



ReFH2 Greenfield Runoff Estimate Calculation Sheet

Site Name	Ty Du Uchaf
Site Location	Pwllheli
X (Easting)	236520
Y (Northings)	339909
Engineer	Alyssa Jones
Checked by	Daniel Hamilton
Reference	WHS1998
Revision	1
Date	10-Jan-23

Site Description

Total Area (ha)	8
Existing Developed area (ha)	0
SAAR (mm)	1237
PROPWET(mm)	0.56
BFIHOST19	0.35

Rainfall Parameters

Duration (hh:mm:ss)	02:18:00
Timestep (hh:mm:ss)	00:06:00
SCF (Seasonal correction factor)	0.76
ARF (Areal correction factor)	1 [0.99]
Seasonality	Winter

Loss Model Parameters

Cini (mm)	109.9
Cmax (mm)	249.03

Routing Parameters

Tp (hr)	1
Up	0.65
Uk	0.8

Baseflow Parameters

BF0 (m ³ /s)	0
BL (hr)	25.51 [22.2]
BR	0.91

Growth Curves and Discharge rates

Event	Q/Qmed	Q (l/s)	Q (l/s/ha)
Q1	-	62.88	7.86
Q2	1.00	71.64	8.96
Q30	2.36	168.83	21.10
Q100	3.35	239.94	29.99
Q100(CC)	4.93	353.55	44.19
Q1000	6.29	450.90	56.36