

Tribrach Associates		Page 1																																																																																																																																																																																													
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Summer	5.180	0.580	0.1	2.1	O K	480 min Summer	5.182	0.582	0.1	2.1	O K	600 min Summer	5.179	0.579	0.1	2.1	O K	720 min Summer	5.173	0.573	0.1	2.1	O K	960 min Summer	5.157	0.557	0.1	2.0	O K	1440 min Summer	5.120	0.520	0.1	1.9	O K	2160 min Summer	5.066	0.466	0.1	1.7	O K	2880 min Summer	5.018	0.418	0.1	1.5	O K	4320 min Summer	4.935	0.335	0.0	1.2	O K	5760 min Summer	4.868	0.268	0.0	1.0	O K	7200 min Summer	4.815	0.215	0.0	0.8	O K	8640 min Summer	4.773	0.173	0.0	0.6	O K	10080 min Summer	4.738	0.138	0.0	0.5	O K	15 min Winter	4.921	0.321	0.0	1.2	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	180	240 min Summer	9.023	236	360 min Summer	6.722	292	480 min Summer	5.449	356	600 min Summer	4.628	422	720 min Summer	4.048	492	960 min Summer	3.277	634	1440 min Summer	2.430	908	2160 min Summer	1.801	1316	2880 min Summer	1.455	1704	4320 min Summer	1.077	2464	5760 min Summer	0.870	3224	7200 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Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	5.017	0.417	0.1	1.5	O K
60 min Winter	5.113	0.513	0.1	1.9	O K
120 min Winter	5.200	0.600	0.1	2.2	O K
180 min Winter	5.238	0.638	0.1	2.3	O K
240 min Winter	5.256	0.656	0.1	2.4	O K
360 min Winter	5.265	0.665	0.1	2.4	O K
480 min Winter	5.265	0.665	0.1	2.4	O K
600 min Winter	5.260	0.660	0.1	2.4	O K
720 min Winter	5.250	0.650	0.1	2.4	O K
960 min Winter	5.225	0.625	0.1	2.3	O K
1440 min Winter	5.167	0.567	0.1	2.1	O K
2160 min Winter	5.084	0.484	0.1	1.8	O K
2880 min Winter	5.013	0.413	0.1	1.5	O K
4320 min Winter	4.898	0.298	0.0	1.1	O K
5760 min Winter	4.812	0.212	0.0	0.8	O K
7200 min Winter	4.747	0.147	0.0	0.5	O K
8640 min Winter	4.697	0.097	0.0	0.4	O K
10080 min Winter	4.662	0.062	0.0	0.2	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	176
240 min Winter	9.023	232
360 min Winter	6.722	330
480 min Winter	5.449	374
600 min Winter	4.628	452
720 min Winter	4.048	528
960 min Winter	3.277	684
1440 min Winter	2.430	980
2160 min Winter	1.801	1404
2880 min Winter	1.455	1812
4320 min Winter	1.077	2592
5760 min Winter	0.870	3344
7200 min Winter	0.737	4040
8640 min Winter	0.644	4752
10080 min Winter	0.574	5344

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<u>Model Details</u> Storage is Online Cover Level (m) 6.800 <u>Cellular Storage Structure</u> Invert Level (m) 4.600 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.05400 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>3.8</td> <td>3.8</td> <td>1.321</td> <td>0.0</td> <td>14.2</td> </tr> <tr> <td>1.320</td> <td>3.8</td> <td>14.2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	3.8	3.8	1.321	0.0	14.2	1.320	3.8	14.2			
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Summer	4.716	0.566	0.1	4.1	O K	480 min Summer	4.718	0.568	0.1	4.1	O K	600 min Summer	4.716	0.566	0.1	4.1	O K	720 min Summer	4.711	0.561	0.1	4.1	O K	960 min Summer	4.698	0.548	0.1	4.0	O K	1440 min Summer	4.666	0.516	0.1	3.8	O K	2160 min Summer	4.616	0.466	0.1	3.4	O K	2880 min Summer	4.570	0.420	0.1	3.1	O K	4320 min Summer	4.488	0.338	0.1	2.5	O K	5760 min Summer	4.420	0.270	0.1	2.0	O K	7200 min Summer	4.366	0.216	0.1	1.6	O K	8640 min Summer	4.321	0.171	0.1	1.2	O K	10080 min Summer	4.284	0.134	0.1	1.0	O K	15 min Winter	4.455	0.305	0.1	2.2	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	182	240 min Summer	9.023	240	360 min Summer	6.722	312	480 min Summer	5.449	376	600 min Summer	4.628	440	720 min Summer	4.048	508	960 min Summer	3.277	646	1440 min Summer	2.430	924	2160 min Summer	1.801	1336	2880 min Summer	1.455	1732	4320 min Summer	1.077	2508	5760 min Summer	0.870	3232	7200 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14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA10-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	4.547	0.397	0.1	2.9	O K
60 min Winter	4.640	0.490	0.1	3.6	O K
120 min Winter	4.726	0.576	0.1	4.2	O K
180 min Winter	4.766	0.616	0.1	4.5	O K
240 min Winter	4.787	0.637	0.1	4.7	O K
360 min Winter	4.803	0.653	0.1	4.8	O K
480 min Winter	4.802	0.652	0.1	4.8	O K
600 min Winter	4.799	0.649	0.1	4.7	O K
720 min Winter	4.792	0.642	0.1	4.7	O K
960 min Winter	4.772	0.622	0.1	4.5	O K
1440 min Winter	4.721	0.571	0.1	4.2	O K
2160 min Winter	4.644	0.494	0.1	3.6	O K
2880 min Winter	4.574	0.424	0.1	3.1	O K
4320 min Winter	4.457	0.307	0.1	2.2	O K
5760 min Winter	4.366	0.216	0.1	1.6	O K
7200 min Winter	4.295	0.145	0.1	1.1	O K
8640 min Winter	4.242	0.092	0.1	0.7	O K
10080 min Winter	4.206	0.056	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	178
240 min Winter	9.023	234
360 min Winter	6.722	340
480 min Winter	5.449	392
600 min Winter	4.628	466
720 min Winter	4.048	542
960 min Winter	3.277	700
1440 min Winter	2.430	996
2160 min Winter	1.801	1428
2880 min Winter	1.455	1844
4320 min Winter	1.077	2636
5760 min Winter	0.870	3400
7200 min Winter	0.737	4104
8640 min Winter	0.644	4752
10080 min Winter	0.574	5336

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<u>Model Details</u> Storage is Online Cover Level (m) 6.450 <u>Cellular Storage Structure</u> Invert Level (m) 4.150 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.05400 <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>7.7</td> <td>7.7</td> <td>1.321</td> <td>0.0</td> <td>22.2</td> </tr> <tr> <td>1.320</td> <td>7.7</td> <td>22.2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	7.7	7.7	1.321	0.0	22.2	1.320	7.7	22.2			
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Date 21st March 2012 File SA1.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 228 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	5.205	0.605	0.1	2.2	O K
30 min Summer	5.395	0.795	0.2	2.9	O K
60 min Summer	5.572	0.972	0.2	3.5	O K
120 min Summer	5.698	1.098	0.2	4.0	O K
180 min Summer	5.725	1.125	0.2	4.1	O K
240 min Summer	5.728	1.128	0.2	4.1	O K
360 min Summer	5.722	1.122	0.2	4.1	O K
480 min Summer	5.701	1.101	0.2	4.0	O K
600 min Summer	5.672	1.072	0.2	3.9	O K
720 min Summer	5.641	1.041	0.2	3.8	O K
960 min Summer	5.578	0.978	0.2	3.6	O K
1440 min Summer	5.468	0.868	0.2	3.2	O K
2160 min Summer	5.333	0.733	0.1	2.7	O K
2880 min Summer	5.224	0.624	0.1	2.3	O K
4320 min Summer	5.062	0.462	0.1	1.7	O K
5760 min Summer	4.946	0.346	0.1	1.3	O K
7200 min Summer	4.860	0.260	0.1	0.9	O K
8640 min Summer	4.794	0.194	0.1	0.7	O K
10080 min Summer	4.744	0.144	0.1	0.5	O K
15 min Winter	5.280	0.680	0.1	2.5	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	122.433	18
30 min Summer	82.239	33
60 min Summer	52.662	62
120 min Summer	32.503	120
180 min Summer	24.118	162
240 min Summer	19.386	192
360 min Summer	14.268	256
480 min Summer	11.460	326
600 min Summer	9.659	394
720 min Summer	8.396	464
960 min Summer	6.724	600
1440 min Summer	4.907	868
2160 min Summer	3.573	1256
2880 min Summer	2.849	1644
4320 min Summer	2.067	2380
5760 min Summer	1.644	3112
7200 min Summer	1.377	3824
8640 min Summer	1.193	4576
10080 min Summer	1.056	5248
15 min Winter	122.433	18

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Micro Drainage		Source Control W.12.6.1

Model Details

Storage is Online Cover Level (m) 6.800

Cellular Storage Structure

Invert Level (m) 4.600 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	3.8	3.8	1.321	0.0	14.2
1.320	3.8	14.2			

Tribrach Associates		Page 1																																																																																																																																																																																													
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720 min Summer	5.123	0.573	0.1	2.1	O K																																																																																																																																																																																										
960 min Summer	5.107	0.557	0.1	2.0	O K																																																																																																																																																																																										
1440 min Summer	5.070	0.520	0.1	1.9	O K																																																																																																																																																																																										
2160 min Summer	5.016	0.466	0.1	1.7	O K																																																																																																																																																																																										
2880 min Summer	4.968	0.418	0.1	1.5	O K																																																																																																																																																																																										
4320 min Summer	4.885	0.335	0.0	1.2	O K																																																																																																																																																																																										
5760 min Summer	4.818	0.268	0.0	1.0	O K																																																																																																																																																																																										
7200 min Summer	4.765	0.215	0.0	0.8	O K																																																																																																																																																																																										
8640 min Summer	4.723	0.173	0.0	0.6	O K																																																																																																																																																																																										
10080 min Summer	4.688	0.138	0.0	0.5	O K																																																																																																																																																																																										
15 min Winter	4.871	0.321	0.0	1.2	O K																																																																																																																																																																																										
Storm Event	Rain (mm/hr)	Time-Peak (mins)																																																																																																																																																																																													
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600 min Summer	4.628	422																																																																																																																																																																																													
720 min Summer	4.048	492																																																																																																																																																																																													
960 min Summer	3.277	634																																																																																																																																																																																													
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Tribrach Associates		Page 2
14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA2-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	4.967	0.417	0.1	1.5	O K
60 min Winter	5.063	0.513	0.1	1.9	O K
120 min Winter	5.150	0.600	0.1	2.2	O K
180 min Winter	5.188	0.638	0.1	2.3	O K
240 min Winter	5.206	0.656	0.1	2.4	O K
360 min Winter	5.215	0.665	0.1	2.4	O K
480 min Winter	5.215	0.665	0.1	2.4	O K
600 min Winter	5.210	0.660	0.1	2.4	O K
720 min Winter	5.200	0.650	0.1	2.4	O K
960 min Winter	5.175	0.625	0.1	2.3	O K
1440 min Winter	5.117	0.567	0.1	2.1	O K
2160 min Winter	5.034	0.484	0.1	1.8	O K
2880 min Winter	4.963	0.413	0.1	1.5	O K
4320 min Winter	4.848	0.298	0.0	1.1	O K
5760 min Winter	4.762	0.212	0.0	0.8	O K
7200 min Winter	4.697	0.147	0.0	0.5	O K
8640 min Winter	4.647	0.097	0.0	0.4	O K
10080 min Winter	4.612	0.062	0.0	0.2	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	176
240 min Winter	9.023	232
360 min Winter	6.722	330
480 min Winter	5.449	374
600 min Winter	4.628	452
720 min Winter	4.048	528
960 min Winter	3.277	684
1440 min Winter	2.430	980
2160 min Winter	1.801	1404
2880 min Winter	1.455	1812
4320 min Winter	1.077	2592
5760 min Winter	0.870	3344
7200 min Winter	0.737	4040
8640 min Winter	0.644	4752
10080 min Winter	0.574	5344

Tribrach Associates		Page 3																												
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<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>20.000</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.350</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+0</td> </tr> </table> <u>Time / Area Diagram</u> Total Area (ha) 0.010 <table> <thead> <tr> <th>Time (mins)</th> <th>Area (ha)</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>0.010</td> </tr> </tbody> </table>			Rainfall Model	FSR	Winter Storms	Yes	Return Period (years)	10	Cv (Summer)	0.750	Region	England and Wales	Cv (Winter)	0.840	M5-60 (mm)	20.000	Shortest Storm (mins)	15	Ratio R	0.350	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+0	Time (mins)	Area (ha)	0-4	0.010
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Tribrach Associates		Page 4																		
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Micro Drainage		Source Control W.12.6.1																		
<u>Model Details</u> Storage is Online Cover Level (m) 6.750 <u>Cellular Storage Structure</u> Invert Level (m) 4.550 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.05400 <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>3.8</td> <td>3.8</td> <td>1.321</td> <td>0.0</td> <td>14.2</td> </tr> <tr> <td>1.320</td> <td>3.8</td> <td>14.2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	3.8	3.8	1.321	0.0	14.2	1.320	3.8	14.2			
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14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA7-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Half Drain Time : 307 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	4.371	0.321	0.1	1.6	O K
30 min Summer	4.466	0.416	0.1	2.0	O K
60 min Summer	4.559	0.509	0.1	2.5	O K
120 min Summer	4.637	0.587	0.1	2.9	O K
180 min Summer	4.667	0.617	0.1	3.0	O K
240 min Summer	4.678	0.628	0.1	3.1	O K
360 min Summer	4.689	0.639	0.1	3.1	O K
480 min Summer	4.690	0.640	0.1	3.1	O K
600 min Summer	4.686	0.636	0.1	3.1	O K
720 min Summer	4.679	0.629	0.1	3.1	O K
960 min Summer	4.659	0.609	0.1	3.0	O K
1440 min Summer	4.616	0.566	0.1	2.8	O K
2160 min Summer	4.556	0.506	0.1	2.5	O K
2880 min Summer	4.502	0.452	0.1	2.2	O K
4320 min Summer	4.414	0.364	0.1	1.8	O K
5760 min Summer	4.347	0.297	0.1	1.4	O K
7200 min Summer	4.293	0.243	0.1	1.2	O K
8640 min Summer	4.249	0.199	0.1	1.0	O K
10080 min Summer	4.214	0.164	0.1	0.8	O K
15 min Winter	4.411	0.361	0.1	1.8	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	57.378	19
30 min Summer	37.853	33
60 min Summer	24.003	62
120 min Summer	14.844	122
180 min Summer	11.113	180
240 min Summer	9.023	216
360 min Summer	6.722	278
480 min Summer	5.449	342
600 min Summer	4.628	412
720 min Summer	4.048	482
960 min Summer	3.277	618
1440 min Summer	2.430	894
2160 min Summer	1.801	1296
2880 min Summer	1.455	1676
4320 min Summer	1.077	2424
5760 min Summer	0.870	3176
7200 min Summer	0.737	3896
8640 min Summer	0.644	4664
10080 min Summer	0.574	5352
15 min Winter	57.378	18

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Summer	5.229	0.629	0.1	2.7	O K	480 min Summer	5.230	0.630	0.1	2.7	O K	600 min Summer	5.226	0.626	0.1	2.7	O K	720 min Summer	5.219	0.619	0.1	2.6	O K	960 min Summer	5.199	0.599	0.1	2.6	O K	1440 min Summer	5.156	0.556	0.1	2.4	O K	2160 min Summer	5.096	0.496	0.1	2.1	O K	2880 min Summer	5.043	0.443	0.1	1.9	O K	4320 min Summer	4.956	0.356	0.1	1.5	O K	5760 min Summer	4.889	0.289	0.1	1.2	O K	7200 min Summer	4.837	0.237	0.1	1.0	O K	8640 min Summer	4.794	0.194	0.1	0.8	O K	10080 min Summer	4.759	0.159	0.0	0.7	O K	15 min Winter	4.957	0.357	0.1	1.5	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	180	240 min Summer	9.023	214	360 min Summer	6.722	276	480 min Summer	5.449	342	600 min Summer	4.628	410	720 min Summer	4.048	482	960 min Summer	3.277	618	1440 min Summer	2.430	894	2160 min Summer	1.801	1296	2880 min Summer	1.455	1676	4320 min Summer	1.077	2424	5760 min Summer	0.870	3176	7200 min Summer	0.737	3896	8640 min Summer	0.644	4664	10080 min Summer	0.574	5344	15 min Winter	57.378	18
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Date 21st March 2012 File SA8-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.062	0.462	0.1	2.0	O K
60 min Winter	5.167	0.567	0.1	2.4	O K
120 min Winter	5.257	0.657	0.1	2.8	O K
180 min Winter	5.294	0.694	0.1	3.0	O K
240 min Winter	5.309	0.709	0.1	3.0	O K
360 min Winter	5.317	0.717	0.1	3.1	O K
480 min Winter	5.316	0.716	0.1	3.1	O K
600 min Winter	5.307	0.707	0.1	3.0	O K
720 min Winter	5.294	0.694	0.1	3.0	O K
960 min Winter	5.263	0.663	0.1	2.8	O K
1440 min Winter	5.195	0.595	0.1	2.5	O K
2160 min Winter	5.105	0.505	0.1	2.2	O K
2880 min Winter	5.030	0.430	0.1	1.8	O K
4320 min Winter	4.915	0.315	0.1	1.3	O K
5760 min Winter	4.831	0.231	0.1	1.0	O K
7200 min Winter	4.768	0.168	0.0	0.7	O K
8640 min Winter	4.720	0.120	0.0	0.5	O K
10080 min Winter	4.683	0.083	0.0	0.4	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	118
180 min Winter	11.113	174
240 min Winter	9.023	228
360 min Winter	6.722	286
480 min Winter	5.449	364
600 min Winter	4.628	440
720 min Winter	4.048	518
960 min Winter	3.277	666
1440 min Winter	2.430	954
2160 min Winter	1.801	1368
2880 min Winter	1.455	1764
4320 min Winter	1.077	2548
5760 min Winter	0.870	3288
7200 min Winter	0.737	4032
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Summer	5.258	1.108	0.3	8.1	O K	480 min Summer	5.242	1.092	0.3	8.0	O K	600 min Summer	5.219	1.069	0.3	7.8	O K	720 min Summer	5.193	1.043	0.3	7.6	O K	960 min Summer	5.139	0.989	0.3	7.2	O K	1440 min Summer	5.040	0.890	0.3	6.5	O K	2160 min Summer	4.913	0.763	0.2	5.6	O K	2880 min Summer	4.806	0.656	0.2	4.8	O K	4320 min Summer	4.638	0.488	0.2	3.6	O K	5760 min Summer	4.513	0.363	0.2	2.7	O K	7200 min Summer	4.420	0.270	0.2	2.0	O K	8640 min Summer	4.347	0.197	0.1	1.4	O K	10080 min Summer	4.291	0.141	0.1	1.0	O K	15 min Winter	4.796	0.646	0.2	4.7	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	122	180 min Summer	24.118	180	240 min Summer	19.386	210	360 min Summer	14.268	272	480 min Summer	11.460	338	600 min Summer	9.659	410	720 min Summer	8.396	478	960 min Summer	6.724	616	1440 min Summer	4.907	892	2160 min Summer	3.573	1280	2880 min Summer	2.849	1672	4320 min Summer	2.067	2420	5760 min 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Tribrach Associates		Page 2
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Date 21st March 2012 File SA10.srcx	Designed by BRC Checked by	
Micro Drainage	Source Control W.12.6.1	

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.003	0.853	0.3	6.2	O K
60 min Winter	5.203	1.053	0.3	7.7	O K
120 min Winter	5.365	1.215	0.3	8.9	O K
180 min Winter	5.418	1.268	0.3	9.3	O K
240 min Winter	5.426	1.276	0.3	9.3	O K
360 min Winter	5.417	1.267	0.3	9.3	O K
480 min Winter	5.396	1.246	0.3	9.1	O K
600 min Winter	5.364	1.214	0.3	8.9	O K
720 min Winter	5.326	1.176	0.3	8.6	O K
960 min Winter	5.246	1.096	0.3	8.0	O K
1440 min Winter	5.100	0.950	0.3	6.9	O K
2160 min Winter	4.918	0.768	0.2	5.6	O K
2880 min Winter	4.772	0.622	0.2	4.5	O K
4320 min Winter	4.556	0.406	0.2	3.0	O K
5760 min Winter	4.406	0.256	0.2	1.9	O K
7200 min Winter	4.300	0.150	0.1	1.1	O K
8640 min Winter	4.226	0.076	0.1	0.6	O K
10080 min Winter	4.198	0.048	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	118
180 min Winter	24.118	174
240 min Winter	19.386	228
360 min Winter	14.268	284
480 min Winter	11.460	362
600 min Winter	9.659	440
720 min Winter	8.396	514
960 min Winter	6.724	664
1440 min Winter	4.907	952
2160 min Winter	3.573	1364
2880 min Winter	2.849	1760
4320 min Winter	2.067	2512
5760 min Winter	1.644	3240
7200 min Winter	1.377	3960
8640 min Winter	1.193	4584
10080 min Winter	1.056	5104

Tribrach Associates		Page 3																												
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Tribrach Associates		Page 4
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Date 21st March 2012 File SA10.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Model Details

Storage is Online Cover Level (m) 6.450

Cellular Storage Structure

Invert Level (m) 4.150 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.7	7.7	1.321	0.0	22.2
1.320	7.7	22.2			

Tribrach Associates		Page 3																												
14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX																													
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Date 21st March 2012 File SA8-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Model Details

Storage is Online Cover Level (m) 6.700

Cellular Storage Structure

Invert Level (m) 4.600 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	4.5	4.5	1.321	0.0	21.1
1.320	4.5	21.1			

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Summer</td><td>4.675</td><td>0.675</td><td>0.1</td><td>3.3</td><td>O K</td></tr> <tr><td>600 min Summer</td><td>4.674</td><td>0.674</td><td>0.1</td><td>3.3</td><td>O K</td></tr> <tr><td>720 min Summer</td><td>4.670</td><td>0.670</td><td>0.1</td><td>3.3</td><td>O K</td></tr> <tr><td>960 min Summer</td><td>4.655</td><td>0.655</td><td>0.1</td><td>3.2</td><td>O K</td></tr> <tr><td>1440 min Summer</td><td>4.618</td><td>0.618</td><td>0.1</td><td>3.0</td><td>O K</td></tr> <tr><td>2160 min Summer</td><td>4.562</td><td>0.562</td><td>0.1</td><td>2.7</td><td>O K</td></tr> <tr><td>2880 min Summer</td><td>4.511</td><td>0.511</td><td>0.1</td><td>2.5</td><td>O K</td></tr> <tr><td>4320 min Summer</td><td>4.421</td><td>0.421</td><td>0.1</td><td>2.0</td><td>O K</td></tr> <tr><td>5760 min Summer</td><td>4.347</td><td>0.347</td><td>0.1</td><td>1.7</td><td>O K</td></tr> <tr><td>7200 min Summer</td><td>4.287</td><td>0.287</td><td>0.1</td><td>1.4</td><td>O K</td></tr> <tr><td>8640 min 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Summer	4.672	0.672	0.1	3.3	O K	480 min Summer	4.675	0.675	0.1	3.3	O K	600 min Summer	4.674	0.674	0.1	3.3	O K	720 min Summer	4.670	0.670	0.1	3.3	O K	960 min Summer	4.655	0.655	0.1	3.2	O K	1440 min Summer	4.618	0.618	0.1	3.0	O K	2160 min Summer	4.562	0.562	0.1	2.7	O K	2880 min Summer	4.511	0.511	0.1	2.5	O K	4320 min Summer	4.421	0.421	0.1	2.0	O K	5760 min Summer	4.347	0.347	0.1	1.7	O K	7200 min Summer	4.287	0.287	0.1	1.4	O K	8640 min Summer	4.237	0.237	0.1	1.2	O K	10080 min Summer	4.196	0.196	0.1	1.0	O K	15 min Winter	4.362	0.362	0.1	1.8	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	182	240 min Summer	9.023	240	360 min Summer	6.722	306	480 min Summer	5.449	370	600 min Summer	4.628	434	720 min Summer	4.048	504	960 min Summer	3.277	644	1440 min Summer	2.430	922	2160 min Summer	1.801	1324	2880 min Summer	1.455	1728	4320 min Summer	1.077	2504	5760 min Summer	0.870	3232	7200 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Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Half Drain Time : 307 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	4.371	0.321	0.1	1.6	O K
30 min Summer	4.466	0.416	0.1	2.0	O K
60 min Summer	4.559	0.509	0.1	2.5	O K
120 min Summer	4.637	0.587	0.1	2.9	O K
180 min Summer	4.667	0.617	0.1	3.0	O K
240 min Summer	4.678	0.628	0.1	3.1	O K
360 min Summer	4.689	0.639	0.1	3.1	O K
480 min Summer	4.690	0.640	0.1	3.1	O K
600 min Summer	4.686	0.636	0.1	3.1	O K
720 min Summer	4.679	0.629	0.1	3.1	O K
960 min Summer	4.659	0.609	0.1	3.0	O K
1440 min Summer	4.616	0.566	0.1	2.8	O K
2160 min Summer	4.556	0.506	0.1	2.5	O K
2880 min Summer	4.502	0.452	0.1	2.2	O K
4320 min Summer	4.414	0.364	0.1	1.8	O K
5760 min Summer	4.347	0.297	0.1	1.4	O K
7200 min Summer	4.293	0.243	0.1	1.2	O K
8640 min Summer	4.249	0.199	0.1	1.0	O K
10080 min Summer	4.214	0.164	0.1	0.8	O K
15 min Winter	4.411	0.361	0.1	1.8	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	57.378	19
30 min Summer	37.853	33
60 min Summer	24.003	62
120 min Summer	14.844	122
180 min Summer	11.113	180
240 min Summer	9.023	216
360 min Summer	6.722	278
480 min Summer	5.449	342
600 min Summer	4.628	412
720 min Summer	4.048	482
960 min Summer	3.277	618
1440 min Summer	2.430	894
2160 min Summer	1.801	1296
2880 min Summer	1.455	1676
4320 min Summer	1.077	2424
5760 min Summer	0.870	3176
7200 min Summer	0.737	3896
8640 min Summer	0.644	4664
10080 min Summer	0.574	5352
15 min Winter	57.378	18

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Date 21st March 2012 File SA7-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	4.518	0.468	0.1	2.3	O K
60 min Winter	4.624	0.574	0.1	2.8	O K
120 min Winter	4.716	0.666	0.1	3.2	O K
180 min Winter	4.754	0.704	0.1	3.4	O K
240 min Winter	4.770	0.720	0.1	3.5	O K
360 min Winter	4.778	0.728	0.1	3.5	O K
480 min Winter	4.777	0.727	0.1	3.5	O K
600 min Winter	4.769	0.719	0.1	3.5	O K
720 min Winter	4.756	0.706	0.1	3.4	O K
960 min Winter	4.725	0.675	0.1	3.3	O K
1440 min Winter	4.657	0.607	0.1	3.0	O K
2160 min Winter	4.566	0.516	0.1	2.5	O K
2880 min Winter	4.490	0.440	0.1	2.1	O K
4320 min Winter	4.373	0.323	0.1	1.6	O K
5760 min Winter	4.288	0.238	0.1	1.2	O K
7200 min Winter	4.224	0.174	0.1	0.8	O K
8640 min Winter	4.175	0.125	0.1	0.6	O K
10080 min Winter	4.137	0.087	0.0	0.4	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	118
180 min Winter	11.113	174
240 min Winter	9.023	228
360 min Winter	6.722	288
480 min Winter	5.449	364
600 min Winter	4.628	442
720 min Winter	4.048	520
960 min Winter	3.277	666
1440 min Winter	2.430	954
2160 min Winter	1.801	1380
2880 min Winter	1.455	1784
4320 min Winter	1.077	2552
5760 min Winter	0.870	3288
7200 min Winter	0.737	4032
8640 min Winter	0.644	4752
10080 min Winter	0.574	5440

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Summer	5.672	1.122	0.2	4.1	O K	480 min Summer	5.651	1.101	0.2	4.0	O K	600 min Summer	5.622	1.072	0.2	3.9	O K	720 min Summer	5.591	1.041	0.2	3.8	O K	960 min Summer	5.528	0.978	0.2	3.6	O K	1440 min Summer	5.418	0.868	0.2	3.2	O K	2160 min Summer	5.283	0.733	0.1	2.7	O K	2880 min Summer	5.174	0.624	0.1	2.3	O K	4320 min Summer	5.012	0.462	0.1	1.7	O K	5760 min Summer	4.896	0.346	0.1	1.3	O K	7200 min Summer	4.810	0.260	0.1	0.9	O K	8640 min Summer	4.744	0.194	0.1	0.7	O K	10080 min Summer	4.694	0.144	0.1	0.5	O K	15 min Winter	5.230	0.680	0.1	2.5	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	120	180 min Summer	24.118	162	240 min Summer	19.386	192	360 min Summer	14.268	256	480 min Summer	11.460	326	600 min Summer	9.659	394	720 min Summer	8.396	464	960 min Summer	6.724	600	1440 min Summer	4.907	868	2160 min Summer	3.573	1256	2880 min Summer	2.849	1644	4320 min Summer	2.067	2380	5760 min 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Date 21st March 2012 File SA2.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.445	0.895	0.2	3.3	O K
60 min Winter	5.648	1.098	0.2	4.0	O K
120 min Winter	5.800	1.250	0.2	4.5	O K
180 min Winter	5.837	1.287	0.2	4.7	O K
240 min Winter	5.834	1.284	0.2	4.7	O K
360 min Winter	5.824	1.274	0.2	4.6	O K
480 min Winter	5.791	1.241	0.2	4.5	O K
600 min Winter	5.748	1.198	0.2	4.4	O K
720 min Winter	5.702	1.152	0.2	4.2	O K
960 min Winter	5.610	1.060	0.2	3.9	O K
1440 min Winter	5.450	0.900	0.2	3.3	O K
2160 min Winter	5.264	0.714	0.1	2.6	O K
2880 min Winter	5.123	0.573	0.1	2.1	O K
4320 min Winter	4.924	0.374	0.1	1.4	O K
5760 min Winter	4.791	0.241	0.1	0.9	O K
7200 min Winter	4.698	0.148	0.1	0.5	O K
8640 min Winter	4.633	0.083	0.1	0.3	O K
10080 min Winter	4.599	0.049	0.1	0.2	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	32
60 min Winter	52.662	62
120 min Winter	32.503	118
180 min Winter	24.118	172
240 min Winter	19.386	198
360 min Winter	14.268	272
480 min Winter	11.460	350
600 min Winter	9.659	424
720 min Winter	8.396	500
960 min Winter	6.724	644
1440 min Winter	4.907	924
2160 min Winter	3.573	1324
2880 min Winter	2.849	1704
4320 min Winter	2.067	2464
5760 min Winter	1.644	3224
7200 min Winter	1.377	3896
8640 min Winter	1.193	4584
10080 min Winter	1.056	5112

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	5.010	1.010	0.2	4.9	O K
60 min Winter	5.245	1.245	0.3	6.0	O K
120 min Winter	5.864	1.864	0.3	7.0	O K
180 min Winter	6.158	2.158	0.3	7.2	Flood Risk
240 min Winter	6.197	2.197	0.3	7.3	Flood Risk
360 min Winter	6.142	2.142	0.3	7.2	Flood Risk
480 min Winter	6.000	2.000	0.3	7.1	O K
600 min Winter	5.790	1.790	0.3	6.9	O K
720 min Winter	5.550	1.550	0.3	6.6	O K
960 min Winter	5.270	1.270	0.3	6.2	O K
1440 min Winter	5.095	1.095	0.2	5.3	O K
2160 min Winter	4.890	0.890	0.2	4.3	O K
2880 min Winter	4.731	0.731	0.2	3.6	O K
4320 min Winter	4.502	0.502	0.1	2.4	O K
5760 min Winter	4.345	0.345	0.1	1.7	O K
7200 min Winter	4.234	0.234	0.1	1.1	O K
8640 min Winter	4.151	0.151	0.1	0.7	O K
10080 min Winter	4.089	0.089	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	118
180 min Winter	24.118	174
240 min Winter	19.386	226
360 min Winter	14.268	282
480 min Winter	11.460	358
600 min Winter	9.659	434
720 min Winter	8.396	508
960 min Winter	6.724	654
1440 min Winter	4.907	938
2160 min Winter	3.573	1340
2880 min Winter	2.849	1732
4320 min Winter	2.067	2504
5760 min Winter	1.644	3232
7200 min Winter	1.377	3968
8640 min Winter	1.193	4672
10080 min Winter	1.056	5344

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Summer	5.301	1.301	0.3	6.3	O K	480 min Summer	5.283	1.283	0.3	6.2	O K	600 min Summer	5.257	1.257	0.3	6.1	O K	720 min Summer	5.226	1.226	0.3	6.0	O K	960 min Summer	5.161	1.161	0.2	5.6	O K	1440 min Summer	5.041	1.041	0.2	5.1	O K	2160 min Summer	4.894	0.894	0.2	4.3	O K	2880 min Summer	4.774	0.774	0.2	3.8	O K	4320 min Summer	4.590	0.590	0.2	2.9	O K	5760 min Summer	4.457	0.457	0.1	2.2	O K	7200 min Summer	4.357	0.357	0.1	1.7	O K	8640 min Summer	4.279	0.279	0.1	1.4	O K	10080 min Summer	4.216	0.216	0.1	1.0	O K	15 min Winter	4.767	0.767	0.2	3.7	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	120	180 min Summer	24.118	172	240 min Summer	19.386	200	360 min Summer	14.268	262	480 min Summer	11.460	330	600 min Summer	9.659	400	720 min Summer	8.396	470	960 min Summer	6.724	608	1440 min Summer	4.907	880	2160 min Summer	3.573	1276	2880 min Summer	2.849	1648	4320 min Summer	2.067	2416	5760 min 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Tribrach Associates		Page 2
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Date 21st March 2012 File SA9+20%.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 100 year Return Period (+20%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.233	0.933	0.3	8.5	O K
60 min Winter	5.456	1.156	0.4	10.5	O K
120 min Winter	5.807	1.507	0.4	12.2	O K
180 min Winter	6.426	2.126	0.4	12.8	Flood Risk
240 min Winter	6.599	2.299	0.4	13.0	Flood Risk
360 min Winter	6.534	2.234	0.4	13.0	Flood Risk
480 min Winter	6.371	2.071	0.4	12.8	Flood Risk
600 min Winter	6.088	1.788	0.4	12.5	O K
720 min Winter	5.741	1.441	0.4	12.2	O K
960 min Winter	5.553	1.253	0.4	11.4	O K
1440 min Winter	5.398	1.098	0.4	10.0	O K
2160 min Winter	5.205	0.905	0.3	8.3	O K
2880 min Winter	5.048	0.748	0.3	6.8	O K
4320 min Winter	4.810	0.510	0.2	4.7	O K
5760 min Winter	4.641	0.341	0.2	3.1	O K
7200 min Winter	4.518	0.218	0.2	2.0	O K
8640 min Winter	4.427	0.127	0.2	1.2	O K
10080 min Winter	4.364	0.064	0.2	0.6	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	75.913	33
60 min Winter	48.611	62
120 min Winter	30.003	118
180 min Winter	22.262	176
240 min Winter	17.895	230
360 min Winter	13.170	296
480 min Winter	10.578	370
600 min Winter	8.916	446
720 min Winter	7.750	520
960 min Winter	6.206	672
1440 min Winter	4.529	966
2160 min Winter	3.298	1384
2880 min Winter	2.630	1784
4320 min Winter	1.908	2552
5760 min Winter	1.518	3288
7200 min Winter	1.271	4032
8640 min Winter	1.101	4672
10080 min Winter	0.975	5248

Tribrach Associates		Page 1																																																																																																																																																																																													
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Summer	5.538	1.238	0.4	11.3	O K	480 min Summer	5.525	1.225	0.4	11.2	O K	600 min Summer	5.503	1.203	0.4	11.0	O K	720 min Summer	5.477	1.177	0.4	10.7	O K	960 min Summer	5.422	1.122	0.4	10.2	O K	1440 min Summer	5.318	1.018	0.3	9.3	O K	2160 min Summer	5.184	0.884	0.3	8.1	O K	2880 min Summer	5.069	0.769	0.3	7.0	O K	4320 min Summer	4.887	0.587	0.3	5.4	O K	5760 min Summer	4.750	0.450	0.2	4.1	O K	7200 min Summer	4.645	0.345	0.2	3.1	O K	8640 min Summer	4.561	0.261	0.2	2.4	O K	10080 min Summer	4.496	0.196	0.2	1.8	O K	15 min Winter	5.006	0.706	0.3	6.4	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	113.015	19	30 min Summer	75.913	33	60 min Summer	48.611	62	120 min Summer	30.003	122	180 min Summer	22.262	180	240 min Summer	17.895	222	360 min Summer	13.170	282	480 min Summer	10.578	346	600 min Summer	8.916	414	720 min Summer	7.750	484	960 min Summer	6.206	624	1440 min Summer	4.529	896	2160 min Summer	3.298	1296	2880 min Summer	2.630	1676	4320 min Summer	1.908	2424	5760 min 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60 min Summer	5.324	1.024	0.3	9.3	O K																																																																																																																																																																																										
120 min Summer	5.481	1.181	0.4	10.8	O K																																																																																																																																																																																										
180 min Summer	5.531	1.231	0.4	11.2	O K																																																																																																																																																																																										
240 min Summer	5.538	1.238	0.4	11.3	O K																																																																																																																																																																																										
360 min Summer	5.538	1.238	0.4	11.3	O K																																																																																																																																																																																										
480 min Summer	5.525	1.225	0.4	11.2	O K																																																																																																																																																																																										
600 min Summer	5.503	1.203	0.4	11.0	O K																																																																																																																																																																																										
720 min Summer	5.477	1.177	0.4	10.7	O K																																																																																																																																																																																										
960 min Summer	5.422	1.122	0.4	10.2	O K																																																																																																																																																																																										
1440 min Summer	5.318	1.018	0.3	9.3	O K																																																																																																																																																																																										
2160 min Summer	5.184	0.884	0.3	8.1	O K																																																																																																																																																																																										
2880 min Summer	5.069	0.769	0.3	7.0	O K																																																																																																																																																																																										
4320 min Summer	4.887	0.587	0.3	5.4	O K																																																																																																																																																																																										
5760 min Summer	4.750	0.450	0.2	4.1	O K																																																																																																																																																																																										
7200 min Summer	4.645	0.345	0.2	3.1	O K																																																																																																																																																																																										
8640 min Summer	4.561	0.261	0.2	2.4	O K																																																																																																																																																																																										
10080 min Summer	4.496	0.196	0.2	1.8	O K																																																																																																																																																																																										
15 min Winter	5.006	0.706	0.3	6.4	O K																																																																																																																																																																																										
Storm Event	Rain (mm/hr)	Time-Peak (mins)																																																																																																																																																																																													
15 min Summer	113.015	19																																																																																																																																																																																													
30 min Summer	75.913	33																																																																																																																																																																																													
60 min Summer	48.611	62																																																																																																																																																																																													
120 min Summer	30.003	122																																																																																																																																																																																													
180 min Summer	22.262	180																																																																																																																																																																																													
240 min Summer	17.895	222																																																																																																																																																																																													
360 min Summer	13.170	282																																																																																																																																																																																													
480 min Summer	10.578	346																																																																																																																																																																																													
600 min Summer	8.916	414																																																																																																																																																																																													
720 min Summer	7.750	484																																																																																																																																																																																													
960 min Summer	6.206	624																																																																																																																																																																																													
1440 min Summer	4.529	896																																																																																																																																																																																													
2160 min Summer	3.298	1296																																																																																																																																																																																													
2880 min Summer	2.630	1676																																																																																																																																																																																													
4320 min Summer	1.908	2424																																																																																																																																																																																													
5760 min Summer	1.518	3176																																																																																																																																																																																													
7200 min Summer	1.271	3896																																																																																																																																																																																													
8640 min Summer	1.101	4592																																																																																																																																																																																													
10080 min Summer	0.975	5344																																																																																																																																																																																													
15 min Winter	113.015	18																																																																																																																																																																																													
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Tribrach Associates		Page 1
14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA5-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Half Drain Time : 412 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	4.051	0.301	0.1	2.2	O K
30 min Summer	4.141	0.391	0.1	2.9	O K
60 min Summer	4.231	0.481	0.1	3.5	O K
120 min Summer	4.312	0.562	0.1	4.1	O K
180 min Summer	4.349	0.599	0.1	4.4	O K
240 min Summer	4.366	0.616	0.1	4.5	O K
360 min Summer	4.377	0.627	0.1	4.6	O K
480 min Summer	4.381	0.631	0.1	4.6	O K
600 min Summer	4.379	0.629	0.1	4.6	O K
720 min Summer	4.375	0.625	0.1	4.6	O K
960 min Summer	4.361	0.611	0.1	4.5	O K
1440 min Summer	4.326	0.576	0.1	4.2	O K
2160 min Summer	4.274	0.524	0.1	3.8	O K
2880 min Summer	4.225	0.475	0.1	3.5	O K
4320 min Summer	4.139	0.389	0.1	2.8	O K
5760 min Summer	4.067	0.317	0.1	2.3	O K
7200 min Summer	4.009	0.259	0.1	1.9	O K
8640 min Summer	3.960	0.210	0.1	1.5	O K
10080 min Summer	3.921	0.171	0.1	1.2	O K
15 min Winter	4.087	0.337	0.1	2.5	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	57.378	19
30 min Summer	37.853	33
60 min Summer	24.003	62
120 min Summer	14.844	122
180 min Summer	11.113	182
240 min Summer	9.023	240
360 min Summer	6.722	310
480 min Summer	5.449	374
600 min Summer	4.628	438
720 min Summer	4.048	506
960 min Summer	3.277	646
1440 min Summer	2.430	924
2160 min Summer	1.801	1336
2880 min Summer	1.455	1732
4320 min Summer	1.077	2508
5760 min Summer	0.870	3240
7200 min Summer	0.737	3968
8640 min Summer	0.644	4680
10080 min Summer	0.574	5440
15 min Winter	57.378	18

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14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA5-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	4.189	0.439	0.1	3.2	O K
60 min Winter	4.292	0.542	0.1	4.0	O K
120 min Winter	4.387	0.637	0.1	4.7	O K
180 min Winter	4.432	0.682	0.1	5.0	O K
240 min Winter	4.455	0.705	0.1	5.1	O K
360 min Winter	4.472	0.722	0.1	5.3	O K
480 min Winter	4.472	0.722	0.1	5.3	O K
600 min Winter	4.470	0.720	0.1	5.3	O K
720 min Winter	4.463	0.713	0.1	5.2	O K
960 min Winter	4.442	0.692	0.1	5.1	O K
1440 min Winter	4.387	0.637	0.1	4.7	O K
2160 min Winter	4.306	0.556	0.1	4.1	O K
2880 min Winter	4.232	0.482	0.1	3.5	O K
4320 min Winter	4.109	0.359	0.1	2.6	O K
5760 min Winter	4.014	0.264	0.1	1.9	O K
7200 min Winter	3.939	0.189	0.1	1.4	O K
8640 min Winter	3.881	0.131	0.1	1.0	O K
10080 min Winter	3.836	0.086	0.1	0.6	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	176
240 min Winter	9.023	232
360 min Winter	6.722	340
480 min Winter	5.449	388
600 min Winter	4.628	464
720 min Winter	4.048	542
960 min Winter	3.277	694
1440 min Winter	2.430	996
2160 min Winter	1.801	1428
2880 min Winter	1.455	1844
4320 min Winter	1.077	2636
5760 min Winter	0.870	3400
7200 min Winter	0.737	4112
8640 min Winter	0.644	4840
10080 min Winter	0.574	5448

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<u>Summary of Results for 10 year Return Period</u> Half Drain Time : 399 minutes. <table border="1"> <thead> <tr> <th>Storm Event</th> <th>Max Level (m)</th> <th>Max Depth (m)</th> <th>Max Infiltration (l/s)</th> <th>Max Volume (m³)</th> <th>Status</th> </tr> </thead> <tbody> <tr><td>15 min Summer</td><td>4.386</td><td>0.286</td><td>0.1</td><td>2.1</td><td>O K</td></tr> <tr><td>30 min Summer</td><td>4.471</td><td>0.371</td><td>0.1</td><td>2.7</td><td>O K</td></tr> <tr><td>60 min Summer</td><td>4.557</td><td>0.457</td><td>0.1</td><td>3.3</td><td>O K</td></tr> <tr><td>120 min Summer</td><td>4.634</td><td>0.534</td><td>0.1</td><td>3.9</td><td>O K</td></tr> <tr><td>180 min Summer</td><td>4.668</td><td>0.568</td><td>0.1</td><td>4.1</td><td>O K</td></tr> <tr><td>240 min Summer</td><td>4.683</td><td>0.583</td><td>0.1</td><td>4.3</td><td>O K</td></tr> <tr><td>360 min Summer</td><td>4.693</td><td>0.593</td><td>0.1</td><td>4.3</td><td>O K</td></tr> <tr><td>480 min Summer</td><td>4.695</td><td>0.595</td><td>0.1</td><td>4.3</td><td>O K</td></tr> <tr><td>600 min Summer</td><td>4.693</td><td>0.593</td><td>0.1</td><td>4.3</td><td>O K</td></tr> <tr><td>720 min Summer</td><td>4.688</td><td>0.588</td><td>0.1</td><td>4.3</td><td>O K</td></tr> <tr><td>960 min Summer</td><td>4.674</td><td>0.574</td><td>0.1</td><td>4.2</td><td>O K</td></tr> <tr><td>1440 min Summer</td><td>4.641</td><td>0.541</td><td>0.1</td><td>3.9</td><td>O K</td></tr> <tr><td>2160 min Summer</td><td>4.589</td><td>0.489</td><td>0.1</td><td>3.6</td><td>O K</td></tr> <tr><td>2880 min Summer</td><td>4.541</td><td>0.441</td><td>0.1</td><td>3.2</td><td>O K</td></tr> <tr><td>4320 min Summer</td><td>4.457</td><td>0.357</td><td>0.1</td><td>2.6</td><td>O K</td></tr> <tr><td>5760 min Summer</td><td>4.389</td><td>0.289</td><td>0.1</td><td>2.1</td><td>O K</td></tr> <tr><td>7200 min Summer</td><td>4.333</td><td>0.233</td><td>0.1</td><td>1.7</td><td>O K</td></tr> <tr><td>8640 min Summer</td><td>4.287</td><td>0.187</td><td>0.1</td><td>1.4</td><td>O K</td></tr> <tr><td>10080 min Summer</td><td>4.249</td><td>0.149</td><td>0.1</td><td>1.1</td><td>O K</td></tr> <tr><td>15 min Winter</td><td>4.421</td><td>0.321</td><td>0.1</td><td>2.3</td><td>O K</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Storm Event</th> <th>Rain (mm/hr)</th> <th>Time-Peak (mins)</th> </tr> </thead> <tbody> <tr><td>15 min Summer</td><td>57.378</td><td>19</td></tr> <tr><td>30 min Summer</td><td>37.853</td><td>33</td></tr> <tr><td>60 min Summer</td><td>24.003</td><td>62</td></tr> <tr><td>120 min Summer</td><td>14.844</td><td>122</td></tr> <tr><td>180 min Summer</td><td>11.113</td><td>182</td></tr> <tr><td>240 min Summer</td><td>9.023</td><td>240</td></tr> <tr><td>360 min Summer</td><td>6.722</td><td>308</td></tr> <tr><td>480 min Summer</td><td>5.449</td><td>372</td></tr> <tr><td>600 min Summer</td><td>4.628</td><td>434</td></tr> <tr><td>720 min Summer</td><td>4.048</td><td>504</td></tr> <tr><td>960 min Summer</td><td>3.277</td><td>644</td></tr> <tr><td>1440 min Summer</td><td>2.430</td><td>922</td></tr> <tr><td>2160 min Summer</td><td>1.801</td><td>1324</td></tr> <tr><td>2880 min Summer</td><td>1.455</td><td>1728</td></tr> <tr><td>4320 min Summer</td><td>1.077</td><td>2504</td></tr> <tr><td>5760 min Summer</td><td>0.870</td><td>3232</td></tr> <tr><td>7200 min Summer</td><td>0.737</td><td>3968</td></tr> <tr><td>8640 min Summer</td><td>0.644</td><td>4672</td></tr> <tr><td>10080 min Summer</td><td>0.574</td><td>5440</td></tr> <tr><td>15 min Winter</td><td>57.378</td><td>18</td></tr> </tbody> </table>			Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	4.386	0.286	0.1	2.1	O K	30 min Summer	4.471	0.371	0.1	2.7	O K	60 min Summer	4.557	0.457	0.1	3.3	O K	120 min Summer	4.634	0.534	0.1	3.9	O K	180 min Summer	4.668	0.568	0.1	4.1	O K	240 min Summer	4.683	0.583	0.1	4.3	O K	360 min Summer	4.693	0.593	0.1	4.3	O K	480 min Summer	4.695	0.595	0.1	4.3	O K	600 min Summer	4.693	0.593	0.1	4.3	O K	720 min Summer	4.688	0.588	0.1	4.3	O K	960 min Summer	4.674	0.574	0.1	4.2	O K	1440 min Summer	4.641	0.541	0.1	3.9	O K	2160 min Summer	4.589	0.489	0.1	3.6	O K	2880 min Summer	4.541	0.441	0.1	3.2	O K	4320 min Summer	4.457	0.357	0.1	2.6	O K	5760 min Summer	4.389	0.289	0.1	2.1	O K	7200 min Summer	4.333	0.233	0.1	1.7	O K	8640 min Summer	4.287	0.187	0.1	1.4	O K	10080 min Summer	4.249	0.149	0.1	1.1	O K	15 min Winter	4.421	0.321	0.1	2.3	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	182	240 min Summer	9.023	240	360 min Summer	6.722	308	480 min Summer	5.449	372	600 min Summer	4.628	434	720 min Summer	4.048	504	960 min Summer	3.277	644	1440 min Summer	2.430	922	2160 min Summer	1.801	1324	2880 min Summer	1.455	1728	4320 min Summer	1.077	2504	5760 min Summer	0.870	3232	7200 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Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	4.518	0.418	0.1	3.0	O K
60 min Winter	4.615	0.515	0.1	3.8	O K
120 min Winter	4.705	0.605	0.1	4.4	O K
180 min Winter	4.747	0.647	0.1	4.7	O K
240 min Winter	4.768	0.668	0.1	4.9	O K
360 min Winter	4.782	0.682	0.1	5.0	O K
480 min Winter	4.782	0.682	0.1	5.0	O K
600 min Winter	4.779	0.679	0.1	5.0	O K
720 min Winter	4.772	0.672	0.1	4.9	O K
960 min Winter	4.750	0.650	0.1	4.7	O K
1440 min Winter	4.696	0.596	0.1	4.4	O K
2160 min Winter	4.616	0.516	0.1	3.8	O K
2880 min Winter	4.544	0.444	0.1	3.2	O K
4320 min Winter	4.426	0.326	0.1	2.4	O K
5760 min Winter	4.334	0.234	0.1	1.7	O K
7200 min Winter	4.263	0.163	0.1	1.2	O K
8640 min Winter	4.208	0.108	0.1	0.8	O K
10080 min Winter	4.168	0.068	0.1	0.5	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	176
240 min Winter	9.023	232
360 min Winter	6.722	338
480 min Winter	5.449	386
600 min Winter	4.628	462
720 min Winter	4.048	540
960 min Winter	3.277	694
1440 min Winter	2.430	994
2160 min Winter	1.801	1424
2880 min Winter	1.455	1844
4320 min Winter	1.077	2636
5760 min Winter	0.870	3400
7200 min Winter	0.737	4104
8640 min Winter	0.644	4760
10080 min Winter	0.574	5352

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14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA4-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time / Area Diagram

Total Area (ha) 0.020

Time (mins)	Area (ha)
0-4	0.020

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Model Details

Storage is Online Cover Level (m) 6.400

Cellular Storage Structure

Invert Level (m) 4.100 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.7	7.7	1.321	0.0	24.3
1.320	7.7	24.3			

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Summer	5.471	1.221	0.3	8.9	O K	480 min Summer	5.455	1.205	0.3	8.8	O K	600 min Summer	5.430	1.180	0.3	8.6	O K	720 min Summer	5.401	1.151	0.3	8.4	O K	960 min Summer	5.342	1.092	0.3	8.0	O K	1440 min Summer	5.232	0.982	0.3	7.2	O K	2160 min Summer	5.094	0.844	0.3	6.2	O K	2880 min Summer	4.980	0.730	0.3	5.3	O K	4320 min Summer	4.803	0.553	0.2	4.0	O K	5760 min Summer	4.673	0.423	0.2	3.1	O K	7200 min Summer	4.574	0.324	0.2	2.4	O K	8640 min Summer	4.498	0.248	0.2	1.8	O K	10080 min Summer	4.436	0.186	0.2	1.4	O K	15 min Winter	4.965	0.715	0.3	5.2	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	122	180 min Summer	24.118	180	240 min Summer	19.386	206	360 min Summer	14.268	268	480 min Summer	11.460	336	600 min Summer	9.659	404	720 min Summer	8.396	474	960 min Summer	6.724	614	1440 min Summer	4.907	882	2160 min Summer	3.573	1276	2880 min Summer	2.849	1672	4320 min Summer	2.067	2420	5760 min 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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	5.192	0.942	0.3	6.9	O K
60 min Winter	5.412	1.162	0.3	8.5	O K
120 min Winter	5.700	1.450	0.4	9.8	O K
180 min Winter	6.118	1.868	0.4	10.2	Flood Risk
240 min Winter	6.183	1.933	0.4	10.3	Flood Risk
360 min Winter	6.113	1.863	0.4	10.2	Flood Risk
480 min Winter	5.930	1.680	0.4	10.0	O K
600 min Winter	5.657	1.407	0.4	9.7	O K
720 min Winter	5.540	1.290	0.4	9.4	O K
960 min Winter	5.453	1.203	0.3	8.8	O K
1440 min Winter	5.291	1.041	0.3	7.6	O K
2160 min Winter	5.097	0.847	0.3	6.2	O K
2880 min Winter	4.943	0.693	0.2	5.1	O K
4320 min Winter	4.719	0.469	0.2	3.4	O K
5760 min Winter	4.563	0.313	0.2	2.3	O K
7200 min Winter	4.452	0.202	0.2	1.5	O K
8640 min Winter	4.371	0.121	0.1	0.9	O K
10080 min Winter	4.314	0.064	0.1	0.5	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	118
180 min Winter	24.118	174
240 min Winter	19.386	228
360 min Winter	14.268	282
480 min Winter	11.460	360
600 min Winter	9.659	434
720 min Winter	8.396	512
960 min Winter	6.724	658
1440 min Winter	4.907	940
2160 min Winter	3.573	1360
2880 min Winter	2.849	1756
4320 min Winter	2.067	2508
5760 min Winter	1.644	3240
7200 min Winter	1.377	3968
8640 min Winter	1.193	4664
10080 min Winter	1.056	5248

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Model Details

Storage is Online Cover Level (m) 6.350

Cellular Storage Structure

Invert Level (m) 4.250 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.7	7.7	1.321	0.0	24.3
1.320	7.7	24.3			

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<u>Model Details</u> Storage is Online Cover Level (m) 6.400 <u>Cellular Storage Structure</u> Invert Level (m) 4.100 Safety Factor 1.0 Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.05400 <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>7.7</td> <td>7.7</td> <td>1.321</td> <td>0.0</td> <td>24.3</td> </tr> <tr> <td>1.320</td> <td>7.7</td> <td>24.3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	7.7	7.7	1.321	0.0	24.3	1.320	7.7	24.3			
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Micro Drainage	Source Control W.12.6.1	

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.996	0.896	0.3	6.5	O K
60 min Winter	5.205	1.105	0.3	8.1	O K
120 min Winter	5.370	1.270	0.4	9.3	O K
180 min Winter	5.420	1.320	0.4	9.6	O K
240 min Winter	5.449	1.349	0.4	9.7	O K
360 min Winter	5.416	1.316	0.4	9.6	O K
480 min Winter	5.392	1.292	0.4	9.4	O K
600 min Winter	5.356	1.256	0.4	9.2	O K
720 min Winter	5.315	1.215	0.3	8.9	O K
960 min Winter	5.229	1.129	0.3	8.2	O K
1440 min Winter	5.075	0.975	0.3	7.1	O K
2160 min Winter	4.887	0.787	0.3	5.7	O K
2880 min Winter	4.739	0.639	0.2	4.7	O K
4320 min Winter	4.524	0.424	0.2	3.1	O K
5760 min Winter	4.375	0.275	0.2	2.0	O K
7200 min Winter	4.270	0.170	0.1	1.2	O K
8640 min Winter	4.194	0.094	0.1	0.7	O K
10080 min Winter	4.150	0.050	0.1	0.4	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	118
180 min Winter	24.118	174
240 min Winter	19.386	226
360 min Winter	14.268	280
480 min Winter	11.460	358
600 min Winter	9.659	434
720 min Winter	8.396	510
960 min Winter	6.724	656
1440 min Winter	4.907	940
2160 min Winter	3.573	1344
2880 min Winter	2.849	1756
4320 min Winter	2.067	2508
5760 min Winter	1.644	3232
7200 min Winter	1.377	3960
8640 min Winter	1.193	4592
10080 min Winter	1.056	5088

Tribrach Associates		Page 1																																																																																																																																																																																													
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Summer	5.254	1.154	0.3	8.4	O K	480 min Summer	5.237	1.137	0.3	8.3	O K	600 min Summer	5.213	1.113	0.3	8.1	O K	720 min Summer	5.184	1.084	0.3	7.9	O K	960 min Summer	5.127	1.027	0.3	7.5	O K	1440 min Summer	5.021	0.921	0.3	6.7	O K	2160 min Summer	4.888	0.788	0.3	5.8	O K	2880 min Summer	4.778	0.678	0.2	4.9	O K	4320 min Summer	4.608	0.508	0.2	3.7	O K	5760 min Summer	4.482	0.382	0.2	2.8	O K	7200 min Summer	4.389	0.289	0.2	2.1	O K	8640 min Summer	4.317	0.217	0.2	1.6	O K	10080 min Summer	4.259	0.159	0.1	1.2	O K	15 min Winter	4.780	0.680	0.2	5.0	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	122	180 min Summer	24.118	178	240 min Summer	19.386	204	360 min Summer	14.268	266	480 min Summer	11.460	334	600 min Summer	9.659	404	720 min Summer	8.396	472	960 min Summer	6.724	610	1440 min Summer	4.907	882	2160 min Summer	3.573	1276	2880 min Summer	2.849	1668	4320 min Summer	2.067	2420	5760 min 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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.312	1.012	0.3	9.2	O K
60 min Winter	5.556	1.256	0.4	11.5	O K
120 min Winter	6.600	2.300	0.4	13.4	FLOOD
180 min Winter	6.601	2.301	0.4	14.1	FLOOD
240 min Winter	6.601	2.301	0.4	14.3	FLOOD
360 min Winter	6.601	2.301	0.4	14.3	FLOOD
480 min Winter	6.601	2.301	0.4	14.2	FLOOD
600 min Winter	6.601	2.301	0.4	13.9	FLOOD
720 min Winter	6.601	2.301	0.4	13.5	FLOOD
960 min Winter	6.280	1.980	0.4	12.7	O K
1440 min Winter	5.524	1.224	0.4	11.2	O K
2160 min Winter	5.320	1.020	0.3	9.3	O K
2880 min Winter	5.153	0.853	0.3	7.8	O K
4320 min Winter	4.899	0.599	0.3	5.5	O K
5760 min Winter	4.717	0.417	0.2	3.8	O K
7200 min Winter	4.584	0.284	0.2	2.6	O K
8640 min Winter	4.483	0.183	0.2	1.7	O K
10080 min Winter	4.407	0.107	0.2	1.0	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	120
180 min Winter	24.118	176
240 min Winter	19.386	232
360 min Winter	14.268	334
480 min Winter	11.460	376
600 min Winter	9.659	452
720 min Winter	8.396	528
960 min Winter	6.724	676
1440 min Winter	4.907	966
2160 min Winter	3.573	1384
2880 min Winter	2.849	1788
4320 min Winter	2.067	2552
5760 min Winter	1.644	3296
7200 min Winter	1.377	4040
8640 min Winter	1.193	4752
10080 min Winter	1.056	5440

Tribrach Associates		Page 1																																																																																																																																																																																													
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Summer	5.977	1.677	0.4	12.4	O K	480 min Summer	5.861	1.561	0.4	12.3	O K	600 min Summer	5.665	1.365	0.4	12.1	O K	720 min Summer	5.599	1.299	0.4	11.8	O K	960 min Summer	5.542	1.242	0.4	11.3	O K	1440 min Summer	5.432	1.132	0.4	10.3	O K	2160 min Summer	5.290	0.990	0.3	9.0	O K	2880 min Summer	5.168	0.868	0.3	7.9	O K	4320 min Summer	4.975	0.675	0.3	6.2	O K	5760 min Summer	4.828	0.528	0.2	4.8	O K	7200 min Summer	4.714	0.414	0.2	3.8	O K	8640 min Summer	4.624	0.324	0.2	3.0	O K	10080 min Summer	4.552	0.252	0.2	2.3	O K	15 min Winter	5.066	0.766	0.3	7.0	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	19	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	122	180 min Summer	24.118	180	240 min Summer	19.386	228	360 min Summer	14.268	286	480 min Summer	11.460	348	600 min Summer	9.659	416	720 min Summer	8.396	486	960 min Summer	6.724	626	1440 min Summer	4.907	896	2160 min Summer	3.573	1300	2880 min Summer	2.849	1700	4320 min Summer	2.067	2460	5760 min 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Summer	4.877	0.627	0.1	4.6	O K	480 min Summer	4.881	0.631	0.1	4.6	O K	600 min Summer	4.879	0.629	0.1	4.6	O K	720 min Summer	4.875	0.625	0.1	4.6	O K	960 min Summer	4.861	0.611	0.1	4.5	O K	1440 min Summer	4.826	0.576	0.1	4.2	O K	2160 min Summer	4.774	0.524	0.1	3.8	O K	2880 min Summer	4.725	0.475	0.1	3.5	O K	4320 min Summer	4.639	0.389	0.1	2.8	O K	5760 min Summer	4.567	0.317	0.1	2.3	O K	7200 min Summer	4.509	0.259	0.1	1.9	O K	8640 min Summer	4.460	0.210	0.1	1.5	O K	10080 min Summer	4.421	0.171	0.1	1.2	O K	15 min Winter	4.587	0.337	0.1	2.5	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	182	240 min Summer	9.023	240	360 min Summer	6.722	310	480 min Summer	5.449	374	600 min Summer	4.628	438	720 min Summer	4.048	506	960 min Summer	3.277	646	1440 min Summer	2.430	924	2160 min Summer	1.801	1336	2880 min Summer	1.455	1732	4320 min Summer	1.077	2508	5760 min Summer	0.870	3240	7200 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Date 21st March 2012 File SA11-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.689	0.439	0.1	3.2	O K
60 min Winter	4.792	0.542	0.1	4.0	O K
120 min Winter	4.887	0.637	0.1	4.7	O K
180 min Winter	4.932	0.682	0.1	5.0	O K
240 min Winter	4.955	0.705	0.1	5.1	O K
360 min Winter	4.972	0.722	0.1	5.3	O K
480 min Winter	4.972	0.722	0.1	5.3	O K
600 min Winter	4.970	0.720	0.1	5.3	O K
720 min Winter	4.963	0.713	0.1	5.2	O K
960 min Winter	4.942	0.692	0.1	5.1	O K
1440 min Winter	4.887	0.637	0.1	4.7	O K
2160 min Winter	4.806	0.556	0.1	4.1	O K
2880 min Winter	4.732	0.482	0.1	3.5	O K
4320 min Winter	4.609	0.359	0.1	2.6	O K
5760 min Winter	4.514	0.264	0.1	1.9	O K
7200 min Winter	4.439	0.189	0.1	1.4	O K
8640 min Winter	4.381	0.131	0.1	1.0	O K
10080 min Winter	4.336	0.086	0.1	0.6	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	176
240 min Winter	9.023	232
360 min Winter	6.722	340
480 min Winter	5.449	388
600 min Winter	4.628	464
720 min Winter	4.048	542
960 min Winter	3.277	694
1440 min Winter	2.430	996
2160 min Winter	1.801	1428
2880 min Winter	1.455	1844
4320 min Winter	1.077	2636
5760 min Winter	0.870	3400
7200 min Winter	0.737	4112
8640 min Winter	0.644	4840
10080 min Winter	0.574	5448

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Micro Drainage		Source Control W.12.6.1

Model Details

Storage is Online Cover Level (m) 6.350

Cellular Storage Structure

Invert Level (m) 4.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.7	7.7	1.321	0.0	24.3
1.320	7.7	24.3			

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14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA8.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	5.584	0.984	0.3	4.2	O K
60 min Winter	5.796	1.196	0.3	5.1	O K
120 min Winter	6.008	1.408	0.3	5.7	O K
180 min Winter	6.113	1.513	0.3	5.8	O K
240 min Winter	6.111	1.511	0.3	5.8	O K
360 min Winter	5.999	1.399	0.3	5.7	O K
480 min Winter	5.891	1.291	0.3	5.5	O K
600 min Winter	5.838	1.238	0.3	5.3	O K
720 min Winter	5.782	1.182	0.3	5.0	O K
960 min Winter	5.676	1.076	0.3	4.6	O K
1440 min Winter	5.500	0.900	0.2	3.8	O K
2160 min Winter	5.306	0.706	0.2	3.0	O K
2880 min Winter	5.166	0.566	0.2	2.4	O K
4320 min Winter	4.975	0.375	0.1	1.6	O K
5760 min Winter	4.853	0.253	0.1	1.1	O K
7200 min Winter	4.769	0.169	0.1	0.7	O K
8640 min Winter	4.708	0.108	0.1	0.5	O K
10080 min Winter	4.664	0.064	0.1	0.3	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	32
60 min Winter	52.662	60
120 min Winter	32.503	116
180 min Winter	24.118	166
240 min Winter	19.386	188
360 min Winter	14.268	264
480 min Winter	11.460	340
600 min Winter	9.659	414
720 min Winter	8.396	486
960 min Winter	6.724	626
1440 min Winter	4.907	896
2160 min Winter	3.573	1296
2880 min Winter	2.849	1672
4320 min Winter	2.067	2420
5760 min Winter	1.644	3168
7200 min Winter	1.377	3888
8640 min Winter	1.193	4584
10080 min Winter	1.056	5248

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14 Eversley Road Bexhill-on-Sea East Sussex TN40 1EU	HEARNFIELD ROAD LITTLEHAMPTON WEST SUSSEX	
Date 21st March 2012 File SA5.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.692	0.942	0.3	6.9	O K
60 min Winter	4.912	1.162	0.3	8.5	O K
120 min Winter	5.200	1.450	0.4	9.8	O K
180 min Winter	5.618	1.868	0.4	10.2	O K
240 min Winter	5.683	1.933	0.4	10.3	O K
360 min Winter	5.613	1.863	0.4	10.2	O K
480 min Winter	5.430	1.680	0.4	10.0	O K
600 min Winter	5.157	1.407	0.4	9.7	O K
720 min Winter	5.040	1.290	0.4	9.4	O K
960 min Winter	4.953	1.203	0.3	8.8	O K
1440 min Winter	4.791	1.041	0.3	7.6	O K
2160 min Winter	4.597	0.847	0.3	6.2	O K
2880 min Winter	4.443	0.693	0.2	5.1	O K
4320 min Winter	4.219	0.469	0.2	3.4	O K
5760 min Winter	4.063	0.313	0.2	2.3	O K
7200 min Winter	3.952	0.202	0.2	1.5	O K
8640 min Winter	3.871	0.121	0.1	0.9	O K
10080 min Winter	3.814	0.064	0.1	0.5	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	118
180 min Winter	24.118	174
240 min Winter	19.386	228
360 min Winter	14.268	282
480 min Winter	11.460	360
600 min Winter	9.659	434
720 min Winter	8.396	512
960 min Winter	6.724	658
1440 min Winter	4.907	940
2160 min Winter	3.573	1360
2880 min Winter	2.849	1756
4320 min Winter	2.067	2508
5760 min Winter	1.644	3240
7200 min Winter	1.377	3968
8640 min Winter	1.193	4664
10080 min Winter	1.056	5248

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<u>Model Details</u> Storage is Online Cover Level (m) 6.050 <u>Cellular Storage Structure</u> Invert Level (m) 3.750 Safety Factor 1.0 Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.05400 <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>7.7</td> <td>7.7</td> <td>1.321</td> <td>0.0</td> <td>24.3</td> </tr> <tr> <td>1.320</td> <td>7.7</td> <td>24.3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	7.7	7.7	1.321	0.0	24.3	1.320	7.7	24.3			
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)															
0.000	7.7	7.7	1.321	0.0	24.3															
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Summer	5.468	1.318	0.7	12.8	O K	480 min Summer	5.441	1.291	0.7	12.5	O K	600 min Summer	5.407	1.257	0.7	12.2	O K	720 min Summer	5.369	1.219	0.6	11.8	O K	960 min Summer	5.292	1.142	0.6	11.1	O K	1440 min Summer	5.158	1.008	0.6	9.8	O K	2160 min Summer	5.001	0.851	0.5	8.3	O K	2880 min Summer	4.880	0.730	0.4	7.1	O K	4320 min Summer	4.702	0.552	0.4	5.4	O K	5760 min Summer	4.577	0.427	0.3	4.2	O K	7200 min Summer	4.487	0.337	0.3	3.3	O K	8640 min Summer	4.415	0.265	0.3	2.6	O K	10080 min Summer	4.361	0.211	0.2	2.1	O K	15 min Winter	4.964	0.814	0.5	7.9	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	120	180 min Summer	24.118	152	240 min Summer	19.386	182	360 min Summer	14.268	248	480 min Summer	11.460	318	600 min Summer	9.659	386	720 min Summer	8.396	456	960 min Summer	6.724	590	1440 min Summer	4.907	854	2160 min Summer	3.573	1236	2880 min Summer	2.849	1616	4320 min Summer	2.067	2376	5760 min 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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.217	1.067	0.6	10.4	O K
60 min Winter	5.454	1.304	0.7	12.7	O K
120 min Winter	6.351	2.201	0.7	14.4	FLOOD
180 min Winter	6.351	2.201	0.7	14.8	FLOOD
240 min Winter	6.351	2.201	0.7	14.7	FLOOD
360 min Winter	6.351	2.201	0.7	14.5	FLOOD
480 min Winter	6.350	2.200	0.7	14.1	FLOOD
600 min Winter	6.136	1.986	0.7	13.5	Flood Risk
720 min Winter	5.542	1.392	0.7	12.9	O K
960 min Winter	5.367	1.217	0.6	11.8	O K
1440 min Winter	5.177	1.027	0.6	10.0	O K
2160 min Winter	4.967	0.817	0.5	7.9	O K
2880 min Winter	4.813	0.663	0.4	6.4	O K
4320 min Winter	4.602	0.452	0.3	4.4	O K
5760 min Winter	4.464	0.314	0.3	3.1	O K
7200 min Winter	4.369	0.219	0.2	2.1	O K
8640 min Winter	4.299	0.149	0.2	1.4	O K
10080 min Winter	4.246	0.096	0.2	0.9	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	32
60 min Winter	52.662	60
120 min Winter	32.503	118
180 min Winter	24.118	170
240 min Winter	19.386	196
360 min Winter	14.268	270
480 min Winter	11.460	346
600 min Winter	9.659	420
720 min Winter	8.396	490
960 min Winter	6.724	634
1440 min Winter	4.907	908
2160 min Winter	3.573	1300
2880 min Winter	2.849	1696
4320 min Winter	2.067	2424
5760 min Winter	1.644	3176
7200 min Winter	1.377	3896
8640 min Winter	1.193	4592
10080 min Winter	1.056	5344

Tribrach Associates		Page 3																												
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Model Details

Storage is Online Cover Level (m) 6.600

Cellular Storage Structure

Invert Level (m) 4.300 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	9.6	9.6	1.321	0.0	26.2
1.320	9.6	26.2			

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Summer	5.977	1.677	0.4	12.4	O K	480 min Summer	5.861	1.561	0.4	12.3	O K	600 min Summer	5.665	1.365	0.4	12.1	O K	720 min Summer	5.599	1.299	0.4	11.8	O K	960 min Summer	5.542	1.242	0.4	11.3	O K	1440 min Summer	5.432	1.132	0.4	10.3	O K	2160 min Summer	5.290	0.990	0.3	9.0	O K	2880 min Summer	5.168	0.868	0.3	7.9	O K	4320 min Summer	4.975	0.675	0.3	6.2	O K	5760 min Summer	4.828	0.528	0.2	4.8	O K	7200 min Summer	4.714	0.414	0.2	3.8	O K	8640 min Summer	4.624	0.324	0.2	3.0	O K	10080 min Summer	4.552	0.252	0.2	2.3	O K	15 min Winter	5.066	0.766	0.3	7.0	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	19	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	122	180 min Summer	24.118	180	240 min Summer	19.386	228	360 min Summer	14.268	286	480 min Summer	11.460	348	600 min Summer	9.659	416	720 min Summer	8.396	486	960 min Summer	6.724	626	1440 min Summer	4.907	896	2160 min Summer	3.573	1300	2880 min Summer	2.849	1700	4320 min Summer	2.067	2460	5760 min 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Micro Drainage		Source Control W.12.6.1

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.312	1.012	0.3	9.2	O K
60 min Winter	5.556	1.256	0.4	11.5	O K
120 min Winter	6.600	2.300	0.4	13.4	FLOOD
180 min Winter	6.601	2.301	0.4	14.1	FLOOD
240 min Winter	6.601	2.301	0.4	14.3	FLOOD
360 min Winter	6.601	2.301	0.4	14.3	FLOOD
480 min Winter	6.601	2.301	0.4	14.2	FLOOD
600 min Winter	6.601	2.301	0.4	13.9	FLOOD
720 min Winter	6.601	2.301	0.4	13.5	FLOOD
960 min Winter	6.280	1.980	0.4	12.7	O K
1440 min Winter	5.524	1.224	0.4	11.2	O K
2160 min Winter	5.320	1.020	0.3	9.3	O K
2880 min Winter	5.153	0.853	0.3	7.8	O K
4320 min Winter	4.899	0.599	0.3	5.5	O K
5760 min Winter	4.717	0.417	0.2	3.8	O K
7200 min Winter	4.584	0.284	0.2	2.6	O K
8640 min Winter	4.483	0.183	0.2	1.7	O K
10080 min Winter	4.407	0.107	0.2	1.0	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	33
60 min Winter	52.662	62
120 min Winter	32.503	120
180 min Winter	24.118	176
240 min Winter	19.386	232
360 min Winter	14.268	334
480 min Winter	11.460	376
600 min Winter	9.659	452
720 min Winter	8.396	528
960 min Winter	6.724	676
1440 min Winter	4.907	966
2160 min Winter	3.573	1384
2880 min Winter	2.849	1788
4320 min Winter	2.067	2552
5760 min Winter	1.644	3296
7200 min Winter	1.377	4040
8640 min Winter	1.193	4752
10080 min Winter	1.056	5440

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Model Details

Storage is Online Cover Level (m) 6.600

Cellular Storage Structure

Invert Level (m) 4.300 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
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Summary of Results for 100 year Return Period (+20%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	5.133	0.983	0.5	9.6	O K
60 min Winter	5.350	1.200	0.6	11.6	O K
120 min Winter	5.766	1.616	0.7	13.1	O K
180 min Winter	6.061	1.911	0.7	13.4	Flood Risk
240 min Winter	6.044	1.894	0.7	13.4	O K
360 min Winter	5.829	1.679	0.7	13.2	O K
480 min Winter	5.462	1.312	0.7	12.7	O K
600 min Winter	5.410	1.260	0.7	12.2	O K
720 min Winter	5.356	1.206	0.6	11.7	O K
960 min Winter	5.252	1.102	0.6	10.7	O K
1440 min Winter	5.076	0.926	0.5	9.0	O K
2160 min Winter	4.880	0.730	0.4	7.1	O K
2880 min Winter	4.736	0.586	0.4	5.7	O K
4320 min Winter	4.540	0.390	0.3	3.8	O K
5760 min Winter	4.413	0.263	0.3	2.6	O K
7200 min Winter	4.325	0.175	0.2	1.7	O K
8640 min Winter	4.261	0.111	0.2	1.1	O K
10080 min Winter	4.215	0.065	0.2	0.6	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	75.913	32
60 min Winter	48.611	60
120 min Winter	30.003	116
180 min Winter	22.262	168
240 min Winter	17.895	190
360 min Winter	13.170	266
480 min Winter	10.578	342
600 min Winter	8.916	416
720 min Winter	7.750	490
960 min Winter	6.206	634
1440 min Winter	4.529	908
2160 min Winter	3.298	1300
2880 min Winter	2.630	1676
4320 min Winter	1.908	2424
5760 min Winter	1.518	3168
7200 min Winter	1.271	3888
8640 min Winter	1.101	4584
10080 min Winter	0.975	5248

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Date 21st March 2012 File SA9-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.770	0.470	0.1	4.3	O K
60 min Winter	4.882	0.582	0.1	5.3	O K
120 min Winter	4.989	0.689	0.1	6.3	O K
180 min Winter	5.042	0.742	0.1	6.8	O K
240 min Winter	5.072	0.772	0.1	7.0	O K
360 min Winter	5.099	0.799	0.1	7.3	O K
480 min Winter	5.103	0.803	0.1	7.3	O K
600 min Winter	5.101	0.801	0.1	7.3	O K
720 min Winter	5.097	0.797	0.1	7.3	O K
960 min Winter	5.079	0.779	0.1	7.1	O K
1440 min Winter	5.029	0.729	0.1	6.6	O K
2160 min Winter	4.949	0.649	0.1	5.9	O K
2880 min Winter	4.873	0.573	0.1	5.2	O K
4320 min Winter	4.742	0.442	0.1	4.0	O K
5760 min Winter	4.636	0.336	0.1	3.1	O K
7200 min Winter	4.551	0.251	0.1	2.3	O K
8640 min Winter	4.482	0.182	0.1	1.7	O K
10080 min Winter	4.426	0.126	0.1	1.1	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	120
180 min Winter	11.113	178
240 min Winter	9.023	234
360 min Winter	6.722	344
480 min Winter	5.449	446
600 min Winter	4.628	480
720 min Winter	4.048	556
960 min Winter	3.277	712
1440 min Winter	2.430	1012
2160 min Winter	1.801	1452
2880 min Winter	1.455	1876
4320 min Winter	1.077	2680
5760 min Winter	0.870	3464
7200 min Winter	0.737	4184
8640 min Winter	0.644	4928
10080 min Winter	0.574	5640

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Model Details

Storage is Online Cover Level (m) 6.600

Cellular Storage Structure

Invert Level (m) 4.300 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	9.6	9.6	1.321	0.0	26.2
1.320	9.6	26.2			

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Summer	4.842	0.692	0.2	6.7	O K	480 min Summer	4.845	0.695	0.2	6.8	O K	600 min Summer	4.842	0.692	0.2	6.7	O K	720 min Summer	4.836	0.686	0.2	6.7	O K	960 min Summer	4.817	0.667	0.2	6.5	O K	1440 min Summer	4.773	0.623	0.2	6.1	O K	2160 min Summer	4.711	0.561	0.2	5.4	O K	2880 min Summer	4.655	0.505	0.2	4.9	O K	4320 min Summer	4.563	0.413	0.2	4.0	O K	5760 min Summer	4.490	0.340	0.1	3.3	O K	7200 min Summer	4.432	0.282	0.1	2.7	O K	8640 min Summer	4.386	0.236	0.1	2.3	O K	10080 min Summer	4.346	0.196	0.1	1.9	O K	15 min Winter	4.535	0.385	0.2	3.7	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	57.378	19	30 min Summer	37.853	33	60 min Summer	24.003	62	120 min Summer	14.844	122	180 min Summer	11.113	180	240 min Summer	9.023	226	360 min Summer	6.722	284	480 min Summer	5.449	348	600 min Summer	4.628	416	720 min Summer	4.048	486	960 min Summer	3.277	626	1440 min Summer	2.430	896	2160 min Summer	1.801	1300	2880 min Summer	1.455	1700	4320 min Summer	1.077	2464	5760 min Summer	0.870	3176	7200 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Date 21st March 2012 File SA6-10yr.srcx	Designed by BRC Checked by	
Micro Drainage		Source Control W.12.6.1

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.650	0.500	0.2	4.9	O K
60 min Winter	4.765	0.615	0.2	6.0	O K
120 min Winter	4.866	0.716	0.2	7.0	O K
180 min Winter	4.910	0.760	0.2	7.4	O K
240 min Winter	4.929	0.779	0.2	7.6	O K
360 min Winter	4.939	0.789	0.2	7.7	O K
480 min Winter	4.941	0.791	0.2	7.7	O K
600 min Winter	4.934	0.784	0.2	7.6	O K
720 min Winter	4.922	0.772	0.2	7.5	O K
960 min Winter	4.891	0.741	0.2	7.2	O K
1440 min Winter	4.823	0.673	0.2	6.5	O K
2160 min Winter	4.728	0.578	0.2	5.6	O K
2880 min Winter	4.648	0.498	0.2	4.8	O K
4320 min Winter	4.523	0.373	0.2	3.6	O K
5760 min Winter	4.432	0.282	0.1	2.7	O K
7200 min Winter	4.362	0.212	0.1	2.1	O K
8640 min Winter	4.307	0.157	0.1	1.5	O K
10080 min Winter	4.264	0.114	0.1	1.1	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	37.853	33
60 min Winter	24.003	62
120 min Winter	14.844	118
180 min Winter	11.113	176
240 min Winter	9.023	230
360 min Winter	6.722	292
480 min Winter	5.449	368
600 min Winter	4.628	446
720 min Winter	4.048	522
960 min Winter	3.277	674
1440 min Winter	2.430	966
2160 min Winter	1.801	1384
2880 min Winter	1.455	1788
4320 min Winter	1.077	2556
5760 min Winter	0.870	3336
7200 min Winter	0.737	4040
8640 min Winter	0.644	4760
10080 min Winter	0.574	5456

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Model Details

Storage is Online Cover Level (m) 6.350

Cellular Storage Structure

Invert Level (m) 4.150 Safety Factor 1.0
Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.05400

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
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Summer	5.263	1.213	0.3	5.9	O K	480 min Summer	5.235	1.185	0.3	5.8	O K	600 min Summer	5.199	1.149	0.3	5.6	O K	720 min Summer	5.162	1.112	0.3	5.4	O K	960 min Summer	5.088	1.038	0.3	5.0	O K	1440 min Summer	4.961	0.911	0.3	4.4	O K	2160 min Summer	4.812	0.762	0.2	3.7	O K	2880 min Summer	4.699	0.649	0.2	3.2	O K	4320 min Summer	4.533	0.483	0.2	2.3	O K	5760 min Summer	4.419	0.369	0.2	1.8	O K	7200 min Summer	4.336	0.286	0.1	1.4	O K	8640 min Summer	4.272	0.222	0.1	1.1	O K	10080 min Summer	4.222	0.172	0.1	0.8	O K	15 min Winter	4.811	0.761	0.2	3.7	O K	Storm Event	Rain (mm/hr)	Time-Peak (mins)	15 min Summer	122.433	18	30 min Summer	82.239	33	60 min Summer	52.662	62	120 min Summer	32.503	120	180 min Summer	24.118	148	240 min Summer	19.386	180	360 min Summer	14.268	246	480 min Summer	11.460	316	600 min Summer	9.659	386	720 min Summer	8.396	454	960 min Summer	6.724	588	1440 min Summer	4.907	852	2160 min Summer	3.573	1236	2880 min Summer	2.849	1616	4320 min Summer	2.067	2336	5760 min 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Date 21st March 2012 File SA7.srcx	Designed by BRC Checked by	
Micro Drainage	Source Control W.12.6.1	

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.047	0.997	0.3	4.8	O K
60 min Winter	5.264	1.214	0.3	5.9	O K
120 min Winter	5.581	1.531	0.4	6.6	O K
180 min Winter	5.715	1.665	0.4	6.8	O K
240 min Winter	5.709	1.659	0.4	6.7	O K
360 min Winter	5.585	1.535	0.4	6.6	O K
480 min Winter	5.366	1.316	0.4	6.4	O K
600 min Winter	5.312	1.262	0.3	6.1	O K
720 min Winter	5.256	1.206	0.3	5.9	O K
960 min Winter	5.149	1.099	0.3	5.3	O K
1440 min Winter	4.970	0.920	0.3	4.5	O K
2160 min Winter	4.774	0.724	0.2	3.5	O K
2880 min Winter	4.631	0.581	0.2	2.8	O K
4320 min Winter	4.437	0.387	0.2	1.9	O K
5760 min Winter	4.312	0.262	0.1	1.3	O K
7200 min Winter	4.226	0.176	0.1	0.9	O K
8640 min Winter	4.164	0.114	0.1	0.6	O K
10080 min Winter	4.118	0.068	0.1	0.3	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
30 min Winter	82.239	32
60 min Winter	52.662	60
120 min Winter	32.503	116
180 min Winter	24.118	168
240 min Winter	19.386	188
360 min Winter	14.268	266
480 min Winter	11.460	340
600 min Winter	9.659	414
720 min Winter	8.396	486
960 min Winter	6.724	626
1440 min Winter	4.907	898
2160 min Winter	3.573	1296
2880 min Winter	2.849	1672
4320 min Winter	2.067	2420
5760 min Winter	1.644	3168
7200 min Winter	1.377	3888
8640 min Winter	1.193	4584
10080 min Winter	1.056	5248

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<u>Model Details</u> Storage is Online Cover Level (m) 6.550 <u>Cellular Storage Structure</u> Invert Level (m) 4.050 Safety Factor 1.0 Infiltration Coefficient Base (m/hr) 0.05400 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.05400 <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>5.1</td> <td>5.1</td> <td>1.321</td> <td>0.0</td> <td>23.8</td> </tr> <tr> <td>1.320</td> <td>5.1</td> <td>23.8</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	5.1	5.1	1.321	0.0	23.8	1.320	5.1	23.8			
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