

Camden Mill
Lower Bristol Road
Bath



Date 25/03/2024 15:56
File Catchment 6.SRCX

Designed by dwright
Checked by

Innovyze

Source Control 2020.1.3

Summary of Results for 2 year Return Period

Half Drain Time : 36 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.323	0.323	62.3	178.7	O K
30 min Summer	8.374	0.374	65.6	210.1	O K
60 min Summer	8.382	0.382	66.1	215.3	O K
120 min Summer	8.412	0.412	68.1	234.2	O K
180 min Summer	8.403	0.403	67.5	228.4	O K
240 min Summer	8.382	0.382	66.1	215.0	O K
360 min Summer	8.328	0.328	62.6	181.4	O K
480 min Summer	8.272	0.272	59.0	148.3	O K
600 min Summer	8.223	0.223	55.8	119.4	O K
720 min Summer	8.180	0.180	53.1	95.1	O K
960 min Summer	8.113	0.113	48.8	58.7	O K
1440 min Summer	8.049	0.049	44.2	25.1	O K
2160 min Summer	8.036	0.036	32.2	18.5	O K
2880 min Summer	8.030	0.030	26.3	14.9	O K
4320 min Summer	8.022	0.022	19.5	11.1	O K
5760 min Summer	8.018	0.018	16.0	9.1	O K
7200 min Summer	8.016	0.016	14.2	8.1	O K
8640 min Summer	8.014	0.014	12.4	7.2	O K
10080 min Summer	8.013	0.013	11.5	6.6	O K
15 min Winter	8.365	0.365	65.0	204.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	35.347	0.0	22
30 min Summer	22.544	0.0	32
60 min Summer	13.912	0.0	50
120 min Summer	9.465	0.0	84
180 min Summer	7.351	0.0	118
240 min Summer	6.071	0.0	152
360 min Summer	4.554	0.0	218
480 min Summer	3.668	0.0	280
600 min Summer	3.087	0.0	340
720 min Summer	2.676	0.0	400
960 min Summer	2.130	0.0	516
1440 min Summer	1.537	0.0	736
2160 min Summer	1.116	0.0	1100
2880 min Summer	0.895	0.0	1452
4320 min Summer	0.667	0.0	2192
5760 min Summer	0.549	0.0	2856
7200 min Summer	0.476	0.0	3648
8640 min Summer	0.427	0.0	4352
10080 min Summer	0.391	0.0	5136
15 min Winter	35.347	0.0	22

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	8.424	0.424	68.9	241.7	O K
60 min Winter	8.433	0.433	69.5	247.8	O K
120 min Winter	8.457	0.457	71.0	263.1	O K
180 min Winter	8.433	0.433	69.5	247.6	O K
240 min Winter	8.396	0.396	67.1	224.0	O K
360 min Winter	8.313	0.313	61.6	172.8	O K
480 min Winter	8.236	0.236	56.6	126.8	O K
600 min Winter	8.169	0.169	52.4	89.1	O K
720 min Winter	8.114	0.114	48.9	59.3	O K
960 min Winter	8.050	0.050	44.6	25.3	O K
1440 min Winter	8.037	0.037	32.6	18.5	O K
2160 min Winter	8.027	0.027	23.6	13.4	O K
2880 min Winter	8.022	0.022	19.1	10.8	O K
4320 min Winter	8.016	0.016	14.2	8.1	O K
5760 min Winter	8.013	0.013	11.5	6.7	O K
7200 min Winter	8.012	0.012	10.2	5.8	O K
8640 min Winter	8.011	0.011	9.4	5.3	O K
10080 min Winter	8.010	0.010	8.5	4.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	22.544	0.0	33
60 min Winter	13.912	0.0	54
120 min Winter	9.465	0.0	90
180 min Winter	7.351	0.0	128
240 min Winter	6.071	0.0	162
360 min Winter	4.554	0.0	230
480 min Winter	3.668	0.0	292
600 min Winter	3.087	0.0	354
720 min Winter	2.676	0.0	410
960 min Winter	2.130	0.0	494
1440 min Winter	1.537	0.0	740
2160 min Winter	1.116	0.0	1088
2880 min Winter	0.895	0.0	1468
4320 min Winter	0.667	0.0	2200
5760 min Winter	0.549	0.0	2936
7200 min Winter	0.476	0.0	3568
8640 min Winter	0.427	0.0	4392
10080 min Winter	0.391	0.0	4984

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	2
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+0

Time Area Diagram

Total Area (ha) 3.000

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 1.000	4	8 1.000	8	12 1.000

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	500.0	2.000	1335.2

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Summary of Results for 10 year Return Period (+10%)

Half Drain Time : 58 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.623	0.623	82.1	377.0	O K
30 min Summer	8.732	0.732	89.6	457.7	O K
60 min Summer	8.774	0.774	92.4	489.6	O K
120 min Summer	8.793	0.793	93.8	504.7	O K
180 min Summer	8.771	0.771	92.2	487.1	O K
240 min Summer	8.738	0.738	90.0	462.2	O K
360 min Summer	8.665	0.665	85.0	407.3	O K
480 min Summer	8.591	0.591	80.0	354.2	O K
600 min Summer	8.522	0.522	75.4	306.8	O K
720 min Summer	8.460	0.460	71.3	265.3	O K
960 min Summer	8.354	0.354	64.3	197.6	O K
1440 min Summer	8.200	0.200	54.4	106.6	O K
2160 min Summer	8.073	0.073	46.3	37.5	O K
2880 min Summer	8.045	0.045	40.0	22.6	O K
4320 min Summer	8.033	0.033	29.0	16.5	O K
5760 min Summer	8.027	0.027	23.6	13.4	O K
7200 min Summer	8.023	0.023	20.0	11.5	O K
8640 min Summer	8.020	0.020	17.7	10.2	O K
10080 min Summer	8.019	0.019	16.4	9.3	O K
15 min Winter	8.694	0.694	87.0	429.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	68.124	0.0	23
30 min Summer	43.927	0.0	34
60 min Summer	27.024	0.0	54
120 min Summer	16.992	0.0	88
180 min Summer	12.754	0.0	124
240 min Summer	10.327	0.0	158
360 min Summer	7.576	0.0	224
480 min Summer	6.028	0.0	290
600 min Summer	5.030	0.0	352
720 min Summer	4.329	0.0	414
960 min Summer	3.405	0.0	538
1440 min Summer	2.420	0.0	774
2160 min Summer	1.727	0.0	1112
2880 min Summer	1.367	0.0	1460
4320 min Summer	0.996	0.0	2172
5760 min Summer	0.805	0.0	2904
7200 min Summer	0.688	0.0	3672
8640 min Summer	0.609	0.0	4384
10080 min Summer	0.552	0.0	5112
15 min Winter	68.124	0.0	23

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Summary of Results for 10 year Return Period (+10%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	8.817	0.817	95.4	523.1	O K
60 min Winter	8.869	0.869	99.0	565.1	O K
120 min Winter	8.885	0.885	100.1	578.1	O K
180 min Winter	8.847	0.847	97.5	547.7	O K
240 min Winter	8.797	0.797	94.0	507.4	O K
360 min Winter	8.689	0.689	86.6	424.9	O K
480 min Winter	8.585	0.585	79.6	350.2	O K
600 min Winter	8.492	0.492	73.4	286.6	O K
720 min Winter	8.410	0.410	68.0	233.0	O K
960 min Winter	8.275	0.275	59.2	149.7	O K
1440 min Winter	8.094	0.094	47.6	48.5	O K
2160 min Winter	8.041	0.041	36.3	20.7	O K
2880 min Winter	8.033	0.033	29.0	16.4	O K
4320 min Winter	8.024	0.024	21.3	12.1	O K
5760 min Winter	8.020	0.020	17.3	9.8	O K
7200 min Winter	8.017	0.017	14.6	8.4	O K
8640 min Winter	8.015	0.015	12.9	7.4	O K
10080 min Winter	8.014	0.014	12.0	6.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	43.927	0.0	34
60 min Winter	27.024	0.0	58
120 min Winter	16.992	0.0	94
180 min Winter	12.754	0.0	132
240 min Winter	10.327	0.0	168
360 min Winter	7.576	0.0	238
480 min Winter	6.028	0.0	306
600 min Winter	5.030	0.0	370
720 min Winter	4.329	0.0	434
960 min Winter	3.405	0.0	556
1440 min Winter	2.420	0.0	782
2160 min Winter	1.727	0.0	1104
2880 min Winter	1.367	0.0	1452
4320 min Winter	0.996	0.0	2192
5760 min Winter	0.805	0.0	2912
7200 min Winter	0.688	0.0	3584
8640 min Winter	0.609	0.0	4336
10080 min Winter	0.552	0.0	4992

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+10

Time Area Diagram

Total Area (ha) 3.000

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 1.000	4	8 1.000	8	12 1.000

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	500.0	2.000	1335.2

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Summary of Results for 30 year Return Period (+20%)

Half Drain Time : 72 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.872	0.872	99.3	568.0	O K
30 min Summer	9.029	1.029	110.3	700.5	O K
60 min Summer	9.108	1.108	116.0	771.6	O K
120 min Summer	9.126	1.126	117.2	787.8	O K
180 min Summer	9.100	1.100	115.4	764.3	O K
240 min Summer	9.060	1.060	112.5	728.4	O K
360 min Summer	8.973	0.973	106.3	652.1	O K
480 min Summer	8.888	0.888	100.3	580.5	O K
600 min Summer	8.808	0.808	94.8	516.5	O K
720 min Summer	8.735	0.735	89.8	459.9	O K
960 min Summer	8.607	0.607	81.1	365.9	O K
1440 min Summer	8.412	0.412	68.1	234.1	O K
2160 min Summer	8.220	0.220	55.6	117.7	O K
2880 min Summer	8.104	0.104	48.2	53.6	O K
4320 min Summer	8.043	0.043	38.6	21.8	O K
5760 min Summer	8.035	0.035	30.8	17.5	O K
7200 min Summer	8.029	0.029	25.8	14.6	O K
8640 min Summer	8.026	0.026	22.7	12.9	O K
10080 min Summer	8.023	0.023	20.4	11.7	O K
15 min Winter	8.964	0.964	105.7	644.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	99.129	0.0	23
30 min Summer	64.350	0.0	35
60 min Summer	39.805	0.0	58
120 min Summer	24.311	0.0	92
180 min Summer	18.051	0.0	126
240 min Summer	14.526	0.0	160
360 min Summer	10.577	0.0	228
480 min Summer	8.380	0.0	294
600 min Summer	6.971	0.0	358
720 min Summer	5.985	0.0	422
960 min Summer	4.690	0.0	546
1440 min Summer	3.312	0.0	788
2160 min Summer	2.338	0.0	1148
2880 min Summer	1.833	0.0	1500
4320 min Summer	1.315	0.0	2200
5760 min Summer	1.049	0.0	2864
7200 min Summer	0.888	0.0	3560
8640 min Summer	0.780	0.0	4408
10080 min Summer	0.701	0.0	5040
15 min Winter	99.129	0.0	23

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Summary of Results for 30 year Return Period (+20%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	9.137	1.137	118.0	798.1	O K
60 min Winter	9.232	1.232	124.9	888.0	O K
120 min Winter	9.247	1.247	126.0	902.7	O K
180 min Winter	9.210	1.210	123.3	866.9	O K
240 min Winter	9.153	1.153	119.2	812.9	O K
360 min Winter	9.027	1.027	110.1	698.8	O K
480 min Winter	8.909	0.909	101.8	597.8	O K
600 min Winter	8.801	0.801	94.3	510.6	O K
720 min Winter	8.704	0.704	87.6	436.1	O K
960 min Winter	8.539	0.539	76.5	318.0	O K
1440 min Winter	8.300	0.300	60.8	164.5	O K
2160 min Winter	8.087	0.087	47.2	44.5	O K
2880 min Winter	8.043	0.043	38.6	21.9	O K
4320 min Winter	8.032	0.032	28.1	15.9	O K
5760 min Winter	8.025	0.025	22.2	12.7	O K
7200 min Winter	8.022	0.022	19.1	10.9	O K
8640 min Winter	8.019	0.019	16.4	9.5	O K
10080 min Winter	8.017	0.017	15.1	8.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	64.350	0.0	35
60 min Winter	39.805	0.0	60
120 min Winter	24.311	0.0	96
180 min Winter	18.051	0.0	134
240 min Winter	14.526	0.0	172
360 min Winter	10.577	0.0	244
480 min Winter	8.380	0.0	312
600 min Winter	6.971	0.0	378
720 min Winter	5.985	0.0	442
960 min Winter	4.690	0.0	568
1440 min Winter	3.312	0.0	812
2160 min Winter	2.338	0.0	1152
2880 min Winter	1.833	0.0	1468
4320 min Winter	1.315	0.0	2168
5760 min Winter	1.049	0.0	2920
7200 min Winter	0.888	0.0	3648
8640 min Winter	0.780	0.0	4408
10080 min Winter	0.701	0.0	4984

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	30
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+20

Time Area Diagram

Total Area (ha) 3.000

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	1.000	4 8	1.000	8 12	1.000

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	500.0	2.000	1335.2

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

Half Drain Time : 90 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.222	1.222	124.2	878.7	O K
30 min Summer	9.444	1.444	140.5	1103.2	O K
60 min Summer	9.577	1.577	150.6	1248.7	O K
120 min Summer	9.604	1.604	152.6	1279.3	O K
180 min Summer	9.588	1.588	151.3	1260.9	O K
240 min Summer	9.552	1.552	148.6	1220.2	O K
360 min Summer	9.457	1.457	141.5	1116.5	O K
480 min Summer	9.360	1.360	134.3	1014.9	O K
600 min Summer	9.268	1.268	127.5	923.1	O K
720 min Summer	9.183	1.183	121.3	840.8	O K
960 min Summer	9.029	1.029	110.3	700.9	O K
1440 min Summer	8.785	0.785	93.2	498.0	O K
2160 min Summer	8.525	0.525	75.6	308.7	O K
2880 min Summer	8.348	0.348	63.9	193.9	O K
4320 min Summer	8.132	0.132	50.0	68.9	O K
5760 min Summer	8.048	0.048	43.2	24.4	O K
7200 min Summer	8.040	0.040	35.8	20.4	O K
8640 min Summer	8.035	0.035	31.3	17.8	O K
10080 min Summer	8.032	0.032	28.1	16.0	O K
15 min Winter	9.340	1.340	132.8	995.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	149.151	0.0	24
30 min Summer	97.695	0.0	36
60 min Summer	60.761	0.0	62
120 min Summer	36.541	0.0	94
180 min Summer	27.028	0.0	128
240 min Summer	21.730	0.0	164
360 min Summer	15.828	0.0	232
480 min Summer	12.545	0.0	298
600 min Summer	10.431	0.0	364
720 min Summer	8.949	0.0	430
960 min Summer	6.994	0.0	556
1440 min Summer	4.908	0.0	800
2160 min Summer	3.428	0.0	1168
2880 min Summer	2.661	0.0	1528
4320 min Summer	1.875	0.0	2216
5760 min Summer	1.473	0.0	2920
7200 min Summer	1.231	0.0	3600
8640 min Summer	1.070	0.0	4336
10080 min Summer	0.954	0.0	5048
15 min Winter	149.151	0.0	24

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	9.582	1.582	150.9	1253.6	O K
60 min Winter	9.733	1.733	162.4	1429.7	Flood Risk
120 min Winter	9.761	1.761	164.6	1463.1	Flood Risk
180 min Winter	9.735	1.735	162.6	1431.9	Flood Risk
240 min Winter	9.684	1.684	158.7	1371.2	O K
360 min Winter	9.553	1.553	148.7	1222.1	O K
480 min Winter	9.418	1.418	138.6	1075.1	O K
600 min Winter	9.293	1.293	129.4	947.9	O K
720 min Winter	9.179	1.179	121.1	837.7	O K
960 min Winter	8.980	0.980	106.8	657.7	O K
1440 min Winter	8.674	0.674	85.6	414.0	O K
2160 min Winter	8.372	0.372	65.5	208.6	O K
2880 min Winter	8.181	0.181	53.1	95.5	O K
4320 min Winter	8.044	0.044	39.5	22.4	O K
5760 min Winter	8.035	0.035	31.3	17.7	O K
7200 min Winter	8.030	0.030	26.3	14.9	O K
8640 min Winter	8.026	0.026	22.7	13.0	O K
10080 min Winter	8.023	0.023	20.4	11.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	97.695	0.0	36
60 min Winter	60.761	0.0	62
120 min Winter	36.541	0.0	100
180 min Winter	27.028	0.0	138
240 min Winter	21.730	0.0	176
360 min Winter	15.828	0.0	248
480 min Winter	12.545	0.0	318
600 min Winter	10.431	0.0	386
720 min Winter	8.949	0.0	454
960 min Winter	6.994	0.0	582
1440 min Winter	4.908	0.0	830
2160 min Winter	3.428	0.0	1192
2880 min Winter	2.661	0.0	1536
4320 min Winter	1.875	0.0	2136
5760 min Winter	1.473	0.0	2856
7200 min Winter	1.231	0.0	3592
8640 min Winter	1.070	0.0	4384
10080 min Winter	0.954	0.0	5024

Camden Mill
 Lower Bristol Road
 Bath

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 3.000

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 1.000	4	8 1.000	8	12 1.000

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	500.0	2.000	1335.2