Flood risk assessment data

Location of site: 471985 / 107087 (shown as easting and northing coordinates)
Document created on: 4 June 2026
This information was previously known as a product 4.
Customer reference number: 5N4FAF57E431

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

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 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 occuring 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 1.

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

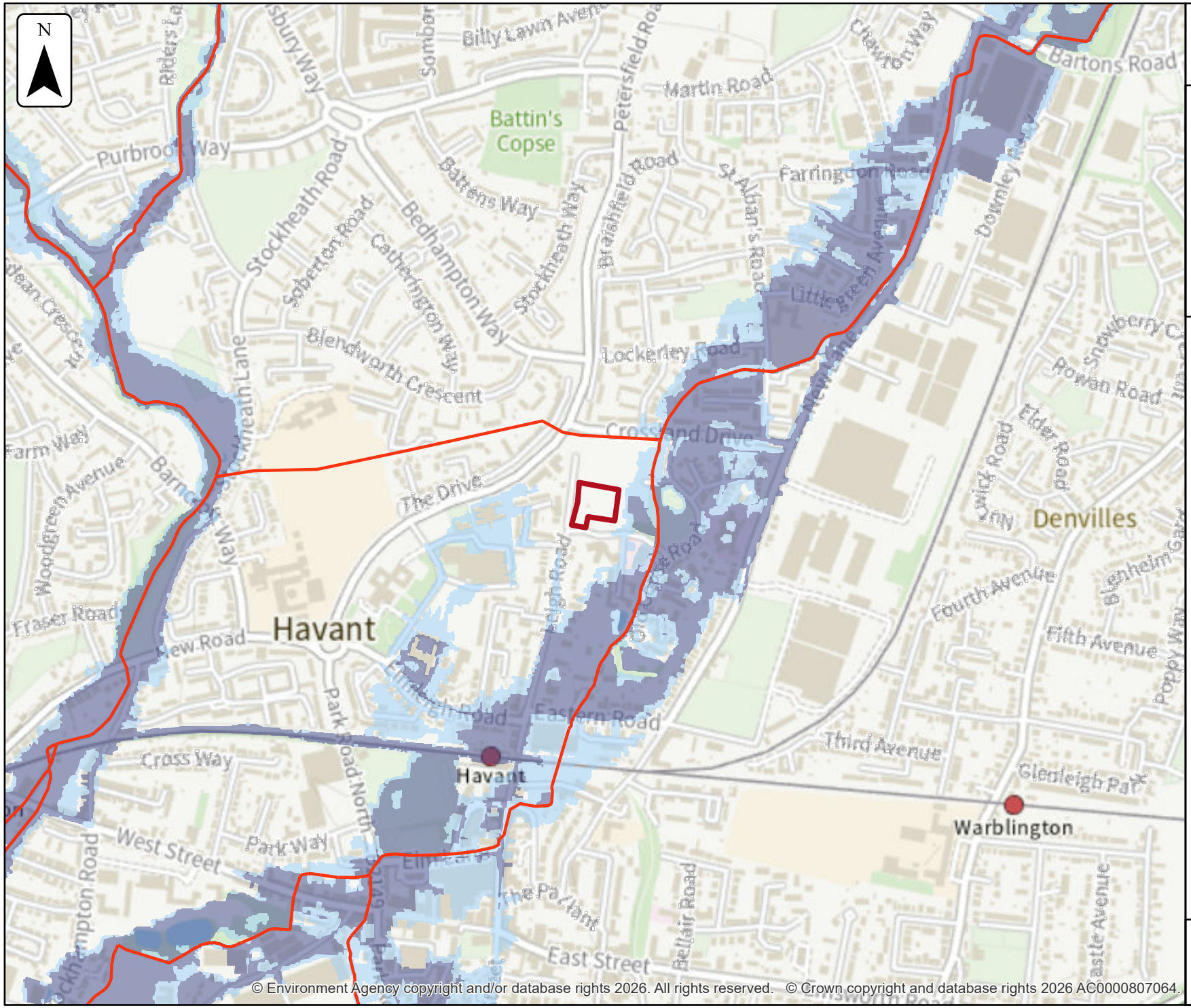
- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

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



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Flood map for planning

Location (easting/northing)
471985/107087

Scale
1:10,000

Created
4 Jun 2026

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

0 100 200 300 400 500
metres

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

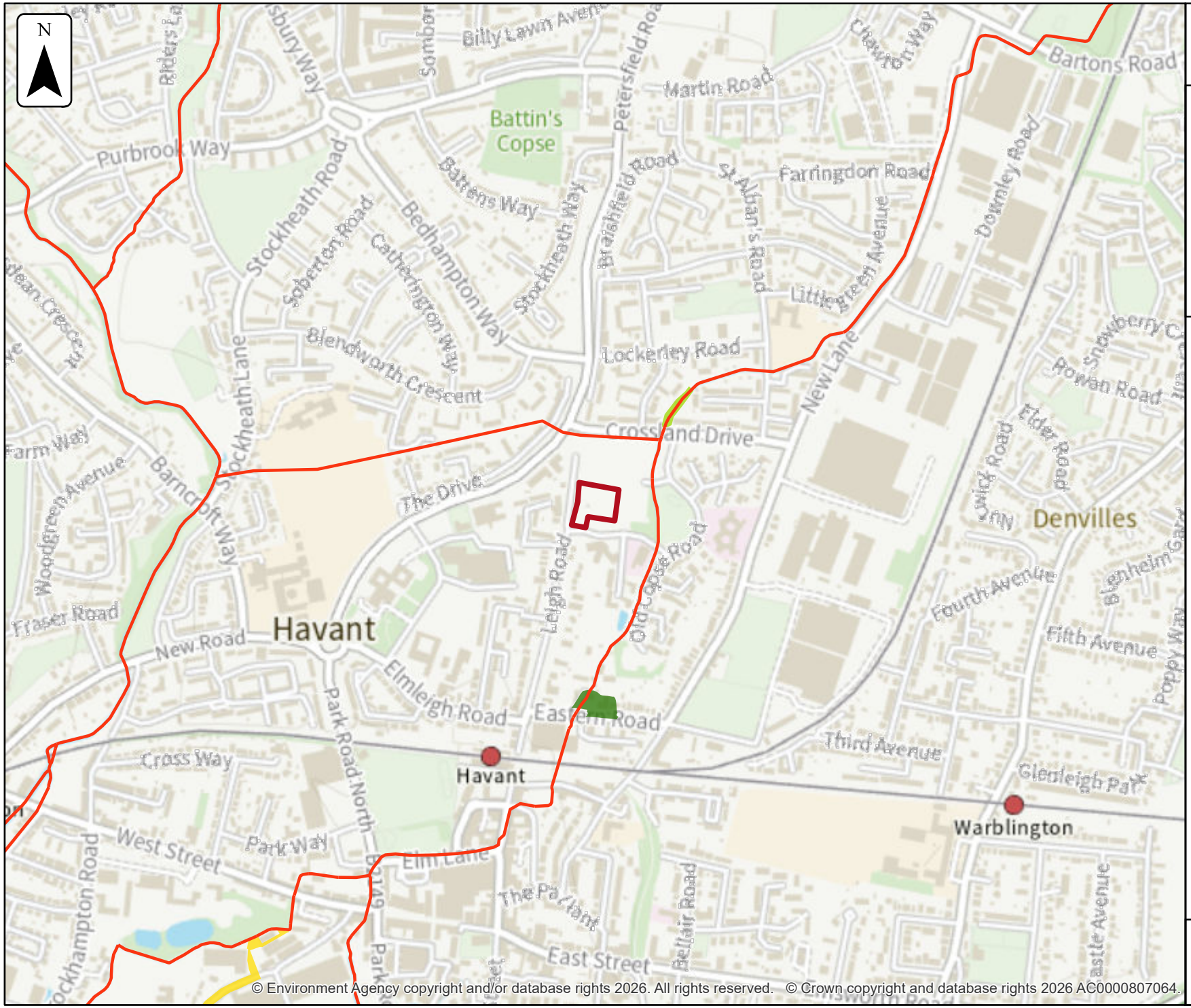
The recorded flood outlines are a geographical information system (GIS) data layer that show our verified records of areas that have flooded in the past from:

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



Environment Agency

Past floods

Location (easting/northing)
471985/107087

Scale
1:10,000

Created
4 Jun 2026

- Selected area
- Main river

Date of flood event

- December, 2000
- January, 2000
- March, 1991

0 100 200 300 400 500
metres

Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
1 December 2000	1 December 2000	unknown	unknown	No
1 January 2000	1 January 2000	unknown	unknown	No
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

Environment Agency

Flood defences

Location (easting/northing)
471985/107087

Scale
1:5,000

Created
4 Jun 2026

- Selected area
- Main river
- Flood defence

0 50 100 150 200 250
metres

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	19032	Engineered High Ground	40	Fair	14.33	13.31	13.43
2	22972	Engineered High Ground	40	Fair	12.82	13.68	
3	47817	Engineered High Ground	40	Fair	17.30	15.20	
4	47720	Engineered High Ground	40	Fair	17.50	13.08	

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

Environment Agency

No defences exist climate change modelled fluvial extent

Location (easting/northing)
471985/107087

Scale
1:10,000

Created
4 Jun 2026

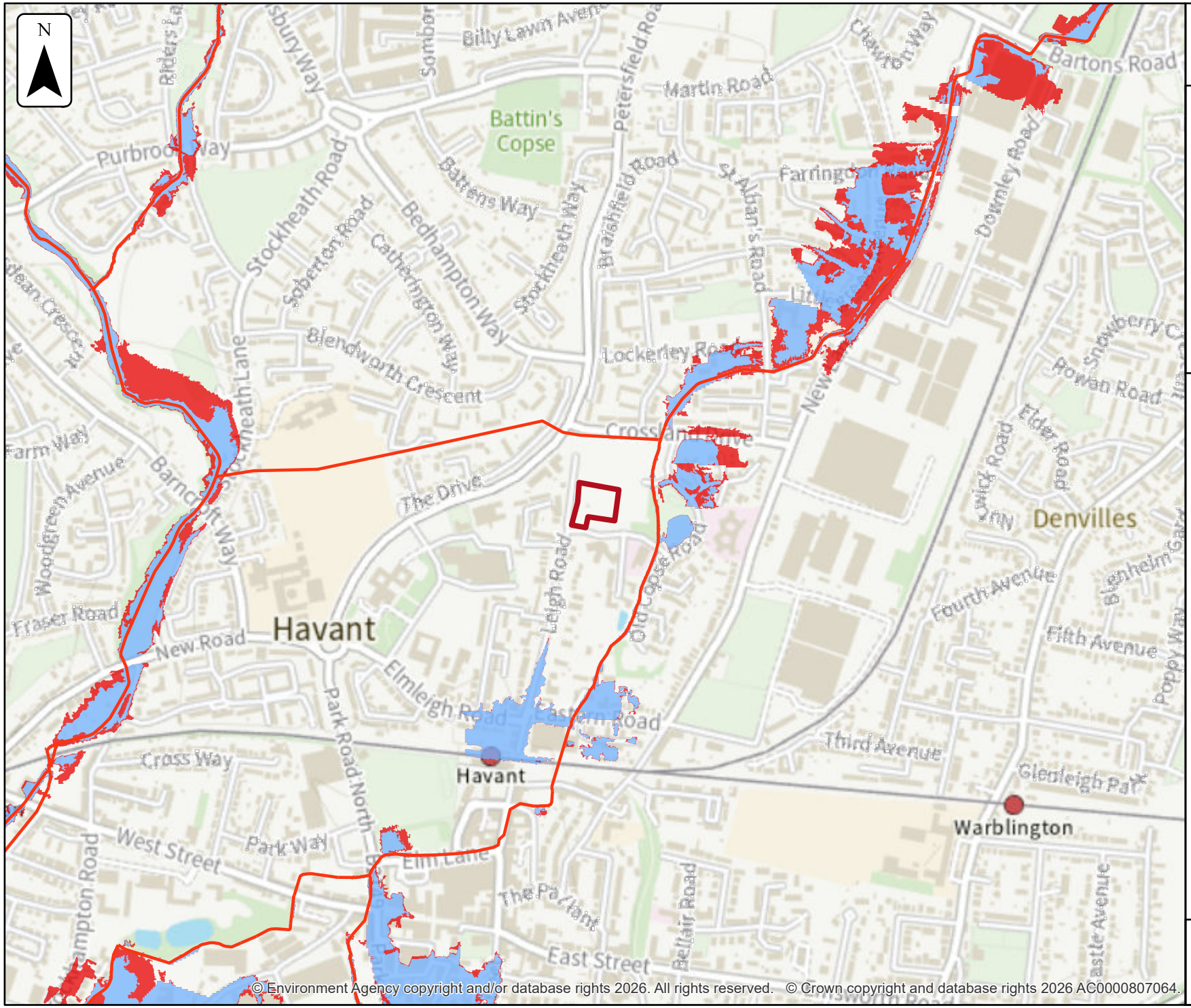
Model name
Havant Flood Mapping Study 2008

- Selected area
- Main river

Modelled flood extent
- 1% AEP (+20%)

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

0 100 200 300 400 500
metres



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

No defences exist modelled fluvial extent

Location (easting/northing)
471985/107087

Scale
1:10,000

Created
4 Jun 2026

Model name
Havant Flood Mapping Study 2008

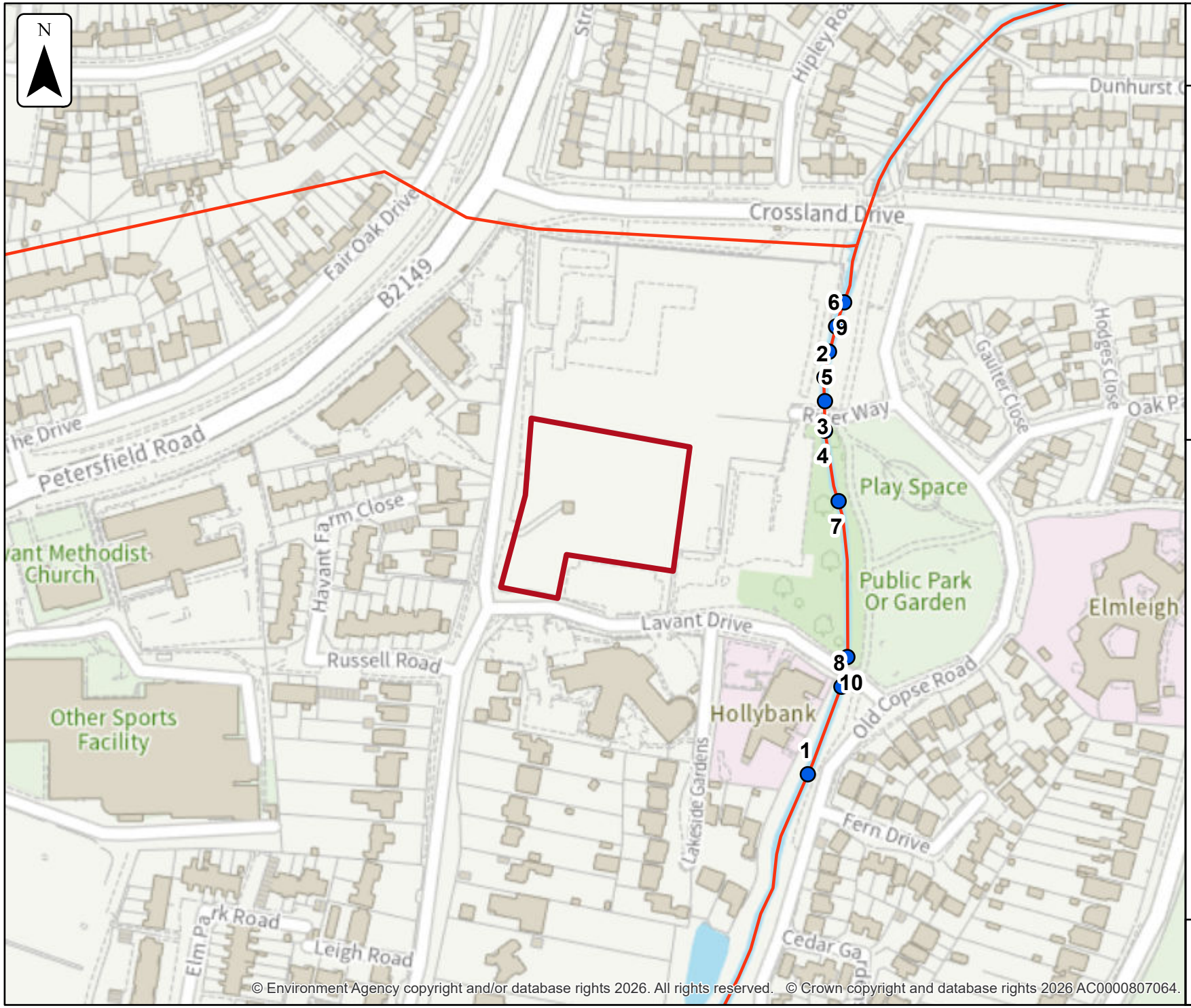
- Selected area
- Main river

Modelled flood extent

- 1% AEP
- 0.1% AEP

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

0 100 200 300 400 500
metres



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

No defences exist modelled fluvial node locations

Location (easting/northing)
471985/107087

Scale
1:2,500

Created
4 Jun 2026

Model name
Havant Flood Mapping Study 2008

- Selected area
- Modelled location
- Main river

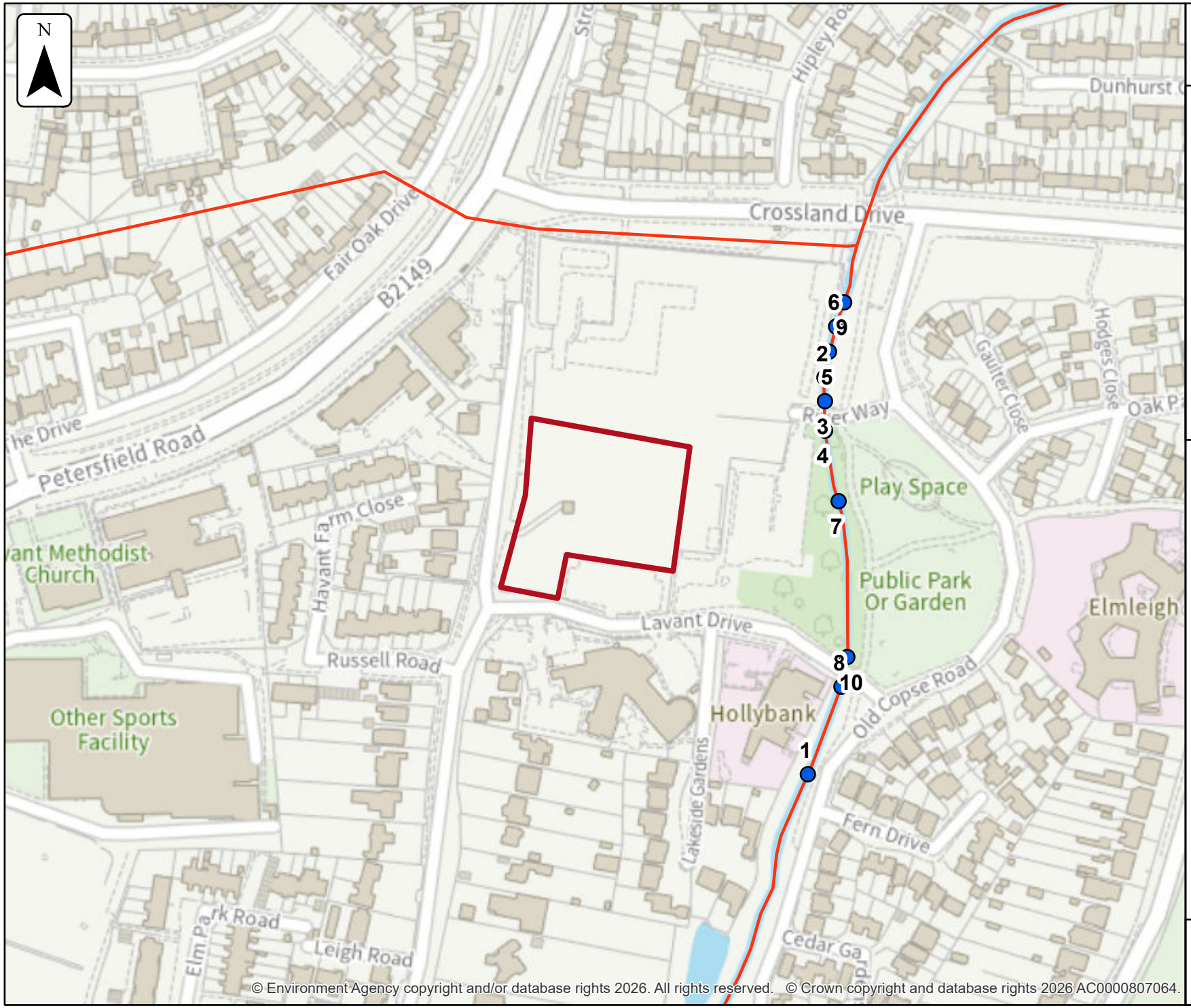
0 25 50 75 100
metres

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	1113121	472089	106955	11.28	11.37	3.48	4.17
2	1113191	472097	107148	11.93	12.08	3.41	3.58
3	1113237	472097	107137	11.93	12.07	3.41	3.58
4	1113043	472097	107122	11.79	11.91	3.41	3.58
5	1113280	472099	107161	11.94	12.08	3.41	3.58
6	1113172	472103	107173	11.96	12.09	3.41	3.58
7	1113203	472104	107088	11.64	11.77	3.48	4.17
8	1112780	472105	106998	11.35	11.44	3.48	4.17
9	1113227	472107	107185	12.06	12.12	3.41	3.58
10	1112840	472108	107012	11.46	11.60	3.48	4.17

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.



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

No defences exist climate change modelled fluvial node locations

Location (easting/northing)
471985/107087

Scale
1:2,500

Created
4 Jun 2026

Model name
Havant Flood Mapping Study 2008

- Selected area
- Modelled location
- Main river

0 25 50 75 100
metres

Modelled node locations data

No defences exist climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+20%)	1% AEP (+20%)
				Level	Flow
1	1113121	472089	106955	11.31	3.68
2	1113191	472097	107148	11.98	3.48
3	1113237	472097	107137	11.97	3.48
4	1113043	472097	107122	11.83	3.48
5	1113280	472099	107161	11.99	3.48
6	1113172	472103	107173	12.0	3.48
7	1113203	472104	107088	11.68	3.68
8	1112780	472105	106998	11.38	3.68
9	1113227	472107	107185	12.08	3.48
10	1112840	472108	107012	11.50	3.68

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.

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

bsp CONSULTING

Nottingham

12 Oxford Street
Nottingham
NG1 5BG

0345 413 4000

Derby

5 Pride Point Drive
Pride Park
Derby
DE24 8BX

0345 413 4000

Leicester

Floor 4
24 De Montfort St
Leicester
LE1 7GB

0345 413 4000

Sheffield

Smithy Wood House
Smithy Wood Cres
Sheffield
S8 0NU

0345 413 4000

www.bsp-consulting.co.uk

REGISTERED MANAGEMENT SYSTEMS BS EN ISO 9001:2015 QUAY AUDIT UK LTD ASCB Accreditation Services Worldwide

REGISTERED MANAGEMENT SYSTEMS BS EN ISO 14001:2015 QUAY AUDIT UK LTD ASCB Accreditation Services Worldwide

equality accredited customer service bronze level

Constructionline

smas worksafe consultant as recognised by SSIP SAFETY SCHEMES IN PROCUREMENT

CYBER ESSENTIALS PLUS

bsi BIM Design and Construction KITEMARK™ KM 718353 BS EN ISO 19650

CORPORATE SOCIAL RESPONSIBILITY ACCREDITED CSRA GOLD ACCREDITATION