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<u>Summary of Results for 2 year Return Period</u> Half Drain Time : 668 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>0.077</td><td>0.077</td><td>0.6</td><td>15.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.100</td><td>0.100</td><td>0.6</td><td>20.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.123</td><td>0.123</td><td>0.6</td><td>25.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.161</td><td>0.161</td><td>0.6</td><td>32.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.181</td><td>0.181</td><td>0.6</td><td>36.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.193</td><td>0.193</td><td>0.6</td><td>39.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>0.204</td><td>0.204</td><td>0.6</td><td>41.3</td><td>O K</td></tr><tr><td>480 min 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Summer	0.100	0.100	0.6	20.2	O K	60 min Summer	0.123	0.123	0.6	25.0	O K	120 min Summer	0.161	0.161	0.6	32.6	O K	180 min Summer	0.181	0.181	0.6	36.7	O K	240 min Summer	0.193	0.193	0.6	39.1	O K	360 min Summer	0.204	0.204	0.6	41.3	O K	480 min Summer	0.206	0.206	0.6	41.7	O K	600 min Summer	0.205	0.205	0.6	41.5	O K	720 min Summer	0.203	0.203	0.6	41.2	O K	960 min Summer	0.198	0.198	0.6	40.2	O K	1440 min Summer	0.188	0.188	0.6	38.1	O K	2160 min Summer	0.173	0.173	0.6	35.0	O K	2880 min Summer	0.159	0.159	0.6	32.3	O K	4320 min Summer	0.139	0.139	0.6	28.1	O K	5760 min Summer	0.123	0.123	0.6	24.9	O K	7200 min Summer	0.110	0.110	0.6	22.3	O K	8640 min Summer	0.100	0.100	0.6	20.2	O K	10080 min Summer	0.092	0.092	0.6	18.6	O K	15 min Winter	0.087	0.087	0.6	17.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	37.979	0.0	22	30 min Summer	24.796	0.0	36	60 min Summer	15.642	0.0	64	120 min Summer	10.510	0.0	124	180 min Summer	8.137	0.0	184	240 min Summer	6.706	0.0	242	360 min 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480 min Winter	0.237	0.237	0.6	48.2	O K																																																																																																																																																																																														
600 min Winter	0.237	0.237	0.6	48.1	O K																																																																																																																																																																																														
720 min Winter	0.235	0.235	0.6	47.6	O K																																																																																																																																																																																														
960 min Winter	0.227	0.227	0.6	46.1	O K																																																																																																																																																																																														
1440 min Winter	0.213	0.213	0.6	43.2	O K																																																																																																																																																																																														
2160 min Winter	0.189	0.189	0.6	38.4	O K																																																																																																																																																																																														
2880 min Winter	0.167	0.167	0.6	33.9	O K																																																																																																																																																																																														
4320 min Winter	0.132	0.132	0.6	26.7	O K																																																																																																																																																																																														
5760 min Winter	0.104	0.104	0.6	21.1	O K																																																																																																																																																																																														
7200 min Winter	0.082	0.082	0.6	16.7	O K																																																																																																																																																																																														
8640 min Winter	0.066	0.066	0.6	13.4	O K																																																																																																																																																																																														
10080 min Winter	0.055	0.055	0.6	11.2	O K																																																																																																																																																																																														
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																
30 min Winter	24.796	0.0	36																																																																																																																																																																																																
60 min Winter	15.642	0.0	64																																																																																																																																																																																																
120 min Winter	10.510	0.0	122																																																																																																																																																																																																
180 min Winter	8.137	0.0	180																																																																																																																																																																																																
240 min Winter	6.706	0.0	238																																																																																																																																																																																																
360 min Winter	5.009	0.0	352																																																																																																																																																																																																
480 min Winter	4.033	0.0	466																																																																																																																																																																																																
600 min Winter	3.397	0.0	574																																																																																																																																																																																																
720 min Winter	2.948	0.0	678																																																																																																																																																																																																
960 min Winter	2.354	0.0	768																																																																																																																																																																																																
1440 min Winter	1.719	0.0	1070																																																																																																																																																																																																
2160 min Winter	1.265	0.0	1516																																																																																																																																																																																																
2880 min Winter	1.027	0.0	1940																																																																																																																																																																																																
4320 min Winter	0.784	0.0	2764																																																																																																																																																																																																
5760 min Winter	0.658	0.0	3512																																																																																																																																																																																																
7200 min Winter	0.580	0.0	4184																																																																																																																																																																																																
8640 min Winter	0.528	0.0	4848																																																																																																																																																																																																
10080 min Winter	0.491	0.0	5448																																																																																																																																																																																																
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Odyssey		Page 3
Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev B	
Date 05/10/2020 11:21 File POS_A Infiltration	Designed by AK Checked by	
XP Solutions Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	2
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.227

Time (mins)	Area		Time (mins)	Area	
From:	To:	(ha)	From:	To:	(ha)
0	4	0.154	4	8	0.073

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Odyssey		Page 4
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev B	
Date 05/10/2020 11:21 File POS_A Infiltration	Designed by AK Checked by	
XP Solutions Source Control 2020.1		

Model Details

Storage is Online Cover Level (m) 0.580

Complex Structure

Infiltration Blanket

Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	26.0
Safety Factor	2.0	Length (m)	26.0
Porosity	0.30	Cap Volume Depth (m)	0.330
Invert Level (m)	0.000		

Infiltration Basin

Invert Level (m)	0.430	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	1.00
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	680.0	0.150	728.0

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