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Sustainable Drainage report for the development at Grange Crescent Thurnscoe Rotherham.

The purpose of this report is to assess the potential for disposing of surface water through a sustainable drainage system (SuDS) to satisfy a planning application for new dwellings at the site address (the Site). The site on Grange Crescent Thurnscoe lies in an urban area which is neither at risk of flooding from rivers or surface water.

At present the site is covered by 90% permeable surface consisting of open common land and what remains of a non permeable hard surfaced area which is the remains of a former public house car park. The proposal will try to remove the existing non permeable area and create as much permeable area as possible with the use of special hard standing areas and gardens. It is also proposed that the roof surface water be channelled into individual soak a ways to the rear of the properties. The relatively high permeability of the Sandstone Formation may create potential for a soak a ways to the rear of each house. However, the permeability of the ground here will have to be investigated by way of percolation testing to verify the feasibility of such a scheme.

Maximum groundwater levels should be sufficiently below the base of potential infiltration soak away.