

Greenfield runoff rate estimation for sites

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Calculated by:	Matthew Fox			Site Details		
	O2 Finchley R	ood		Latitude:	51.54781° N	
		Uau		Longitude:	0.18388° W	
Site location:				L.		
This is an estimation of the greenfield runoff rates that are used to meet norma in line with Environment Agency guidance "Rainfall runoff management for dev SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutor (Defra, 2015). This information on greenfield runoff rates may be the basis for				velopments", Reference:	4259196723 Nov 03 2022 12:25	
the drainage of surface						
Runoff estimation	n approach	IH124				
Site characteristi	cs			Notes		
Total site area (ha): 5.72				(1) Is Q _{BAR} < 2.0 I/s/ha?		
Methodology				(1) is $Q_{BAR} < 2.0$ i/s/fia?		
Q _{BAR} estimation me	BAR estimation method: Calculate from SPR and SA			When Q_{BAB} is < 2.0 l/s/ha then limiting discharge rates are set		
SPR estimation method: Calculate from S0			type	at 2.0 l/s/ha.		
Soil characteristi	cs Defau	lt Edite	ed			
SOIL type:	4	4		(2) Are flow rates < 5.0 l/s?		
HOST class:	N/A	N/A		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		
SPR/SPRHOST:	0.47	0.47				
Hydrological cha	racteristics	Default	Edited	materials is possible. Lower cons where the blockage risk is addre	2	
SAAR (mm):		640	640	drainage elements.		
Hydrological region:		6	6	(3) Is SPR/SPRHOST ≤ 0.3?		
Growth curve factor 1 year:		0.85	0.85	(3) is 3PH/3PHI031 ≤ 0.3 ?		
Growth curve factor 30 years:		2.3	2.3	Where groundwater levels are lo	ě	
Growth curve factor 100 years:		3.19	3.19	soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.		
Growth curve factor 200 years:		3.74	3.74			

Greenfield runoff rates	Default	Edited
Q _{BAR} (I/s):	24.87	24.87
1 in 1 year (l/s):	21.14	21.14
1 in 30 years (l/s):	57.19	57.19
1 in 100 year (l/s):	79.32	79.32
1 in 200 years (l/s):	93	93

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.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.uksuds.com/termsand-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.