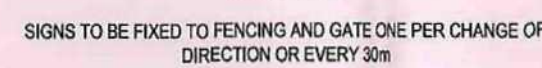
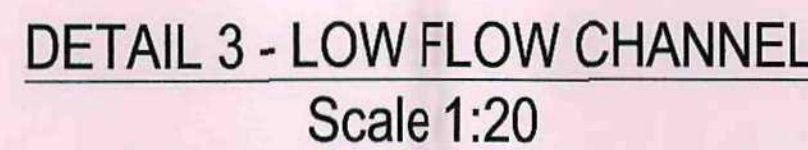
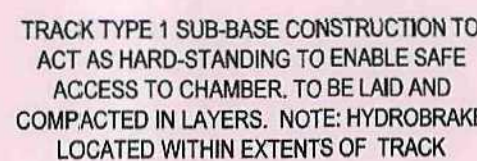
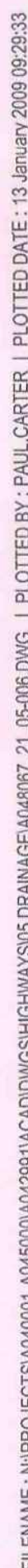
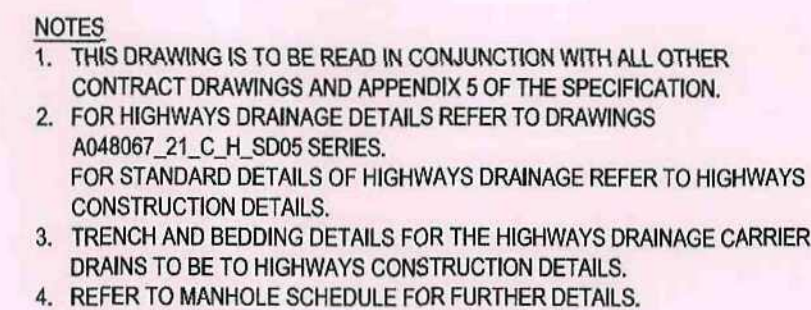


FILENAME : N:\PROJECTS\A040001-A045000\A049991\ACAD\DWG\HIGHWAYS\05 DRAINAGE\A042991 21\_05-001-005.DWG | PLOTTED DATE : 10 December 2006 08:23:02



TO BE PLACED AT CHAINAGE 25, FACING SOUTH, MOUNTING HEIGHT OF 2300mm



### KEY

HIGHWAYS DRAINAGE


 FENCE  
 GATE

## PRELIMINARY ISSUE



ARNDAL COURT  
HEADINGLEY  
LEEDS  
LS6 2UJ

TEL: +44 (0)113 278 7111  
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e-mail: leeds@wyg.com

Project:

CUDWORTH & WEST GREEN BYPASS  
BARNSELY

Drawing Title:

## PROPOSED HIGHWAYS DRAINAGE PROPOSED BALANCING POND PLAN, SECTIONS AND DETAILS

Barnsley Metropolitan  
Borough Council  
15 JAN 2009  
Corporate Mail Room

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## APPENDIX G – Flood Mapping



## Flood map for planning

Your reference

**Cudworth**

Location (easting/northing)

**439026/410319**

Scale

**1:2,500**

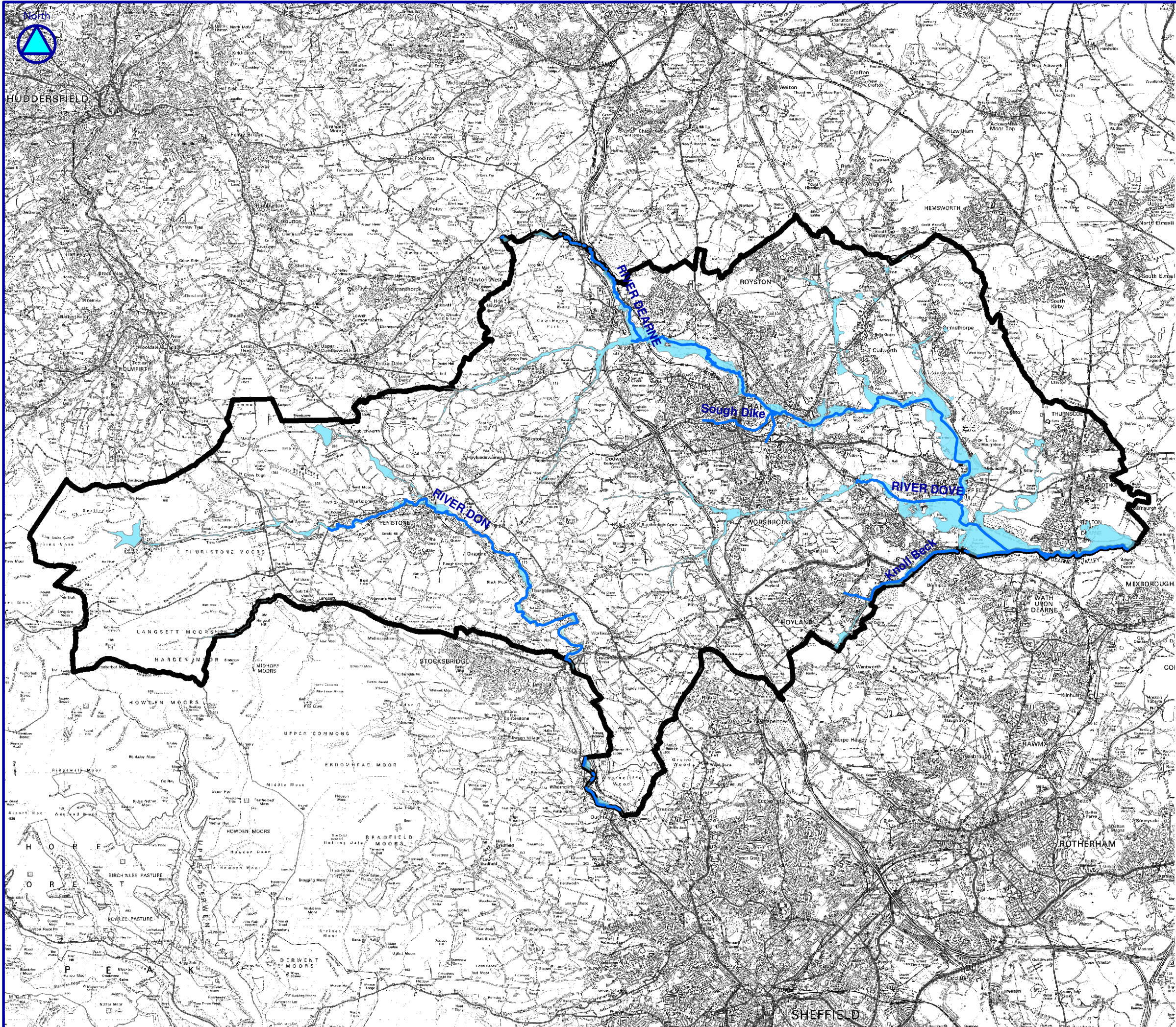
Created

**13 Apr 2026 22:55**

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



0 20 40 60m



LEGEND

1:120,000

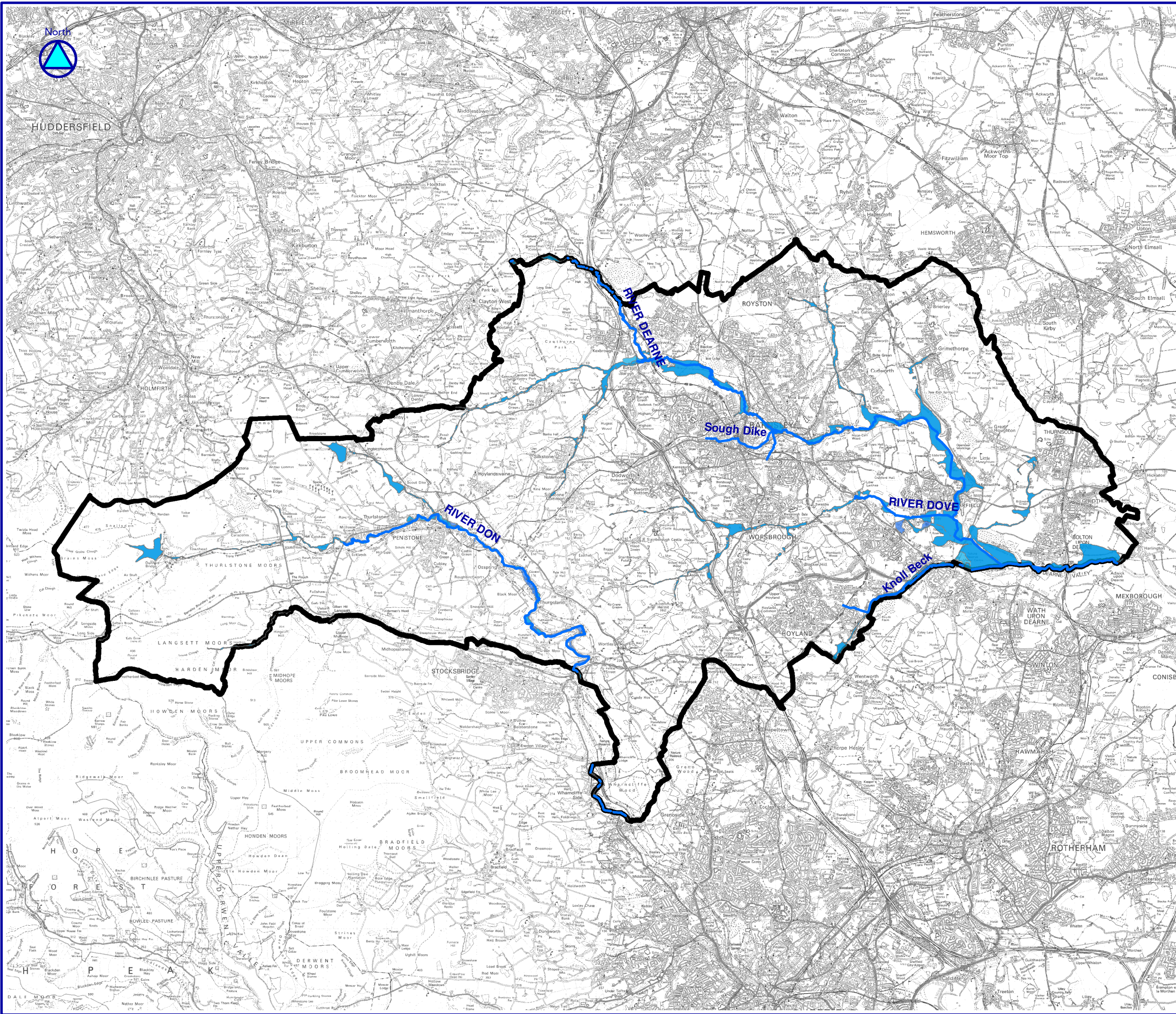
- Main River
- Flood Zone 2
- Barnsley MBC Boundary

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MAP 4

FLOOD ZONE 2



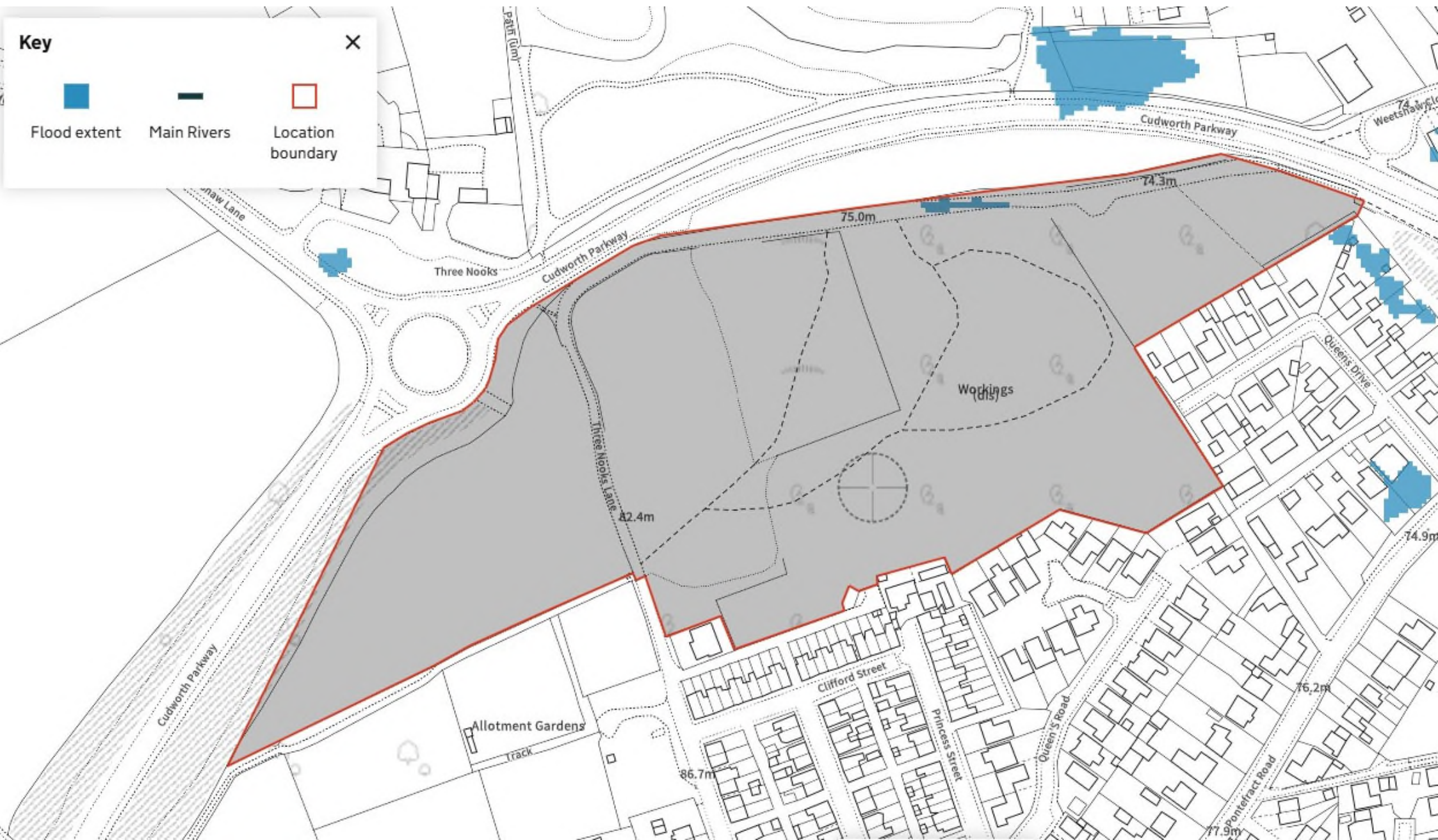
LEGEND 1:120,000

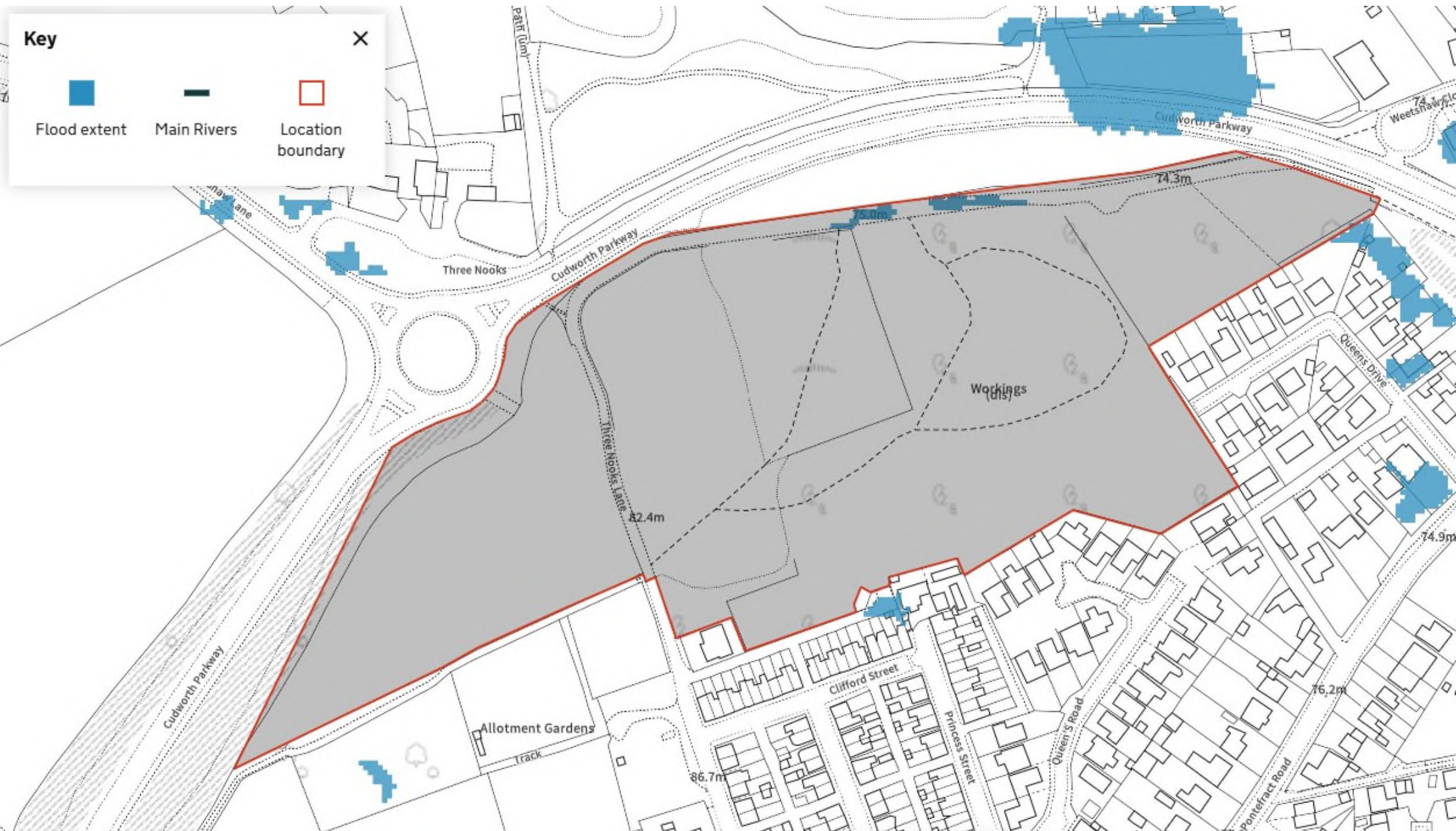
- Main River
- Flood Zone 3
- Barnsley MBC Boundary

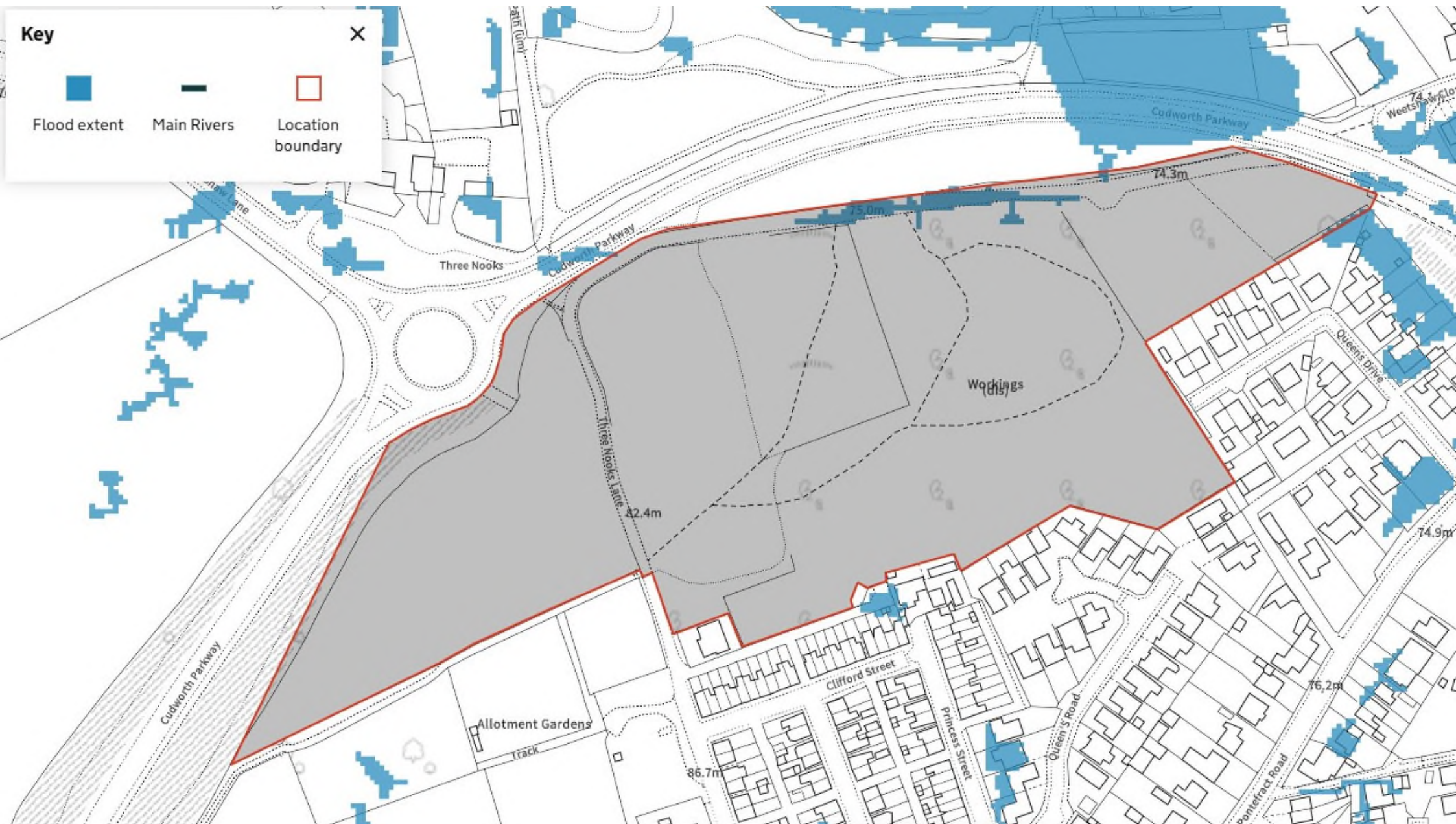
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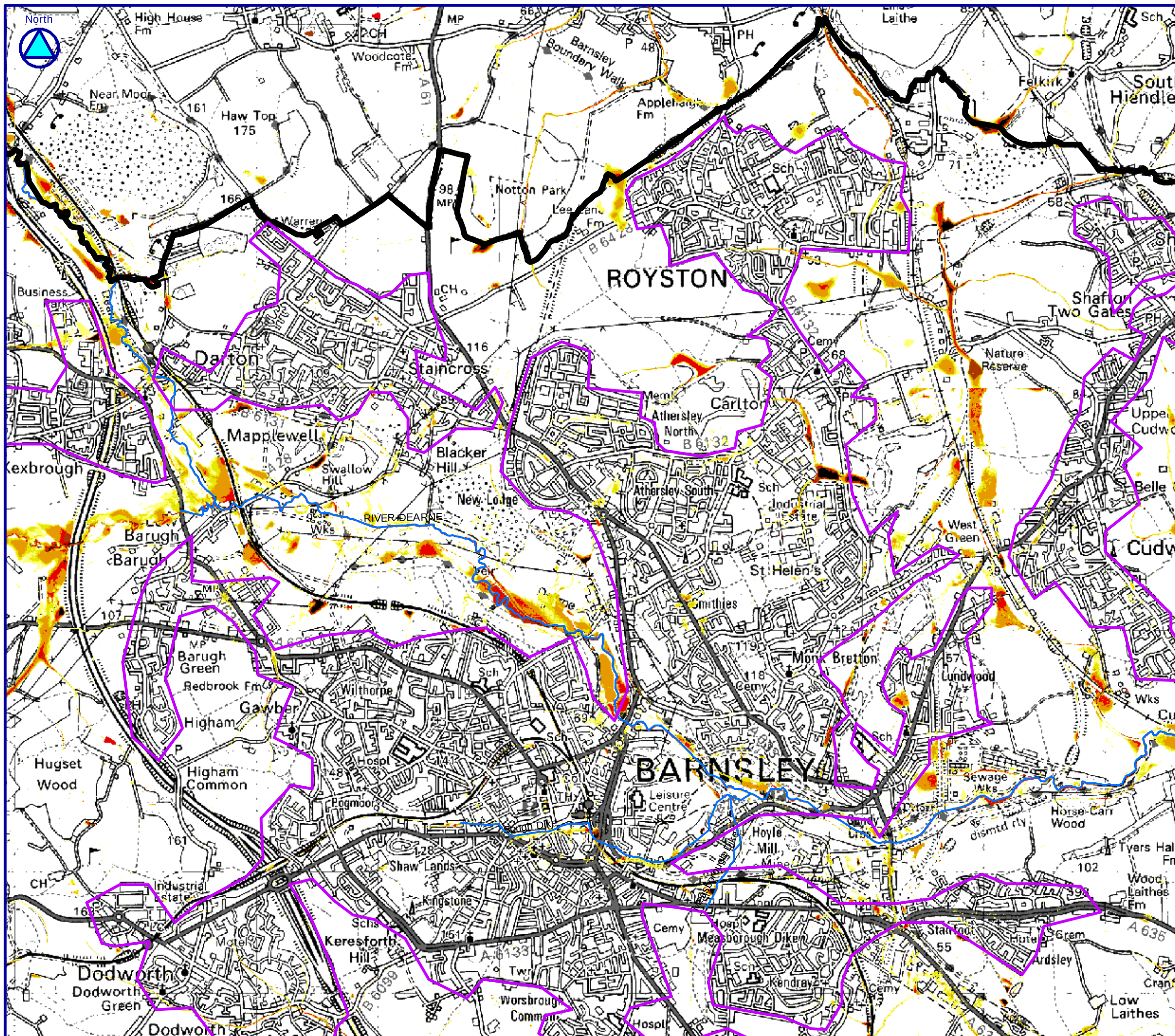


MAP 3  
FLOOD ZONE 3

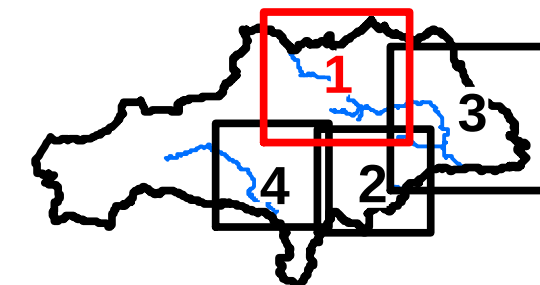






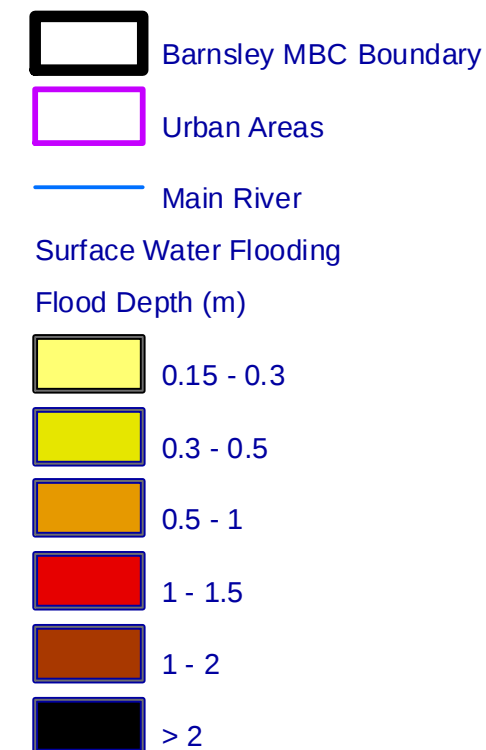


## KEYPLAN



## LEGEND

1:30,809



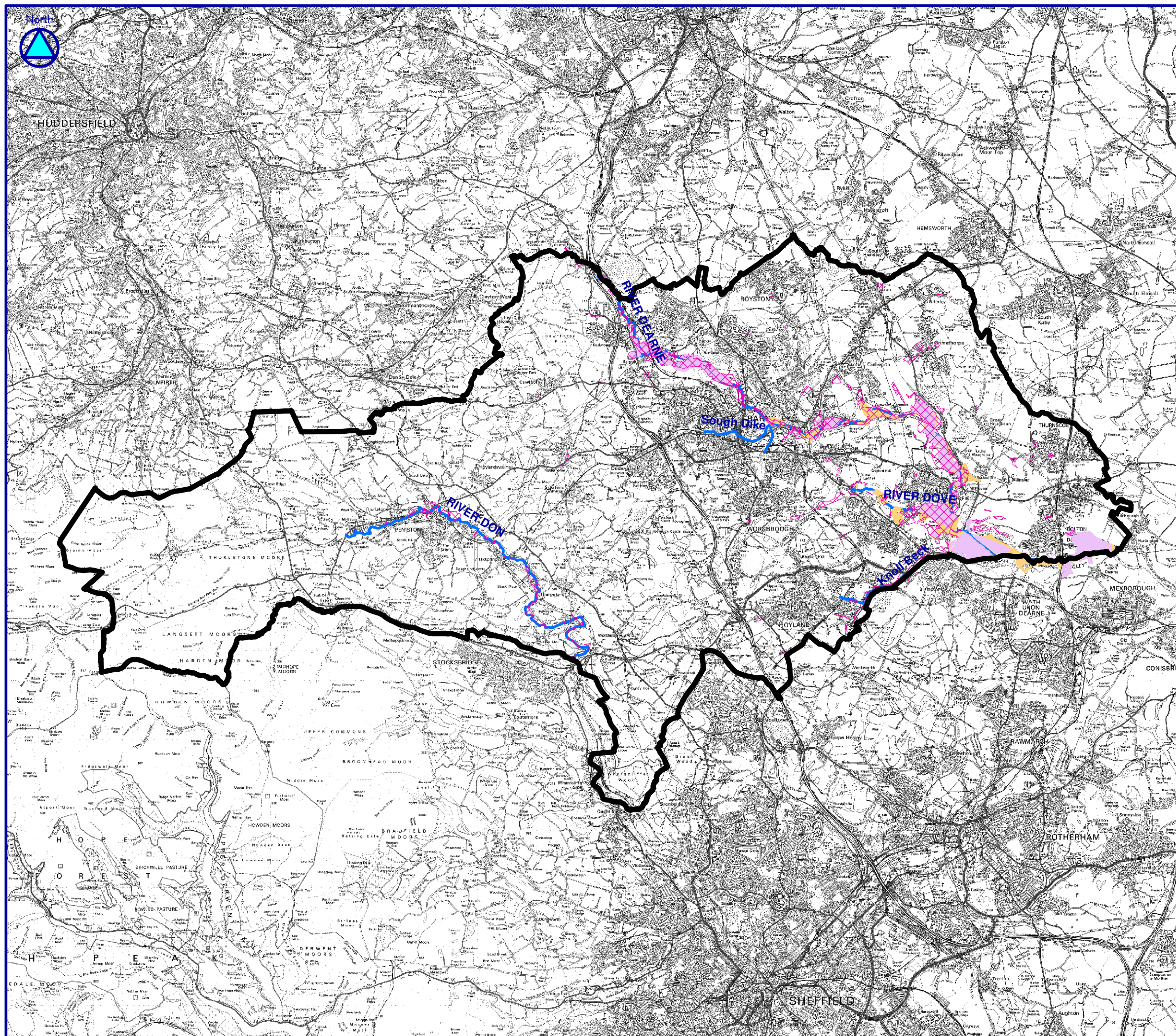
Note:  
Please see Section 5.8 of the SFRA  
for further details.

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## MAP C - 1

PLUVIAL FLOODING CAUSED BY  
100YEAR RAINSTORM



## LEGEND

1:126,172



Barnsley MBC Boundary

- Main River

## Historical Flood Extents



June 2007

Autumn 2000



January 1982

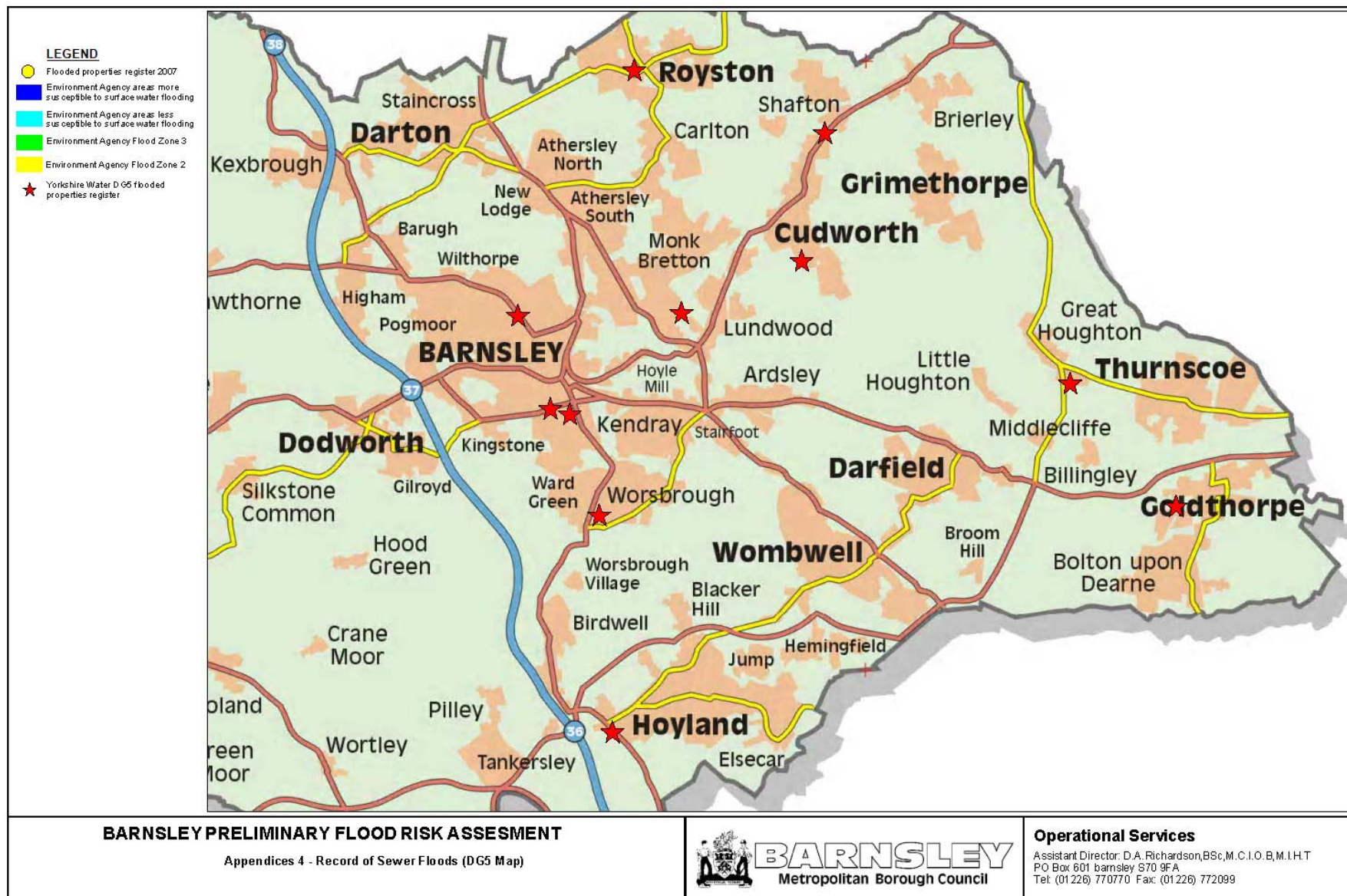
March 1947

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## MAP 2

## HISTORICAL FLOOD EVENTS



## APPENDIX H – EA Correspondence

## **The Flood Map for Planning EIR2026/18055 EXJB7B9GDB11**

The Flood Map for Planning (Rivers and Sea) can be viewed and downloaded as a PDF file on GOV.UK by following this link: <https://flood-map-for-planning.service.gov.uk> or downloaded in GIS format under an open data licence from the following address: <https://environment.data.gov.uk/>

Please type Flood Map for Planning in the search box.

What is the Flood Map for Planning?

The Flood Map for Planning provides information on flooding from rivers and the sea for England and Wales. The Flood Map also has information on flood defences and the areas benefiting from those flood defences.

The Flood Map for Planning shows the following:

1. Flood Zone 3 (dark blue area on the enclosed map): natural flood plain area that could be affected by flooding from rivers and/or the sea – not taking into account the presence of any flood defences
  - For flooding from rivers the map indicates the extent of a flood with a 1% (1 in 100) chance of happening each year;
  - For flooding from the sea the map shows the extent of a flood with a 0.5% (1 in 200) chance of happening each year.
2. Flood Zone 2 (light blue area): natural flood plain area that could be affected by flooding from rivers and/or the sea – not taking into account the presence of any flood defences. Flood Zone 2:
  - indicates the extent of a flood with a 0.1% (1 in 1000) chance of happening each year.
  - and/or indicates the greatest recorded historic flood, whichever is greater.
3. Flood defences built in the last five years to protect against river floods with a 1% (1 in 100) chance of happening each year, together with some natural or constructed entities which retain, store or channel water and which may protect against smaller floods.

## **Flood History**

See the attached map showing the flood history for this site. The extent of flooding, and/or flood level information is only shown for those watercourses surveyed after the flood. Other flooding may have occurred which is not shown. This is the best information currently available. Please note that for this reason, we are unable to confirm if flooding has occurred at a property scale. The Flood History Map PDF we have provided shows the area of land that has flooded rather than any individual property. Please refer to the attached table detailing the causes of those past floods.

In the attached list, there may be outlines which have not been included; these have a Flood Map or Historical Flood Map status of “Considered and Rejected”. This could be for various reasons, including but not limited to the outline consisting of flooding from surface water, overland flow or sewage. It could also be a result of the data being of very poor quality, or in some cases, where changes in the area make a historical flood outline no longer representative of the flood risk, e.g. ground raising or flow path changes.

*Water causing flooding can come from different places, for example from rivers or the sea; surface water (i.e. rainwater flowing over or accumulating on the ground before it is able to enter rivers or the drainage system); overflowing or backing up of sewers or drainage systems which have been overwhelmed or from groundwater rising from underground aquifers.*

***Please note that this record doesn't include all of the flooding that may have occurred including and since 1st November 2023. Given the process of recording, verifying and updating our record from major floods is extensive and may take a considerable amount of time.***

## **Assets**

There are no assets for this location

## **Modelling**

We do not have any modelled data for this location

Please note that whilst the information provided is our best available data, we do not guarantee that is sufficient for land use planning or other such purposes. It is the applicant's responsibility to assess the suitability of the provided model/data for their purposes.

## **Climate Change**

Updated guidance on how climate change could affect flood risk to new development - '[Flood risk assessments: climate change allowances](#)' was published on gov.uk on 19 February 2016. You should confirm the flood risk vulnerability classification and lifetime of your proposed development in line with NPPF and apply the appropriate climate change allowances.

## **Bespoke Flood Risk Assessment (FRA) advice:**

If the pre-application advice is required with regards the preparation of a site-specific Flood Risk Assessment, this can be requested via the Yorkshire Sustainable Places team (email: [sp-yorkshire@environment-agency.gov.uk](mailto:sp-yorkshire@environment-agency.gov.uk)). Charges may apply for any advice that is provided, this currently stands at £100 per hour per person. The [.gov.uk](#) pages provide a good starting point on what to include within a site-specific Flood Risk Assessment and can be accessed via <https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications>. A site-specific Flood Risk Assessment will need to consider flood risks from all sources, including those associated with defence failure (e.g. breach) and accounting for the predicted impacts as a result of climate change. Please contact the Sustainable Places team if you require advice on how to include these within a Flood Risk Assessment.

## **Other**

### **Surface Water Map**

Lead Local Flood Authorities (LLFA) are responsible for managing local flood risk from surface water flooding and groundwater flooding. You should check with the LLFA as they may have more up to date information regarding this type of flooding.

The Risk of Flooding from Surface Water Flood Map can be viewed and downloaded as a PDF file on GOV.UK by following this link: <https://flood-warning-information.service.gov.uk/long-term-flood-risk>

### **Surface Water Drainage**

The Lead Local Flood Authority is the statutory consultee for planning matters relating to surface water drainage, therefore it is recommended they should be consulted separately regarding this.

Surface water discharge from new development should ideally 'mimic' the pre-development situation using a sustainable drainage system so that the flow and volume of water in watercourses is not increased.

A permit may be required, under the Environmental Permitting Regulations 2016 from the Environment Agency for any proposed works or structures in, under, over or within eight metres of a 'main river' (e.g., a new outfall). A permit is separate to and in addition

to any planning permission granted. Further details and guidance are available on the GOV.UK website:

<https://www.gov.uk/guidance/flood-risk-activities-environmental-permits>

### **Risk of Flooding from Reservoirs Map**

Outlines and simplified depth and velocity maps can be viewed on our website:

<https://flood-warning-information.service.gov.uk/long-term-flood-risk/#x=438988&y=406600&scale=2>

Please, zoom into the location of interest, and then click on the inundated location for details. As a result a list of reservoirs will be provided with supporting information and a links to other data, such as estimated depths and speed of flooding, at the bottom of the result page.

A map of showing the outlines can also be provided on request.

### **Flood Warning**

The site may be covered by a Flood Warning. To register to receive this service, you can call Floodline 24 hours a day on 0845 988 1188.

### **LIDAR Data**

Please note that our LiDAR data is now available free of charge (Open Data) from <https://environment.data.gov.uk/survey> (once zoomed to the relevant location the available LiDAR products will be listed below the map).

Two LIDAR products are available:

1. Tiled LIDAR data - The full tiled dataset consists of historic LIDAR data which has been gathered since 1998. For some areas we have carried out repeat surveys and data is available in a range of resolutions.
2. Composite LIDAR data - The composite dataset is derived from a combination of our full tiled dataset which has been merged and re-sampled to give the best possible spatial coverage.

Light Detection and Ranging (LIDAR) is an airborne mapping technique, which uses a laser to measure the distance between the aircraft and the ground. This technique results in the production of an accurate, cost-effective terrain model suitable for assessing flood risk and other environmental applications.

The Environment Agency owns two LIDAR systems, which are installed in a survey aircraft along with its other operational remote sensing instruments.

The aircraft is positioned and navigated using Global Positioning System (GPS) corrected to known ground reference points. The aircraft typically flies at a height of about 800 metres above ground level and a scanning mirror allows a swath width of about 600 metres to be surveyed during a flight.

## **The Rights & Responsibilities of a Riverside Owner**

The owner of property adjacent to a watercourse is usually deemed to be the riparian owner and, as such, has both riparian rights and responsibilities with regard to the watercourse within their ownership.

For more information on Rights and Responsibilities of a riverside owner, you can visit our website at:

[Your Watercourse: Rights and Roles.](#)

## **Ordnance Survey Data**

Under the terms of our licence agreement with the Ordnance Survey, we are unable to supply the OS data. Under this agreement we can only supply OS data to consultants/contractors carrying out work on our behalf.

## **Did you know?**

You can now request flood risk assessment data (also known as a Product 4) online at <https://flood-map-for-planning.service.gov.uk/>