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Stoney Lane, Whiston - Surface Water Drainage Strategy

In accordance with national and local planning policy, including the National Standards for SuDS (July 2025) and the SuDS Manual (CIRIA 753), all sites will endeavour to achieve as close to pre-development greenfield equivalent rates as is viable. This is pertinent for sites such as Stoney Lane which is located within Critical Drainage Areas.

Based on the development area, the pre-development greenfield rate (QBar) is calculated to be 42.4l/s (based on 7.5l/s/ha). Restricting the rate of discharge generates a requirement to provide onsite stormwater storage for the extreme rainfall events. The surface water scheme for the development has been designed to cater for the surface water run-off generated in the events up to and including the 1 in 100yr return period event with 45% allowance for climate change.

The National Planning Practice Guidance sets out The Hierarchy of Drainage to promote the use of Sustainable Drainage Systems, by aligning modern drainage systems with natural water processes, the aim to discharge surface water run off as high up the drainage hierarchy as reasonably practicable. The site is deemed unsuitable for infiltration due to the contaminated nature of the development. Conforming in line with the hierarchy, the required onsite attenuation will be provided via an attenuation basin in the centre of the development and network of underground oversized pipes which discharges into a surface water body (Whiston Brook). The attenuation basin has been adopted under the hierarchy as the most economically viable feature which mimics natural hydrology over traditional methods that by passes natural processes.

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