

Robert Clark Associates					Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 2240 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>8.908</td><td>0.108</td><td>0.0</td><td>1.2</td><td>0 K</td></tr><tr><td>30 min Summer</td><td>8.944</td><td>0.144</td><td>0.0</td><td>1.6</td><td>0 K</td></tr><tr><td>60 min Summer</td><td>8.983</td><td>0.183</td><td>0.0</td><td>2.1</td><td>0 K</td></tr><tr><td>120 min Summer</td><td>9.023</td><td>0.223</td><td>0.0</td><td>2.5</td><td>0 K</td></tr><tr><td>180 min Summer</td><td>9.046</td><td>0.246</td><td>0.0</td><td>2.8</td><td>0 K</td></tr><tr><td>240 min Summer</td><td>9.060</td><td>0.260</td><td>0.0</td><td>3.0</td><td>0 K</td></tr><tr><td>360 min Summer</td><td>9.081</td><td>0.281</td><td>0.0</td><td>3.2</td><td>0 K</td></tr><tr><td>480 min Summer</td><td>9.095</td><td>0.295</td><td>0.0</td><td>3.4</td><td>0 K</td></tr><tr><td>600 min Summer</td><td>9.105</td><td>0.305</td><td>0.0</td><td>3.5</td><td>0 K</td></tr><tr><td>720 min Summer</td><td>9.112</td><td>0.312</td><td>0.0</td><td>3.6</td><td>0 K</td></tr><tr><td>960 min Summer</td><td>9.120</td><td>0.320</td><td>0.0</td><td>3.6</td><td>0 K</td></tr><tr><td>1440 min Summer</td><td>9.125</td><td>0.325</td><td>0.0</td><td>3.7</td><td>0 K</td></tr><tr><td>2160 min Summer</td><td>9.120</td><td>0.320</td><td>0.0</td><td>3.6</td><td>0 K</td></tr><tr><td>2880 min Summer</td><td>9.114</td><td>0.314</td><td>0.0</td><td>3.6</td><td>0 K</td></tr><tr><td>4320 min Summer</td><td>9.099</td><td>0.299</td><td>0.0</td><td>3.4</td><td>0 K</td></tr><tr><td>5760 min Summer</td><td>9.082</td><td>0.282</td><td>0.0</td><td>3.2</td><td>0 K</td></tr><tr><td>7200 min Summer</td><td>9.067</td><td>0.267</td><td>0.0</td><td>3.0</td><td>0 K</td></tr><tr><td>8640 min Summer</td><td>9.052</td><td>0.252</td><td>0.0</td><td>2.9</td><td>0 K</td></tr><tr><td>10080 min Summer</td><td>9.037</td><td>0.237</td><td>0.0</td><td>2.7</td><td>0 K</td></tr><tr><td>15 min Winter</td><td>8.921</td><td>0.121</td><td>0.0</td><td>1.4</td><td>0 K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>131.851</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>88.566</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>56.713</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>35.004</td><td>0.0</td><td>124</td></tr><tr><td>180 min Summer</td><td>25.973</td><td>0.0</td><td>184</td></tr><tr><td>240 min Summer</td><td>20.877</td><td>0.0</td><td>244</td></tr><tr><td>360 min Summer</td><td>15.365</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>12.341</td><td>0.0</td><td>482</td></tr><tr><td>600 min 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Summer	8.944	0.144	0.0	1.6	0 K	60 min Summer	8.983	0.183	0.0	2.1	0 K	120 min Summer	9.023	0.223	0.0	2.5	0 K	180 min Summer	9.046	0.246	0.0	2.8	0 K	240 min Summer	9.060	0.260	0.0	3.0	0 K	360 min Summer	9.081	0.281	0.0	3.2	0 K	480 min Summer	9.095	0.295	0.0	3.4	0 K	600 min Summer	9.105	0.305	0.0	3.5	0 K	720 min Summer	9.112	0.312	0.0	3.6	0 K	960 min Summer	9.120	0.320	0.0	3.6	0 K	1440 min Summer	9.125	0.325	0.0	3.7	0 K	2160 min Summer	9.120	0.320	0.0	3.6	0 K	2880 min Summer	9.114	0.314	0.0	3.6	0 K	4320 min Summer	9.099	0.299	0.0	3.4	0 K	5760 min Summer	9.082	0.282	0.0	3.2	0 K	7200 min Summer	9.067	0.267	0.0	3.0	0 K	8640 min Summer	9.052	0.252	0.0	2.9	0 K	10080 min Summer	9.037	0.237	0.0	2.7	0 K	15 min Winter	8.921	0.121	0.0	1.4	0 K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	131.851	0.0	19	30 min Summer	88.566	0.0	34	60 min Summer	56.713	0.0	64	120 min Summer	35.004	0.0	124	180 min Summer	25.973	0.0	184	240 min Summer	20.877	0.0	244	360 min 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Date 2.10.18 File G2-400.SRCX		Designed by RTFC Checked by			
Micro Drainage		Source Control 2016.1			
Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	8.961	0.161	0.0	1.8	0 K
60 min Winter	9.005	0.205	0.0	2.3	0 K
120 min Winter	9.051	0.251	0.0	2.9	0 K
180 min Winter	9.076	0.276	0.0	3.1	0 K
240 min Winter	9.093	0.293	0.0	3.3	0 K
360 min Winter	9.117	0.317	0.0	3.6	0 K
480 min Winter	9.133	0.333	0.0	3.8	0 K
600 min Winter	9.145	0.345	0.0	3.9	0 K
720 min Winter	9.153	0.353	0.0	4.0	0 K
960 min Winter	9.164	0.364	0.0	4.2	0 K
1440 min Winter	9.173	0.373	0.0	4.3	0 K
2160 min Winter	9.170	0.370	0.0	4.2	0 K
2880 min Winter	9.160	0.360	0.0	4.1	0 K
4320 min Winter	9.141	0.341	0.0	3.9	0 K
5760 min Winter	9.117	0.317	0.0	3.6	0 K
7200 min Winter	9.094	0.294	0.0	3.4	0 K
8640 min Winter	9.072	0.272	0.0	3.1	0 K
10080 min Winter	9.050	0.250	0.0	2.9	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	88.566	0.0	34		
60 min Winter	56.713	0.0	64		
120 min Winter	35.004	0.0	122		
180 min Winter	25.973	0.0	182		
240 min Winter	20.877	0.0	240		
360 min Winter	15.365	0.0	358		
480 min Winter	12.341	0.0	476		
600 min Winter	10.402	0.0	592		
720 min Winter	9.042	0.0	708		
960 min Winter	7.241	0.0	940		
1440 min Winter	5.284	0.0	1386		
2160 min Winter	3.848	0.0	2032		
2880 min Winter	3.068	0.0	2308		
4320 min Winter	2.226	0.0	3240		
5760 min Winter	1.771	0.0	4152		
7200 min Winter	1.483	0.0	5040		
8640 min Winter	1.284	0.0	5880		
10080 min Winter	1.137	0.0	6752		
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<u>Model Details</u> Storage is Online Cover Level (m) 10.000 <u>Cellular Storage Structure</u> Invert Level (m) 8.800 Infiltration Coefficient Base (m/hr) 0.01080 Infiltration Coefficient Side (m/hr) 0.01080 Safety Factor 3.0 Porosity 0.95 <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Depth (m)</th> <th style="text-align: left;">Area (m²)</th> <th style="text-align: left;">Inf. Area (m²)</th> <th style="text-align: left;">Depth (m)</th> <th style="text-align: left;">Area (m²)</th> <th style="text-align: left;">Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>12.0</td> <td>12.0</td> <td>0.500</td> <td>0.0</td> <td>17.6</td> </tr> <tr> <td>0.400</td> <td>12.0</td> <td>17.6</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	12.0	12.0	0.500	0.0	17.6	0.400	12.0	17.6			
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