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Growth curve factor 200 years:

## Greenfield runoff rate estimation for

53.77937° N

www.uksuds.com | Greenfield runoff tool

Calculated by:	James Farron		Site Details
Site name:	Cottam Parkway -		Latitude:
Site location:	Catchment 1 Cottam		Longitude:
This is an estimation	of the greenfield runoff rates that are used	to meet normal best practice criteria in line with Environment Agency	Deference

Catchment 1 Cottam

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.

Longitude:

2.77787° W

Reference:

3503505043

Nov 03 2022 14:11

Runoff estimation ap	proach	IH124	1		
Site characteristics					Notes
otal site area (ha): 0.2	287				
/lethodology					(1) Is Q <sub>BAR</sub> < 2.0 l/s/ha?
BAR estimation method	d: Calcu	ulate fro	om SPR	and SAAR	When $Q_{BAR}$ is < 2.0 l/s/ha then limiting discharge rates are
PR estimation method	: Calcu	ulate fro	om SOIL	type	at 2.0 l/s/ha.
oil characteristics	Defau	lt	Edit	ed	
OIL type:	4		4		(2) Are flow rates < 5.0 l/s?
OST class:	N/A		N/A		
PR/SPRHOST:	0.47		0.47		Where flow rates are less than 5.0 l/s consent for discharge usually set at 5.0 l/s if blockage from vegetation and other
ydrological charac	teristics	De	efault	Edited	materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate
AAR (mm):		959		959	drainage elements.
ydrological region:		10		10	(a) to CDD (CDD LOCT + 0.00
rowth curve factor 1 y	ear:	0.87	,	0.87	(3) Is SPR/SPRHOST ≤ 0.3?
rowth curve factor 30	years:	1.7		1.7	Where groundwater levels are low enough the use of
arowth curve factor 100	) years:	2.08	3	2.08	soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

2.37

Greenfield runoff rates	Default	Edited
Q <sub>BAR</sub> (I/s):	2	2
1 in 1 year (l/s):	1.74	1.74
1 in 30 years (l/s):	3.4	3.4
1 in 100 year (l/s):	4.17	4.17
1 in 200 years (l/s):	4.75	4.75

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.