



Project Title: 00478 146 Burnage Lane

Product: Level 3 Flood Risk Assessment

Date: 24 January 2025

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Report Revision Log

Report Reference	Date Issued	Issued To	Notes
00478	24/01/2025	Client	

1. INTRODUCTION

1.1. PURPOSE OF THE REPORT

FloodPlan have been commissioned on behalf of J. Cade to produce a Flood Risk Assessment for 146a Burnage Lane, Manchester, M19 1EF. This assessment has been conducted with the understanding that the document will be used as part of a planning permission proposal by J. Cade.

1.2. LOCATION OF SUBJECT SITE

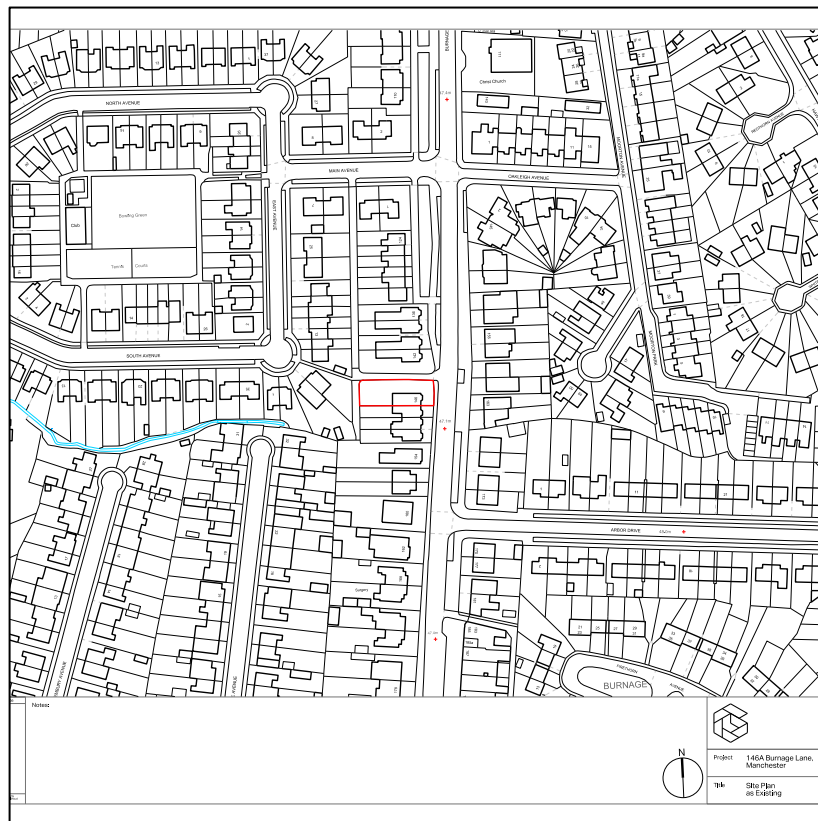


Figure 1: Site Location

1.3. SITE PROPOSALS

The development proposes the addition of 2 x windows to the existing lower ground floor level of the property. Proposals also include replacement of existing external steps and replacement of the existing front and lower ground floor doors. The proposal seeks to create additional habitable rooms within the lower ground floor of the existing dwelling.

2. INTRODUCTION TO NPPF

2.1. INTRODUCTION TO NPPF

The National Planning Policy Framework (NPPF) document provides guidance to local planning authorities to ensure the effective implementation of the planning policy. The policy seeks to direct development away from areas at highest risk, but where development is necessary, making it safe without increasing flood risk elsewhere. For these purposes:

- “areas at risk of flooding” means land within Flood Zones 2 and 3; or land within Flood Zone 1 which has critical drainage problems, and which has been notified to the local planning authority by the Environment Agency.
- “flood risk” means risk from all sources of flooding – including from rivers and the sea, directly from rainfall on the ground surface and rising groundwater, overwhelmed sewers, and drainage systems, and from reservoirs, canals and lakes and other artificial sources.

Flood risk (from river and sea) are categorised into one of the below:

2.2. FLOOD RISK CLASSIFICATIONS

Flood Zone	Probability of flooding
Zone 1	Low probability
Zone 2	Medium probability
Zone 3a	High probability
Zone 3b	Functional Floodplain

2.3. FLOOD RISK VULNERABILITY CLASSIFICATION

NPPF categorises land by vulnerability. A summary of categories can be seen below:

Vulnerability Class	Infrastructure
Essential Infrastructure	Power stations, water treatment works, wind turbines etc.

Highly vulnerable	Police stations, basement dwellings, caravans, mobile homes etc
More vulnerable	Hospitals, residential buildings, landfill sites, drinking establishments etc
Less Vulnerable	Emergency services stations, shops and building that offer professional services etc
Water compatible development	Pumping stations, docks, marinas etc

2.4. SUITABLE DEVELOPMENT MATRIX

The below table outlines the suitable development type for the flood zone classification assigned by the Environment Agency flood maps.

Flood risk vulnerability classification	Essential infrastructure	Water compatible	Highly vulnerable	More vulnerable	Less vulnerable
Zone 1					
Zone 2			Exception Test Required		
Zone 3a	Exception Test Required			Exception Test Required	
Zone 3b Functional floodplain	Exception Test Required				

Figure 2: Suitable Development Matrix

Key: Blue Development is appropriate; Red Development should not be permitted; Green Development is appropriate with the passing of an Exception Test.

3. NPPF SITE ASSESSMENT

3.1. FLOOD ZONE CLASSIFICATION

As per Figure 3, the site is partially within flood zone 2.

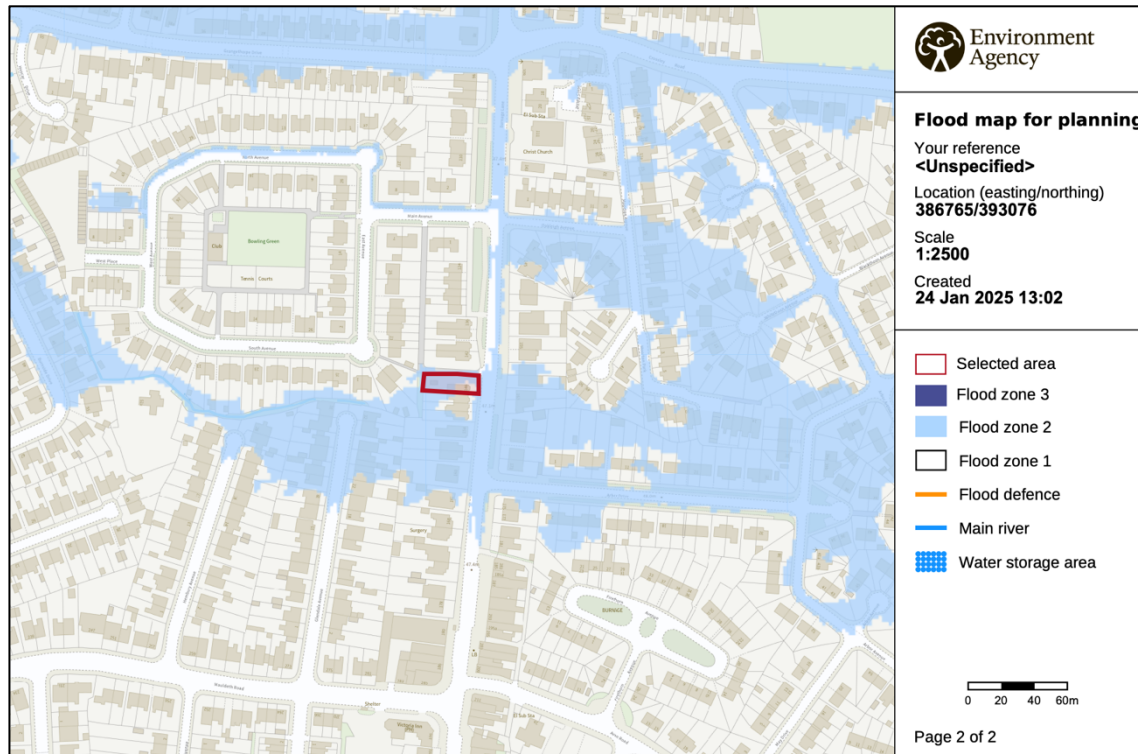


Figure 3: Flood Zone

3.2. LAND VULNERABILITY CLASSIFICATION

The development proposes the addition of 2 x windows to the existing lower ground floor level of the property. Proposals also include replacement of existing external steps and replacement of the existing front and lower ground floor doors. The proposal seeks to create additional habitable rooms within the lower ground floor of the existing dwelling.

The creation of lower ground habitable rooms, including sleeping accommodation will be classified as 'highly vulnerable' development.

3.3. SITE SUITABILITY (NPPF)

'Highly vulnerable' development is suitable for flood zone 1 and 2, as per Figure 2.

4. SITE FLOOD RISK

4.1. THIRD PARTY FLOOD RISK DATA SUMMERY

A 'Groundsure' flood report has been acquired for advising this assessment. The full report can be found in Appendix B. The main findings are summarised below:

Type of Risk	Assessment of Risk
Overall Flood Risk	Moderate
Rivers and the Sea	Low
Surface Water	Negligible
Groundwater	Moderate-High
Historic Flood	Not Identified
Flood Defences	No
FloodScoreTM – insurance rating	Very Low

4.2. SURFACE WATER FLOODING

The Environment Agency surface water flood map Figure 4, shows the site to be at a low risk from surface water flooding. The 1%AEP depth map shows the site to be directly unaffected. The immediate surrounding area is mapped to be affected.

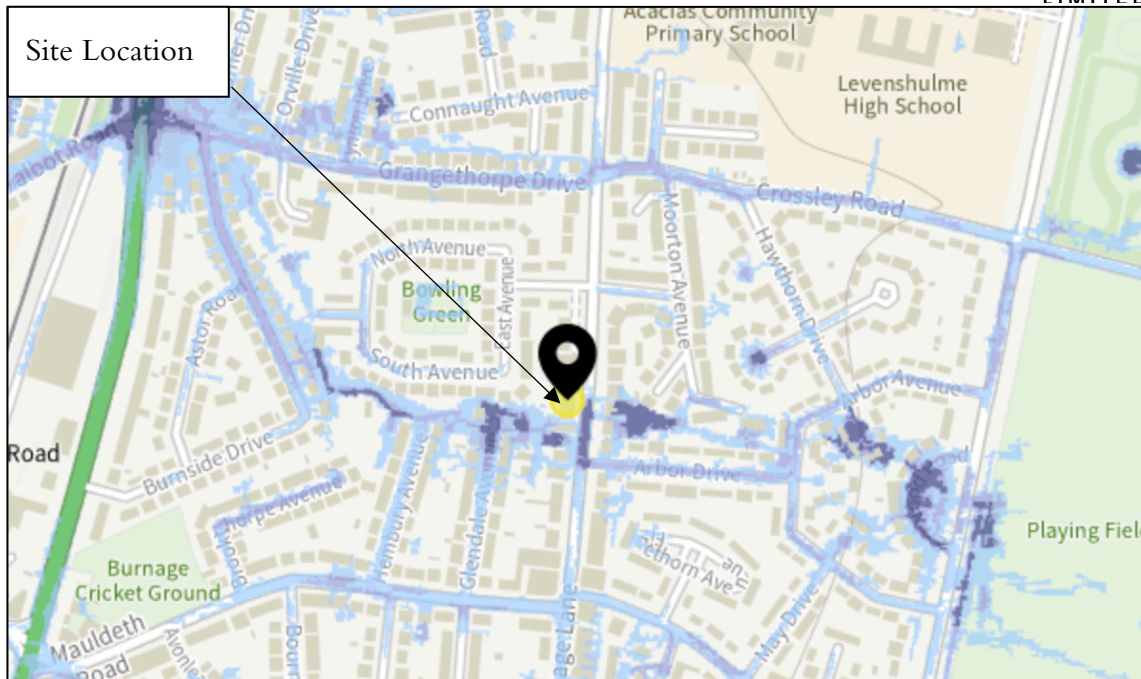


Figure 4: EA Surface Water Flood Map

Where the dark blue shaded area denotes high risk of surface water flooding; the light blue denotes low risk with white areas having very low risk of surface water flooding. The risk classification is comparable to the 'Groundsure' flood report.

4.3. TIDAL AND FLUVIAL FLOODING

The site is classified as having a 'very low' risk of flooding from tidal or river sources by the EA mapping.

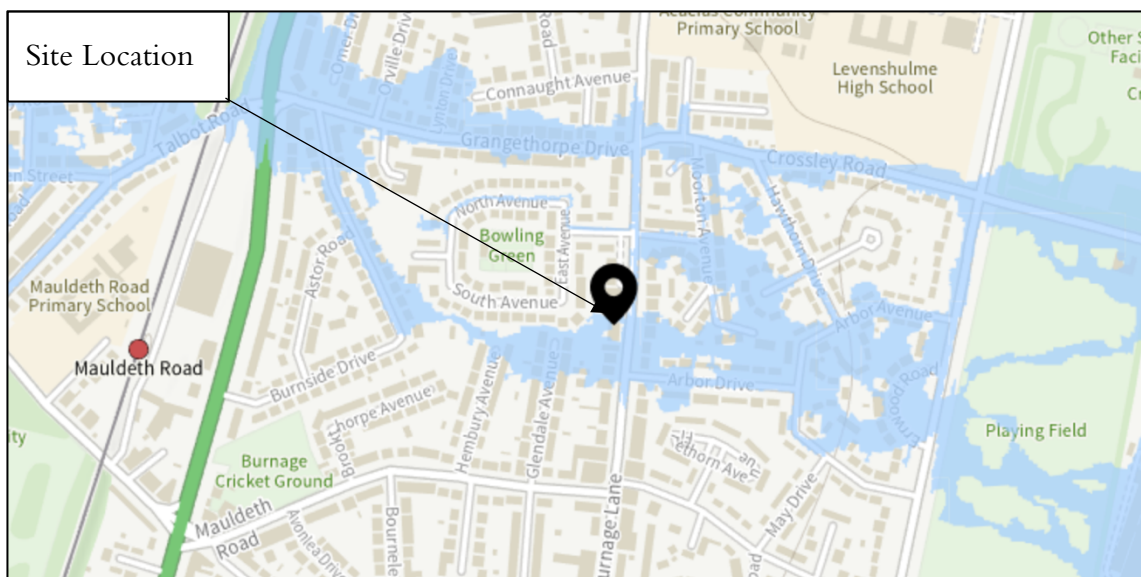


Figure 5: EA Tidal and Fluvial Flood Map

Where the dark blue shaded area denotes high risk of tidal and pluvial flooding; the light blue denotes low risk with the lightest blue areas having a very low risk of flooding.

4.4. FLOOD MODELLING DATA

LiDAR downloaded on the 24th of January 2025 identifies the site to have a ground level of circa 46.8mOD. A topographic survey will be required to verify.

As part of this commission, FloodPlan contacted the Environment Agency to request flood modelling data and outputs for the site. The Environment Agency provided model outputs from the 'Cringle Black Brook 2017' model.

The site is modelled to remain flood free during the 1%AEP and 0.5%AEP fluvial flood event. The site is at risk during the 0.15AEP fluvial event.

The site is modelled to experience a maximum flood depth of 0.13m during the 1%AEP (+35%) event for both the 'Defended' and 'Defences Removed' scenarios. The maximum flood level during this event is 47.13mOD.

During an extreme flood event, there is potential for the site to experience flooding. The existing lower ground floor is particularly vulnerable. There may be potential to incorporate a sump pump with a low-level alarm system for warning users of the property to the potential for water ingress.

'Tanking' the existing lower ground floor may also provide additional protection from groundwater ingress. The input of a structural engineer may be required to design mitigation measures.

The users of the lower ground floor will have access to the ground floor at all times. In the event of an extreme flood event that leads to water ingress, they will be able to seek refuge on the ground floor.

4.5. GROUNDWATER FLOODING

The 'Groundsure' flood report indicates that the site is within a 25m radius of a 'high' classification of groundwater flooding. The subject site is mapped to be at a 'moderate' risk of groundwater flooding.

4.6. RESERVOIR FLOODING

The risk of flooding from reservoir sources is considered 'unlikely'.

4.7. HISTORIC FLOODING

The 'Groundsure' flood report failed to identify any historic flood records.

6. FINDINGS AND RECOMMENDATIONS

6.1. FINDINGS

The development proposes the addition of 2 x windows to the existing lower ground floor level of the property. Proposals also include replacement of existing external steps and replacement of the existing front and lower ground floor doors. The proposal seeks to create additional habitable rooms within the lower ground floor of the existing dwelling. NPPF categorises residential use lower ground floors as ‘highly vulnerable’. ‘Highly vulnerable’ use classifications are suitable within flood zone 1 and 2.

6.2. RECOMMENDATIONS

This report recommends the following be considered to lower the risk and/or consequences that flooding may cause to the proposed development:

- Potential to include mitigation measures to the existing lower ground floor (suggested within report).

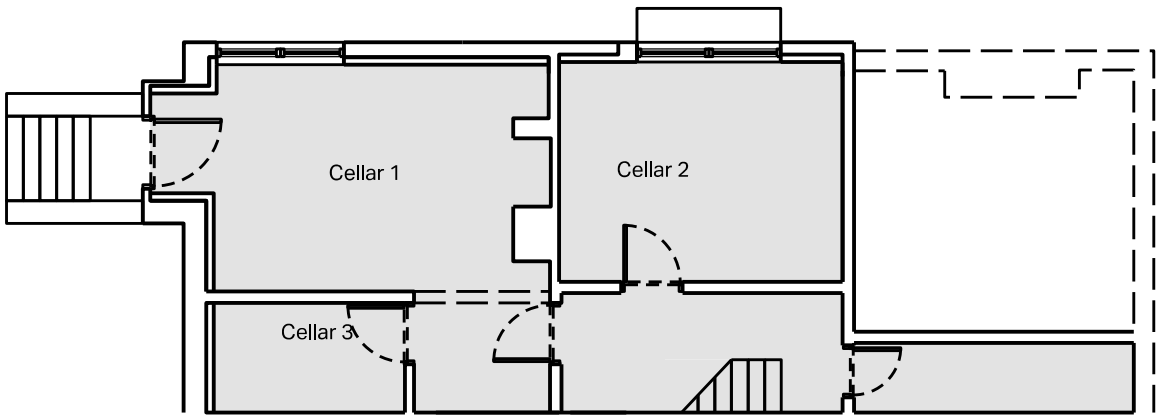
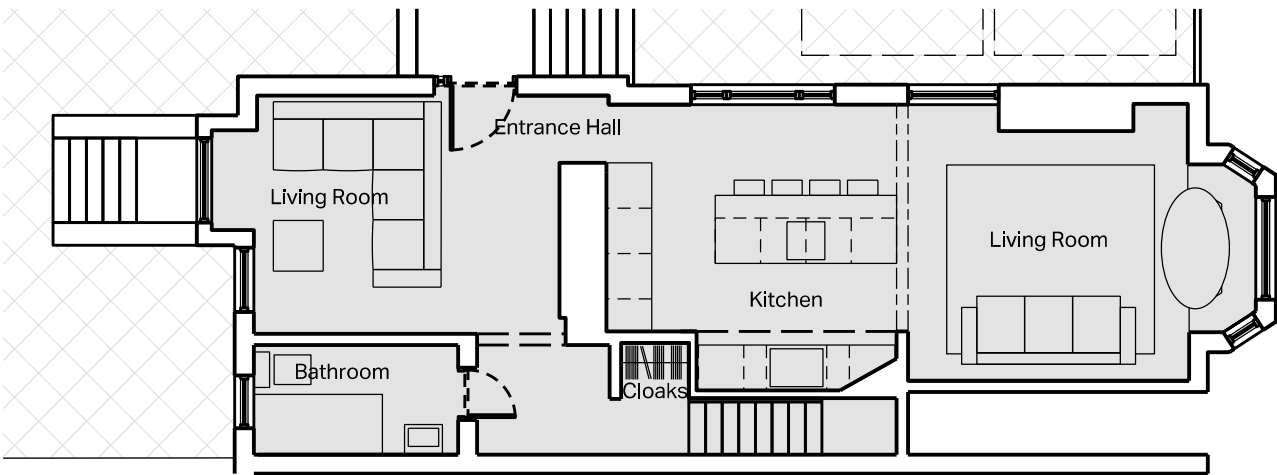
List of Appendices

Appendix A: Development Plan

Appendix B: Groundsure Flood Report

Appendix C: Environment Agency Flood Modelling Data

Appendix A: Development Plan

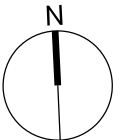
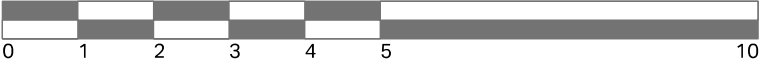


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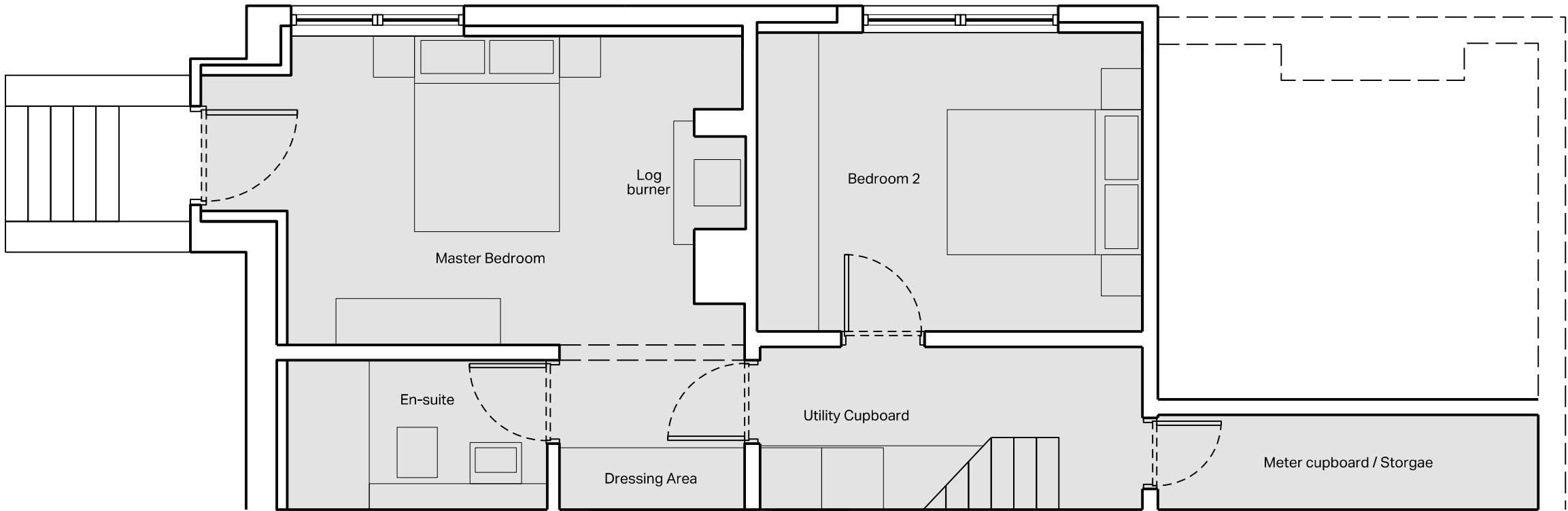
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Scale 1:100

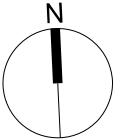


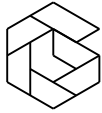
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		Draw. No.	L(-1)002	By	PG
Title	Plans as Proposed	Date	April 22	Chk.	00
		Scale	1:100 @ A3	Status	00



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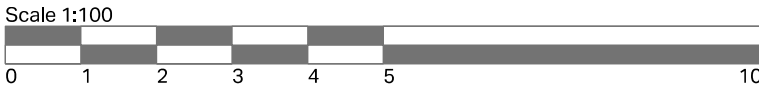
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			Draw. No.	L(--)-11	By	PG
	TitleLower Ground Floor Plan as Proposed		Date	April 22	Chk.	00
			Scale	1:50 @ A3	Status	00



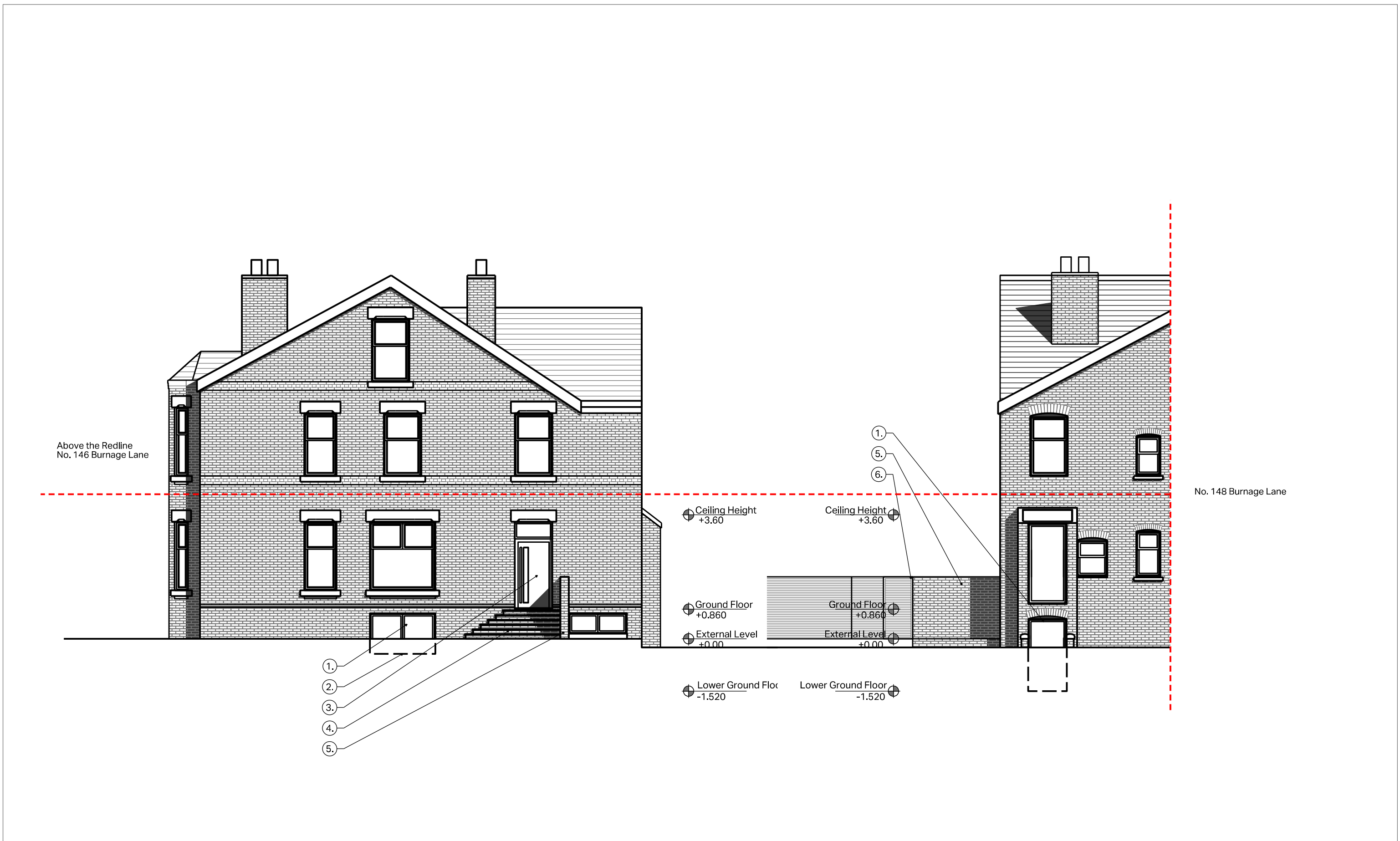
Rev	Description	By	Chk.	Date
01	Finished Floor Levels Added	PG	XX	14/07/22

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Project	146a Burnage Lane Manchester	Project No.	22-03	Rev.	01
		Draw. No.	L(-4)000	By	PG
Title	Elevations as Existing	Date	April 22	Chk.	00
		Scale	1:100 @ A3	Status	00



Rev	Description	By	Chk.	Date
01	Finished Floor Levels Added	PG	XX	14/07/22

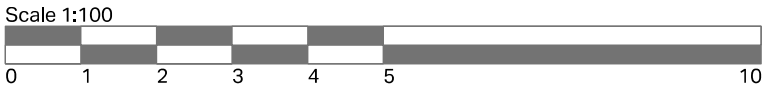
Notes:

1. New white PVC window / door to match the existing
2. Shallow lightwell
3. New PVC front door to match the windows
4. Extended entrance steps to match the existing
5. New brick wall replaces the existing brickwall in matching brickwork
6. New timber fence panels / gate to rear garden



Project	146a Burnage Lane Manchester	Project No.	22-03	Rev.	01
		Draw. No.	L(-4)001	By	PG
Title	Elevations as Proposed	Date	April 22	Chk.	00
		Scale	1:100 @ A3	Status	00

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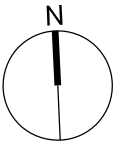




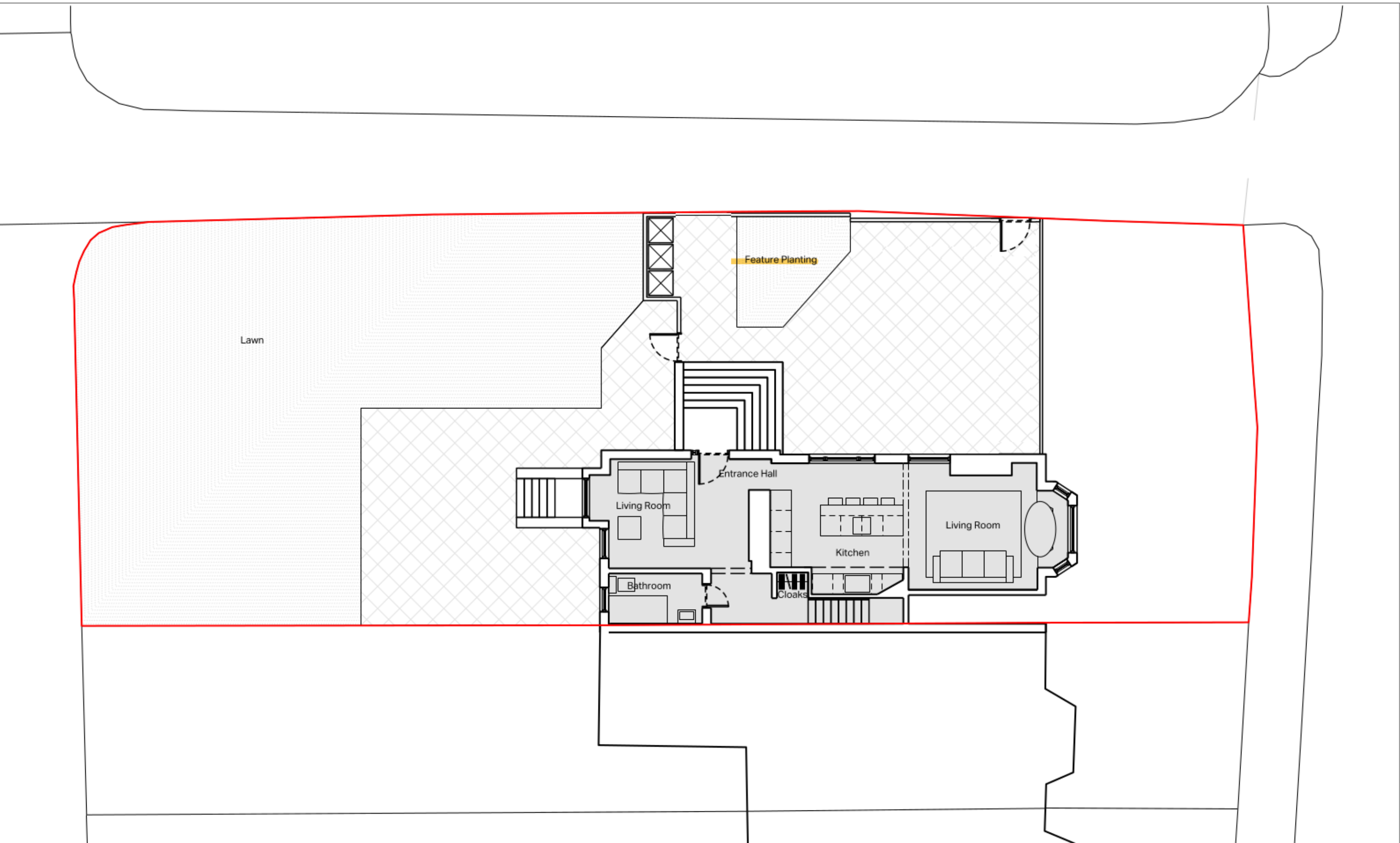
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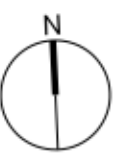
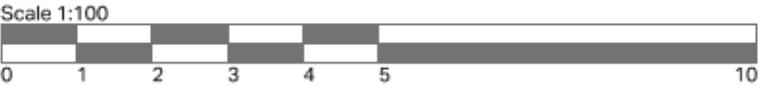
Project	146A Burnage Lane, Manchester	Project No.	22-03	Rev.	00
		Draw. No.	L(-2)001	By	PG
Title	Site Plan as Existing	Date	April 22	Chk.	00
		Scale	1:100 @ A3	Status	00



Rev	Description	By	Chk	Date
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Notes:

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Project	146A Burnage Lane, Manchester	Project No.	22-03	Rev.	00
		Draw. No.	L(-2)001	By	PG
Title	Site Plan as Proposed	Date	March 22	Chk.	00
		Scale	1:100 @ A3	Status	00

Appendix B: Groundsure Flood Report

146a Burnage Lane, M19 1EF

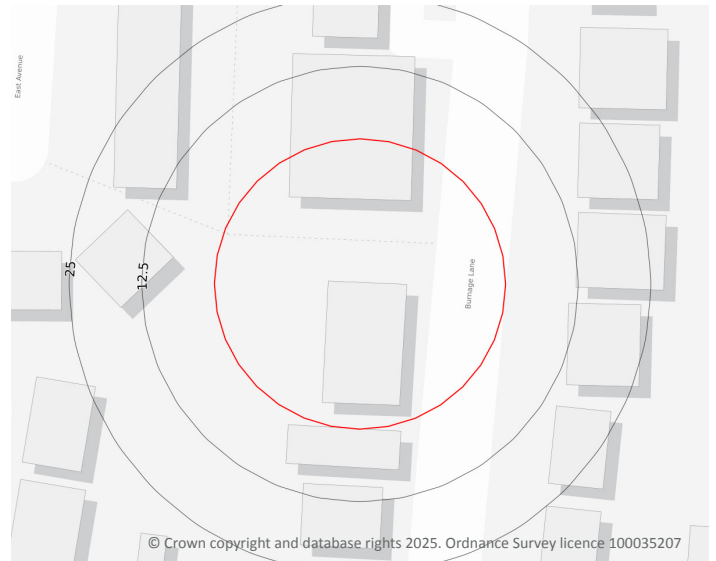
Overall Flood Risk



MODERATE

Groundsure Flood complies with relevant Law Society practice notes on flood risk in property transactions.

Site plan



Search Results



Rivers and the Sea

Low

[page 3 >](#)



Surface Water

Negligible



Groundwater

Moderate-High

[page 4 >](#)



Historic Flood

Not identified



Flood Defences

No



FloodScore™ insurance rating

Very Low

[page 6 >](#)

Full assessments for other environmental risks are available in additional Groundsure searches including the Groundsure Avista 7 in 1 report. Contact Groundsure or your search provider for further details.

Overview of findings and recommendations

To save you time when assessing the report, we only provide maps and data tables of features within the search radius that we have identified to be of note. These relate to environmental risks that may have liability implications, affect insurance premiums, property values and/or a lender's willingness to lend.

You can view the fully comprehensive library of information we have searched on [page 5 >](#).



Flooding

Flooding

An elevated level of flood risk has been identified at the property.

Next steps for consideration:

- Ensure buildings and contents insurance covering flood risk is available and affordable;
- A risk of groundwater flooding has been identified at the site. This will be more of an issue for properties with a basement or other section below ground. Further guidance on groundwater flooding has been produced by the Environment Agency and can be found at <https://www.gov.uk/guidance/groundwater-flooding> ↗;
- Make enquiries of the seller (e.g. in the TA6) and other nearby residents on any flooding that may have occurred;
- Sign up to the government's Flood Warnings and Alerts <https://www.gov.uk/sign-up-for-flood-warnings> ↗;
- Investigate the various forms of flood resistance and resilience measures that will help protect your property in the event of a flood;
- Create a flood plan <https://www.gov.uk/prepare-for-flooding> ↗;
- The assessment is based on the highest flood risk found within the site boundary. Whilst the maps within the report provide a visual representation, we are able to provide a manual flood assessment breaking down the risk to the main dwelling/building and the outside areas. Please contact us at info@groundsure.com ↗;
- If the property has recently been constructed, the risk assessment within this report will not take into account measures put in place by the developer. This should be factored in when making any purchase decisions.



Flooding / Risk of flooding from rivers and the sea



— Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low

Historical Flood Events

Areas Used for Flood Storage

Reduced river/sea flooding risk due to defences

Proposed Flood Defence Scheme

Flood Defences

Risk of flooding from rivers and the sea

The property has a Low chance of flooding in any given year, according to Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) data. This could cause problems with insuring the property against flood risk. However, if built before 2009, it may be eligible for insurance assistance from the Flood Re scheme: www.floodre.co.uk/ ↗

RoFRaS/FRAW assesses flood risk from rivers and the sea in England and Wales, using local data and expertise. It shows the chance of flooding from rivers or the sea, taking account of flood defences and the condition those defences are in. The model uses local water level and flood defence data to model flood risk. [Click here](#) ↗ for explanation of the levels of flood risk.

Please see [page 2](#) > for further advice.

This data is sourced from the Environment Agency and Natural Resources Wales.

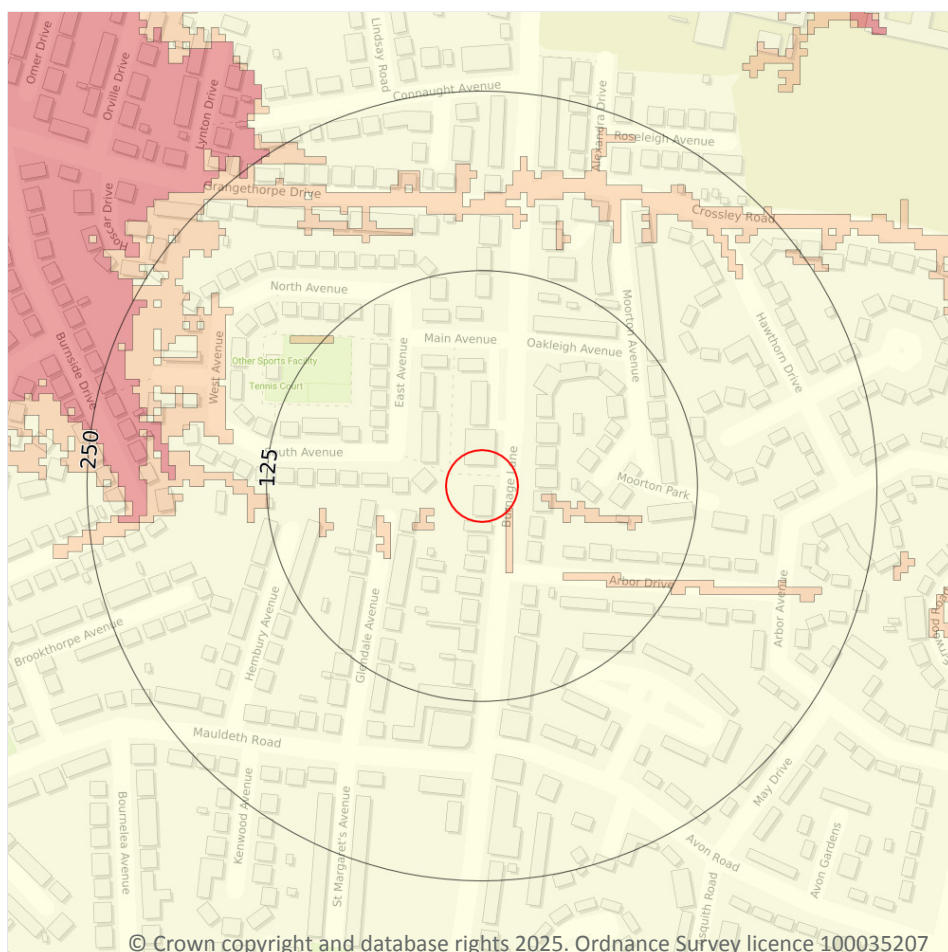


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info@groundsure.com ↗
01273 257 755

Ref: CMAPS-CM-1203924-60191-240125
Your ref: CMAPS-CM-1203924-60191-240125
Grid ref: 386768 393075

Flooding / Groundwater flooding



- Site Outline**
- Search buffers in metres (m)
- High
 - Moderate - High
 - Moderate
 - Low
 - Negligible

Ambiental data indicates that the property is in an area with a moderate to high risk of groundwater flooding. Should a 1 in 100-year groundwater flood event occur, groundwater levels could rise above ground level to depth of up to 25cm. Basement areas may become inundated.

Some of the responses contained in this report are based on data and information provided by the Natural Environment Research Council (NERC) or its component body British Geological Survey (BGS). Your use of any information contained in this report which is derived from or based upon such data and information is at your own risk. Neither NERC nor BGS gives any warranty, condition or representation as to the quality, accuracy or completeness of such information and all liability (including for negligence) arising from its use is excluded to the fullest extent permitted by law. Your use of the data/report/assessment constitutes your agreement to bring no claim against NERC or BGS in connection with it.



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Ref: CMAPS-CM-1203924-60191-240125
Your ref: CMAPS-CM-1203924-60191-240125
Grid ref: 386768 393075

Datasets searched

This is a full list of the data searched in this report. If we have found results of note we will state "Identified". If no results of note are found, we will state "Not identified". Our intelligent filtering will hide "Not identified" sections to speed up your workflow.

Flooding	
Risk of flooding from rivers and the sea	Identified
Flood storage areas: part of floodplain	Not identified
Historical flood areas	Not identified
Reduction in Risk of Flooding from Rivers and Sea due to Defences	Not identified
Flood defences	Not identified
Proposed flood defences	Not identified
Surface water flood risk	Not identified
Groundwater flooding	Identified



Methodologies and limitations

Groundsure's methodologies and limitations are available here: knowledge.groundsure.com/methodologies-and-limitations ↗.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information in your Flood report. To find out who they are and their areas of expertise see www.groundsure.com/sources-reference ↗.

Conveyancing Information Executive and our terms & conditions

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- a charity with an annual income of less than £3 million;
- a Trust with a net asset value of less than £3 million.

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If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure.

If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

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COMPLAINTS PROCEDURE: If you want to make a complaint, we will:

- acknowledge it within 5 working days of receipt
- normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Operations Director, Groundsure Ltd, Nile House, Nile Street, Brighton, BN1 1HW. Tel: 01273 257 755. Email: info@groundsure.com

↗ If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: admin@tpos.co.uk ↗ We will co-operate fully with the Ombudsman during an investigation and comply with their final decision.

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Appendix C: Flood Modelling Data

Flood risk assessment data

Location of site: 386765 / 393077 (shown as easting and northing coordinates)

Document created on: 16 December 2024

This information was previously known as a product 4.

Customer reference number: 5H2T2XMAMBXA

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
- 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

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: Cringle Black Brook 2017

Scenario(s): Defended fluvial, defences removed fluvial, defended climate change fluvial, defences removed climate change fluvial

Date: 1 April 2018

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 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

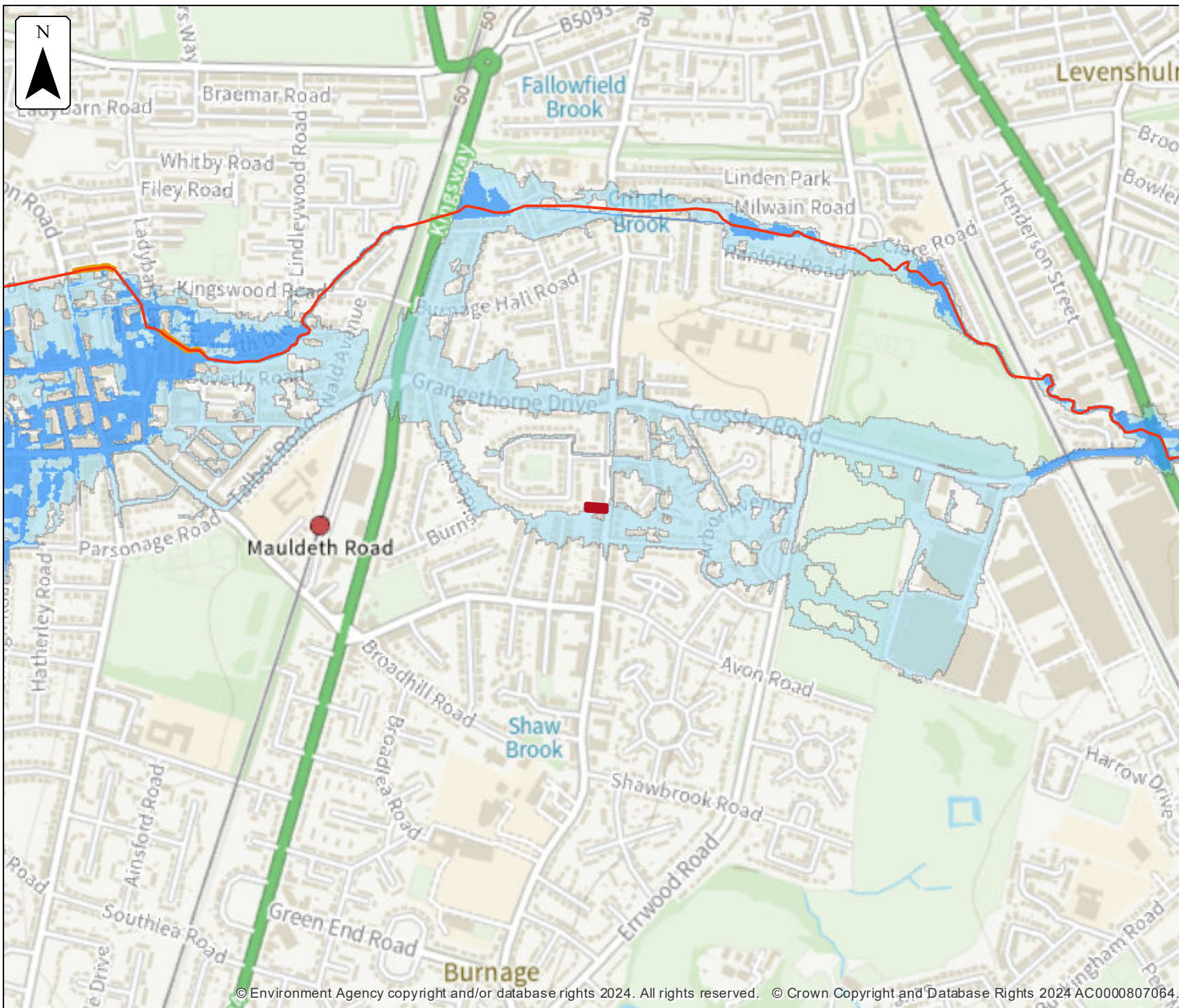
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- 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)
386765/393077

Scale
1:10,000

Created
16 Dec 2024

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



Flood defences and attributes

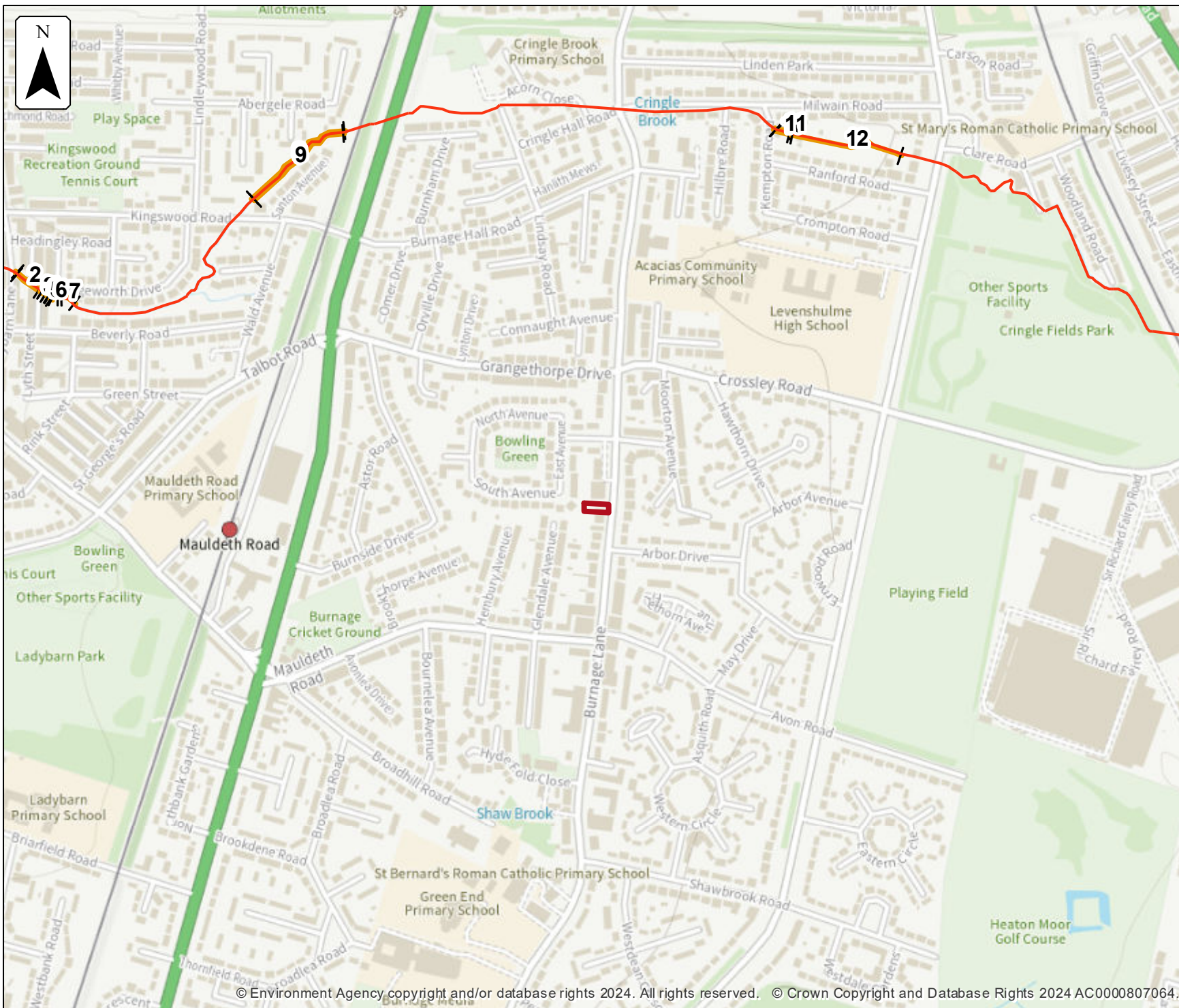
The flood defences map shows the location of the flood defences present.

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



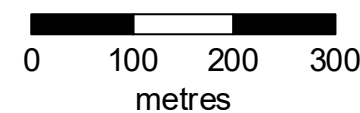
Flood defences

Location (easting/northing)
386765/393077

Scale
1:7,500

Created
16 Dec 2024

-  Selected area
-  Main river
-  Flood defence



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	32357	Wall	100		40.67	40.97	
2	121698	Wall	100		40.70	40.96	
3	32358	Wall	100		40.72	40.71	
4	59161	Wall	100		40.13	40.13	
5	8870	Wall	100		39.84	39.83	
6	8872	Embankment	100		39.78	39.77	
7	9557	Engineered High Ground	100		39.86	39.89	
8	7427	Engineered High Ground	100		40.24	44.26	
9	9636	Engineered High Ground	100		43.83	41.26	
10	71686	Engineered High Ground	100		47.89	48.71	
11	58923	Engineered High Ground	100		47.70	48.55	
12	7430	Engineered High Ground	100		50.40	47.83	

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

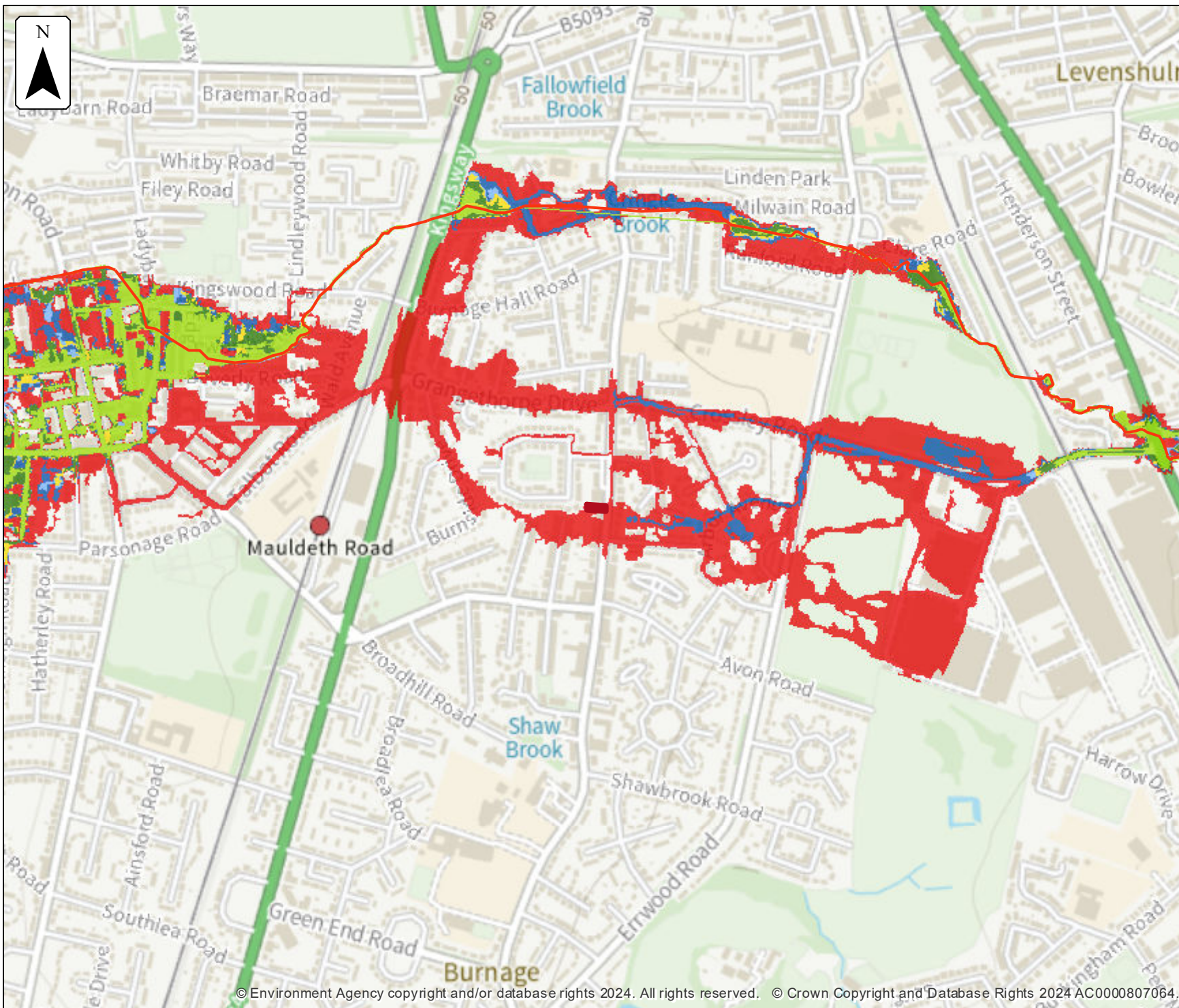
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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
- 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



Defended modelled fluvial extent

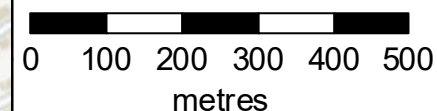
Location (easting/northing)
386765/393077

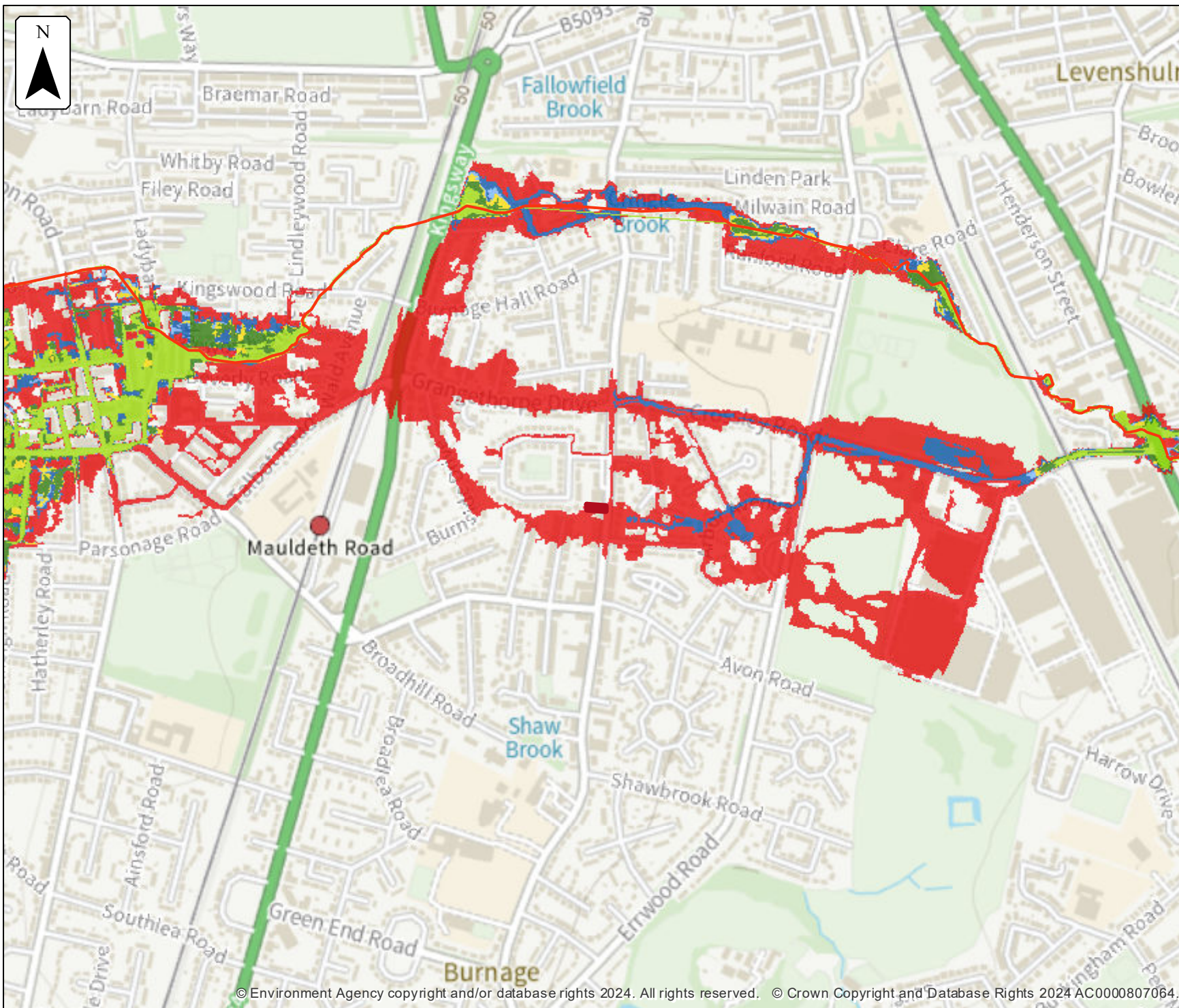
Scale Created
1:10,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

-  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





Defences removed modelled fluvial extent

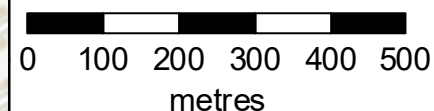
Location (easting/northing)
386765/393077

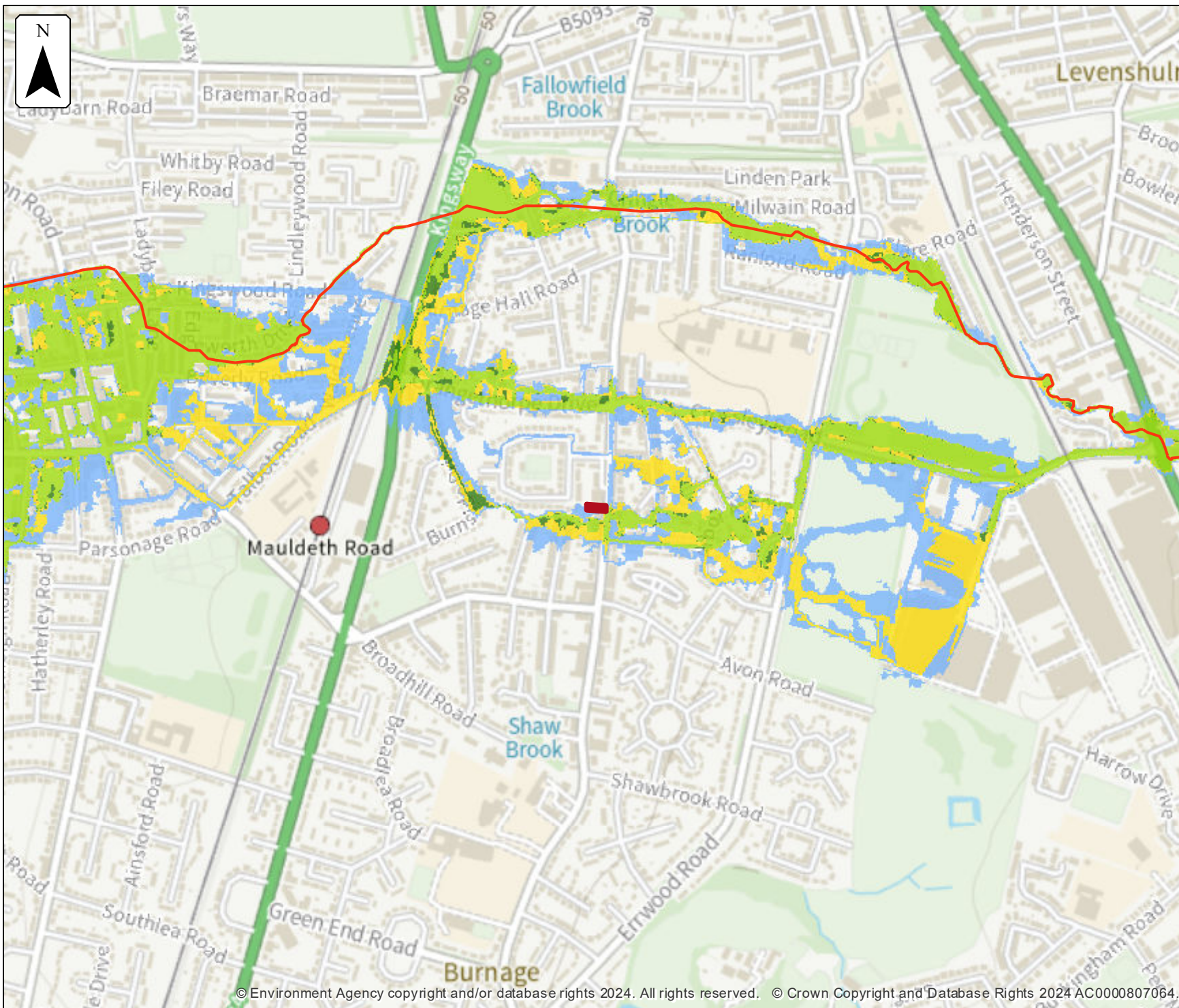
Scale Created
1:10,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

- 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





**Defended
climate change
modelled fluvial extent**

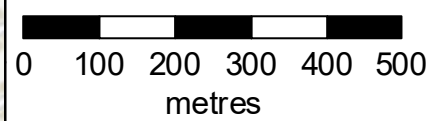
Location (easting/northing)
386765/393077

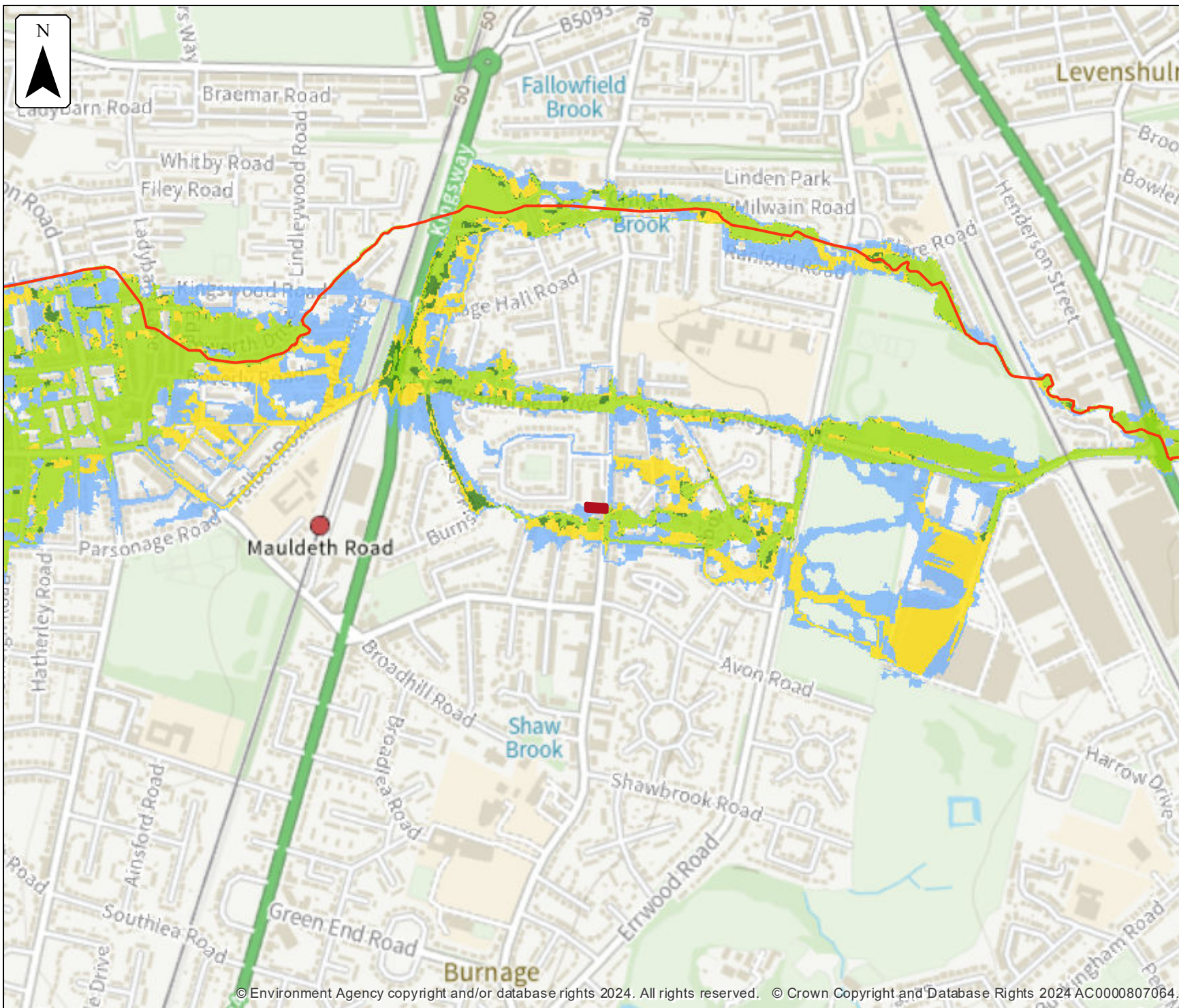
Scale Created
1:10,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river
- Modelled flood extent
 -  1.0% AEP (+30%)
 -  1.0% AEP (+35%)
 -  1.0% AEP (+70%)
 -  0.1% AEP (+30%)

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





Defences removed climate change modelled fluvial extent

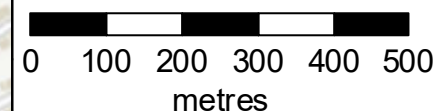
Location (easting/northing)
386765/393077

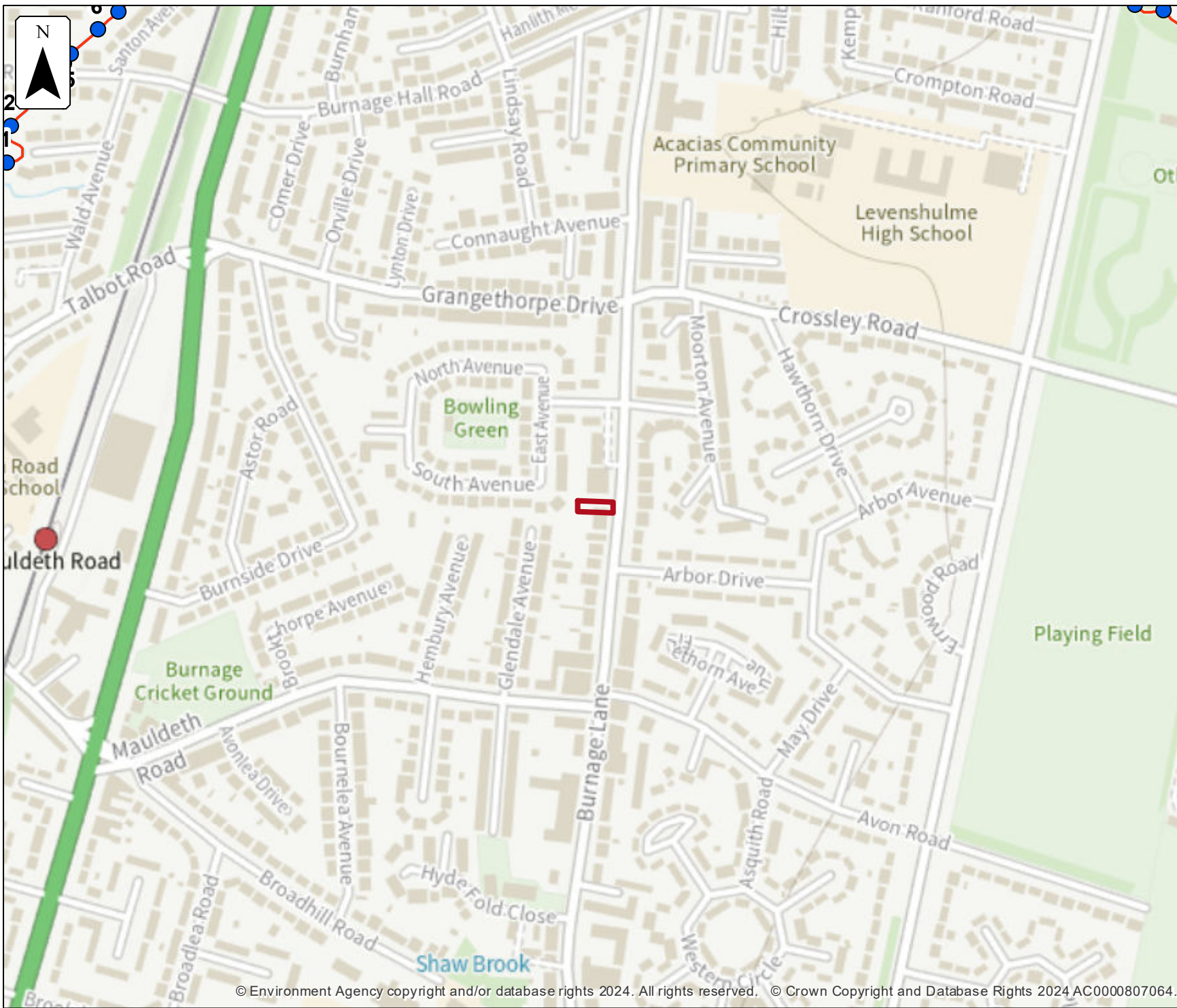
Scale Created
1:10,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river
- Modelled flood extent
 -  1.0% AEP (+30%)
 -  1.0% AEP (+35%)
 -  1.0% AEP (+70%)
 -  0.1% AEP (+30%)

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





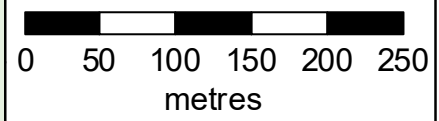
**Defended modelled
fluvial
node locations**

Location (easting/northing)
386765/393077

Scale Created
1:5,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defended

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% 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	Level
1	1440143	386194	393411	40.13	40.26	40.41	40.51	40.53	40.55	40.60	40.62	40.63	40.67	40.78
2	1440040	386197	393446	40.21	40.34	40.49	40.55	40.56	40.58	40.60	40.62	40.63	40.66	40.75
3	1440069	386229	393488	40.27	40.40	40.56	40.63	40.64	40.65	40.68	40.70	40.71	40.73	40.84
4	1440032	386249	393508	40.34	40.48	40.71	40.81	40.83	40.85	40.89	40.93	40.95	41.01	41.25
5	1440145	386255	393517	40.36	40.50	40.73	40.83	40.84	40.86	40.91	40.94	40.97	41.02	41.26
6	1440151	386282	393540	40.73	40.82	40.92	40.97	40.98	41.0	41.03	41.06	41.07	41.11	41.33
7	1440054	386302	393557	41.04	41.15	41.27	41.32	41.33	41.34	41.38	41.40	41.42	41.45	41.53
8	1440103	387290	393563	49.33	49.49	49.63	49.73	49.76	49.80	49.90	49.96	50.0	50.13	51.03
9	1440110	387317	393558	49.49	49.64	49.79	49.89	49.92	49.95	50.06	50.12	50.17	50.30	51.05

Data in this table comes from the Cringle Black Brook 2017 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.

If no level or flow data is available for a scenario, no table will be shown.

Defended

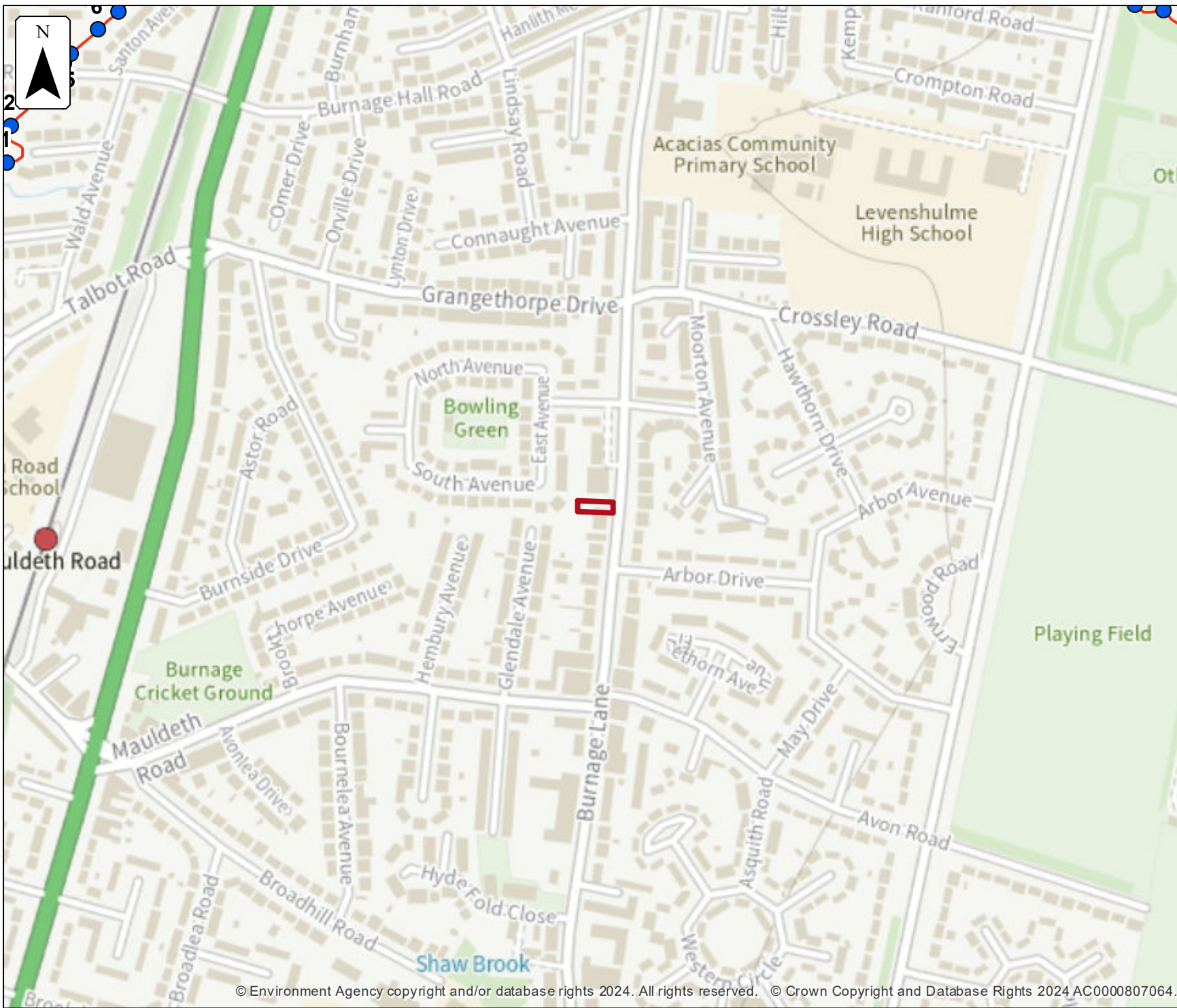
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1440143	386194	393411	3.03	3.70	4.57	4.83	4.87	4.92	5.10	5.29	5.42	5.97	10.89
2	1440040	386197	393446	2.15	2.72	3.47	3.80	3.86	3.94	4.12	4.29	4.37	4.57	5.54
3	1440069	386229	393488	2.15	2.72	3.47	3.80	3.86	3.93	4.11	4.29	4.37	4.57	5.54
4	1440032	386249	393508	2.15	2.72	3.47	3.80	3.86	3.93	4.11	4.29	4.37	4.57	5.54
5	1440145	386255	393517	2.15	2.72	3.47	3.80	3.86	3.93	4.11	4.29	4.37	4.57	5.58
6	1440151	386282	393540	2.01	2.56	3.23	3.54	3.62	3.70	3.91	4.07	4.16	4.37	4.87
7	1440054	386302	393557	2.01	2.56	3.23	3.54	3.62	3.69	3.91	4.07	4.16	4.37	4.87
8	1440103	387290	393563	1.77	2.29	2.82	3.19	3.31	3.45	3.85	4.11	4.30	4.86	5.87
9	1440110	387317	393558	1.77	2.29	2.82	3.19	3.31	3.44	3.85	4.11	4.30	4.86	5.72

Data in this table comes from the Cringle Black Brook 2017 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.

If no level or flow data is available for a scenario, no table will be shown.



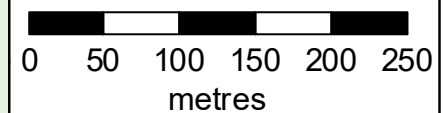
Defences removed modelled fluvial node locations

Location (easting/northing)
386765/393077

Scale Created
1:5,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defences removed

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% 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	Level
1	1440143	386194	393411	40.13	40.26	40.41	40.51	40.53	40.55	40.60	40.62	40.63	40.67	40.78
2	1440040	386197	393446	40.21	40.34	40.49	40.55	40.56	40.58	40.60	40.62	40.63	40.66	40.75
3	1440069	386229	393488	40.27	40.40	40.56	40.63	40.64	40.65	40.68	40.70	40.71	40.73	40.84
4	1440032	386249	393508	40.34	40.48	40.71	40.81	40.83	40.85	40.89	40.93	40.95	41.01	41.25
5	1440145	386255	393517	40.36	40.50	40.73	40.83	40.84	40.86	40.91	40.94	40.97	41.02	41.26
6	1440151	386282	393540	40.73	40.82	40.92	40.97	40.98	41.0	41.03	41.06	41.07	41.11	41.33
7	1440054	386302	393557	41.04	41.15	41.27	41.32	41.33	41.34	41.38	41.40	41.42	41.45	41.53
8	1440103	387290	393563	49.33	49.49	49.63	49.73	49.76	49.80	49.90	49.96	50.0	50.13	51.03
9	1440110	387317	393558	49.49	49.64	49.79	49.89	49.92	49.95	50.06	50.12	50.17	50.30	51.05

Data in this table comes from the Cringle Black Brook 2017 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.

If no level or flow data is available for a scenario, no table will be shown.

Defences removed

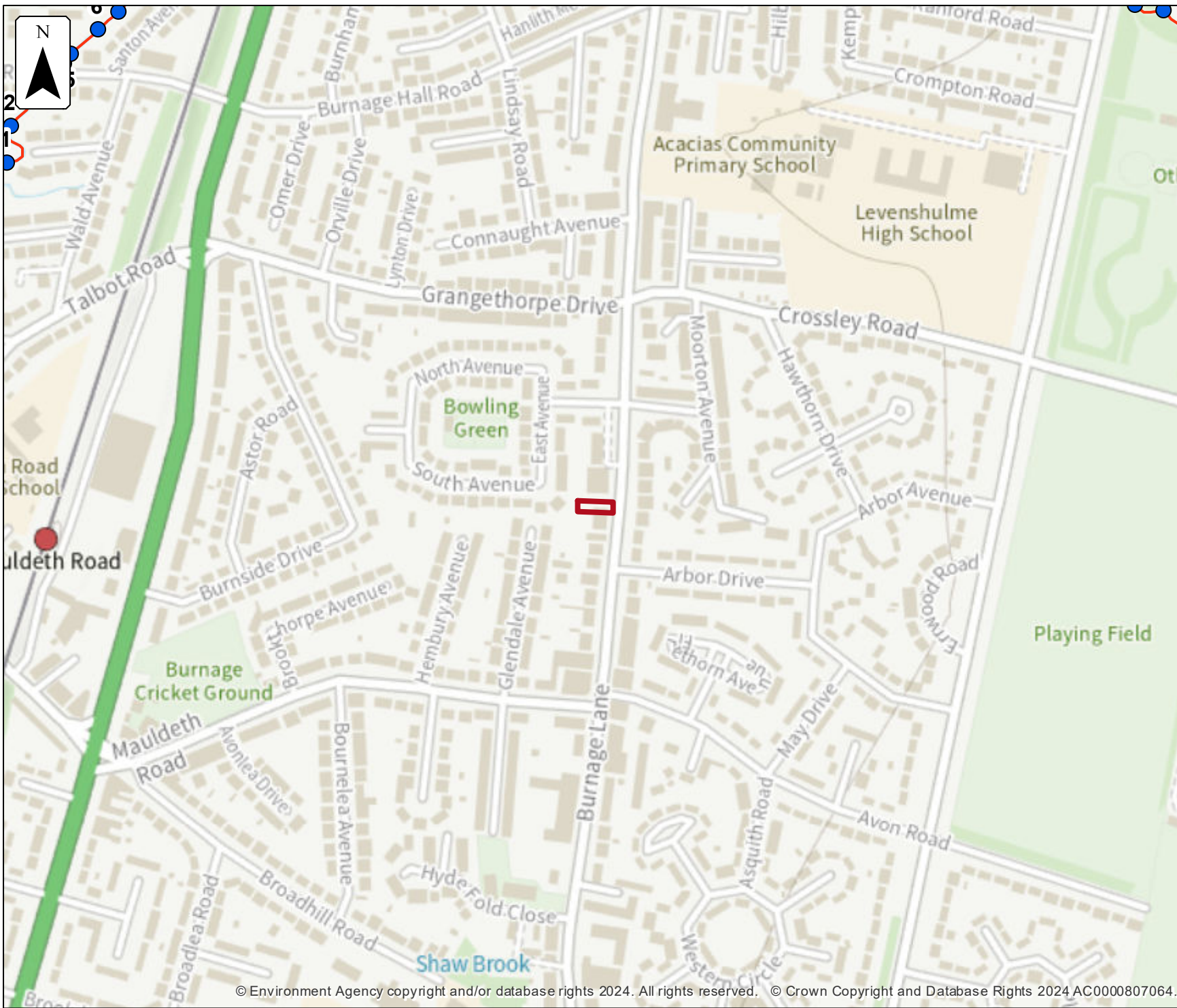
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1440143	386194	393411	3.03	3.70	4.57	4.83	4.87	4.92	5.10	5.29	5.42	5.97	10.89
2	1440040	386197	393446	2.15	2.72	3.47	3.80	3.86	3.94	4.12	4.29	4.37	4.57	5.54
3	1440069	386229	393488	2.15	2.72	3.47	3.80	3.86	3.93	4.11	4.29	4.37	4.57	5.54
4	1440032	386249	393508	2.15	2.72	3.47	3.80	3.86	3.93	4.11	4.29	4.37	4.57	5.54
5	1440145	386255	393517	2.15	2.72	3.47	3.80	3.86	3.93	4.11	4.29	4.37	4.57	5.58
6	1440151	386282	393540	2.01	2.56	3.23	3.54	3.62	3.70	3.91	4.07	4.16	4.37	4.87
7	1440054	386302	393557	2.01	2.56	3.23	3.54	3.62	3.69	3.91	4.07	4.16	4.37	4.87
8	1440103	387290	393563	1.77	2.29	2.82	3.19	3.31	3.45	3.85	4.11	4.30	4.86	5.87
9	1440110	387317	393558	1.77	2.29	2.82	3.19	3.31	3.44	3.85	4.11	4.30	4.86	5.72

Data in this table comes from the Cringle Black Brook 2017 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.

If no level or flow data is available for a scenario, no table will be shown.



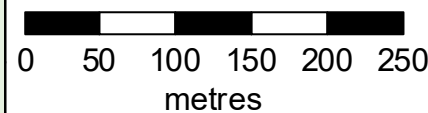
Defended climate change modelled fluvial node locations

Location (easting/northing)
386765/393077

Scale Created
1:5,000 16 Dec 2024

Model name
Cringle Black Brook 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defended climate change

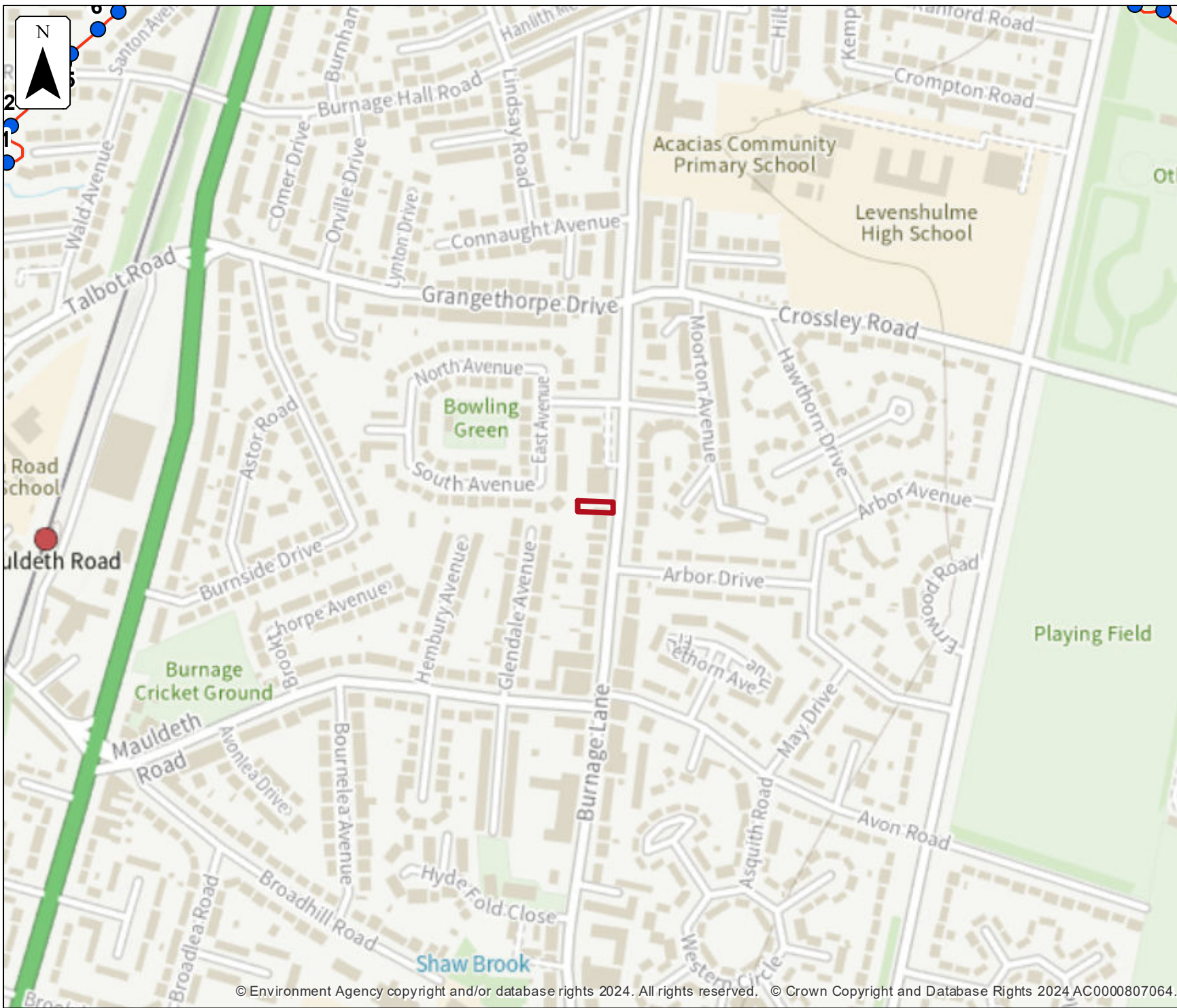
Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level	Flow	Flow	Flow	Flow
1	1440143	386194	393411	40.69	40.70	40.72	40.81	6.33	6.49	7.76	13.25
2	1440040	386197	393446	40.67	40.68	40.70	40.79	4.73	4.79	5.06	5.79
3	1440069	386229	393488	40.75	40.76	40.79	40.88	4.73	4.79	5.06	5.78
4	1440032	386249	393508	41.04	41.05	41.13	41.32	4.73	4.79	5.06	5.78
5	1440145	386255	393517	41.05	41.07	41.14	41.32	4.73	4.79	5.06	6.09
6	1440151	386282	393540	41.14	41.15	41.21	41.39	4.53	4.58	4.77	4.96
7	1440054	386302	393557	41.47	41.48	41.51	41.56	4.53	4.58	4.77	4.96
8	1440103	387290	393563	50.24	50.35	50.88	51.11	5.15	5.27	5.78	5.91
9	1440110	387317	393558	50.40	50.49	50.91	51.13	5.15	5.26	5.65	5.89

Data in this table comes from the Cringle Black Brook 2017 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.

If no level or flow data is available for a scenario, no table will be shown.



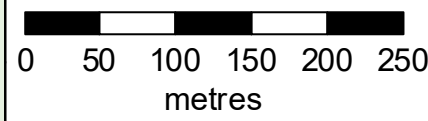
**Defences removed
climate change
modelled fluvial
node locations**

Location (easting/northing)
386765/393077

Scale Created
1:5,000 16 Dec 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level	Flow	Flow	Flow	Flow
1	1440143	386194	393411	40.69	40.70	40.72	40.81	6.33	6.49	7.76	13.25
2	1440040	386197	393446	40.67	40.68	40.70	40.79	4.73	4.79	5.06	5.79
3	1440069	386229	393488	40.75	40.76	40.79	40.88	4.73	4.79	5.06	5.78
4	1440032	386249	393508	41.04	41.05	41.13	41.32	4.73	4.79	5.06	5.78
5	1440145	386255	393517	41.05	41.07	41.14	41.32	4.73	4.79	5.06	6.09
6	1440151	386282	393540	41.14	41.15	41.21	41.39	4.53	4.58	4.77	4.96
7	1440054	386302	393557	41.47	41.48	41.51	41.56	4.53	4.58	4.77	4.96
8	1440103	387290	393563	50.24	50.35	50.88	51.11	5.15	5.27	5.78	5.91
9	1440110	387317	393558	50.40	50.49	50.91	51.13	5.15	5.26	5.65	5.89

Data in this table comes from the Cringle Black Brook 2017 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.

If no level or flow data is available for a scenario, no table will be shown.



Defended modelled fluvial extent and height

Location (easting/northing)
386765/393077

Scale Created
1:500 16 Dec 2024

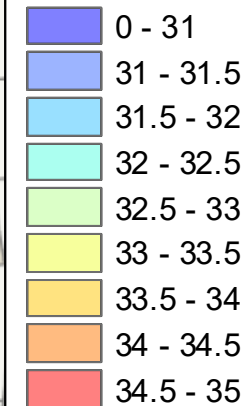
Model name
**Cringle Black Brook
2017**

 Selected area

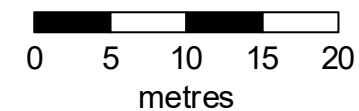
 Main river

Modelled 2D grid

Water level in mAOD



This map shows the
1.0% AEP height data



Sample point data

Defended

Label	Easting	Northing	20% AEP	10% AEP	0.5% AEP	0.1% AEP	50% AEP	4% AEP	2% AEP	1.33% AEP	1% AEP
			Depth	Depth	Depth	Depth	Height	Height	Height	Height	Height
1	386748	393064	NoData	NoData	NoData	0.05	NoData	NoData	NoData	NoData	NoData
2	386755	393064	NoData	NoData	NoData	0.01	NoData	NoData	NoData	NoData	NoData
3	386762	393064	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	386769	393064	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	386776	393064	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	386783	393064	NoData	NoData	NoData	0.17	NoData	NoData	NoData	NoData	NoData
7	386790	393064	NoData	NoData	NoData	0.24	NoData	NoData	NoData	NoData	NoData
8	386741	393071	NoData	NoData	NoData	0.01	NoData	NoData	NoData	NoData	NoData
9	386748	393071	NoData	NoData	NoData	0.01	NoData	NoData	NoData	NoData	NoData
10	386755	393071	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	386762	393071	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	NoData
12	386769	393071	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
13	386776	393071	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	386783	393071	NoData	NoData	NoData	0.09	NoData	NoData	NoData	NoData	NoData
15	386790	393071	NoData	NoData	NoData	0.20	NoData	NoData	NoData	NoData	NoData
16	386741	393078	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	20% AEP	10% AEP	0.5% AEP	0.1% AEP	50% AEP	4% AEP	2% AEP	1.33% AEP	1% AEP
			Depth	Depth	Depth	Depth	Height	Height	Height	Height	Height
17	386748	393078	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	NoData
18	386755	393078	NoData	NoData	NoData	0.02	NoData	NoData	NoData	NoData	NoData
19	386762	393078	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	NoData
20	386769	393078	NoData	NoData	NoData	0.03	NoData	NoData	NoData	NoData	NoData
21	386776	393078	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	NoData
22	386783	393078	NoData	NoData	NoData	0.02	NoData	NoData	NoData	NoData	NoData
23	386790	393078	NoData	NoData	NoData	0.10	NoData	NoData	NoData	NoData	NoData
24	386741	393085	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
25	386748	393085	NoData	NoData	NoData	0.03	NoData	NoData	NoData	NoData	NoData
26	386755	393085	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	NoData
27	386762	393085	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	386769	393085	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
29	386776	393085	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
30	386783	393085	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
31	386790	393085	NoData	NoData	NoData	0.01	NoData	NoData	NoData	NoData	NoData
32	386748	393092	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
33	386755	393092	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			Could not determine	Could not determine	Could not determine	0.06	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine

Data in this table comes from the Cringle Black Brook 2017 model.

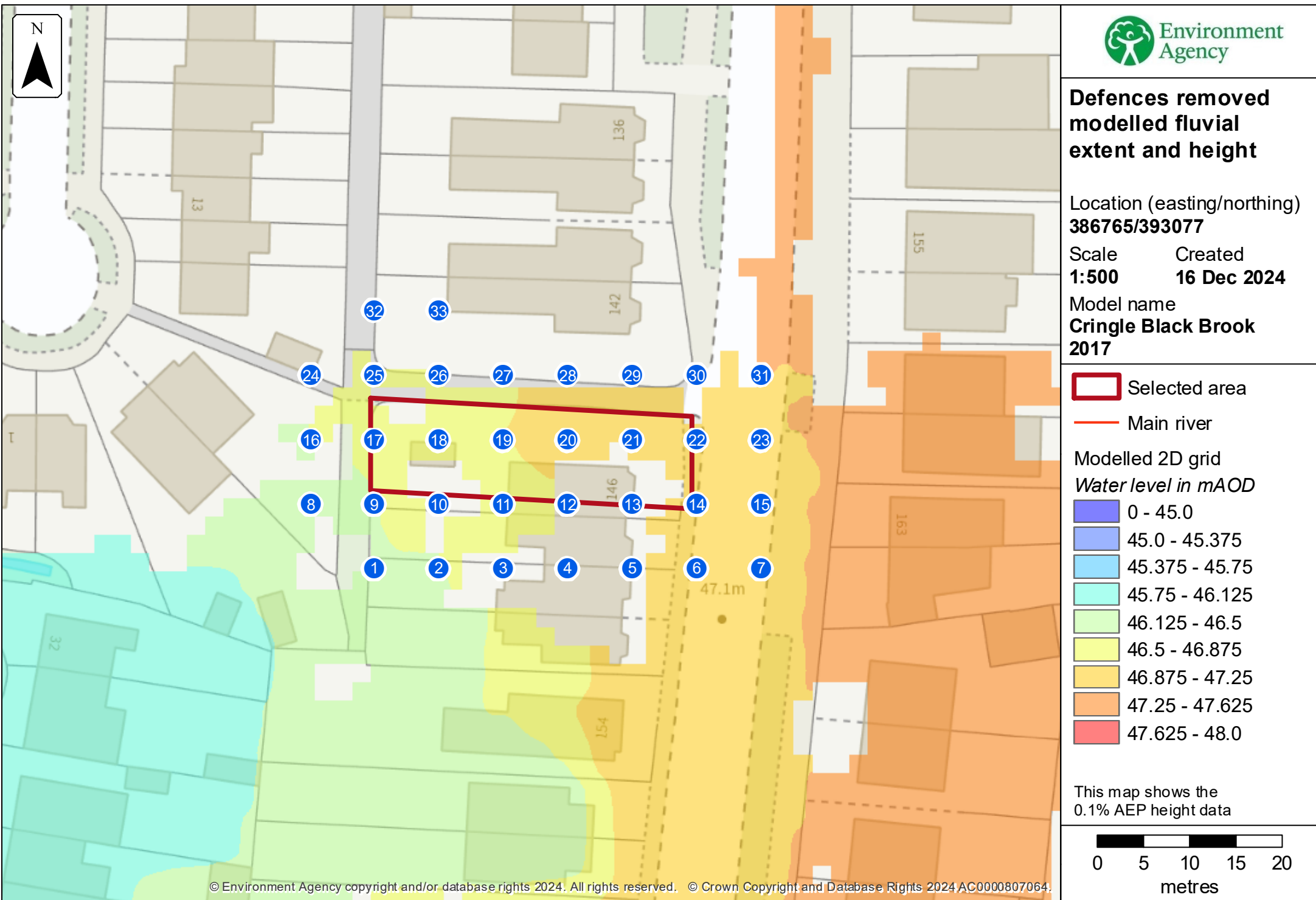
Height values are shown in mAOD, and depth values are shown in metres.

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.



Sample point data

Defences removed

Label	Easting	Northing	3.33% AEP	0.5% AEP	0.1% AEP	4% AEP	1% AEP	0.1% AEP
			Depth	Depth	Depth	Height	Height	Height
1	386748	393064	NoData	NoData	0.05	NoData	NoData	46.43
2	386755	393064	NoData	NoData	0.01	NoData	NoData	46.49
3	386762	393064	NoData	NoData	NoData	NoData	NoData	NoData
4	386769	393064	NoData	NoData	NoData	NoData	NoData	NoData
5	386776	393064	NoData	NoData	NoData	NoData	NoData	NoData
6	386783	393064	NoData	NoData	0.17	NoData	NoData	47.24
7	386790	393064	NoData	NoData	0.24	NoData	NoData	47.24
8	386741	393071	NoData	NoData	0.01	NoData	NoData	46.41
9	386748	393071	NoData	NoData	0.01	NoData	NoData	46.49
10	386755	393071	NoData	NoData	NoData	NoData	NoData	NoData
11	386762	393071	NoData	NoData	0.00	NoData	NoData	46.55
12	386769	393071	NoData	NoData	NoData	NoData	NoData	NoData
13	386776	393071	NoData	NoData	NoData	NoData	NoData	NoData
14	386783	393071	NoData	NoData	0.09	NoData	NoData	47.25
15	386790	393071	NoData	NoData	0.20	NoData	NoData	47.25
16	386741	393078	NoData	NoData	0.00	NoData	NoData	46.49

Label	Easting	Northing	3.33% AEP	0.5% AEP	0.1% AEP	4% AEP	1% AEP	0.1% AEP
			Depth	Depth	Depth	Height	Height	Height
17	386748	393078	NoData	NoData	0.00	NoData	NoData	46.61
18	386755	393078	NoData	NoData	0.02	NoData	NoData	46.69
19	386762	393078	NoData	NoData	0.00	NoData	NoData	46.86
20	386769	393078	NoData	NoData	0.03	NoData	NoData	46.95
21	386776	393078	NoData	NoData	0.00	NoData	NoData	47.12
22	386783	393078	NoData	NoData	0.02	NoData	NoData	47.25
23	386790	393078	NoData	NoData	0.10	NoData	NoData	47.25
24	386741	393085	NoData	NoData	NoData	NoData	NoData	NoData
25	386748	393085	NoData	NoData	0.03	NoData	NoData	46.55
26	386755	393085	NoData	NoData	0.00	NoData	NoData	46.67
27	386762	393085	NoData	NoData	NoData	NoData	NoData	NoData
28	386769	393085	NoData	NoData	NoData	NoData	NoData	NoData
29	386776	393085	NoData	NoData	NoData	NoData	NoData	NoData
30	386783	393085	NoData	NoData	NoData	NoData	NoData	NoData
31	386790	393085	NoData	NoData	0.01	NoData	NoData	47.25
32	386748	393092	NoData	NoData	NoData	NoData	NoData	NoData
33	386755	393092	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			Could not determine	Could not determine	0.06	Could not determine	Could not determine	47.25

Data in this table comes from the Cringle Black Brook 2017 model.

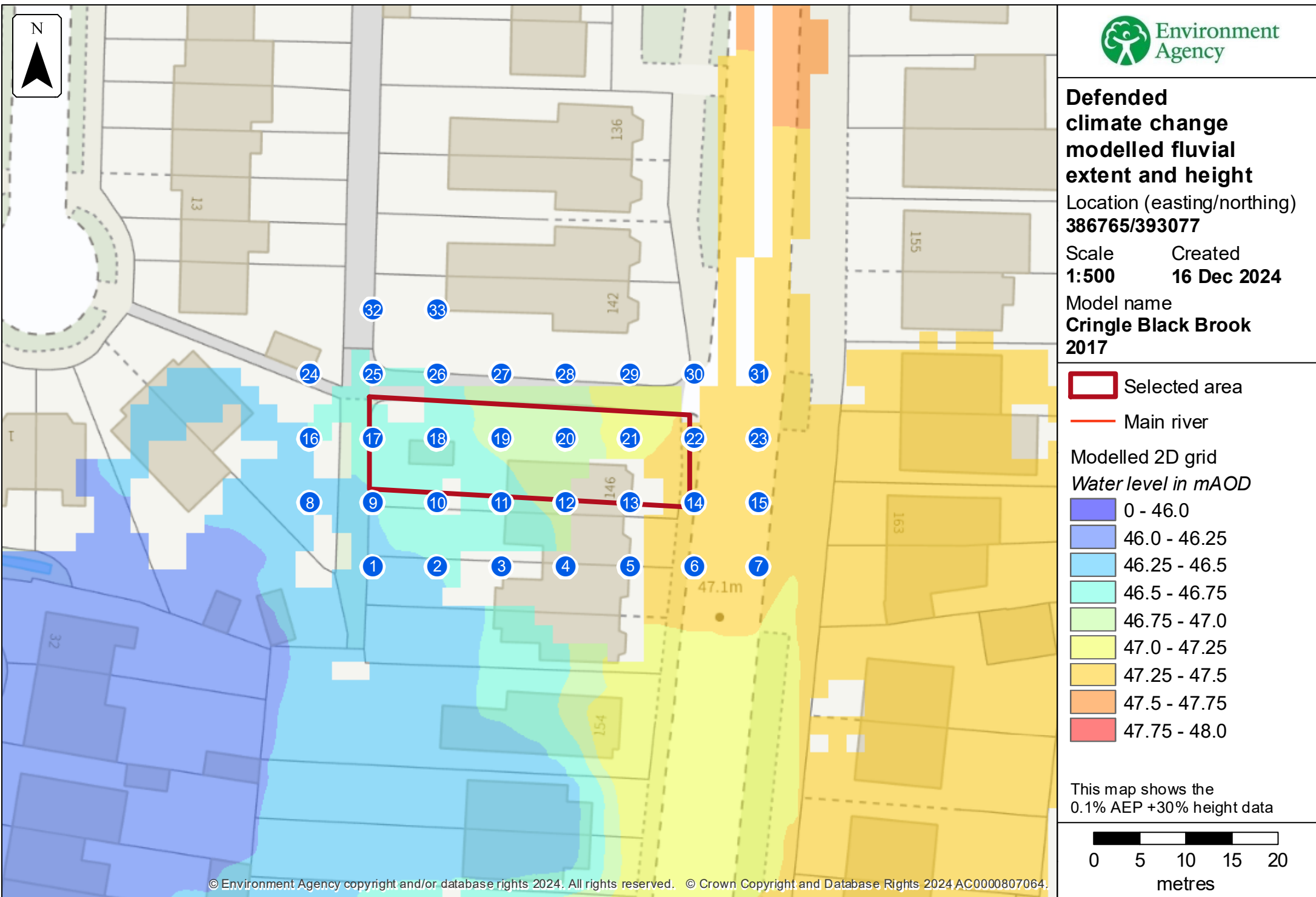
Height values are shown in mAOD, and depth values are shown in metres.

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.



Sample point data

Defended climate change

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+70%)	1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height	Height
1	386748	393064	NoData	NoData	NoData	NoData	46.46
2	386755	393064	NoData	NoData	NoData	NoData	46.50
3	386762	393064	NoData	NoData	NoData	NoData	NoData
4	386769	393064	NoData	NoData	NoData	NoData	NoData
5	386776	393064	NoData	NoData	NoData	NoData	NoData
6	386783	393064	0.05	0.11	47.11	47.18	47.26
7	386790	393064	0.13	0.18	47.11	47.18	47.26
8	386741	393071	NoData	NoData	NoData	NoData	46.42
9	386748	393071	NoData	NoData	NoData	NoData	46.49
10	386755	393071	NoData	NoData	NoData	NoData	46.58
11	386762	393071	NoData	NoData	NoData	NoData	46.56
12	386769	393071	NoData	NoData	NoData	NoData	46.83
13	386776	393071	NoData	NoData	NoData	NoData	NoData
14	386783	393071	NoData	0.03	NoData	47.18	47.26
15	386790	393071	0.08	0.13	47.11	47.18	47.26
16	386741	393078	NoData	NoData	NoData	NoData	46.50

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+70%)	1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height	Height
17	386748	393078	NoData	NoData	NoData	NoData	46.62
18	386755	393078	NoData	NoData	NoData	NoData	46.70
19	386762	393078	NoData	NoData	NoData	NoData	46.86
20	386769	393078	NoData	NoData	NoData	NoData	46.96
21	386776	393078	NoData	NoData	NoData	NoData	47.13
22	386783	393078	NoData	NoData	NoData	NoData	47.26
23	386790	393078	NoData	0.04	NoData	47.18	47.26
24	386741	393085	NoData	NoData	NoData	NoData	NoData
25	386748	393085	NoData	NoData	NoData	NoData	46.56
26	386755	393085	NoData	NoData	NoData	NoData	46.67
27	386762	393085	NoData	NoData	NoData	NoData	NoData
28	386769	393085	NoData	NoData	NoData	NoData	NoData
29	386776	393085	NoData	NoData	NoData	NoData	NoData
30	386783	393085	NoData	NoData	NoData	NoData	NoData
31	386790	393085	NoData	NoData	NoData	NoData	47.26
32	386748	393092	NoData	NoData	NoData	NoData	NoData
33	386755	393092	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			Could not determine	0.01	Could not determine	47.18	47.26

Data in this table comes from the Cringle Black Brook 2017 model.

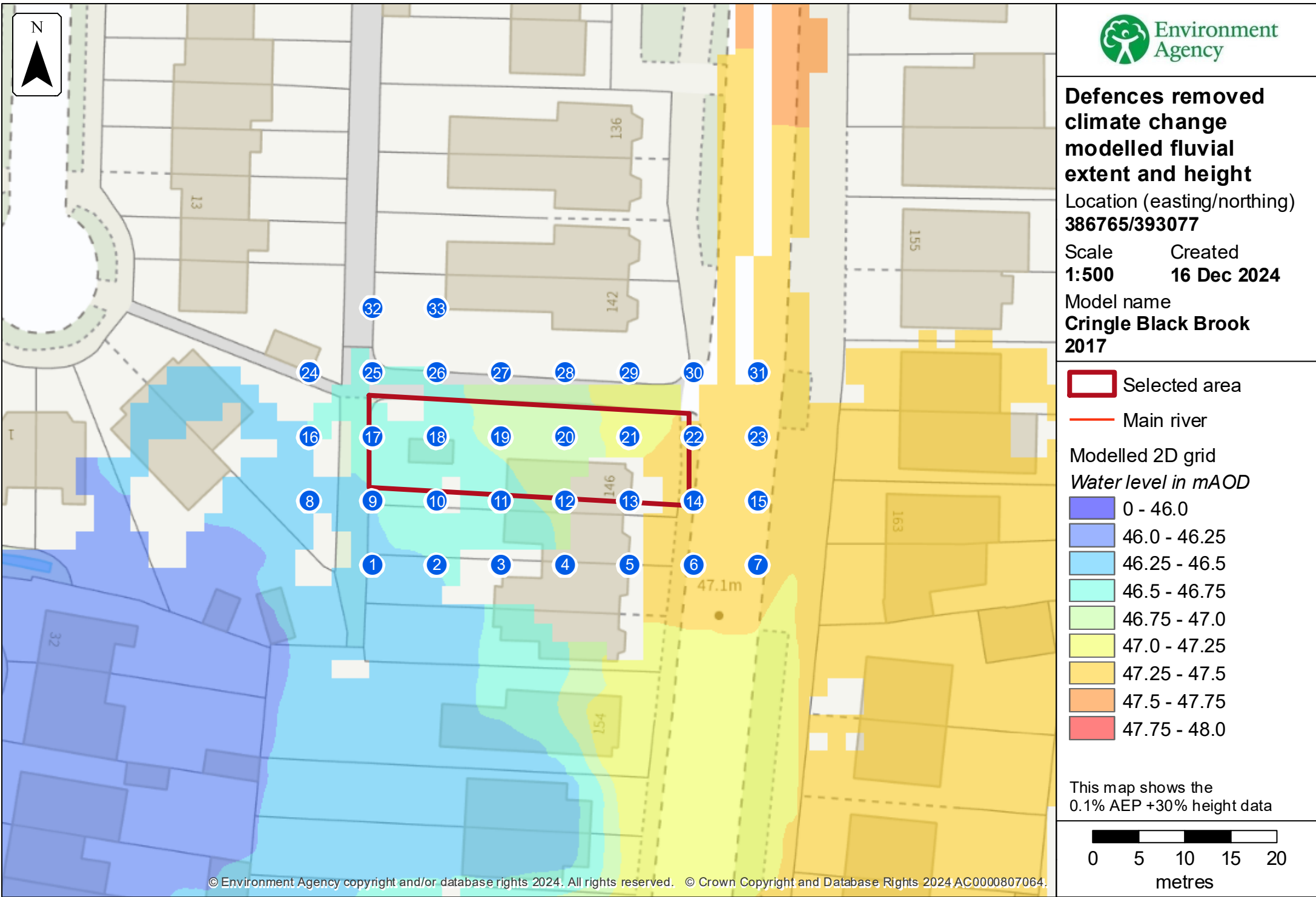
Height values are shown in mAOD, and depth values are shown in metres.

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.



Sample point data

Defences removed climate change

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+30%)	1% AEP (+35%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height	Height
1	386748	393064	NoData	NoData	NoData	NoData	46.46
2	386755	393064	NoData	NoData	NoData	NoData	46.50
3	386762	393064	NoData	NoData	NoData	NoData	NoData
4	386769	393064	NoData	NoData	NoData	NoData	NoData
5	386776	393064	NoData	NoData	NoData	NoData	NoData
6	386783	393064	0.04	0.05	47.11	47.13	47.26
7	386790	393064	0.11	0.13	47.11	47.13	47.26
8	386741	393071	NoData	NoData	NoData	NoData	46.42
9	386748	393071	NoData	NoData	NoData	NoData	46.49
10	386755	393071	NoData	NoData	NoData	NoData	46.58
11	386762	393071	NoData	NoData	NoData	NoData	46.56
12	386769	393071	NoData	NoData	NoData	NoData	46.83
13	386776	393071	NoData	NoData	NoData	NoData	NoData
14	386783	393071	NoData	NoData	NoData	NoData	47.26
15	386790	393071	0.06	0.08	47.11	47.13	47.26
16	386741	393078	NoData	NoData	NoData	NoData	46.50

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+30%)	1% AEP (+35%)	0.1% AEP (+30%)
			Depth	Depth	Height	Height	Height
17	386748	393078	NoData	NoData	NoData	NoData	46.62
18	386755	393078	NoData	NoData	NoData	NoData	46.70
19	386762	393078	NoData	NoData	NoData	NoData	46.86
20	386769	393078	NoData	NoData	NoData	NoData	46.96
21	386776	393078	NoData	NoData	NoData	NoData	47.13
22	386783	393078	NoData	NoData	NoData	NoData	47.26
23	386790	393078	NoData	NoData	NoData	NoData	47.26
24	386741	393085	NoData	NoData	NoData	NoData	NoData
25	386748	393085	NoData	NoData	NoData	NoData	46.56
26	386755	393085	NoData	NoData	NoData	NoData	46.67
27	386762	393085	NoData	NoData	NoData	NoData	NoData
28	386769	393085	NoData	NoData	NoData	NoData	NoData
29	386776	393085	NoData	NoData	NoData	NoData	NoData
30	386783	393085	NoData	NoData	NoData	NoData	NoData
31	386790	393085	NoData	NoData	NoData	NoData	47.26
32	386748	393092	NoData	NoData	NoData	NoData	NoData
33	386755	393092	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			Could not determine	Could not determine	Could not determine	Could not determine	47.26

Data in this table comes from the Cringle Black 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