Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 1101 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	98.300	0.300	0.1	6.3	O K
30 min Summer	98.390	0.390	0.1	8.2	O K
60 min Summer	98.480	0.480	0.1	10.0	O K
120 min Summer	98.580	0.580	0.1	12.1	O K
180 min Summer	98.645	0.645	0.1	13.5	O K
240 min Summer	98.694	0.694	0.1	14.5	O K
360 min Summer	98.775	0.775	0.2	16.2	O K
480 min Summer	98.833	0.833	0.2	17.4	O K
600 min Summer	98.875	0.875	0.2	18.3	O K
720 min Summer	98.905	0.905	0.2	18.9	O K
960 min Summer	98.951	0.951	0.2	19.9	O K
1440 min Summer	98.995	0.995	0.2	20.8	O K
2160 min Summer	99.003	1.003	0.2	21.0	O K
2880 min Summer	98.984	0.984	0.2	20.6	O K
15 min Winter	98.336	0.336	0.1	7.0	O K
30 min Winter	98.437	0.437	0.1	9.1	O K
60 min Winter	98.538	0.538	0.1	11.2	O K
120 min Winter	98.650	0.650	0.1	13.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	146.328	0.0	19
30 min Summer	95.564	0.0	34
60 min Summer	59.290	0.0	64
120 min Summer	36.491	0.0	124
180 min Summer	27.515	0.0	182
240 min Summer	22.628	0.0	242
360 min Summer	17.449	0.0	362
480 min Summer	14.588	0.0	480
600 min Summer	12.697	0.0	600
720 min Summer	11.325	0.0	672
960 min Summer	9.411	0.0	778
1440 min Summer	7.113	0.0	1026
2160 min Summer	5.255	0.0	1432
2880 min Summer	4.192	0.0	1844
15 min Winter	146.328	0.0	19
30 min Winter	95.564	0.0	33
60 min Winter	59.290	0.0	62
120 min Winter	36.491	0.0	122

Summary of Results for 100 year Return Period (+40%)

	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
180	min Winter	98.723	0.723	0.2	15.1	O K
240	min Winter	98.779	0.779	0.2	16.3	O K
360	min Winter	98.870	0.870	0.2	18.2	O K
480	min Winter	98.938	0.938	0.2	19.6	O K
600	min Winter	98.987	0.987	0.2	20.6	O K
720	min Winter	99.023	1.023	0.2	21.4	O K
960	min Winter	99.067	1.067	0.2	22.3	O K
1440	min Winter	99.109	1.109	0.2	23.2	O K
2160	min Winter	99.102	1.102	0.2	23.0	O K
2880	min Winter	99.065	1.065	0.2	22.3	O K

	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
180	min Winter	27.515	0.0	180
240	min Winter	22.628	0.0	238
360	min Winter	17.449	0.0	354
480	min Winter	14.588	0.0	466
600	min Winter	12.697	0.0	578
720	min Winter	11.325	0.0	684
960	min Winter	9.412	0.0	800
1440	min Winter	7.113	0.0	1084
2160	min Winter	5.255	0.0	1536
2880	min Winter	4.192	0.0	1988

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 637028 151111 TR 37028 51111
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	2880
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.023

Time (mins) From:	To:	Area (ha)
0	4	0.023

Model Details

Storage is Online Cover Level (m) 100.000

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.0
Infiltration Coefficient Side (m/hr)	0.05868	Trench Length (m)	11.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	0.95	Cap Volume Depth (m)	1.200
Invert Level (m)	98.000	Cap Infiltration Depth (m)	1.200