

BuroHappold Ltd

Camden Mill
Lower Bristol Road
Bath

Date 25/11/2021 14:33
File 0041946_SURFACE WATER D...

Innovyze

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Checked by

Network 2020.1.3

Summary Wizard of 60 minute 100 year Summer 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

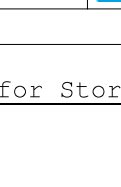
Rainfall Model FSR Ratio R 0.360
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 18.000 Cv (Winter) 0.840

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.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.000	S1	22	69.601	0.342	0.000	0.47		12.3	SURCHARGED
S2.000	S2	21	70.105	-0.045	0.000	0.83		23.0	OK
S1.001	S3	22	69.571	0.569	0.000	0.86		34.2	SURCHARGED
S3.000	S4	21	69.570	0.154	0.000	0.19		4.4	SURCHARGED
S4.000	SST1	18	69.571	0.618	0.000	0.08		0.9	SURCHARGED
S1.002	S5	21	69.570	0.648	0.000	0.06		2.3	SURCHARGED
S1.003	S6	10	69.431	0.658	0.000	0.13		10.6	SURCHARGED
S5.000	S9	13	69.383	-0.028	0.000	0.00		0.1	OK
S5.001	SST2	13	69.383	0.154	0.000	0.29		6.2	SURCHARGED
S1.004	S10	10	69.419	0.832	0.000	0.08		7.4	SURCHARGED
S6.000	S11	5	68.763	-0.067	0.000	0.60		11.5	OK
S1.005	S12	9	68.196	-0.200	0.000	0.24		18.8	OK
S7.000	S13	5	68.552	0.028	0.000	1.26		17.5	SURCHARGED
S1.006	S14	11	68.142	-0.160	0.000	0.44		54.2	OK
S1.007	S15	15	68.079	0.015	0.000	0.59		52.8	SURCHARGED
S8.000	S19	10	68.120	-0.100	0.000	0.25		6.8	OK
S9.000	S19	12	68.010	0.360	0.000	0.08		1.5	SURCHARGED
S10.000	S20	12	68.014	0.364	0.000	0.05		1.0	SURCHARGED
S1.008	S18	16	68.017	0.569	0.000	0.30		9.7	SURCHARGED

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Summary Wizard of 120 minute 100 year Summer 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	13	70.175	0.916	0.000	0.33		8.6	SURCHARGED
S2.000	S2	15	70.176	0.026	0.000	0.56		15.6	SURCHARGED
S1.001	S3	13	70.171	1.169	0.000	0.59		23.6	SURCHARGED
S3.000	S4	13	70.170	0.754	0.000	0.14		3.3	SURCHARGED
S4.000	SST1	13	70.172	1.219	0.000	0.15		1.7	SURCHARGED
S1.002	S5	13	70.169	1.247	0.000	0.10		4.0	SURCHARGED
S1.003	S6	12	69.424	0.651	0.000	0.08		6.6	SURCHARGED
S5.000	S9	7	69.422	0.012	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	7	69.422	0.194	0.000	0.29		6.2	SURCHARGED
S1.004	S10	12	69.418	0.831	0.000	0.08		7.4	SURCHARGED
S6.000	S11	10	68.746	-0.084	0.000	0.40		7.8	OK
S1.005	S12	14	68.185	-0.211	0.000	0.19		14.9	OK
S7.000	S13	10	68.481	-0.043	0.000	0.85		11.8	OK
S1.006	S14	17	68.117	-0.184	0.000	0.32		38.7	OK
S1.007	S15	13	68.092	0.028	0.000	0.44		38.7	SURCHARGED
S8.000	S19	16	68.111	-0.109	0.000	0.17		4.6	OK
S9.000	S19	9	68.083	0.433	0.000	0.15		2.9	SURCHARGED
S10.000	S20	9	68.084	0.434	0.000	0.11		2.1	SURCHARGED
S1.008	S18	10	68.087	0.639	0.000	0.30		9.8	SURCHARGED

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Summary Wizard of 180 minute 100 year Summer 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	10	70.314	1.055	0.000	0.25		6.6	SURCHARGED
S2.000	S2	10	70.314	0.164	0.000	0.43		12.0	FLOOD RISK
S1.001	S3	10	70.322	1.320	0.000	0.45		18.0	SURCHARGED
S3.000	S4	10	70.309	0.893	0.000	0.11		2.5	SURCHARGED
S4.000	SST1	10	70.311	1.358	0.000	0.27		3.0	FLOOD RISK
S1.002	S5	10	70.318	1.396	0.000	0.11		4.3	FLOOD RISK
S1.003	S6	11	69.425	0.652	0.000	0.07		5.4	SURCHARGED
S5.000	S9	6	69.423	0.013	0.000	0.00		0.1	SURCHARGED
S5.001	SST2	6	69.423	0.195	0.000	0.29		6.1	SURCHARGED
S1.004	S10	11	69.419	0.832	0.000	0.08		7.4	SURCHARGED
S6.000	S11	13	68.737	-0.093	0.000	0.31		6.0	OK
S1.005	S12	17	68.178	-0.218	0.000	0.17		12.9	OK
S7.000	S13	13	68.463	-0.061	0.000	0.66		9.1	OK
S1.006	S14	16	68.120	-0.181	0.000	0.26		31.3	OK
S1.007	S15	12	68.113	0.049	0.000	0.35		31.3	SURCHARGED
S8.000	S19	18	68.109	-0.111	0.000	0.13		3.5	OK
S9.000	S19	7	68.105	0.455	0.000	0.17		3.1	SURCHARGED
S10.000	S20	7	68.107	0.457	0.000	0.10		1.9	SURCHARGED
S1.008	S18	7	68.108	0.660	0.000	0.30		9.8	SURCHARGED

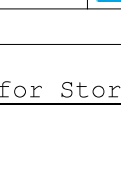
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<u>Summary Wizard of 360 minute 100 year Summer I+40% for Storm</u>									
<u>Simulation Criteria</u>									
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow		0.000			
Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		2.000			
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 480 minute 100 year Summer I+40% 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 600 minute 100 year Summer I+40% 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																			
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Half Drain Time</th><th>Pipe Flow</th><th rowspan="2">Status</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Flow / Overflow Cap.</th><th>(l/s)</th><th>(mins)</th><th>(l/s)</th></tr></table>										PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Half Drain Time	Pipe Flow	Status	(m)	(m)	(m³)	Flow / Overflow Cap.	(l/s)	(mins)	(l/s)
PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Half Drain Time	Pipe Flow	Status																	
			(m)	(m)	(m³)	Flow / Overflow Cap.	(l/s)		(mins)	(l/s)															
S1.000	S1	12	70.207	0.948	0.000	0.11		2.7	SURCHARGED																
S2.000	S2	13	70.208	0.058	0.000	0.18		4.9	FLOOD RISK																
S1.001	S3	12	70.213	1.211	0.000	0.19		7.5	SURCHARGED																
S3.000	S4	12	70.202	0.786	0.000	0.04		1.0	SURCHARGED																
S4.000	SST1	12	70.204	1.251	0.000	0.71		7.8	SURCHARGED																
S1.002	S5	12	70.208	1.286	0.000	0.11		4.3	SURCHARGED																
S1.003	S6	21	69.323	0.550	0.000	0.06		5.2	SURCHARGED																
S5.000	S9	18	69.321	-0.089	0.000	0.00		0.0	OK																
S5.001	SST2	18	69.321	0.093	0.000	0.19		4.2	SURCHARGED																
S1.004	S10	21	69.318	0.731	0.000	0.08		7.0	SURCHARGED																
S6.000	S11	31	68.715	-0.115	0.000	0.13		2.5	OK																
S1.005	S12	27	68.164	-0.232	0.000	0.12		9.0	OK																
S7.000	S13	31	68.427	-0.097	0.000	0.27		3.7	OK																
S1.006	S14	31	68.074	-0.227	0.000	0.14		16.5	OK																
S1.007	S15	19	67.948	-0.116	0.000	0.19		16.5	OK																
S8.000	S19	32	68.092	-0.128	0.000	0.05		1.4	OK																
S9.000	S19	16	67.943	0.293	0.000	0.19		3.5	SURCHARGED																
S10.000	S20	16	67.943	0.293	0.000	0.14		2.6	SURCHARGED																
S1.008	S18	19	67.943	0.495	0.000	0.30		9.8	SURCHARGED																

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Summary Wizard of 720 minute 100 year Summer 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	16	70.114	0.855	0.000	0.09		2.4	SURCHARGED
S2.000	S2	20	70.114	-0.036	0.000	0.15		4.3	OK
S1.001	S3	16	70.112	1.110	0.000	0.16		6.5	SURCHARGED
S3.000	S4	16	70.109	0.693	0.000	0.04		0.9	SURCHARGED
S4.000	SST1	16	70.111	1.158	0.000	0.54		5.9	SURCHARGED
S1.002	S5	16	70.109	1.187	0.000	0.11		4.2	SURCHARGED
S1.003	S6	24	69.293	0.520	0.000	0.06		5.0	SURCHARGED
S5.000	S9	19	69.291	-0.119	0.000	0.00		0.0	OK
S5.001	SST2	19	69.291	0.063	0.000	0.19		4.1	SURCHARGED
S1.004	S10	24	69.287	0.700	0.000	0.08		6.9	SURCHARGED
S6.000	S11	33	68.713	-0.117	0.000	0.11		2.1	OK
S1.005	S12	29	68.163	-0.233	0.000	0.11		8.6	OK
S7.000	S13	33	68.423	-0.101	0.000	0.23		3.2	OK
S1.006	S14	34	68.071	-0.230	0.000	0.12		15.2	OK
S1.007	S15	23	67.901	-0.164	0.000	0.17		15.2	OK
S8.000	S19	34	68.091	-0.129	0.000	0.05		1.3	OK
S9.000	S19	18	67.895	0.245	0.000	0.14		2.6	SURCHARGED
S10.000	S20	19	67.895	0.245	0.000	0.10		1.8	SURCHARGED
S1.008	S18	20	67.895	0.447	0.000	0.30		9.8	SURCHARGED

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Innovyze							Network 2020.1.3																																																																																																																																																																																																																																					
<u>Summary Wizard of 960 minute 100 year Summer I+40% 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)																																																																																																																																																																																																																																										
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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																																																																																																																																																																																																																																										
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th colspan="2">Flow / Overflow</th><th>Half Drain Time</th><th>Pipe Flow</th><th rowspan="2">Status</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap.</th><th>(l/s)</th><th>(mins)</th><th>(l/s)</th></tr><tr><td>S1.000</td><td>S1</td><td>17</td><td>69.921</td><td>0.662</td><td>0.000</td><td>0.07</td><td></td><td></td><td>1.9</td><td>SURCHARGED</td></tr><tr><td>S2.000</td><td>S2</td><td>42</td><td>70.035</td><td>-0.115</td><td>0.000</td><td>0.12</td><td></td><td></td><td>3.4</td><td>OK</td></tr><tr><td>S1.001</td><td>S3</td><td>17</td><td>69.920</td><td>0.918</td><td>0.000</td><td>0.13</td><td></td><td></td><td>5.2</td><td>SURCHARGED</td></tr><tr><td>S3.000</td><td>S4</td><td>17</td><td>69.916</td><td>0.500</td><td>0.000</td><td>0.03</td><td></td><td></td><td>0.7</td><td>SURCHARGED</td></tr><tr><td>S4.000</td><td>SST1</td><td>17</td><td>69.918</td><td>0.965</td><td>0.000</td><td>0.68</td><td></td><td></td><td>7.5</td><td>SURCHARGED</td></tr><tr><td>S1.002</td><td>S5</td><td>17</td><td>69.917</td><td>0.995</td><td>0.000</td><td>0.10</td><td></td><td></td><td>3.8</td><td>SURCHARGED</td></tr><tr><td>S1.003</td><td>S6</td><td>29</td><td>69.231</td><td>0.458</td><td>0.000</td><td>0.06</td><td></td><td></td><td>4.5</td><td>SURCHARGED</td></tr><tr><td>S5.000</td><td>S9</td><td>67</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>22</td><td>69.230</td><td>0.002</td><td>0.000</td><td>0.18</td><td></td><td></td><td>3.8</td><td>SURCHARGED</td></tr><tr><td>S1.004</td><td>S10</td><td>29</td><td>69.226</td><td>0.639</td><td>0.000</td><td>0.07</td><td></td><td></td><td>6.7</td><td>SURCHARGED</td></tr><tr><td>S6.000</td><td>S11</td><td>40</td><td>68.710</td><td>-0.120</td><td>0.000</td><td>0.09</td><td></td><td></td><td>1.7</td><td>OK</td></tr><tr><td>S1.005</td><td>S12</td><td>33</td><td>68.161</td><td>-0.235</td><td>0.000</td><td>0.11</td><td></td><td></td><td>8.1</td><td>OK</td></tr><tr><td>S7.000</td><td>S13</td><td>40</td><td>68.418</td><td>-0.106</td><td>0.000</td><td>0.19</td><td></td><td></td><td>2.6</td><td>OK</td></tr><tr><td>S1.006</td><td>S14</td><td>38</td><td>68.067</td><td>-0.234</td><td>0.000</td><td>0.11</td><td></td><td></td><td>13.3</td><td>OK</td></tr><tr><td>S1.007</td><td>S15</td><td>39</td><td>67.841</td><td>-0.223</td><td>0.000</td><td>0.15</td><td></td><td></td><td>13.3</td><td>OK</td></tr><tr><td>S8.000</td><td>S19</td><td>40</td><td>68.088</td><td>-0.132</td><td>0.000</td><td>0.04</td><td></td><td></td><td>1.0</td><td>OK</td></tr><tr><td>S9.000</td><td>S19</td><td>21</td><td>67.810</td><td>0.160</td><td>0.000</td><td>0.19</td><td></td><td></td><td>3.5</td><td>SURCHARGED</td></tr><tr><td>S10.000</td><td>S20</td><td>21</td><td>67.811</td><td>0.161</td><td>0.000</td><td>0.16</td><td></td><td></td><td>3.0</td><td>SURCHARGED</td></tr><tr><td>S1.008</td><td>S18</td><td>21</td><td>67.811</td><td>0.363</td><td>0.000</td><td>0.30</td><td></td><td></td><td>9.8</td><td>SURCHARGED</td></tr></table>										PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow		Half Drain Time	Pipe Flow	Status	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	S1.000	S1	17	69.921	0.662	0.000	0.07			1.9	SURCHARGED	S2.000	S2	42	70.035	-0.115	0.000	0.12			3.4	OK	S1.001	S3	17	69.920	0.918	0.000	0.13			5.2	SURCHARGED	S3.000	S4	17	69.916	0.500	0.000	0.03			0.7	SURCHARGED	S4.000	SST1	17	69.918	0.965	0.000	0.68			7.5	SURCHARGED	S1.002	S5	17	69.917	0.995	0.000	0.10			3.8	SURCHARGED	S1.003	S6	29	69.231	0.458	0.000	0.06			4.5	SURCHARGED	S5.000	S9	67	69.260	-0.150	0.000	0.00			0.0	OK	S5.001	SST2	22	69.230	0.002	0.000	0.18			3.8	SURCHARGED	S1.004	S10	29	69.226	0.639	0.000	0.07			6.7	SURCHARGED	S6.000	S11	40	68.710	-0.120	0.000	0.09			1.7	OK	S1.005	S12	33	68.161	-0.235	0.000	0.11			8.1	OK	S7.000	S13	40	68.418	-0.106	0.000	0.19			2.6	OK	S1.006	S14	38	68.067	-0.234	0.000	0.11			13.3	OK	S1.007	S15	39	67.841	-0.223	0.000	0.15			13.3	OK	S8.000	S19	40	68.088	-0.132	0.000	0.04			1.0	OK	S9.000	S19	21	67.810	0.160	0.000	0.19			3.5	SURCHARGED	S10.000	S20	21	67.811	0.161	0.000	0.16			3.0	SURCHARGED	S1.008	S18	21	67.811	0.363	0.000	0.30			9.8	SURCHARGED
PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow		Half Drain Time	Pipe Flow				Status																																																																																																																																																																																																																															
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S1.000	S1	17	69.921	0.662	0.000	0.07			1.9	SURCHARGED																																																																																																																																																																																																																																		
S2.000	S2	42	70.035	-0.115	0.000	0.12			3.4	OK																																																																																																																																																																																																																																		
S1.001	S3	17	69.920	0.918	0.000	0.13			5.2	SURCHARGED																																																																																																																																																																																																																																		
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S1.002	S5	17	69.917	0.995	0.000	0.10			3.8	SURCHARGED																																																																																																																																																																																																																																		
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S5.000	S9	67	69.260	-0.150	0.000	0.00			0.0	OK																																																																																																																																																																																																																																		
S5.001	SST2	22	69.230	0.002	0.000	0.18			3.8	SURCHARGED																																																																																																																																																																																																																																		
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S6.000	S11	40	68.710	-0.120	0.000	0.09			1.7	OK																																																																																																																																																																																																																																		
S1.005	S12	33	68.161	-0.235	0.000	0.11			8.1	OK																																																																																																																																																																																																																																		
S7.000	S13	40	68.418	-0.106	0.000	0.19			2.6	OK																																																																																																																																																																																																																																		
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S10.000	S20	21	67.811	0.161	0.000	0.16			3.0	SURCHARGED																																																																																																																																																																																																																																		
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Innovyze					Network 2020.1.3				
<u>Summary Wizard of 1440 minute 100 year Summer I+40% 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 1 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 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	42	69.146	-0.113	0.000	0.14		3.6	OK
S2.000	S2	34	70.048	-0.102	0.000	0.22		6.1	OK
S1.001	S3	50	69.002	0.000	0.000	0.24		9.7	OK
S3.000	S4	37	69.289	-0.127	0.000	0.06		1.3	OK
S4.000	SST1	56	68.887	-0.066	0.000	0.16		1.8	OK
S1.002	S5	50	68.989	0.067	0.000	0.06		2.4	SURCHARGED
S1.003	S6	45	68.952	0.179	0.000	0.05		4.0	SURCHARGED
S5.000	S9	69	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	44	69.114	-0.115	0.000	0.13		2.7	OK
S1.004	S10	45	68.950	0.363	0.000	0.06		5.6	SURCHARGED
S6.000	S11	26	68.720	-0.110	0.000	0.16		3.0	OK
S1.005	S12	43	68.158	-0.239	0.000	0.09		7.2	OK
S7.000	S13	26	68.434	-0.090	0.000	0.33		4.6	OK
S1.006	S14	33	68.073	-0.228	0.000	0.13		15.9	OK
S1.007	S15	35	67.850	-0.215	0.000	0.18		16.0	OK
S8.000	S19	28	68.095	-0.125	0.000	0.07		1.8	OK
S9.000	S19	44	67.540	-0.110	0.000	0.11		2.0	OK
S10.000	S20	44	67.563	-0.087	0.000	0.14		2.6	OK
S1.008	S18	42	67.662	0.214	0.000	0.29		9.5	SURCHARGED

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Summary Wizard of 60 minute 1 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 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

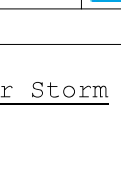
Rainfall Model	FSR	Ratio R	0.360
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	18.000	Cv (Winter)	0.840

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	44	69.140	-0.119	0.000	0.09		2.5	OK
S2.000	S2	38	70.039	-0.111	0.000	0.15		4.2	OK
S1.001	S3	52	68.978	-0.024	0.000	0.17		6.6	OK
S3.000	S4	41	69.285	-0.131	0.000	0.04		0.9	OK
S4.000	SST1	50	68.904	-0.049	0.000	0.17		1.9	OK
S1.002	S5	52	68.971	0.049	0.000	0.06		2.3	SURCHARGED
S1.003	S6	44	68.992	0.219	0.000	0.04		3.3	SURCHARGED
S5.000	S9	70	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	42	69.115	-0.113	0.000	0.14		3.0	OK
S1.004	S10	44	68.991	0.404	0.000	0.06		5.8	SURCHARGED
S6.000	S11	35	68.713	-0.117	0.000	0.11		2.1	OK
S1.005	S12	46	68.157	-0.239	0.000	0.09		7.0	OK
S7.000	S13	35	68.422	-0.102	0.000	0.23		3.2	OK
S1.006	S14	39	68.066	-0.235	0.000	0.10		12.7	OK
S1.007	S15	40	67.840	-0.225	0.000	0.14		12.7	OK
S8.000	S19	35	68.090	-0.130	0.000	0.04		1.2	OK
S9.000	S19	45	67.537	-0.113	0.000	0.08		1.5	OK
S10.000	S20	46	67.556	-0.094	0.000	0.08		1.5	OK
S1.008	S18	44	67.652	0.204	0.000	0.29		9.4	SURCHARGED

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Summary Wizard of 120 minute 1 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 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

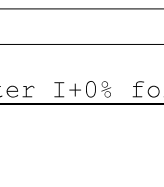
Rainfall Model	FSR	Ratio R	0.360
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.000	Cv (Winter)	0.840

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 (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.000	S1	50	69.133	-0.126	0.000	0.06		1.6	OK
S2.000	S2	47	70.031	-0.119	0.000	0.10		2.7	OK
S1.001	S3	55	68.964	-0.038	0.000	0.11		4.3	OK
S3.000	S4	49	69.282	-0.134	0.000	0.02		0.6	OK
S4.000	SST1	49	68.907	-0.046	0.000	0.17		1.9	OK
S1.002	S5	55	68.961	0.039	0.000	0.06		2.2	SURCHARGED
S1.003	S6	46	68.942	0.169	0.000	0.03		2.8	SURCHARGED
S5.000	S9	43	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	45	69.113	-0.115	0.000	0.13		2.7	OK
S1.004	S10	46	68.941	0.354	0.000	0.06		5.5	SURCHARGED
S6.000	S11	46	68.706	-0.124	0.000	0.07		1.3	OK
S1.005	S12	50	68.155	-0.241	0.000	0.09		6.6	OK
S7.000	S13	46	68.412	-0.112	0.000	0.15		2.0	OK
S1.006	S14	49	68.059	-0.242	0.000	0.08		10.2	OK
S1.007	S15	49	67.831	-0.233	0.000	0.11		10.2	OK
S8.000	S19	46	68.087	-0.133	0.000	0.03		0.8	OK
S9.000	S19	53	67.522	-0.128	0.000	0.04		0.7	OK
S10.000	S20	53	67.534	-0.116	0.000	0.05		1.0	OK
S1.008	S18	50	67.589	0.141	0.000	0.28		9.1	SURCHARGED

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Innovyze Network 2020.1.3		

Summary Wizard of 180 minute 1 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)

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	53	69.130	-0.129	0.000	0.05		1.2	OK
S2.000	S2	52	70.027	-0.123	0.000	0.07		2.1	OK
S1.001	S3	57	68.957	-0.045	0.000	0.08		3.2	OK
S3.000	S4	53	69.279	-0.137	0.000	0.02		0.4	OK
S4.000	SST1	51	68.902	-0.051	0.000	0.16		1.8	OK
S1.002	S5	57	68.954	0.032	0.000	0.05		2.1	SURCHARGED
S1.003	S6	52	68.889	0.116	0.000	0.03		2.5	SURCHARGED
S5.000	S9	71	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	52	69.111	-0.117	0.000	0.11		2.3	OK
S1.004	S10	52	68.887	0.300	0.000	0.06		5.3	SURCHARGED
S6.000	S11	52	68.702	-0.128	0.000	0.05		1.0	OK
S1.005	S12	55	68.152	-0.244	0.000	0.08		6.1	OK
S7.000	S13	52	68.407	-0.117	0.000	0.11		1.6	OK
S1.006	S14	55	68.054	-0.247	0.000	0.07		8.9	OK
S1.007	S15	55	67.828	-0.237	0.000	0.10		8.9	OK
S8.000	S19	52	68.085	-0.135	0.000	0.02		0.6	OK
S9.000	S19	55	67.509	-0.141	0.000	0.01		0.2	OK
S10.000	S20	55	67.515	-0.135	0.000	0.02		0.3	OK
S1.008	S18	56	67.556	0.108	0.000	0.27		8.9	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>58</td><td>69.128</td><td>-0.131</td><td>0.000</td><td>0.04</td><td></td><td></td><td>1.0</td><td>OK</td></tr><tr><td>S2.000</td><td>S2</td><td>58</td><td>70.024</td><td>-0.126</td><td>0.000</td><td>0.06</td><td></td><td></td><td>1.7</td><td>OK</td></tr><tr><td>S1.001</td><td>S3</td><td>60</td><td>68.936</td><td>-0.066</td><td>0.000</td><td>0.07</td><td></td><td></td><td>2.7</td><td>OK</td></tr><tr><td>S3.000</td><td>S4</td><td>58</td><td>69.277</td><td>-0.139</td><td>0.000</td><td>0.02</td><td></td><td></td><td>0.4</td><td>OK</td></tr><tr><td>S4.000</td><td>SST1</td><td>52</td><td>68.895</td><td>-0.058</td><td>0.000</td><td>0.16</td><td></td><td></td><td>1.8</td><td>OK</td></tr><tr><td>S1.002</td><td>S5</td><td>60</td><td>68.933</td><td>0.011</td><td>0.000</td><td>0.05</td><td></td><td></td><td>2.0</td><td>SURCHARGED</td></tr><tr><td>S1.003</td><td>S6</td><td>56</td><td>68.837</td><td>0.064</td><td>0.000</td><td>0.03</td><td></td><td></td><td>2.5</td><td>SURCHARGED</td></tr><tr><td>S5.000</td><td>S9</td><td>41</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>56</td><td>69.109</td><td>-0.119</td><td>0.000</td><td>0.10</td><td></td><td></td><td>2.0</td><td>OK</td></tr><tr><td>S1.004</td><td>S10</td><td>56</td><td>68.835</td><td>0.248</td><td>0.000</td><td>0.06</td><td></td><td></td><td>5.1</td><td>SURCHARGED</td></tr><tr><td>S6.000</td><td>S11</td><td>58</td><td>68.700</td><td>-0.130</td><td>0.000</td><td>0.04</td><td></td><td></td><td>0.8</td><td>OK</td></tr><tr><td>S1.005</td><td>S12</td><td>58</td><td>68.150</td><td>-0.246</td><td>0.000</td><td>0.07</td><td></td><td></td><td>5.8</td><td>OK</td></tr><tr><td>S7.000</td><td>S13</td><td>58</td><td>68.405</td><td>-0.119</td><td>0.000</td><td>0.09</td><td></td><td></td><td>1.3</td><td>OK</td></tr><tr><td>S1.006</td><td>S14</td><td>57</td><td>68.051</td><td>-0.250</td><td>0.000</td><td>0.07</td><td></td><td></td><td>8.1</td><td>OK</td></tr><tr><td>S1.007</td><td>S15</td><td>57</td><td>67.825</td><td>-0.239</td><td>0.000</td><td>0.09</td><td></td><td></td><td>8.1</td><td>OK</td></tr><tr><td>S8.000</td><td>S19</td><td>58</td><td>68.083</td><td>-0.137</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>57</td><td>67.501</td><td>-0.149</td><td>0.000</td><td>0.00</td><td></td><td></td><td>0.0</td><td>OK</td></tr><tr><td>S10.000</td><td>S20</td><td>57</td><td>67.502</td><td>-0.148</td><td>0.000</td><td>0.00</td><td></td><td></td><td>0.1</td><td>OK</td></tr><tr><td>S1.008</td><td>S18</td><td>57</td><td>67.528</td><td>0.080</td><td>0.000</td><td>0.27</td><td></td><td></td><td>8.6</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	58	69.128	-0.131	0.000	0.04			1.0	OK	S2.000	S2	58	70.024	-0.126	0.000	0.06			1.7	OK	S1.001	S3	60	68.936	-0.066	0.000	0.07			2.7	OK	S3.000	S4	58	69.277	-0.139	0.000	0.02			0.4	OK	S4.000	SST1	52	68.895	-0.058	0.000	0.16			1.8	OK	S1.002	S5	60	68.933	0.011	0.000	0.05			2.0	SURCHARGED	S1.003	S6	56	68.837	0.064	0.000	0.03			2.5	SURCHARGED	S5.000	S9	41	69.260	-0.150	0.000	0.00			0.0	OK	S5.001	SST2	56	69.109	-0.119	0.000	0.10			2.0	OK	S1.004	S10	56	68.835	0.248	0.000	0.06			5.1	SURCHARGED	S6.000	S11	58	68.700	-0.130	0.000	0.04			0.8	OK	S1.005	S12	58	68.150	-0.246	0.000	0.07			5.8	OK	S7.000	S13	58	68.405	-0.119	0.000	0.09			1.3	OK	S1.006	S14	57	68.051	-0.250	0.000	0.07			8.1	OK	S1.007	S15	57	67.825	-0.239	0.000	0.09			8.1	OK	S8.000	S19	58	68.083	-0.137	0.000	0.02			0.5	OK	S9.000	S19	57	67.501	-0.149	0.000	0.00			0.0	OK	S10.000	S20	57	67.502	-0.148	0.000	0.00			0.1	OK	S1.008	S18	57	67.528	0.080	0.000	0.27			8.6	SURCHARGED
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Camden Mill Lower Bristol Road Bath									
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Innovyze				Network 2020.1.3					
<u>Summary Wizard of 480 minute 1 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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Camden Mill Lower Bristol Road Bath																																																																																																																																																																																																																										
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S4.000	SST1	65	68.859	-0.094	0.000	0.10		1.1	OK																																																																																																																																																																																																																	
S1.002	S5	66	68.860	-0.062	0.000	0.04		1.7	OK																																																																																																																																																																																																																	
S1.003	S6	67	68.631	-0.142	0.000	0.03		2.1	OK																																																																																																																																																																																																																	
S5.000	S9	22	69.260	-0.150	0.000	0.00		0.0	OK																																																																																																																																																																																																																	
S5.001	SST2	67	69.101	-0.127	0.000	0.06		1.2	OK																																																																																																																																																																																																																	
S1.004	S10	67	68.628	0.041	0.000	0.04		3.9	SURCHARGED																																																																																																																																																																																																																	
S6.000	S11	67	68.696	-0.134	0.000	0.02		0.5	OK																																																																																																																																																																																																																	
S1.005	S12	67	68.142	-0.254	0.000	0.06		4.3	OK																																																																																																																																																																																																																	
S7.000	S13	67	68.395	-0.129	0.000	0.05		0.7	OK																																																																																																																																																																																																																	
S1.006	S14	67	68.042	-0.259	0.000	0.05		5.6	OK																																																																																																																																																																																																																	
S1.007	S15	67	67.813	-0.251	0.000	0.06		5.6	OK																																																																																																																																																																																																																	
S8.000	S19	67	68.077	-0.143	0.000	0.01		0.3	OK																																																																																																																																																																																																																	
S9.000	S19	67	67.500	-0.150	0.000	0.00		0.0	OK																																																																																																																																																																																																																	
S10.000	S20	69	67.500	-0.150	0.000	0.00		0.0	OK																																																																																																																																																																																																																	
S1.008	S18	67	67.419	-0.029	0.000	0.19		6.0	OK																																																																																																																																																																																																																	
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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		

Summary Wizard of 720 minute 1 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 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

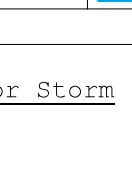
Rainfall Model FSR Ratio R 0.360
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 18.000 Cv (Winter) 0.840

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	69	69.122	-0.137	0.000	0.02		0.5	OK
S2.000	S2	69	70.017	-0.133	0.000	0.03		0.8	OK
S1.001	S3	68	68.850	-0.152	0.000	0.03		1.3	OK
S3.000	S4	69	69.271	-0.145	0.000	0.01		0.2	OK
S4.000	SST1	68	68.850	-0.103	0.000	0.09		0.9	OK
S1.002	S5	68	68.848	-0.074	0.000	0.04		1.7	OK
S1.003	S6	69	68.589	-0.184	0.000	0.02		2.0	OK
S5.000	S9	23	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	69	69.100	-0.128	0.000	0.05		1.1	OK
S1.004	S10	69	68.587	0.000	0.000	0.04		3.7	OK
S6.000	S11	69	68.695	-0.135	0.000	0.02		0.4	OK
S1.005	S12	69	68.140	-0.256	0.000	0.05		4.0	OK
S7.000	S13	69	68.394	-0.130	0.000	0.04		0.6	OK
S1.006	S14	69	68.041	-0.261	0.000	0.04		5.2	OK
S1.007	S15	69	67.811	-0.254	0.000	0.06		5.2	OK
S8.000	S19	69	68.076	-0.144	0.000	0.01		0.2	OK
S9.000	S19	68	67.500	-0.150	0.000	0.00		0.0	OK
S10.000	S20	70	67.500	-0.150	0.000	0.00		0.0	OK
S1.008	S18	69	67.411	-0.037	0.000	0.17		5.5	OK

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Camden Mill Lower Bristol Road Bath		
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Designed by lallen Checked by		
Innovyze		Network 2020.1.3

Summary Wizard of 960 minute 1 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

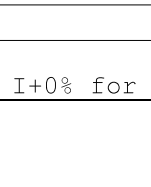
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

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 / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
S1.000	S1	71	69.120	-0.139	0.000	0.01			0.4	OK
S2.000	S2	71	70.016	-0.134	0.000	0.02			0.7	OK
S1.001	S3	70	68.834	-0.168	0.000	0.03			1.0	OK
S3.000	S4	71	69.270	-0.146	0.000	0.01			0.1	OK
S4.000	SST1	70	68.836	-0.117	0.000	0.07			0.7	OK
S1.002	S5	70	68.833	-0.089	0.000	0.04			1.5	OK
S1.003	S6	70	68.535	-0.238	0.000	0.02			1.8	OK
S5.000	S9	25	69.260	-0.150	0.000	0.00			0.0	OK
S5.001	SST2	71	69.098	-0.130	0.000	0.04			0.9	OK
S1.004	S10	70	68.531	-0.056	0.000	0.04			3.3	OK
S6.000	S11	71	68.692	-0.138	0.000	0.02			0.3	OK
S1.005	S12	70	68.137	-0.259	0.000	0.05			3.6	OK
S7.000	S13	71	68.392	-0.132	0.000	0.04			0.5	OK
S1.006	S14	71	68.038	-0.263	0.000	0.04			4.5	OK
S1.007	S15	71	67.808	-0.257	0.000	0.05			4.5	OK
S8.000	S19	71	68.075	-0.145	0.000	0.01			0.2	OK
S9.000	S19	69	67.500	-0.150	0.000	0.00			0.0	OK
S10.000	S20	72	67.500	-0.150	0.000	0.00			0.0	OK
S1.008	S18	71	67.400	-0.048	0.000	0.15			4.8	OK

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Camden Mill Lower Bristol Road Bath																																																																																																																																																																																																																							
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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																																																																																																																																																																																																																	
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																																																																																																																																																																																																																	
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<u>Synthetic Rainfall Details</u>																																																																																																																																																																																																																							
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M5-60 (mm)		18.000		Cv (Winter)		0.840																																																																																																																																																																																																																	
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Return Period(s) (years)						1, 30, 100																																																																																																																																																																																																																	
Climate Change (%)						0, 0, 40																																																																																																																																																																																																																	
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th><th>Half Drain Time</th><th>Pipe Flow</th><th rowspan="2">Status</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th><th>(mins)</th><th>(l/s)</th></tr><tr><td>S1.000</td><td>S1</td><td>72</td><td>69.117</td><td>-0.142</td><td>0.000</td><td>0.01</td><td></td><td>0.3</td><td>OK</td></tr><tr><td>S2.000</td><td>S2</td><td>72</td><td>70.013</td><td>-0.137</td><td>0.000</td><td>0.02</td><td></td><td>0.5</td><td>OK</td></tr><tr><td>S1.001</td><td>S3</td><td>72</td><td>68.811</td><td>-0.191</td><td>0.000</td><td>0.02</td><td></td><td>0.8</td><td>OK</td></tr><tr><td>S3.000</td><td>S4</td><td>72</td><td>69.269</td><td>-0.147</td><td>0.000</td><td>0.00</td><td></td><td>0.1</td><td>OK</td></tr><tr><td>S4.000</td><td>SST1</td><td>72</td><td>68.823</td><td>-0.130</td><td>0.000</td><td>0.04</td><td></td><td>0.5</td><td>OK</td></tr><tr><td>S1.002</td><td>S5</td><td>72</td><td>68.808</td><td>-0.114</td><td>0.000</td><td>0.04</td><td></td><td>1.4</td><td>OK</td></tr><tr><td>S1.003</td><td>S6</td><td>72</td><td>68.505</td><td>-0.268</td><td>0.000</td><td>0.02</td><td></td><td>1.6</td><td>OK</td></tr><tr><td>S5.000</td><td>S9</td><td>40</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>72</td><td>69.096</td><td>-0.132</td><td>0.000</td><td>0.03</td><td></td><td>0.7</td><td>OK</td></tr><tr><td>S1.004</td><td>S10</td><td>72</td><td>68.464</td><td>-0.123</td><td>0.000</td><td>0.03</td><td></td><td>2.7</td><td>OK</td></tr><tr><td>S6.000</td><td>S11</td><td>72</td><td>68.689</td><td>-0.141</td><td>0.000</td><td>0.01</td><td></td><td>0.2</td><td>OK</td></tr><tr><td>S1.005</td><td>S12</td><td>72</td><td>68.134</td><td>-0.262</td><td>0.000</td><td>0.04</td><td></td><td>2.9</td><td>OK</td></tr><tr><td>S7.000</td><td>S13</td><td>72</td><td>68.390</td><td>-0.134</td><td>0.000</td><td>0.03</td><td></td><td>0.4</td><td>OK</td></tr><tr><td>S1.006</td><td>S14</td><td>72</td><td>68.035</td><td>-0.266</td><td>0.000</td><td>0.03</td><td></td><td>3.7</td><td>OK</td></tr><tr><td>S1.007</td><td>S15</td><td>72</td><td>67.803</td><td>-0.261</td><td>0.000</td><td>0.04</td><td></td><td>3.7</td><td>OK</td></tr><tr><td>S8.000</td><td>S19</td><td>72</td><td>68.074</td><td>-0.146</td><td>0.000</td><td>0.01</td><td></td><td>0.1</td><td>OK</td></tr><tr><td>S9.000</td><td>S19</td><td>70</td><td>67.500</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>S10.000</td><td>S20</td><td>64</td><td>67.500</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>S1.008</td><td>S18</td><td>72</td><td>67.386</td><td>-0.062</td><td>0.000</td><td>0.12</td><td></td><td>3.9</td><td>OK</td></tr></table>										PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	Half Drain Time	Pipe Flow	Status	(m)	(m)	(m³)	Cap. (l/s)	(mins)	(l/s)	S1.000	S1	72	69.117	-0.142	0.000	0.01		0.3	OK	S2.000	S2	72	70.013	-0.137	0.000	0.02		0.5	OK	S1.001	S3	72	68.811	-0.191	0.000	0.02		0.8	OK	S3.000	S4	72	69.269	-0.147	0.000	0.00		0.1	OK	S4.000	SST1	72	68.823	-0.130	0.000	0.04		0.5	OK	S1.002	S5	72	68.808	-0.114	0.000	0.04		1.4	OK	S1.003	S6	72	68.505	-0.268	0.000	0.02		1.6	OK	S5.000	S9	40	69.260	-0.150	0.000	0.00		0.0	OK	S5.001	SST2	72	69.096	-0.132	0.000	0.03		0.7	OK	S1.004	S10	72	68.464	-0.123	0.000	0.03		2.7	OK	S6.000	S11	72	68.689	-0.141	0.000	0.01		0.2	OK	S1.005	S12	72	68.134	-0.262	0.000	0.04		2.9	OK	S7.000	S13	72	68.390	-0.134	0.000	0.03		0.4	OK	S1.006	S14	72	68.035	-0.266	0.000	0.03		3.7	OK	S1.007	S15	72	67.803	-0.261	0.000	0.04		3.7	OK	S8.000	S19	72	68.074	-0.146	0.000	0.01		0.1	OK	S9.000	S19	70	67.500	-0.150	0.000	0.00		0.0	OK	S10.000	S20	64	67.500	-0.150	0.000	0.00		0.0	OK	S1.008	S18	72	67.386	-0.062	0.000	0.12		3.9	OK
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S1.007	S15	72	67.803	-0.261	0.000	0.04		3.7	OK																																																																																																																																																																																																														
S8.000	S19	72	68.074	-0.146	0.000	0.01		0.1	OK																																																																																																																																																																																																														
S9.000	S19	70	67.500	-0.150	0.000	0.00		0.0	OK																																																																																																																																																																																																														
S10.000	S20	64	67.500	-0.150	0.000	0.00		0.0	OK																																																																																																																																																																																																														
S1.008	S18	72	67.386	-0.062	0.000	0.12		3.9	OK																																																																																																																																																																																																														
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Camden Mill Lower Bristol Road Bath		
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Designed by lallen Checked by		
Innovyze		Network 2020.1.3

Summary Wizard of 15 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 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	25	69.362	0.103	0.000	0.39		10.2	SURCHARGED
S2.000	S2	22	70.092	-0.058	0.000	0.68		18.7	OK
S1.001	S3	25	69.320	0.318	0.000	0.70		27.9	SURCHARGED
S3.000	S4	25	69.308	-0.108	0.000	0.17		4.0	OK
S4.000	SST1	45	69.004	0.051	0.000	0.19		2.1	SURCHARGED
S1.002	S5	25	69.223	0.301	0.000	0.07		2.5	SURCHARGED
S1.003	S6	19	69.341	0.568	0.000	0.10		7.9	SURCHARGED
S5.000	S9	28	69.260	-0.150	0.000	0.00		0.0	OK
S5.001	SST2	30	69.185	-0.043	0.000	0.37		7.8	OK
S1.004	S10	19	69.330	0.743	0.000	0.08		7.0	SURCHARGED
S6.000	S11	6	68.755	-0.075	0.000	0.49		9.4	OK
S1.005	S12	10	68.190	-0.206	0.000	0.21		16.4	OK
S7.000	S13	6	68.513	-0.011	0.000	1.00		13.9	OK
S1.006	S14	12	68.129	-0.173	0.000	0.37		44.5	OK
S1.007	S15	20	67.917	-0.148	0.000	0.50		44.6	OK
S8.000	S19	11	68.116	-0.104	0.000	0.20		5.5	OK
S9.000	S19	34	67.680	0.030	0.000	0.16		2.9	SURCHARGED
S10.000	S20	30	67.705	0.055	0.000	0.16		2.9	SURCHARGED
S1.008	S18	23	67.764	0.316	0.000	0.30		9.7	SURCHARGED

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Camden Mill

Lower Bristol Road

Bath

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File 0041946_SURFACE WATER D...

Designed by lallen

Checked by

Innovyze

Network 2020.1.3

Micro Drainage

Summary Wizard of 60 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 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

			Water	Surcharged	Flooded			Half Drain	Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	Status
S1.000	S1	34	69.158	-0.101	0.000	0.23			6.0	OK
S2.000	S2	27	70.063	-0.087	0.000	0.37			10.1	OK
S1.001	S3	38	69.142	0.140	0.000	0.40			15.9	SURCHARGED
S3.000	S4	30	69.296	-0.120	0.000	0.09			2.1	OK
S4.000	SST1	33	69.130	0.177	0.000	0.24			2.6	SURCHARGED
S1.002	S5	39	69.140	0.218	0.000	0.07			2.7	SURCHARGED
S1.003	S6	27	69.249	0.476	0.000	0.04			3.3	SURCHARGED
S5.000	S9	27	69.260	-0.150	0.000	0.00			0.0	OK
S5.001	SST2	23	69.221	-0.007	0.000	0.32			6.9	OK
S1.004	S10	27	69.246	0.659	0.000	0.08			6.8	SURCHARGED
S6.000	S11	15	68.732	-0.098	0.000	0.26			5.1	OK
S1.005	S12	19	68.174	-0.222	0.000	0.15			11.8	OK
S7.000	S13	15	68.454	-0.070	0.000	0.56			7.7	OK
S1.006	S14	21	68.097	-0.204	0.000	0.22			27.4	OK
S1.007	S15	26	67.878	-0.186	0.000	0.31			27.4	OK
S8.000	S19	20	68.103	-0.117	0.000	0.11			3.0	OK
S9.000	S19	23	67.753	0.103	0.000	0.16			3.0	SURCHARGED
S10.000	S20	23	67.754	0.104	0.000	0.10			1.8	SURCHARGED
S1.008	S18	24	67.755	0.307	0.000	0.30			9.7	SURCHARGED

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