

The Civil Engineering Practice					Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 162 minutes. <table><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><tr><td>15 min Summer</td><td>14.218</td><td>0.768</td><td>1.2</td><td>10.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>14.457</td><td>1.007</td><td>1.2</td><td>14.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>14.676</td><td>1.226</td><td>1.2</td><td>17.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>14.816</td><td>1.366</td><td>1.2</td><td>19.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>14.844</td><td>1.394</td><td>1.2</td><td>19.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>14.840</td><td>1.390</td><td>1.2</td><td>19.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>14.807</td><td>1.357</td><td>1.2</td><td>19.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>14.754</td><td>1.304</td><td>1.2</td><td>18.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>14.692</td><td>1.242</td><td>1.2</td><td>17.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>14.627</td><td>1.177</td><td>1.2</td><td>16.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>14.500</td><td>1.050</td><td>1.2</td><td>15.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>14.283</td><td>0.833</td><td>1.2</td><td>11.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>14.085</td><td>0.635</td><td>1.2</td><td>9.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>13.992</td><td>0.542</td><td>1.0</td><td>7.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>13.874</td><td>0.424</td><td>0.8</td><td>6.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>13.799</td><td>0.349</td><td>0.6</td><td>5.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>13.750</td><td>0.300</td><td>0.5</td><td>4.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>13.715</td><td>0.265</td><td>0.5</td><td>3.8</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>13.687</td><td>0.237</td><td>0.4</td><td>3.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>14.314</td><td>0.864</td><td>1.2</td><td>12.3</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>128.238</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>86.178</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>55.250</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>34.177</td><td>0.0</td><td>118</td></tr><tr><td>180 min Summer</td><td>25.410</td><td>0.0</td><td>148</td></tr><tr><td>240 min Summer</td><td>20.436</td><td>0.0</td><td>178</td></tr><tr><td>360 min Summer</td><td>15.037</td><td>0.0</td><td>246</td></tr><tr><td>480 min Summer</td><td>12.081</td><td>0.0</td><td>314</td></tr><tr><td>600 min Summer</td><td>10.185</td><td>0.0</td><td>382</td></tr><tr><td>720 min Summer</td><td>8.854</td><td>0.0</td><td>448</td></tr><tr><td>960 min Summer</td><td>7.093</td><td>0.0</td><td>578</td></tr><tr><td>1440 min Summer</td><td>5.178</td><td>0.0</td><td>822</td></tr><tr><td>2160 min Summer</td><td>3.772</td><td>0.0</td><td>1164</td></tr><tr><td>2880 min Summer</td><td>3.009</td><td>0.0</td><td>1528</td></tr><tr><td>4320 min Summer</td><td>2.184</td><td>0.0</td><td>2248</td></tr><tr><td>5760 min Summer</td><td>1.738</td><td>0.0</td><td>2952</td></tr><tr><td>7200 min Summer</td><td>1.455</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>1.260</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.115</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>128.238</td><td>0.0</td><td>20</td></tr></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	14.218	0.768	1.2	10.9	O K	30 min Summer	14.457	1.007	1.2	14.4	O K	60 min Summer	14.676	1.226	1.2	17.5	O K	120 min Summer	14.816	1.366	1.2	19.5	O K	180 min Summer	14.844	1.394	1.2	19.9	O K	240 min Summer	14.840	1.390	1.2	19.8	O K	360 min Summer	14.807	1.357	1.2	19.3	O K	480 min Summer	14.754	1.304	1.2	18.6	O K	600 min Summer	14.692	1.242	1.2	17.7	O K	720 min Summer	14.627	1.177	1.2	16.8	O K	960 min Summer	14.500	1.050	1.2	15.0	O K	1440 min Summer	14.283	0.833	1.2	11.9	O K	2160 min Summer	14.085	0.635	1.2	9.0	O K	2880 min Summer	13.992	0.542	1.0	7.7	O K	4320 min Summer	13.874	0.424	0.8	6.0	O K	5760 min Summer	13.799	0.349	0.6	5.0	O K	7200 min Summer	13.750	0.300	0.5	4.3	O K	8640 min Summer	13.715	0.265	0.5	3.8	O K	10080 min Summer	13.687	0.237	0.4	3.4	O K	15 min Winter	14.314	0.864	1.2	12.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	128.238	0.0	19	30 min Summer	86.178	0.0	33	60 min Summer	55.250	0.0	62	120 min Summer	34.177	0.0	118	180 min Summer	25.410	0.0	148	240 min 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11 Tungsten Building George Street Fishersgate BN41 1RA			Manor Nursery Angmering West Sussex			
Date 23/09/2020 File Soakaway 5.SRCX			Designed by S Burgess Checked by SRD			
Innovyze			Source Control 2020.1			
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	14.587	1.137	1.2	16.2	O K	
60 min Winter	14.841	1.391	1.2	19.8	O K	
120 min Winter	15.018	1.568	1.2	22.3	O K	
180 min Winter	15.045	1.595	1.2	22.7	O K	
240 min Winter	15.028	1.578	1.2	22.5	O K	
360 min Winter	14.970	1.520	1.2	21.7	O K	
480 min Winter	14.881	1.431	1.2	20.4	O K	
600 min Winter	14.782	1.332	1.2	19.0	O K	
720 min Winter	14.679	1.229	1.2	17.5	O K	
960 min Winter	14.482	1.032	1.2	14.7	O K	
1440 min Winter	14.175	0.725	1.2	10.3	O K	
2160 min Winter	13.995	0.545	1.0	7.8	O K	
2880 min Winter	13.899	0.449	0.8	6.4	O K	
4320 min Winter	13.785	0.335	0.6	4.8	O K	
5760 min Winter	13.720	0.270	0.5	3.9	O K	
7200 min Winter	13.678	0.228	0.4	3.2	O K	
8640 min Winter	13.648	0.198	0.4	2.8	O K	
10080 min Winter	13.626	0.176	0.3	2.5	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	86.178	0.0	33			
60 min Winter	55.250	0.0	62			
120 min Winter	34.177	0.0	118			
180 min Winter	25.410	0.0	170			
240 min Winter	20.436	0.0	192			
360 min Winter	15.037	0.0	268			
480 min Winter	12.081	0.0	344			
600 min Winter	10.185	0.0	416			
720 min Winter	8.854	0.0	484			
960 min Winter	7.093	0.0	616			
1440 min Winter	5.178	0.0	840			
2160 min Winter	3.772	0.0	1188			
2880 min Winter	3.009	0.0	1556			
4320 min Winter	2.184	0.0	2288			
5760 min Winter	1.738	0.0	3000			
7200 min Winter	1.455	0.0	3744			
8640 min Winter	1.260	0.0	4416			
10080 min Winter	1.115	0.0	5144			
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<u>Model Details</u> Storage is Online Cover Level (m) 16.250 <u>Infiltration Trench Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Trench Width (m)</td> <td>2.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>1.37880</td> <td>Trench Length (m)</td> <td>7.5</td> </tr> <tr> <td>Safety Factor</td> <td>4.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.95</td> <td>Cap Volume Depth (m)</td> <td>1.600</td> </tr> <tr> <td>Invert Level (m)</td> <td>13.450</td> <td>Cap Infiltration Depth (m)</td> <td>0.650</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	2.0	Infiltration Coefficient Side (m/hr)	1.37880	Trench Length (m)	7.5	Safety Factor	4.0	Slope (1:X)	0.0	Porosity	0.95	Cap Volume Depth (m)	1.600	Invert Level (m)	13.450	Cap Infiltration Depth (m)	0.650
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