

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 24 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	53.765	0.315	0.0	0.5	0.5	0.9	O K
30 min Summer	53.825	0.375	0.0	0.5	0.5	1.1	O K
60 min Summer	53.852	0.402	0.0	0.5	0.5	1.2	O K
120 min Summer	53.828	0.378	0.0	0.5	0.5	1.1	O K
180 min Summer	53.787	0.337	0.0	0.5	0.5	1.0	O K
240 min Summer	53.748	0.298	0.0	0.4	0.4	0.9	O K
360 min Summer	53.690	0.240	0.0	0.4	0.4	0.7	O K
480 min Summer	53.647	0.197	0.0	0.4	0.4	0.6	O K
600 min Summer	53.616	0.166	0.0	0.3	0.3	0.5	O K
720 min Summer	53.591	0.141	0.0	0.3	0.3	0.4	O K
960 min Summer	53.557	0.107	0.0	0.3	0.3	0.3	O K
1440 min Summer	53.520	0.070	0.0	0.2	0.2	0.2	O K
2160 min Summer	53.495	0.045	0.0	0.2	0.2	0.1	O K
2880 min Summer	53.483	0.033	0.0	0.1	0.1	0.1	O K
4320 min Summer	53.475	0.025	0.0	0.1	0.1	0.1	O K
5760 min Summer	53.471	0.021	0.0	0.1	0.1	0.1	O K
7200 min Summer	53.469	0.019	0.0	0.1	0.1	0.1	O K
8640 min Summer	53.468	0.018	0.0	0.1	0.1	0.1	O K
10080 min Summer	53.466	0.016	0.0	0.0	0.0	0.0	O K
15 min Winter	53.766	0.316	0.0	0.5	0.5	0.9	O K
30 min Winter	53.823	0.373	0.0	0.5	0.5	1.1	O K
60 min Winter	53.839	0.389	0.0	0.5	0.5	1.2	O K
120 min Winter	53.793	0.343	0.0	0.5	0.5	1.0	O K
180 min Winter	53.738	0.288	0.0	0.4	0.4	0.9	O K
240 min Winter	53.690	0.240	0.0	0.4	0.4	0.7	O K
360 min Winter	53.625	0.175	0.0	0.3	0.3	0.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	131.851	0.0	1.2	16
30 min Summer	88.566	0.0	1.6	25
60 min Summer	56.713	0.0	2.1	42
120 min Summer	35.004	0.0	2.6	76
180 min Summer	25.973	0.0	2.9	108
240 min Summer	20.877	0.0	3.1	140
360 min Summer	15.365	0.0	3.4	202
480 min Summer	12.341	0.0	3.7	264
600 min Summer	10.402	0.0	3.9	322
720 min Summer	9.042	0.0	4.1	384
960 min Summer	7.241	0.0	4.3	502
1440 min Summer	5.284	0.0	4.7	738
2160 min Summer	3.848	0.0	5.2	1100
2880 min Summer	3.068	0.0	5.5	1468
4320 min Summer	2.226	0.0	5.9	2192
5760 min Summer	1.771	0.0	6.3	2920
7200 min Summer	1.483	0.0	6.6	3592
8640 min Summer	1.284	0.0	6.8	4392
10080 min Summer	1.137	0.0	7.0	5024
15 min Winter	131.851	0.0	1.2	16
30 min Winter	88.566	0.0	1.6	26
60 min Winter	56.713	0.0	2.1	44
120 min Winter	35.004	0.0	2.6	80
180 min Winter	25.973	0.0	2.9	114
240 min Winter	20.877	0.0	3.1	146
360 min Winter	15.365	0.0	3.4	208

Infrastruct CS Ltd		Page 2
The Stables High Cogges, Witney Oxfordshire, OX29 6UN	Gravel Trench Christian Malford SN15 4BH	
Date 19/03/2026 File 6665-MALF.SRCX	Designed by RSI Checked by MBD	
Innovyze Source Control 2020.1.3		

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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
480 min Winter	53.583	0.133	0.0	0.3	0.3	0.4	O K
600 min Winter	53.554	0.104	0.0	0.3	0.3	0.3	O K
720 min Winter	53.535	0.085	0.0	0.2	0.2	0.3	O K
960 min Winter	53.511	0.061	0.0	0.2	0.2	0.2	O K
1440 min Winter	53.488	0.038	0.0	0.1	0.1	0.1	O K
2160 min Winter	53.477	0.027	0.0	0.1	0.1	0.1	O K
2880 min Winter	53.473	0.023	0.0	0.1	0.1	0.1	O K
4320 min Winter	53.469	0.019	0.0	0.1	0.1	0.1	O K
5760 min Winter	53.466	0.016	0.0	0.0	0.0	0.0	O K
7200 min Winter	53.464	0.014	0.0	0.0	0.0	0.0	O K
8640 min Winter	53.463	0.013	0.0	0.0	0.0	0.0	O K
10080 min Winter	53.462	0.012	0.0	0.0	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
480 min Winter	12.341	0.0	3.7	268
600 min Winter	10.402	0.0	3.9	326
720 min Winter	9.042	0.0	4.1	386
960 min Winter	7.241	0.0	4.3	502
1440 min Winter	5.284	0.0	4.7	738
2160 min Winter	3.848	0.0	5.2	1076
2880 min Winter	3.068	0.0	5.5	1440
4320 min Winter	2.226	0.0	5.9	2240
5760 min Winter	1.771	0.0	6.3	2920
7200 min Winter	1.483	0.0	6.6	3672
8640 min Winter	1.284	0.0	6.8	4400
10080 min Winter	1.137	0.0	7.0	5128

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.950
Region	England and Wales	Cv (Winter)	0.950
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)		Area
From:	To:	(ha)
0	4	0.004

Infrastruct CS Ltd		Page 4
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Model Details

Storage is Online Cover Level (m) 54.050

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	0.5
Membrane Percolation (mm/hr)	1000	Length (m)	20.0
Max Percolation (l/s)	2.8	Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	53.450	Membrane Depth (m)	0

Orifice Outflow Control

Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 53.450