

Flood risk assessment data

Location of site: 384595 / 390444 (shown as easting and northing coordinates)

Document created on: 8 July 2024

This information was previously known as a product 4.

Customer reference number: ECVN4FPAEGDC

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)
- 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

Information that's unavailable

This document **does not** contain:

- historic flooding

We do not have historic 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.

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: Upper Mersey 2017

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

Date: 14 April 2022

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

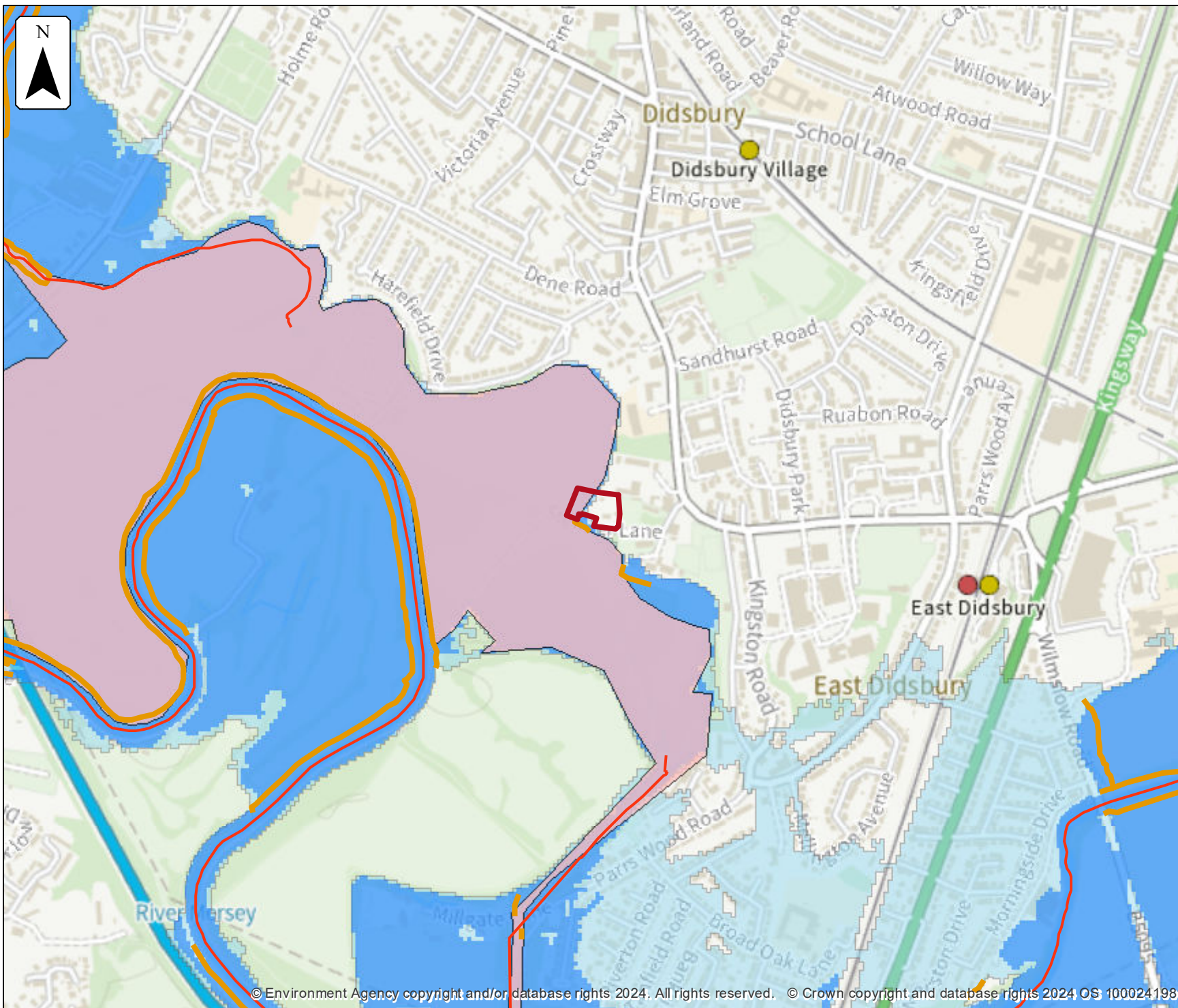
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- 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.



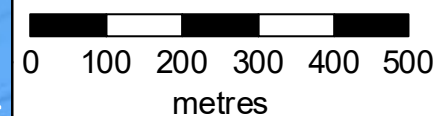
Flood map for planning

Location (easting/northing)
384595/390444

Scale
1:10,000

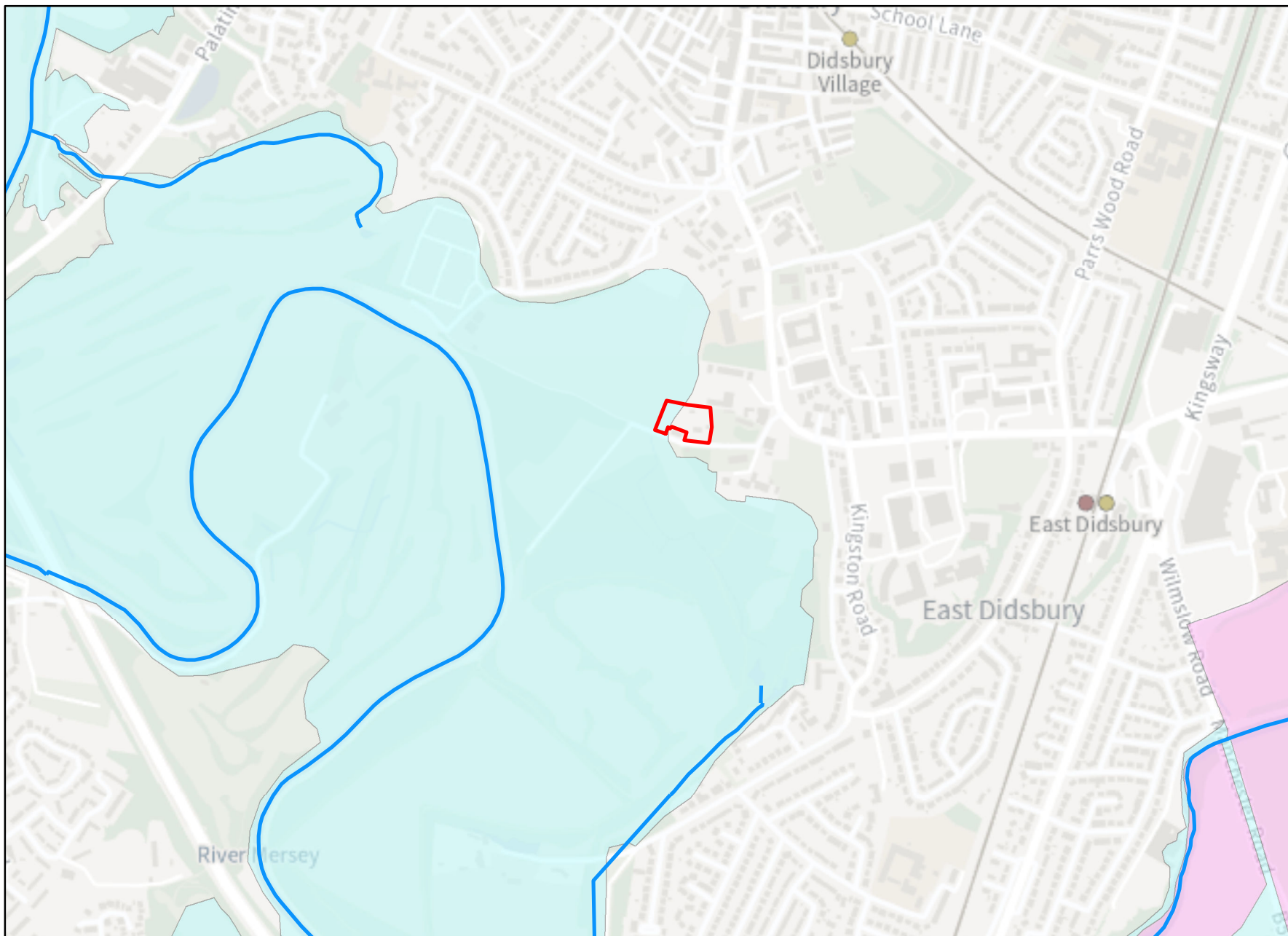
Created
8 Jul 2024

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



Recorded Flood Outline Map Centred on Stenner Lane, Manchester, M20 2RQ.

Created 09/07/2024 [GMMC367319LB]



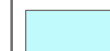
1:10,001



Legend

-  Site Location
-  Main River

Start Date

-  20/01/2021
-  01/01/1964

Recorded Flood Outlines

Flood Event Code	Name	Start Date	End Date	Source of Flooding	Cause of Flooding
87092	Didsbury	20/01/2021	20/01/2021	Main River	Other
18124	MERS	01/01/1964	02/01/1964	Unknown	Unknown

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

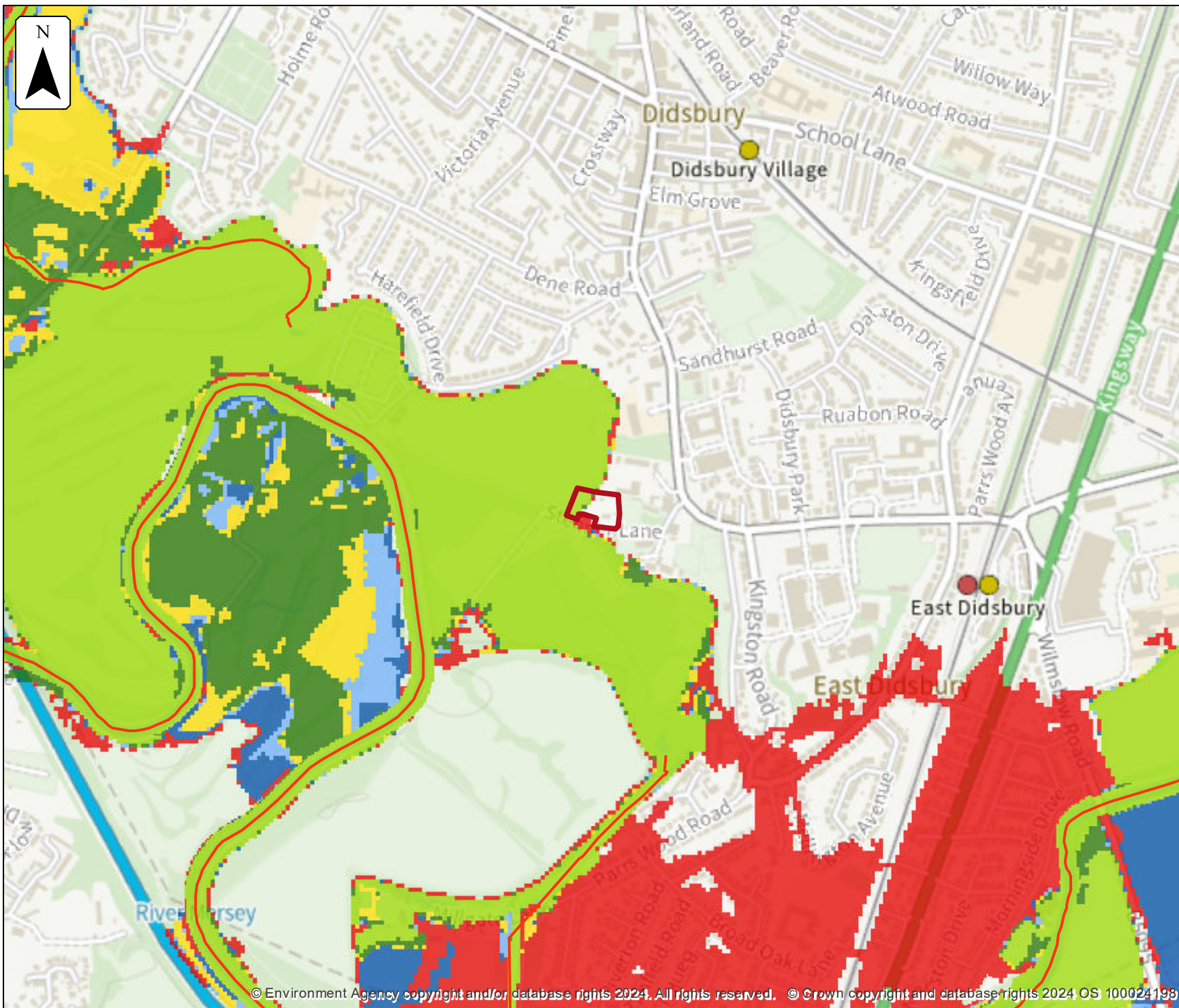
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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)
384595/390444

Scale Created
1:10,000 8 Jul 2024

Model name
Upper Mersey 2017

 Selected area

 Main river

Modelled flood extent

 5% AEP

 2% AEP

 1.33% AEP

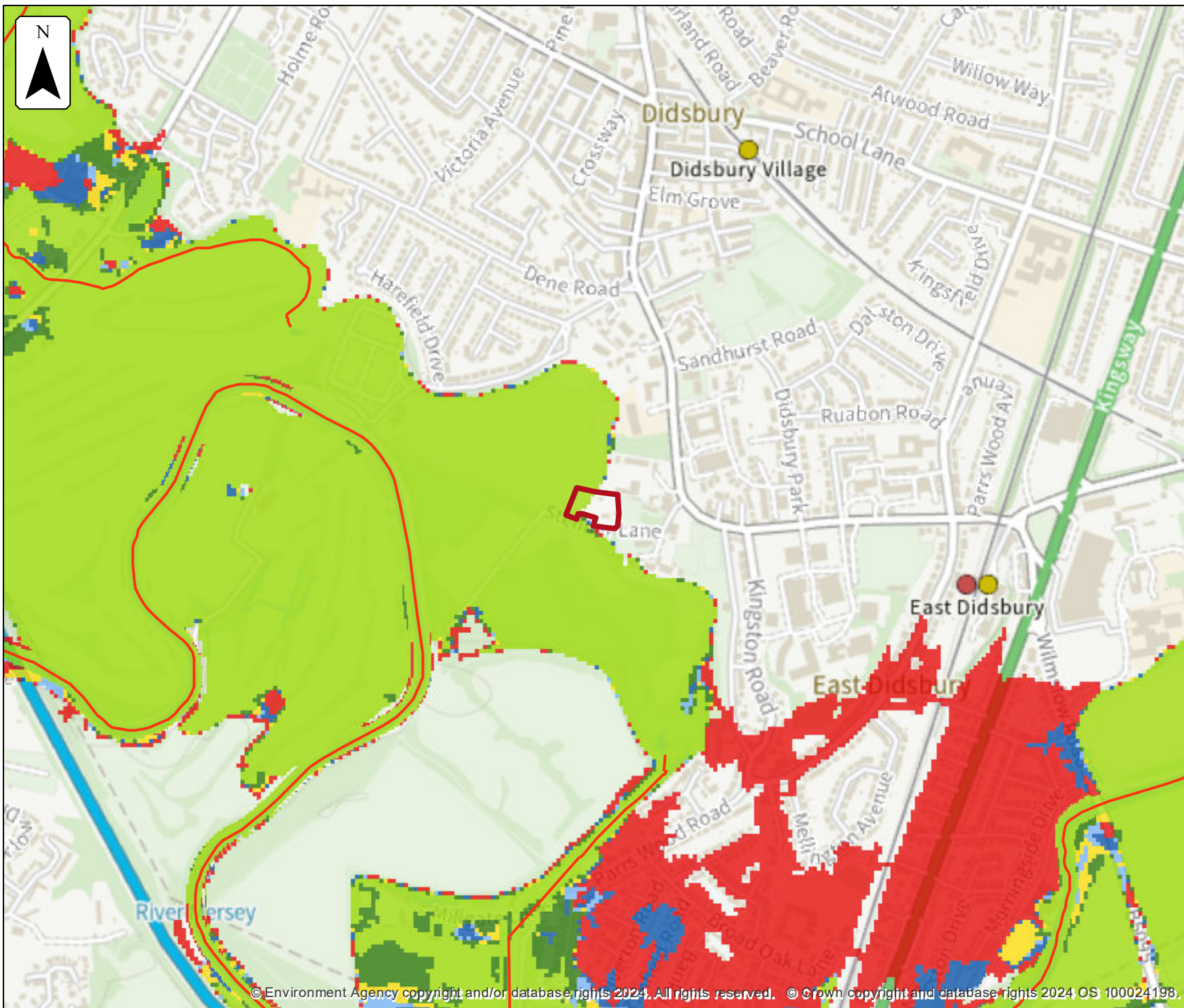
 1% AEP

 0.5% AEP

 0.1% AEP

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


0 100 200 300 400 500
metres



Defences removed modelled fluvial extent

Location (easting/northing)
384595/390444

Scale Created
1:10,000 8 Jul 2024

Model name
Upper Mersey 2017

Selected area

Main river

Modelled flood extent

5% AEP

2% AEP

1.33% AEP

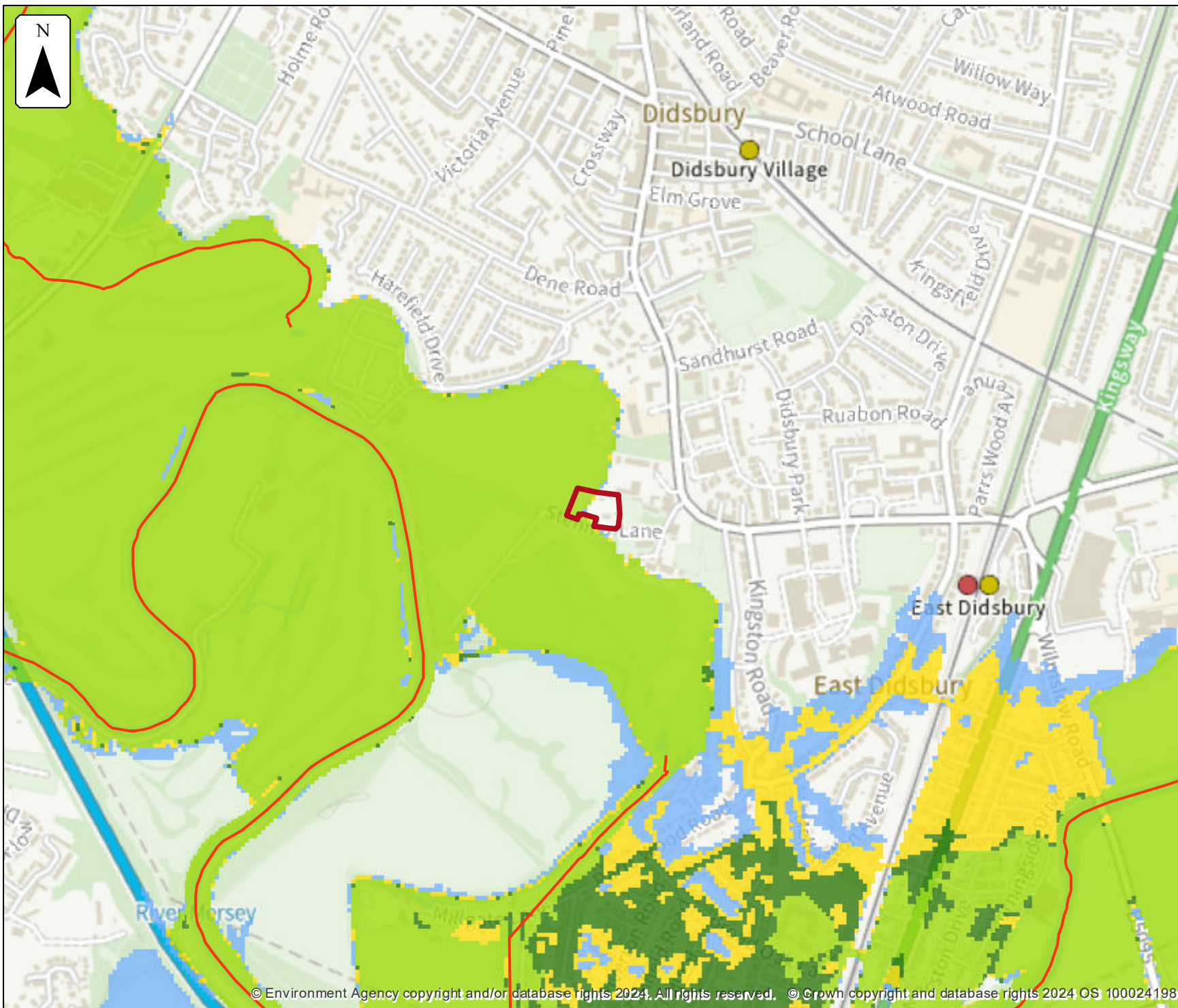
1% AEP

0.5% AEP

0.1% AEP

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

0 100 200 300 400 500
metres



Defended climate change modelled fluvial extent

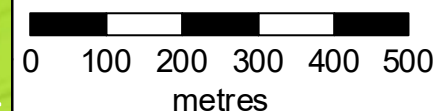
Location (easting/northing)
384595/390444

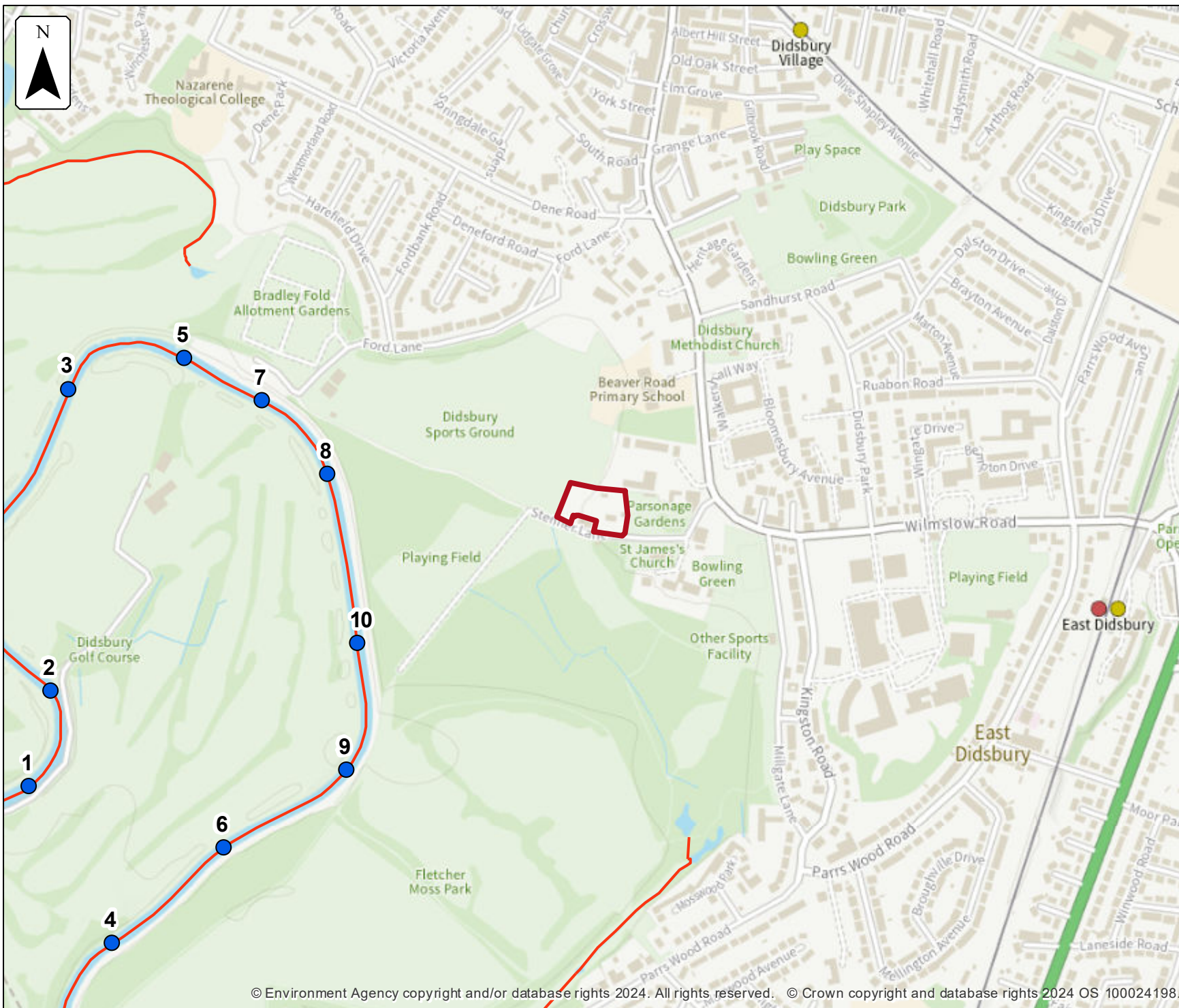
Scale Created
1:10,000 8 Jul 2024

Model name
Upper Mersey 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





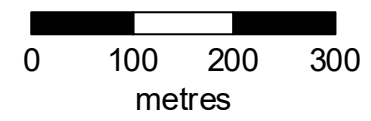
**Defended modelled
fluvial
node locations**

Location (easting/northing)
384595/390444

Scale Created
1:7,500 8 Jul 2024

Model name
Upper Mersey 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

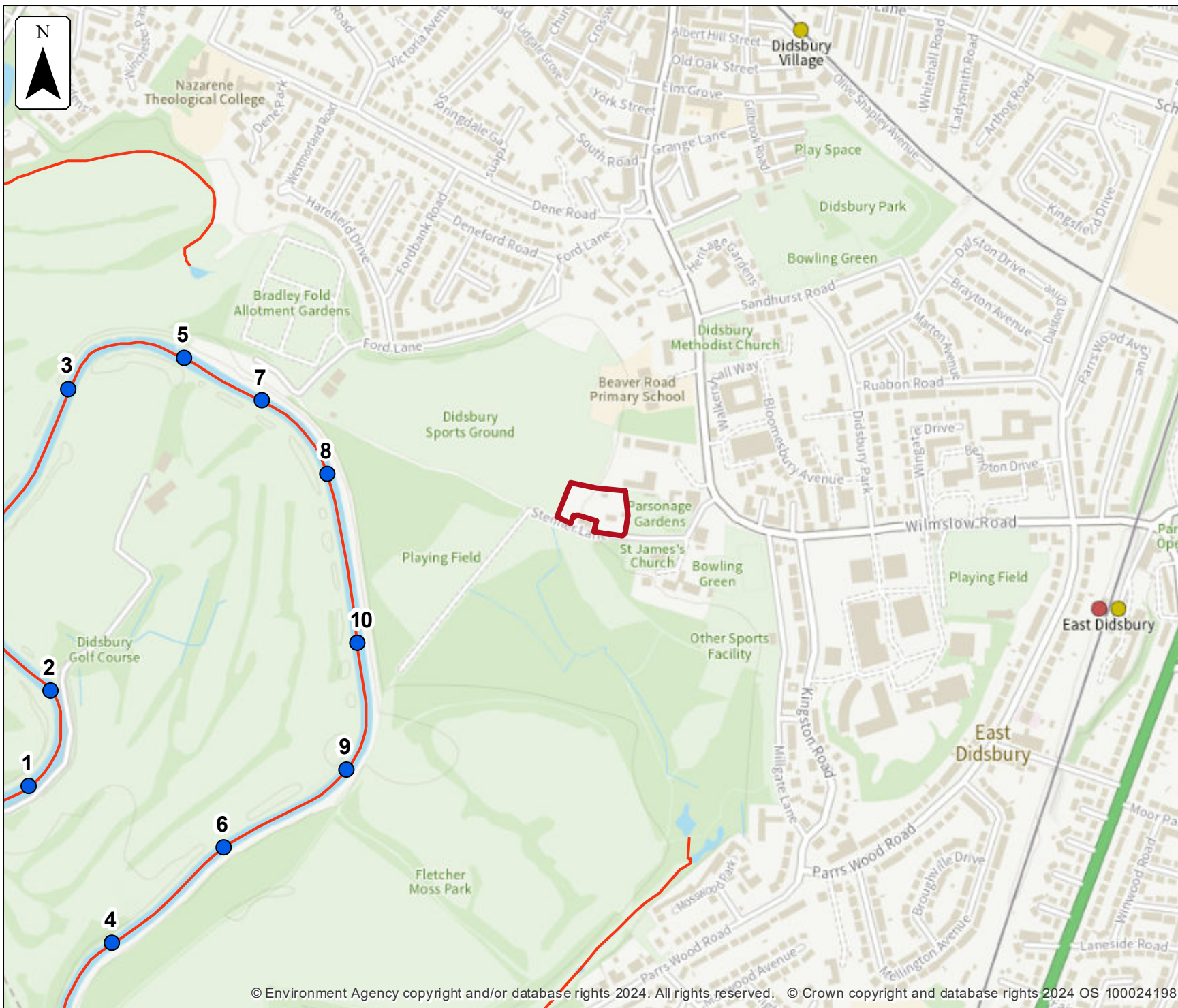
Defended

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	1290620	383769	390038	29.85	281.27	30.01	301.41	30.04	305.11	30.08	307.31	30.15	313.01	30.30	352.65
2	1290669	383802	390178	30.02	281.41	30.18	303.71	30.21	308.47	30.23	312.20	30.29	319.87	30.51	348.61
3	1290537	383828	390617	30.37	281.68	30.54	305.48	30.56	311.62	30.58	316.78	30.62	332.12	30.77	371.18
4	1290763	383891	389810	31.50	280.10	31.73	327.31	31.79	343.26	31.83	354.46	31.93	400.09	32.24	532.42
5	1290536	383996	390662	30.57	281.07	30.74	305.52	30.78	312.54	30.79	316.75	30.85	333.67	30.97	384.52
6	1290816	384054	389950	31.28	278.91	31.48	324.99	31.53	340.32	31.55	352.46	31.63	392.29	31.81	518.04
7	1290553	384110	390599	30.69	281.94	30.85	308.98	30.87	316.50	30.89	322.91	30.94	342.37	31.03	407.30
8	1290680	384204	390493	30.79	282.96	30.93	319.17	30.95	330.08	30.97	336.74	31.01	362.39	31.08	440.86
9	1290541	384232	390062	31.12	284.52	31.28	333.85	31.31	348.91	31.33	358.54	31.40	393.69	31.54	499.52
10	1290720	384247	390248	30.99	285.42	31.12	332.45	31.14	346.26	31.16	356.22	31.20	389.22	31.28	487.11

Data in this table comes from the Upper Mersey 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.



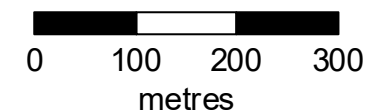
Defences removed modelled fluvial node locations

Location (easting/northing)
384595/390444

Scale Created
1:7,500 8 Jul 2024

Model name
Upper Mersey 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

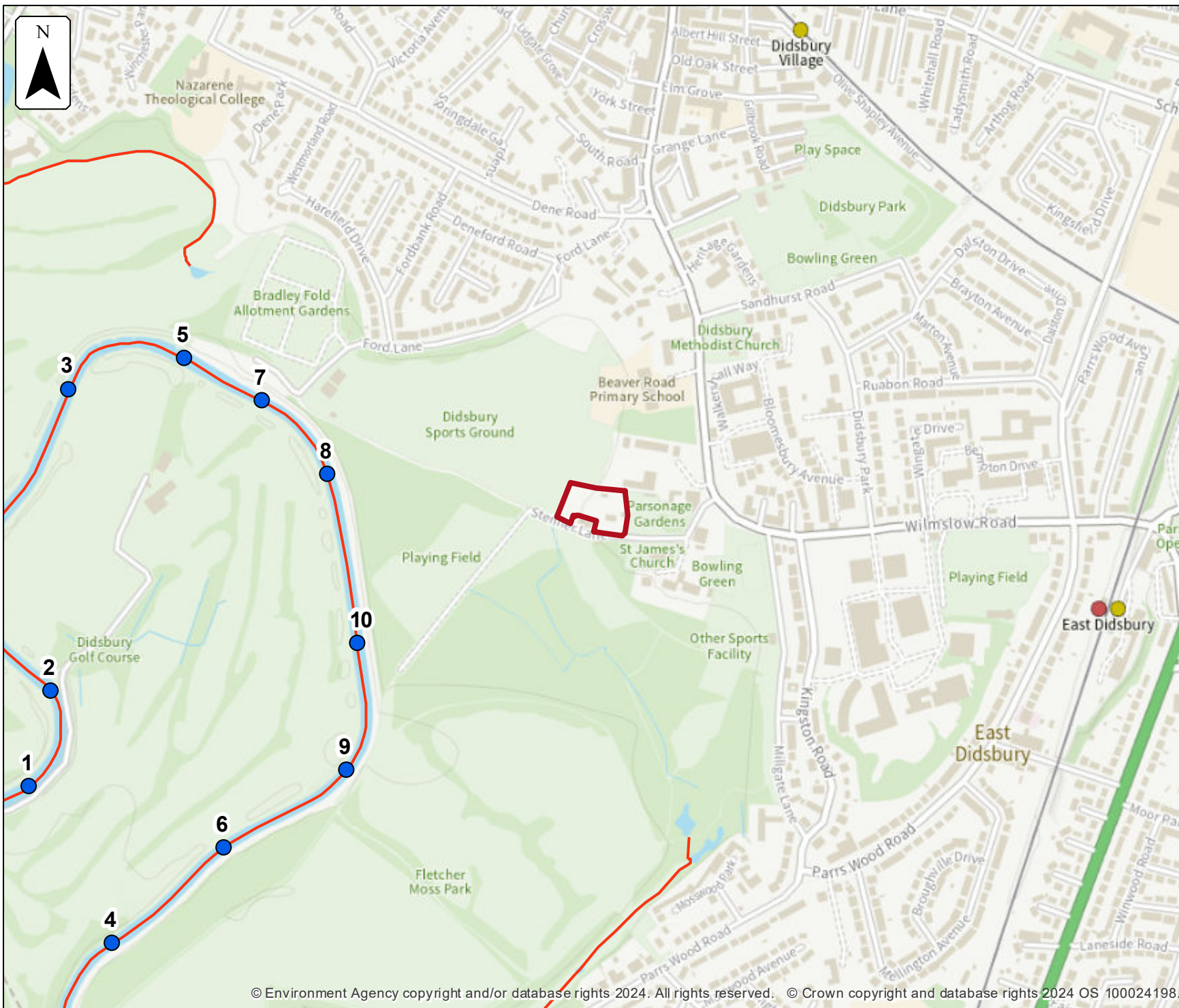
Defences removed

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	1290620	383769	390038	29.32	102.97	29.50	103.38	29.56	103.59	29.61	103.71	29.72	103.97	30.12	104.97
2	1290669	383802	390178	29.29	103.15	29.46	103.58	29.52	103.77	29.56	103.89	29.67	104.18	30.14	105.22
3	1290537	383828	390617	29.39	114.68	29.57	115.31	29.62	115.64	29.66	115.88	29.76	116.29	30.15	184.74
4	1290763	383891	389810	29.87	273.83	29.94	300.45	29.98	313.14	30.0	322.99	30.07	348.86	30.37	478.87
5	1290536	383996	390662	29.42	120.44	29.59	122.90	29.65	123.89	29.69	124.63	29.79	126.30	30.15	186.37
6	1290816	384054	389950	29.65	230.95	29.72	252.90	29.75	262.99	29.78	270.73	29.86	291.72	30.20	397.37
7	1290553	384110	390599	29.43	131.85	29.60	134.29	29.66	135.38	29.70	136.09	29.80	137.91	30.16	193.49
8	1290680	384204	390493	29.45	124.21	29.61	127.98	29.67	131.91	29.71	135.89	29.81	147.28	30.17	214.50
9	1290541	384232	390062	29.53	195.16	29.65	206.72	29.70	213.48	29.73	219.20	29.83	234.83	30.19	322.43
10	1290720	384247	390248	29.45	176.88	29.62	181.19	29.67	182.77	29.71	183.60	29.81	194.23	30.18	269.70

Data in this table comes from the Upper Mersey 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.



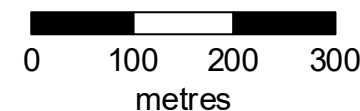
Defended climate change modelled fluvial node locations

Location (easting/northing)
384595/390444

Scale Created
1:7,500 8 Jul 2024

Model name
Upper Mersey 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

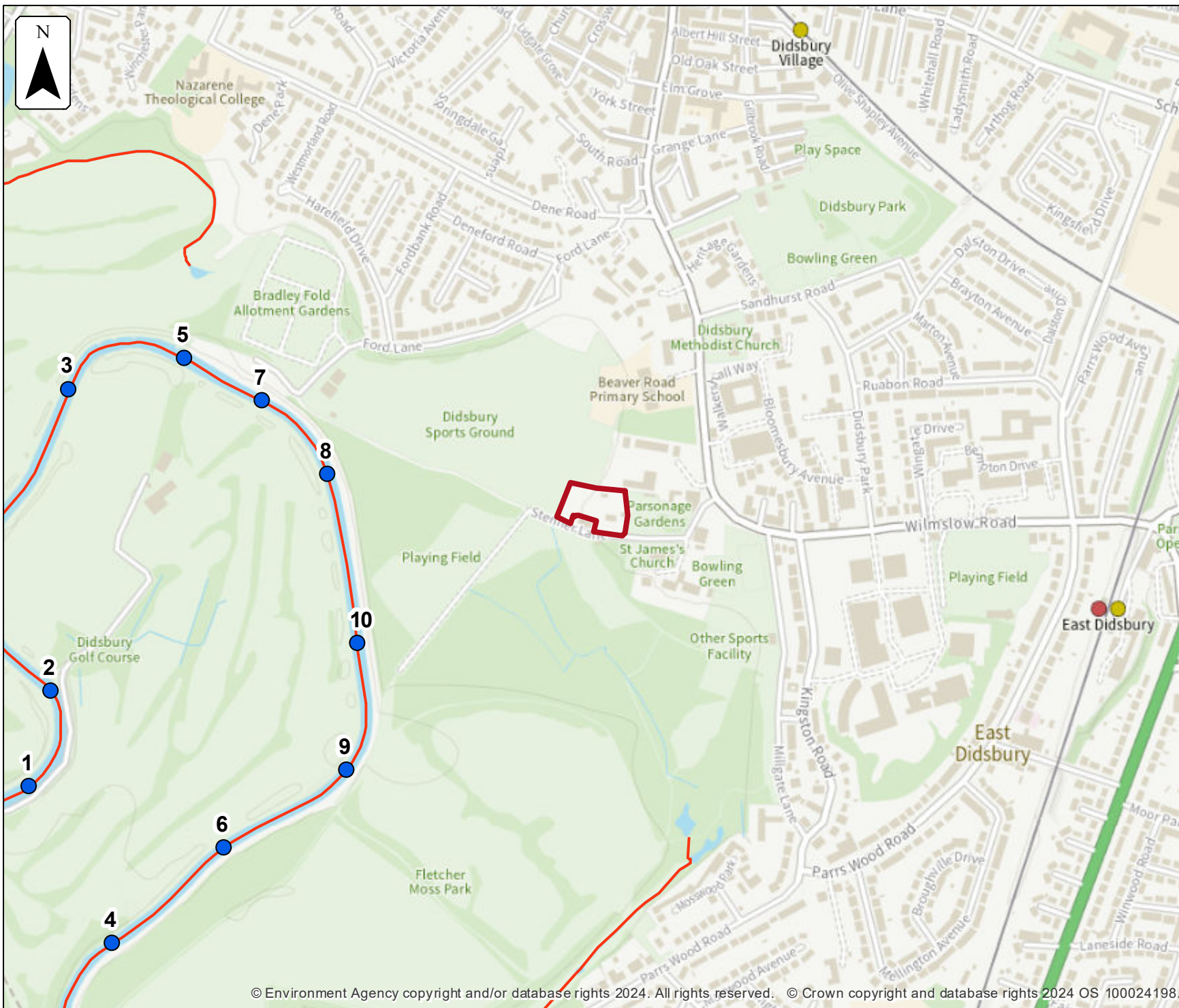
Defended climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)		1.0% AEP (+35%)		1.0% AEP (+70%)		0.1% AEP (+30%)	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1290620	383769	390038	30.27	332.26	30.28	335.49	30.29	349.77	30.61	361.59
2	1290669	383802	390178	30.45	333.63	30.46	335.84	30.51	344.78	30.78	366.23
3	1290537	383828	390617	30.72	352.27	30.72	356.40	30.75	367.65	31.06	382.03
4	1290763	383891	389810	32.09	456.57	32.12	469.36	32.21	520.02	32.42	605.08
5	1290536	383996	390662	30.92	356.48	30.93	361.14	30.97	380.05	31.15	422.54
6	1290816	384054	389950	31.73	447.90	31.74	460.08	31.80	506.68	31.90	592.31
7	1290553	384110	390599	31.0	369.66	31.0	375.86	31.03	399.78	31.23	438.72
8	1290680	384204	390493	31.04	397.43	31.05	405.27	31.07	433.75	31.30	472.46
9	1290541	384232	390062	31.47	441.21	31.48	452.0	31.53	490.21	31.67	553.50
10	1290720	384247	390248	31.24	433.90	31.25	443.39	31.27	478.40	31.41	536.98

Data in this table comes from the Upper Mersey 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.



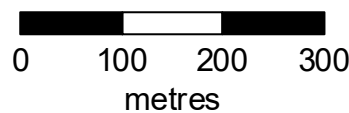
**Defences removed
climate change
modelled fluvial
node locations**

Location (easting/northing)
384595/390444

Scale Created
1:7,500 8 Jul 2024

Model name
Upper Mersey 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)		1.0% AEP (+35%)		1.0% AEP (+70%)		0.1% AEP (+30%)	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1290620	383769	390038	29.87	104.21	29.91	104.24	30.08	104.72	30.44	168.43
2	1290669	383802	390178	29.84	104.45	29.88	104.48	30.10	104.86	30.43	194.96
3	1290537	383828	390617	29.89	119.64	29.93	122.19	30.10	175.63	30.48	235.30
4	1290763	383891	389810	30.17	387.78	30.19	399.01	30.34	465.04	31.21	578.51
5	1290536	383996	390662	29.91	132.12	29.94	137.26	30.12	176.57	30.42	293.71
6	1290816	384054	389950	29.98	322.65	30.01	331.72	30.17	385.30	30.81	519.01
7	1290553	384110	390599	29.92	149.38	29.96	154.15	30.12	186.21	30.55	300.08
8	1290680	384204	390493	29.94	166.38	29.97	171.88	30.13	206.45	30.61	320.90
9	1290541	384232	390062	29.95	260.48	29.98	268.01	30.15	312.02	30.69	444.24
10	1290720	384247	390248	29.94	215.97	29.97	222.39	30.15	260.48	30.70	376.87

Data in this table comes from the Upper Mersey 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.



Defended modelled fluvial extent and height

Location (easting/northing)
384595/390444

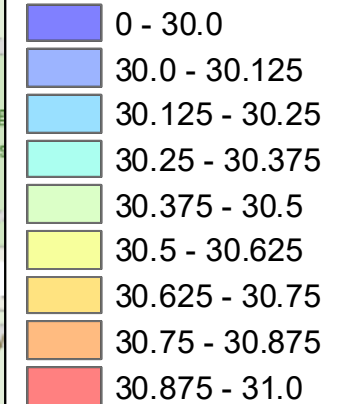
Scale Created
1:1,000 8 Jul 2024

Model name
Upper Mersey 2017

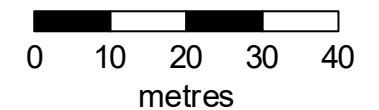
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP height data



Sample point data

Defended

Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	384593	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.58	30.36
2	384613	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384633	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	384533	390420	1.37	28.97	1.78	29.38	1.92	29.52	2.00	29.60	2.06	29.66	2.75	30.35
5	384553	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.76	30.35
6	384573	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	1.00	30.35
7	384593	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	384613	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	384633	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	384653	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	384533	390440	1.20	28.97	1.60	29.38	1.75	29.52	1.82	29.60	1.89	29.66	2.58	30.35
12	384553	390440	1.17	28.97	1.58	29.38	1.72	29.52	1.79	29.60	1.86	29.66	2.55	30.35
13	384573	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	384593	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	384613	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	384633	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	384653	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	384553	390460	1.59	28.97	1.99	29.38	2.13	29.52	2.21	29.60	2.28	29.66	2.97	30.35
19	384573	390460	1.31	28.97	1.72	29.38	1.86	29.52	1.94	29.60	2	29.66	2.69	30.35
20	384593	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	384613	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384633	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	384653	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	384553	390480	1.46	28.97	1.87	29.38	2.01	29.52	2.09	29.60	2.15	29.66	2.84	30.35
25	384573	390480	1.77	28.97	2.17	29.38	2.31	29.52	2.39	29.60	2.45	29.66	3.15	30.35
26	384593	390480	NoData	NoData	1.02	29.38	1.17	29.52	1.24	29.60	1.31	29.66	2.00	30.35
27	384613	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	384633	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Data in this table comes from the Upper Mersey 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.



Defences removed modelled fluvial extent and height

Location (easting/northing)
384595/390444

Scale Created
1:1,000 8 Jul 2024

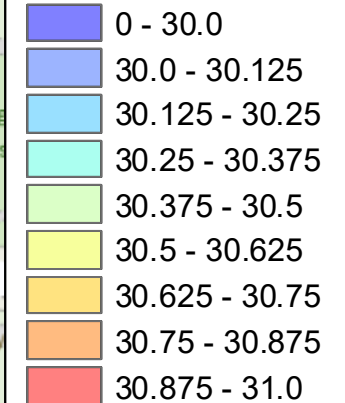
Model name
Upper Mersey 2017

 Selected area

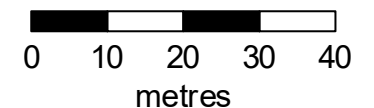
 Main river

Modelled 2D grid

Water level in mAOD



This map shows the
0.1% AEP height data



Sample point data

Defences removed

Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	384593	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.41	30.18
2	384613	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384633	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	384533	390420	1.85	29.45	2.01	29.61	2.07	29.67	2.11	29.71	2.21	29.81	2.58	30.18
5	384553	390420	1.42	29.45	1.59	29.61	1.65	29.67	1.69	29.71	1.78	29.81	2.16	30.18
6	384573	390420	0.15	29.45	0.28	29.61	0.32	29.67	0.36	29.71	0.46	29.81	0.83	30.18
7	384593	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	384613	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	384633	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	384653	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	384533	390440	1.67	29.45	1.84	29.61	1.90	29.67	1.94	29.71	2.04	29.81	2.41	30.18
12	384553	390440	1.65	29.45	1.81	29.61	1.87	29.67	1.91	29.71	2.01	29.81	2.38	30.18
13	384573	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	384593	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	384613	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	384633	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	384653	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	384553	390460	2.06	29.45	2.23	29.61	2.29	29.67	2.33	29.71	2.42	29.81	2.80	30.18
19	384573	390460	1.78	29.45	1.95	29.61	2.01	29.67	2.05	29.71	2.15	29.81	2.52	30.18
20	384593	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	384613	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384633	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	384653	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	384553	390480	1.93	29.45	2.10	29.61	2.16	29.67	2.20	29.71	2.30	29.81	2.67	30.18
25	384573	390480	2.24	29.45	2.41	29.61	2.46	29.67	2.51	29.71	2.60	29.81	2.98	30.18
26	384593	390480	1.09	29.45	1.26	29.61	1.32	29.67	1.36	29.71	1.46	29.81	1.83	30.18
27	384613	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	384633	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Data in this table comes from the Upper Mersey 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.



Defended climate change modelled fluvial extent and height

Location (easting/northing)
384595/390444

Scale Created
1:1,000 8 Jul 2024

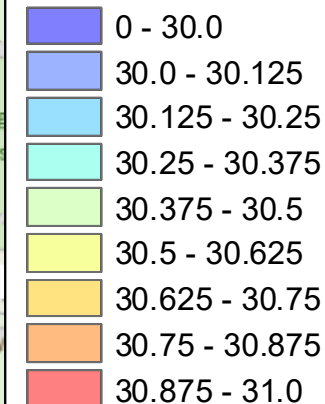
Model name
Upper Mersey 2017

 Selected area

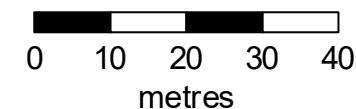
 Main river

Modelled 2D grid

Water level in mAOD



This map shows the
0.1% AEP +30% height data



Sample point data

Defended climate change

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	384593	390400	NoData	NoData	NoData	NoData	0.52	30.29	1.16	30.93
2	384613	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384633	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	384533	390420	2.34	29.94	2.41	30.01	2.68	30.29	3.33	30.93
5	384553	390420	0.35	29.94	0.42	30.01	0.70	30.29	1.34	30.93
6	384573	390420	0.58	29.94	0.65	30.01	0.93	30.29	1.58	30.93
7	384593	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	384613	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	384633	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	384653	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	384533	390440	2.17	29.94	2.23	30.01	2.51	30.29	3.15	30.93
12	384553	390440	2.14	29.94	2.20	30.01	2.48	30.29	3.13	30.93
13	384573	390440	NoData	NoData	NoData	NoData	NoData	NoData	0.39	30.93
14	384593	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	384613	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	384633	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	384653	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	384553	390460	2.56	29.94	2.62	30.01	2.90	30.29	3.54	30.93
19	384573	390460	2.28	29.94	2.35	30.01	2.62	30.29	3.27	30.93
20	384593	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	384613	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384633	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	384653	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	384553	390480	2.43	29.94	2.49	30.01	2.77	30.29	3.42	30.93
25	384573	390480	2.73	29.94	2.80	30.01	3.08	30.29	3.72	30.93
26	384593	390480	1.59	29.94	1.65	30.01	1.93	30.29	2.57	30.93
27	384613	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	384633	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Data in this table comes from the Upper Mersey 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.



**Defences removed
climate change
modelled fluvial
extent and height**

Location (easting/northing)
384595/390444

Scale Created
1:1,000 8 Jul 2024

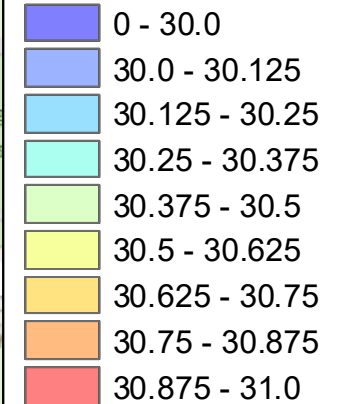
Model name
Upper Mersey 2017

 Selected area

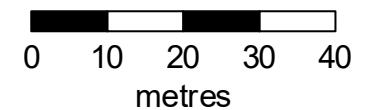
 Main river

Modelled 2D grid

Water level in mAOD



This map shows the
0.1% AEP +30% height data



Sample point data

Defences removed climate change

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	384593	390400	NoData	NoData	NoData	NoData	NoData	NoData	0.90	30.68
2	384613	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384633	390400	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	384533	390420	2.34	29.94	2.38	29.98	2.55	30.15	3.08	30.68
5	384553	390420	1.92	29.94	1.95	29.98	2.12	30.15	2.65	30.68
6	384573	390420	0.59	29.94	0.62	29.98	0.79	30.15	1.32	30.68
7	384593	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	384613	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	384633	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	384653	390420	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	384533	390440	2.17	29.94	2.20	29.98	2.37	30.15	2.90	30.68
12	384553	390440	2.14	29.94	2.17	29.98	2.34	30.15	2.88	30.68
13	384573	390440	NoData	NoData	NoData	NoData	NoData	NoData	0.70	30.68
14	384593	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	384613	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	384633	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	384653	390440	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	384553	390460	2.56	29.94	2.59	29.98	2.76	30.15	3.29	30.68
19	384573	390460	2.28	29.94	2.31	29.98	2.48	30.15	3.02	30.68
20	384593	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	384613	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384633	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	384653	390460	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	384553	390480	2.43	29.94	2.46	29.98	2.63	30.15	3.17	30.68
25	384573	390480	2.73	29.94	2.77	29.98	2.94	30.15	3.47	30.68
26	384593	390480	1.59	29.94	1.62	29.98	1.79	30.15	2.32	30.68
27	384613	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	384633	390480	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

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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