

BuroHappold Ltd		Page 80
Camden Mill Lower Bristol Road Bath		
Date 25/11/2021 14:33 File 0041946_SURFACE WATER D...	Designed by lallen Checked by	
Innovyze Network 2020.1.3		

Summary Wizard of 720 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	4
Number of Online Controls	3	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.360
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	18.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.000	S1	7	70.414	1.155	0.000	0.07		1.7	SURCHARGED
S2.000	S2	7	70.414	0.264	0.000	0.11		3.1	FLOOD RISK
S1.001	S3	7	70.422	1.420	0.000	0.12		4.7	FLOOD RISK
S3.000	S4	7	70.408	0.992	0.000	0.03		0.6	FLOOD RISK
S4.000	SST1	7	70.410	1.457	0.000	0.75		8.2	FLOOD RISK
S1.002	S5	7	70.418	1.496	0.000	0.12		4.8	FLOOD RISK
S1.003	S6	18	69.345	0.572	0.000	0.07		5.7	SURCHARGED
S5.000	S9	16	69.343	-0.067	0.000	0.00		0.0	OK
S5.001	SST2	16	69.343	0.115	0.000	0.19		4.1	SURCHARGED
S1.004	S10	18	69.340	0.753	0.000	0.08		7.1	SURCHARGED
S6.000	S11	42	68.708	-0.122	0.000	0.08		1.5	OK
S1.005	S12	34	68.161	-0.236	0.000	0.10		8.1	OK
S7.000	S13	42	68.415	-0.109	0.000	0.17		2.3	OK
S1.006	S14	41	68.066	-0.236	0.000	0.10		12.7	OK
S1.007	S15	18	67.956	-0.108	0.000	0.14		12.7	OK
S8.000	S19	42	68.088	-0.132	0.000	0.03		0.9	OK
S9.000	S19	15	67.951	0.301	0.000	0.19		3.5	SURCHARGED
S10.000	S20	15	67.951	0.301	0.000	0.14		2.5	SURCHARGED
S1.008	S18	18	67.951	0.503	0.000	0.30		9.8	SURCHARGED

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<table><tr><th colspan="2"></th><th colspan="2">Water</th><th colspan="2">Surcharged</th><th colspan="2">Flooded</th><th colspan="2">Half Drain</th><th>Pipe</th><th rowspan="2">Status</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th><th>Time (mins)</th><th>Flow (l/s)</th></tr><tr><td>S1.000</td><td>S1</td><td>23</td><td>69.552</td><td>0.293</td><td>0.000</td><td>0.04</td><td></td><td></td><td>1.1</td><td>SURCHARGED</td></tr><tr><td>S2.000</td><td>S2</td><td>55</td><td>70.025</td><td>-0.125</td><td>0.000</td><td>0.07</td><td></td><td></td><td>1.8</td><td>OK</td></tr><tr><td>S1.001</td><td>S3</td><td>23</td><td>69.550</td><td>0.548</td><td>0.000</td><td>0.08</td><td></td><td></td><td>3.1</td><td>SURCHARGED</td></tr><tr><td>S3.000</td><td>S4</td><td>23</td><td>69.548</td><td>0.132</td><td>0.000</td><td>0.02</td><td></td><td></td><td>0.4</td><td>SURCHARGED</td></tr><tr><td>S4.000</td><td>SST1</td><td>19</td><td>69.550</td><td>0.597</td><td>0.000</td><td>0.72</td><td></td><td></td><td>7.9</td><td>SURCHARGED</td></tr><tr><td>S1.002</td><td>S5</td><td>23</td><td>69.548</td><td>0.626</td><td>0.000</td><td>0.08</td><td></td><td></td><td>3.2</td><td>SURCHARGED</td></tr><tr><td>S1.003</td><td>S6</td><td>39</td><td>69.100</td><td>0.327</td><td>0.000</td><td>0.04</td><td></td><td></td><td>3.6</td><td>SURCHARGED</td></tr><tr><td>S5.000</td><td>S9</td><td>72</td><td>69.260</td><td>-0.150</td><td>0.000</td><td>0.00</td><td></td><td></td><td>0.0</td><td>OK</td></tr><tr><td>S5.001</td><td>SST2</td><td>49</td><td>69.113</td><td>-0.116</td><td>0.000</td><td>0.12</td><td></td><td></td><td>2.6</td><td>OK</td></tr><tr><td>S1.004</td><td>S10</td><td>39</td><td>69.096</td><td>0.509</td><td>0.000</td><td>0.07</td><td></td><td></td><td>6.2</td><td>SURCHARGED</td></tr><tr><td>S6.000</td><td>S11</td><td>55</td><td>68.701</td><td>-0.129</td><td>0.000</td><td>0.05</td><td></td><td></td><td>0.9</td><td>OK</td></tr><tr><td>S1.005</td><td>S12</td><td>45</td><td>68.157</td><td>-0.239</td><td>0.000</td><td>0.09</td><td></td><td></td><td>7.0</td><td>OK</td></tr><tr><td>S7.000</td><td>S13</td><td>55</td><td>68.405</td><td>-0.119</td><td>0.000</td><td>0.10</td><td></td><td></td><td>1.4</td><td>OK</td></tr><tr><td>S1.006</td><td>S14</td><td>51</td><td>68.057</td><td>-0.244</td><td>0.000</td><td>0.08</td><td></td><td></td><td>9.7</td><td>OK</td></tr><tr><td>S1.007</td><td>S15</td><td>51</td><td>67.830</td><td>-0.234</td><td>0.000</td><td>0.11</td><td></td><td></td><td>9.7</td><td>OK</td></tr><tr><td>S8.000</td><td>S19</td><td>55</td><td>68.084</td><td>-0.136</td><td>0.000</td><td>0.02</td><td></td><td></td><td>0.5</td><td>OK</td></tr><tr><td>S9.000</td><td>S19</td><td>38</td><td>67.636</td><td>-0.014</td><td>0.000</td><td>0.07</td><td></td><td></td><td>1.4</td><td>OK</td></tr><tr><td>S10.000</td><td>S20</td><td>39</td><td>67.636</td><td>-0.014</td><td>0.000</td><td>0.05</td><td></td><td></td><td>1.0</td><td>OK</td></tr><tr><td>S1.008</td><td>S18</td><td>36</td><td>67.697</td><td>0.249</td><td>0.000</td><td>0.29</td><td></td><td></td><td>9.4</td><td>SURCHARGED</td></tr></table>													Water		Surcharged		Flooded		Half Drain		Pipe	Status	PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	S1.000	S1	23	69.552	0.293	0.000	0.04			1.1	SURCHARGED	S2.000	S2	55	70.025	-0.125	0.000	0.07			1.8	OK	S1.001	S3	23	69.550	0.548	0.000	0.08			3.1	SURCHARGED	S3.000	S4	23	69.548	0.132	0.000	0.02			0.4	SURCHARGED	S4.000	SST1	19	69.550	0.597	0.000	0.72			7.9	SURCHARGED	S1.002	S5	23	69.548	0.626	0.000	0.08			3.2	SURCHARGED	S1.003	S6	39	69.100	0.327	0.000	0.04			3.6	SURCHARGED	S5.000	S9	72	69.260	-0.150	0.000	0.00			0.0	OK	S5.001	SST2	49	69.113	-0.116	0.000	0.12			2.6	OK	S1.004	S10	39	69.096	0.509	0.000	0.07			6.2	SURCHARGED	S6.000	S11	55	68.701	-0.129	0.000	0.05			0.9	OK	S1.005	S12	45	68.157	-0.239	0.000	0.09			7.0	OK	S7.000	S13	55	68.405	-0.119	0.000	0.10			1.4	OK	S1.006	S14	51	68.057	-0.244	0.000	0.08			9.7	OK	S1.007	S15	51	67.830	-0.234	0.000	0.11			9.7	OK	S8.000	S19	55	68.084	-0.136	0.000	0.02			0.5	OK	S9.000	S19	38	67.636	-0.014	0.000	0.07			1.4	OK	S10.000	S20	39	67.636	-0.014	0.000	0.05			1.0	OK	S1.008	S18	36	67.697	0.249	0.000	0.29			9.4	SURCHARGED
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