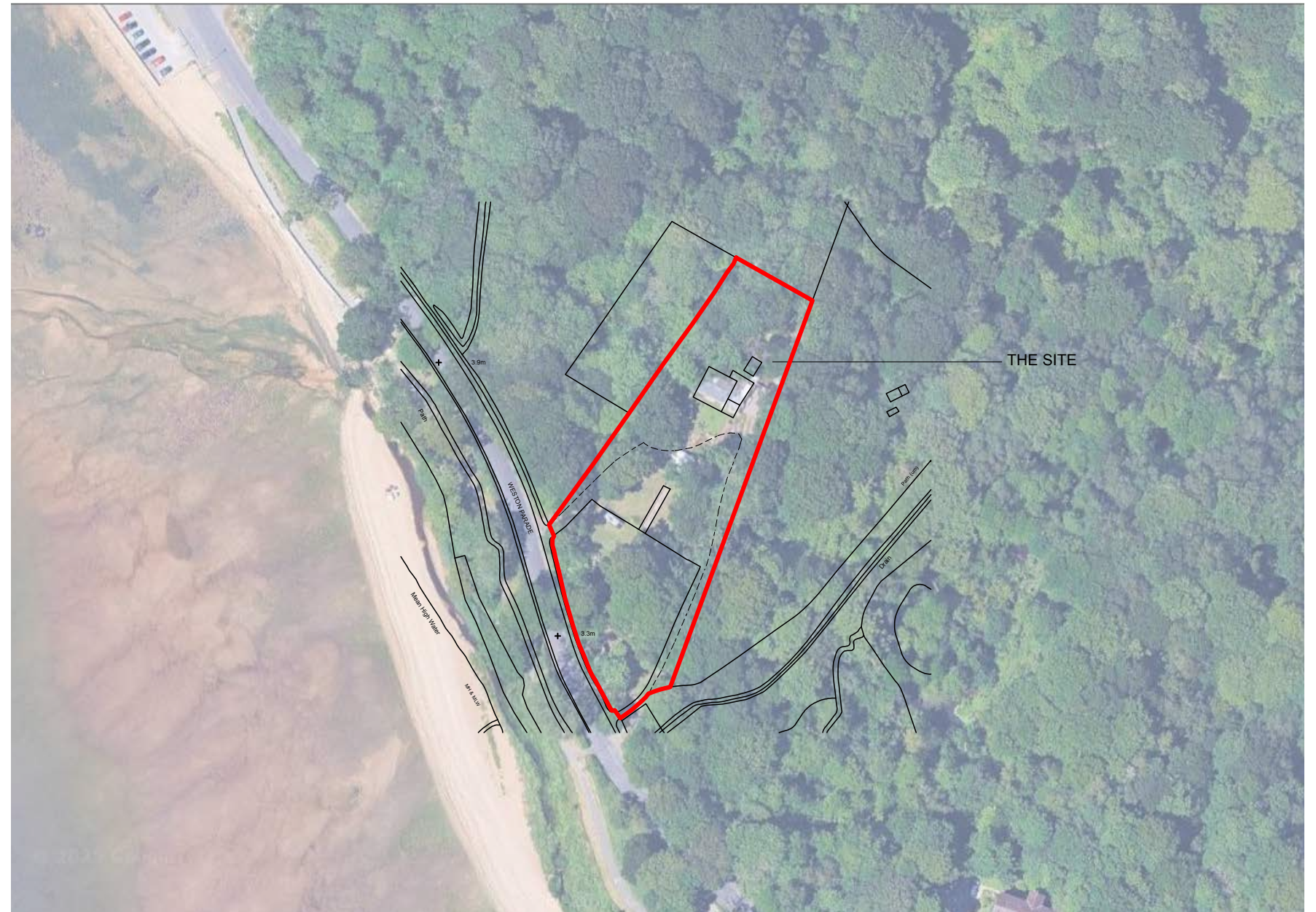


Flood risk assessment

Hilton House,
Weston Parade,
Southampton
SO31 5FB



RIBA Work stages: 3
Published: November 2025

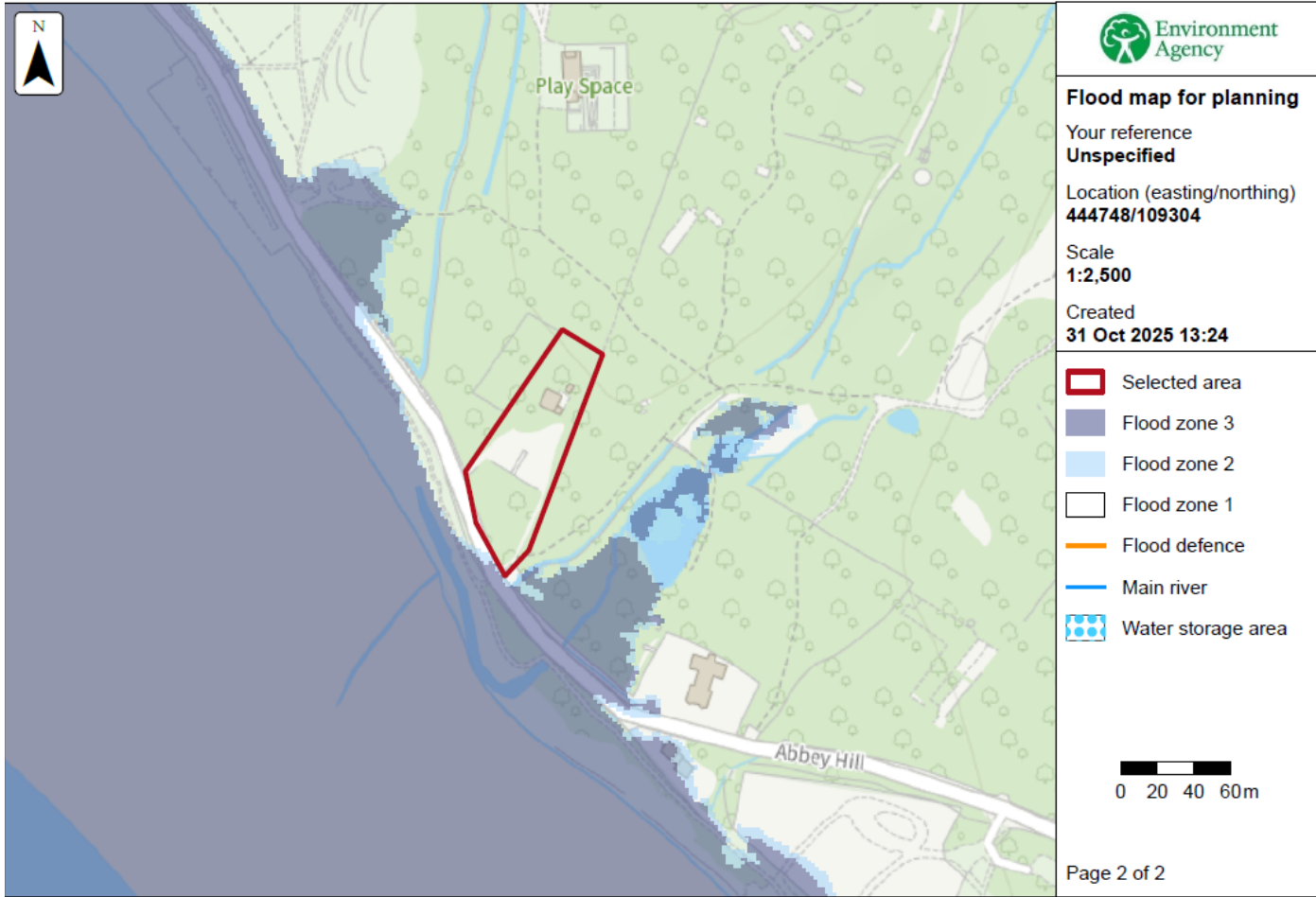
Site Address:
Site of the former Hilton House, Weston Parade, Southampton SO31 5FB

This Flood Risk Assessment (FRA) has been prepared in support of a planning application for the site at Weston Parade, Southampton. The site lies within Flood Zone 2, defined as an area with medium probability of flooding from rivers or the sea. The FRA considers the existing development (outbuilding and containers) and the proposed 5 caravan pitches, in accordance with the Environment Agency Flood Risk Standing Advice

FLOOD RISK ASSESSMENT

1. Introduction

According to the Environment Agency the site lies within Flood Zone2, an area with a medium probability of flooding (see below Environment Agency Floodmap for planning).



Flood map for planning

Your reference	Location (easting/northing)	Created
Unspecified	444748/109304	31 October 2025 13:24

Your selected location is in flood zone 2, an area with a medium probability of flooding.

This means:

- you must complete a flood risk assessment for development in this area
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment (see <https://www.gov.uk/guidance/flood-risk-assessment-standing-advice>)

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2025 AC0000807064. <https://flood-map-for-planning.service.gov.uk/os-terms>

2. Site Description

The site is located on Weston Parade, Southampton, adjacent to the waterfront. The area is an open land with a small portion of hardstanding. See existing block plan indicating existing structures.

Site is sloping towards the south-west, towards the sea levels, with ground levels at lowest level and along the main road, where Flood Zone 2 area is identified.

3. Flood Risk Context

A very small area at the bottom of the site in the south is identified as Flood Zone: 2 – medium probability of flooding.

Environment Agency Flood Map for Planning, Flood Zone 2, 31 October 2025 confirms the flood sources are based on:

- Tidal/coastal flooding from Southampton Water
- River flooding from nearby watercourses
- Surface water flooding (ponding from heavy rainfall)

No specific historic flood records are reported for this exact site; the surrounding coastal areas have experienced occasional surface water and tidal flooding during extreme weather events. During the current ownership of this site it has never flooded and the only area that floods is the Abbey Hill Road.

4. Assessment of Flood Mitigation Measures

Flood risk to people and property is minimised with proposed caravan pitches located on raised ground levels, and with the caravan accommodation being raised above ground levels.

For the outbuilding and containers that will remain in their current locations, there is no increase in footprint. Storage is classified as less vulnerable.

Safe pedestrian and vehicle access will be maintained in case of flooding. Emergency evacuation plan to be in place for caravan occupants.

Existing hardstanding and outbuilding areas do not significantly increase surface water runoff, whilst generous permeable surfaces will be used for caravan pitches to reduce runoff.

New caravan structures are temporary accommodation and are built used materials resistant to flood damage.

5. Residual Risk

Residual risk remains due to tidal or fluvial events exceeding the design flood level. Safe access/evacuation plan will ensure minimal risk to life and occupants of caravan pitches will be advised to monitor local flood warnings.

6. Conclusion

The small southern part of site lies within Flood Zone 2, medium probability of flooding. The retrospective structures do not increase flood risk. The proposed 5 caravan pitches have been assessed and can be accommodated safely with mitigation measures. Flood risk can be effectively managed through proposed location of temporary accommodation and safe access/evacuation.

This FRA demonstrates that the proposed development complies with planning policy regarding flood risk and Environment Agency standing advice, and that risk to life and property can be minimised.

SEE ATTACHED ENVIRONMENT AGENCY REPORTS OBTAINED FOR THIS SITE

Karolina Stephenson
karolina@studiobad.co.uk

Our ref: EIR2025/38989
Your ref: 1F7RAH4NWM19
Date: 12 November 2025

Dear Karolina Stephenson,

RE: Environmental Information Regulations: EIR2025/38989

Thank you for your request for information regarding flood risk assessment data, which we received on 31st October 2025.

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

Please find attached the flood risk assessment information (Product 4) for Site off Western Parade, Weston, SO31 5FB.

Please note that the flood zones were updated on 25th March 2025 on our Flood Map for Planning service. The flood zone extent may have changed for your area of interest, but any flood levels provided in this Product 4 will not. There is no need to contact us again to request flood risk data. You can visit our [Flood Map for Planning service](#) after that date and download the map showing the new flood zone (Product 1).

FRA Advisory

Name	Product 4
Description	Flood Risk Assessment Map for Site off Western Parade, Weston, SO31 5FB.
Licence	Open Government Licence
Information Warnings	If we have provided climate change data, it has now been superseded by UKCP18. We have scheduled updates to our flood models to incorporate UKCP18 data, but until this is complete the majority of our models will not provide appropriate climate change data for use within Flood Risk Assessments. The correct allowances will need to be calculated using the following data: https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances

	Failure to use the correct climate change data may result in us objecting to planning applications upon which we are consulted by Local Planning Authorities.
Information Warning - OS background mapping	<i>The mapping of features provided as a background in this product is © Ordnance Survey. It is provided to give context to this product. The Open Government Licence does not apply to this background mapping. You are granted a non-exclusive, royalty free, revocable licence solely to view the Licensed Data for non-commercial purposes for the period during which the Environment Agency makes it available. You are not permitted to copy, sub-license, distribute, sell, or otherwise make available the Licensed Data to third parties in any form. Third party rights to enforce the terms of this licence shall be reserved to OS.</i>
Attribution	Contains Environment Agency information © Environment Agency and/or database rights. Contains Ordnance Survey data © Crown copyright 2017 Ordnance Survey 100024198.

Does Your Proposal Have Environmental Issues or Opportunities? Speak To Us Early!

If you are planning a new project or development, we want to work with you to make the process as smooth as possible. Early engagement can improve subsequent planning applications to you and your clients' benefit and deliver environmental outcomes. For a cost recovery fee of £100 per hour plus VAT we will provide you with a project manager who will coordinate all meetings and reviews in order to give you detailed specialist advice with guaranteed delivery dates. More information can be found on our website [here](#).

Please get in touch if you have any further queries.

Rights of appeal

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

If you are not satisfied with the outcome of the internal review, you can then make an appeal to the Information Commissioner Office, the statutory regulator for EIR and the Freedom of

creating a better place
for people and wildlife



Information Act 2002. The address is: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire. SK9 5AF.

Tel: 0303 123 1113 (local rate) or 01625 545 745 (national rate) | Fax: 01625 524 510 Email: casework@ico.org.uk | Website: www.ico.org.uk

Yours sincerely,

Abbie Parker

Abbie Parker | BSc

Flood & Coastal Risk Officer - South East Hampshire & IOW

Environment Agency | Partnership & Strategic Overview Team

psohiow@environment-agency.gov.uk



Flood map for planning

Your reference
Unspecified

Location (easting/northing)
444748/109304

Created
31 October 2025 13:24

Your selected location is in flood zone 2, an area with a medium probability of flooding.

This means:

- you must complete a flood risk assessment for development in this area
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment (see <https://www.gov.uk/guidance/flood-risk-assessment-standing-advice>)

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3>

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Flood map for planning

Your reference

Unspecified

Location (easting/northing)

444748/109304

Scale

1:2,500

Created

31 Oct 2025 13:24

-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area



0 20 40 60m

Flood risk assessment data



Location of site: 444748 / 109304 (shown as easting and northing coordinates)

Document created on: 31 October 2025

This information was previously known as a product 4.

Customer reference number: 1F7RAH4NWM19 / EIR2025/38989

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)
- 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
- flood defences and attributes

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.

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

Surface water and other sources of flooding

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

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

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

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

Your Lead Local Flood Authority is City of Southampton.

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

About the models used

Model name: Southampton Water Coastal Modelling Study 2014

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

Date: 1 May 2014

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:

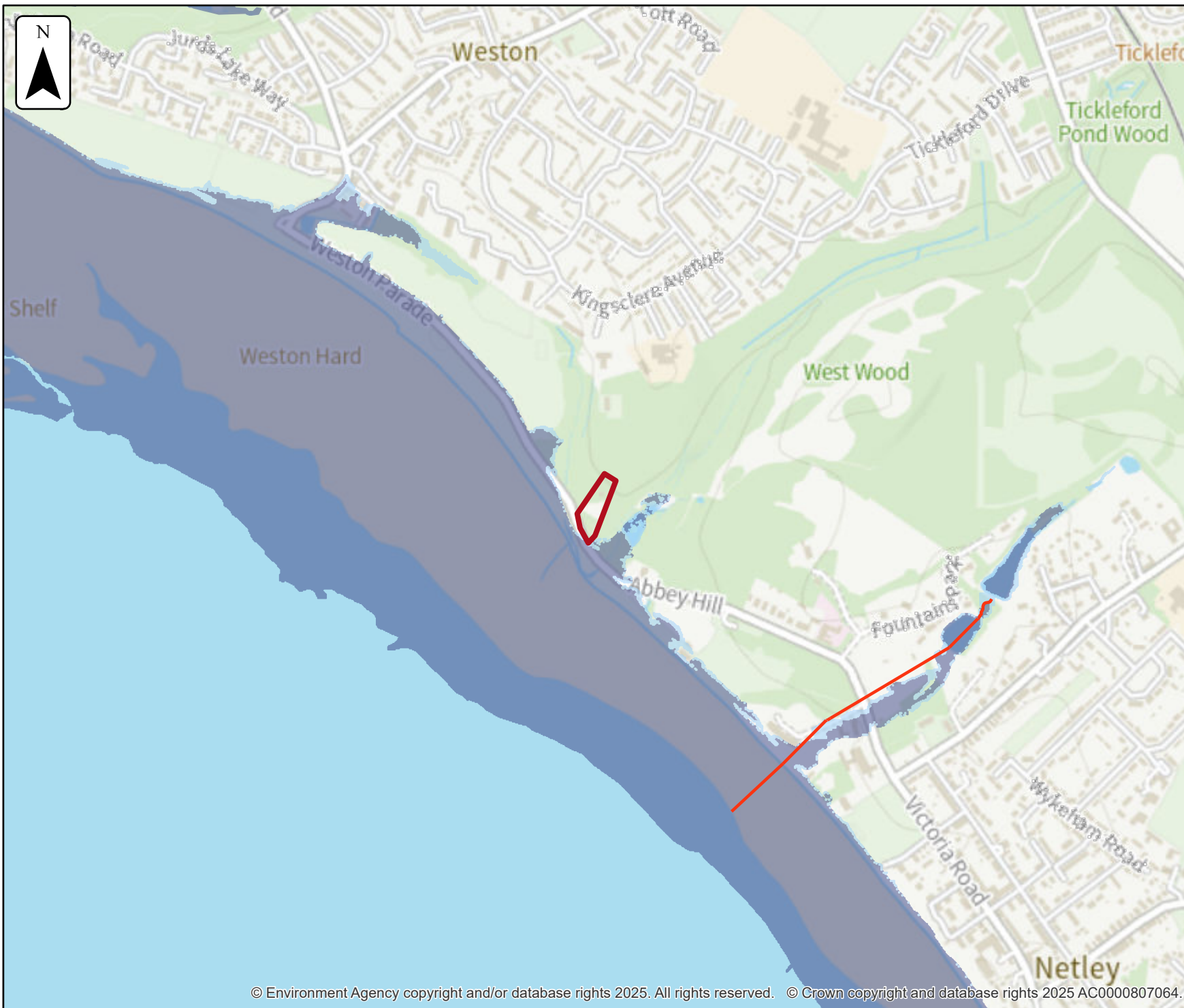
- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

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



Flood map for planning

Location (easting/northing)
444748/109304

Scale
1:10,000

Created
31 Oct 2025

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


0 100 200 300 400 500
metres

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
- 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

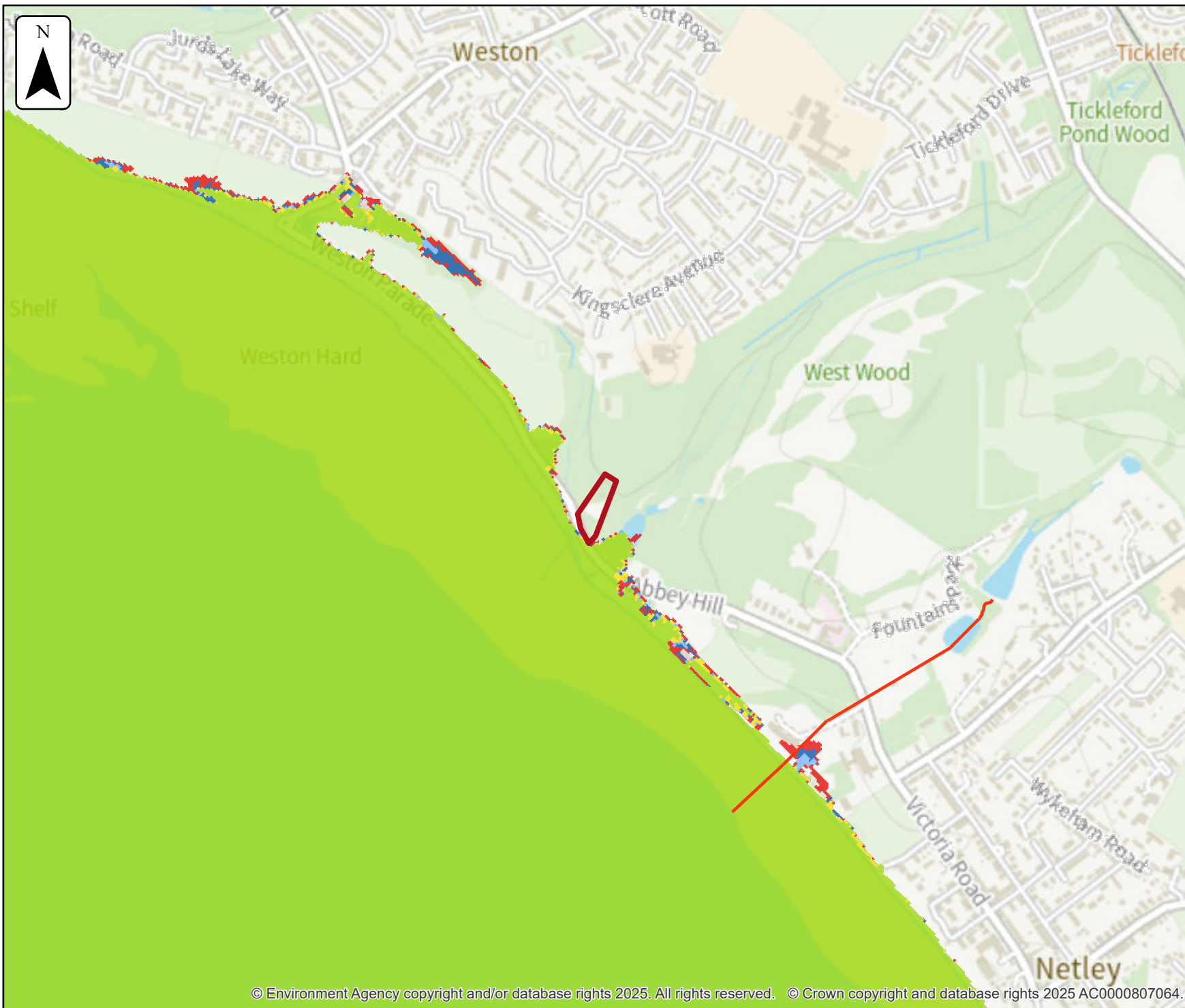
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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 tidal: risk of flooding from the sea where there are flood defences
- Defences removed modelled tidal: risk of flooding from the sea where flood defences have been removed
- Defended climate change modelled tidal: risk of flooding from the sea where there are flood defences, including estimated impact of climate change
- Defences removed climate change modelled tidal: risk of flooding from the sea where flood defences have been removed, including estimated impact of climate change



Defended modelled tidal extent

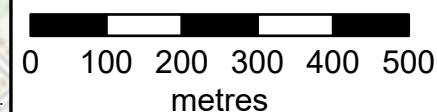
Location (easting/northing)
444748/109304

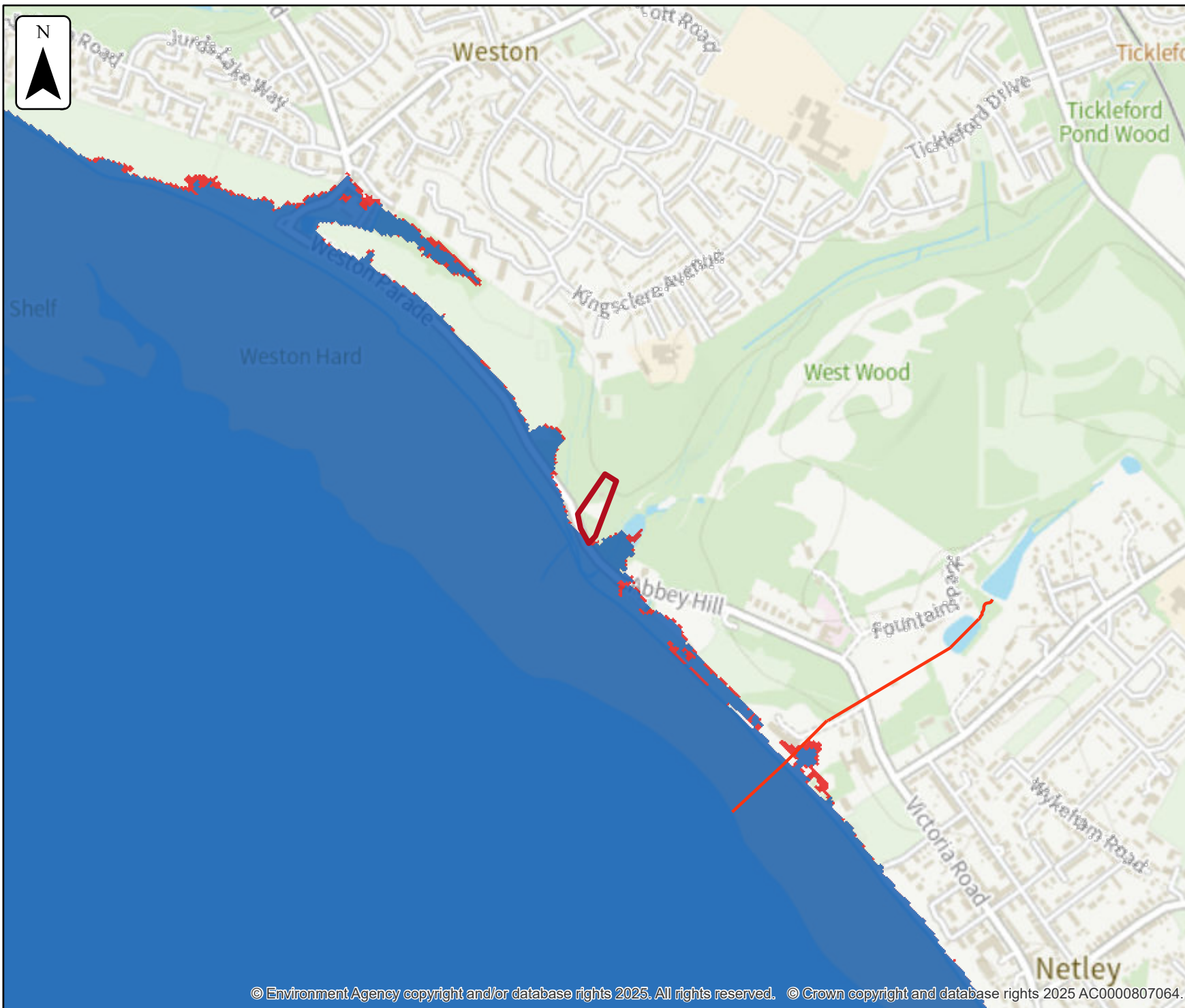
Scale Created
1:10,000 31 Oct 2025

Model name
**Southampton Water
Coastal Modelling**

- Selected area
- Main river
- Modelled flood extent
- 5% 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 tidal extent

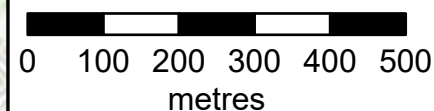
Location (easting/northing)
444748/109304

Scale Created
1:10,000 31 Oct 2025

Model name
**Southampton Water
Coastal Modelling**

-  Selected area
-  Main river
- Modelled flood extent
 -  0.5% AEP
 -  0.1% AEP

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





Defended climate change modelled tidal extent

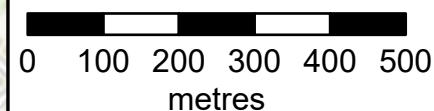
Location (easting/northing)
444748/109304

Scale Created
1:10,000 31 Oct 2025

Model name
**Southampton Water
Coastal Modelling**

- Selected area
- Main river
- Modelled flood extent
- 0.5% AEP (+413mm)
- 0.5% AEP (+758mm)
- 0.1% AEP (+413mm)
- 0.1% AEP (+758mm)

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





Defences removed climate change modelled tidal extent

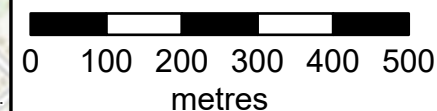
Location (easting/northing)
444748/109304

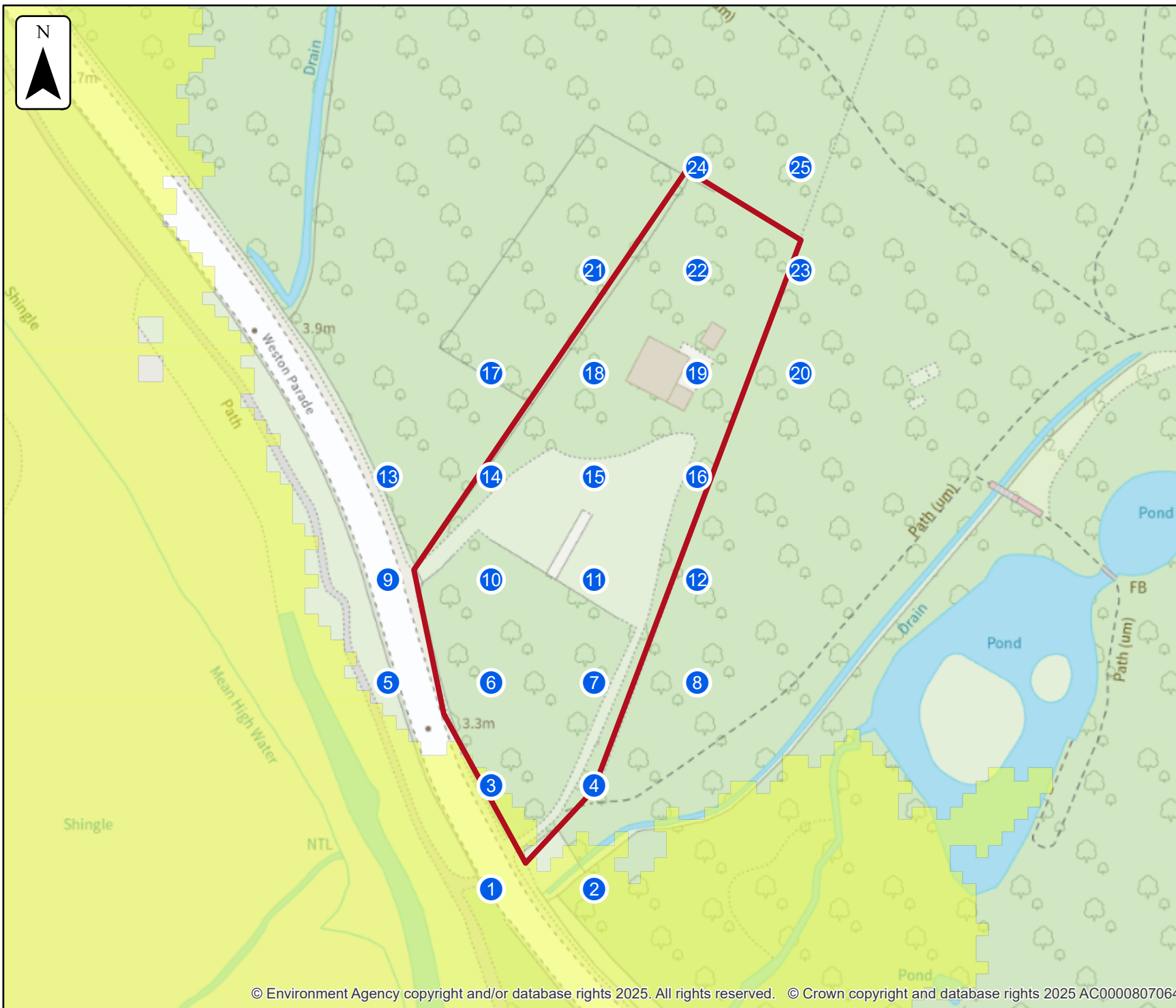
Scale Created
1:10,000 31 Oct 2025

Model name
**Southampton Water
Coastal Modelling**

-  Selected area
-  Main river
- Modelled flood extent
 -  0.5% AEP (+758mm)
 -  0.5% AEP (+1112mm)
 -  0.1% AEP (+758mm)
 -  0.1% AEP (+1112mm)

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





Defended modelled tidal extent and height

Location (easting/northing)
444748/109304

Scale Created
1:1,000 31 Oct 2025

Model name
**Southampton Water
Coastal Modelling**

Selected area
 Main river

Modelled 2D grid
Water level in mAOD

0 - 0.625
 0.625 - 1.25
 1.25 - 1.875
 1.875 - 2.5
 2.5 - 3.125
 3.125 - 3.75
 3.75 - 4.375
 4.375 - 5.0
 5.0 - 5.625

This map shows the
0.1% AEP height data

0 10 20 30 40
metres

Sample point data

Defended

Label	Easting	Northing	20% AEP	10% AEP	5% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height
1	444728	109230	NoData	NoData	2.93	2.96	3.05	3.07	3.13	3.25
2	444748	109230	2.80	2.87	2.93	2.97	3.05	3.08	3.13	3.26
3	444728	109250	NoData	NoData	NoData	NoData	NoData	NoData	NoData	3.25
4	444748	109250	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	444708	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	444728	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	444708	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	444728	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	20% AEP	10% AEP	5% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height
13	444708	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	20% AEP	10% AEP	5% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height
25	444788	109370	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData	NoData	3.25

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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

Defended

Label	Easting	Northing	20% AEP	10% AEP	5% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	444728	109230	NoData	NoData	0.10	0.13	0.21	0.24	0.30	0.42
2	444748	109230	0.05	0.07	0.12	0.15	0.23	0.26	0.32	0.44
3	444728	109250	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.03
4	444748	109250	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	444708	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	444728	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	444708	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	444728	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	20% AEP	10% AEP	5% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
13	444708	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	20% AEP	10% AEP	5% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
25	444788	109370	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.13

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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



Defences removed modelled tidal extent and height

Location (easting/northing)
444748/109304

Scale Created
1:1,000 31 Oct 2025

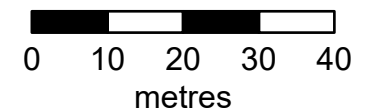
Model name
**Southampton Water
Coastal Modelling**

 Selected area
 Main river

Modelled 2D grid
Water level in mAOD

 0 - 0.625
 0.625 - 1.25
 1.25 - 1.875
 1.875 - 2.5
 2.5 - 3.125
 3.125 - 3.75
 3.75 - 4.375
 4.375 - 5.0
 5.0 - 5.625

This map shows the
0.1% AEP height data



Sample point data

Defences removed

Label	Easting	Northing	0.5% AEP	0.1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Depth	Depth
1	444728	109230	3.14	3.26	0.30	0.43
2	444748	109230	3.14	3.26	0.32	0.44
3	444728	109250	NoData	3.26	NoData	0.03
4	444748	109250	NoData	NoData	NoData	NoData
5	444708	109270	NoData	NoData	NoData	NoData
6	444728	109270	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData
9	444708	109290	NoData	NoData	NoData	NoData
10	444728	109290	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP	0.1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Depth	Depth
13	444708	109310	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData

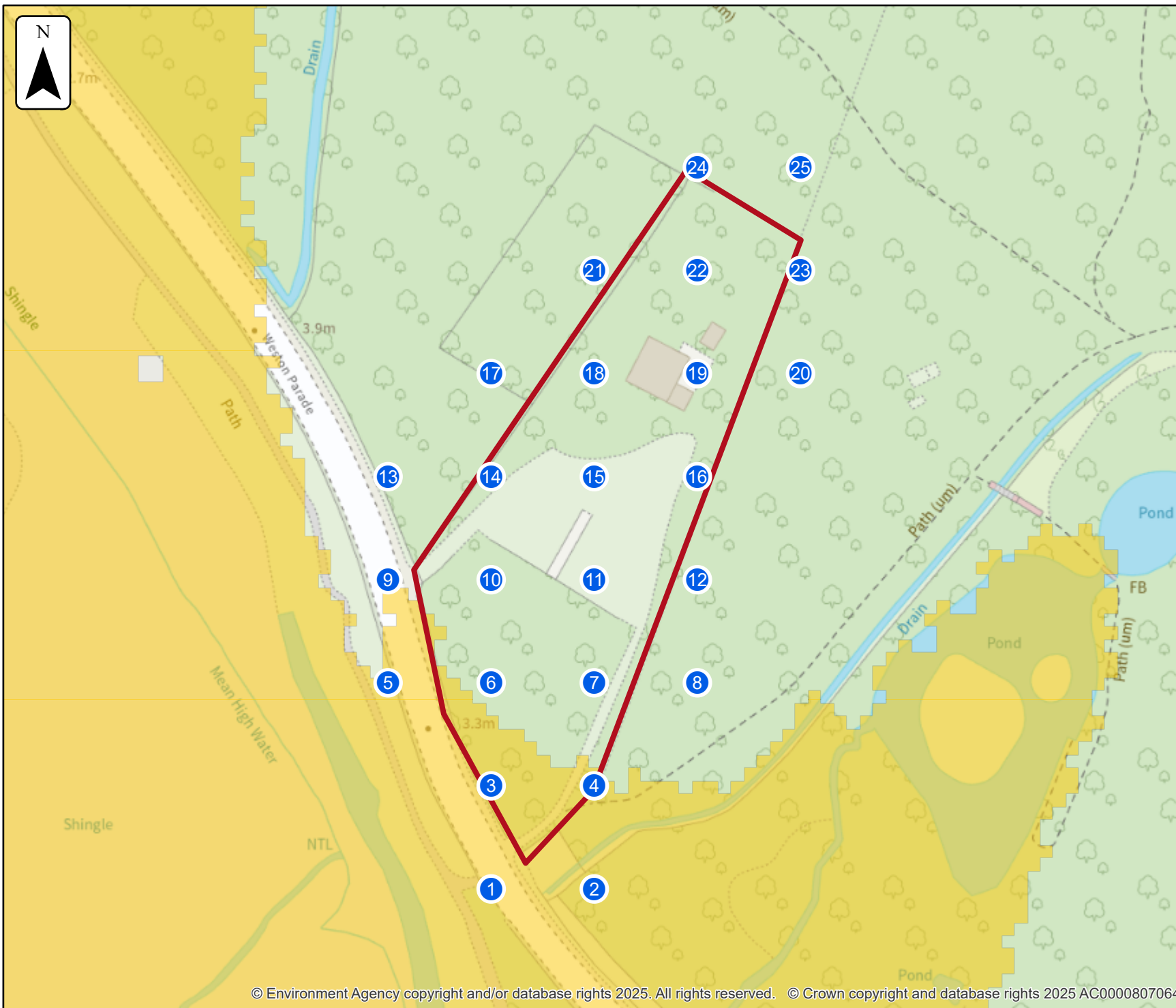
Label	Easting	Northing	0.5% AEP	0.1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Depth	Depth
25	444788	109370	NoData	NoData	NoData	NoData
Max value in selected area:			NoData	3.26	NoData	0.14

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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



Defended climate change modelled tidal extent and height

Location (easting/northing)
444748/109304

Scale Created
1:1,000 31 Oct 2025

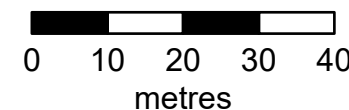
Model name
**Southampton Water
Coastal Modelling**

- Selected area
- Main river

Modelled 2D grid
Water level in mAOD

- 0 - 0.625
- 0.625 - 1.25
- 1.25 - 1.875
- 1.875 - 2.5
- 2.5 - 3.125
- 3.125 - 3.75
- 3.75 - 4.375
- 4.375 - 5.0
- 5.0 - 5.625

This map shows the
0.1% AEP +758mm height data



Sample point data

Defended climate change

Label	Easting	Northing	0.5% AEP (+413mm)	0.5% AEP (+758mm)	0.1% AEP (+413mm)	0.1% AEP (+758mm)
			Height	Height	Height	Height
1	444728	109230	3.52	3.88	3.65	4.01
2	444748	109230	3.53	3.88	3.66	4.01
3	444728	109250	3.53	3.88	3.65	4.01
4	444748	109250	NoData	3.88	NoData	4.01
5	444708	109270	NoData	NoData	NoData	4.01
6	444728	109270	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData
9	444708	109290	NoData	NoData	NoData	NoData
10	444728	109290	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+413mm)	0.5% AEP (+758mm)	0.1% AEP (+413mm)	0.1% AEP (+758mm)
			Height	Height	Height	Height
13	444708	109310	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+413mm)	0.5% AEP (+758mm)	0.1% AEP (+413mm)	0.1% AEP (+758mm)
			Height	Height	Height	Height
25	444788	109370	NoData	NoData	NoData	NoData
Max value in selected area:			3.53	3.88	3.66	4.01

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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

Defended climate change

Label	Easting	Northing	0.5% AEP (+413mm)	0.5% AEP (+758mm)	0.1% AEP (+413mm)	0.1% AEP (+758mm)
			Depth	Depth	Depth	Depth
1	444728	109230	0.69	1.05	0.82	1.18
2	444748	109230	0.71	1.06	0.84	1.19
3	444728	109250	0.16	0.51	0.29	0.65
4	444748	109250	NoData	0.10	NoData	0.20
5	444708	109270	NoData	NoData	NoData	0.09
6	444728	109270	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData
9	444708	109290	NoData	NoData	NoData	NoData
10	444728	109290	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+413mm)	0.5% AEP (+758mm)	0.1% AEP (+413mm)	0.1% AEP (+758mm)
			Depth	Depth	Depth	Depth
13	444708	109310	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+413mm)	0.5% AEP (+758mm)	0.1% AEP (+413mm)	0.1% AEP (+758mm)
			Depth	Depth	Depth	Depth
25	444788	109370	NoData	NoData	NoData	NoData
Max value in selected area:			0.40	0.75	0.52	0.88

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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



Defences removed climate change modelled tidal extent and height

Location (easting/northing)
444748/109304

Scale Created
1:1,000 31 Oct 2025

Model name
**Southampton Water
Coastal Modelling**

 Selected area

 Main river

Modelled 2D grid

Water level in mAOD

 0 - 0.75
 0.75 - 1.5
 1.5 - 2.25
 2.25 - 3.0
 3.0 - 3.75
 3.75 - 4.5
 4.5 - 5.25
 5.25 - 6.0
 6.0 - 6.75

This map shows the
0.1% AEP +1112mm height data


0 10 20 30 40
metres

Sample point data

Defences removed climate change

Label	Easting	Northing	0.5% AEP (+758mm)	0.5% AEP (+1112mm)	0.1% AEP (+758mm)	0.1% AEP (+1112mm)
			Height	Height	Height	Height
1	444728	109230	3.88	4.23	4.01	4.37
2	444748	109230	3.88	4.23	4.01	4.37
3	444728	109250	3.88	4.23	4.01	4.38
4	444748	109250	3.88	4.24	4.01	4.38
5	444708	109270	NoData	4.23	4.01	4.38
6	444728	109270	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData
9	444708	109290	NoData	4.24	NoData	4.38
10	444728	109290	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+758mm)	0.5% AEP (+1112mm)	0.1% AEP (+758mm)	0.1% AEP (+1112mm)
			Height	Height	Height	Height
13	444708	109310	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+758mm)	0.5% AEP (+1112mm)	0.1% AEP (+758mm)	0.1% AEP (+1112mm)
			Height	Height	Height	Height
25	444788	109370	NoData	NoData	NoData	NoData
Max value in selected area:			3.88	4.24	4.01	4.38

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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

Defences removed climate change

Label	Easting	Northing	0.5% AEP (+758mm)	0.5% AEP (+1112mm)	0.1% AEP (+758mm)	0.1% AEP (+1112mm)
			Depth	Depth	Depth	Depth
1	444728	109230	1.05	1.40	1.18	1.54
2	444748	109230	1.06	1.42	1.19	1.56
3	444728	109250	0.51	0.87	0.65	1.01
4	444748	109250	0.10	0.42	0.20	0.56
5	444708	109270	NoData	0.31	0.09	0.45
6	444728	109270	NoData	NoData	NoData	NoData
7	444748	109270	NoData	NoData	NoData	NoData
8	444768	109270	NoData	NoData	NoData	NoData
9	444708	109290	NoData	0.17	NoData	0.31
10	444728	109290	NoData	NoData	NoData	NoData
11	444748	109290	NoData	NoData	NoData	NoData
12	444768	109290	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+758mm)	0.5% AEP (+1112mm)	0.1% AEP (+758mm)	0.1% AEP (+1112mm)
			Depth	Depth	Depth	Depth
13	444708	109310	NoData	NoData	NoData	NoData
14	444728	109310	NoData	NoData	NoData	NoData
15	444748	109310	NoData	NoData	NoData	NoData
16	444768	109310	NoData	NoData	NoData	NoData
17	444728	109330	NoData	NoData	NoData	NoData
18	444748	109330	NoData	NoData	NoData	NoData
19	444768	109330	NoData	NoData	NoData	NoData
20	444788	109330	NoData	NoData	NoData	NoData
21	444748	109350	NoData	NoData	NoData	NoData
22	444768	109350	NoData	NoData	NoData	NoData
23	444788	109350	NoData	NoData	NoData	NoData
24	444768	109370	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP (+758mm)	0.5% AEP (+1112mm)	0.1% AEP (+758mm)	0.1% AEP (+1112mm)
			Depth	Depth	Depth	Depth
25	444788	109370	NoData	NoData	NoData	NoData
Max value in selected area:			0.75	1.10	0.88	1.25

Data in this table comes from the Southampton Water Coastal Modelling Study 2014 model. Height values are shown in mAOD, and depth values are shown in metres.

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

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

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

Strategic flood risk assessments

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

This should give you information about:

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

Your Lead Local Flood Authority is City of Southampton.

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