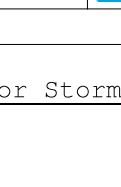


BuroHappold Ltd							Page 56																																																																																																																																																																																																																																										
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<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>31</td><td>69.194</td><td>-0.065</td><td>0.000</td><td>0.15</td><td></td><td></td><td>3.8</td><td>OK</td></tr><tr><td>S2.000</td><td>S2</td><td>33</td><td>70.049</td><td>-0.101</td><td>0.000</td><td>0.23</td><td></td><td></td><td>6.4</td><td>OK</td></tr><tr><td>S1.001</td><td>S3</td><td>31</td><td>69.192</td><td>0.190</td><td>0.000</td><td>0.25</td><td></td><td></td><td>9.9</td><td>SURCHARGED</td></tr><tr><td>S3.000</td><td>S4</td><td>36</td><td>69.289</td><td>-0.127</td><td>0.000</td><td>0.06</td><td></td><td></td><td>1.3</td><td>OK</td></tr><tr><td>S4.000</td><td>SST1</td><td>25</td><td>69.187</td><td>0.234</td><td>0.000</td><td>0.28</td><td></td><td></td><td>3.1</td><td>SURCHARGED</td></tr><tr><td>S1.002</td><td>S5</td><td>29</td><td>69.190</td><td>0.268</td><td>0.000</td><td>0.08</td><td></td><td></td><td>3.0</td><td>SURCHARGED</td></tr><tr><td>S1.003</td><td>S6</td><td>30</td><td>69.201</td><td>0.428</td><td>0.000</td><td>0.04</td><td></td><td></td><td>3.4</td><td>SURCHARGED</td></tr><tr><td>S5.000</td><td>S9</td><td>31</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>25</td><td>69.209</td><td>-0.019</td><td>0.000</td><td>0.26</td><td></td><td></td><td>5.6</td><td>OK</td></tr><tr><td>S1.004</td><td>S10</td><td>30</td><td>69.200</td><td>0.613</td><td>0.000</td><td>0.07</td><td></td><td></td><td>6.6</td><td>SURCHARGED</td></tr><tr><td>S6.000</td><td>S11</td><td>25</td><td>68.721</td><td>-0.109</td><td>0.000</td><td>0.17</td><td></td><td></td><td>3.2</td><td>OK</td></tr><tr><td>S1.005</td><td>S12</td><td>24</td><td>68.166</td><td>-0.230</td><td>0.000</td><td>0.13</td><td></td><td></td><td>9.7</td><td>OK</td></tr><tr><td>S7.000</td><td>S13</td><td>25</td><td>68.435</td><td>-0.089</td><td>0.000</td><td>0.35</td><td></td><td></td><td>4.9</td><td>OK</td></tr><tr><td>S1.006</td><td>S14</td><td>25</td><td>68.081</td><td>-0.220</td><td>0.000</td><td>0.16</td><td></td><td></td><td>19.4</td><td>OK</td></tr><tr><td>S1.007</td><td>S15</td><td>29</td><td>67.859</td><td>-0.205</td><td>0.000</td><td>0.22</td><td></td><td></td><td>19.4</td><td>OK</td></tr><tr><td>S8.000</td><td>S19</td><td>27</td><td>68.096</td><td>-0.124</td><td>0.000</td><td>0.07</td><td></td><td></td><td>1.9</td><td>OK</td></tr><tr><td>S9.000</td><td>S19</td><td>24</td><td>67.748</td><td>0.098</td><td>0.000</td><td>0.17</td><td></td><td></td><td>3.1</td><td>SURCHARGED</td></tr><tr><td>S10.000</td><td>S20</td><td>24</td><td>67.749</td><td>0.099</td><td>0.000</td><td>0.11</td><td></td><td></td><td>2.0</td><td>SURCHARGED</td></tr><tr><td>S1.008</td><td>S18</td><td>26</td><td>67.752</td><td>0.304</td><td>0.000</td><td>0.30</td><td></td><td></td><td>9.7</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	31	69.194	-0.065	0.000	0.15			3.8	OK	S2.000	S2	33	70.049	-0.101	0.000	0.23			6.4	OK	S1.001	S3	31	69.192	0.190	0.000	0.25			9.9	SURCHARGED	S3.000	S4	36	69.289	-0.127	0.000	0.06			1.3	OK	S4.000	SST1	25	69.187	0.234	0.000	0.28			3.1	SURCHARGED	S1.002	S5	29	69.190	0.268	0.000	0.08			3.0	SURCHARGED	S1.003	S6	30	69.201	0.428	0.000	0.04			3.4	SURCHARGED	S5.000	S9	31	69.260	-0.150	0.000	0.00			0.0	OK	S5.001	SST2	25	69.209	-0.019	0.000	0.26			5.6	OK	S1.004	S10	30	69.200	0.613	0.000	0.07			6.6	SURCHARGED	S6.000	S11	25	68.721	-0.109	0.000	0.17			3.2	OK	S1.005	S12	24	68.166	-0.230	0.000	0.13			9.7	OK	S7.000	S13	25	68.435	-0.089	0.000	0.35			4.9	OK	S1.006	S14	25	68.081	-0.220	0.000	0.16			19.4	OK	S1.007	S15	29	67.859	-0.205	0.000	0.22			19.4	OK	S8.000	S19	27	68.096	-0.124	0.000	0.07			1.9	OK	S9.000	S19	24	67.748	0.098	0.000	0.17			3.1	SURCHARGED	S10.000	S20	24	67.749	0.099	0.000	0.11			2.0	SURCHARGED	S1.008	S18	26	67.752	0.304	0.000	0.30			9.7	SURCHARGED
		Water		Surcharged		Flooded		Half Drain		Pipe	Status																																																																																																																																																																																																																																						
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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					
<u>Summary Wizard of 180 minute 30 year Winter I+0% for Storm</u>											
<u>Simulation Criteria</u>											
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					
<u>Synthetic Rainfall Details</u>											
Rainfall Model		FSR		Ratio R		0.360					
Region England and Wales Cv (Summer)		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									

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Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																																																																																												
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		2.000																																																																																																																																																																																																																																												
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Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																																																																																												
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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																																																																																																																																																																																																																																															
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S2.000	S2	44	70.032	-0.118	0.000	0.10			2.9	OK																																																																																																																																																																																																																																							
S1.001	S3	32	69.183	0.181	0.000	0.11			4.5	SURCHARGED																																																																																																																																																																																																																																							
S3.000	S4	46	69.282	-0.134	0.000	0.03			0.6	OK																																																																																																																																																																																																																																							
S4.000	SST1	26	69.183	0.230	0.000	0.60			6.6	SURCHARGED																																																																																																																																																																																																																																							
S1.002	S5	30	69.182	0.260	0.000	0.08			2.9	SURCHARGED																																																																																																																																																																																																																																							
S1.003	S6	37	69.120	0.347	0.000	0.04			3.3	SURCHARGED																																																																																																																																																																																																																																							
S5.000	S9	34	69.260	-0.150	0.000	0.00			0.0	OK																																																																																																																																																																																																																																							
S5.001	SST2	37	69.128	-0.101	0.000	0.17			3.7	OK																																																																																																																																																																																																																																							
S1.004	S10	37	69.119	0.532	0.000	0.07			6.3	SURCHARGED																																																																																																																																																																																																																																							
S6.000	S11	43	68.707	-0.123	0.000	0.07			1.4	OK																																																																																																																																																																																																																																							
S1.005	S12	36	68.159	-0.237	0.000	0.10			7.7	OK																																																																																																																																																																																																																																							
S7.000	S13	43	68.414	-0.110	0.000	0.16			2.2	OK																																																																																																																																																																																																																																							
S1.006	S14	42	68.064	-0.237	0.000	0.10			12.1	OK																																																																																																																																																																																																																																							
S1.007	S15	42	67.837	-0.227	0.000	0.14			12.1	OK																																																																																																																																																																																																																																							
S8.000	S19	43	68.087	-0.133	0.000	0.03			0.8	OK																																																																																																																																																																																																																																							
S9.000	S19	35	67.660	0.010	0.000	0.12			2.2	SURCHARGED																																																																																																																																																																																																																																							
S10.000	S20	37	67.660	0.010	0.000	0.09			1.7	SURCHARGED																																																																																																																																																																																																																																							
S1.008	S18	38	67.675	0.227	0.000	0.30			9.5	SURCHARGED																																																																																																																																																																																																																																							
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Camden Mill Lower Bristol Road Bath		
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Innovyze Network 2020.1.3		

Summary Wizard of 480 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	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

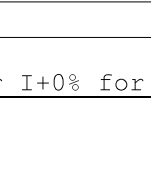
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

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 (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.000	S1	39	69.150	-0.109	0.000	0.05		1.4	OK
S2.000	S2	51	70.029	-0.121	0.000	0.08		2.3	OK
S1.001	S3	35	69.149	0.147	0.000	0.09		3.6	SURCHARGED
S3.000	S4	52	69.281	-0.135	0.000	0.02		0.5	OK
S4.000	SST1	30	69.149	0.196	0.000	0.51		5.6	SURCHARGED
S1.002	S5	33	69.152	0.230	0.000	0.08		2.9	SURCHARGED
S1.003	S6	41	69.063	0.290	0.000	0.04		3.2	SURCHARGED
S5.000	S9	35	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	40	69.117	-0.111	0.000	0.15		3.2	OK
S1.004	S10	41	69.061	0.474	0.000	0.07		6.1	SURCHARGED
S6.000	S11	51	68.704	-0.126	0.000	0.06		1.2	OK
S1.005	S12	44	68.157	-0.239	0.000	0.09		7.1	OK
S7.000	S13	51	68.409	-0.115	0.000	0.13		1.8	OK
S1.006	S14	47	68.061	-0.241	0.000	0.09		10.6	OK
S1.007	S15	47	67.833	-0.231	0.000	0.12		10.6	OK
S8.000	S19	51	68.086	-0.134	0.000	0.03		0.7	OK
S9.000	S19	40	67.608	-0.042	0.000	0.09		1.7	OK
S10.000	S20	40	67.619	-0.031	0.000	0.06		1.1	OK
S1.008	S18	48	67.621	0.173	0.000	0.29		9.3	SURCHARGED

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Camden Mill Lower Bristol Road Bath																																																																																																																																																																																																																						
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<u>Simulation Criteria</u> 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																																																																																																																																																																																																																						
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<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow Cap.</th><th rowspan="2">Half Drain Time (mins)</th><th>Pipe</th><th rowspan="2">Status</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow (l/s)</th><th>Flow (l/s)</th></tr><tr><td>S1.000</td><td>S1</td><td>54</td><td>69.129</td><td>-0.130</td><td>0.000</td><td>0.04</td><td></td><td>1.2</td><td>OK</td></tr><tr><td>S2.000</td><td>S2</td><td>53</td><td>70.026</td><td>-0.124</td><td>0.000</td><td>0.07</td><td></td><td>2.0</td><td>OK</td></tr><tr><td>S1.001</td><td>S3</td><td>41</td><td>69.118</td><td>0.116</td><td>0.000</td><td>0.09</td><td></td><td>3.6</td><td>SURCHARGED</td></tr><tr><td>S3.000</td><td>S4</td><td>54</td><td>69.279</td><td>-0.137</td><td>0.000</td><td>0.02</td><td></td><td>0.4</td><td>OK</td></tr><tr><td>S4.000</td><td>SST1</td><td>36</td><td>69.115</td><td>0.162</td><td>0.000</td><td>1.01</td><td></td><td>11.1</td><td>SURCHARGED</td></tr><tr><td>S1.002</td><td>S5</td><td>32</td><td>69.159</td><td>0.237</td><td>0.000</td><td>0.07</td><td></td><td>2.8</td><td>SURCHARGED</td></tr><tr><td>S1.003</td><td>S6</td><td>43</td><td>68.994</td><td>0.221</td><td>0.000</td><td>0.04</td><td></td><td>3.1</td><td>SURCHARGED</td></tr><tr><td>S5.000</td><td>S9</td><td>36</td><td>69.260</td><td>-0.150</td><td>0.000</td><td>0.00</td><td></td><td>0.0</td><td>OK</td></tr><tr><td>S5.001</td><td>SST2</td><td>43</td><td>69.114</td><td>-0.115</td><td>0.000</td><td>0.13</td><td></td><td>2.8</td><td>OK</td></tr><tr><td>S1.004</td><td>S10</td><td>43</td><td>68.992</td><td>0.405</td><td>0.000</td><td>0.06</td><td></td><td>5.8</td><td>SURCHARGED</td></tr><tr><td>S6.000</td><td>S11</td><td>53</td><td>68.702</td><td>-0.128</td><td>0.000</td><td>0.05</td><td></td><td>1.0</td><td>OK</td></tr><tr><td>S1.005</td><td>S12</td><td>49</td><td>68.155</td><td>-0.241</td><td>0.000</td><td>0.09</td><td></td><td>6.7</td><td>OK</td></tr><tr><td>S7.000</td><td>S13</td><td>53</td><td>68.407</td><td>-0.117</td><td>0.000</td><td>0.11</td><td></td><td>1.5</td><td>OK</td></tr><tr><td>S1.006</td><td>S14</td><td>52</td><td>68.057</td><td>-0.244</td><td>0.000</td><td>0.08</td><td></td><td>9.6</td><td>OK</td></tr><tr><td>S1.007</td><td>S15</td><td>52</td><td>67.830</td><td>-0.235</td><td>0.000</td><td>0.11</td><td></td><td>9.6</td><td>OK</td></tr><tr><td>S8.000</td><td>S19</td><td>53</td><td>68.085</td><td>-0.135</td><td>0.000</td><td>0.02</td><td></td><td>0.6</td><td>OK</td></tr><tr><td>S9.000</td><td>S19</td><td>42</td><td>67.568</td><td>-0.082</td><td>0.000</td><td>0.06</td><td></td><td>1.1</td><td>OK</td></tr><tr><td>S10.000</td><td>S20</td><td>43</td><td>67.577</td><td>-0.073</td><td>0.000</td><td>0.04</td><td></td><td>0.8</td><td>OK</td></tr><tr><td>S1.008</td><td>S18</td><td>52</td><td>67.582</td><td>0.134</td><td>0.000</td><td>0.28</td><td></td><td>9.1</td><td>SURCHARGED</td></tr></table>										PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow Cap.	Half Drain Time (mins)	Pipe	Status	Level (m)	Depth (m)	Volume (m³)	Flow (l/s)	Flow (l/s)	S1.000	S1	54	69.129	-0.130	0.000	0.04		1.2	OK	S2.000	S2	53	70.026	-0.124	0.000	0.07		2.0	OK	S1.001	S3	41	69.118	0.116	0.000	0.09		3.6	SURCHARGED	S3.000	S4	54	69.279	-0.137	0.000	0.02		0.4	OK	S4.000	SST1	36	69.115	0.162	0.000	1.01		11.1	SURCHARGED	S1.002	S5	32	69.159	0.237	0.000	0.07		2.8	SURCHARGED	S1.003	S6	43	68.994	0.221	0.000	0.04		3.1	SURCHARGED	S5.000	S9	36	69.260	-0.150	0.000	0.00		0.0	OK	S5.001	SST2	43	69.114	-0.115	0.000	0.13		2.8	OK	S1.004	S10	43	68.992	0.405	0.000	0.06		5.8	SURCHARGED	S6.000	S11	53	68.702	-0.128	0.000	0.05		1.0	OK	S1.005	S12	49	68.155	-0.241	0.000	0.09		6.7	OK	S7.000	S13	53	68.407	-0.117	0.000	0.11		1.5	OK	S1.006	S14	52	68.057	-0.244	0.000	0.08		9.6	OK	S1.007	S15	52	67.830	-0.235	0.000	0.11		9.6	OK	S8.000	S19	53	68.085	-0.135	0.000	0.02		0.6	OK	S9.000	S19	42	67.568	-0.082	0.000	0.06		1.1	OK	S10.000	S20	43	67.577	-0.073	0.000	0.04		0.8	OK	S1.008	S18	52	67.582	0.134	0.000	0.28		9.1	SURCHARGED
PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow Cap.	Half Drain Time (mins)	Pipe	Status																																																																																																																																																																																																													
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S1.004	S10	43	68.992	0.405	0.000	0.06		5.8	SURCHARGED																																																																																																																																																																																																													
S6.000	S11	53	68.702	-0.128	0.000	0.05		1.0	OK																																																																																																																																																																																																													
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S1.008	S18	52	67.582	0.134	0.000	0.28		9.1	SURCHARGED																																																																																																																																																																																																													
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Summary Wizard of 720 minute 30 year Winter I+0% 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 Coeffiecient	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	57	69.128	-0.131	0.000	0.04		1.0	OK
S2.000	S2	57	70.024	-0.126	0.000	0.06		1.7	OK
S1.001	S3	43	69.093	0.091	0.000	0.08		3.3	SURCHARGED
S3.000	S4	57	69.277	-0.139	0.000	0.02		0.4	OK
S4.000	SST1	39	69.079	0.126	0.000	0.64		7.1	SURCHARGED
S1.002	S5	41	69.122	0.200	0.000	0.07		2.7	SURCHARGED
S1.003	S6	47	68.938	0.165	0.000	0.04		3.0	SURCHARGED
S5.000	S9	37	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	51	69.112	-0.117	0.000	0.11		2.4	OK
S1.004	S10	47	68.936	0.349	0.000	0.06		5.5	SURCHARGED
S6.000	S11	57	68.700	-0.130	0.000	0.04		0.9	OK
S1.005	S12	53	68.153	-0.243	0.000	0.08		6.3	OK
S7.000	S13	57	68.405	-0.119	0.000	0.09		1.3	OK
S1.006	S14	56	68.054	-0.247	0.000	0.07		8.9	OK
S1.007	S15	56	67.827	-0.237	0.000	0.10		8.9	OK
S8.000	S19	57	68.083	-0.137	0.000	0.02		0.5	OK
S9.000	S19	48	67.532	-0.118	0.000	0.03		0.6	OK
S10.000	S20	50	67.543	-0.107	0.000	0.02		0.4	OK
S1.008	S18	55	67.556	0.108	0.000	0.27		8.9	SURCHARGED

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<u>Summary Wizard of 960 minute 30 year Winter I+0% for Storm</u>									
<u>Simulation Criteria</u>									
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			
<u>Synthetic Rainfall Details</u>									
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			

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<u>Summary Wizard of 1440 minute 30 year Winter I+0% for Storm</u>										
<u>Simulation Criteria</u>										
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				
<u>Synthetic Rainfall Details</u>										
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				

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Summary Wizard of 30 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 Coeffiecient 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

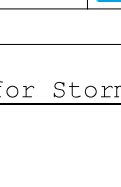
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

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	21	69.733	0.474	0.000	0.55		14.4	SURCHARGED
S2.000	S2	19	70.119	-0.031	0.000	0.99		27.3	OK
S1.001	S3	21	69.652	0.650	0.000	1.01		40.4	SURCHARGED
S3.000	S4	22	69.570	0.154	0.000	0.22		5.2	SURCHARGED
S4.000	SST1	21	69.271	0.318	0.000	0.00		0.0	SURCHARGED
S1.002	S5	22	69.557	0.635	0.000	0.06		2.4	SURCHARGED
S1.003	S6	4	69.508	0.735	0.000	0.16		13.0	SURCHARGED
S5.000	S9	10	69.391	-0.020	0.000	0.00		0.1	OK
S5.001	SST2	10	69.391	0.163	0.000	0.38		8.0	SURCHARGED
S1.004	S10	6	69.493	0.906	0.000	0.08		7.6	SURCHARGED
S6.000	S11	4	68.773	-0.057	0.000	0.71		13.7	OK
S1.005	S12	7	68.206	-0.190	0.000	0.27		21.2	OK
S7.000	S13	4	68.591	0.067	0.000	1.49		20.7	SURCHARGED
S1.006	S14	8	68.184	-0.117	0.000	0.52		63.0	OK
S1.007	S15	8	68.142	0.077	0.000	0.66		58.8	SURCHARGED
S8.000	S19	9	68.125	-0.095	0.000	0.29		8.0	OK
S9.000	S19	14	67.987	0.337	0.000	0.10		1.9	SURCHARGED
S10.000	S20	13	68.001	0.351	0.000	0.10		1.8	SURCHARGED
S1.008	S18	14	68.024	0.576	0.000	0.30		9.8	SURCHARGED

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Summary Wizard of 60 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 Coeffiecient	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	14	70.170	0.911	0.000	0.39		10.2	SURCHARGED
S2.000	S2	17	70.171	0.021	0.000	0.67		18.6	SURCHARGED
S1.001	S3	15	70.167	1.165	0.000	0.71		28.3	SURCHARGED
S3.000	S4	14	70.166	0.750	0.000	0.16		3.8	SURCHARGED
S4.000	SST1	14	70.168	1.215	0.000	0.18		2.0	SURCHARGED
S1.002	S5	15	70.165	1.243	0.000	0.10		3.9	SURCHARGED
S1.003	S6	8	69.458	0.685	0.000	0.10		8.2	SURCHARGED
S5.000	S9	4	69.453	0.043	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	4	69.453	0.225	0.000	0.29		6.2	SURCHARGED
S1.004	S10	8	69.452	0.865	0.000	0.08		7.5	SURCHARGED
S6.000	S11	7	68.753	-0.077	0.000	0.48		9.3	OK
S1.005	S12	11	68.190	-0.206	0.000	0.21		16.5	OK
S7.000	S13	7	68.511	-0.013	0.000	1.00		13.9	OK
S1.006	S14	10	68.152	-0.149	0.000	0.37		44.7	OK
S1.007	S15	10	68.129	0.064	0.000	0.50		44.4	SURCHARGED
S8.000	S19	12	68.115	-0.105	0.000	0.20		5.5	OK
S9.000	S19	8	68.098	0.448	0.000	0.05		0.9	SURCHARGED
S10.000	S20	8	68.102	0.452	0.000	0.03		0.6	SURCHARGED
S1.008	S18	8	68.106	0.658	0.000	0.30		9.8	SURCHARGED

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Summary Wizard of 120 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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	3	70.520	1.261	0.000	0.25		6.6	FLOOD RISK
S2.000	S2	4	70.505	0.355	4.568	0.43		11.8	FLOOD
S1.001	S3	4	70.512	1.510	0.000	0.45		18.0	FLOOD RISK
S3.000	S4	3	70.513	1.097	0.000	0.11		2.5	FLOOD RISK
S4.000	SST1	3	70.518	1.565	0.216	0.33		3.6	FLOOD
S1.002	S5	3	70.511	1.589	0.000	0.12		4.7	FLOOD RISK
S1.003	S6	5	69.504	0.731	0.000	0.08		6.9	SURCHARGED
S5.000	S9	2	69.501	0.090	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	2	69.501	0.272	0.000	0.29		6.3	SURCHARGED
S1.004	S10	4	69.498	0.911	0.000	0.09		7.6	SURCHARGED
S6.000	S11	14	68.736	-0.094	0.000	0.30		5.9	OK
S1.005	S12	8	68.206	-0.190	0.000	0.17		12.9	OK
S7.000	S13	14	68.462	-0.062	0.000	0.65		9.0	OK
S1.006	S14	6	68.201	-0.100	0.000	0.25		30.9	OK
S1.007	S15	4	68.193	0.128	0.000	0.35		30.8	SURCHARGED
S8.000	S19	4	68.188	-0.032	0.000	0.13		3.5	OK

Flooded volume within permeable paving build up and contained within parking spaces

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Summary Wizard of 180 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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	1	70.525	1.266	0.000	0.19		4.9	FLOOD RISK
S2.000	S2	2	70.507	0.357	7.329	0.32		8.8	FLOOD
S1.001	S3	1	70.516	1.514	0.000	0.34		13.5	FLOOD RISK
S3.000	S4	1	70.518	1.102	0.000	0.08		1.9	FLOOD RISK
S4.000	SST1	1	70.523	1.570	0.725	0.35		3.8	FLOOD
S1.002	S5	1	70.516	1.594	0.000	0.12		4.7	FLOOD RISK
S1.003	S6	6	69.504	0.731	0.000	0.09		7.2	SURCHARGED
S5.000	S9	1	69.501	0.091	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	1	69.501	0.273	0.000	0.29		6.2	SURCHARGED
S1.004	S10	5	69.498	0.911	0.000	0.09		7.6	SURCHARGED
S6.000	S11	17	68.728	-0.102	0.000	0.23		4.4	OK
S1.005	S12	5	68.238	-0.159	0.000	0.15		11.4	OK
S7.000	S13	17	68.447	-0.077	0.000	0.48		6.7	OK
S1.006	S14	4	68.243	-0.058	0.000	0.20		24.8	OK
S1.007	S15	3	68.261	0.197	0.000	0.28		24.7	SURCHARGED
S8.000	S19	2	68.225	0.005	0.000	0.10		2.6	SURCHARGED

Flooded volume within permeable paving build up and contained within parking spaces

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Summary Wizard of 240 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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	2	70.524	1.265	0.000	0.15		4.0	FLOOD RISK
S2.000	S2	1	70.508	0.358	8.377	0.26		7.1	FLOOD
S1.001	S3	2	70.516	1.514	0.000	0.28		11.0	FLOOD RISK
S3.000	S4	2	70.518	1.102	0.000	0.06		1.5	FLOOD RISK
S4.000	SST1	2	70.523	1.570	0.647	0.34		3.7	FLOOD
S1.002	S5	2	70.516	1.594	0.000	0.12		4.8	FLOOD RISK
S1.003	S6	7	69.490	0.717	0.000	0.09		7.0	SURCHARGED
S5.000	S9	3	69.487	0.077	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	3	69.487	0.259	0.000	0.29		6.2	SURCHARGED
S1.004	S10	7	69.483	0.896	0.000	0.08		7.6	SURCHARGED
S6.000	S11	22	68.723	-0.107	0.000	0.18		3.6	OK
S1.005	S12	3	68.248	-0.148	0.000	0.14		10.4	OK
S7.000	S13	22	68.439	-0.085	0.000	0.39		5.4	OK
S1.006	S14	3	68.250	-0.051	0.000	0.17		21.3	OK
S1.007	S15	1	68.325	0.261	0.000	0.24		21.3	SURCHARGED
S8.000	S19	1	68.233	0.013	0.000	0.08		2.1	SURCHARGED

Flooded volume within permeable paving build up and contained within parking spaces

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Summary Wizard of 360 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)				
S1.000	S1	4	70.517	1.258	0.000	0.11		2.9	FLOOD RISK
S2.000	S2	3	70.507	0.357	6.931	0.19		5.2	FLOOD
S1.001	S3	5	70.511	1.509	0.000	0.20		8.1	FLOOD RISK
S3.000	S4	4	70.512	1.096	0.000	0.05		1.1	FLOOD RISK
S4.000	SST1	4	70.516	1.563	0.135	0.39		4.3	FLOOD
S1.002	S5	4	70.510	1.588	0.000	0.13		4.9	FLOOD RISK
S1.003	S6	9	69.452	0.679	0.000	0.08		6.7	SURCHARGED
S5.000	S9	5	69.449	0.039	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	5	69.449	0.221	0.000	0.29		6.2	SURCHARGED
S1.004	S10	9	69.446	0.859	0.000	0.08		7.5	SURCHARGED
S6.000	S11	29	68.717	-0.113	0.000	0.14		2.6	OK
S1.005	S12	2	68.305	-0.091	0.000	0.20		15.1	OK
S7.000	S13	29	68.429	-0.095	0.000	0.29		4.0	OK
S1.006	S14	1	68.365	0.063	0.000	0.18		21.7	SURCHARGED
S1.007	S15	2	68.310	0.246	0.000	0.20		17.3	SURCHARGED
S8.000	S19	3	68.212	-0.008	0.000	0.06		1.6	OK

Flooded volume within permeable paving build up and contained within parking spaces

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Summary Wizard of 480 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)				
S1.000	S1	5	70.509	1.250	0.000	0.09		2.4	FLOOD RISK
S2.000	S2	5	70.504	0.354	4.225	0.15		4.2	FLOOD
S1.001	S3	6	70.503	1.501	0.000	0.16		6.5	FLOOD RISK
S3.000	S4	5	70.503	1.087	0.000	0.04		0.9	FLOOD RISK
S4.000	SST1	5	70.508	1.555	0.006	0.54		5.9	FLOOD
S1.002	S5	6	70.502	1.580	0.000	0.13		4.9	FLOOD RISK
S1.003	S6	13	69.421	0.648	0.000	0.08		6.3	SURCHARGED
S5.000	S9	8	69.418	0.007	0.000	0.00		0.0	SURCHARGED
S5.001	SST2	8	69.418	0.189	0.000	0.28		6.0	SURCHARGED
S1.004	S10	13	69.414	0.827	0.000	0.08		7.4	SURCHARGED
S6.000	S11	34	68.713	-0.117	0.000	0.11		2.1	OK
S1.005	S12	18	68.176	-0.220	0.000	0.11		8.8	OK
S7.000	S13	34	68.423	-0.101	0.000	0.23		3.2	OK
S1.006	S14	9	68.159	-0.143	0.000	0.12		15.1	OK
S1.007	S15	5	68.183	0.119	0.000	0.17		15.1	SURCHARGED
S8.000	S19	5	68.142	-0.078	0.000	0.05		1.2	OK

Flooded volume within permeable paving build up and contained within parking spaces

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Summary Wizard of 600 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Flooded Volume (m ³)				
S1.000	S1	6	70.504	1.245	0.000	0.08		2.0	FLOOD RISK
S2.000	S2	6	70.501	0.351	1.273	0.13		3.5	FLOOD
S1.001	S3	3	70.513	1.511	0.000	0.14		5.5	FLOOD RISK
S3.000	S4	6	70.498	1.082	0.000	0.03		0.7	FLOOD RISK
S4.000	SST1	6	70.501	1.548	0.000	0.39		4.3	FLOOD RISK
S1.002	S5	5	70.507	1.585	0.000	0.13		5.0	FLOOD RISK
S1.003	S6	15	69.387	0.614	0.000	0.07		6.1	SURCHARGED
S5.000	S9	11	69.384	-0.026	0.000	0.00		0.0	OK
S5.001	SST2	11	69.384	0.156	0.000	0.24		5.2	SURCHARGED
S1.004	S10	15	69.381	0.794	0.000	0.08		7.2	SURCHARGED
S6.000	S11	39	68.710	-0.120	0.000	0.09		1.8	OK
S1.005	S12	30	68.162	-0.235	0.000	0.11		8.4	OK
S7.000	S13	39	68.419	-0.105	0.000	0.19		2.7	OK
S1.006	S14	19	68.109	-0.192	0.000	0.11		13.7	OK
S1.007	S15	14	68.090	0.026	0.000	0.15		13.7	SURCHARGED
S8.000	S19	37	68.090	-0.130	0.000	0.04		1.0	OK

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<u>Summary Wizard of 600 minute 100 year Winter I+40% for Storm</u>										
			Water	Surcharged	Flooded			Half Drain	Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Time	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status
S9.000	S19	11	68.052	0.402	0.000	0.21			3.9	SURCHARGED
S10.000	S20	11	68.052	0.402	0.000	0.14			2.7	SURCHARGED
S1.008	S18	9	68.104	0.656	0.000	0.30			9.8	SURCHARGED

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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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