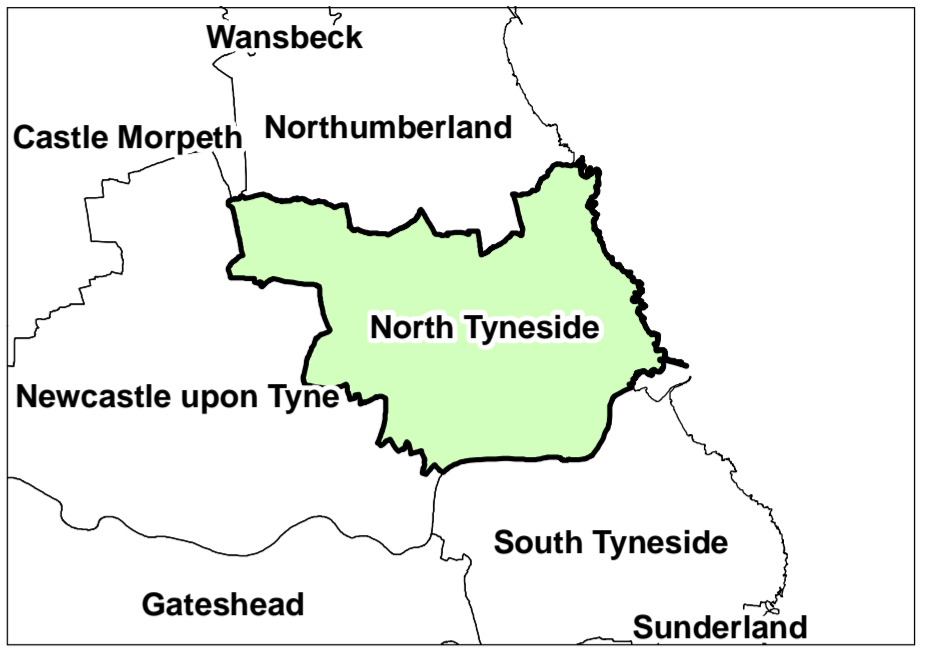


KEY PLAN



USER NOTES

CDAs have been defined using information collected from the Environment Agency (EA), Northumbrian Water (NWL), North Tyneside Council (NTC) and all historical flood incidents.

CDAs have been proposed in North Tyneside by identifying NWL Drainage Areas at high risk, their contributing natural catchments and those areas highly susceptible to surface water flooding.

After consultation with NWL, CDAs have been proposed in the drainage areas of Benton, Brierdene and Whitley Bay. NWL have recently completed drainage schemes around Whitley Bay to improve the drainage system and remove the risk of flooding from the sewer network, however there is still at risk from surface water runoff from surrounding greenfield land.

The area of Benton has been highlighted as the key area of flood risk within North Tyneside as there is significant interaction from a number of sources including the drainage network, surface water flooding and fluvial flooding from local watercourses.

Within CDAs, an increase in the rate of surface water runoff and/or volume from a new development may exacerbate the degree of flood risk downstream or to the surrounding community. In these areas, a detailed FRA would be expected for those developments greater than 0.5ha regardless of which Flood Zone that applies.

The FRA should demonstrate that the development will not adversely affect existing flooding conditions in these critical areas by increasing the rate of surface runoff and should define and address the constraints that will govern the design of the drainage system and layout of the development site. Developers should look to reduce or control runoff to Greenfield rates. The use of appropriate mitigation measures should be investigated. Ideally, NTC should work closely with the EA, NWL and individual developers to ensure surface water runoff is controlled as near to the source as possible which will include the application of SUDs.

These CDAs are also used to identify the need for FRAs, drainage impact assessments and high level SWMP recommendations.

LEGEND

- Main Rivers
- Ordinary Watercourses 50k
- Housing Growth Point Sites
- SHLAA
- Critical Drainage Areas
- Contributing Natural Catchments

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The Brew House
Widderpool Park
Greenall's Avenue
Warrington
WA4 6HL
United Kingdom

www.jbaconsulting.co.uk
+44 (0)1925 437 020
+44 (0)1925 437 029
info@jbaconsulting.co.uk

North Tyneside Council

Other offices at Atherstone, Doncaster, Edinburgh, Limerick, Newcastle, Northallerton, Northampton, Salford, Skipton, Tadcaster & Wellingford

**NORTH TYNESIDE COUNCIL
STRATEGIC FLOOD RISK ASSESSMENT
LEVEL 1 SFRA
CRITICAL DRAINAGE AREAS**

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