

SuDS Pollution Index Assessment

Description of Calculations
Newbarn Lane. SuDS assessment for pollution mitigation to Qria C753 "The SuDS Manual" Tables 26.2, 26.3 and 26.4

Assessment of pollution hazard

Taken from Table 26.2

Pollution Hazard Indices				
Land Use	Pollution Hazard Level	TSS	Metals	Hydro-carbons
Residential Roofs	Low	0.2	0.2	0.05
Access Road and Driveways	Low	0.5	0.4	0.4

Access Roads are therefore the worst case hazard

Minimum SuDS Route for the Specified Land Use (Southern Network) Assuming Roads as Worst Case

SuDS Pollution Mitigation Indices				
SuDS Type		TSS	Metals	Hydro-carbons
Detention Basin	100% effectiveness	0.5	0.5	0.6
Total SuDS Mitigation Index		0.5	0.5	0.6
Outcome				
Overall Mitigation Index		+0	+0.1	+0.2
Pass		Pass	Pass	Pass

The minimum SuDS route provides mitigation indices above the requirement.

Minimum SuDS Route for the Specified Land Use (Northern Networks) Assuming Roads as Worst Case

SuDS Pollution Mitigation Indices				
SuDS Type		TSS	Metals	Hydro-carbons
SDS Aqua Swirl	100% effectiveness	0.8	0.54	0.73
Total SuDS Mitigation Index		0.8	0.54	0.73
Outcome				
Overall Mitigation Index		+0.3	+0.14	+0.33
Pass		Pass	Pass	Pass

The minimum SuDS route provides mitigation indices above the requirement.