Appendix D Greenfield Runoff Rates



Greenfield runoff rate estimation for sites

51.54465° N

0.17328° W

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Calculated by:	Sohan Ghim	ire			Site Deta	ils
Site name:	5-7 Adamso	n Road			Latitude:	
Site location:	London NW3	3НХ			Longitude:	
				neet normal best practice criteria in line with Environmen 030219 (2013) , the SuDS Manual C753 (Ciria, 2015) and the	t Reference:	
non-statutory stand consents for the dra	•			reenfield runoff rates may be the basis for setting	Date:	
Runoff esti	mation ap	proach	IH124			
Site charac	teristics			Notes		
Total site area (h	a) : 0.10			(1) Is Q _{BAR} < 2.0 l/s/ha?		
Methodolog	gy					
Q _{BAR} estimation r	nethod: Cal	culate from S	SPR and SAAR	When Q _{BAR} is < 2.0 l/s/ha then limiting dis rates are set at 2.0 l/s/ha.	scharge	
SPR estimation m	nethod: Cal	culate from S	SOIL type			
Soil charac	teristics	Default	Edited	(2) Are flow rates < 5.0 l/s?		
SOIL type:	,	4	4	Where flow rates are less than 5.0 l/s co	onsent	
HOST class:		N/A	N/A	for discharge is usually set at 5.0 l/s if b	lockage	
SPR/SPRHOST:		0.47	0.47	from vegetation and other materials is p	oossible.	

Hydrological characteristics	Default	Edited
SAAR (mm):	640	640
Hydrological region:	6	6
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

Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(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.

C	Greenfield runoff rates	Default	Edited
Q	D _{BAR} (I/s):	0.43	0.43
1	in 1 year (l/s):	0.37	0.37
1	in 30 years (I/s):	1	1
1	in 100 year (I/s):	1.39	1.39
1	in 200 years (l/s):	1.63	1.63

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/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.