

Flood risk assessment data

Location of site: 398902 / 406323 (shown as easting and northing coordinates)

Document created on: 31 August 2023

This information was previously known as a product 4.

Customer reference number: UHXCPXCKH91A

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)
- historic flooding
- 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

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

About the models used

Model name: Tame at Uppermill Model 2019

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

Date: 12 November 2019

These models contain the most relevant data for your area of interest.

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occurring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 2.

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

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

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

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change

This data is updated on a quarterly basis as better data becomes available.







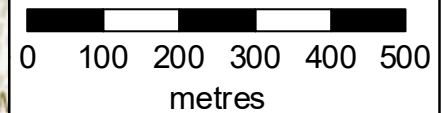
Flood map for planning

Location (easting/northing)
398902/406323

Scale
1:10,000

Created
31 Aug 2023

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



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:

- 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

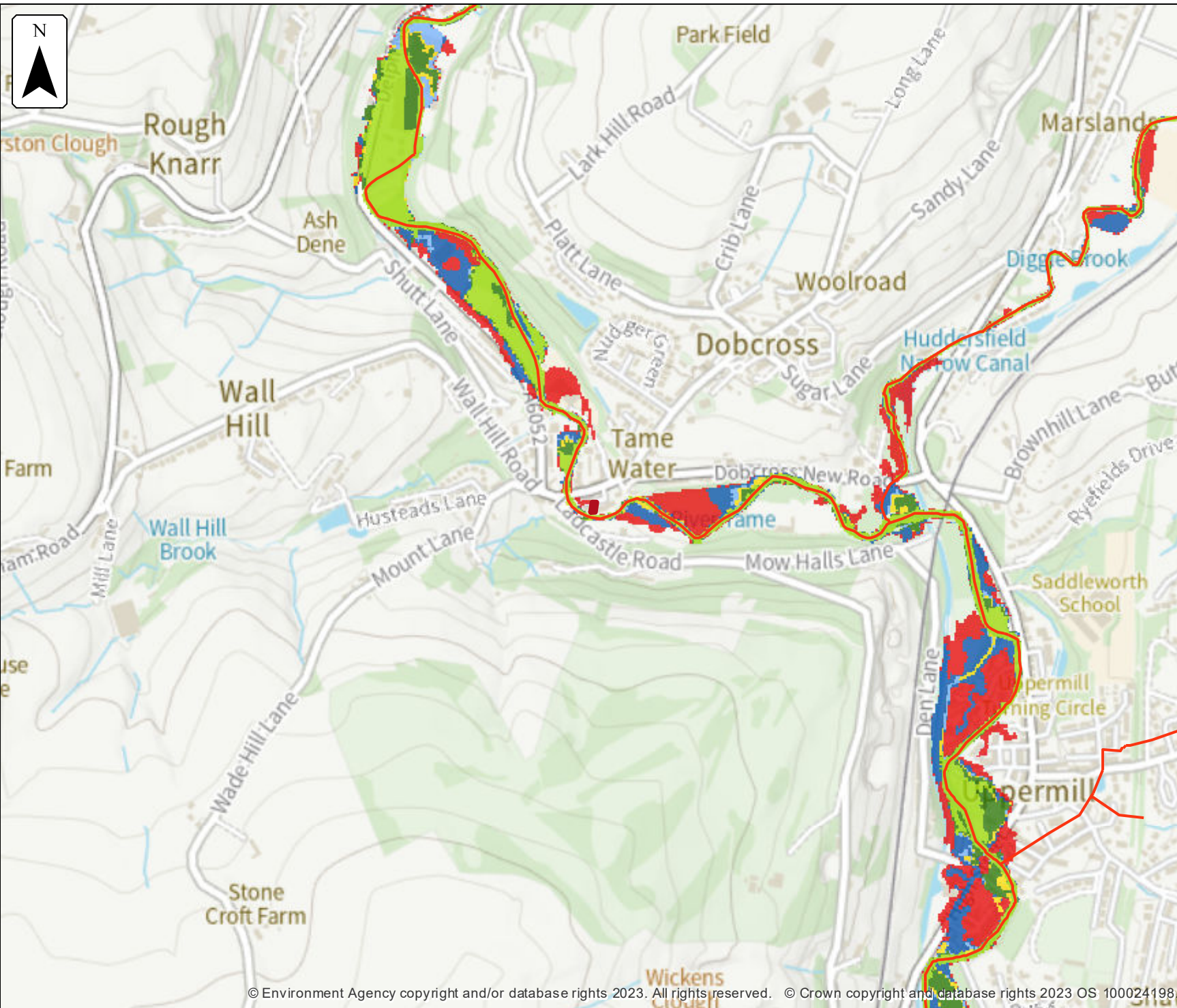
Location (easting/northing)
398902/406323

Scale Created
1:10,000 31 Aug 2023

Model name
**Tame at Uppermill
Model 2019**

-  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










No defences exist climate change modelled fluvial extent

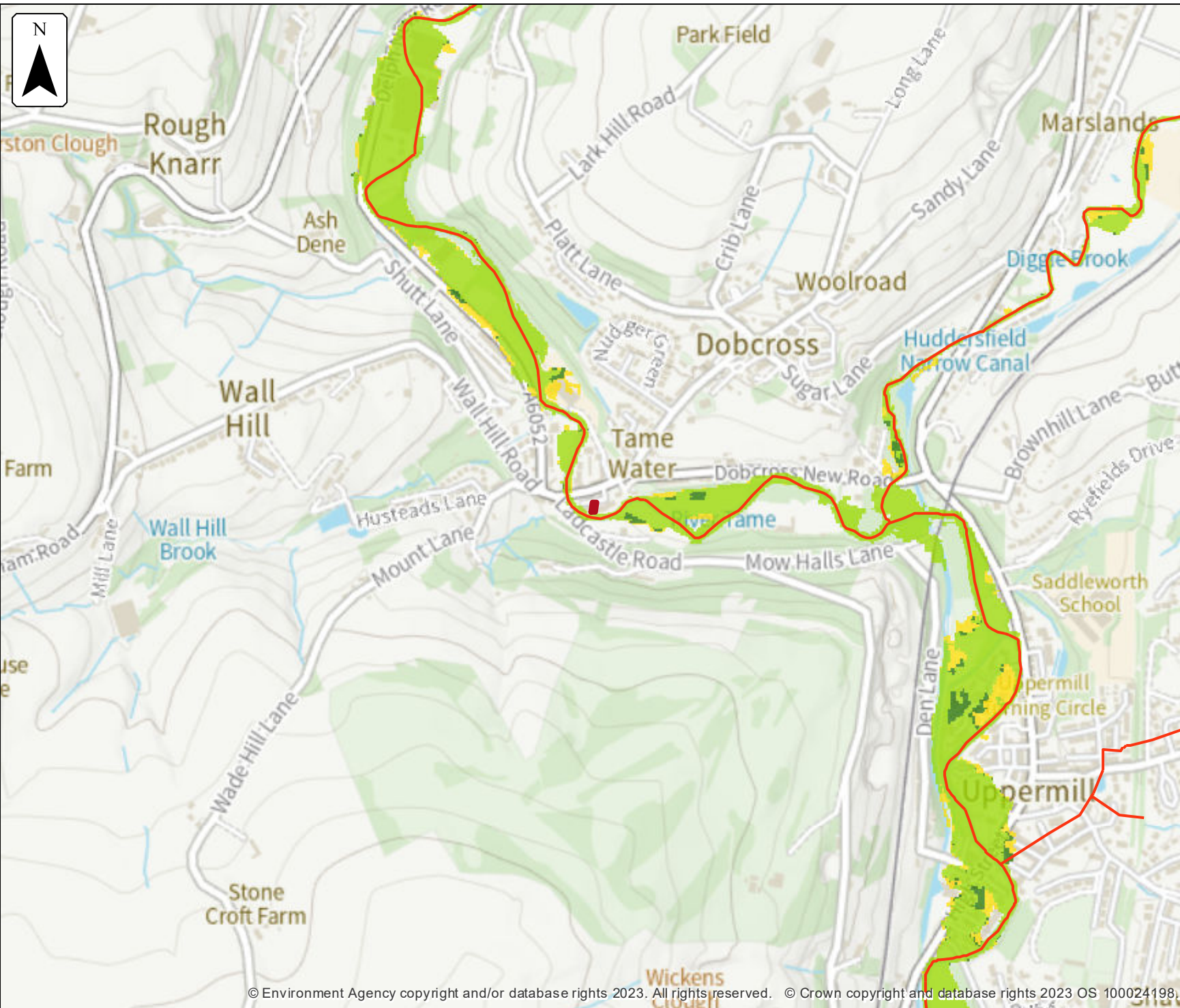
Location (easting/northing)
398902/406323

Scale Created
1:10,000 31 Aug 2023

Model name
**Tame at Uppermill
Model 2019**

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

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








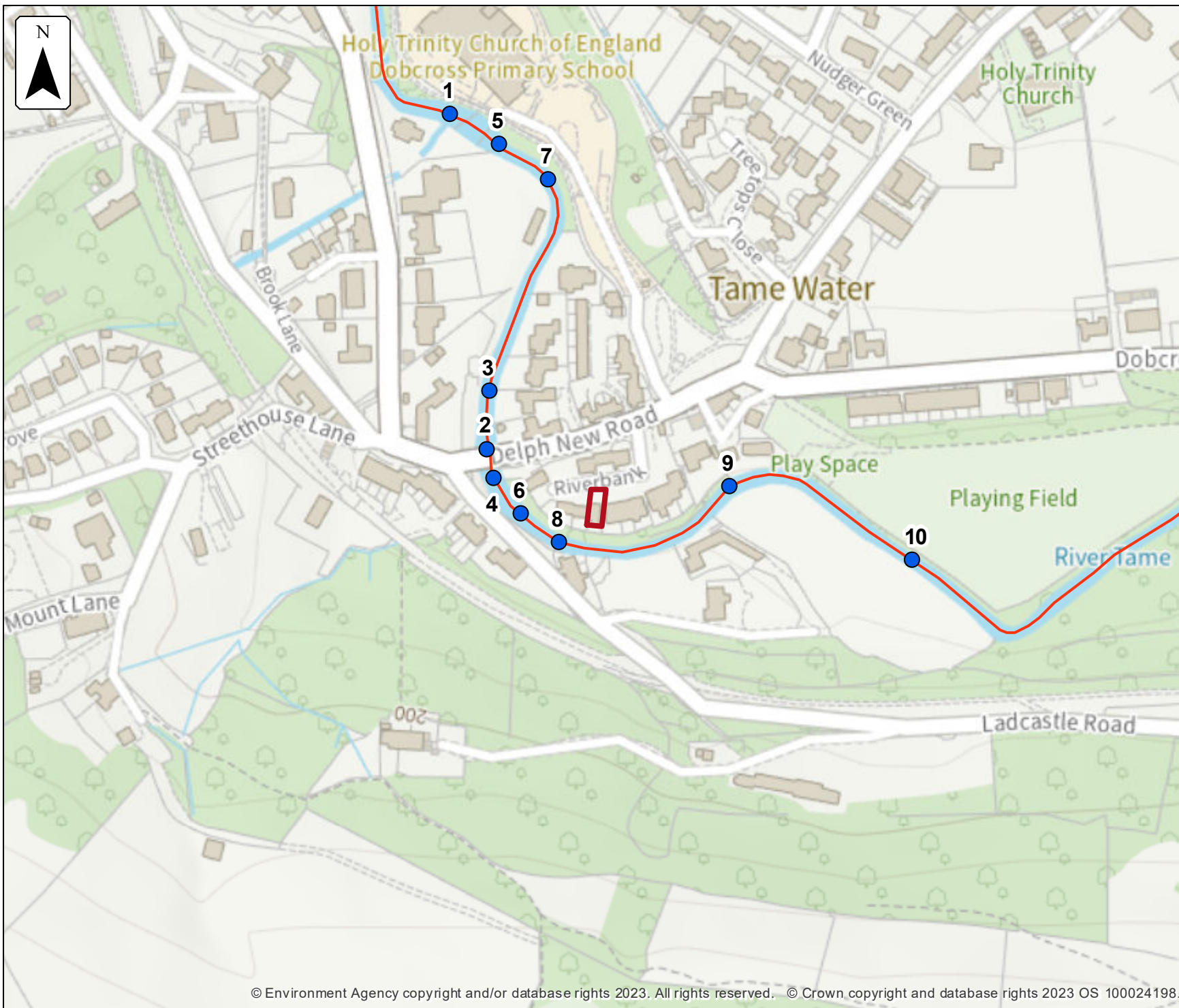
**No defences exist
modelled fluvial
node locations**

Location (easting/northing)
398902/406323

Scale Created
1:2,500 31 Aug 2023

Model name
**Tame at Uppermill
Model 2019**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

No defences exist

Label	Modelled location ID	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1275050	398831	406514	173.90	21.11	174.05	25.80	174.11	27.61	174.16	29.33	174.32	35.32	174.59	46.72
2	1275274	398849	406351	171.57	21.27	171.79	25.99	171.87	27.81	171.95	29.52	172.21	35.54	172.68	47.11
3	1275753	398850	406379	171.61	21.25	171.83	25.95	171.91	27.77	171.99	29.48	172.25	35.49	172.72	47.02
4	1275470	398852	406337	171.55	21.27	171.76	25.99	171.84	27.81	171.91	29.52	172.15	35.54	172.56	47.11
5	1275662	398855	406499	172.11	21.11	172.32	25.80	172.39	27.61	172.47	29.33	172.70	35.32	173.10	46.72
6	1275017	398866	406320	170.89	21.30	171.10	26.02	171.18	27.84	171.25	29.55	171.47	35.58	171.53	47.10
7	1274725	398879	406482	171.89	21.15	172.08	25.85	172.15	27.66	172.22	29.39	172.44	35.38	172.85	46.83
8	1275013	398884	406306	170.55	21.35	170.76	26.09	170.82	27.91	170.89	29.63	171.0	35.69	171.10	47.40
9	1275014	398967	406333	169.59	21.42	169.80	26.17	169.88	28.01	169.93	29.74	170.13	34.54	170.37	41.65
10	1275743	399056	406297	168.58	21.49	168.75	26.26	168.81	28.11	168.87	29.82	169.07	36.01	169.25	45.51

Data in this table comes from the Tame at Uppermill Model 2019 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.






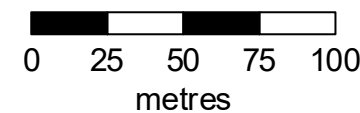
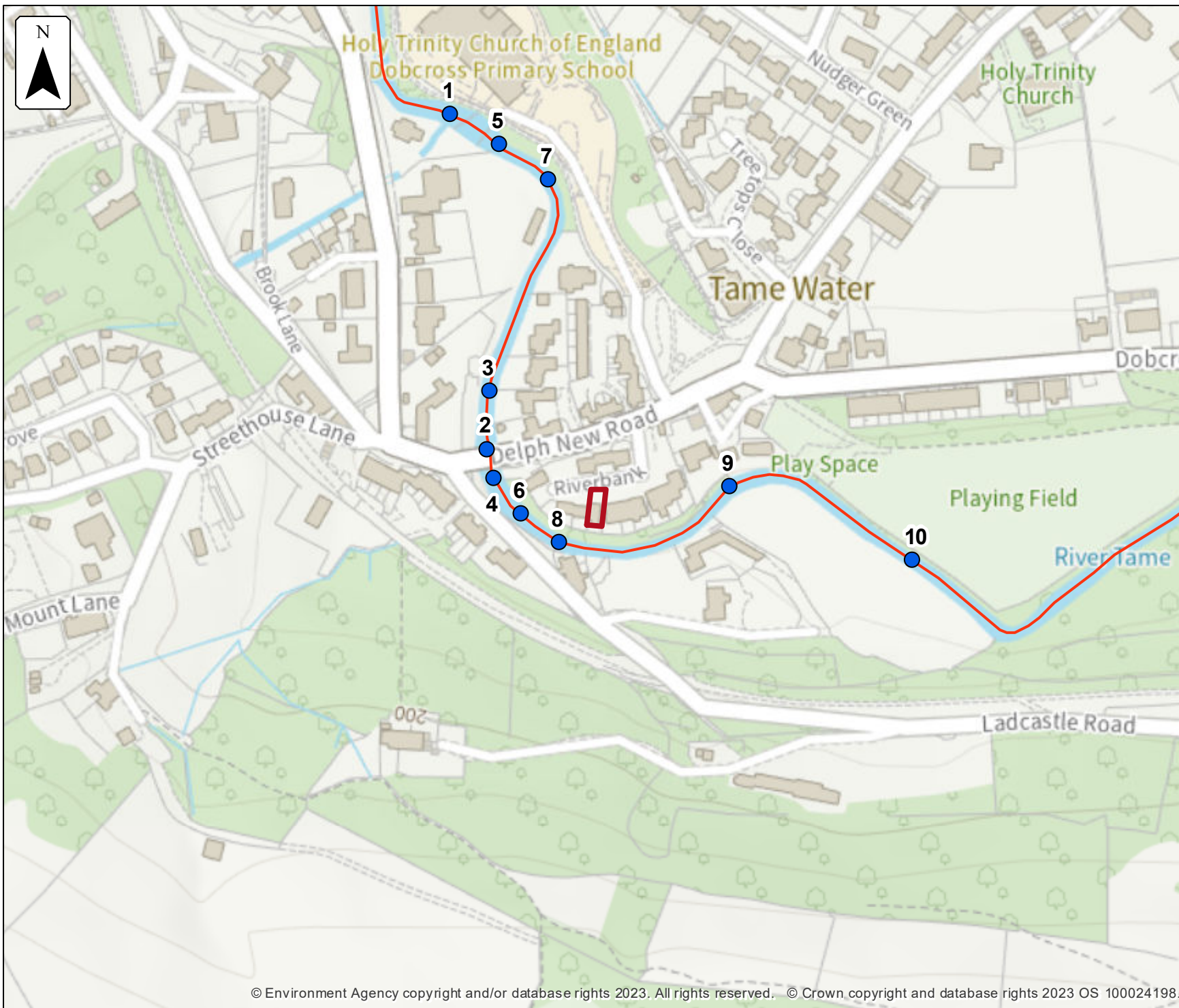
**No defences exist
climate change
modelled fluvial
node locations**

Location (easting/northing)
398902/406323

Scale Created
1:2,500 31 Aug 2023

Model name
**Tame at Uppermill
Model 2019**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

No defences exist climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)		1.0% AEP (+35%)		1.0% AEP (+70%)	
				Level	Flow	Level	Flow	Level	Flow
1	1275050	398831	406514	174.40	38.53	174.43	39.67	174.56	45.22
2	1275274	398849	406351	172.35	38.77	172.40	39.91	172.62	45.53
3	1275753	398850	406379	172.38	38.71	172.43	39.85	172.66	45.45
4	1275470	398852	406337	172.27	38.77	172.31	39.91	172.51	45.53
5	1275662	398855	406499	172.81	38.53	172.86	39.67	173.05	45.22
6	1275017	398866	406320	171.52	38.81	171.53	39.95	171.53	45.58
7	1274725	398879	406482	172.55	38.59	172.60	39.75	172.80	45.32
8	1275013	398884	406306	171.01	38.88	171.01	40.14	171.08	46.05
9	1275014	398967	406333	170.22	36.36	170.24	37.26	170.34	40.92
10	1275743	399056	406297	169.14	39.0	169.15	40.30	169.25	44.35

Data in this table comes from the Tame at Uppermill Model 2019 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

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