## **BROWNFIELD ESTIMATION OF PEAK FLOW RATE OF RUNOFF**

No.	ASV1	Abbreviation	Calculations	Value	
1	Hydrological Region	R		6	
2	(SOIL) type (1-5)	S		Impermeable	
3	Development Size	А		0.0050 ha	
				If development area is 200+ ha a full FEH	
Λ	Mathad of Croopfield Applycic			analysis is recommended to obtain a more	
4	Method of Greenneid Analysis			accurate estimate of greenfield runoff	
				characteristics	
No.	ASV2	Abbreviation	Calculations	Value	
5	Area	А		0.0050 ha	
6	Annual Rainfall	SAAR		629 mm	
7	Soil runoff coefficient	SPR		1.00	
8	Development mean annual peak flow rate	QBAR	1096.30	0.11 l/s	
9	Mean annual peak flow per unit area	QBAR/A	21.93	21.93 l/s/ha	
10	Minimum limit of discharge	Qthrottle		Minimum sizes of an orofice may limit the minimum hydraulic control flow rate. This allows the derivation of an equivalent value of a QBAR/A	
10.1	100 year flow rate per unit area	Qthrottle/A		l/s/ha	
10.2	Equivalent mean annual peak flow per unit area	Qthrottle/3.54	Ą	l/s/ha	
11	1yr, 30 yr and 100yr peak discharge rate of runoff per unit area			Use the larger of the 2 values of item 9 and 10.2 for calculating 11.1 to 11.3	
11.1		Q1yr		18.64 l/s/ha	0.09 l/s
		Q2yr		19.29 l/s/ha	0.10 l/s
		Q5yr		28.07 l/s/ha	0.14 l/s
		Q10yr		35.52 l/s/ha	0.18 l/s
11.2		Q30yr		47.80 l/s/ha	0.24 l/s
11.3		Q100yr		69.94 l/s/ha	0.35 l/s