



Reuby & Stagg Ltd		Page 1
Dewey House 55 High Street Ringwood BH24 1AE	Chequersfield Soakaway 2	
Date 28.02.2019 File SA02 TESTED RESUL...	Designed By rbarclay Checked By	
Micro Drainage	Source Control W.12.4	

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

Half Drain Time : 3 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Σ Outflow (l/s)	Max Volume (m ³)	Status
15 min Summer	78.800	0.500	11.9	0.0	11.9	2.7	O K
30 min Summer	78.793	0.493	11.8	0.0	11.8	2.7	O K
60 min Summer	78.660	0.360	10.6	0.0	10.6	1.9	O K
120 min Summer	78.436	0.136	8.5	0.0	8.5	0.7	O K
180 min Summer	78.347	0.047	7.3	0.0	7.3	0.3	O K
240 min Summer	78.339	0.039	6.0	0.0	6.0	0.2	O K
360 min Summer	78.329	0.029	4.4	0.0	4.4	0.2	O K
480 min Summer	78.323	0.023	3.6	0.0	3.6	0.1	O K
600 min Summer	78.320	0.020	3.1	0.0	3.1	0.1	O K
720 min Summer	78.317	0.017	2.7	0.0	2.7	0.1	O K
960 min Summer	78.314	0.014	2.1	0.0	2.1	0.1	O K
1440 min Summer	78.310	0.010	1.6	0.0	1.6	0.1	O K
2160 min Summer	78.307	0.007	1.1	0.0	1.1	0.0	O K
2880 min Summer	78.306	0.006	0.9	0.0	0.9	0.0	O K
4320 min Summer	78.304	0.004	0.7	0.0	0.7	0.0	O K
5760 min Summer	78.304	0.004	0.6	0.0	0.6	0.0	O K
7200 min Summer	78.303	0.003	0.5	0.0	0.5	0.0	O K
8640 min Summer	78.303	0.003	0.4	0.0	0.4	0.0	O K

Storm Event	Rain (mm/hr)	Overflow Volume (m ³)	Time-Peak (mins)
15 min Summer	138.153	0.0	15
30 min Summer	90.705	0.0	23
60 min Summer	56.713	0.0	38
120 min Summer	34.246	0.0	68
180 min Summer	25.149	0.0	94
240 min Summer	20.078	0.0	126
360 min Summer	14.585	0.0	184
480 min Summer	11.622	0.0	246
600 min Summer	9.738	0.0	308
720 min Summer	8.424	0.0	364
960 min Summer	6.697	0.0	486
1440 min Summer	4.839	0.0	724
2160 min Summer	3.490	0.0	1064
2880 min Summer	2.766	0.0	1428
4320 min Summer	1.989	0.0	2116
5760 min Summer	1.573	0.0	2944
7200 min Summer	1.311	0.0	3656
8640 min Summer	1.129	0.0	4176

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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m ³)	Status
10080 min Summer	78.302	0.002	0.3	0.0	0.3	0.0	O K
15 min Winter	78.883	0.583	12.7	0.0	12.7	3.1	O K
30 min Winter	78.827	0.527	12.1	0.0	12.1	2.8	O K
60 min Winter	78.599	0.299	10.0	0.0	10.0	1.6	O K
120 min Winter	78.349	0.049	7.5	0.0	7.5	0.3	O K
180 min Winter	78.336	0.036	5.6	0.0	5.6	0.2	O K
240 min Winter	78.329	0.029	4.5	0.0	4.5	0.2	O K
360 min Winter	78.321	0.021	3.3	0.0	3.3	0.1	O K
480 min Winter	78.317	0.017	2.7	0.0	2.7	0.1	O K
600 min Winter	78.314	0.014	2.2	0.0	2.2	0.1	O K
720 min Winter	78.312	0.012	1.9	0.0	1.9	0.1	O K
960 min Winter	78.310	0.010	1.6	0.0	1.6	0.1	O K
1440 min Winter	78.307	0.007	1.1	0.0	1.1	0.0	O K
2160 min Winter	78.305	0.005	0.8	0.0	0.8	0.0	O K
2880 min Winter	78.304	0.004	0.7	0.0	0.7	0.0	O K
4320 min Winter	78.303	0.003	0.5	0.0	0.5	0.0	O K
5760 min Winter	78.303	0.003	0.5	0.0	0.5	0.0	O K
7200 min Winter	78.303	0.003	0.4	0.0	0.4	0.0	O K
8640 min Winter	78.302	0.002	0.3	0.0	0.3	0.0	O K

Storm Event	Rain (mm/hr)	Overflow Volume (m ³)	Time-Peak (mins)
10080 min Summer	0.994	0.0	5168
15 min Winter	138.153	0.0	15
30 min Winter	90.705	0.0	23
60 min Winter	56.713	0.0	38
120 min Winter	34.246	0.0	64
180 min Winter	25.149	0.0	94
240 min Winter	20.078	0.0	120
360 min Winter	14.585	0.0	186
480 min Winter	11.622	0.0	244
600 min Winter	9.738	0.0	318
720 min Winter	8.424	0.0	370
960 min Winter	6.697	0.0	484
1440 min Winter	4.839	0.0	744
2160 min Winter	3.490	0.0	1096
2880 min Winter	2.766	0.0	1372
4320 min Winter	1.989	0.0	2136
5760 min Winter	1.573	0.0	2432
7200 min Winter	1.311	0.0	3472
8640 min Winter	1.129	0.0	4496

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55 High Street
Ringwood BH24 1AE

Chequersfield
Soakaway 2



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Micro Drainage

Source Control W.12.4

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
10080 min Winter	78.302	0.002	0.3	0.0	0.3	0.0	O K

Storm Event	Rain (mm/hr)	Overflow Volume (m³)	Time-Peak (mins)
10080 min Winter	0.994	0.0	4664

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Model Details

Storage is Online Cover Level (m) 80.800

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	2.64000	Ring Diameter (m)	2.10
Infiltration Coefficient Side (m/hr)	2.64000	Pit Multiplier	1.5
Safety Factor	1.0	Number Required	1
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	78.300	Cap Infiltration Depth (m)	0.000

Weir Overflow Control

Discharge Coef 0.544 Width (m) 1.000 Invert Level (m) 80.340