

Appendix B

Calculated by:	Edward Fambely
Site name:	2205770
Site location:	

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.

Site Details

Latitude:	50.82269° N
Longitude:	0.59496° W
Reference:	2085236891
Date:	Feb 18 2025 16:57

Runoff estimation approach

FEH Statistical

Site characteristics

Total site area (ha):	1
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Methodology

Q_{MED} estimation method:	Calculate from BFI and SAAR
BFI and SPR method:	Specify BFI manually
HOST class:	N/A
BFI / BFIHOST:	0.63
Q_{MED} (l/s):	
Q_{BAR} / Q_{MED} factor:	1.14

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.

Hydrological characteristics

Default Edited

SAAR (mm):	736	736	Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.
Hydrological region:	7	7	
Growth curve factor 1 year:	0.85	0.85	
Growth curve factor 30 years:	2.3	2.3	
Growth curve factor 100 years:	3.19	3.19	
Growth curve factor 200 years:	3.74	3.74	

(3) Is $SPR/SPRHOST \leq 0.3$?

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	Edited
Q _{BAR} (l/s):		2.42
1 in 1 year (l/s):		2.06
1 in 30 years (l/s):		5.56
1 in 100 year (l/s):		7.71
1 in 200 years (l/s):		9.04

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.eksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at www.eksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.