

Flood risk assessment data

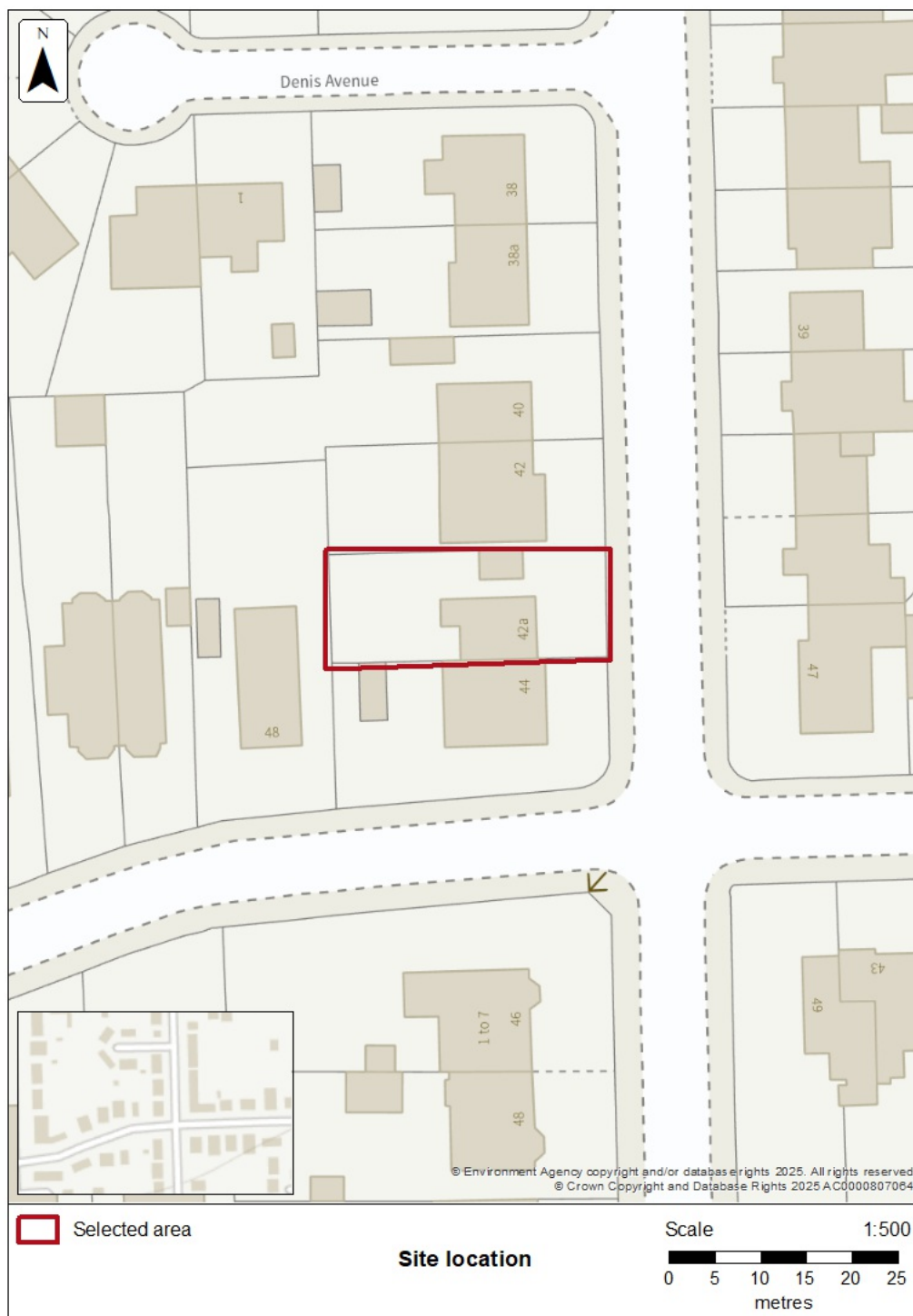
Location of site: 383167 / 394567 (shown as easting and northing coordinates)

Document created on: 1 March 2025

This information was previously known as a product 4.

Customer reference number: M91XD9541FNC

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)
- flood defences and attributes
- information to help you assess if there is a reduced flood risk from rivers and the sea because of defences
- modelled data
- climate change 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:

- past floods

We do not have past flooding data for this location.

Please note that:

- flooding may have occurred that we do not have records for
- flooding can come from a range of different sources
- we can only supply flood risk data relating to flooding from rivers or the sea

You can contact your Lead Local Flood Authority or Internal Drainage Board to see if they have other relevant local flood information. Please note that some areas do not have an Internal Drainage Board.

Surface water and other sources of flooding

Use the [long term flood risk service](#) to find out about the risk of flooding from:

- surface water
- ordinary watercourses
- reservoirs

Or you can contact your Lead Local Flood Authority for further information.

Your Lead Local Flood Authority is Manchester District.

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

About the models used

Model name: Corn Brook 2017

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

Date: 31 December 2017

These models contain 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 2.

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

The flood zones are not currently being updated. The last update was in November 2023. Some of the flood zones may have changed, however all source data is included in the models below.



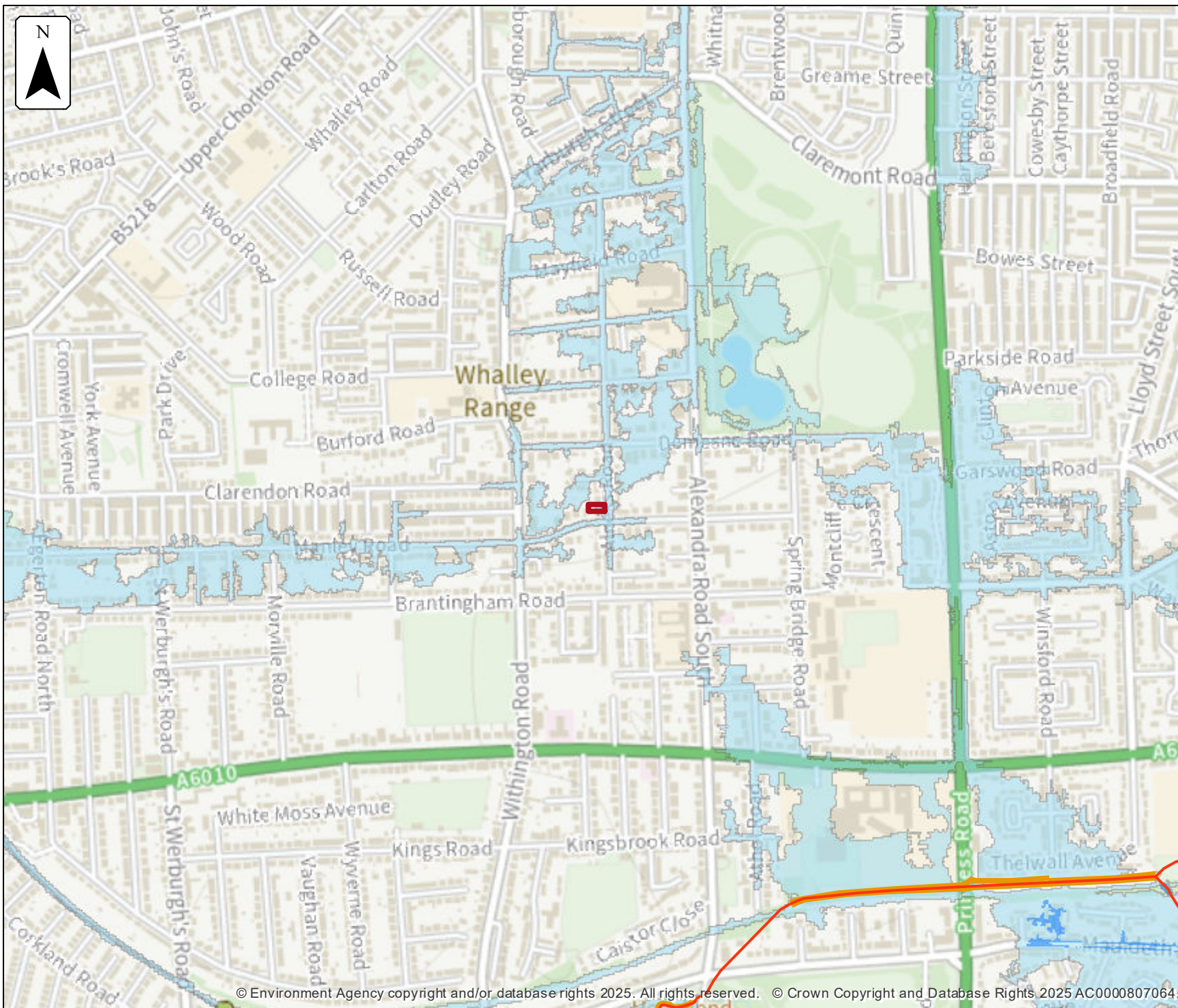
Flood map for planning

Location (easting/northing)
383167/394567

Scale
1:10,000

Created
1 Mar 2025

-  Selected area
-  Main river
-  Flood defence
-  Flood zone 3
-  Flood zone 2



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Flood defences and attributes

The flood defences map shows the location of the flood defences present.

The flood defences data table shows the type of defences, their condition and the standard of protection. It shows the height above sea level of the top of the flood defence (crest level). The height is in mAOD which is the metres above the mean sea level at Newlyn, Cornwall.

It's important to remember that flood defence data may not be updated on a regular basis. The information here is based on the best available data.

Use this information:

- to help you assess if there is a reduced flood risk for this location because of defences
- with any information in the modelled data section to find out the impact of defences on flood risk



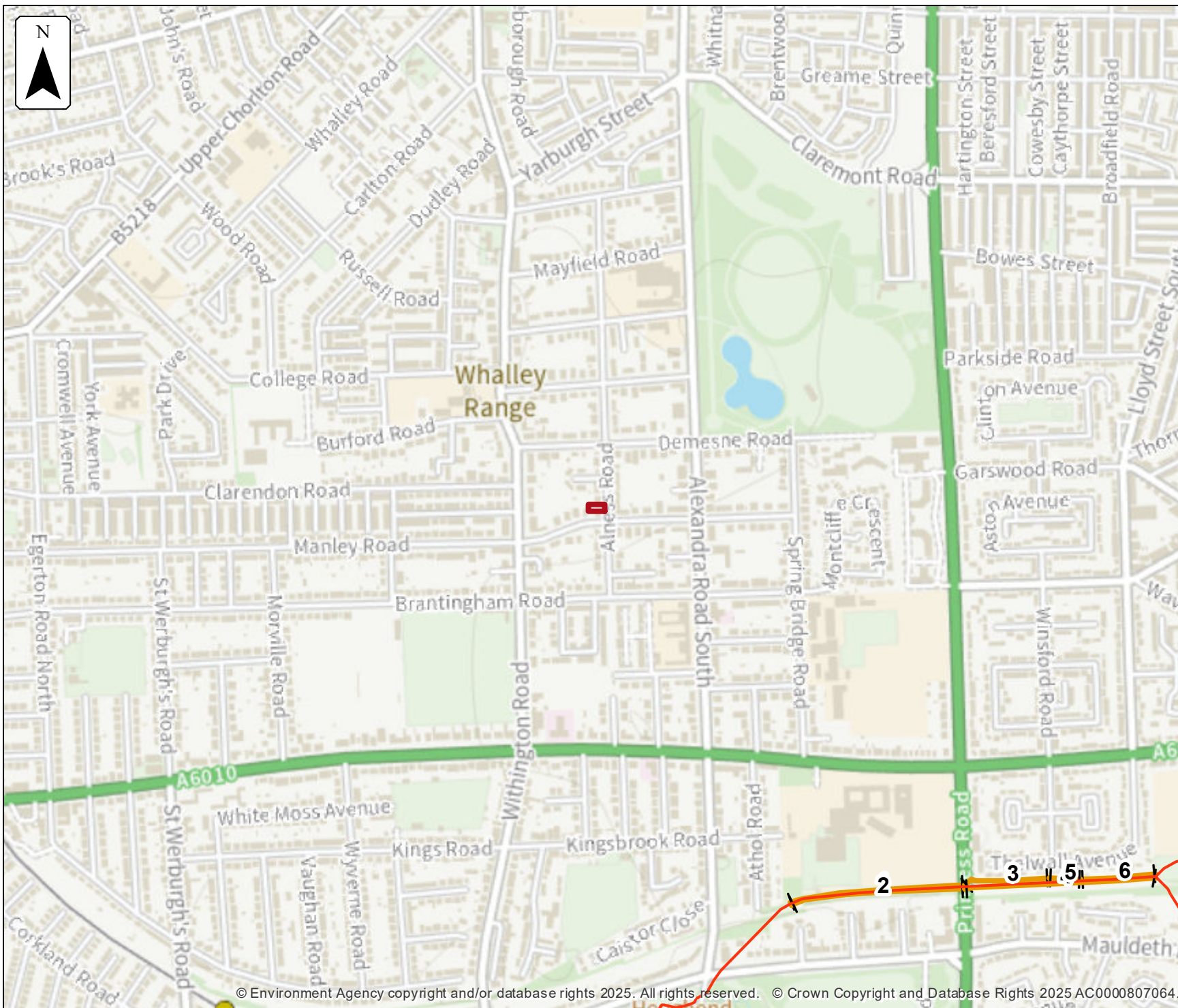
Flood defences

Location (easting/northing)
383167/394567

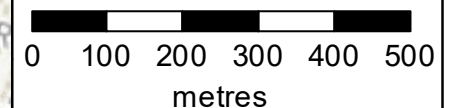
Scale
1:10,000

Created
1 Mar 2025

-  Selected area
-  Main river
-  Flood defence



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Flood defences data

Label	Asset ID	Asset Type	Standard of protection (years)	Current condition	Downstream actual crest level (mAOD)	Upstream actual crest level (mAOD)	Effective crest level (mAOD)
1	120082	Embankment	100		30.25	31.38	
2	32515	Embankment	100		30.29	31.52	
3	32518	Wall	100		31.48	31.84	
4	60038	Embankment	100		31.39	32.25	
5	59788	Embankment	100		31.81	32.82	
6	122064	Wall	100		31.84	31.90	

Any blank cells show where a particular value has not been recorded for an asset.

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

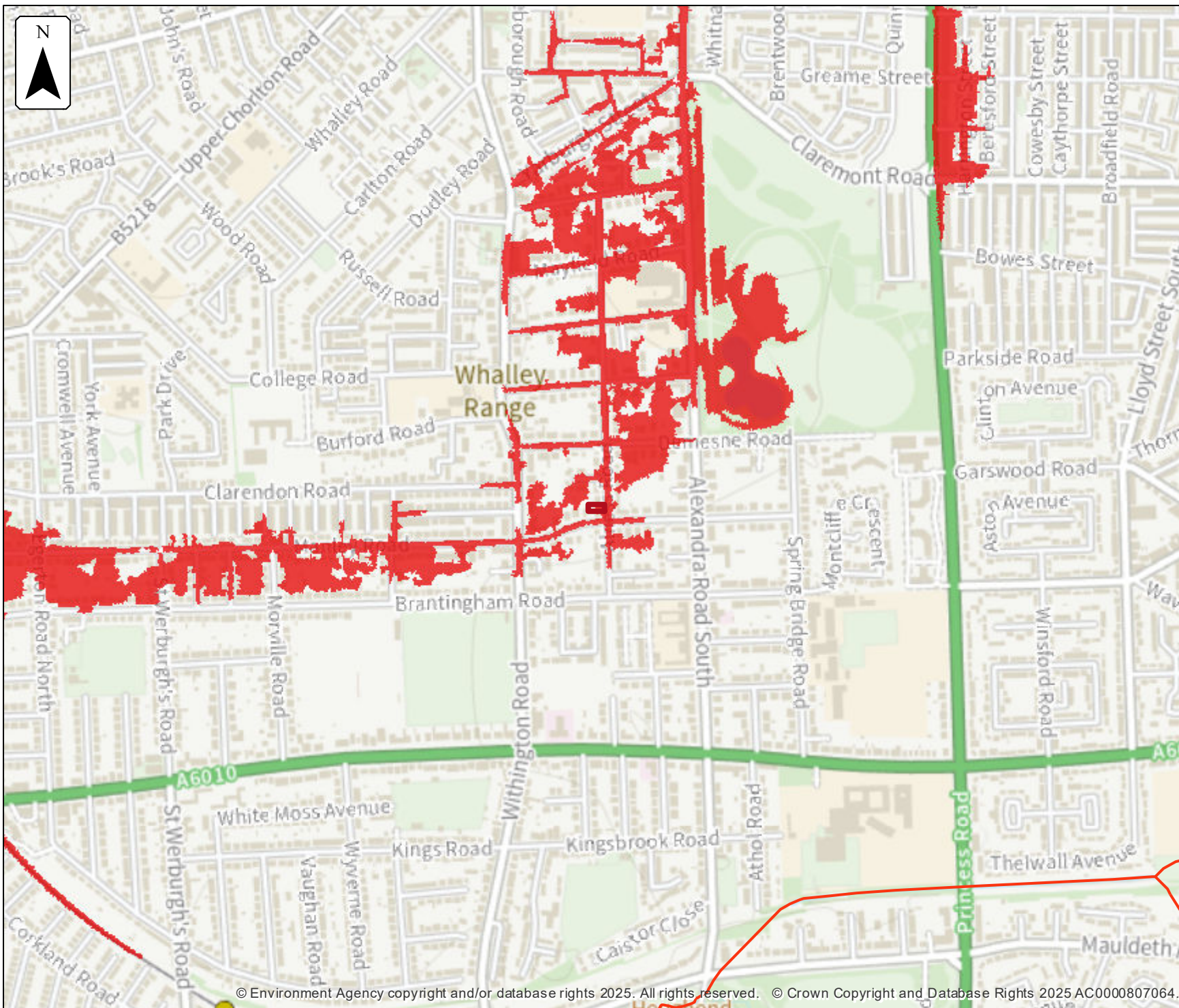
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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:

- Defended modelled fluvial: risk of flooding from rivers where there are flood defences
- Defences removed modelled fluvial: risk of flooding from rivers where flood defences have been removed
- No defences exist modelled fluvial: risk of flooding from rivers where there are no flood defences
- Defended climate change modelled fluvial: risk of flooding from rivers where there are flood defences, including estimated impact of climate change
- Defences removed climate change modelled fluvial: risk of flooding from rivers where flood defences have been removed, including estimated impact of climate change
- 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 modelled fluvial extent

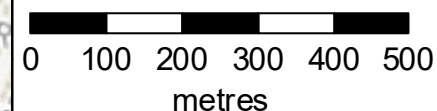
Location (easting/northing)
383167/394567

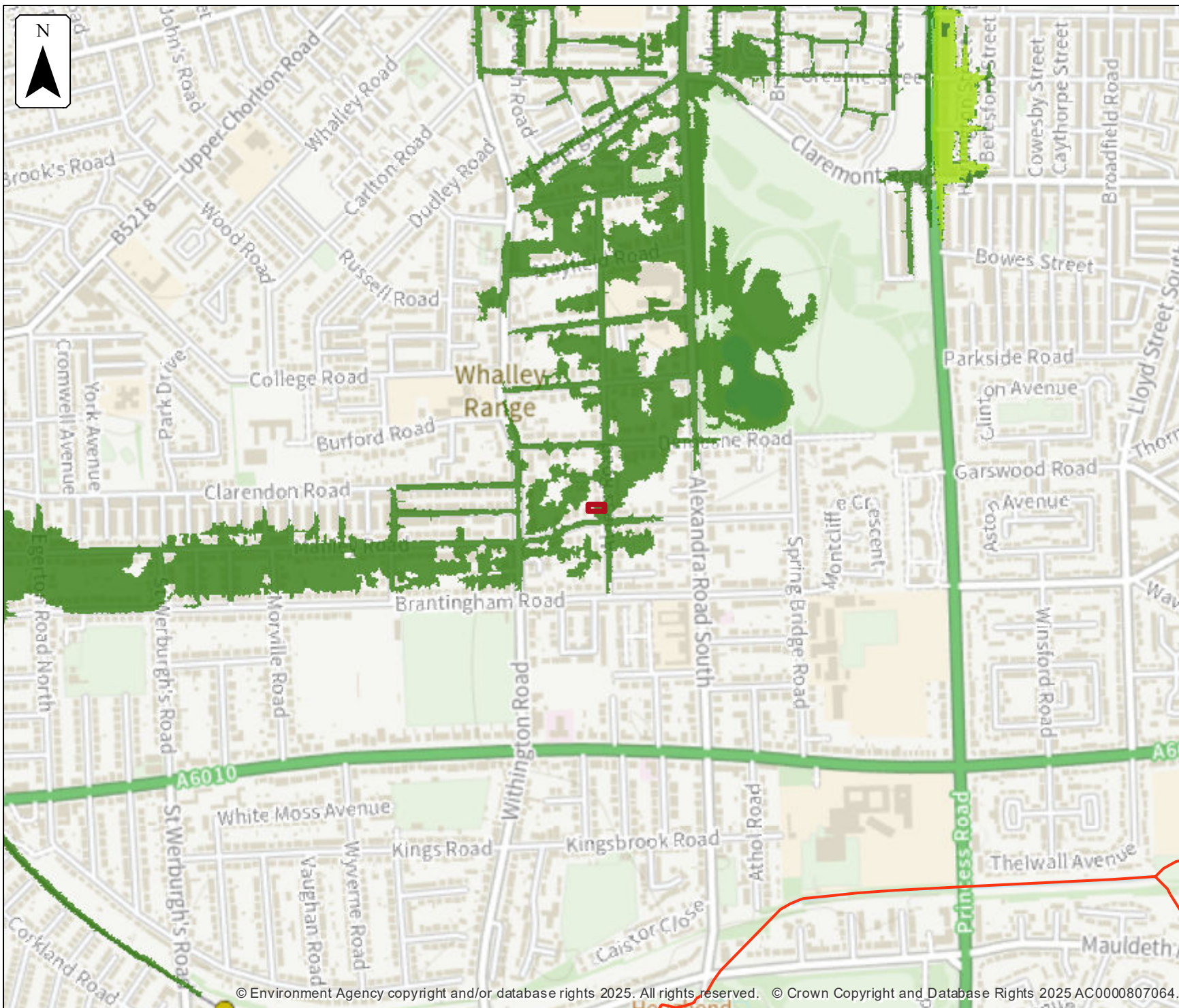
Scale Created
1:10,000 1 Mar 2025

Model name
Corn Brook 2017

-  Selected area
-  Main river
- Modelled flood extent
 -  0.1% AEP

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





No defences exist climate change modelled fluvial extent

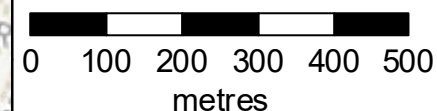
Location (easting/northing)
383167/394567

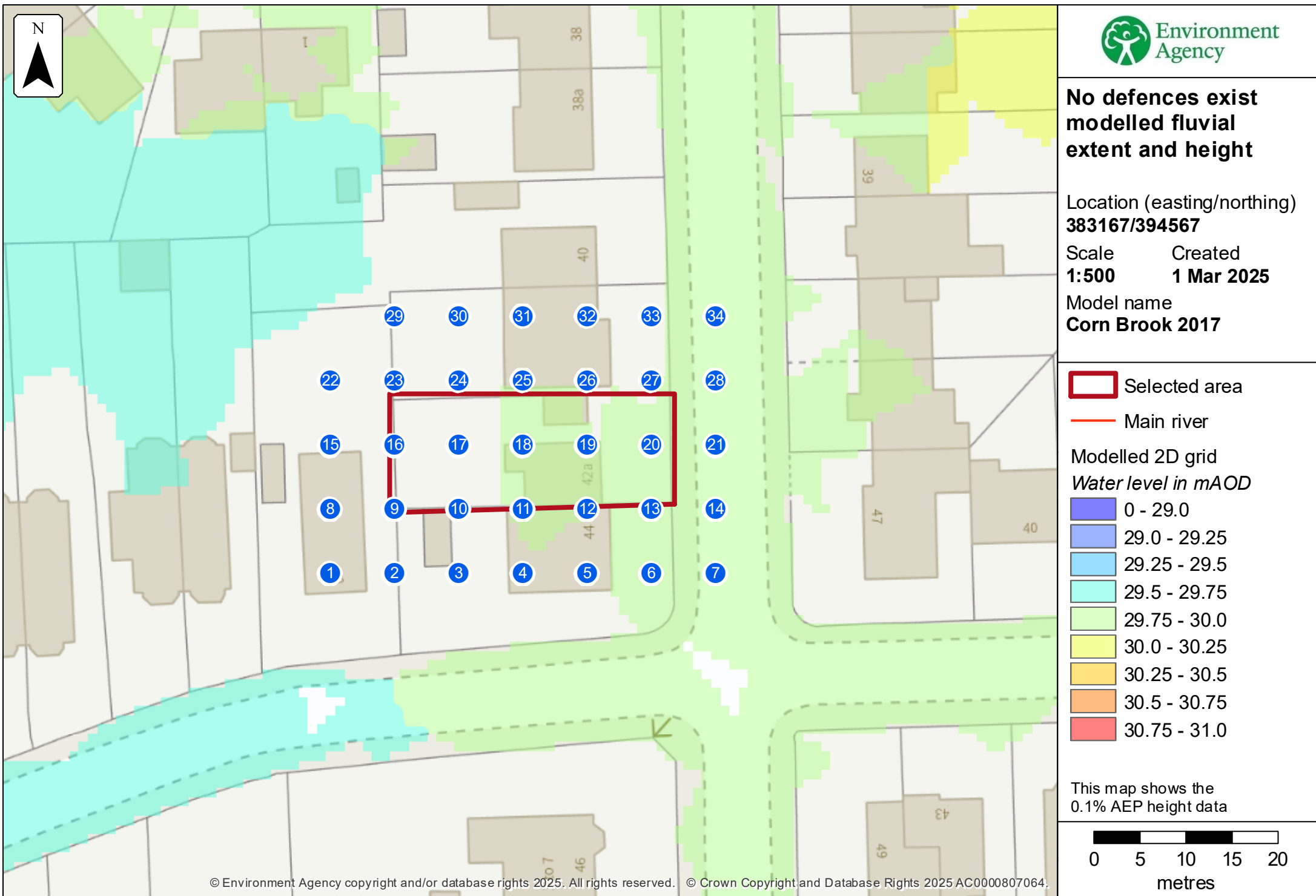
Scale Created
1:10,000 1 Mar 2025

Model name
Corn Brook 2017

- Selected area
- Main river
- Modelled flood extent
 - 1% AEP (+70%)
 - 0.1% AEP (+30%)

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





Sample point data

No defences exist

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Depth	Height
1	383145	394554	NoData	NoData
2	383152	394554	NoData	NoData
3	383159	394554	NoData	NoData
4	383166	394554	NoData	NoData
5	383173	394554	NoData	NoData
6	383180	394554	0.18	29.84
7	383187	394554	0.27	29.84
8	383145	394561	NoData	NoData
9	383152	394561	NoData	NoData
10	383159	394561	NoData	NoData
11	383166	394561	0.10	29.82
12	383173	394561	0.12	29.82
13	383180	394561	0.15	29.84
14	383187	394561	0.25	29.84
15	383145	394568	NoData	NoData
16	383152	394568	NoData	NoData

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Depth	Height
17	383159	394568	NoData	NoData
18	383166	394568	0.17	29.82
19	383173	394568	0.17	29.82
20	383180	394568	0.19	29.84
21	383187	394568	0.25	29.84
22	383145	394575	NoData	NoData
23	383152	394575	NoData	NoData
24	383159	394575	NoData	NoData
25	383166	394575	NoData	NoData
26	383173	394575	NoData	NoData
27	383180	394575	NoData	NoData
28	383187	394575	0.23	29.84
29	383152	394582	NoData	NoData
30	383159	394582	NoData	NoData
31	383166	394582	NoData	NoData
32	383173	394582	NoData	NoData
33	383180	394582	NoData	NoData
34	383187	394582	0.20	29.84
Max value in selected area:			0.21	29.84

Data in this table comes from the Corn Brook 2017 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.

If no height or depth data is available for a scenario, no table will be shown.

'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)
383167/394567

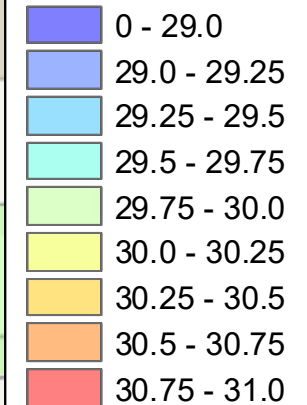
Scale Created
1:500 1 Mar 2025

Model name
Corn Brook 2017

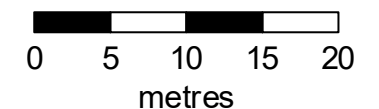
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP +30% height data



Sample point data

No defences exist climate change

Label	Easting	Northing	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height
1	383145	394554	NoData	NoData	NoData	NoData
2	383152	394554	NoData	NoData	NoData	NoData
3	383159	394554	NoData	NoData	NoData	NoData
4	383166	394554	NoData	0.14	NoData	29.88
5	383173	394554	NoData	0.11	NoData	29.88
6	383180	394554	NoData	0.25	NoData	29.90
7	383187	394554	NoData	0.35	NoData	29.90
8	383145	394561	NoData	NoData	NoData	NoData
9	383152	394561	NoData	NoData	NoData	NoData
10	383159	394561	NoData	0.14	NoData	29.86
11	383166	394561	NoData	0.22	NoData	29.86
12	383173	394561	NoData	0.18	NoData	29.88
13	383180	394561	NoData	0.22	NoData	29.90
14	383187	394561	NoData	0.32	NoData	29.90
15	383145	394568	NoData	NoData	NoData	NoData
16	383152	394568	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height
17	383159	394568	NoData	NoData	NoData	NoData
18	383166	394568	NoData	0.22	NoData	29.89
19	383173	394568	NoData	0.22	NoData	29.89
20	383180	394568	NoData	0.26	NoData	29.90
21	383187	394568	NoData	0.29	NoData	29.91
22	383145	394575	NoData	NoData	NoData	NoData
23	383152	394575	NoData	NoData	NoData	NoData
24	383159	394575	NoData	NoData	NoData	NoData
25	383166	394575	NoData	NoData	NoData	NoData
26	383173	394575	NoData	NoData	NoData	NoData
27	383180	394575	NoData	0.14	NoData	29.90
28	383187	394575	NoData	0.29	NoData	29.90
29	383152	394582	NoData	NoData	NoData	NoData
30	383159	394582	NoData	NoData	NoData	NoData
31	383166	394582	NoData	NoData	NoData	NoData
32	383173	394582	NoData	NoData	NoData	NoData
33	383180	394582	NoData	NoData	NoData	NoData
34	383187	394582	NoData	0.26	NoData	29.91

Label	Easting	Northing	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height
Max value in selected area:			NoData	0.26	NoData	29.90

Data in this table comes from the Corn Brook 2017 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.

If no height or depth data is available for a scenario, no table will be shown.

'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 Manchester District.

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 Greater Manchester Merseyside and Cheshire Environment Agency team at inforequests.gmmc@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