

The Civil Engineering Practice					Page 1																																																																																																																															
11 Tungsten Building George Street Fishersgate BN41 1RA			Manor Nursery Angmering West Sussex																																																																																																																																	
Date 27/06/2019 File Soakaway 5.SRCX			Designed by S Burgess Checked by SRD																																																																																																																																	
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<u>Summary of Results for 100 year Return Period (+40%)</u>																																																																																																																																				
Half Drain Time : 76 minutes.																																																																																																																																				
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Innovyze			Source Control 2017.1.2			
<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	14.671	1.221	2.1	15.1	O K
	60 min Winter	14.875	1.425	2.1	17.6	O K
	120 min Winter	14.939	1.489	2.1	18.4	O K
	180 min Winter	14.894	1.444	2.1	17.8	O K
	240 min Winter	14.803	1.353	2.1	16.7	O K
	360 min Winter	14.604	1.154	2.1	14.3	O K
	480 min Winter	14.414	0.964	2.1	11.9	O K
	600 min Winter	14.252	0.802	2.1	9.9	O K
	720 min Winter	14.130	0.680	2.1	8.4	O K
	960 min Winter	14.016	0.566	1.8	7.0	O K
	1440 min Winter	13.883	0.433	1.4	5.3	O K
	2160 min Winter	13.774	0.324	1.1	4.0	O K
	2880 min Winter	13.712	0.262	0.9	3.2	O K
	4320 min Winter	13.642	0.192	0.6	2.4	O K
	5760 min Winter	13.604	0.154	0.5	1.9	O K
	7200 min Winter	13.579	0.129	0.4	1.6	O K
	8640 min Winter	13.562	0.112	0.4	1.4	O K
	10080 min Winter	13.549	0.099	0.3	1.2	O K
	Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	
	30 min Winter		86.178	0.0	32	
	60 min Winter		55.250	0.0	60	
	120 min Winter		34.177	0.0	96	
	180 min Winter		25.410	0.0	134	
	240 min Winter		20.436	0.0	172	
	360 min Winter		15.037	0.0	242	
	480 min Winter		12.081	0.0	306	
	600 min Winter		10.185	0.0	364	
	720 min Winter		8.854	0.0	416	
	960 min Winter		7.093	0.0	532	
	1440 min Winter		5.178	0.0	778	
	2160 min Winter		3.772	0.0	1132	
	2880 min Winter		3.009	0.0	1500	
	4320 min Winter		2.184	0.0	2208	
	5760 min Winter		1.738	0.0	2936	
	7200 min Winter		1.455	0.0	3672	
	8640 min Winter		1.260	0.0	4400	
	10080 min Winter		1.115	0.0	5120	
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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>6.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</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)	6.5	Safety Factor	2.0	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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