

Newhall Valley, Sutton Coldfield

SuDS used

- Filter drains
- Swales

1. Location

Newhall Valley, Sutton Coldfield, West Midlands.

2. Description

Newhall Valley is a residential development with 600 properties. The nearby Plants Brook is subject to flooding. In each of the 3 plots runoff is conveyed to a pollution control tank and hydrobrake. In the Northern plot the overflow is stored in an infiltration trench, the infiltration trench overflow travels via a pipe to a distribution trench. In the middle and Southern plots the overflow is conveyed by swale to a wetland and attenuation basin respectively.

Performance of the SuDS can be shown by looking at the results from EA sampling which indicate significant removal of:

- Suspended solids (80% - 44%)
- Ammonia (80% - 0%)
- BOD (67% - 70%)

3. Main SuDS components used

The following SuDS components were used on this site:

- Filter drains
- Swales