

Appendix E EA Product 4 Data



Project Number: 331610058

Our ref: EIR2025/34993

Your ref: 332612820

Date: 31 October 2025

RE: Environmental Information Regulations: EIR2025/34993

Thank you for your request for information regarding product 4: NM5HTEPG6P4X for postcode CB3 9LH (542603, 257967), which we received on 7 October 2025.

We respond to requests for information that we hold under the Environmental Information Regulations 2004 (EIR). The Regulations requires that we respond to requests by advising you whether information is held or not, and if so by providing you with that information.

1) A detailed flood map for the site and surrounding area, to include the floodplains for the 1 in 20 year, 1 in 100 year and 1 in 1,000 year floodplains with and without climate change and any other available return periods. This should be provided as part of **EA Product 4: Detailed FRA Map for the local area which *MUST* include the following (where the data is available):**

- Ordnance Survey 1:25k colour raster base mapping
- Flood Zone 2 and Flood Zone 3
- Model node locations for the adjacent watercourse to the site and unique identifiers
- Extents of the modelling for the adjacent watercourse to the site
- Flood defence locations, levels, unique identifiers and any areas benefiting from defences
- Locations of any flood storage areas
- Historic flooding information and flood outlines with unique identifiers
- Statutory (Sealed) Main River extents
- A table showing:
 - o Model node X/Y coordinate locations, unique identifiers, levels, flows and JFLOW (or other modelled) flood depths
 - o Flood defence locations unique identifiers and attributes
 - o Historic flood events outlines unique identifiers and attributes
 - o Local flood history data

2) Details of any historic flooding in the vicinity of the site (to include written reports, photos, flood extent outlines, duration, return period etc., and commentary on the source/mechanisms of flooding and also including information relating to antecedent conditions and confirmation of the month or season in which they occurred).

Recorded flood outlines can be found here:

<https://www.cambridgeshire.gov.uk/business/planning-and-development/flood-and-water/flood-risk-management/flooding-and-flood-investigations> This link takes you to the flood

reports of Cambridgeshire county Council. However, you may wish to go to the LLFA in the first instance if you would like Section 19 reports (where they exist).

Product 4:

Please see attached document.

Please note:

We can confirm that this site does not benefit from any Environment Agency maintained assets (walls or embankments).

We are not aware of any flood storage areas as the site is beyond main river.

Abstract

Name	Product 4
Description	Detailed Flood Risk Assessment Map for Easting/Northing: 542603, 257967 Postcode: CB3 9LH
Licence	Open Government Licence
Information Warning - OS background mapping	<i>The mapping of features provided as a background in this product is © Ordnance Survey. It is provided to give context to this product. The Open Government Licence does not apply to this background mapping. You are granted a non-exclusive, royalty free, revocable licence solely to view the Licensed Data for non-commercial purposes for the period during which the Environment Agency makes it available. You are not permitted to copy, sub-license, distribute, sell or otherwise make available the Licensed Data to third parties in any form. Third party rights to enforce the terms of this licence shall be reserved to OS.</i>
Attribution	Contains Environment Agency information © Environment Agency and/or database rights. Contains Ordnance Survey data © Crown copyright 2025 Ordnance Survey OS AC0000807064.

Breach Data Unavailable

We hold no breach data for your site. Please refer to the appropriate Strategic Flood Risk Assessment (SFRA) from the relevant Local Planning Authority.

New National Model in Flood Map

The Flood Map for Planning (Rivers and Sea) for this area includes broadscale New National Modelling (NNM) developed for the updated National Flood Risk Assessment (NaFRA2). This modelling uses improved data and more advanced hydraulic techniques than previous versions; however, it remains a generalised tool intended to inform a high-level risk assessment.

Flood levels and depths are not currently available from NNM. Therefore, additional assessment is required for identifying whether an individual property will flood, or for use in site specific Flood Risk Assessments.

Where the Flood Map for Planning is used to inform development proposals, further assessment within the FRA, including appropriate climate change allowances, is required to provide reliable flood level, extent, and depth data for decision-making.

This risk-based approach will depend on the scale and nature of the proposed development, as well as the flood zone the proposed development is located in.

While the flood levels and depth data from our New National Model are not currently available, the outlines from the Flood Map for Planning can be downloaded from the DEFRA Data Services Platform: <https://environment.data.gov.uk/>

If you would like to contact us again at a later date, we might be in a position to provide flood depth data associated with our New National Flood Risk Assessment system.

If you need further advice, you may wish to contact our Sustainable Places team at Planning.EastAnglia@environment-agency.gov.uk to set up a chargeable agreement to discuss your planning proposal further with our local flood risk team.

3) Information regarding any remedial works undertaken to alleviate flooding in the wider area.

Bin Brook bypass channel was constructed to alleviate flooding in and around the Gough Way Estate, it acts as flood relief channel once the Gough Way Culvert is at capacity.

4) Details of the flood defences which currently protect the site (e.g. standards of protection, ownership, condition and maintenance arrangements).

We can confirm that this site does not benefit from any Environment Agency maintained assets (walls or embankments).

5) Details of local hydraulic features/controls and hydrological influences that should be considered when undertaking a flood risk assessment (e.g. condition, capacity, ownership and maintenance arrangements).

6) Confirmation of any design requirements e.g. finished floor levels, mitigation measures, access.

8) Any further information regarding the watercourse in the vicinity of the site.

9) Details of any known setback (easement) from watercourses required for development within this area.

The normal bylaw distance as is always the case. Potentially bigger setbacks needed due to the depth and construction of the channel.

According to our records, the Environment Agency has no land ownership at the location shown outlined in red on the location map provided.

Please check the LPA's SFRA and supplementary planning documents (SPDs) for further information and our guidance on preparing an FRA here: [Flood risk assessments: applying for planning permission - GOV.UK](#). Please also see the information written under the headings below.

If you would like more detailed, site-specific advice on flood risk, such as a review of your draft FRA, please be aware that we now charge for planning advice provided to developers, agents and landowners. If you would like advice to inform a future planning application for this site then please complete our <https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion> and email it to our Sustainable Places team at: planning.eastanglia@environment-agency.gov.uk

Design Requirements:

Any proposed flood resilient measures should follow current Government Guidance. For more information on flood resilient techniques, please see the Department for Communities and Local Government (DCLG) guidance document "Improving the Flood Performance of New Buildings – Flood Resilient Construction", which can be downloaded from the following

website: <https://www.gov.uk/government/publications/flood-resilient-construction-of-new-buildings>

Details of any known setback (easement) from watercourses:

Under the terms of the Environmental Permitting Regulations (EPR), a permit may be required from the Environment Agency for any proposed works or structures within the floodplain or in, under, over or within 8 metres from the top of the bank of the main river.

The EPR are a risk-based framework that enables us to focus regulatory effort towards activities with highest flood or environmental risk. Lower risk activities will be excluded or exempt and only higher risk activities will require a permit. Your proposed works may fall under one or more of the below:

- Exclusion
- Exemption
- Standard Rules Permit
- Bespoke permit.

Information on how to apply for a permit and application forms can be found on our website at: <https://www.gov.uk/guidance/flood-risk-activities-environmental-permits>

Anyone carrying out a flood risk activity without a permit where one is required, is breaking the law.

Surface water flood risk:

You can check your flood risk, including surface water risk online <https://check-long-term-flood-risk.service.gov.uk/postcode>

You may find this document helpful on surface water flooding

<https://www.gov.uk/government/publications/flood-risk-maps-for-surface-water-how-to-use-the-map> but if you would like more information regarding surface water flooding, please consult the Lead Local Flood Authority (LLFA).

Please also note that other organisations such as the LLFA for the area, or Internal Drainage Boards (where they exist), may hold records for other sources of flooding.

7) Confirmation of EA flood warning areas/triggers/levels in the vicinity of the site.

The area of interest is partially within the following flood alert and flood warning areas, as shown on the attached map:

Target Area Code	TA Name	TA Description
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052WAFBINBROOK	Bin Brook in Cambridgeshire	Bin Brook at Newnham in Cambridge
052FWFBBNEWNHAM1	Low lying areas close to Bin Brook at Newnham	Cambridge Rugby Union Football Club, Barton Road, Gough Way, Penarth Place, Herschel Road, Sylvester Road and Grange Road in Newnham
052FWFBBNEWNHAM2	Wider area at risk from Bin Brook at Newnham	Fulbrooke Road, Barton Road, Gough Way, Penarth Place, Wootton Way, Dane Drove, Sylvester Road and Robinson College in Newnham

The flood alert is triggered when levels on the Bin Brook reach 10.30 mAOD.

We consider issuing the flood warning 052FWFBBNEWNHAM1 when levels on the Bin Brook reach 10.50 mAOD. We expect property flooding to occur when levels rise above 11.20 mAOD. We consider issuing the flood warning 052FWFBBNEWNHAM2 when levels on the Bin Brook reach 11.20 mAOD. We expect property flooding to occur when levels rise above 11.80 mAOD.

Groundwater

10) Details of any groundwater source protection zones and the nature of groundwater flow in the vicinity of the site i.e. Is the site located on an aquifer? Please provide indicative details of the ground conditions and level of water table if possible.

The site is located on unproductive, low permeability mudstone strata of the Gault Formation, which is therefore not classified as an aquifer. The site is not within an SPZ.

- The enquirer may also view Aquifer Designations using the [Magic Map Application \(defra.gov.uk\)](https://defra.gov.uk) either using the ‘Search for Layers’ tool citing “Aquifer Designation Map”, or by looking under “Landscape > Geology and Soils”.
- Additionally, the enquirer may view Groundwater Vulnerability Zones using the [Magic Map Application \(defra.gov.uk\)](https://defra.gov.uk) either using the ‘Search for Layers’ tool citing “Groundwater Vulnerability Map”, or by looking under “Landscape > Geology and Soils”.

11) Details of any known groundwater flooding issues.

The setting on unproductive strata indicates that a risk of groundwater flooding is very low.

Furthermore, you may also find further groundwater level information on the British Geological Survey website:

- Scanned hydrogeology maps - [Viewer for scanned hydrogeology maps of the UK | British Geological Survey \(BGS\)](#)
- Onshore borehole records - [Geology of Britain viewer | British Geological Survey \(BGS\)](#)

Regarding groundwater flooding, the Lead local flood authorities (LLFAs) have responsibilities for local flood risk (including groundwater) under the Flood and Water Management Act 2010. This Act gives LLFAs duties to prepare local flood risk management strategies and to co-operate with other risk management authorities, and powers to carry out local flood risk management. The LLFA is either the unitary authority or the county council for the area.

Here is a link to the Environment Agency/Local Government Association groundwater flooding guidance document: [Flooding from groundwater - GOV.UK \(www.gov.uk\)](http://www.gov.uk/government/uploads/system/uploads/attachment_data/file/282222/Flooding_from_groundwater_-_GOV.UK.pdf)

***Surface Water* – This section should be redirected to the lead local Flood Authority (Cambridgeshire)**

12) The EA Flood Map for surface water for the wider site (indicating areas at risk in the 1 in 30 year and the 1 in 200 year storm events).

13) Details of any known surface water flooding at the site or nearby.

14) Details of any known capacity issues in the local highways drainage or surface water sewer systems.

We hold no information regarding details of any known capacity issues in the local highways drainage or surface water sewer systems as this is outside of our remit.

You may wish to contact the local authority and Anglian Water to see if they hold any relevant information regarding the local surface water sewer systems.

Data Licence: Where the data has been provided to you online as Open Data, full details of supporting information and licensing are available when you access the data.

For all other data provided, unless stated otherwise, please refer to the Open Government Licence available here: <http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/> which explains the permitted use of this information.

Data not held:

We have considered parts of your request, as outlined above, under the provisions of the Environmental Information Regulations 2004 (EIR). The Act requires that we respond to requests by advising you whether or not information is held, and if so by providing you with that information.

EIR Regulation 3(2) states that information is held if it is in our possession and has been produced or received by us, or it is held by another person on our behalf at the time the request is received.

In this case, the information you have requested is not held by us. Therefore, we are refusing your request on the grounds that there is no information we can provide.

Where a request is for environmental information, the Regulations allow us to refuse to disclose it if the exception at EIR Regulation 12(4)(a) applies. The regulation states that a public authority may refuse to disclose environmental information to the extent that it does not hold that information when an applicant's request is received.

It is not possible for us to conduct a public interest balancing test because the reason for non-disclosure is that the information is not held.

Extra Information you may find useful

Planning Advice:

Please be aware that we now charge for planning advice provided to developers, agents and landowners. If you would like advice to inform a future planning application for this site then please complete our <https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion> and email it to our Sustainable Places team at: planning.eastanglia@environment-agency.gov.uk. They will initially provide you with a free response identifying the following:

- the environmental constraints affecting the proposal;
- the environmental issues raised by the proposal;
- the information we need for the subsequent planning application to address the issues identified and demonstrate an acceptable development;
- any required environmental permits.

If you require any further information from them (for example, a meeting or the detailed review of a technical document) they will need to set up a charging agreement. Further information can be found online here: [Flood risk assessments: applying for planning permission - GOV.UK](#)

Climate change information:

The climate change data included in the models may not include the latest <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances> Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Data Available Online:

Many of our flood datasets are available online on the DEFRA Data Services Platform: <https://environment.data.gov.uk/>

Rights of appeal:

If you are not satisfied with our decision, you can contact us within two calendar months to ask for the decision to be reviewed. We will then conduct an internal review of our response to your request and give you our decision in writing within 40 working days.

If you are not satisfied with the outcome of the internal review, you can then make an appeal to the Information Commissioner Office, the statutory regulator for EIR and FOI. The address is: Information Commissioner's Office, Wycliff House, Water Lane, Wilmslow, Cheshire. SK9 5AF.

Tel: 0303 123 1113 (local rate) or 01625 545 745 (national rate) | Fax: 01625 524 510

Email: casework@ico.org.uk | Website: www.ico.org.uk




Yours sincerely,

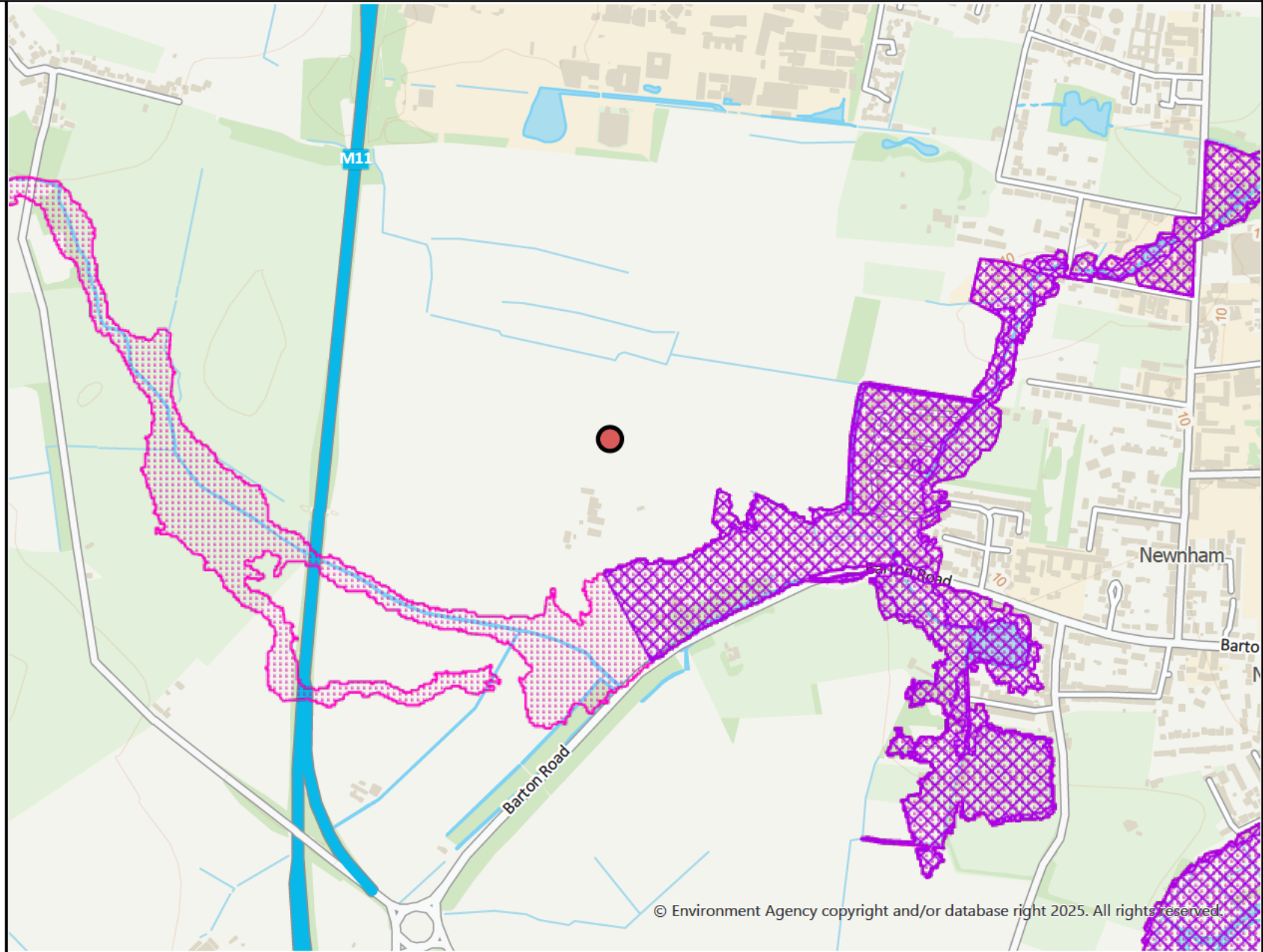
East Anglia Area Customers and Engagement Team

To report environmental problems please visit www.gov.uk/report-environmental-problem or call the incident hotline on 0800 80 70 60.

Map showing flood alert and flood warning areas near land Southwest of Cambridge

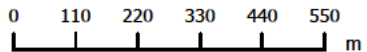


- Flood Warning Areas
 Flood Warning Areas
- Flood Alert Areas
 Flood Alert Areas
-  Override 1



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Scale: 1:13,382



Flood risk assessment data



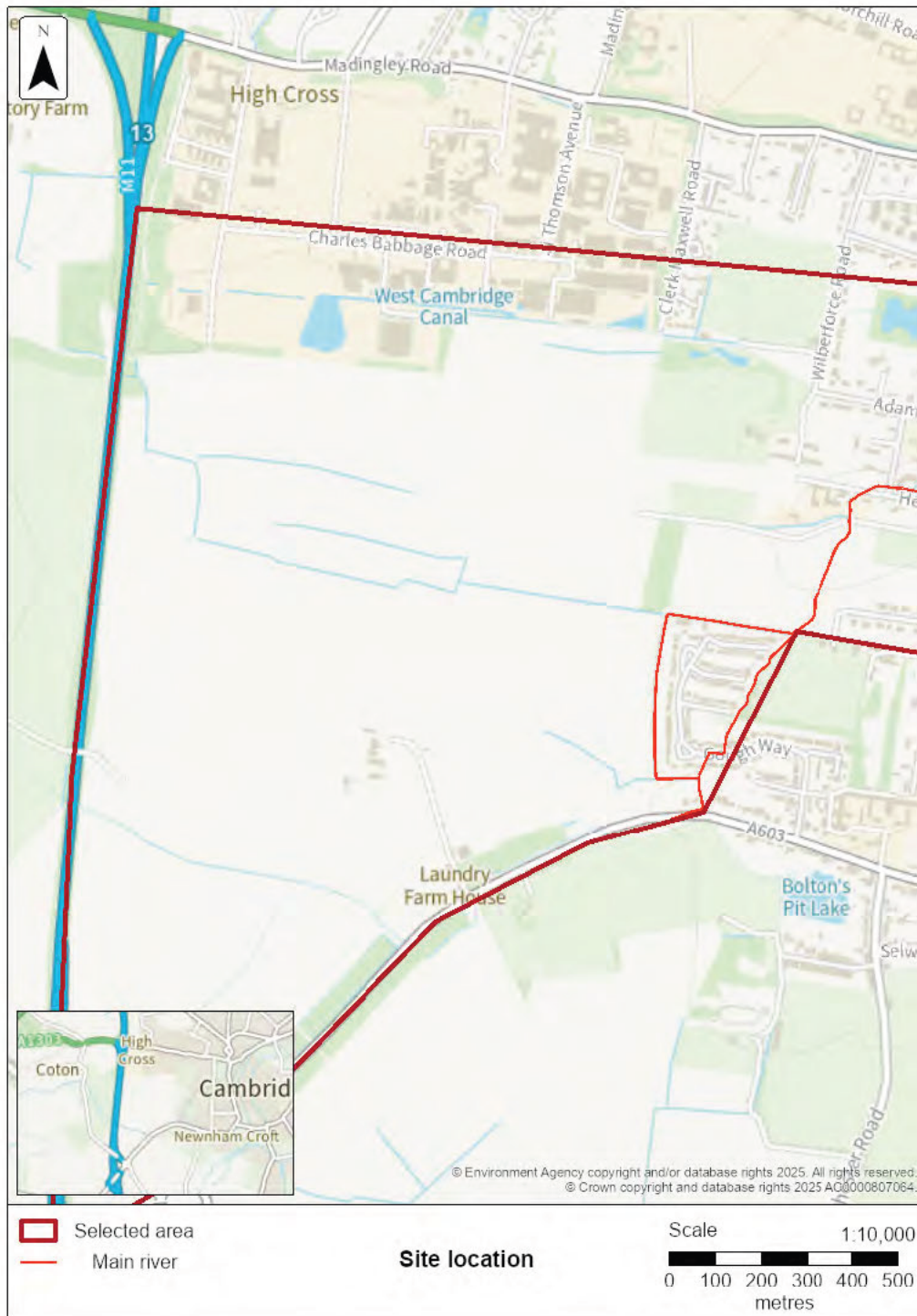
Location of site: 542765 / 258117 (shown as easting and northing coordinates)

Document created on: 27 October 2025

This information was previously known as a product 4.

Customer reference number: 2UKAHVE795GM

Map showing the location that flood risk assessment data has been requested for.



How to use this information

You can use this information as part of a flood risk assessment for a planning application. To do this, you should include it in the appendix of your flood risk assessment.

We recommend that you work with a flood risk consultant to get your flood risk assessment.

Included in this document

In this document you'll find:

- how to find information about surface water and other sources of flooding
- information on the models used
- definitions for the terminology used throughout
- flood map for planning (rivers and the sea)
- past floods
- modelled data
- information about strategic flood risk assessments
- information about this data
- information about flood risk activity permits
- help and advice

Information that's unavailable

This document **does not** contain:

- flood defences and attributes

We aren't able to display flood defence locations and attributes as there are no formal flood defences in the area of interest.

Surface water and other sources of flooding

When using the surface water map on the [check your long term flood risk service](#) the following considerations apply:

- surface water extents are suitable for use in planning
- surface water climate change scenarios may help to inform risk assessments, but the available data fall short of what is required to assess planned development
- surface water depth information should not be used for planning purposes

To find out about other factors that might affect the flood risk of this location, you should also check:

- [reservoir flood risk](#)
- groundwater flood risk - you could use the [British Geological Survey groundwater flooding data](#), [groundwater: current status and flood risk](#) and the guide on [mining and groundwater constraints for development](#) - further information may be available from the lead local flood authority (LLFA)
- your local planning authority's SFRA, which includes future flood risk

Your Lead Local Flood Authority is Cambridgeshire County.

For information about sewer flooding, contact the relevant water company for the area.

About the models used

Model name: EAn_Cam Package_Bin_Brook_JBA_2023

Scenario(s): No defences exist fluvial, no defences exist climate change fluvial

Date: 4 July 2022

This model contains the most relevant data for your area of interest.

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occurring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 3.

Flood zone 3 shows the area at risk of flooding for an undefended flood event with a:

- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change







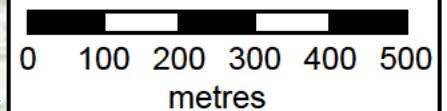
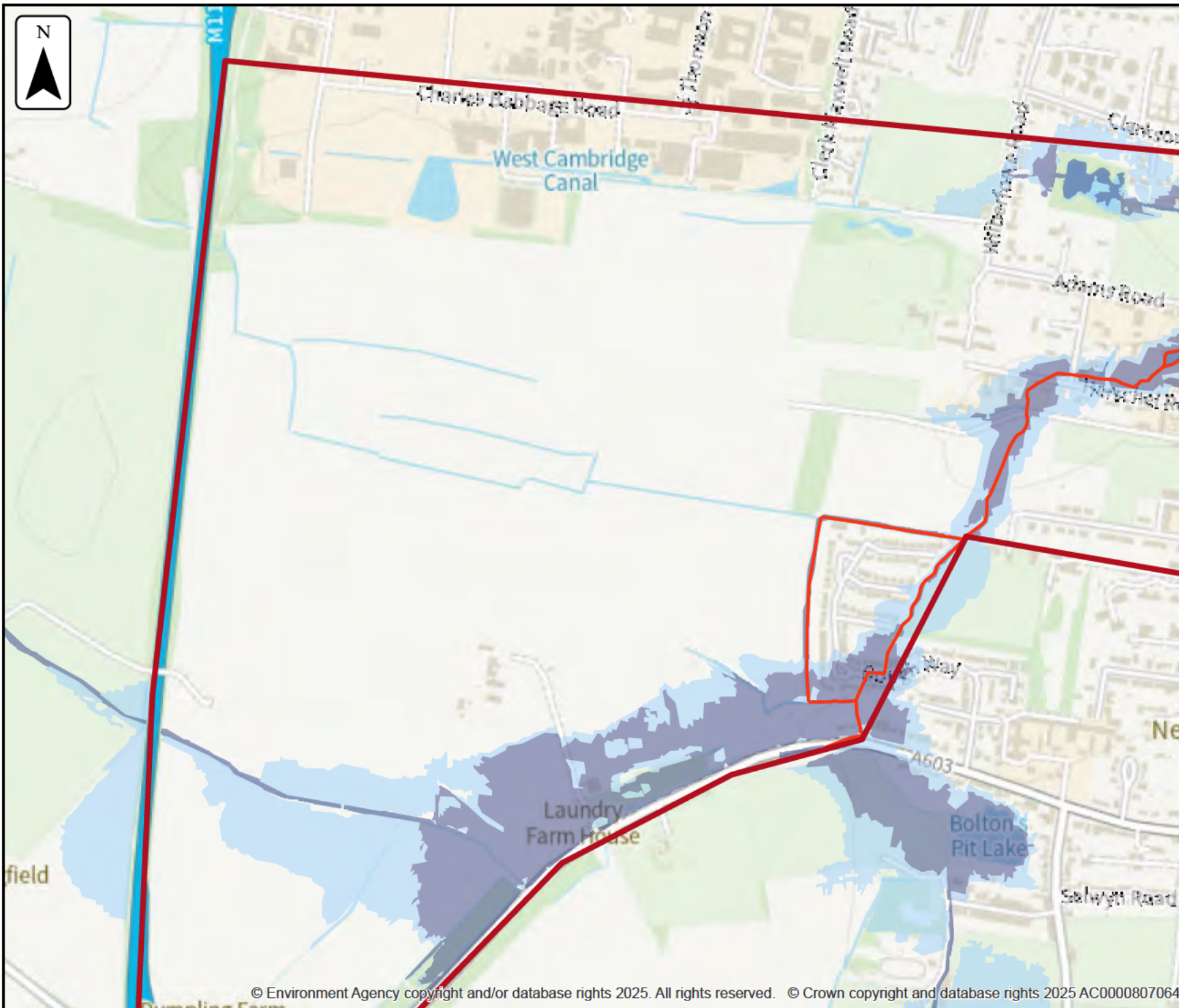
Flood map for planning

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

-  Selected area
-  Main river
-  Flood Zone 3
-  Flood Zone 2



Past floods

Past flood events included in this document

The recorded flood outlines included in this document are for areas of land local to your site location that have been flooded by any of these sources:

- ephemeral water
- main rivers
- ordinary watercourses
- the sea
- unknown

Data limitations

The outlines do not include flooding from:

- drainage where rainfall has led to surface water ponding or overland runoff
- artificial, water-bearing sewer, water supply and wastewater treatment pipelines

Changes to flood defences

The defences (also known as assets) that were in place may also have changed. For example, assets may have been built more recently than the last recorded flood outline.

What the recorded flood outlines dataset is

The recorded flood outlines are a geographical information system (GIS) data layer that show our verified records of areas that have flooded in the past from:

- rivers
- the sea
- groundwater
- surface water

[Download the complete recorded flood outlines dataset](#), which includes data quality flags for outlines recorded after April 2020. This indicates the confidence we have in an outline.

Get flood information from other organisations

Contact Cambridgeshire County Lead Local Flood Authority (LLFA) and your drainage board to get information about past flooding caused by surface water or drainage systems.







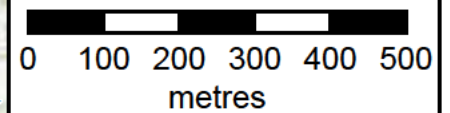
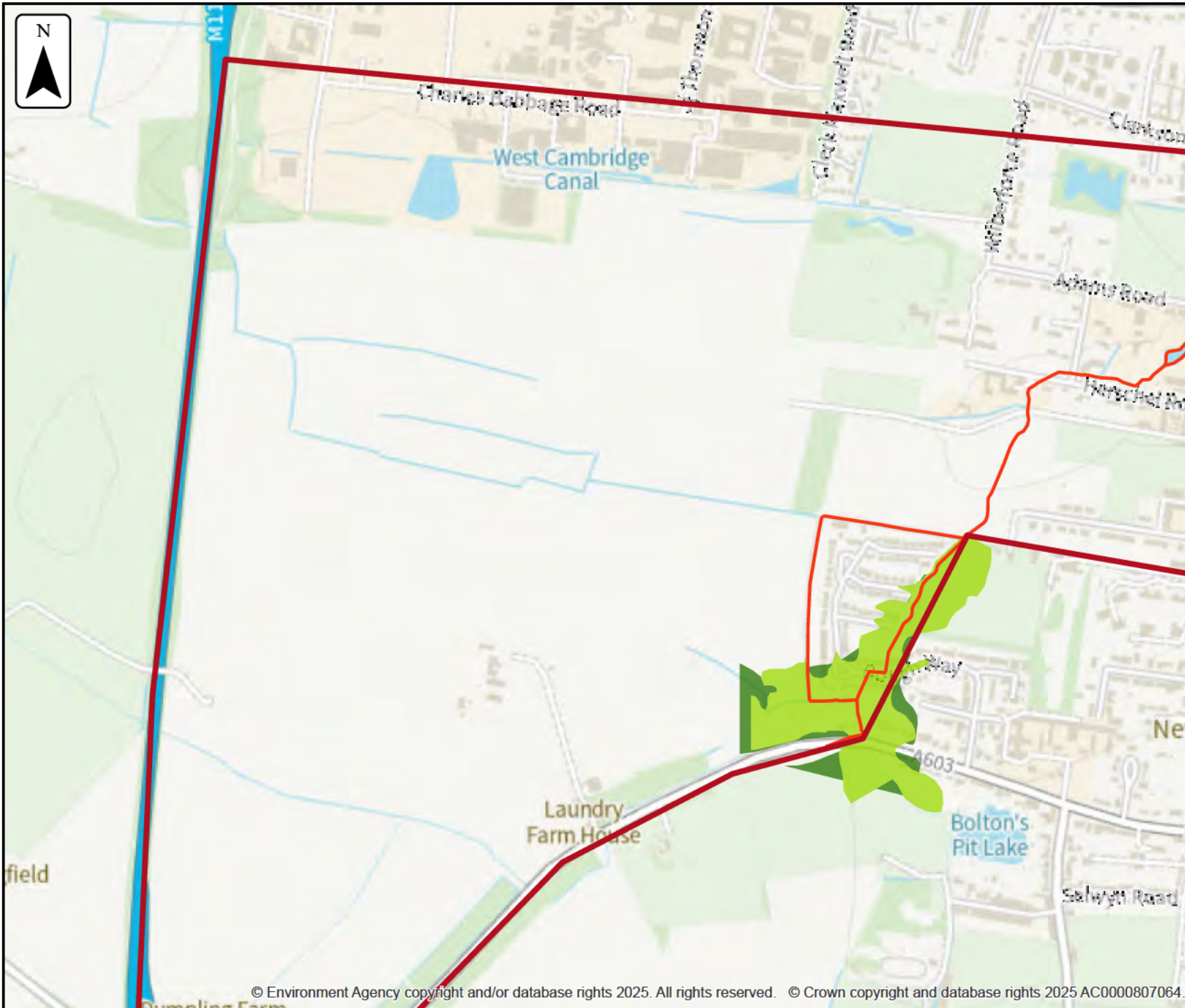
Past floods

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

-  Selected area
-  Main river
- Date of flood event
 -  October, 2001
 -  May, 1978



Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
21 October 2001	23 October 2001	main river	channel capacity exceeded (no raised defences)	Yes
5 May 1978	8 May 1978	unknown	channel capacity exceeded (no raised defences)	Yes

Modelled data

This section provides details of different scenarios we have modelled and includes the following (where available):

- outline maps showing the area at risk from flooding in different modelled scenarios
- modelled node point map(s) showing the points used to get the data to model the scenarios and table(s) providing details of the flood risk for different return periods
- map(s) showing the approximate water levels for the return period with the largest flood extent for a scenario and table(s) of sample points providing details of the flood risk for different return periods

Climate change

The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Modelled scenarios

The following scenarios are included:

- No defences exist modelled fluvial: risk of flooding from rivers where there are no flood defences
- No defences exist climate change modelled fluvial: risk of flooding from rivers where there are no flood defences, including estimated impact of climate change



No defences exist climate change modelled fluvial extent

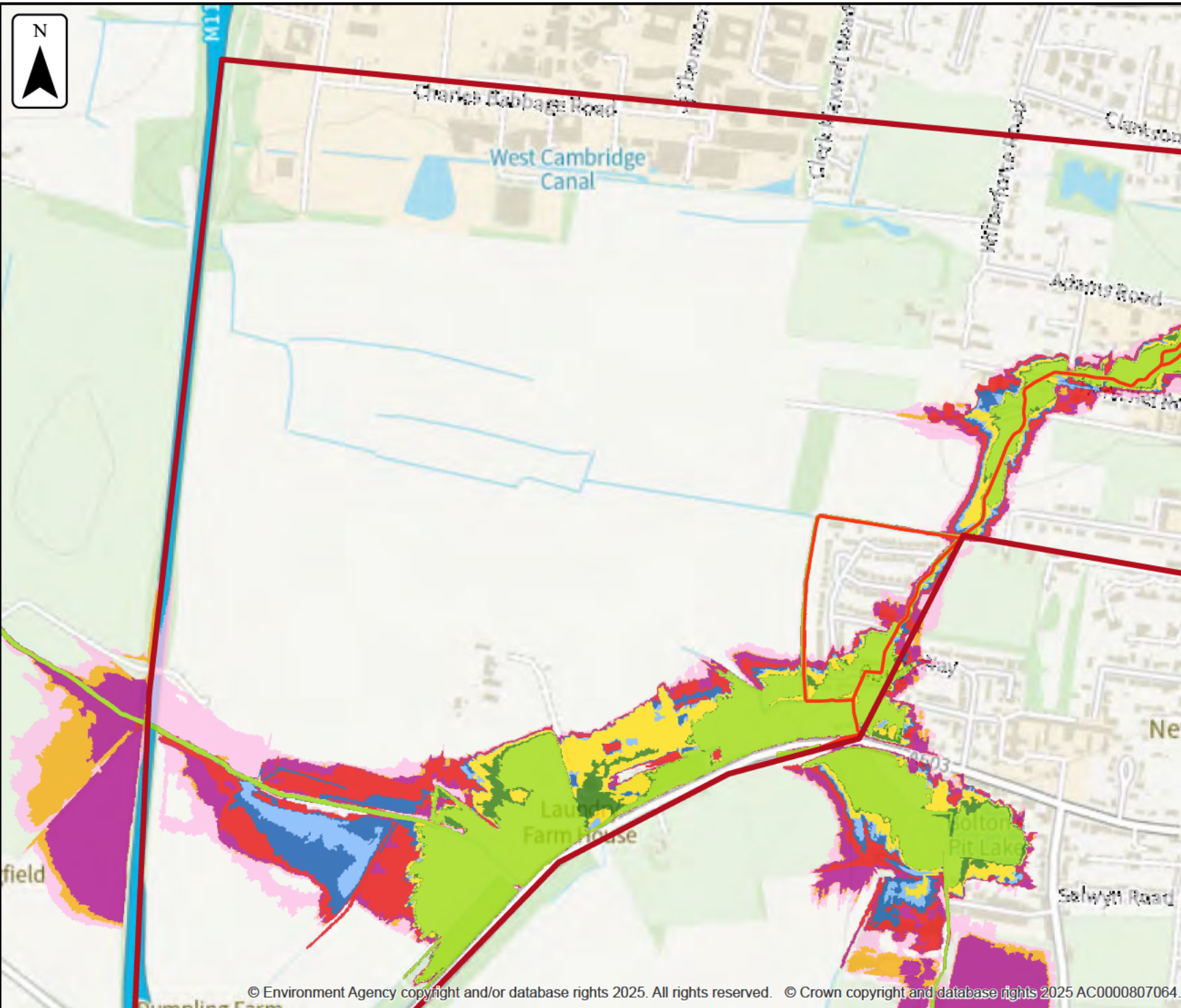
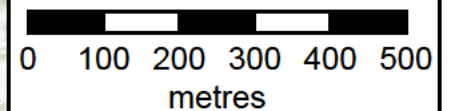
Location (easting/northing)
542765/258117

Scale Created
1:10,000 27 Oct 2025

Model name
**EAn Cam Package Bin
Brook JBA 2023**

- Selected area
- Main river
- Modelled flood extent
- 5% AEP (+9%)
- 5% AEP (+19%)
- 5% AEP (+45%)
- 1% AEP (+9%)
- 1% AEP (+19%)
- 1% AEP (+45%)
- 0.1% AEP (+9%)
- 0.1% AEP (+19%)
- 0.1% AEP (+45%)

Flood extents may not be visible where they overlap other return periods













No defences exist modelled fluvial extent

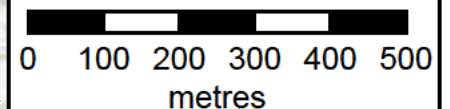
Location (easting/northing)
542765/258117

Scale Created
1:10,000 27 Oct 2025

Model name
**EAn Cam Package Bin
Brook JBA 2023**

-  Selected area
-  Main river
- Modelled flood extent**
-  5% AEP
-  2% AEP
-  1.33% AEP
-  1% AEP
-  0.5% AEP
-  0.1% AEP

Flood extents may not be visible where they overlap other return periods








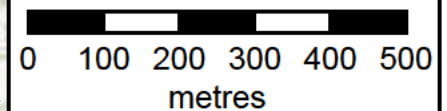
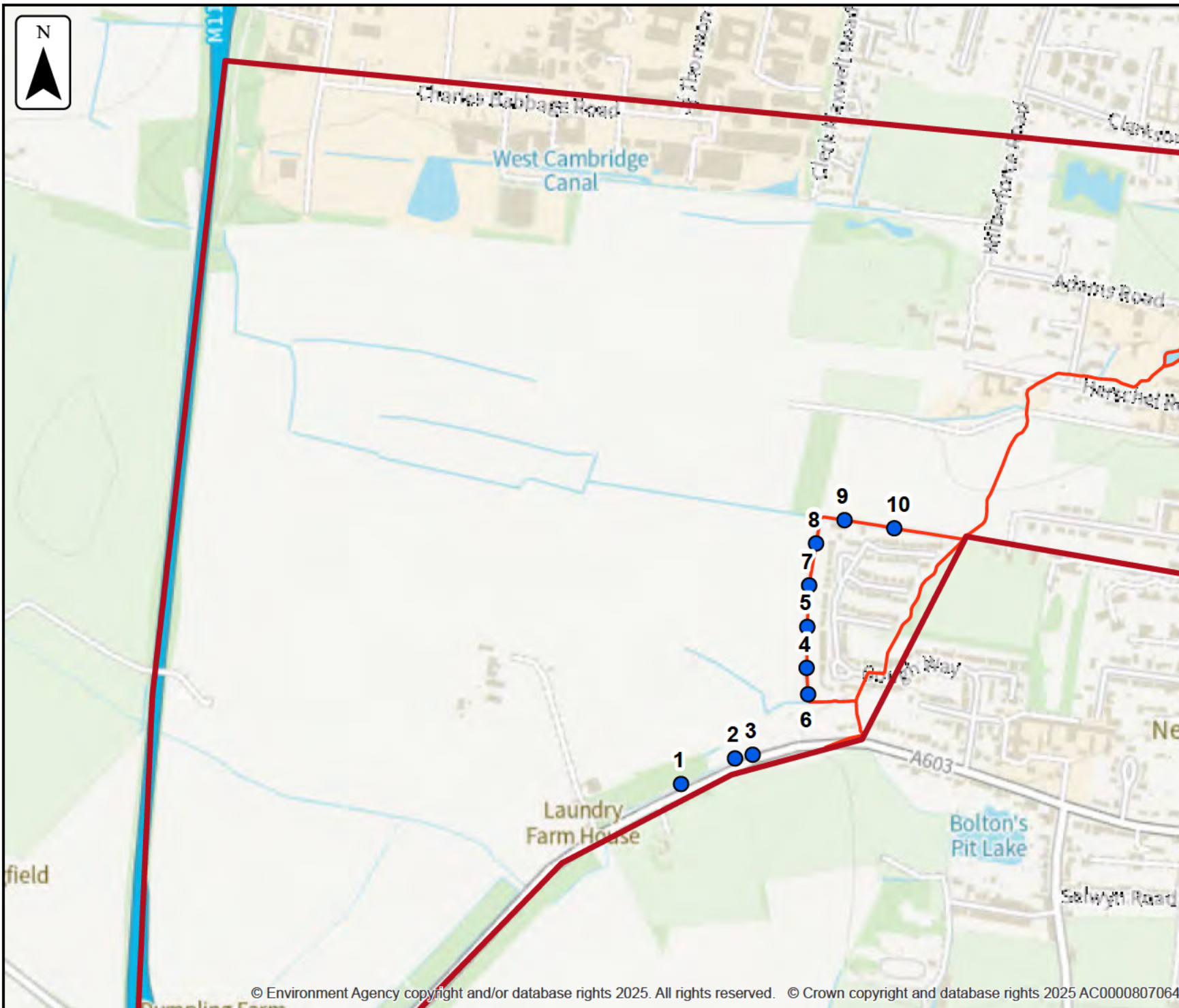
No defences exist climate change modelled fluvial node locations

Location (easting/northing)
542765/258117

Scale Created
1:10,000 27 Oct 2025

Model name
**EAn Cam Package Bin
Brook JBA 2023**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

No defences exist climate change

Label	Modelled location ID	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
				Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1471749	542929	257581	10.62	10.65	10.70	10.70	10.71	10.73	10.76	10.76	10.80
2	1471755	543034	257630	10.31	10.32	10.33	10.33	10.34	10.35	10.38	10.39	10.47
3	1471870	543068	257638	10.29	10.30	10.32	10.32	10.33	10.35	10.39	10.40	10.48
4	1471778	543173	257806	9.83	9.87	9.97	10.0	10.05	10.15	10.28	10.30	10.41
5	1471944	543174	257886	9.79	9.82	9.93	9.95	10.0	10.10	10.21	10.23	10.33
6	1471922	543176	257755	9.87	9.91	10.01	10.04	10.09	10.19	10.30	10.32	10.43
7	1471952	543178	257966	9.73	9.76	9.87	9.89	9.94	10.04	10.15	10.17	10.27
8	1471912	543191	258048	9.67	9.70	9.81	9.83	9.88	9.98	10.08	10.10	10.20
9	1471966	543247	258093	9.57	9.61	9.71	9.73	9.78	9.87	9.97	9.99	10.09
10	1471906	543343	258077	9.27	9.30	9.39	9.42	9.46	9.58	9.69	9.71	9.83

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
 Level values are shown in mAOD, and flow values are shown in cubic metres per second.
 Any blank cells show where a particular scenario has not been modelled for this location.

No defences exist climate change

Label	Modelled location ID	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	
1	1471749	542929	257581	5.29	5.61	6.09	6.14	6.19	6.43	6.75	6.83	7.54
2	1471755	543034	257630	4.32	4.50	4.77	4.80	4.83	4.93	4.96	4.96	4.97
3	1471870	543068	257638	2.82	2.82	2.81	2.81	2.81	2.80	2.78	2.78	2.78
4	1471778	543173	257806	3.20	3.32	3.75	3.84	4.08	4.37	4.43	4.44	4.45
5	1471944	543174	257886	3.20	3.32	3.75	3.84	4.09	4.58	5.22	5.34	5.99
6	1471922	543176	257755	2.35	2.35	2.47	2.48	2.50	2.52	2.56	2.57	2.58
7	1471952	543178	257966	3.20	3.32	3.75	3.84	4.09	4.58	5.22	5.34	5.98
8	1471912	543191	258048	3.20	3.32	3.75	3.84	4.09	4.58	5.21	5.34	5.98
9	1471966	543247	258093	3.20	3.32	3.75	3.84	4.09	4.58	5.21	5.33	5.98
10	1471906	543343	258077	3.20	3.32	3.75	3.84	4.09	4.58	5.21	5.33	5.98

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
 Level values are shown in mAOD, and flow values are shown in cubic metres per second.
 Any blank cells show where a particular scenario has not been modelled for this location.






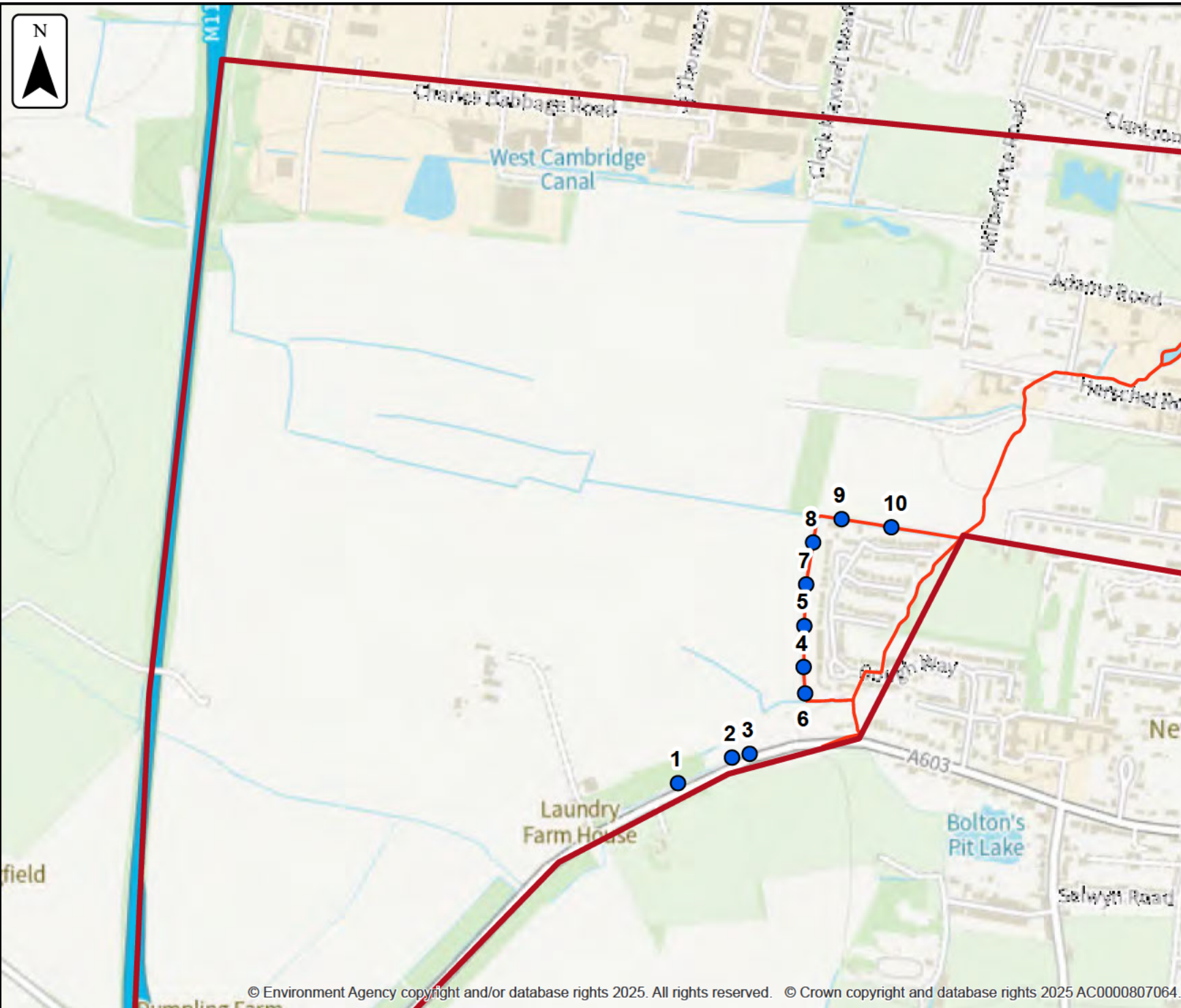
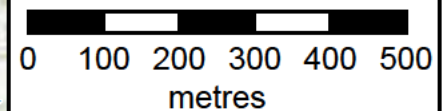
No defences exist modelled fluvial node locations

Location (easting/northing)
542765/258117

Scale Created
1:10,000 27 Oct 2025

Model name
**EAn Cam Package Bin
Brook JBA 2023**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

No defences exist

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1471749	542929	257581	10.13	10.40	10.51	10.58	10.62	10.66	10.68	10.69	10.71	10.75
2	1471755	543034	257630	9.98	10.23	10.28	10.30	10.31	10.32	10.33	10.33	10.34	10.37
3	1471870	543068	257638	9.88	10.17	10.24	10.28	10.29	10.31	10.31	10.32	10.33	10.38
4	1471778	543173	257806	9.08	9.40	9.62	9.78	9.84	9.88	9.93	9.95	10.07	10.25
5	1471944	543174	257886	9.04	9.36	9.58	9.73	9.79	9.84	9.88	9.91	10.02	10.19
6	1471922	543176	257755	9.12	9.45	9.67	9.82	9.88	9.92	9.97	9.99	10.11	10.28
7	1471952	543178	257966	9.0	9.31	9.53	9.68	9.73	9.78	9.82	9.85	9.96	10.12
8	1471912	543191	258048	8.95	9.26	9.47	9.62	9.67	9.72	9.76	9.78	9.90	10.06
9	1471966	543247	258093	8.88	9.18	9.39	9.53	9.58	9.62	9.66	9.68	9.79	9.95
10	1471906	543343	258077	8.64	8.91	9.09	9.23	9.28	9.32	9.36	9.37	9.48	9.67

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
 Level values are shown in mAOD, and flow values are shown in cubic metres per second.
 Any blank cells show where a particular scenario has not been modelled for this location.

No defences exist

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1471749	542929	257581	2.56	3.41	4.22	4.93	5.31	5.74	5.97	6.05	6.21	6.66
2	1471755	543034	257630	2.56	3.11	3.67	4.11	4.33	4.57	4.70	4.74	4.84	4.96
3	1471870	543068	257638	2.56	2.92	2.87	2.83	2.82	2.81	2.81	2.81	2.81	2.78
4	1471778	543173	257806	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.15	4.41
5	1471944	543174	257886	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.08
6	1471922	543176	257755	1.27	1.90	2.19	2.34	2.35	2.36	2.44	2.46	2.50	2.55
7	1471952	543178	257966	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.07
8	1471912	543191	258048	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.07
9	1471966	543247	258093	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.07
10	1471906	543343	258077	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.06

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
 Level values are shown in mAOD, and flow values are shown in cubic metres per second.
 Any blank cells show where a particular scenario has not been modelled for this location.



No defences exist modelled fluvial extent and height

Location (easting/northing)
542765/258117

Scale Created
1:10,000 27 Oct 2025

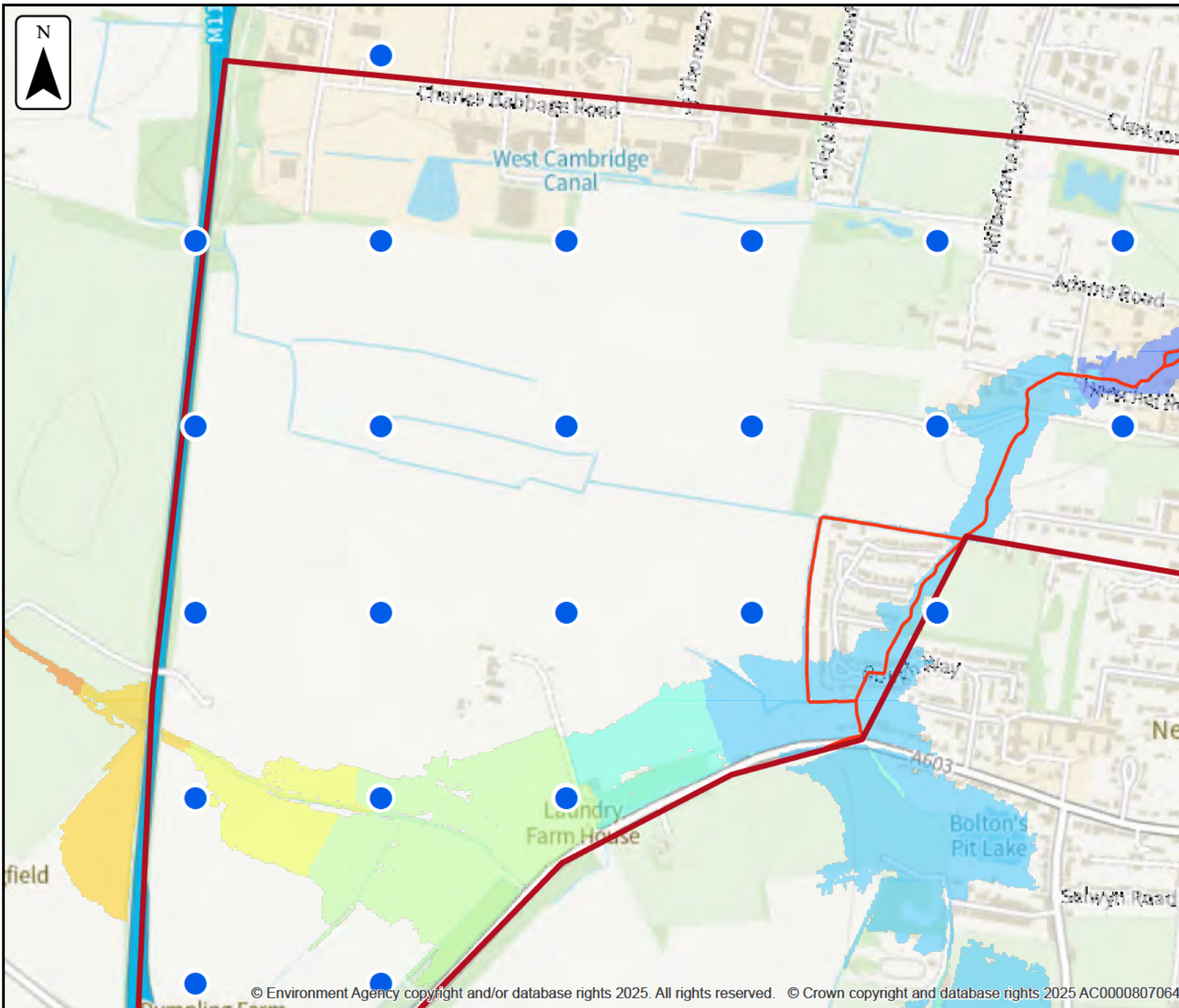
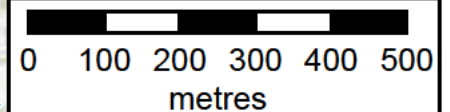
Model name
EAn Cam Package Bin Brook JBA 2023

- Selected area
- Main river

Modelled 2D grid
Water level in mAOD

- 7 - 8.125
- 8.125 - 9.25
- 9.25 - 10.375
- 10.375 - 11.5
- 11.5 - 12.625
- 12.625 - 13.75
- 13.75 - 14.875
- 14.875 - 16.0
- 16.0 - 17.125

This map shows the 0.1% AEP height data



Sample point data

No defences exist

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	542347	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	12.36	12.45
6	542707	257554	NoData	NoData	11.39	11.47	11.52	11.59	11.63	11.64	11.68	11.73
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
Max value in selected area:			12.90	13.10	13.23	13.35	13.42	13.51	13.58	13.61	13.77	13.95

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

No defences exist

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	542347	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.03	0.12
6	542707	257554	NoData	NoData	0.19	0.27	0.32	0.39	0.43	0.44	0.48	0.53
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
Max value in selected area:			3.04	3.33	3.47	3.49	3.49	3.55	3.62	3.64	3.83	4.19

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.





No defences exist climate change modelled fluvial extent and height

Location (easting/northing)
542765/258117










Scale Created
1:10,000 27 Oct 2025

Model name
**EAn Cam Package Bin
Brook JBA 2023**

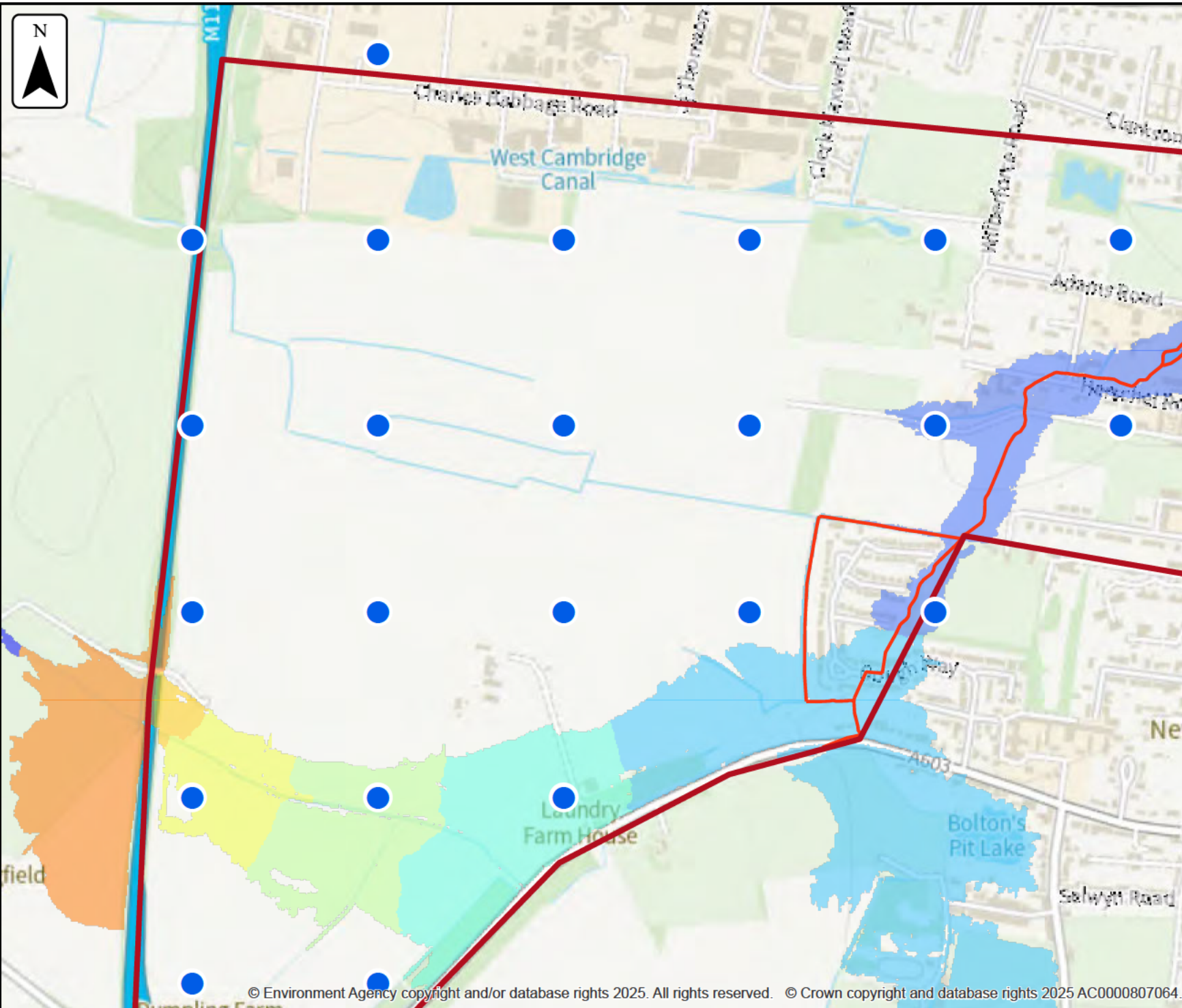
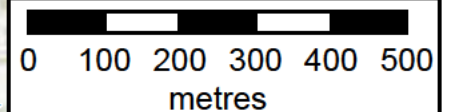
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD

-  8 - 9.0
-  9.0 - 10.0
-  10.0 - 11.0
-  11.0 - 12.0
-  12.0 - 13.0
-  13.0 - 14.0
-  14.0 - 15.0
-  15.0 - 16.0
-  16.0 - 17.0

This map shows the
0.1% AEP +45% height data



Sample point data

No defences exist climate change

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Height	Height	Height	Height	Height	Height	Height	Height	Height
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	13.53
5	542347	257554	NoData	NoData	NoData	NoData	12.34	12.41	12.45	12.46	12.51
6	542707	257554	11.52	11.57	11.65	11.66	11.67	11.71	11.74	11.74	11.79
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	9.93
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Height	Height	Height	Height	Height	Height	Height	Height	Height
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	9.64
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Height	Height	Height	Height	Height	Height	Height	Height	Height
Max value in selected area:			13.41	13.48	13.64	13.68	13.74	13.88	13.98	14.95	15.14

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

No defences exist climate change

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.01
5	542347	257554	NoData	NoData	NoData	NoData	0.01	0.09	0.13	0.14	0.18
6	542707	257554	0.32	0.38	0.45	0.46	0.47	0.51	0.54	0.55	0.59
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.06
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.13
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
Max value in selected area:			3.49	3.52	3.68	3.72	3.80	4.01	4.22	4.25	4.73

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Strategic flood risk assessments

We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment.

This should give you information about:

- the potential impacts of climate change in this catchment
- areas defined as functional floodplain
- flooding from other sources, such as surface water, ground water and reservoirs

Your Lead Local Flood Authority is Cambridgeshire County.

About this data

This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

Flood risk activity permits

Under the Environmental Permitting (England and Wales) Regulations 2016 some developments may require an environmental permit for flood risk activities from the Environment Agency. This includes any permanent or temporary works that are in, over, under, or nearby a designated main river or flood defence structure.

[Find out more about flood risk activity permits](#)

Help and advice

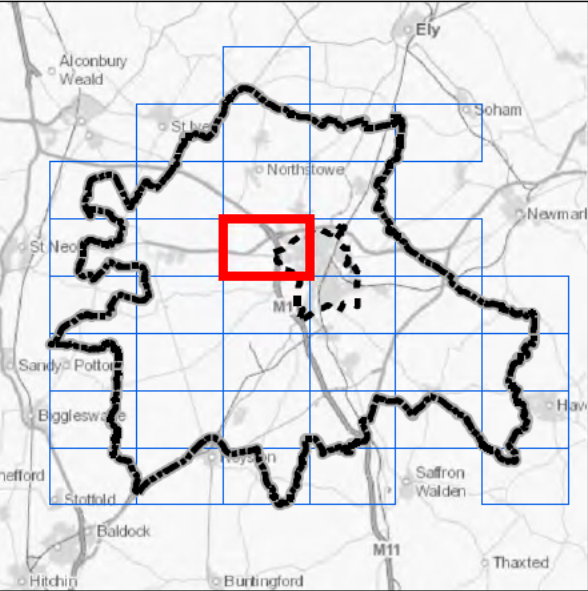
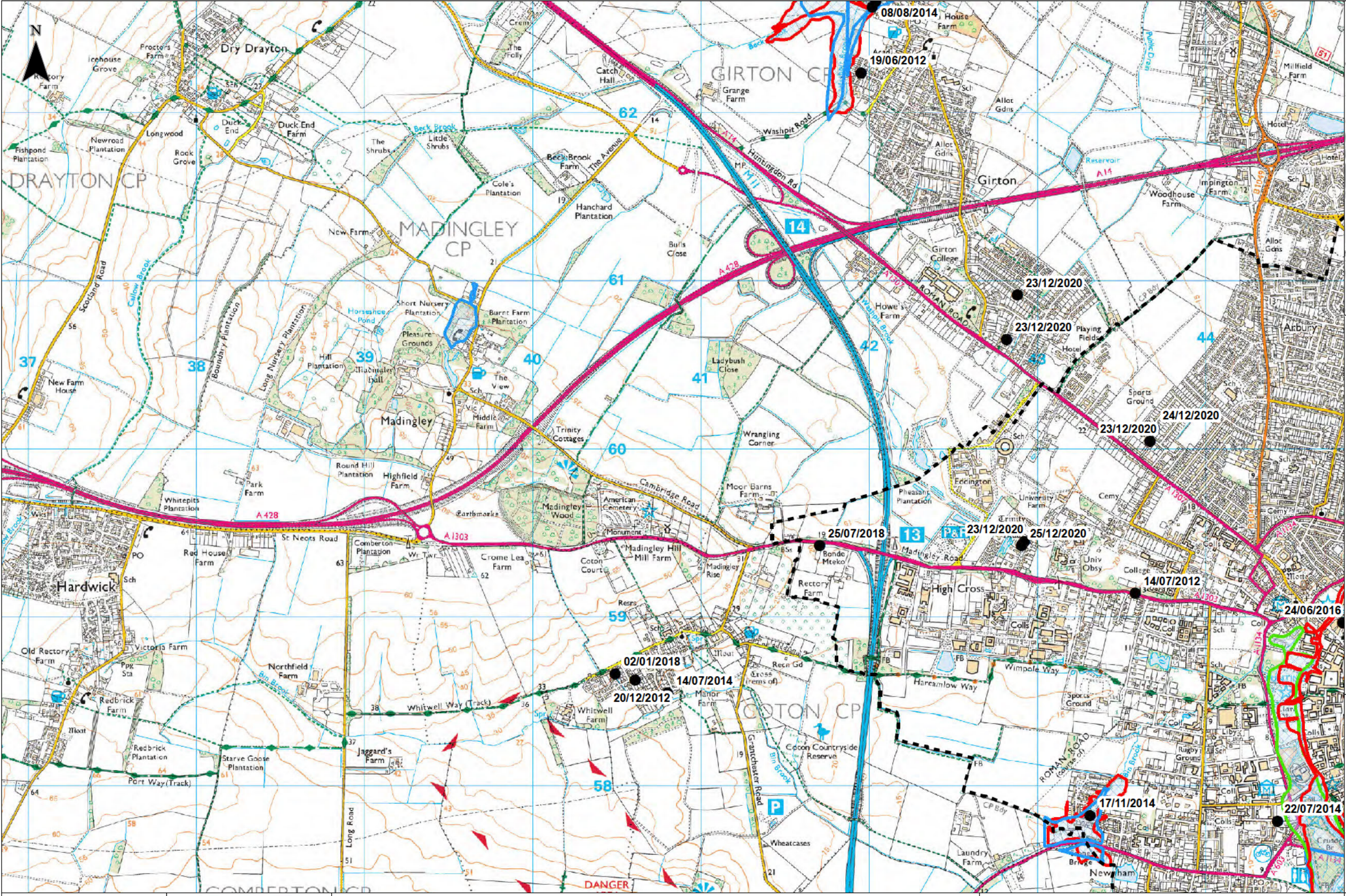
Contact the East Anglia Environment Agency team at enquiries_eastanglia@environment-agency.gov.uk for:

- [more information about getting a product 5, 6, 7 or 8](#)
- general help and advice about the site you're requesting data for

Appendix F SFRA Historical Flood Map



Project Number: 331610058



Legend

Study Area

- Cambridge City Boundary
- South Cambridgeshire Boundary

Recorded Flood Outlines

- October 2001
- May 1978
- March 1947
- Flooded Area
- Reported Flood Incident

Notes

The Historic Flooding map shows the recorded flood outline of historic flooding from rivers, the sea, groundwater and surface water. The data is produced by the Environment Agency (EA) and is based on their records of flooding, which date back to 1946 with limited details of events prior to this. It takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, as well as flood extents that may have been affected by overtopping, breaches or blockages.

It should be noted that even if an area on the map is shown to not have been previously flooded, it is possible this may be false due to there being no records of past flooding in the area. Moreover, it is possible the nature of flooding in certain areas has changed resulting in the area now not subject to flooding, possibly if a flood defence has been constructed.



Greater Cambridge Integrated Water Management Study
Historic Flooding

0 1 2 km

Contains OS data © Crown Copyright and database right 2020
 © Crown copyright and database rights 2020 OS 100022500.
 Contains EA data © Environment Agency copyright and database right 2018. All rights reserved.

Sheet Number: 1:23,980 @ A3 Date: 26/07/2021

12 of 37 Drawn: MD Checked: PJ

Figure: 48444/4005/GIS026 Rev A

Appendix G Greenfield Runoff Calcs



Project Number: 331610058

FEH Greenfield Runoff Per Hectare

Using 2008 QMED Equation



Project Title	Land North of Barton Road, Cambridge
Project No	47115

Methodology as set out in SuDS Manual 24.3.2

[SUFS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Export catchment data from FEH CDROM as .csv file and save in FEH data export

Catchment Descriptors	BFIHOST	0.280	see note 1
	SAAR	538.0	see note 1
	FARL	1.0	see note 2

2 Derive QBAR (mean annual flood)

Define area	Site Area	1.0	ha	
	Applied Area	50.0	ha	see note 3
FEH Index Flood (SuDS Manual Equation 24.2)	QMED (Q ₂)	2.2	l/s	see note 4
Calculate QBAR by dividing QMED by 2yr growth factor	QBAR	2.5	l/s	see note 5

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	GQ ₁₀₀	3.56
30yr Growth Curve Factor	GQ ₃₀	2.55
10yr Growth Curve Factor	GQ ₁₀	1.65
2yr Growth Curve Factor	GQ ₂	0.89
1yr Growth Curve Factor	GQ ₁	0.87

(refer to FSR Hydrological Region tab)



Figure 24.1 Hydrological areas

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q ₁₀₀	8.9	l/s	Q ₁₀₀	8.9	l/s/ha
30yr Peak Runoff Rate	Q ₃₀	6.4	l/s	Q ₃₀	6.4	l/s/ha
10yr Growth Curve Factor	Q ₁₀	4.1	l/s	Q ₁₀	4.1	l/s/ha
QBAR Peak Runoff Rate	QBAR	2.5	l/s	QBAR	2.5	l/s/ha
2yr Peak Runoff Rate	Q ₂	2.2	l/s	Q ₂	2.2	l/s/ha
1yr Peak Runoff Rate	Q ₁	2.2	l/s	Q ₁	2.2	l/s/ha

Location of FEH Data (as Hyperlink)



DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
	Main Site excluding north-east area	MJH	17.09.19	CW	18.09.19

Sheet created by Alex Bearne

Last updated 03.01.18 Recommended Review 01.07.18

Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact the owner.

Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should only very occasionally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see *Manual Derivation of BFIHOST tab*).

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
[Rainfall runoff management for developments.pdf](#)

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} \cdot 0.1536^{(1000/SAAR)} \cdot FARL^{3.4451} \cdot 0.0460^{BFIHOST^2}$$

[Rainfall runoff management for developments.pdf](#)

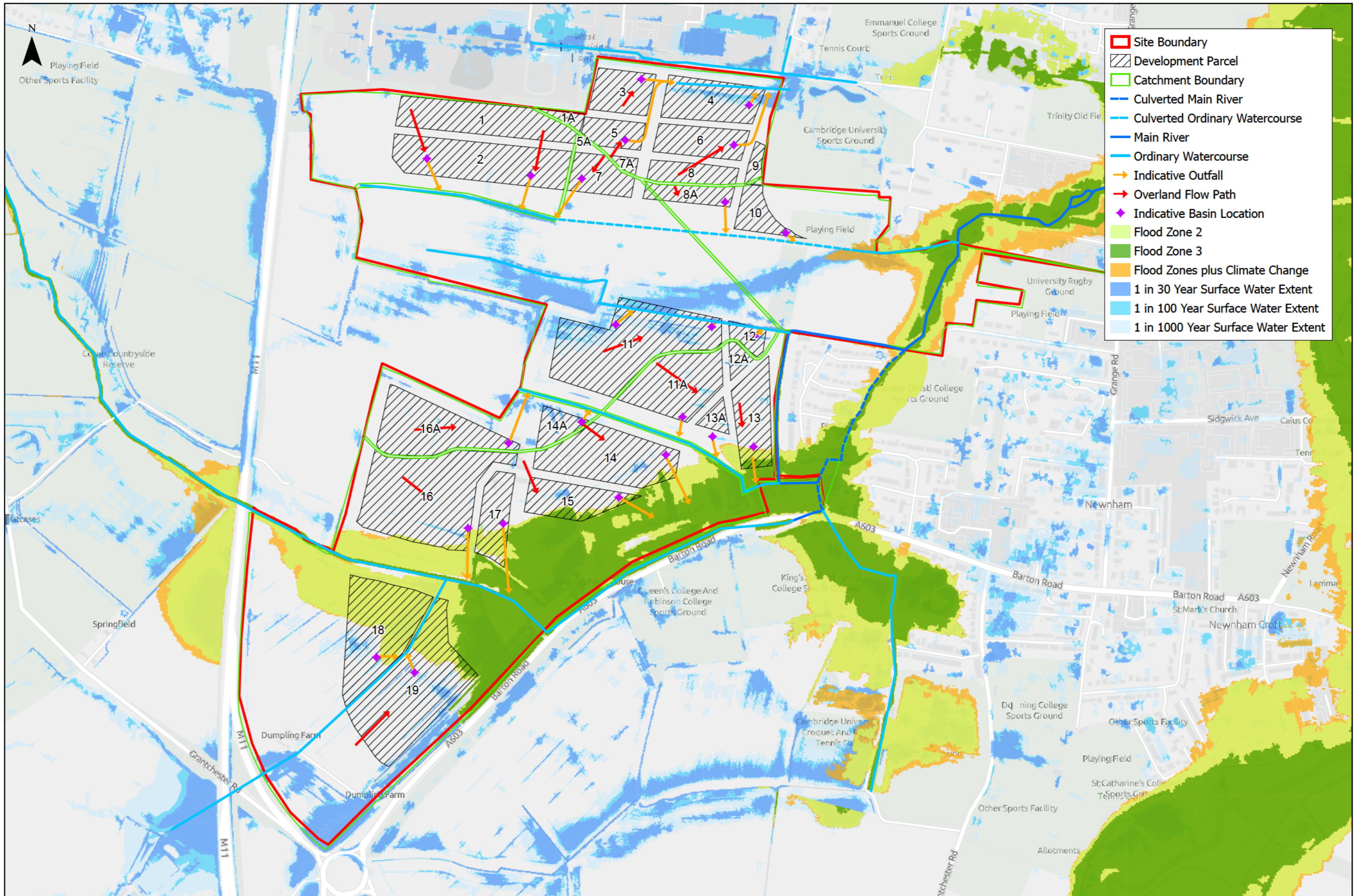
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments'. QBAR is then used as the index flood for the basis of applying the growth factors.

Appendix H High Level Drainage Strategy Drawing & QSE Calcs



Project Number: 331610058



- Site Boundary
- Development Parcel
- Catchment Boundary
- Culverted Main River
- Culverted Ordinary Watercourse
- Main River
- Ordinary Watercourse
- Indicative Outfall
- Overland Flow Path
- ◆ Indicative Basin Location
- Flood Zone 2
- Flood Zone 3
- Flood Zones plus Climate Change
- 1 in 30 Year Surface Water Extent
- 1 in 100 Year Surface Water Extent
- 1 in 1000 Year Surface Water Extent



Client
St Johns College

South West Cambridge
High Level Surface Water Drainage

0 250 500
m
GB Light Grey: Contains OS data © Crown Copyright and database right 2025
Contains data from OS Zoomstack

1:8,000 @ A3	Date: 28/11/2025
Drawn: JB	Checked: RF
Figure: 12	Rev A

Quick Storage Calculations

Attenuation requirement per impermeable hectare

The screenshot shows the 'Quick Storage Estimate' software window with the 'Variables' tab selected. The interface includes a sidebar with navigation options: Variables, Results, Design, Overview 2D, Overview 3D, and Vt. The main area contains the following settings:

Parameter	Value
FEH Rainfall	FEH Rainfall
Return Period (years)	100
Version	2013
Point	Point
Site	GB 542517 258005
Cv (Summer)	1.000
Cv (Winter)	1.000
Impermeable Area (ha)	1.000
Maximum Allowable Discharge (l/s)	2.5
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help. A footer note reads: 'Enter Climate Change between -100 and 600'.

The screenshot shows the 'Quick Storage Estimate' software window with the 'Results' tab selected. The main area displays the following text:

Global Variables require approximate storage of between 1075 m³ and 1368 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help. A footer note reads: 'Enter Climate Change between -100 and 600'.

Quick Storage Calculations by development parcel

See Drawing No: Figure 12 for locations of Parcels

Parcel 1

The screenshot shows the 'Quick Storage Estimate' software window with the 'Variables' tab selected. The interface includes a sidebar with navigation options: Variables, Results, Design, Overview 2D, Overview 3D, and Vt. The main area contains the following variables and their values:

Variable	Value
FEH Rainfall	FEH Rainfall
Return Period (years)	100
Version	2013
Point	Point
Site	GB 542517 258005
Cv (Summer)	1.000
Cv (Winter)	1.000
Impemeable Area (ha)	1.863
Maximum Allowable Discharge (l/s)	4.7
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help. A status bar at the bottom reads: Enter Return Period between 2 and 1000.

The screenshot shows the 'Quick Storage Estimate' software window with the 'Results' tab selected. The main area displays the following text:

Global Variables require approximate storage of between 2001 m³ and 2542 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help. A status bar at the bottom reads: Enter Return Period between 2 and 1000.

Parcel 1A

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area contains the following settings:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years): 100	Cv (Winter)	1.000
Version: 2013	Impemeable Area (ha)	0.152
Point	Maximum Allowable Discharge (l/s)	0.4
Site: GB 542517 258005	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following results:

Global Variables require approximate storage of between 162 m³ and 205 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 2

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 2.438

Maximum Allowable Discharge (l/s) 6.1

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 2622 m³ and 3335 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 3

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.898

Maximum Allowable Discharge (l/s) 2.2

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 968 m³ and 1236 m³.
These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 4

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is titled 'Variables' and contains the following fields:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years) 100	Cv (Winter)	1.000
Version 2013 Point	Impemeable Area (ha)	1.390
Site GB 542517 258005	Maximum Allowable Discharge (l/s)	3.5
	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

At the bottom of the dialog are buttons for 'Analyse', 'OK', 'Cancel', and 'Help'. A status bar at the very bottom reads: 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar now has 'Results' highlighted. The main area is titled 'Results' and contains the following text:

Global Variables require approximate storage of between 1494 m³ and 1898 m³.

These values are estimates only and should not be used for design purposes.

At the bottom of the dialog are buttons for 'Analyse', 'OK', 'Cancel', and 'Help'. A status bar at the very bottom reads: 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

Parcel 5

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The interface includes a sidebar with navigation options: Variables, Results, Design, Overview 2D, Overview 3D, and Vt. The main area contains the following settings:

Parameter	Value
FEH Rainfall	FEH Rainfall
Return Period (years)	100
Version	2013
Point	Point
Site	GB 542517 258005
Cv (Summer)	1.000
Cv (Winter)	1.000
Impemeable Area (ha)	0.574
Maximum Allowable Discharge (l/s)	1.4
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer text: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The sidebar navigation options are the same as in the previous screenshot. The main area displays the following results:

Global Variables require approximate storage of between 619 m³ and 791 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer text: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 5A

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.020

Maximum Allowable Discharge (l/s) 0.1

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 19 m³ and 23 m³.
These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 6

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.972

Maximum Allowable Discharge (l/s) 2.4

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 1047 m³ and 1335 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 7

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is divided into two columns. The left column contains input fields for 'FEH Rainfall' (a dropdown menu), 'Return Period (years)' (100), 'Version' (2013), 'Point' (a button), and 'Site' (GB 542517 258005). The right column contains output fields for 'Cv (Summer)' (1.000), 'Cv (Winter)' (1.000), 'Impervious Area (ha)' (0.767), 'Maximum Allowable Discharge (l/s)' (1.9), 'Infiltration Coefficient (m/hr)' (0.00000), 'Safety Factor' (2.0), and 'Climate Change (%)' (40). At the bottom, there are 'Analyse', 'OK', 'Cancel', and 'Help' buttons. A status bar at the very bottom reads 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

Variable	Value
FEH Rainfall	FEH Rainfall
Return Period (years)	100
Version	2013
Point	Point
Site	GB 542517 258005
Cv (Summer)	1.000
Cv (Winter)	1.000
Impervious Area (ha)	0.767
Maximum Allowable Discharge (l/s)	1.9
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following text: 'Global Variables require approximate storage of between 826 m³ and 1052 m³. These values are estimates only and should not be used for design purposes.' At the bottom, there are 'Analyse', 'OK', 'Cancel', and 'Help' buttons. A status bar at the very bottom reads 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

Global Variables require approximate storage of between 826 m³ and 1052 m³.
These values are estimates only and should not be used for design purposes.

Parcel 7A

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.112

Maximum Allowable Discharge (l/s) 0.3

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 119 m³ and 150 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 8

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.631

Maximum Allowable Discharge (l/s) 1.6

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 677 m³ and 860 m³.
These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 8A

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impervious Area (ha) 0.556

Maximum Allowable Discharge (l/s) 1.4

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 597 m³ and 759 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 9

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.249

Maximum Allowable Discharge (l/s) 0.6

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 269 m³ and 344 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 10

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is titled 'Variables' and contains the following fields:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years): 100	Cv (Winter)	1.000
Version: 2013	Impemeable Area (ha)	0.706
Point	Maximum Allowable Discharge (l/s)	1.8
Site: GB 542517 258005	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is titled 'Results' and contains the following text:

Global Variables require approximate storage of between 757 m³ and 960 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 11

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area contains the following fields:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years) 100	Cv (Winter)	1.000
Version 2013 Point	Impemeable Area (ha)	3.465
Site GB 542517 258005	Maximum Allowable Discharge (l/s)	8.7
	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following text:

Global Variables require approximate storage of between 3725 m³ and 4735 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 11A

Variable	Value
FEH Rainfall	[Dropdown]
Return Period (years)	100
Version	2013
Point	[Button]
Site	GB 542517 258005
Cv (Summer)	1.000
Cv (Winter)	1.000
Impemeable Area (ha)	1.766
Maximum Allowable Discharge (l/s)	4.4
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

Global Variables require approximate storage of between 1900 m³ and 2419 m³.

These values are estimates only and should not be used for design purposes.

Parcel 12

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.289

Maximum Allowable Discharge (l/s) 0.7

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 312 m³ and 399 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 12A

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.189

Maximum Allowable Discharge (l/s) 0.5

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 202 m³ and 254 m³.
These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 13

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 1.218

Maximum Allowable Discharge (l/s) 3.0

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 1312 m³ and 1674 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 13A

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.221

Maximum Allowable Discharge (l/s) 0.6

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 235 m³ and 295 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 14

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area contains the following settings:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years): 100	Cv (Winter)	1.000
Version: 2013	Impemeable Area (ha)	2.179
Point	Maximum Allowable Discharge (l/s)	5.4
Site: GB 542517 258005	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following results:

Global Variables require approximate storage of between 2346 m³ and 2989 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 14A

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.427

Maximum Allowable Discharge (l/s) 1.1

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 457 m³ and 579 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 15

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is divided into two columns. The left column contains: 'FEH Rainfall' (dropdown), 'Return Period (years)' (100), 'Version' (2013), 'Point' (button), and 'Site' (GB 542517 258005). The right column contains: 'Cv (Summer)' (1.000), 'Cv (Winter)' (1.000), 'Impemeable Area (ha)' (1.099), 'Maximum Allowable Discharge (l/s)' (2.7), 'Infiltration Coefficient (m/hr)' (0.00000), 'Safety Factor' (2.0), and 'Climate Change (%)' (40). At the bottom are 'Analyse', 'OK', 'Cancel', and 'Help' buttons. A footer note reads: 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

Variable	Value
FEH Rainfall	FEH Rainfall
Return Period (years)	100
Version	2013
Point	Point
Site	GB 542517 258005
Cv (Summer)	1.000
Cv (Winter)	1.000
Impemeable Area (ha)	1.099
Maximum Allowable Discharge (l/s)	2.7
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following text: 'Global Variables require approximate storage of between 1185 m³ and 1511 m³. These values are estimates only and should not be used for design purposes.' At the bottom are 'Analyse', 'OK', 'Cancel', and 'Help' buttons. A footer note reads: 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

Parcel 16

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area contains the following fields:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years): 100	Cv (Winter)	1.000
Version: 2013	Impemeable Area (ha)	3.636
Point	Maximum Allowable Discharge (l/s)	9.1
Site: GB 542517 258005	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following text:

Global Variables require approximate storage of between 3910 m³ and 4973 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 16A

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is titled 'Variables' and contains the following fields:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years): 100	Cv (Winter)	1.000
Version: 2013	Impemeable Area (ha)	1.941
Point	Maximum Allowable Discharge (l/s)	4.9
Site: GB 542517 258005	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area is titled 'Results' and contains the following text:

Global Variables require approximate storage of between 2085 m³ and 2648 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 17

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 0.906

Maximum Allowable Discharge (l/s) 2.3

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 972 m³ and 1234 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 18

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Variables' tab selected. The left sidebar contains a vertical menu with options: Variables (highlighted), Results, Design, Overview 2D, Overview 3D, and Vt. The main area is titled 'Variables' and contains the following fields:

FEH Rainfall	Cv (Summer)	1.000
Return Period (years): 100	Cv (Winter)	1.000
Version: 2013	Impemeable Area (ha)	2.436
Point	Maximum Allowable Discharge (l/s)	6.1
Site: GB 542517 258005	Infiltration Coefficient (m/hr)	0.00000
	Safety Factor	2.0
	Climate Change (%)	40

At the bottom of the dialog are buttons for 'Analyse', 'OK', 'Cancel', and 'Help'. A status bar at the very bottom reads: 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

The screenshot shows the 'Quick Storage Estimate' dialog box with the 'Results' tab selected. The left sidebar menu is the same as in the previous image, but 'Results' is now highlighted. The main area is titled 'Results' and contains the following text:

Global Variables require approximate storage of between 2619 m³ and 3331 m³.

These values are estimates only and should not be used for design purposes.

At the bottom of the dialog are buttons for 'Analyse', 'OK', 'Cancel', and 'Help'. The status bar at the very bottom is identical to the previous image: 'Enter Maximum Allowable Discharge between 0.0 and 999999.0'.

Parcel 19

Quick Storage Estimate

Micro Drainage

Variables

FEH Rainfall

Return Period (years) 100

Version 2013 Point ...

Site GB 542517 258005

Cv (Summer) 1.000

Cv (Winter) 1.000

Impemeable Area (ha) 3.456

Maximum Allowable Discharge (l/s) 8.6

Infiltration Coefficient (m/hr) 0.00000

Safety Factor 2.0

Climate Change (%) 40

Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 3719 m³ and 4735 m³.
These values are estimates only and should not be used for design purposes.

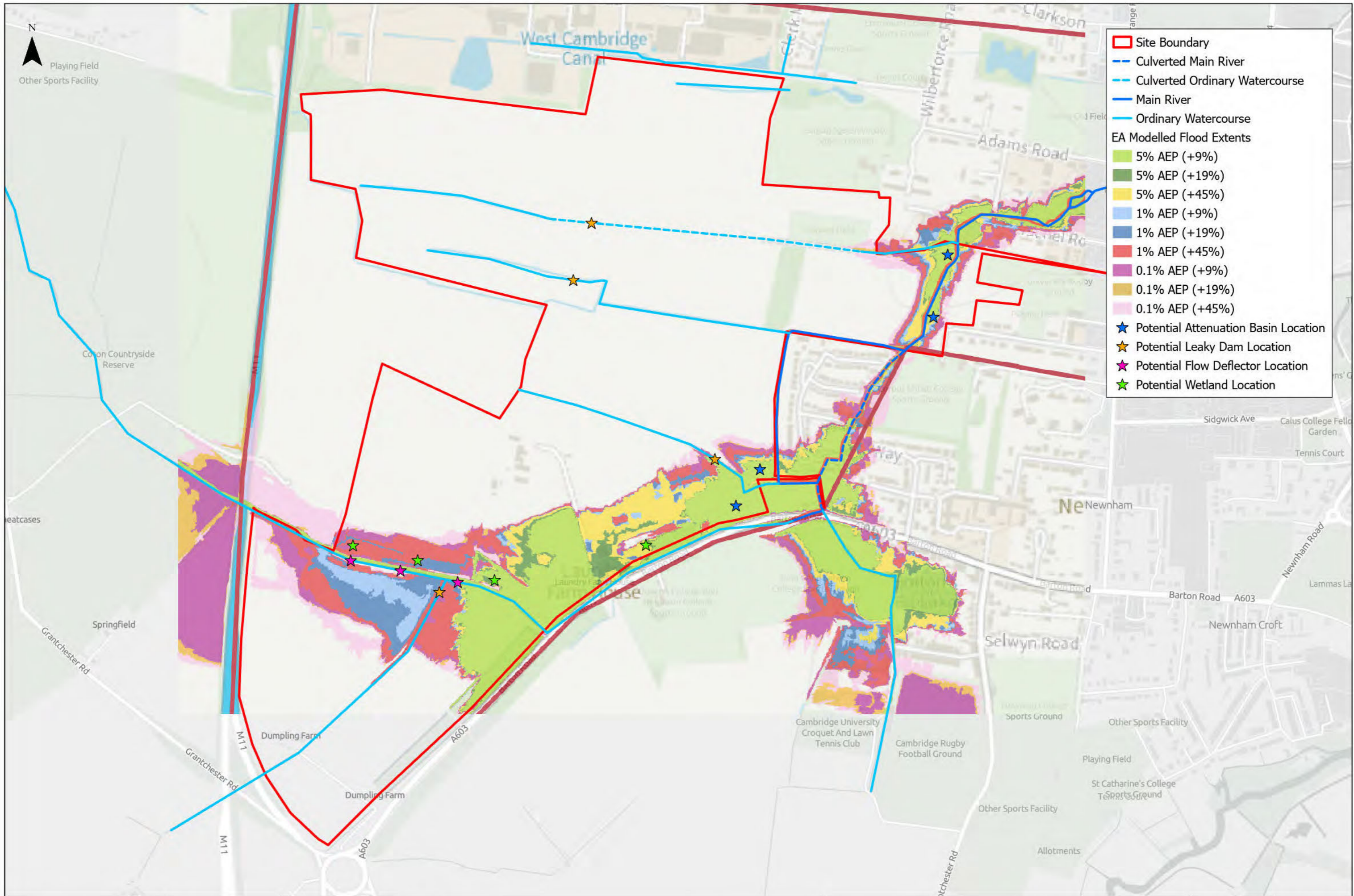
Analyse OK Cancel Help

Enter Maximum Allowable Discharge between 0.0 and 999999.0

Appendix I NFM Map



Project Number: 331610058



Site Boundary

- Culverted Main River
- - - Culverted Ordinary Watercourse
- Main River
- Ordinary Watercourse

EA Modelled Flood Extents

- 5% AEP (+9%)
- 5% AEP (+19%)
- 5% AEP (+45%)
- 1% AEP (+9%)
- 1% AEP (+19%)
- 1% AEP (+45%)
- 0.1% AEP (+9%)
- 0.1% AEP (+19%)
- 0.1% AEP (+45%)

Potential NFM Locations

- ★ Potential Attenuation Basin Location
- ★ Potential Leaky Dam Location
- ★ Potential Flow Deflector Location
- ★ Potential Wetland Location



Client
St Johns College

South West Cambridge
Potential NFM Locations

0 250 500 m
GB Light Grey: Contains OS data © Crown Copyright and database right 2026
Contains data from OS Zoomstack

1:8,000 @ A3	Date: 28/01/2026
Drawn: JB	Checked: RF
Figure: 12	Rev A