Summary of Results for 30 year Return Period (+45%)

Half Drain Time : 457 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	4.414	0.124	0.0	1.1	O K
30 min Summer	4.444	0.154	0.0	1.3	O K
60 min Summer	4.479	0.189	0.0	1.6	O K
120 min Summer	4.517	0.227	0.0	1.9	O K
180 min Summer	4.538	0.248	0.1	2.1	O K
240 min Summer	4.550	0.260	0.1	2.2	O K
360 min Summer	4.566	0.276	0.1	2.4	O K
480 min Summer	4.576	0.286	0.1	2.4	O K
600 min Summer	4.584	0.294	0.1	2.5	O K
720 min Summer	4.590	0.300	0.1	2.6	O K
960 min Summer	4.581	0.291	0.1	2.5	O K
1440 min Summer	4.564	0.274	0.1	2.3	O K
2160 min Summer	4.541	0.251	0.1	2.1	O K
2880 min Summer	4.520	0.230	0.0	2.0	O K
4320 min Summer	4.501	0.211	0.0	1.8	O K
5760 min Summer	4.484	0.194	0.0	1.7	O K
7200 min Summer	4.471	0.181	0.0	1.5	O K
8640 min Summer	4.459	0.169	0.0	1.4	O K
10080 min Summer	4.449	0.159	0.0	1.4	O K
15 min Winter	4.414	0.124	0.0	1.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	107.925	0.0	19
30 min Summer	67.597	0.0	33
60 min Summer	42.338	0.0	62
120 min Summer	26.518	0.0	122
180 min Summer	20.169	0.0	182
240 min Summer	16.609	0.0	240
360 min Summer	12.632	0.0	304
480 min Summer	10.403	0.0	362
600 min Summer	8.948	0.0	428
720 min Summer	7.912	0.0	494
960 min Summer	6.205	0.0	634
1440 min Summer	4.405	0.0	908
2160 min Summer	3.127	0.0	1300
2880 min Summer	2.452	0.0	1700
4320 min Summer	1.857	0.0	2464
5760 min Summer	1.524	0.0	3224
7200 min Summer	1.308	0.0	3960
8640 min Summer	1.154	0.0	4672
10080 min Summer	1.038	0.0	5440
15 min Winter	107.925	0.0	19

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Summary of Results for 30 year Return Period (+45%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.444	0.154	0.0	1.3	O K
60 min Winter	4.479	0.189	0.0	1.6	O K
120 min Winter	4.517	0.227	0.0	1.9	O K
180 min Winter	4.539	0.249	0.1	2.1	O K
240 min Winter	4.552	0.262	0.1	2.2	O K
360 min Winter	4.567	0.277	0.1	2.4	O K
480 min Winter	4.576	0.286	0.1	2.4	O K
600 min Winter	4.583	0.293	0.1	2.5	O K
720 min Winter	4.586	0.296	0.1	2.5	O K
960 min Winter	4.575	0.285	0.1	2.4	O K
1440 min Winter	4.552	0.262	0.1	2.2	O K
2160 min Winter	4.521	0.231	0.0	2.0	O K
2880 min Winter	4.497	0.207	0.0	1.8	O K
4320 min Winter	4.472	0.182	0.0	1.6	O K
5760 min Winter	4.452	0.162	0.0	1.4	O K
7200 min Winter	4.436	0.146	0.0	1.2	O K
8640 min Winter	4.424	0.134	0.0	1.1	O K
10080 min Winter	4.413	0.123	0.0	1.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	67.597	0.0	33
60 min Winter	42.338	0.0	62
120 min Winter	26.518	0.0	120
180 min Winter	20.169	0.0	176
240 min Winter	16.609	0.0	232
360 min Winter	12.632	0.0	334
480 min Winter	10.403	0.0	376
600 min Winter	8.948	0.0	452
720 min Winter	7.912	0.0	528
960 min Winter	6.205	0.0	680
1440 min Winter	4.405	0.0	968
2160 min Winter	3.127	0.0	1384
2880 min Winter	2.452	0.0	1788
4320 min Winter	1.857	0.0	2592
5760 min Winter	1.524	0.0	3344
7200 min Winter	1.308	0.0	4104
8640 min Winter	1.154	0.0	4840
10080 min Winter	1.038	0.0	5552

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	30
Site Location	500253 101363 TQ 00253 01363
C (1km)	-0.026
D1 (1km)	0.413
D2 (1km)	0.243
D3 (1km)	0.402
E (1km)	0.310
F (1km)	2.325
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+45

Time Area Diagram

Total Area (ha) 0.004

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

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Model Details

Storage is Online Cover Level (m) 5.090

Cellular Storage Structure

Invert Level (m) 4.290 Safety Factor 1.5
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.09572

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	9.0	9.0	0.500	0.0	13.8
0.400	9.0	13.8			

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