

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

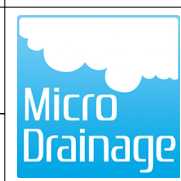
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m ³)	Status
15 min Summer	8.502	0.402	3.5	2.5	FLOOD
30 min Summer	8.502	0.402	3.5	2.5	FLOOD
60 min Summer	8.501	0.401	3.5	2.0	FLOOD
120 min Summer	8.500	0.400	3.5	1.0	FLOOD
180 min Summer	8.388	0.288	2.9	0.6	Flood Risk
240 min Summer	8.316	0.216	2.5	0.4	Flood Risk
360 min Summer	8.235	0.135	1.9	0.2	Flood Risk
480 min Summer	8.195	0.095	1.5	0.1	O K
600 min Summer	8.174	0.074	1.2	0.1	O K
720 min Summer	8.167	0.067	1.1	0.1	O K
960 min Summer	8.157	0.057	0.8	0.1	O K
1440 min Summer	8.146	0.046	0.6	0.0	O K
2160 min Summer	8.137	0.037	0.4	0.0	O K
2880 min Summer	8.132	0.032	0.3	0.0	O K
4320 min Summer	8.127	0.027	0.3	0.0	O K
5760 min Summer	8.125	0.025	0.2	0.0	O K
7200 min Summer	8.123	0.023	0.2	0.0	O K
8640 min Summer	8.122	0.022	0.2	0.0	O K
10080 min Summer	8.121	0.021	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Summer	154.424	1.6	4.6	12
30 min Summer	101.444	1.6	6.1	20
60 min Summer	63.462	1.1	7.6	38
120 min Summer	36.383	0.0	8.7	66
180 min Summer	26.052	0.0	9.4	96
240 min Summer	20.493	0.0	9.8	124
360 min Summer	14.560	0.0	10.5	184
480 min Summer	11.414	0.0	11.0	244
600 min Summer	9.451	0.0	11.3	306
720 min Summer	8.102	0.0	11.7	362
960 min Summer	6.362	0.0	12.2	476
1440 min Summer	4.542	0.0	13.1	722
2160 min Summer	3.265	0.0	14.1	1068
2880 min Summer	2.598	0.0	15.0	1456
4320 min Summer	1.907	0.0	16.5	2156
5760 min Summer	1.547	0.0	17.8	2840
7200 min Summer	1.325	0.0	19.1	3608
8640 min Summer	1.173	0.0	20.3	4280
10080 min Summer	1.063	0.0	21.4	5128

2nd Floor, 296 St Vincent Street
Glasgow
G2 5RU

Date 01/02/2023 17:07
File 4488 SC SE 01.SRCX

Designed by Alastair Tills
Checked by



Micro Drainage Source Control 2020.1.3

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

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m ³)	Status
15 min Winter	8.502	0.402	3.5	2.9	FLOOD
30 min Winter	8.502	0.402	3.5	2.8	FLOOD
60 min Winter	8.501	0.401	3.5	2.0	FLOOD
120 min Winter	8.426	0.326	3.1	0.7	Flood Risk
180 min Winter	8.304	0.204	2.4	0.3	Flood Risk
240 min Winter	8.241	0.141	1.9	0.2	Flood Risk
360 min Winter	8.185	0.085	1.4	0.1	O K
480 min Winter	8.167	0.067	1.1	0.1	O K
600 min Winter	8.159	0.059	0.9	0.1	O K
720 min Winter	8.154	0.054	0.8	0.1	O K
960 min Winter	8.146	0.046	0.6	0.0	O K
1440 min Winter	8.137	0.037	0.4	0.0	O K
2160 min Winter	8.130	0.030	0.3	0.0	O K
2880 min Winter	8.127	0.027	0.3	0.0	O K
4320 min Winter	8.124	0.024	0.2	0.0	O K
5760 min Winter	8.121	0.021	0.2	0.0	O K
7200 min Winter	8.120	0.020	0.1	0.0	O K
8640 min Winter	8.118	0.018	0.1	0.0	O K
10080 min Winter	8.118	0.018	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Winter	154.424	1.9	5.2	13
30 min Winter	101.444	1.9	6.8	22
60 min Winter	63.462	1.0	8.5	40
120 min Winter	36.383	0.0	9.8	68
180 min Winter	26.052	0.0	10.5	96
240 min Winter	20.493	0.0	11.0	124
360 min Winter	14.560	0.0	11.7	184
480 min Winter	11.414	0.0	12.3	240
600 min Winter	9.451	0.0	12.7	304
720 min Winter	8.102	0.0	13.1	358
960 min Winter	6.362	0.0	13.7	474
1440 min Winter	4.542	0.0	14.7	730
2160 min Winter	3.265	0.0	15.8	1056
2880 min Winter	2.598	0.0	16.8	1392
4320 min Winter	1.907	0.0	18.5	2160
5760 min Winter	1.547	0.0	20.0	2864
7200 min Winter	1.325	0.0	21.4	3568
8640 min Winter	1.173	0.0	22.7	4464
10080 min Winter	1.063	0.0	24.0	4960

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Micro Drainage	Source Control 2020.1.3
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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 460581 451568 SE 60581 51568
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)
0	2 0.016

Stuart McTaggart Consulting Engineers		Page 4
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Model Details

Storage is Online Cover Level (m) 8.500

Pipe Structure

Diameter (m) 0.350 Length (m) 23.300
Slope (1:X) 25.000 Invert Level (m) 8.100

Orifice Outflow Control

Diameter (m) 0.052 Discharge Coefficient 0.600 Invert Level (m) 8.100