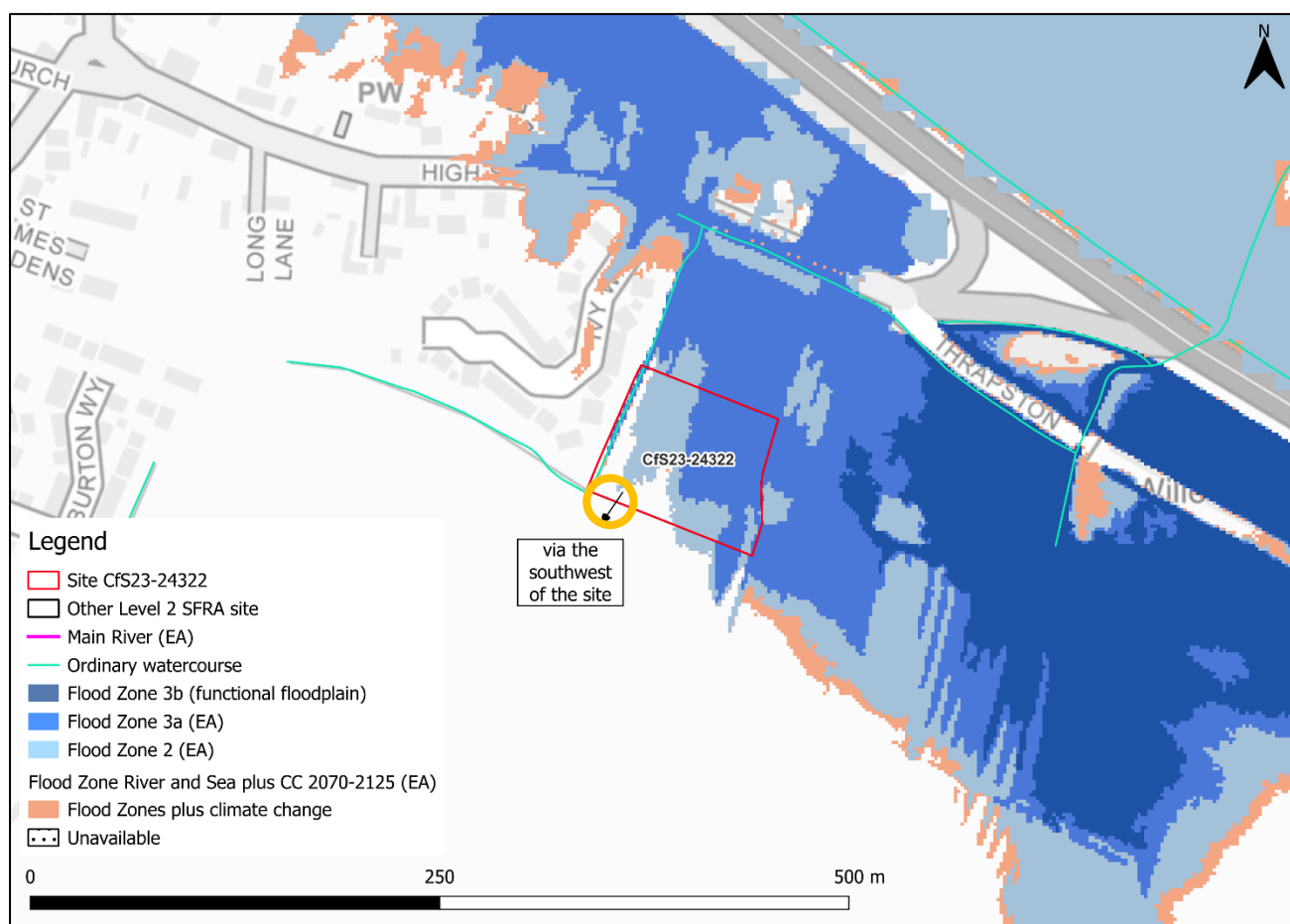


Figure 2-5: Potential access and escape routes

## 2.6 Observations, mitigation options, site suitability, sequential approach to development management - fluvial and tidal

- **Observations:**
  - The proposed development of the site would see a change in the risk classification from less vulnerable to more vulnerable, according to the NPPF.
  - The site is partially located within fluvial Flood Zone 3a and therefore must be subject to the exception test.
  - The area within Flood Zone 3a should not be developed for residential purposes. Given that modelled on-site depths are unavailable, it is unknown whether land raising could be a viable solution.
  - The extent of fluvial risk from the unmodelled watercourse is currently unknown. Using the 0.1% AEP surface water event as a proxy, risk is modelled to remain largely confined to the western site boundary.
- **Defences:**
  - The site does not benefit from any formal engineered flood defences, according to the EA's spatial flood defences dataset.
- **Mitigation:**

- Ideally, this site would not be developed for more vulnerable uses and would remain as open greenspace.
- Detailed modelling of the ordinary watercourses will be required to inform on flood depths and hazards for both present day and with climate change.
- There may be an option for ground floor parking or other less vulnerable uses (i.e. non-residential such as shops, restaurants, offices) and for habitable dwellings, sleeping areas, to be situated on the first floor and upwards. However, safe access and escape routes must be available at times of flood, even for above ground floor accommodation. Detailed modelling will be required to inform this option.
- The onsite ordinary watercourse should be included within the site design and layout. Infilling of drainage ditches should be avoided.
- If works are proposed on or near a river, a separate permission may be required. The type of permission needed and whether it must be sought from the Environment Agency, Lead Local Flood Authority or Internal Drainage Board will depend on the activity and location proposed.
- Access and escape:
  - Safe access and escape routes must be available at times of flood. There is currently no existing safe route to and from the site. However, safe access and escape could possibly be achieved during a flood event from the southwest of the site if suitable infrastructure is established. This should be detailed in the site-specific FRA.

## 3 Flood risk from surface water

### 3.1 Existing risk

The NaFRA2 Risk of Flooding from Surface Water (RoFSW) mapping received a significant update and was published January 2025, including for surface water flood extents and depths. However, at the time of writing, the EA has confirmed that the depth information available is not structured in a way that is suitable for planning purposes. Therefore, this Level 2 SFRA considers the third generation RoFSW depth and hazard mapping in addition to the NaFRA2 extents, as agreed with the EA. Surface water depth and hazard should be modelled at the site-specific FRA stage.

#### 3.1.1 Risk of Flooding from Surface Water - NaFRA2 extents

Based on the EA's national scale RoFSW map, as updated in January 2025, surface water risk to the site is predominantly high (35%). Approximately 17% is at medium surface water risk, a further 29% at low surface water risk and 19% at very low surface water risk. Surface water flood risk is widespread across the site.

Table 3-1: Existing surface water flood risk based on percentage area at risk using the NaFRA2 RoFSW map

| Very low risk (% area) | Low risk (% area) | Medium risk (% area) | High risk (% area) |
|------------------------|-------------------|----------------------|--------------------|
| 19                     | 29                | 17                   | 35                 |

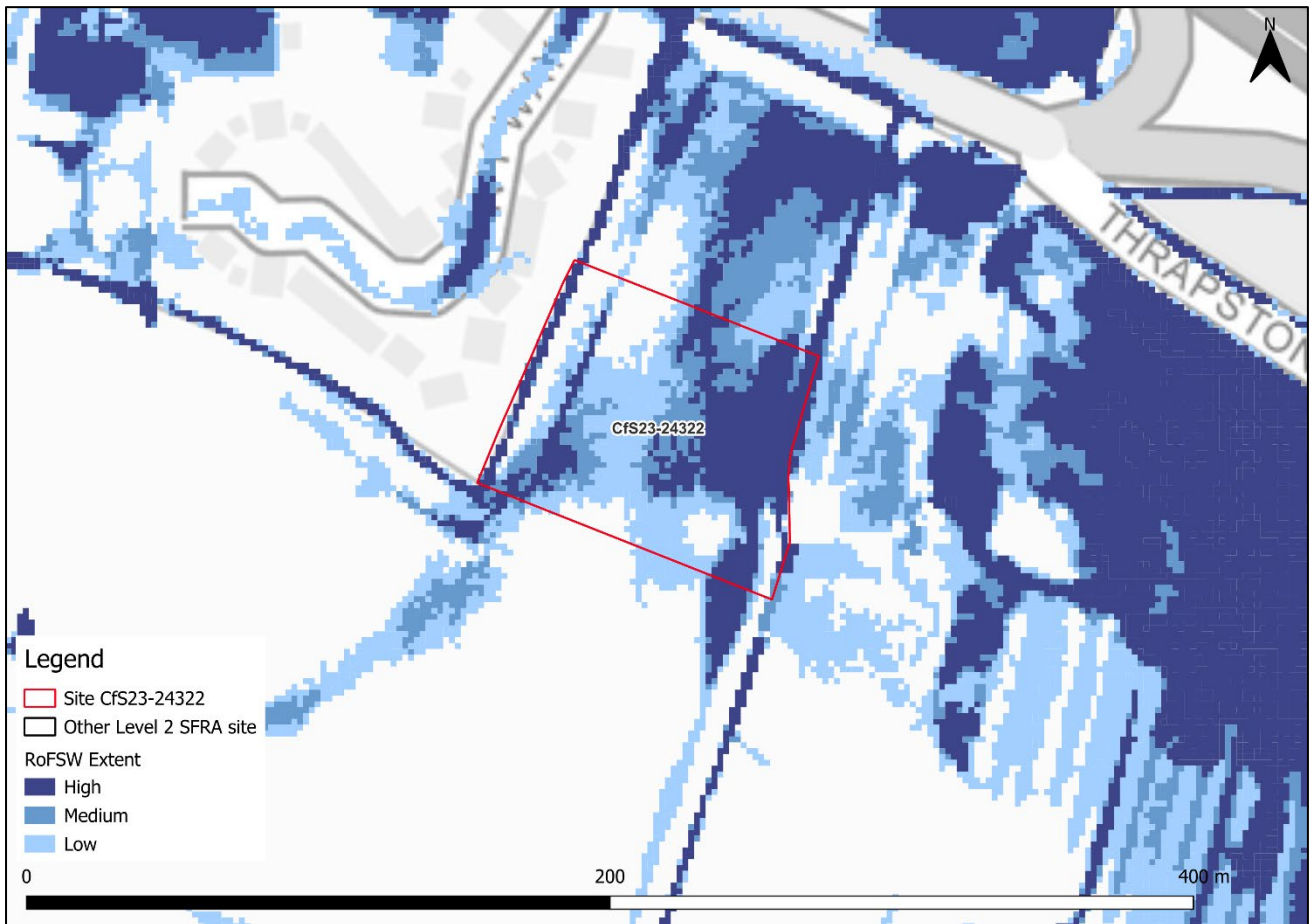


Figure 3-1: Surface water flood extents (NaFRA2 - Risk of Flooding from Surface Water map)

### 3.1.2 Risk of Flooding from Surface Water - third generation depths and hazard

The EA's national scale third generation RoFSW map shows a significantly smaller area at risk during the medium risk event (1% AEP) when compared to NaFRA2. Furthermore, the areas predicted to be at risk are shown as high risk within the NaFRA2 dataset. Depths are predicted to largely remain below 0.30m (Figure 3-2) and the flooding is predicted to mostly pose a low hazard (Figure 3-3).

There are differences between the NaFRA2 RoFSW map and the third-generation depths and hazard mapping. This reinforces the requirement for detailed assessment of surface water at the FRA stage to establish surface water flood risk conditions.

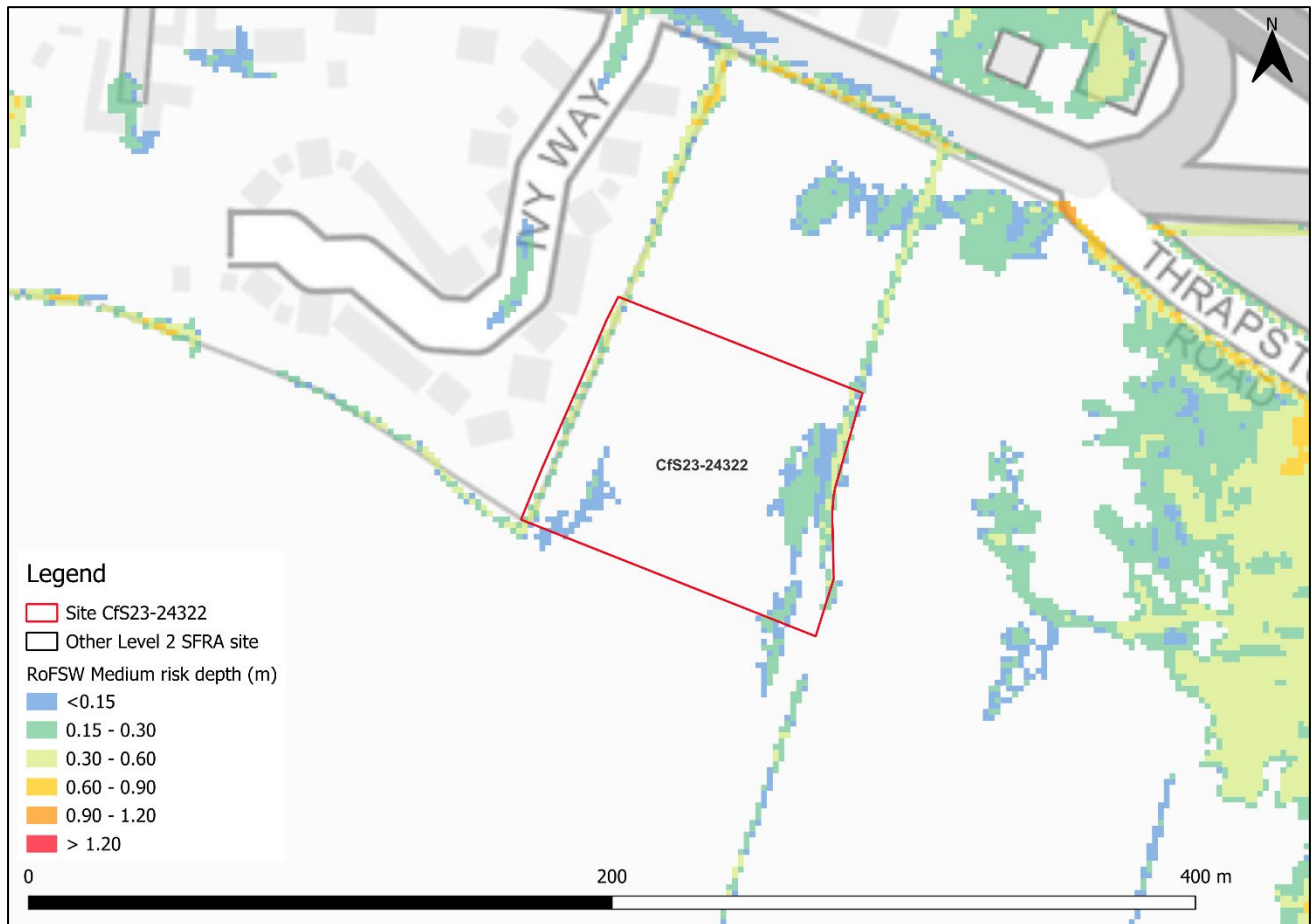


Figure 3-2: Medium risk event surface water flood depths (Third generation - Risk of Flooding from Surface Water map)

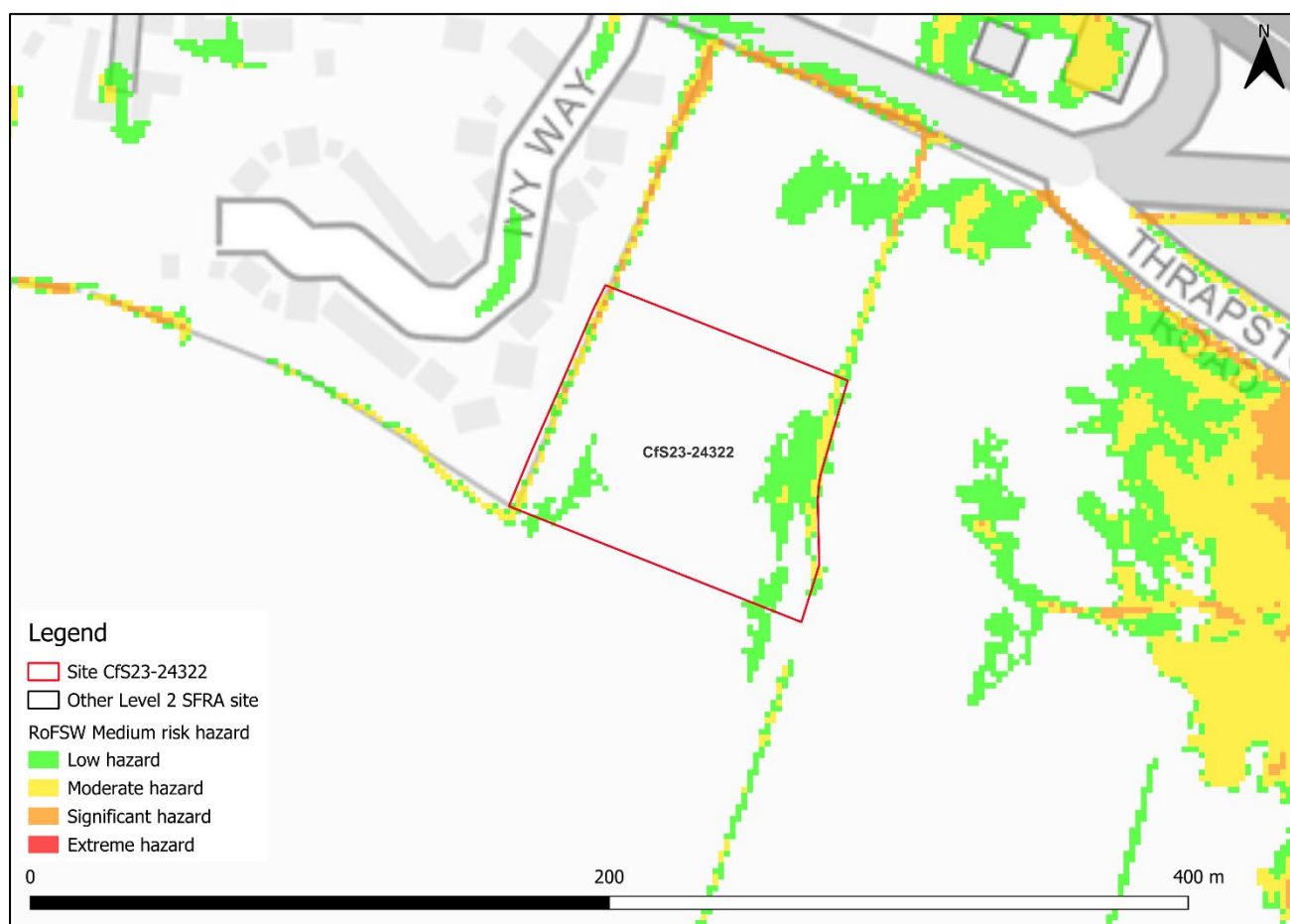


Figure 3-3: Medium risk event surface water flood hazard<sup>1</sup> (Third generation - Risk of Flooding from Surface Water map)

### 3.2 Impacts from climate change

The NaFRA2 RoFSW mapping now includes one modelled climate change scenario, the 2050s central allowance for the high, medium and low risk events. However, the upper end allowance on peak rainfall for the 2070s should be assessed in SFRAs. Therefore, at the time of writing, the available national surface water climate change mapping is unsuitable for consideration in development planning. This Level 2 SFRA considers the low risk surface water event as a conservative proxy for the medium risk event plus climate change, as agreed with the EA. The impact of climate change on surface water flood risk should be fully accounted for at the site-specific FRA stage.

The NaFRA2 and EA's national scale third generation RoFSW map low risk event outputs (used as a proxy for the medium risk event plus climate change) are more similar than the medium risk events. Based on the information available, a large majority of the site is predicted to be at surface water risk, with the exception of small areas in the northwest and south (Figure 3-4). Flood depths mostly remain below 0.30m (Figure 3-5) and flooding is

<sup>1</sup> Based on Section 7.5 Hazard rating. What is the Risk of Flooding from Surface Water map? Report version 2.0. April 2019. Environment Agency

predicted to predominantly pose a low hazard (Figure 3-6). However, some small areas in the east and west may pose a significant hazard.

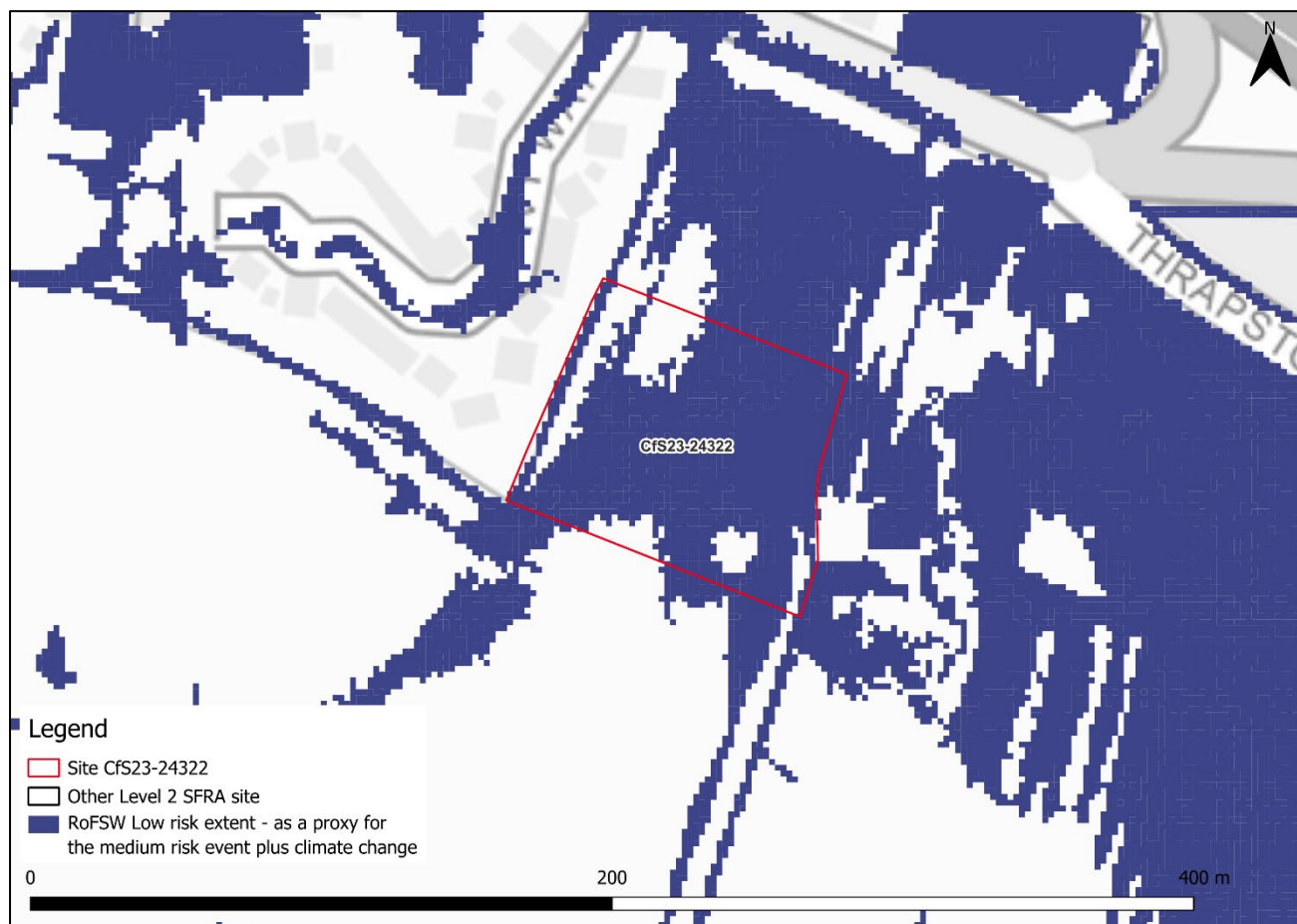


Figure 3-4: Low risk event surface water flood extent, as a proxy for the medium risk event plus climate change (NaFRA2 - Risk of Flooding from Surface Water map)

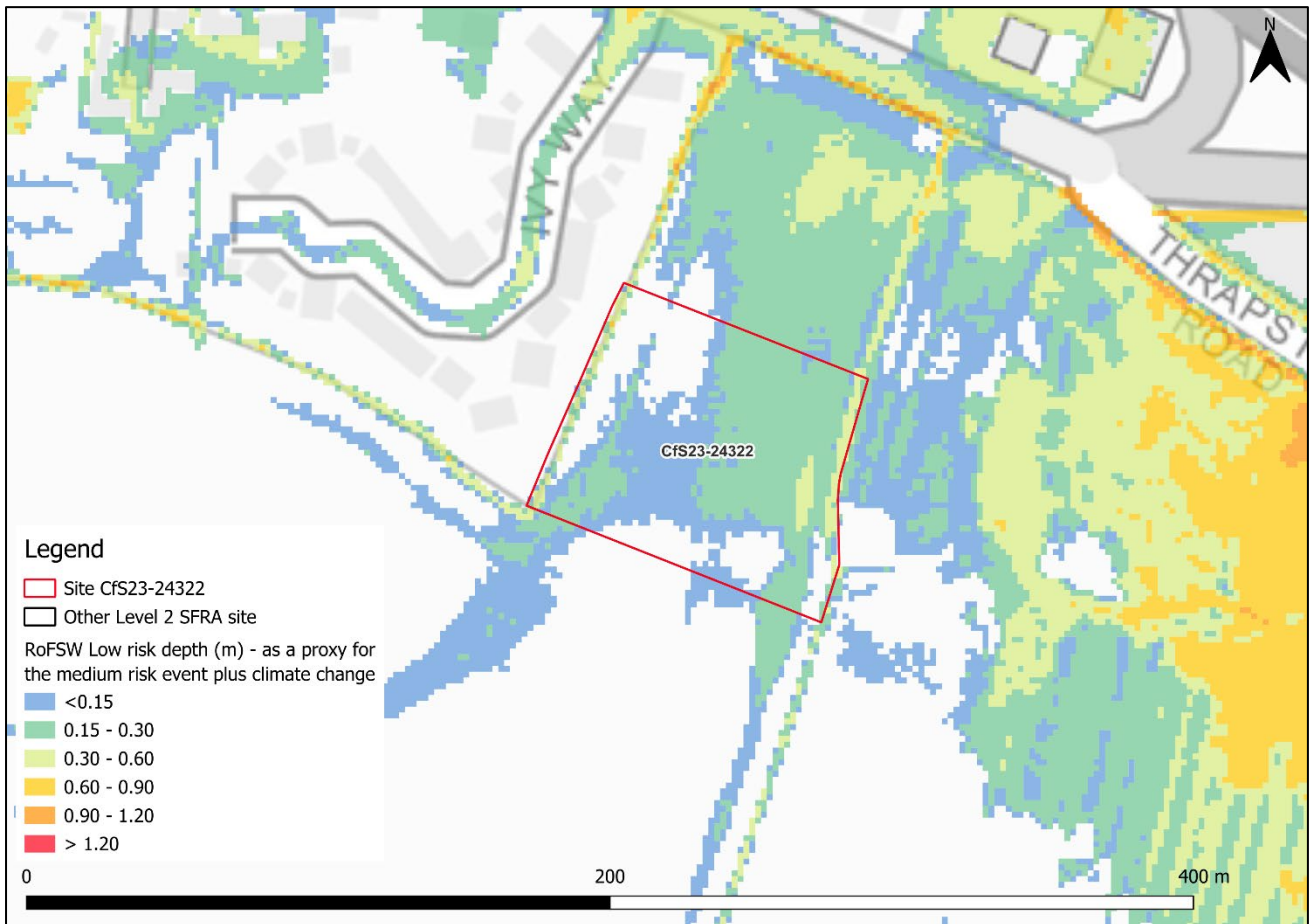


Figure 3-5: Low risk event surface water flood depths, as a proxy for the medium risk event plus climate change (Third generation - Risk of Flooding from Surface Water map)

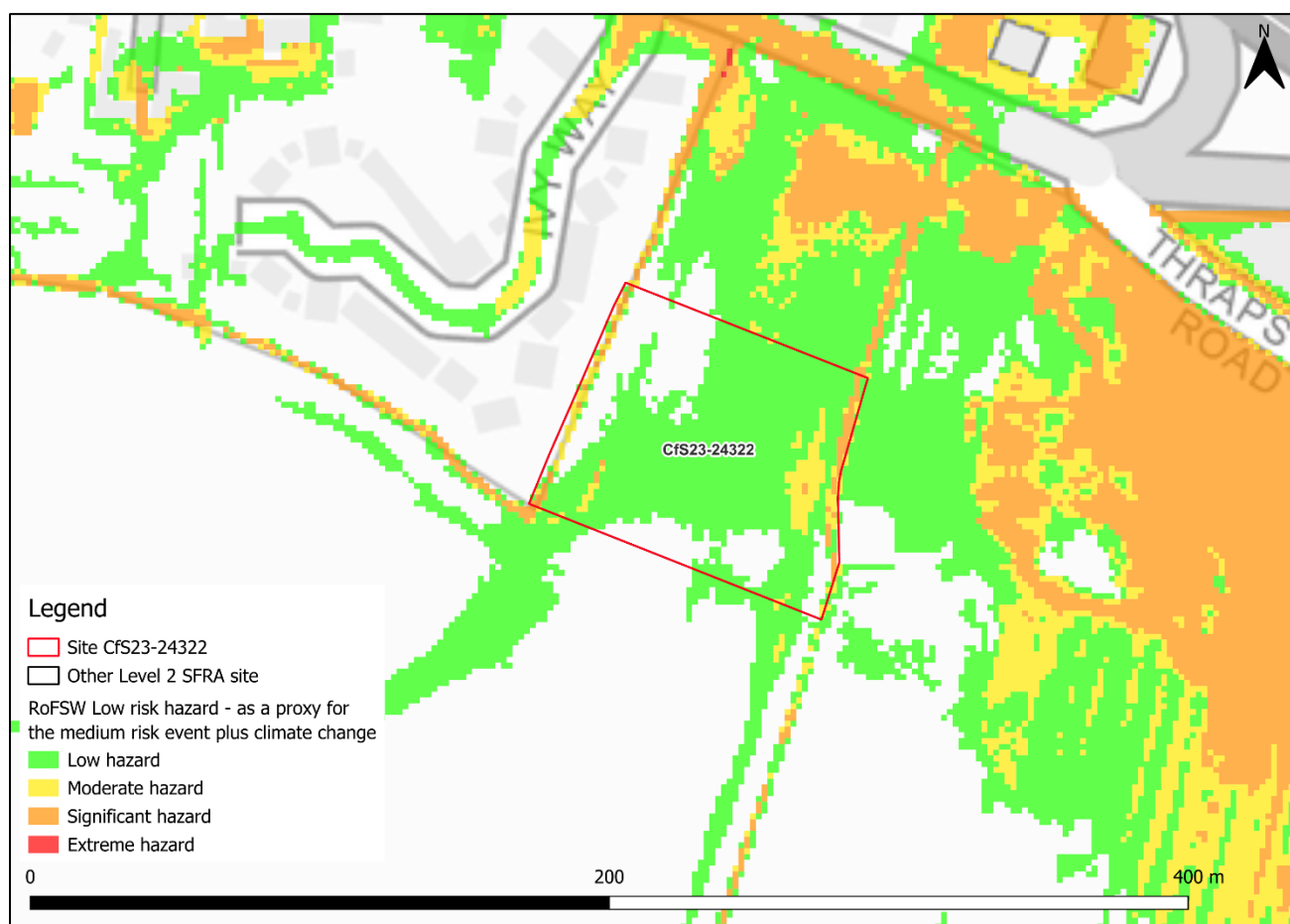


Figure 3-6: Low risk event surface water flood hazard, as a proxy for the medium risk event plus climate change (Third generation - Risk of Flooding from Surface Water map)

### 3.3 Observations, mitigation options, site suitability, sequential approach to development management - surface water

- Current risk to the site is predominantly high, with 35% of the site being at very high surface water flood risk. Surface water risk in the high and medium risk events is predominant in the east and southwest of the site.
- As with fluvial risk, surface water risk could be significant onsite, reinforcing the recommendation to leave this site as open greenspace.
- The effects of climate change on surface water have not been modelled for this SFRA, however the low risk surface water event has been used as a proxy for the medium risk event plus climate change. Risk is significantly larger than the medium risk event, with a greater extent of ponding within the centre of the site.
- Surface water flood depths, hazards, including for the impact of climate change should be considered further through the site-specific FRA and drainage strategy. Any surface water modelling at the FRA stage should consider flood depths and hazards.
- There are clear differences between the NaFRA2 RoFSW map and the third-generation depths and hazard mapping. This reinforces the requirement for

detailed assessment of surface water at the FRA stage to establish surface water flood risk conditions.

- The drainage strategy must ensure there is no increase in surface water flood risk elsewhere as a result of new development. Greenfield rates will apply, and the developer should follow the National SuDS guidance and any local guidance available from the LLFA.
- Topographic low spots and flow paths should be incorporated into site design and layout.
- The RoFSW map is not suitable for identifying whether an individual property will flood and is therefore indicative. The RoFSW map is not appropriate to act as the sole evidence for any specific planning or regulatory decision or assessment of risk in relation to flooding at any scale without further supporting studies, modelling, or evidence.
- The LLFA are concerned that a significant proportion of this small site is at surface water flood risk (over 80%) with 35% in the high surface water flood risk area. The LLFA agree with the recommendation that this site is not suitable for development.

## 4 Cumulative impacts assessment and high risk catchments

### 4.1 Level 1 cumulative impacts assessment

A cumulative impact assessment was completed through the Huntingdonshire Level 1 SFRA (2024), which aimed to identify catchments sensitive to the cumulative impact of new development. This site is located within one catchment, namely, the Ellington Brook catchment. This catchment is ranked as a low sensitivity catchment. Planning considerations for sites at low sensitivity to the cumulative impacts of development can be found in Appendix G of the Level 1 SFRA. Cumulative impacts of development should also be considered as part of a site-specific FRA.

## 5 Groundwater, geology, soils, SuDS suitability

Risk of groundwater emergence is assessed in this SFRA using JBA's 5m Groundwater Emergence Map. This dataset is recommended for use by the EA in the SFRA Good Practice Guide<sup>2</sup>. Figure 5-1 shows the map covering this site and the surrounding areas. Table 5-1 explains the risk classifications.



Figure 5-1: JBA 5m Groundwater Emergence Map

The whole the site is classified as no risk. Infiltration SuDS should therefore be suitable at this site.

<sup>2</sup> [Strategic flood risk assessment good practice guide. ADEPT. December 2021.](#)

Table 5-1: Groundwater Hazard Classification

| Groundwater head difference (m)*                                                           | Class label                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 to 0.025                                                                                 | Groundwater levels are either at very near (within 0.025m of) the ground surface in the 100-year return period flood event. Within this zone there is a risk of groundwater flooding to both surface and subsurface assets. Groundwater may emerge at significant rates and has the capacity to flow overland and/or pond within any topographic low spots. |
| 0.025 to 0.5                                                                               | Groundwater levels are between 0.025m and 0.5m below the ground surface in the 100-year return period flood event. Within this zone there is a risk of groundwater flooding to surface and subsurface assets. There is the possibility of groundwater emerging at the surface locally.                                                                      |
| 0.5 to 5                                                                                   | Groundwater levels are between 0.5m and 5m below the ground surface in the 100-year return period flood event. There is a risk of flooding to subsurface assets, but surface manifestation of groundwater is unlikely.                                                                                                                                      |
| >5                                                                                         | Groundwater levels are at least 5m below the ground surface in the 100-year return period flood event. Flooding from groundwater is not likely.                                                                                                                                                                                                             |
| N/A                                                                                        | No risk.<br>This zone is deemed as having a negligible risk from groundwater flooding due to the nature of the local geological deposits.                                                                                                                                                                                                                   |
| *Difference is defined as ground surface in mAOD minus modelled groundwater table in mAOD. |                                                                                                                                                                                                                                                                                                                                                             |

The underlying bedrock within the site is a combination of mudstone, siltstone and sandstone (Figure 5-2). Mudstone and siltstone generally have low permeability.

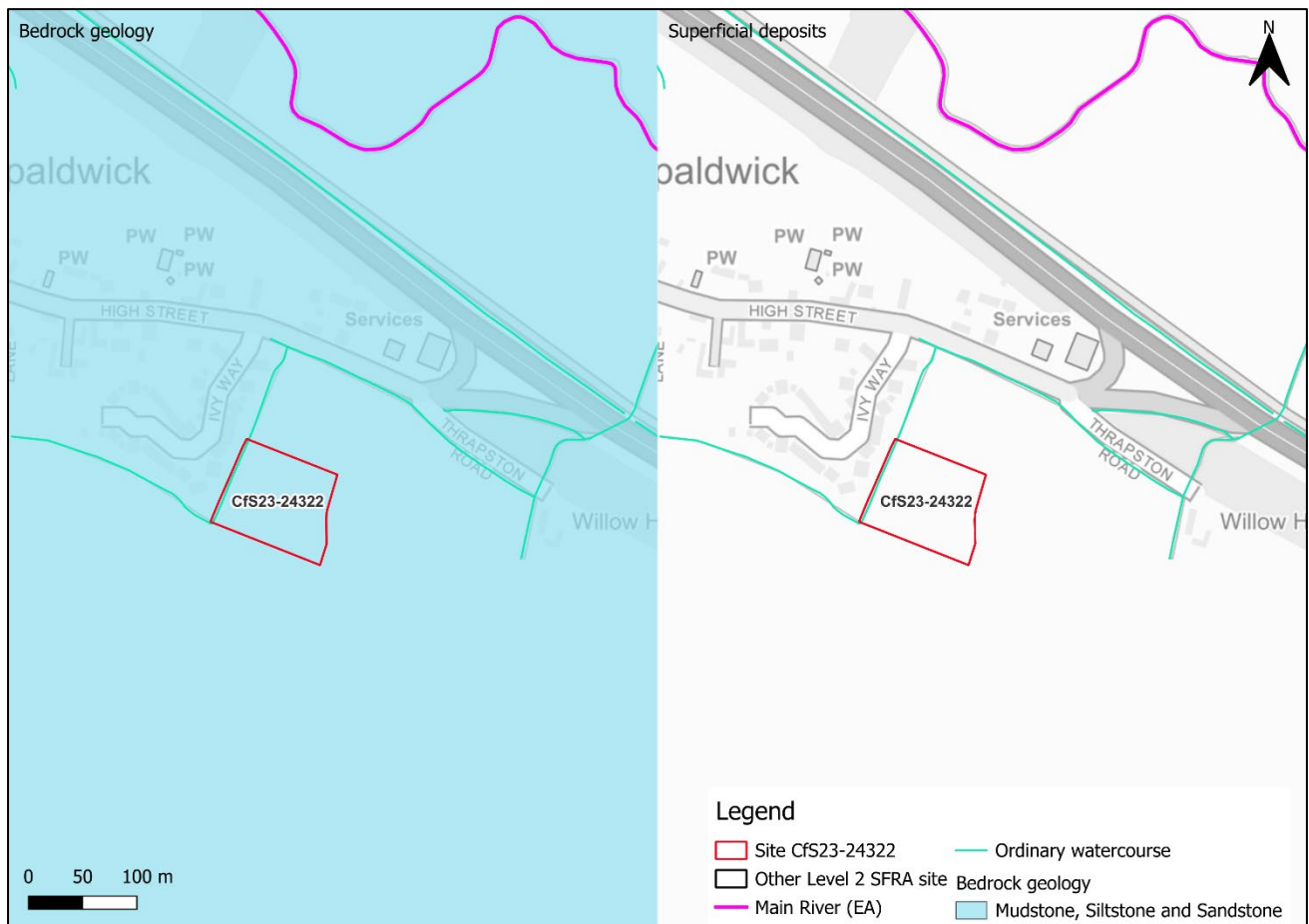


Figure 5-2: Soils and geology

## 6 Residual risk

Although a site may be afforded some protection from defences and / or drainage infrastructure, there is always a residual risk of flooding from asset failure i.e. breaching / overtopping of flood defences, blockages of culverts or drainage assets.

Based on available information, there does not appear to be any residual risk to this site.

### 6.1 Flood risk from reservoirs

The EA's Reservoir Flood Maps (RFM) (2021) show where water may go in the unlikely event of a reservoir or dam failure. A 'dry day' scenario assumes that the water level in the reservoir is the same as the spillway level or the underside of the roof for a service reservoir and the watercourses upstream and downstream of the reservoir are at a normal level. A 'wet day' scenario assumes a worst-case scenario where a reservoir releases water held on a 'wet day' when local rivers have already overflowed their banks.

The site is not modelled to be at risk from reservoir flooding.

## 7 Overall site assessment

### 7.1 Can part b) of the exception test be passed?

This site is required to pass part b) of the exception test as it is proposed for more vulnerable development and is located within Flood Zone 3a. Based on the information presented in this Level 2 SFRA, the exception test cannot be passed and the site should not be allocated. However, the test could be reapplied if further information on flood risk, as outlined in this report, becomes available.

### 7.2 Recommendations summary

Based on the evidence presented in the Level 1 SFRA (2024) and this Level 2 SFRA:

- The site should remain as open greenspace and not be allocated for development.
- Were development to proceed, detailed modelling of flood depths and hazards will be required to inform layout, design, and safe access and escape routes.
- Opportunities for NFM features to reduce flood risk to the site and surrounding areas should be explored .

### 7.3 Site-specific FRA requirements and further work

- It is recommended that this site is not developed.
- However, any FRA for the site should be carried out in line with the latest versions of the NPPF; FRCC-PPG; EA online guidance; the HDC Local Plan, and national and local SuDS policy and guidelines.
- Throughout the FRA process, consultation should be carried out with, where applicable, the local planning authority; the lead local flood authority; emergency planning officers; the Environment Agency; Anglian Water; the highways authorities; and the emergency services.

## 8 Licencing

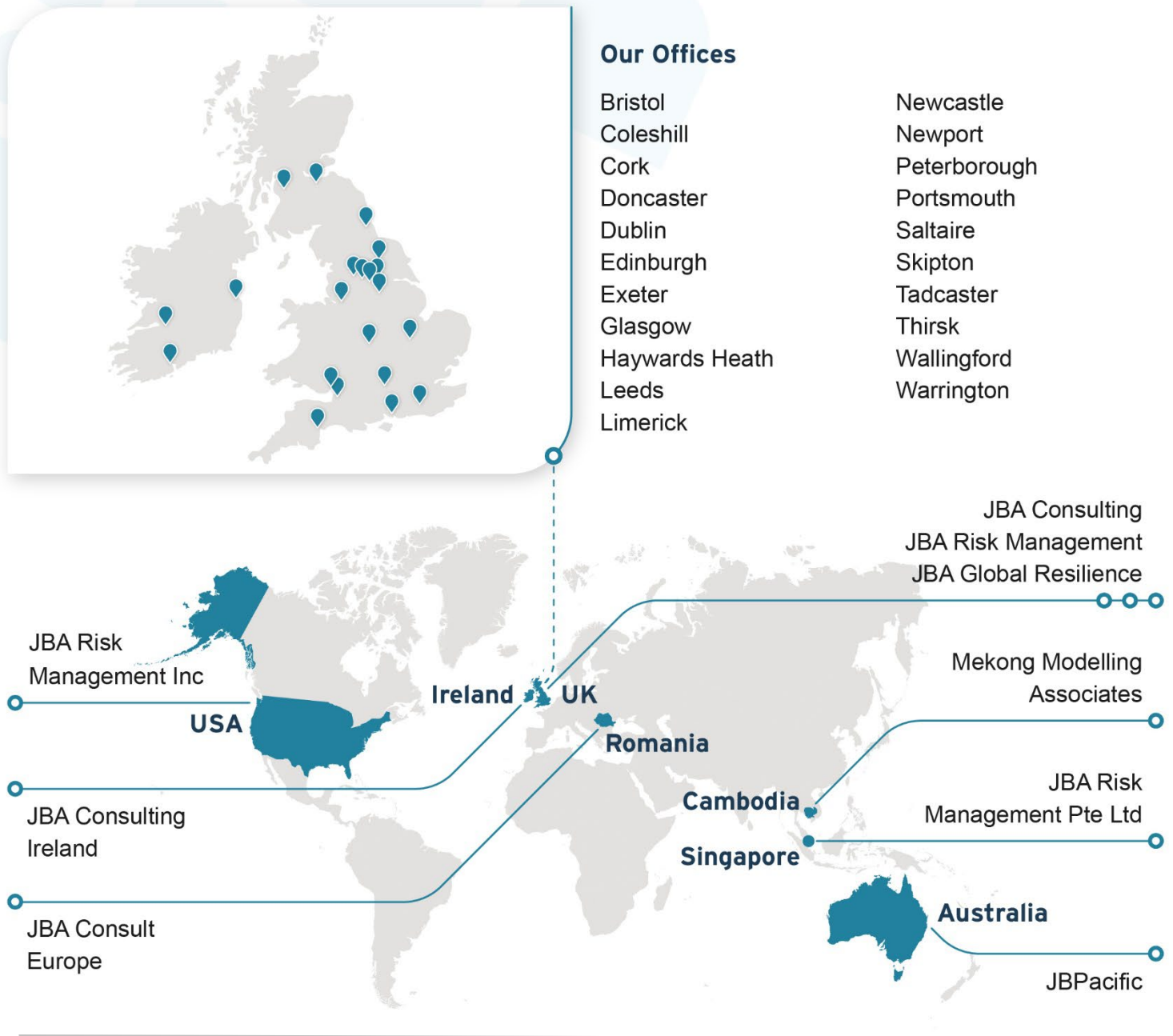
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