

Greenfield runoff rate estimation for sites

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Calculated by:	Dan Martin	Site Details	
Site name:	Northaw House	Latitude:	51.70655° N
Site location:	Hatfield, Potter Bar	Longitude:	0.1584° W
This is an estimation o	f the greenfield runoff rates that are used to meet normal best		
	with Environment Agency guidance "Rainfall runoff management :030219 (2013) , the SuDS Manual C753 (Ciria, 2015) and	Reference:	1748293818
the non-statutory standoe	dards for SuDS (Defra, 2015). This information on greenfield runoff rates may	Date:	Dec 16 2019 13:45
the basis for setting co	onsents for the drainage of surface water runoff from sites.		

Site characteristics Notes

IH124

0.952

Methodology

Total site area (ha):

Runoff estimation approach

Q_{BAR} estimation method:

Calculate from SPR and SAAR

SPR estimation method:

Calculate from SOIL type

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

Soil characteristics

 Default
 Edited

 SOIL type:
 4
 4

 HOST class:
 N/A
 N/A

 SPR/SPRHOST:
 0.47
 0.47

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

(1) Is $Q_{BAR} < 2.0 \text{ I/s/ha}$?

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.

Hydrological characteristics

Default Edited SAAR (mm): 679 679 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

(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 Edited Q_{BAR} (I/s): 4.44 4.44 1 in 1 year (I/s): 3.77 3.77 1 in 30 years (I/s): 10.2 10.2 1 in 100 year (I/s): 14.15 14.15 1 in 200 years (I/s): 16.59 16.59

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