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One Little London Chichester Sussex PO19 1PP	Barnham Court Gardener's Hut Roof Water Attenuation	
Date 15.07.2020 File	Designed By vlc Checked By	
Micro Drainage		Source Control W.11.2

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

Storm Duration (mins)	Maximum Control (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	1.9	1.9	8.1607	0.1607	0.0	0 K
30 Summer	1.7	1.7	8.1318	0.1318	0.0	0 K
60 Summer	1.3	1.3	8.0833	0.0833	0.0	0 K
120 Summer	0.8	0.8	8.0578	0.0578	0.0	0 K
180 Summer	0.6	0.6	8.0483	0.0483	0.0	0 K
240 Summer	0.5	0.5	8.0428	0.0427	0.0	0 K
360 Summer	0.4	0.4	8.0353	0.0352	0.0	0 K
480 Summer	0.3	0.3	8.0303	0.0302	0.0	0 K
600 Summer	0.3	0.3	8.0283	0.0282	0.0	0 K
720 Summer	0.2	0.2	8.0263	0.0262	0.0	0 K
960 Summer	0.2	0.2	8.0243	0.0242	0.0	0 K
1440 Summer	0.1	0.1	8.0203	0.0203	0.0	0 K
2160 Summer	0.1	0.1	8.0173	0.0173	0.0	0 K
2880 Summer	0.1	0.1	8.0158	0.0158	0.0	0 K
4320 Summer	0.1	0.1	8.0138	0.0137	0.0	0 K
5760 Summer	0.0	0.0	8.0118	0.0118	0.0	0 K
7200 Summer	0.0	0.0	8.0108	0.0108	0.0	0 K
8640 Summer	0.0	0.0	8.0103	0.0103	0.0	0 K
10080 Summer	0.0	0.0	8.0098	0.0097	0.0	0 K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	131.85	10
30 Summer	88.57	17
60 Summer	56.71	32
120 Summer	35.00	62
180 Summer	25.97	94
240 Summer	20.88	122
360 Summer	15.37	182
480 Summer	12.34	244
600 Summer	10.40	304
720 Summer	9.04	356
960 Summer	7.24	488
1440 Summer	5.28	710
2160 Summer	3.85	1088
2880 Summer	3.07	1396
4320 Summer	2.23	2140
5760 Summer	1.77	2880
7200 Summer	1.48	3568
8640 Summer	1.28	4320
10080 Summer	1.14	4880

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

Storm Duration (mins)	Maximum Control (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Winter	1.9	1.9	8.1603	0.1602	0.0	0 K
30 Winter	1.5	1.5	8.1043	0.1043	0.0	0 K
60 Winter	1.0	1.0	8.0643	0.0643	0.0	0 K
120 Winter	0.6	0.6	8.0483	0.0482	0.0	0 K
180 Winter	0.5	0.5	8.0403	0.0402	0.0	0 K
240 Winter	0.4	0.4	8.0348	0.0347	0.0	0 K
360 Winter	0.3	0.3	8.0283	0.0282	0.0	0 K
480 Winter	0.2	0.2	8.0263	0.0262	0.0	0 K
600 Winter	0.2	0.2	8.0248	0.0247	0.0	0 K
720 Winter	0.2	0.2	8.0233	0.0232	0.0	0 K
960 Winter	0.1	0.1	8.0203	0.0202	0.0	0 K
1440 Winter	0.1	0.1	8.0173	0.0173	0.0	0 K
2160 Winter	0.1	0.1	8.0153	0.0153	0.0	0 K
2880 Winter	0.1	0.1	8.0138	0.0138	0.0	0 K
4320 Winter	0.0	0.0	8.0113	0.0113	0.0	0 K
5760 Winter	0.0	0.0	8.0108	0.0108	0.0	0 K
7200 Winter	0.0	0.0	8.0098	0.0098	0.0	0 K
8640 Winter	0.0	0.0	8.0088	0.0087	0.0	0 K
10080 Winter	0.0	0.0	8.0083	0.0083	0.0	0 K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Winter	131.85	10
30 Winter	88.57	17
60 Winter	56.71	34
120 Winter	35.00	62
180 Winter	25.97	96
240 Winter	20.88	124
360 Winter	15.37	184
480 Winter	12.34	242
600 Winter	10.40	314
720 Winter	9.04	364
960 Winter	7.24	482
1440 Winter	5.28	704
2160 Winter	3.85	1112
2880 Winter	3.07	1368
4320 Winter	2.23	2216
5760 Winter	1.77	2912
7200 Winter	1.48	3576
8640 Winter	1.28	4736
10080 Winter	1.14	4600

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Rainfall Details

Region	ENG+WAL	Shortest Storm (mins)	15
Return Period (years)	100	Longest Storm (mins)	10080
M5-60 (mm)	20.000	Summer Storms	Yes
Ratio-R	0.350	Winter Storms	Yes
Cv (Summer)	0.750	Climate Change %	+40
Cv (Winter)	0.840		

Time / Area Diagram

Total Area (ha) = 0.003

Time	(mins)	Area
from:	to:	(ha)
0	4	0.003

One Little London
Chichester
Sussex PO19 1PP

Barnham Court
Gardener's Hut
Roof Water Attenuation

Date 15.07.2020
File

Designed By vlc
Checked By



Micro Drainage

Source Control W.11.2

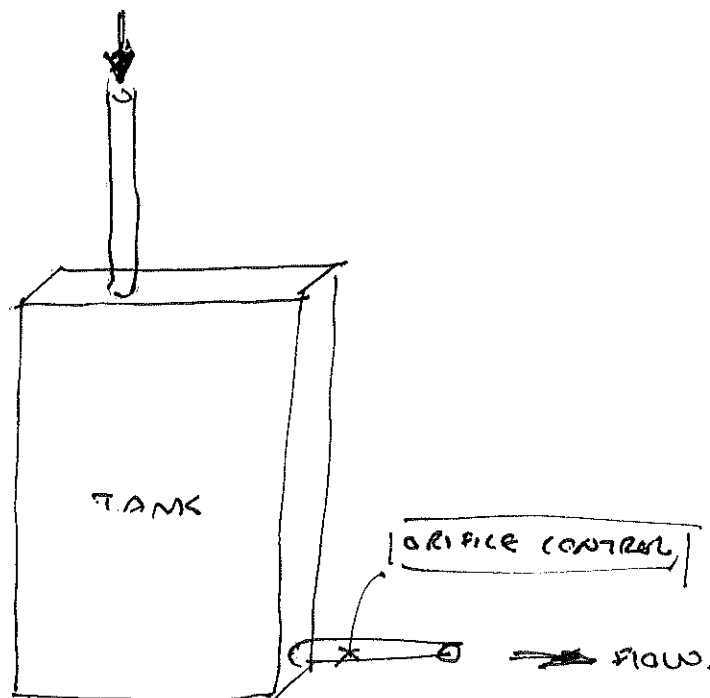
Tank/Pond Details

Invert Level (m) 8.000 Ground Level (m) 10.000

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.00	0.1	2.40	0.1	4.80	0.1	7.20	0.2	9.60	0.2
0.40	0.1	2.80	0.1	5.20	0.1	7.60	0.2	10.00	0.2
0.80	0.1	3.20	0.1	5.60	0.0	8.00	0.2		
1.20	0.1	3.60	0.1	6.00	0.0	8.40	0.2		
1.60	0.1	4.00	0.1	6.40	0.0	8.80	0.2		
2.00	0.1	4.40	0.1	6.80	0.0	9.20	0.2		

Orifice Outflow Control

Diameter (m) 0.050 Invert Level (m) 8.000
Discharge Coefficient 0.600



NOMINAL size : 0.45 x 0.23 x 1.22m

ORIFICE : ϕ 50mm
DC : 0.60

NO TANK
REQUIRED