

AKS Ward Limited				Page 1																																																																																																																			
10 Bonhill Street London EC2A 4QJ		Littleworth School Trench Soakaway to parking Plots 104-112																																																																																																																					
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Summary of Results for 100 year Return Period (+40%)																																																																																																																							
Half Drain Time : 1433 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>7.216</td><td>0.576</td><td>0.1</td><td>9.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>7.329</td><td>0.689</td><td>0.1</td><td>11.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>7.458</td><td>0.818</td><td>0.1</td><td>13.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>7.603</td><td>0.963</td><td>0.2</td><td>16.2</td><td>O K</td></tr><tr><td>180 min Summer</td><td>8.140</td><td>1.500</td><td>0.2</td><td>17.7</td><td>FLOOD</td></tr><tr><td>240 min Summer</td><td>8.141</td><td>1.501</td><td>0.2</td><td>18.7</td><td>FLOOD</td></tr><tr><td>360 min Summer</td><td>8.143</td><td>1.503</td><td>0.2</td><td>20.2</td><td>FLOOD</td></tr><tr><td>480 min Summer</td><td>8.144</td><td>1.504</td><td>0.2</td><td>21.1</td><td>FLOOD</td></tr><tr><td>600 min Summer</td><td>8.144</td><td>1.504</td><td>0.2</td><td>21.7</td><td>FLOOD</td></tr><tr><td>720 min Summer</td><td>8.145</td><td>1.505</td><td>0.2</td><td>22.1</td><td>FLOOD</td></tr><tr><td>960 min Summer</td><td>8.144</td><td>1.504</td><td>0.2</td><td>21.7</td><td>FLOOD</td></tr><tr><td>1440 min Summer</td><td>8.143</td><td>1.503</td><td>0.2</td><td>20.6</td><td>FLOOD</td></tr><tr><td>2160 min Summer</td><td>8.142</td><td>1.502</td><td>0.2</td><td>19.3</td><td>FLOOD</td></tr><tr><td>2880 min Summer</td><td>8.141</td><td>1.501</td><td>0.2</td><td>18.0</td><td>FLOOD</td></tr><tr><td>4320 min Summer</td><td>7.903</td><td>1.263</td><td>0.2</td><td>17.1</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>7.602</td><td>0.962</td><td>0.2</td><td>16.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>7.549</td><td>0.909</td><td>0.2</td><td>15.3</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>7.499</td><td>0.859</td><td>0.1</td><td>14.4</td><td>O K</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	7.216	0.576	0.1	9.7	O K	30 min Summer	7.329	0.689	0.1	11.6	O K	60 min Summer	7.458	0.818	0.1	13.7	O K	120 min Summer	7.603	0.963	0.2	16.2	O K	180 min Summer	8.140	1.500	0.2	17.7	FLOOD	240 min Summer	8.141	1.501	0.2	18.7	FLOOD	360 min Summer	8.143	1.503	0.2	20.2	FLOOD	480 min Summer	8.144	1.504	0.2	21.1	FLOOD	600 min Summer	8.144	1.504	0.2	21.7	FLOOD	720 min Summer	8.145	1.505	0.2	22.1	FLOOD	960 min Summer	8.144	1.504	0.2	21.7	FLOOD	1440 min Summer	8.143	1.503	0.2	20.6	FLOOD	2160 min Summer	8.142	1.502	0.2	19.3	FLOOD	2880 min Summer	8.141	1.501	0.2	18.0	FLOOD	4320 min Summer	7.903	1.263	0.2	17.1	Flood Risk	5760 min Summer	7.602	0.962	0.2	16.2	O K	7200 min Summer	7.549	0.909	0.2	15.3	O K	8640 min Summer	7.499	0.859	0.1	14.4	O K
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Date 05/10/2021 15:14		Designed by KJ			
File Trench Soakaway parking ...		Checked by			
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
10080 min Summer	7.451	0.811	0.1	13.6	O K
15 min Winter	7.286	0.646	0.1	10.9	O K
30 min Winter	7.412	0.772	0.1	13.0	O K
60 min Winter	7.558	0.918	0.2	15.4	O K
120 min Winter	8.141	1.501	0.2	18.2	FLOOD
180 min Winter	8.143	1.503	0.2	19.9	FLOOD
240 min Winter	8.144	1.504	0.2	21.2	FLOOD
360 min Winter	8.146	1.506	0.2	22.9	FLOOD
480 min Winter	8.147	1.507	0.2	24.1	FLOOD
600 min Winter	8.148	1.508	0.2	24.9	FLOOD
720 min Winter	8.148	1.508	0.2	25.4	FLOOD
960 min Winter	8.148	1.508	0.2	25.2	FLOOD
1440 min Winter	8.147	1.507	0.2	24.0	FLOOD
2160 min Winter	8.145	1.505	0.2	22.3	FLOOD
2880 min Winter	8.143	1.503	0.2	20.6	FLOOD
4320 min Winter	8.142	1.502	0.2	19.0	FLOOD
5760 min Winter	8.140	1.500	0.2	17.3	FLOOD
7200 min Winter	7.588	0.948	0.2	15.9	O K
8640 min Winter	7.512	0.872	0.1	14.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
10080 min Summer	1.237	0.0	5952		
15 min Winter	168.862	0.0	26		
30 min Winter	101.413	0.0	41		
60 min Winter	60.905	0.0	70		
120 min Winter	36.578	1.4	128		
180 min Winter	27.145	3.1	186		
240 min Winter	21.967	4.4	244		
360 min Winter	16.302	6.1	360		
480 min Winter	13.193	7.3	476		
600 min Winter	11.196	8.1	592		
720 min Winter	9.790	8.6	706		
960 min Winter	7.679	8.4	928		
1440 min Winter	5.452	7.2	1342		
2160 min Winter	3.871	5.5	1652		
2880 min Winter	3.036	3.8	2108		
4320 min Winter	2.270	2.2	2988		
5760 min Winter	1.847	0.5	3816		
7200 min Winter	1.574	0.0	4680		
8640 min Winter	1.382	0.0	5456		
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10 Bonhill Street London EC2A 4QJ		Littleworth School Trench Soakaway to parking Plots 104-112			
Date 05/10/2021 15:14		Designed by KJ			
File Trench Soakaway parking ...		Checked by			
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
10080 min Winter	7.442	0.802	0.1	13.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
10080 min Winter	1.237	0.0	6264		
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<u>Model Details</u> Storage is Online Cover Level (m) 8.140 <u>Trench Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00900</td> <td>Trench Width (m)</td> <td>1.6</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.00900</td> <td>Trench Length (m)</td> <td>35.0</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>0.30</td> <td>Cap Volume Depth (m)</td> <td>1.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.640</td> <td>Cap Infiltration Depth (m)</td> <td>1.000</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00900	Trench Width (m)	1.6	Infiltration Coefficient Side (m/hr)	0.00900	Trench Length (m)	35.0	Safety Factor	2.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	1.000	Invert Level (m)	6.640	Cap Infiltration Depth (m)	1.000
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