

# NOTE TO FILE

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Contract Doncaster MBC Level 1 - SFRA Review and Amendment  
Client Doncaster Metropolitan Borough Council  
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## 1 Flood Outlines

Following a review of the draft functional floodplain by the Environment Agency and DMBC, it has been decided that the 2009 functional floodplain, produced during the 2009 SFRA, should be retained with several edits carried out by the EA using the draft functional floodplain from this 2015 SFRA.

A further level of flood risk information is also proposed by the EA which takes account of residual flood risk. The representative outline for this is called the '*Residual Flood Risk Zone*'. This zone is made up of information from a variety of sources provided in a document by the EA. These sources are detailed in the main SFRA report. The Residual Flood Risk Zone covers areas for which the EA provides advice on residual flood risk and where new bungalows or basements are permitted for construction.

This SFRA therefore contains four levels of fluvial / tidal flood risk by which the sequential screening of land allocations is carried out:

- Flood Zone 3b (functional floodplain)
- Flood Zone 3a (Flood Zone 3 that is not functional floodplain)
- Flood Zone 2 (no change from the EA Flood Map for Planning Flood Zone 2 version 201502)
- Residual Flood Risk Zone

## 2 GIS Methodology

### 2.1 Functional Floodplain

The 2009 Flood Zone 3b outline was edited by the EA to include certain areas, based on local knowledge, originally delineated for the 2015 draft functional floodplain outline. It was also required to fill dry islands <750 m<sup>2</sup> and remove wet islands <250 m<sup>2</sup>. This final GIS shapefile is called 'Functional\_Floodplain\_Aug2015.shp'.

### 2.2 Flood Zone 3a

This covers all areas of the EA Flood Map for Planning Flood Zone 3 (version 201502) that are not within the functional floodplain. To create this layer, areas of Flood Zone 3 that overlapped with the Functional Floodplain 2015 outline were removed. This process led to the formation of slivers and wet islands. These have been removed. This final layer is called 'Flood Zone 3a 2015'.

### 2.3 Residual Flood Risk Zone

The EA provided ArcGIS shapefiles covering certain areas at residual flood risk:

- 1947 and 2007 historical flood area
- Isle of Axholme – 4.1 m AOD critical flood level
- Bentley Flood Corridor
- Bentley Ings Pumping Station – 1% AEP + climate change defended and undefended

Two other residual risk areas around the Lower Don – Lower Don defences (Doncaster to Sykehouse) and Lower Don defences (Left Bank tidal influence) – have been cited by the EA. The Doncaster to Sykehouse area is fully contained within the 1947 and 2007 historical flood area. The left bank area of the Lower Don has been delineated from the 5 m contour level using the OS OpenData 50 m DTM.