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66a Church Walk Burgess Hill West Sussex RH15 9AS	38 Heath Drive Existing 1 in 100 year Runoff rates	
Date 14 July 2015 File Existing runoff rates	Designed by JWR Checked by	

Micro Drainage Source Control 2015.1

Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m ³)	Status
15 min Summer	9.070	1.070	42.8	1.2	O K
30 min Summer	8.798	0.798	36.6	1.0	O K
60 min Summer	8.432	0.432	26.1	0.6	O K
120 min Summer	8.211	0.211	16.9	0.4	O K
180 min Summer	8.171	0.171	12.6	0.3	O K
240 min Summer	8.148	0.148	10.1	0.3	O K
360 min Summer	8.122	0.122	7.3	0.2	O K
480 min Summer	8.104	0.104	5.8	0.2	O K
600 min Summer	8.092	0.092	4.9	0.1	O K
720 min Summer	8.084	0.084	4.2	0.1	O K
960 min Summer	8.076	0.076	3.3	0.1	O K
1440 min Summer	8.065	0.065	2.4	0.1	O K
2160 min Summer	8.054	0.054	1.7	0.1	O K
2880 min Summer	8.049	0.049	1.4	0.1	O K
4320 min Summer	8.041	0.041	1.0	0.0	O K
5760 min Summer	8.036	0.036	0.8	0.0	O K
7200 min Summer	8.033	0.033	0.7	0.0	O K
8640 min Summer	8.031	0.031	0.6	0.0	O K
10080 min Summer	8.028	0.028	0.5	0.0	O K
15 min Winter	9.076	1.076	42.9	1.3	O K
30 min Winter	8.628	0.628	32.2	0.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Summer	107.097	0.0	17.1	10
30 min Summer	69.257	0.0	22.1	18
60 min Summer	42.578	0.0	27.1	32
120 min Summer	25.271	0.0	32.2	62
180 min Summer	18.379	0.0	35.2	92
240 min Summer	14.580	0.0	37.2	122
360 min Summer	10.522	0.0	40.2	182
480 min Summer	8.340	0.0	42.5	242
600 min Summer	6.960	0.0	44.4	300
720 min Summer	6.001	0.0	45.9	360
960 min Summer	4.747	0.0	48.4	488
1440 min Summer	3.406	0.0	52.1	720
2160 min Summer	2.441	0.0	56.0	1080
2880 min Summer	1.925	0.0	58.9	1432
4320 min Summer	1.376	0.0	63.2	2148
5760 min Summer	1.083	0.0	66.3	2920
7200 min Summer	0.900	0.0	68.8	3592
8640 min Summer	0.773	0.0	70.9	4360
10080 min Summer	0.679	0.0	72.8	4992
15 min Winter	107.097	0.0	19.1	10
30 min Winter	69.257	0.0	24.7	18


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Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m ³)	Status
60 min Winter	8.294	0.294	20.9	0.5	O K
120 min Winter	8.170	0.170	12.6	0.3	O K
180 min Winter	8.140	0.140	9.2	0.2	O K
240 min Winter	8.122	0.122	7.3	0.2	O K
360 min Winter	8.097	0.097	5.3	0.1	O K
480 min Winter	8.085	0.085	4.2	0.1	O K
600 min Winter	8.078	0.078	3.5	0.1	O K
720 min Winter	8.073	0.073	3.0	0.1	O K
960 min Winter	8.066	0.066	2.4	0.1	O K
1440 min Winter	8.055	0.055	1.7	0.1	O K
2160 min Winter	8.047	0.047	1.3	0.1	O K
2880 min Winter	8.041	0.041	1.0	0.0	O K
4320 min Winter	8.035	0.035	0.7	0.0	O K
5760 min Winter	8.031	0.031	0.6	0.0	O K
7200 min Winter	8.028	0.028	0.5	0.0	O K
8640 min Winter	8.026	0.026	0.4	0.0	O K
10080 min Winter	8.024	0.024	0.4	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
60 min Winter	42.578	0.0	30.4	32
120 min Winter	25.271	0.0	36.1	62
180 min Winter	18.379	0.0	39.4	92
240 min Winter	14.580	0.0	41.6	122
360 min Winter	10.522	0.0	45.1	182
480 min Winter	8.340	0.0	47.6	246
600 min Winter	6.960	0.0	49.7	302
720 min Winter	6.001	0.0	51.4	360
960 min Winter	4.747	0.0	54.2	484
1440 min Winter	3.406	0.0	58.4	726
2160 min Winter	2.441	0.0	62.7	1072
2880 min Winter	1.925	0.0	66.0	1424
4320 min Winter	1.376	0.0	70.7	2224
5760 min Winter	1.083	0.0	74.3	2912
7200 min Winter	0.900	0.0	77.1	3680
8640 min Winter	0.773	0.0	79.4	4264
10080 min Winter	0.679	0.0	81.5	5104

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	21.000	Shortest Storm (mins)	15
Ratio R	0.434	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.085

Time (mins)	Area
From:	To: (ha)
0	4 0.085