

Flood risk assessment data

Location of site: 471529 / 106261 (shown as easting and northing coordinates)

Document created on: 6 December 2024

This information was previously known as a product 4.

Customer reference number: VEF7AAMATUA5 / SSD388455DP

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 Hampshire County.

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

About the models used

Model name: Havant Flood Mapping Study 2008

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

Date: 3 November 2008

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

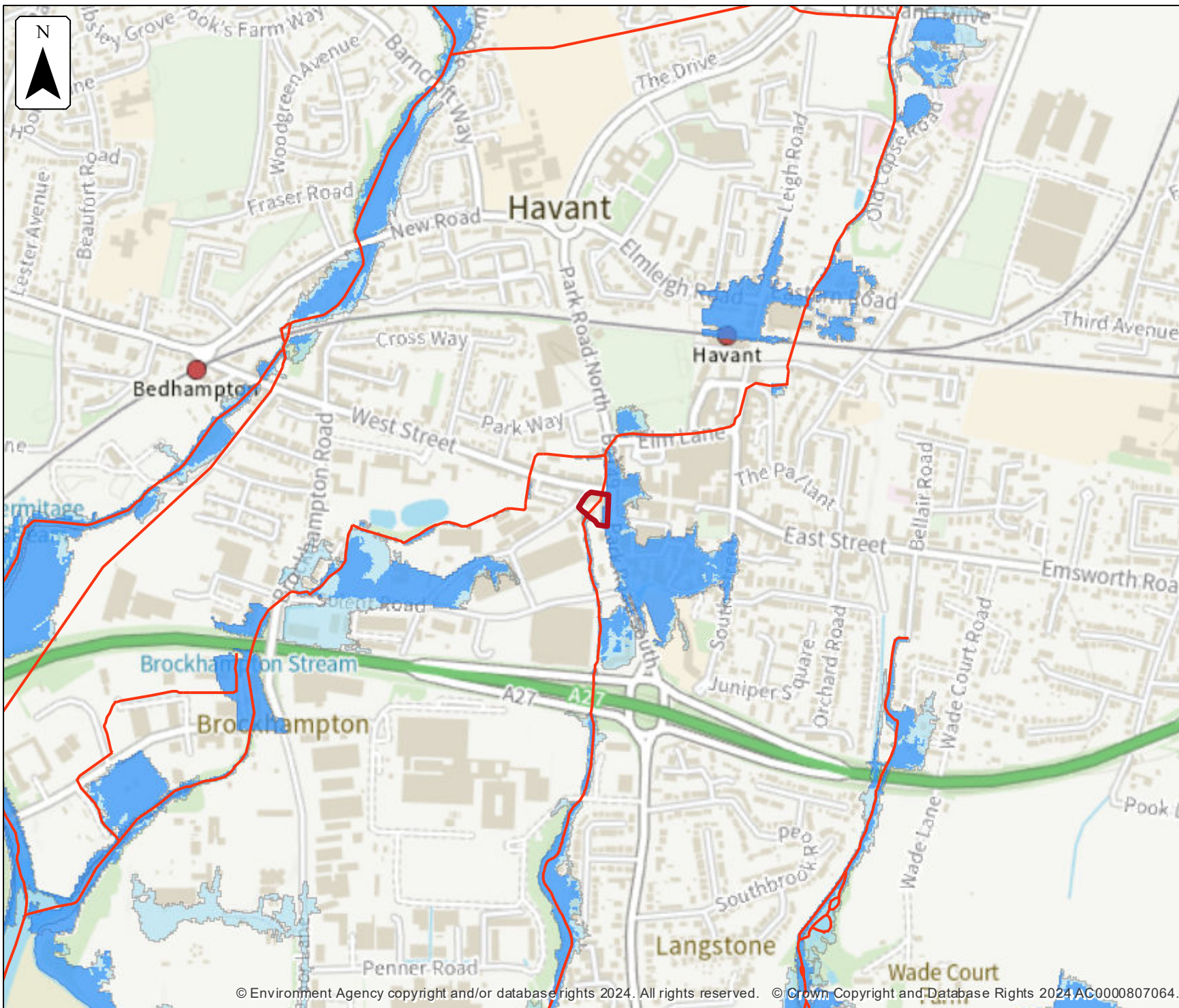
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- 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

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.



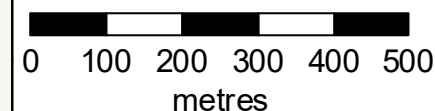
Flood map for planning

Location (easting/northing)
471529/106261

Scale
1:10,000

Created
6 Dec 2024

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



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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

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

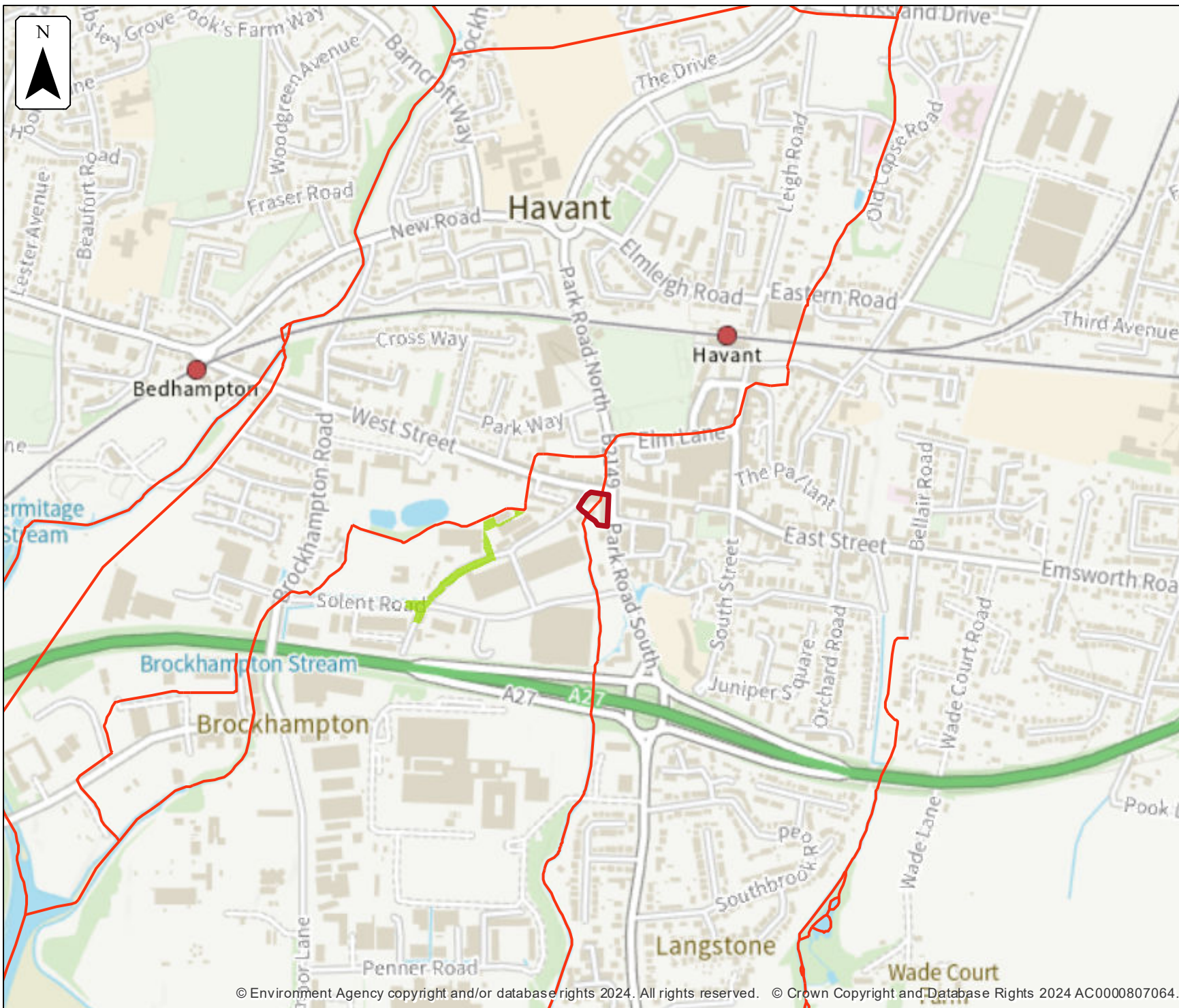
The recorded flood outlines are a geographical information system (GIS) data layer that show our verified records of areas that have flooded in the past from:

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



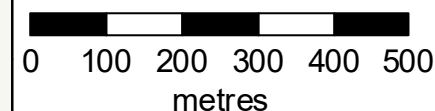
Past floods

Location (easting/northing)
471529/106261

Scale
1:10,000

Created
6 Dec 2024

-  Selected area
-  Main river
- Date of flood event
-  March, 1991



Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
7 March 1991	7 March 1991	main river	unknown	No

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



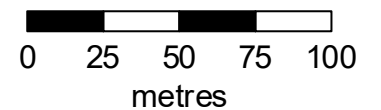
Flood defences

Location (easting/northing)
471529/106261

Scale
1:2,500

Created
6 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	49549	Wall	40		8.15	6.04	
2	19259	Wall	40		7.86	7.18	
3	19260	Wall	40		7.67	7.04	
4	404014	Engineered High Ground					
5	404012	Engineered High Ground					
6	22856	Wall	40		8.02	7.89	7.53

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

Climate change

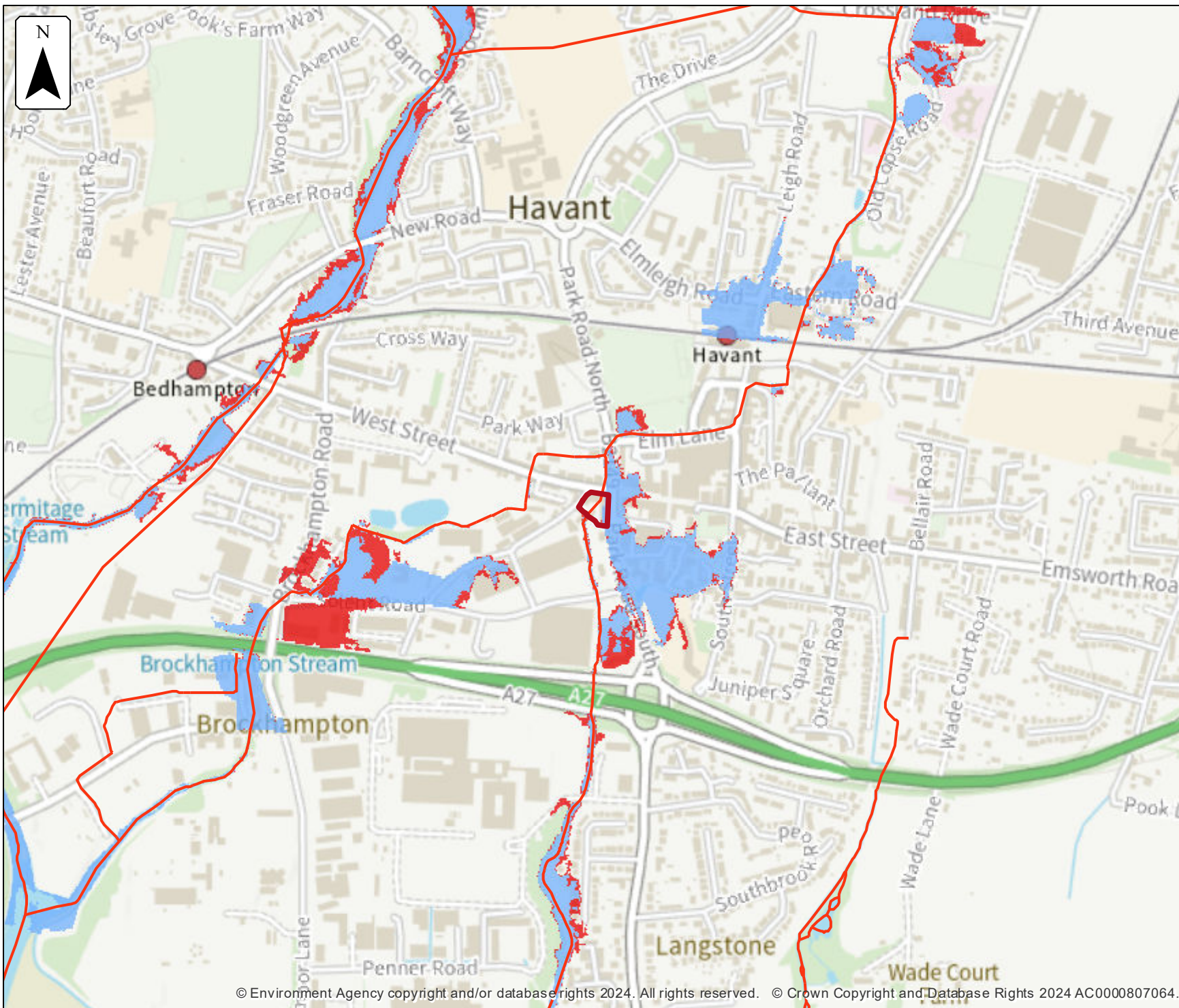
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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 modelled fluvial extent

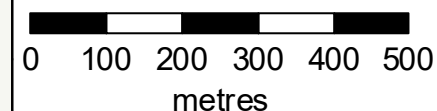
Location (easting/northing)
471529/106261

Scale Created
1:10,000 6 Dec 2024

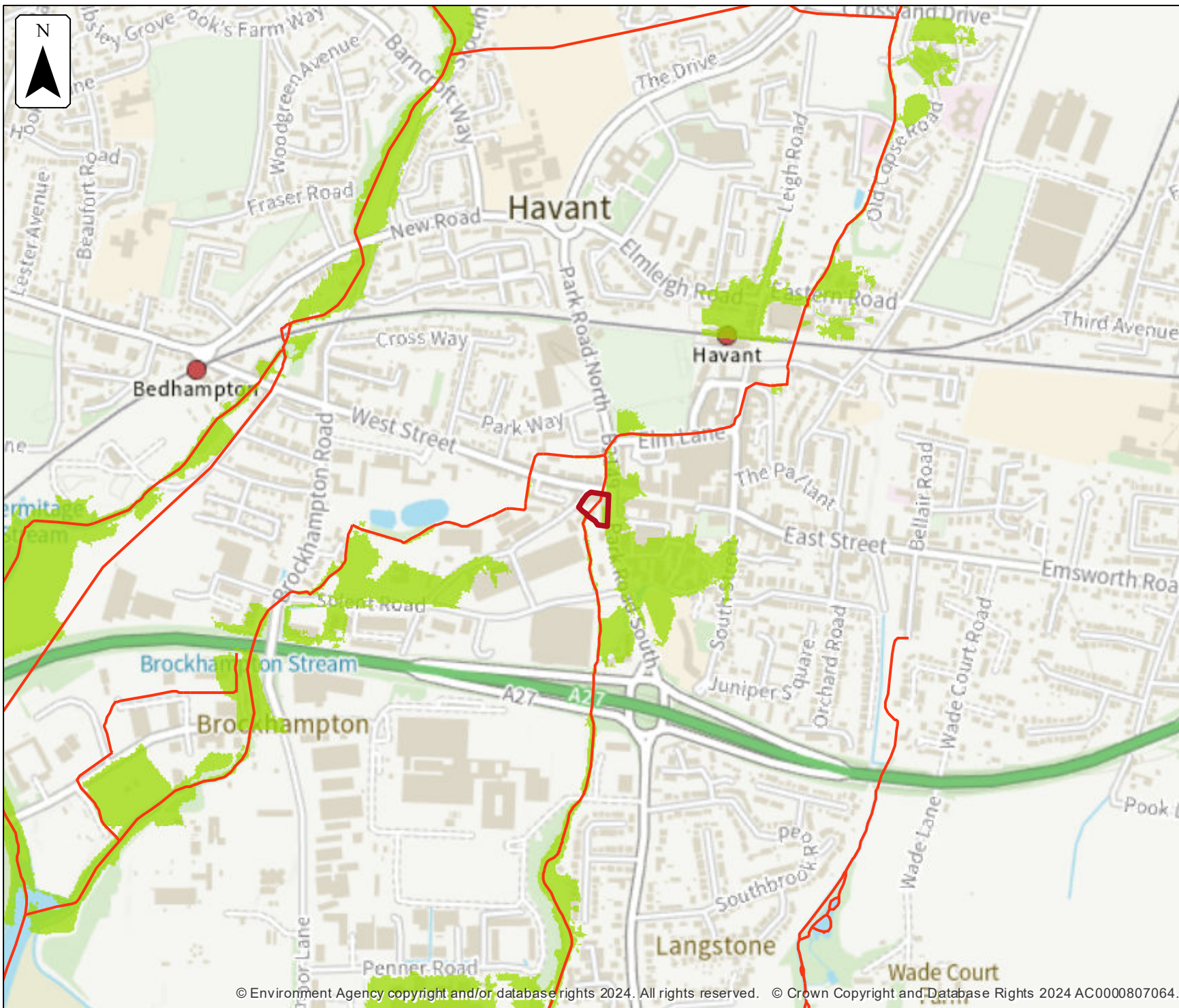
Model name
**Havant Flood Mapping
Study 2008**

- Selected area
- Main river
- Modelled flood extent
- 1% AEP
- 0.1% AEP

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



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No defences exist climate change modelled fluvial extent

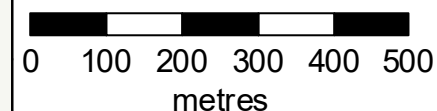
Location (easting/northing)
471529/106261

Scale Created
1:10,000 6 Dec 2024

Model name
**Havant Flood Mapping
Study 2008**

-  Selected area
-  Main river
- Modelled flood extent
 -  1.0% AEP (+20%)

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





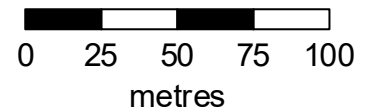
No defences exist modelled fluvial node locations

Location (easting/northing)
471529/106261

Scale Created
1:2,500 6 Dec 2024

Model name
**Havant Flood Mapping
Study 2008**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

No defences exist

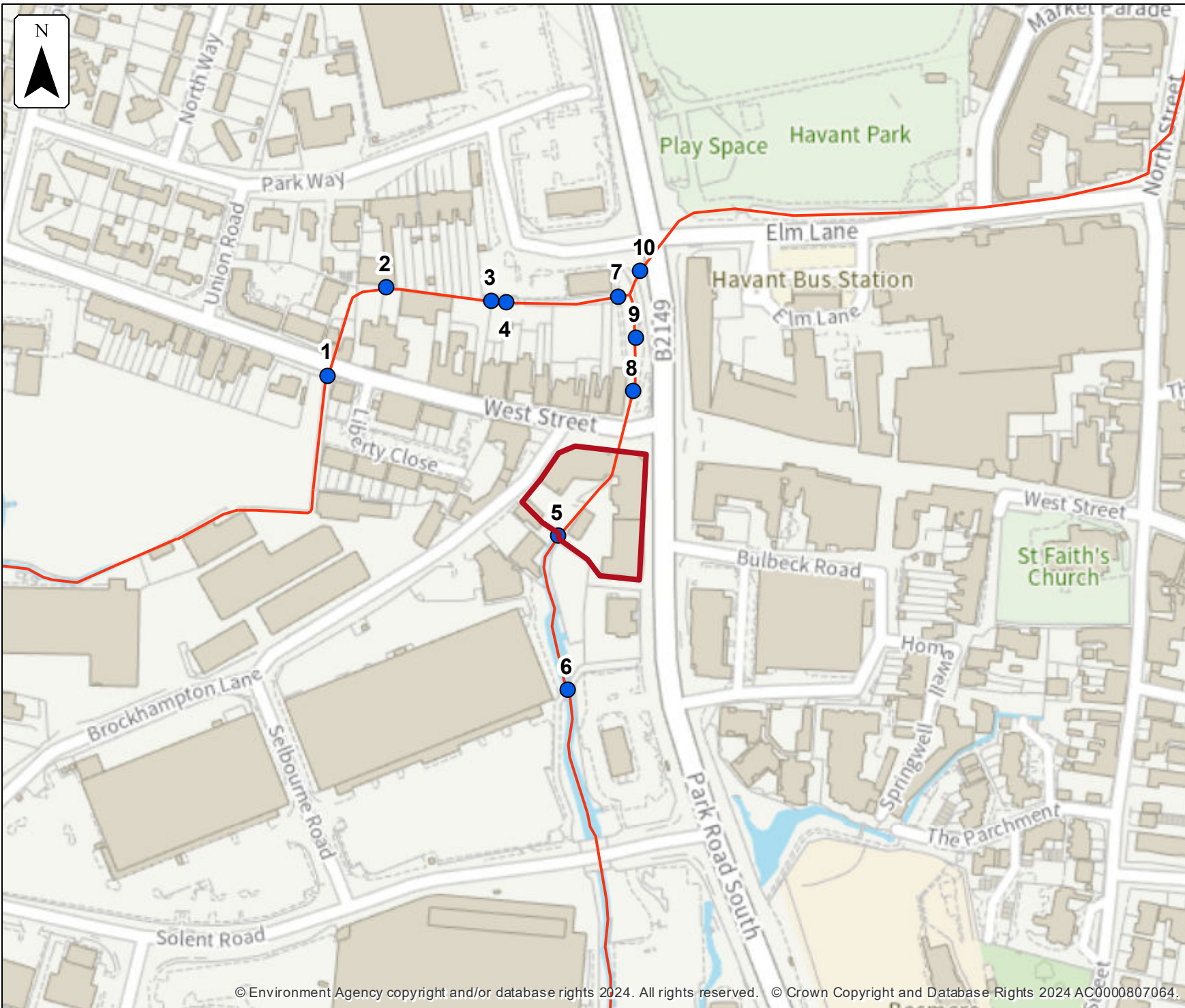
Label	Modelled location ID	Easting	Northing	1% AEP	0.1% AEP	1% AEP	0.1% AEP
				Level	Level	Flow	Flow
1	1112913	471399	106325	6.79	6.83	0.74	0.84
2	1113112	471428	106367	7.04	7.07	0.74	0.83
3	1113077	471479	106361	7.53	7.57	0.74	0.83
4	1113075	471486	106360	7.65	7.70	0.74	0.83
5	1113007	471511	106247	7.69	7.81	1.02	1.02
6	1113222	471516	106172	6.97	7.13	3.34	5.27
7	1113002	471541	106363	7.75	7.80	0.74	0.83
8	1113016	471548	106317	7.78	7.84	1.02	1.02
9	1113323	471549	106343	7.78	7.84	1.02	1.02
10	1112851	471551	106375	7.79	7.84	1.37	1.47

Data in this table comes from the Havant Flood Mapping Study 2008 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.



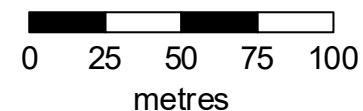
**No defences exist
climate change
modelled fluvial
node locations**

Location (easting/northing)
471529/106261

Scale Created
1:2,500 6 Dec 2024

Model name
**Havant Flood Mapping
Study 2008**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

No defences exist climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+20%)	1% AEP (+20%)
				Level	Flow
1	1112913	471399	106325	6.80	0.77
2	1113112	471428	106367	7.05	0.77
3	1113077	471479	106361	7.54	0.77
4	1113075	471486	106360	7.66	0.77
5	1113007	471511	106247	7.74	1.07
6	1113222	471516	106172	7.03	4.0
7	1113002	471541	106363	7.77	0.77
8	1113016	471548	106317	7.80	1.08
9	1113323	471549	106343	7.80	1.12
10	1112851	471551	106375	7.81	1.66

Data in this table comes from the Havant Flood Mapping Study 2008 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.

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 Hampshire 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 Solent and South Downs Environment Agency team at ssdenquiries@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