



H20K

Sustainable Urban Drainage

Sustainable Urban Drainage Design

Sustainable Urban Drainage Systems (SUDS) minimize the effect of development drainage on the local environment by mimicking natural hydrological processes. SUDS are used to disperse rainfall into the ground as close as possible to the point of precipitation by the use of infiltration systems such as permeable paving, swales, open basins or soakaways. Where ground conditions do not allow infiltration, then attenuation systems may be used to store rainfall and allow release at rates equivalent to the undeveloped greenfield run off rate. Consideration of SUDS is becoming an important element in the planning process for any development of significant size or those in problem catchment areas.

At H2OK our engineers are fully experienced in SUDS investigation and design and will undertake work throughout the UK. We are able to undertake the following services:

- Receipt of approvals from the Environment Agency and discharge of planning conditions laid down by local authorities on drainage
- Drainage optimisation with hydraulic modelling
- Advice on rainwater recycling methods
- Ground percolation testing
- Hydrological assessments
- Design of soakaway systems
- Greenfield runoff calculations
- Design of attenuation systems
- Conventional drainage design

H₂OK have provided drainage and SUDS designs for a number of private development schemes undertaken by Molwin Homes. They have always provided us with well engineered and innovative solutions, sometimes on steeply sloping sites with limited land.

Richard Abbott
Managing Director of Molwin Homes



H2OK

H2OK Systems Ltd, Nanjerrick Court, Allet, Truro, Cornwall TR4 9DJ
ph: 01872 542100 web: www.h2ok.co.uk