

Paul Basham Associates					Page 1																																																																																																																																																																																																																		
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 177 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>15.569</td><td>0.469</td><td>1.4</td><td>14.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>15.721</td><td>0.621</td><td>1.5</td><td>19.5</td><td>O K</td></tr><tr><td>60 min Summer</td><td>15.860</td><td>0.760</td><td>1.5</td><td>23.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>15.945</td><td>0.845</td><td>1.6</td><td>26.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>15.953</td><td>0.853</td><td>1.6</td><td>26.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>15.943</td><td>0.843</td><td>1.6</td><td>26.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>15.915</td><td>0.815</td><td>1.6</td><td>25.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>15.883</td><td>0.783</td><td>1.6</td><td>24.5</td><td>O K</td></tr><tr><td>600 min Summer</td><td>15.849</td><td>0.749</td><td>1.5</td><td>23.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>15.814</td><td>0.714</td><td>1.5</td><td>22.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>15.747</td><td>0.647</td><td>1.5</td><td>20.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>15.622</td><td>0.522</td><td>1.4</td><td>16.4</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>15.468</td><td>0.368</td><td>1.3</td><td>11.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>15.351</td><td>0.251</td><td>1.2</td><td>7.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>15.202</td><td>0.102</td><td>1.1</td><td>3.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>15.149</td><td>0.049</td><td>1.0</td><td>1.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>15.141</td><td>0.041</td><td>0.9</td><td>1.3</td><td>O K</td></tr><tr><td>8640 min 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Summer	15.721	0.621	1.5	19.5	O K	60 min Summer	15.860	0.760	1.5	23.8	O K	120 min Summer	15.945	0.845	1.6	26.5	O K	180 min Summer	15.953	0.853	1.6	26.7	O K	240 min Summer	15.943	0.843	1.6	26.4	O K	360 min Summer	15.915	0.815	1.6	25.6	O K	480 min Summer	15.883	0.783	1.6	24.5	O K	600 min Summer	15.849	0.749	1.5	23.5	O K	720 min Summer	15.814	0.714	1.5	22.4	O K	960 min Summer	15.747	0.647	1.5	20.3	O K	1440 min Summer	15.622	0.522	1.4	16.4	O K	2160 min Summer	15.468	0.368	1.3	11.5	O K	2880 min Summer	15.351	0.251	1.2	7.9	O K	4320 min Summer	15.202	0.102	1.1	3.2	O K	5760 min Summer	15.149	0.049	1.0	1.5	O K	7200 min Summer	15.141	0.041	0.9	1.3	O K	8640 min Summer	15.136	0.036	0.8	1.1	O K	10080 min Summer	15.132	0.032	0.7	1.0	O K	15 min Winter	15.629	0.529	1.4	16.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	125.250	0.0	21	30 min Summer	85.368	0.0	35	60 min Summer	55.544	0.0	64	120 min Summer	34.816	0.0	120	180 min Summer	26.038	0.0	152	240 min Summer	21.042	0.0	184	360 min Summer	15.601	0.0	252	480 min Summer	12.593	0.0	322	600 min Summer	10.656	0.0	390	720 min Summer	9.290	0.0	458	960 min Summer	7.475	0.0	592	1440 min Summer	5.489	0.0	854	2160 min Summer	4.021	0.0	1232	2880 min Summer	3.220	0.0	1588	4320 min Summer	2.348	0.0	2256	5760 min Summer	1.878	0.0	2928	7200 min Summer	1.581	0.0	3672	8640 min Summer	1.373	0.0	4328	10080 min Summer	1.219	0.0	5040	15 min Winter	125.250	0.0	21
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8 Barnes Wallis Road		0.0125Ha			
Fareham PO15 5TU		INFILTRATION TRENCH			
Date 07.08.2020		Designed by RW			
File catchment D.SRCX		Checked by AS			
XP Solutions		Source Control 2014.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	15.803	0.703	1.5	22.1	O K
60 min Winter	15.966	0.866	1.6	27.1	O K
120 min Winter	16.078	0.978	1.7	30.7	O K
180 min Winter	16.090	0.990	1.7	31.0	O K
240 min Winter	16.076	0.976	1.7	30.6	O K
360 min Winter	16.038	0.938	1.7	29.4	O K
480 min Winter	15.987	0.887	1.6	27.8	O K
600 min Winter	15.934	0.834	1.6	26.2	O K
720 min Winter	15.881	0.781	1.6	24.5	O K
960 min Winter	15.777	0.677	1.5	21.2	O K
1440 min Winter	15.594	0.494	1.4	15.5	O K
2160 min Winter	15.382	0.282	1.2	8.8	O K
2880 min Winter	15.233	0.133	1.1	4.2	O K
4320 min Winter	15.144	0.044	0.9	1.4	O K
5760 min Winter	15.135	0.035	0.8	1.1	O K
7200 min Winter	15.130	0.030	0.6	0.9	O K
8640 min Winter	15.126	0.026	0.6	0.8	O K
10080 min Winter	15.123	0.023	0.5	0.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	85.368	0.0	35		
60 min Winter	55.544	0.0	64		
120 min Winter	34.816	0.0	118		
180 min Winter	26.038	0.0	170		
240 min Winter	21.042	0.0	194		
360 min Winter	15.601	0.0	270		
480 min Winter	12.593	0.0	348		
600 min Winter	10.656	0.0	422		
720 min Winter	9.290	0.0	496		
960 min Winter	7.475	0.0	638		
1440 min Winter	5.489	0.0	908		
2160 min Winter	4.021	0.0	1280		
2880 min Winter	3.220	0.0	1616		
4320 min Winter	2.348	0.0	2200		
5760 min Winter	1.878	0.0	2864		
7200 min Winter	1.581	0.0	3672		
8640 min Winter	1.373	0.0	4264		
10080 min Winter	1.219	0.0	5136		
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<u>Model Details</u> Storage is Online Cover Level (m) 17.500 <u>Cellular Storage Structure</u> Invert Level (m) 15.100 Safety Factor 4.0 Infiltration Coefficient Base (m/hr) 0.30852 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.30852 <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>33.0</td> <td>48.5</td> <td>1.000</td> <td>33.0</td> <td>79.5</td> </tr> <tr> <td>0.500</td> <td>33.0</td> <td>64.0</td> <td>1.500</td> <td>33.0</td> <td>95.0</td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	33.0	48.5	1.000	33.0	79.5	0.500	33.0	64.0	1.500	33.0	95.0
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