

Reuby & Stagg Ltd		Page 1
Dewey House 55 High Street Ringwood BH24 1AE	Rustington Convalescent... Block D1-D8 Reuby & Stagg 10379	
Date 01/10/2018 File 10379 Block D1-D8...	Designed By PJ Checked By	
Micro Drainage		Source Control W.12.4

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

Half Drain Time : 656 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	3.014	0.154	0.4	14.4	O K
30 min Summer	3.069	0.209	0.4	19.4	O K
60 min Summer	3.124	0.264	0.5	24.6	O K
120 min Summer	3.181	0.321	0.5	29.9	O K
180 min Summer	3.198	0.338	0.5	31.4	O K
240 min Summer	3.221	0.361	0.6	33.7	O K
360 min Summer	3.234	0.374	0.6	34.9	O K
480 min Summer	3.238	0.378	0.6	35.2	O K
600 min Summer	3.239	0.379	0.6	35.3	O K
720 min Summer	3.239	0.379	0.6	35.3	O K
960 min Summer	3.236	0.376	0.6	35.0	O K
1440 min Summer	3.223	0.363	0.6	33.8	O K
2160 min Summer	3.200	0.340	0.5	31.6	O K
2880 min Summer	3.176	0.316	0.5	29.4	O K
4320 min Summer	3.134	0.274	0.5	25.5	O K
5760 min Summer	3.098	0.238	0.4	22.1	O K
7200 min Summer	3.067	0.207	0.4	19.3	O K
8640 min Summer	3.042	0.182	0.4	16.9	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	124.633	27
30 min Summer	83.789	40
60 min Summer	53.779	70
120 min Summer	33.337	128
180 min Summer	24.832	184
240 min Summer	20.006	244
360 min Summer	14.706	362
480 min Summer	11.818	448
600 min Summer	9.966	504
720 min Summer	8.665	564
960 min Summer	6.943	692
1440 min Summer	5.071	970
2160 min Summer	3.696	1388
2880 min Summer	2.949	1792
4320 min Summer	2.142	2596
5760 min Summer	1.705	3360
7200 min Summer	1.427	4112
8640 min Summer	1.235	4848

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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 (m³)	Status
10080 min Summer	3.020	0.160	0.4	14.9	O K
15 min Winter	3.036	0.176	0.4	16.4	O K
30 min Winter	3.096	0.236	0.4	21.9	O K
60 min Winter	3.160	0.300	0.5	27.9	O K
120 min Winter	3.221	0.361	0.6	33.6	O K
180 min Winter	3.252	0.392	0.6	36.5	O K
240 min Winter	3.271	0.411	0.6	38.1	O K
360 min Winter	3.303	0.443	0.6	39.8	O K
480 min Winter	3.338	0.478	0.6	40.3	O K
600 min Winter	3.334	0.474	0.6	40.3	O K
720 min Winter	3.319	0.459	0.6	40.1	O K
960 min Winter	3.301	0.441	0.6	39.7	O K
1440 min Winter	3.268	0.408	0.6	37.9	O K
2160 min Winter	3.232	0.372	0.6	34.7	O K
2880 min Winter	3.198	0.338	0.5	31.4	O K
4320 min Winter	3.137	0.277	0.5	25.8	O K
5760 min Winter	3.088	0.228	0.4	21.2	O K
7200 min Winter	3.048	0.188	0.4	17.5	O K
8640 min Winter	3.015	0.155	0.4	14.4	O K
Storm Event	Rain (mm/hr)		Time-Peak (mins)		
10080 min Summer	1.093		5560		
15 min Winter	124.633		27		
30 min Winter	83.789		40		
60 min Winter	53.779		68		
120 min Winter	33.337		126		
180 min Winter	24.832		182		
240 min Winter	20.006		240		
360 min Winter	14.706		352		
480 min Winter	11.818		460		
600 min Winter	9.966		558		
720 min Winter	8.665		590		
960 min Winter	6.943		738		
1440 min Winter	5.071		1044		
2160 min Winter	3.696		1496		
2880 min Winter	2.949		1932		
4320 min Winter	2.142		2764		
5760 min Winter	1.705		3528		
7200 min Winter	1.427		4320		
8640 min Winter	1.235		5088		
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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 (m³)	Status
10080 min Winter	2.988	0.128	0.3	11.9	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
10080 min Winter	1.093	5760

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Model Details

Storage is Online Cover Level (m) 4.500

Cellular Storage Structure

Invert Level (m) 2.860 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.01662 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.16620

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	98.0	98.0	1.300	0.0	115.8
0.100	98.0	102.0	1.400	0.0	115.8
0.200	98.0	105.9	1.500	0.0	115.8
0.300	98.0	109.9	1.600	0.0	115.8
0.400	98.0	113.8	1.700	0.0	115.8
0.500	0.0	115.8	1.800	0.0	115.8
0.600	0.0	115.8	1.900	0.0	115.8
0.700	0.0	115.8	2.000	0.0	115.8
0.800	0.0	115.8	2.100	0.0	115.8
0.900	0.0	115.8	2.200	0.0	115.8
1.000	0.0	115.8	2.300	0.0	115.8
1.100	0.0	115.8	2.400	0.0	115.8
1.200	0.0	115.8	2.500	0.0	115.8

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