HR Wallingford
Working with water

Greenfield runoff estimation for sites

www.uksuds.com | Greenfield runoff tool

Calculated by:	
Site name:	Parc Hadau
Site location:	Pontardawe

This is an estimation of the greenfield runoff rate limits that are needed to meet normal best practice criteria in line with Environment Agency guidance "Preliminary rainfall runoff management for developments", W5-074/A/TR1/1 rev. E (2012) and the SuDS Manual, C753 (Ciria, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Site coordinates

Latitude:	51.73387° N
Longitude:	3.85835° W

Reference:	
Date:	2019-06-27 10:15

Methodology	IH124

Site characteristics

Total site area (ha)	1.386

Methodology

Qbar estimation method	Calculate from SPR and SAAR
SPR estimation method	Calculate from SOIL type

	Default	Edited
SOIL type	3	4
HOST class	---	---
SPR/SPRHOST	0.37	0.47

Hydrological characteristics

	Default	Edited
SAAR (mm)	1597	1597
Hydrological region	9	9
Growth curve factor: 1 year	0.88	0.88
Growth curve factor: 30 year	1.78	1.78
Growth curve factor: 100 year	2.18	2.18

Notes:

(1) Is Q_{BAR} < 2.0 l/s/ha?

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

(3) Is SPR/SPRHOST ≤ 0.3?

Greenfield runoff rates

	Default	Edited
Qbar (l/s)	10.45	17.56
1 in 1 year (l/s)	9.2	15.46
1 in 30 years (l/s)	18.6	31.26
1 in 100 years (l/s)	22.78	38.29