

Rogers Cory Ptn Ltd			Page 0		
The Old School Old School Road Hook RG27 9NJ		Fontwell Eastergate Arundel			
Date 24/08/2020 22:17		Designed by Leon Darrell			
File BASIN PLUS AREAS 9 & 11&24 & 17&30&30A.SRCX		Checked by			
Micro Drainage		Source Control 2017.1.2			
Summary of Results for 100 year Return Period (+50%)					
Half Drain Time : 314 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	21.212	0.312	14.8	269.6	Flood Risk
30 min Summer	21.297	0.397	15.7	355.6	Flood Risk
60 min Summer	21.375	0.475	16.6	439.0	Flood Risk
120 min Summer	21.434	0.534	17.3	506.0	Flood Risk
180 min Summer	21.451	0.551	17.5	526.6	Flood Risk
240 min Summer	21.452	0.552	17.5	527.6	Flood Risk
360 min Summer	21.446	0.546	17.5	521.0	Flood Risk
480 min Summer	21.437	0.537	17.4	509.8	Flood Risk
600 min Summer	21.426	0.526	17.2	496.8	Flood Risk
720 min Summer	21.414	0.514	17.1	483.0	Flood Risk
960 min Summer	21.389	0.489	16.8	455.3	Flood Risk
1440 min Summer	21.341	0.441	16.2	402.1	Flood Risk
2160 min Summer	21.272	0.372	15.5	329.9	Flood Risk
2880 min Summer	21.211	0.311	14.8	268.0	Flood Risk
4320 min Summer	21.108	0.208	13.6	171.9	0 K
5760 min Summer	21.033	0.133	12.7	106.0	0 K
7200 min Summer	20.982	0.082	12.1	63.7	0 K
8640 min Summer	20.953	0.053	11.8	41.2	0 K
10080 min Summer	20.946	0.046	10.7	35.3	0 K
15 min Winter	21.246	0.346	15.2	303.2	Flood Risk
30 min Winter	21.340	0.440	16.2	400.6	Flood Risk
60 min Winter	21.426	0.526	17.2	496.8	Flood Risk
120 min Winter	21.494	0.594	18.0	577.2	Flood Risk
180 min Winter	21.517	0.617	18.1	606.2	FL00D
240 min Winter	21.523	0.623	18.1	612.8	FL00D
360 min Winter	21.515	0.615	18.1	603.1	FL00D
480 min Winter	21.504	0.604	18.1	589.3	FL00D
600 min Winter	21.489	0.589	18.0	571.6	Flood Risk
720 min Winter	21.472	0.572	17.8	551.8	Flood Risk
960 min Winter	21.437	0.537	17.4	510.3	Flood Risk
1440 min Winter	21.366	0.466	16.5	429.4	Flood Risk
2160 min Winter	21.266	0.366	15.4	322.9	Flood Risk
2880 min Winter	21.177	0.277	14.4	235.8	0 K
4320 min Winter	21.038	0.138	12.8	110.4	0 K
5760 min Winter	20.954	0.054	11.8	41.9	0 K
7200 min Winter	20.944	0.044	10.2	33.3	0 K
8640 min Winter	20.938	0.038	8.8	29.0	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	135.580	0.0	18		
30 min Summer	91.216	0.0	33		
60 min Summer	58.567	0.0	62		
120 min Summer	36.294	0.0	122		
180 min Summer	27.017	0.0	180		
240 min Summer	21.749	0.0	228		
360 min Summer	16.006	0.0	286		
480 min Summer	12.864	0.0	350		
600 min Summer	10.849	0.0	418		
720 min Summer	9.435	0.0	486		
960 min Summer	7.561	0.0	626		
1440 min Summer	5.523	0.0	896		
2160 min Summer	4.026	0.0	1296		
2880 min Summer	3.213	0.0	1672		
4320 min Summer	2.333	0.0	2380		
5760 min Summer	1.857	0.0	3112		
7200 min Summer	1.555	0.0	3752		
8640 min Summer	1.347	0.0	4408		
10080 min Summer	1.192	0.0	5136		
15 min Winter	135.580	0.0	18		
30 min Winter	91.216	0.0	33		
60 min Winter	58.567	0.0	62		
120 min Winter	36.294	0.0	120		
180 min Winter	27.017	21.3	176		
240 min Winter	21.749	27.9	232		
360 min Winter	16.006	18.1	328		
480 min Winter	12.864	4.3	372		
600 min Winter	10.849	0.0	450		
720 min Winter	9.435	0.0	528		
960 min Winter	7.561	0.0	676		
1440 min Winter	5.523	0.0	966		
2160 min Winter	4.026	0.0	1380		
2880 min Winter	3.213	0.0	1760		
4320 min Winter	2.333	0.0	2464		
5760 min Winter	1.857	0.0	3000		
7200 min Winter	1.555	0.0	3672		
8640 min Winter	1.347	0.0	4408		
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Rogers Cory Ptn Ltd		Page 1																				
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Rogers Cory Ptn Ltd		Page 3								
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Micro Drainage	Source Control 2017.1.2									
Model Details Storage is Online Cover Level (m) 21.500 Infiltration Basin Structure Invert Level (m) 20.900 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 1.00 Infiltration Coefficient Base (m/hr) 0.10700 Safety Factor 2.0 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>751.5</td><td>0.600</td><td>1217.0</td></tr></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	751.5	0.600	1217.0
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0.000	751.5	0.600	1217.0							
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