

Superseded



Greenfield runoff rate estimation for sites

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Calculated by: CHARLOTTE LICKMAN

Site name: ASW Scaffolding

Site location: ASW Scaffolding

Site Details

Latitude: 51.70834° N

Longitude: 3.712° W

Reference: 564622848

Date: Oct 15 2024 16:47

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013) , the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Runoff estimation approach

FEH Statistical

Site characteristics

Total site area (ha): 0.1

Methodology

Q_{MED} estimation method: Calculate from BFI and SAAR

BFI and SPR method: Specify BFI manually

HOST class: N/A

BFI / BFIHOST: 0.327

Q_{MED} (l/s):

Q_{BAR} / Q_{MED} factor: 1.08

Hydrological characteristics

	Default	Edited
SAAR (mm):	1815	1982
Hydrological region:	9	9
Growth curve factor 1 year:	0.88	0.88
Growth curve factor 30 years:	1.78	1.78
Growth curve factor 100 years:	2.18	2.18
Growth curve factor 200 years:	2.46	2.46

Notes

(1) Is Q_{BAR} < 2.0 l/s/ha?

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is SPR/SPRHOST ≤ 0.3?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Greenfield runoff rates

Default

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Q _{BAR} (l/s):		2.77
1 in 1 year (l/s):		2.44
1 in 30 years (l/s):		4.93
1 in 100 year (l/s):		6.03
1 in 200 years (l/s):		6.81

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