

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><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>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 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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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Date 23/09/2020 File Soakaway 5.SRCX		Designed by S Burgess Checked by SRD			
Innovyze		Source Control 2020.1			
<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	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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