

Robert Clark Associates					Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+30%) Half Drain Time : 505 minutes. <table><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>4.198</td><td>0.298</td><td>0.0</td><td>0.8</td><td>0 K</td></tr><tr><td>30 min Summer</td><td>4.296</td><td>0.396</td><td>0.0</td><td>1.1</td><td>0 K</td></tr><tr><td>60 min Summer</td><td>4.396</td><td>0.496</td><td>0.0</td><td>1.4</td><td>0 K</td></tr><tr><td>120 min Summer</td><td>4.488</td><td>0.588</td><td>0.0</td><td>1.7</td><td>0 K</td></tr><tr><td>180 min Summer</td><td>4.530</td><td>0.630</td><td>0.0</td><td>1.8</td><td>0 K</td></tr><tr><td>240 min Summer</td><td>4.549</td><td>0.649</td><td>0.0</td><td>1.8</td><td>0 K</td></tr><tr><td>360 min Summer</td><td>4.560</td><td>0.660</td><td>0.0</td><td>1.9</td><td>0 K</td></tr><tr><td>480 min Summer</td><td>4.561</td><td>0.661</td><td>0.0</td><td>1.9</td><td>0 K</td></tr><tr><td>600 min Summer</td><td>4.559</td><td>0.659</td><td>0.0</td><td>1.9</td><td>0 K</td></tr><tr><td>720 min Summer</td><td>4.555</td><td>0.655</td><td>0.0</td><td>1.9</td><td>0 K</td></tr><tr><td>960 min Summer</td><td>4.541</td><td>0.641</td><td>0.0</td><td>1.8</td><td>0 K</td></tr><tr><td>1440 min Summer</td><td>4.505</td><td>0.605</td><td>0.0</td><td>1.7</td><td>0 K</td></tr><tr><td>2160 min Summer</td><td>4.452</td><td>0.552</td><td>0.0</td><td>1.6</td><td>0 K</td></tr><tr><td>2880 min Summer</td><td>4.403</td><td>0.503</td><td>0.0</td><td>1.4</td><td>0 K</td></tr><tr><td>4320 min Summer</td><td>4.320</td><td>0.420</td><td>0.0</td><td>1.2</td><td>0 K</td></tr><tr><td>5760 min Summer</td><td>4.252</td><td>0.352</td><td>0.0</td><td>1.0</td><td>0 K</td></tr><tr><td>7200 min Summer</td><td>4.196</td><td>0.296</td><td>0.0</td><td>0.8</td><td>0 K</td></tr><tr><td>8640 min 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Willow Cottage Herne Lane Rustington BN16 3EE		36 Corbishley Road Geocellular soakaway G1			
Date 7 December 2017 File Geocell front.SRCX		Designed by RTFC Checked by			
Micro Drainage		Source Control 2016.1			
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	4.344	0.444	0.0	1.3	0 K
60 min Winter	4.458	0.558	0.0	1.6	0 K
120 min Winter	4.564	0.664	0.0	1.9	0 K
180 min Winter	4.614	0.714	0.0	2.0	0 K
240 min Winter	4.638	0.738	0.0	2.1	0 K
360 min Winter	4.656	0.756	0.0	2.2	0 K
480 min Winter	4.656	0.756	0.0	2.2	0 K
600 min Winter	4.652	0.752	0.0	2.1	0 K
720 min Winter	4.646	0.746	0.0	2.1	0 K
960 min Winter	4.627	0.727	0.0	2.1	0 K
1440 min Winter	4.575	0.675	0.0	1.9	0 K
2160 min Winter	4.496	0.596	0.0	1.7	0 K
2880 min Winter	4.426	0.526	0.0	1.5	0 K
4320 min Winter	4.310	0.410	0.0	1.2	0 K
5760 min Winter	4.220	0.320	0.0	0.9	0 K
7200 min Winter	4.148	0.248	0.0	0.7	0 K
8640 min Winter	4.092	0.192	0.0	0.5	0 K
10080 min Winter	4.046	0.146	0.0	0.4	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	77.804	0.0	33		
60 min Winter	49.937	0.0	62		
120 min Winter	30.956	0.0	120		
180 min Winter	23.058	0.0	178		
240 min Winter	18.577	0.0	234		
360 min Winter	13.656	0.0	344		
480 min Winter	10.974	0.0	444		
600 min Winter	9.254	0.0	476		
720 min Winter	8.046	0.0	554		
960 min Winter	6.447	0.0	710		
1440 min Winter	4.709	0.0	1010		
2160 min Winter	3.432	0.0	1448		
2880 min Winter	2.739	0.0	1872		
4320 min Winter	1.989	0.0	2680		
5760 min Winter	1.583	0.0	3456		
7200 min Winter	1.325	0.0	4184		
8640 min Winter	1.147	0.0	4936		
10080 min Winter	1.015	0.0	5648		
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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>100</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>19.000</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>+30</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.004 <table> <tr> <th colspan="2">Time (mins)</th> <th>Area</th> </tr> <tr> <th>From:</th> <th>To:</th> <th>(ha)</th> </tr> <tr> <td>0</td> <td>4</td> <td>0.004</td> </tr> </table>			Rainfall Model	FSR	Winter Storms	Yes	Return Period (years)	100	Cv (Summer)	0.750	Region	England and Wales	Cv (Winter)	0.840	M5-60 (mm)	19.000	Shortest Storm (mins)	15	Ratio R	0.350	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+30	Time (mins)		Area	From:	To:	(ha)	0	4	0.004
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Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 5.300

Cellular Storage Structure

Invert Level (m)	3.900
Infiltration Coefficient Base (m/hr)	0.05576
Infiltration Coefficient Side (m/hr)	0.05576
Safety Factor	3.0
Porosity	0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	3.0	3.0	0.900	0.0	8.6
0.800	3.0	8.6			

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