

Westlakes Engineering Ltd		Page 2																																																																																																								
20 Dale Street Manchester M1 1EZ																																																																																																										
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Designed by Eleni.Zachara Checked by																																																																																																										
Innovyze Network 2019.1																																																																																																										
<u>Summary Wizard of 30 minute 1 year Summer 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 0 Number of Online Controls 0 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 0.258 Region England and Wales Cv (Summer) 0.750 M5-60 (mm) 16.000 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF Analysis Timestep Fine Inertia Status OFF DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 360 Return Period(s) (years) 1, 30, 100 Climate Change (%) 0, 0, 40 <table border="1"> <thead> <tr> <th rowspan="2">PN</th> <th rowspan="2">US/MH Name</th> <th rowspan="2">Storm Rank</th> <th colspan="3">Water Surcharged Flooded</th> <th rowspan="2">Flow / Cap.</th> <th rowspan="2">Overflow (l/s)</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> </tr> </thead> <tbody> <tr><td>1.000</td><td>SWMH1</td><td>20</td><td>5.660</td><td>-0.165</td><td>0.000</td><td>0.16</td><td>6.0</td><td>OK</td></tr> <tr><td>1.001</td><td>SWMH2</td><td>21</td><td>5.597</td><td>-0.136</td><td>0.000</td><td>0.33</td><td>10.0</td><td>OK</td></tr> <tr><td>1.002</td><td>SWMH3</td><td>21</td><td>5.555</td><td>-0.132</td><td>0.000</td><td>0.36</td><td>13.9</td><td>OK</td></tr> <tr><td>1.003</td><td>SMWH4</td><td>21</td><td>5.469</td><td>-0.122</td><td>0.000</td><td>0.43</td><td>14.8</td><td>OK</td></tr> <tr><td>1.004</td><td>SMWH5</td><td>21</td><td>5.375</td><td>-0.156</td><td>0.000</td><td>0.20</td><td>15.2</td><td>OK</td></tr> <tr><td>2.000</td><td>SWIC1</td><td>20</td><td>5.907</td><td>-0.133</td><td>0.000</td><td>0.03</td><td>0.4</td><td>OK</td></tr> <tr><td>2.001</td><td>SWIC2</td><td>21</td><td>5.803</td><td>-0.128</td><td>0.000</td><td>0.05</td><td>0.7</td><td>OK</td></tr> <tr><td>2.002</td><td>SWIC3</td><td>21</td><td>5.758</td><td>-0.125</td><td>0.000</td><td>0.07</td><td>0.8</td><td>OK</td></tr> <tr><td>2.003</td><td>SWIC4</td><td>21</td><td>5.715</td><td>-0.116</td><td>0.000</td><td>0.11</td><td>1.6</td><td>OK</td></tr> <tr><td>1.005</td><td>SWMH6</td><td>21</td><td>5.034</td><td>-0.089</td><td>0.000</td><td>0.35</td><td>17.0</td><td>OK</td></tr> </tbody> </table>			PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Pipe	Status	Level (m)	Depth (m)	Volume (m³)	Flow (l/s)	1.000	SWMH1	20	5.660	-0.165	0.000	0.16	6.0	OK	1.001	SWMH2	21	5.597	-0.136	0.000	0.33	10.0	OK	1.002	SWMH3	21	5.555	-0.132	0.000	0.36	13.9	OK	1.003	SMWH4	21	5.469	-0.122	0.000	0.43	14.8	OK	1.004	SMWH5	21	5.375	-0.156	0.000	0.20	15.2	OK	2.000	SWIC1	20	5.907	-0.133	0.000	0.03	0.4	OK	2.001	SWIC2	21	5.803	-0.128	0.000	0.05	0.7	OK	2.002	SWIC3	21	5.758	-0.125	0.000	0.07	0.8	OK	2.003	SWIC4	21	5.715	-0.116	0.000	0.11	1.6	OK	1.005	SWMH6	21	5.034	-0.089	0.000	0.35	17.0	OK
PN	US/MH Name	Storm Rank				Water Surcharged Flooded					Flow / Cap.		Overflow (l/s)	Pipe	Status																																																																																											
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Summary Wizard of 60 minute 1 year Summer 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine Inertia	Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	SWMH1	23	5.653	-0.172	0.000	0.12	4.6	OK
1.001	SWMH2	23	5.587	-0.146	0.000	0.27	8.0	OK
1.002	SWMH3	23	5.545	-0.142	0.000	0.29	11.4	OK
1.003	SMWH4	23	5.458	-0.133	0.000	0.35	12.1	OK
1.004	SMWH5	23	5.367	-0.164	0.000	0.17	12.5	OK
2.000	SWIC1	23	5.906	-0.134	0.000	0.02	0.3	OK
2.001	SWIC2	23	5.801	-0.130	0.000	0.04	0.5	OK
2.002	SWIC3	23	5.755	-0.128	0.000	0.05	0.7	OK
2.003	SWIC4	23	5.712	-0.119	0.000	0.09	1.3	OK
1.005	SWMH6	23	5.028	-0.095	0.000	0.29	14.0	OK

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Summary Wizard of 120 minute 1 year Summer 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	26	5.646	-0.179	0.000	0.09	3.3	OK
1.001	SWMH2	26	5.576	-0.157	0.000	0.20	5.9	OK
1.002	SWMH3	26	5.533	-0.154	0.000	0.22	8.4	OK
1.003	SMWH4	26	5.444	-0.147	0.000	0.25	8.8	OK
1.004	SMWH5	26	5.358	-0.173	0.000	0.12	8.9	OK
2.000	SWIC1	26	5.903	-0.137	0.000	0.02	0.2	OK
2.001	SWIC2	26	5.798	-0.133	0.000	0.03	0.4	OK
2.002	SWIC3	26	5.752	-0.131	0.000	0.04	0.5	OK
2.003	SWIC4	26	5.708	-0.124	0.000	0.07	1.0	OK
1.005	SWMH6	26	5.020	-0.103	0.000	0.21	10.1	OK

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Summary Wizard of 360 minute 1 year Summer 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	29	5.633	-0.192	0.000	0.05	1.9	OK
1.001	SWMH2	29	5.558	-0.175	0.000	0.11	3.4	OK
1.002	SWMH3	29	5.515	-0.172	0.000	0.12	4.8	OK
1.003	SMWH4	29	5.424	-0.167	0.000	0.15	5.1	OK
1.004	SMWH5	29	5.345	-0.186	0.000	0.07	5.3	OK
2.000	SWIC1	29	5.897	-0.143	0.000	0.01	0.1	OK
2.001	SWIC2	29	5.794	-0.137	0.000	0.02	0.2	OK
2.002	SWIC3	29	5.748	-0.135	0.000	0.02	0.3	OK
2.003	SWIC4	29	5.701	-0.131	0.000	0.04	0.6	OK
1.005	SWMH6	29	5.008	-0.115	0.000	0.12	5.9	OK

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Summary Wizard of 15 minute 30 year Summer 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine Inertia	Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH1	9	5.740	-0.085	0.000	0.40		14.6	OK
1.001	SWMH2	9	5.715	-0.018	0.000	0.86		25.9	OK
1.002	SWMH3	9	5.687	0.000	0.000	0.95		36.8	SURCHARGED
1.003	SMWH4	9	5.598	0.007	0.000	1.13		39.1	SURCHARGED
1.004	SMWH5	9	5.423	-0.108	0.000	0.54		40.0	OK
2.000	SWIC1	8	5.918	-0.122	0.000	0.08		1.1	OK
2.001	SWIC2	8	5.820	-0.111	0.000	0.15		1.8	OK
2.002	SWIC3	8	5.777	-0.106	0.000	0.18		2.3	OK
2.003	SWIC4	8	5.742	-0.089	0.000	0.34		4.7	OK
1.005	SWMH6	9	5.088	-0.035	0.000	0.94		45.6	OK

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Summary Wizard of 30 minute 30 year Summer 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH1	10	5.727	-0.098	0.000	0.38		14.1	OK
1.001	SWMH2	10	5.703	-0.030	0.000	0.82		24.9	OK
1.002	SWMH3	10	5.676	-0.011	0.000	0.90		35.1	OK
1.003	SMWH4	10	5.593	0.002	0.000	1.08		37.3	SURCHARGED
1.004	SMWH5	10	5.421	-0.110	0.000	0.52		38.5	OK
2.000	SWIC1	10	5.917	-0.123	0.000	0.08		1.1	OK
2.001	SWIC2	9	5.819	-0.112	0.000	0.14		1.7	OK
2.002	SWIC3	9	5.775	-0.108	0.000	0.18		2.2	OK
2.003	SWIC4	9	5.740	-0.092	0.000	0.32		4.4	OK
1.005	SWMH6	10	5.085	-0.038	0.000	0.91		43.9	OK

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Summary Wizard of 60 minute 30 year Summer 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	16.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	12	5.689	-0.136	0.000	0.30	11.3	OK
1.001	SWMH2	12	5.647	-0.086	0.000	0.66	20.0	OK
1.002	SWMH3	12	5.613	-0.074	0.000	0.74	28.7	OK
1.003	SMWH4	12	5.537	-0.054	0.000	0.90	31.0	OK
1.004	SMWH5	12	5.410	-0.121	0.000	0.43	32.1	OK
2.000	SWIC1	13	5.914	-0.126	0.000	0.06	0.8	OK
2.001	SWIC2	12	5.814	-0.117	0.000	0.11	1.3	OK
2.002	SWIC3	12	5.770	-0.113	0.000	0.13	1.7	OK
2.003	SWIC4	12	5.733	-0.099	0.000	0.24	3.4	OK
1.005	SWMH6	12	5.072	-0.051	0.000	0.75	36.4	OK

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<u>Summary Wizard of 120 minute 30 year Summer 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 0 Number of Online Controls 0 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 0.258 Region England and Wales Cv (Summer) 0.750 M5-60 (mm) 16.000 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF Analysis Timestep Fine Inertia Status OFF DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 360 Return Period(s) (years) 1, 30, 100 Climate Change (%) 0, 0, 40 <table border="1"> <thead> <tr> <th rowspan="2">PN</th> <th rowspan="2">US/MH Name</th> <th rowspan="2">Storm Rank</th> <th colspan="3">Water Surcharged Flooded</th> <th rowspan="2">Flow / Cap.</th> <th rowspan="2">Overflow (l/s)</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> </tr> </thead> <tbody> <tr><td>1.000</td><td>SWMH1</td><td>15</td><td>5.671</td><td>-0.154</td><td>0.000</td><td>0.22</td><td>8.0</td><td>OK</td></tr> <tr><td>1.001</td><td>SWMH2</td><td>15</td><td>5.617</td><td>-0.116</td><td>0.000</td><td>0.47</td><td>14.2</td><td>OK</td></tr> <tr><td>1.002</td><td>SWMH3</td><td>15</td><td>5.578</td><td>-0.109</td><td>0.000</td><td>0.52</td><td>20.3</td><td>OK</td></tr> <tr><td>1.003</td><td>SMWH4</td><td>15</td><td>5.496</td><td>-0.095</td><td>0.000</td><td>0.62</td><td>21.5</td><td>OK</td></tr> <tr><td>1.004</td><td>SMWH5</td><td>15</td><td>5.389</td><td>-0.142</td><td>0.000</td><td>0.29</td><td>22.0</td><td>OK</td></tr> <tr><td>2.000</td><td>SWIC1</td><td>15</td><td>5.910</td><td>-0.130</td><td>0.000</td><td>0.04</td><td>0.6</td><td>OK</td></tr> <tr><td>2.001</td><td>SWIC2</td><td>15</td><td>5.808</td><td>-0.123</td><td>0.000</td><td>0.08</td><td>0.9</td><td>OK</td></tr> <tr><td>2.002</td><td>SWIC3</td><td>15</td><td>5.764</td><td>-0.119</td><td>0.000</td><td>0.09</td><td>1.2</td><td>OK</td></tr> <tr><td>2.003</td><td>SWIC4</td><td>15</td><td>5.723</td><td>-0.109</td><td>0.000</td><td>0.17</td><td>2.3</td><td>OK</td></tr> <tr><td>1.005</td><td>SWMH6</td><td>15</td><td>5.049</td><td>-0.074</td><td>0.000</td><td>0.51</td><td>24.9</td><td>OK</td></tr> </tbody> </table>			PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Pipe	Status	Level (m)	Depth (m)	Volume (m³)	Flow (l/s)	1.000	SWMH1	15	5.671	-0.154	0.000	0.22	8.0	OK	1.001	SWMH2	15	5.617	-0.116	0.000	0.47	14.2	OK	1.002	SWMH3	15	5.578	-0.109	0.000	0.52	20.3	OK	1.003	SMWH4	15	5.496	-0.095	0.000	0.62	21.5	OK	1.004	SMWH5	15	5.389	-0.142	0.000	0.29	22.0	OK	2.000	SWIC1	15	5.910	-0.130	0.000	0.04	0.6	OK	2.001	SWIC2	15	5.808	-0.123	0.000	0.08	0.9	OK	2.002	SWIC3	15	5.764	-0.119	0.000	0.09	1.2	OK	2.003	SWIC4	15	5.723	-0.109	0.000	0.17	2.3	OK	1.005	SWMH6	15	5.049	-0.074	0.000	0.51	24.9	OK
PN	US/MH Name	Storm Rank				Water Surcharged Flooded					Flow / Cap.		Overflow (l/s)	Pipe	Status																																																																																											
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Summary Wizard of 15 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s) Status
1.000	SWMH1	3	6.234	0.409	0.000	0.63	23.4	SURCHARGED
1.001	SWMH2	3	6.196	0.463	0.000	1.29	39.0	SURCHARGED
1.002	SWMH3	3	6.124	0.437	0.000	1.46	56.8	SURCHARGED
1.003	SMWH4	3	5.941	0.350	0.000	1.69	58.3	SURCHARGED
1.004	SMWH5	3	5.786	0.255	0.000	0.75	55.6	SURCHARGED
2.000	SWIC1	2	5.928	-0.112	0.000	0.14	2.0	OK
2.001	SWIC2	2	5.834	-0.097	0.000	0.26	3.3	OK
2.002	SWIC3	2	5.793	-0.090	0.000	0.33	4.1	OK
2.003	SWIC4	2	5.767	-0.065	0.000	0.59	8.3	OK
1.005	SWMH6	3	5.611	0.488	0.000	1.30	62.7	SURCHARGED

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Summary Wizard of 30 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s) Status
1.000	SWMH1	2	6.239	0.414	0.000	0.59	22.0	SURCHARGED
1.001	SWMH2	2	6.201	0.468	0.000	1.27	38.3	SURCHARGED
1.002	SWMH3	2	6.130	0.443	0.000	1.41	54.8	SURCHARGED
1.003	SMWH4	2	5.952	0.361	0.000	1.63	56.2	SURCHARGED
1.004	SMWH5	2	5.798	0.267	0.000	0.75	55.8	SURCHARGED
2.000	SWIC1	3	5.927	-0.113	0.000	0.14	1.9	OK
2.001	SWIC2	3	5.833	-0.098	0.000	0.26	3.2	OK
2.002	SWIC3	3	5.792	-0.091	0.000	0.32	4.0	OK
2.003	SWIC4	3	5.764	-0.067	0.000	0.58	8.0	OK
1.005	SWMH6	2	5.616	0.493	0.000	1.30	63.1	SURCHARGED

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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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s) Status
1.000	SWMH1	5	5.967	0.142	0.000	0.53	19.5	SURCHARGED
1.001	SWMH2	5	5.933	0.200	0.000	1.14	34.4	SURCHARGED
1.002	SWMH3	5	5.876	0.189	0.000	1.26	49.0	SURCHARGED
1.003	SMWH4	5	5.729	0.138	0.000	1.50	51.7	SURCHARGED
1.004	SMWH5	5	5.600	0.069	0.000	0.69	51.4	SURCHARGED
2.000	SWIC1	5	5.923	-0.117	0.000	0.11	1.5	OK
2.001	SWIC2	5	5.827	-0.104	0.000	0.20	2.5	OK
2.002	SWIC3	5	5.784	-0.099	0.000	0.24	3.1	OK
2.003	SWIC4	5	5.754	-0.078	0.000	0.44	6.2	OK
1.005	SWMH6	5	5.441	0.318	0.000	1.20	58.1	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 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH1	8	5.743	-0.082	0.000	0.40		14.7	OK
1.001	SWMH2	8	5.717	-0.016	0.000	0.86		26.0	OK
1.002	SWMH3	8	5.688	0.001	0.000	0.94		36.6	SURCHARGED
1.003	SMWH4	8	5.599	0.008	0.000	1.12		38.5	SURCHARGED
1.004	SMWH5	8	5.424	-0.107	0.000	0.53		39.3	OK
2.000	SWIC1	9	5.918	-0.122	0.000	0.08		1.1	OK
2.001	SWIC2	10	5.818	-0.113	0.000	0.14		1.7	OK
2.002	SWIC3	10	5.775	-0.108	0.000	0.17		2.2	OK
2.003	SWIC4	10	5.739	-0.093	0.000	0.31		4.3	OK
1.005	SWMH6	8	5.088	-0.035	0.000	0.91		44.3	OK

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Summary Wizard of 360 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine Inertia	Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	16	5.669	-0.156	0.000	0.21	7.7	OK
1.001	SWMH2	16	5.614	-0.119	0.000	0.45	13.6	OK
1.002	SWMH3	16	5.575	-0.112	0.000	0.50	19.5	OK
1.003	SMWH4	16	5.492	-0.099	0.000	0.60	20.7	OK
1.004	SMWH5	16	5.388	-0.143	0.000	0.29	21.3	OK
2.000	SWIC1	16	5.909	-0.131	0.000	0.04	0.6	OK
2.001	SWIC2	16	5.808	-0.123	0.000	0.07	0.9	OK
2.002	SWIC3	16	5.763	-0.120	0.000	0.09	1.1	OK
2.003	SWIC4	16	5.722	-0.110	0.000	0.16	2.3	OK
1.005	SWMH6	16	5.048	-0.075	0.000	0.50	24.1	OK

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<u>Summary Wizard of 15 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 0 Number of Online Controls 0 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 0.258 Region England and Wales Cv (Summer) 0.750 M5-60 (mm) 16.000 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF Analysis Timestep Fine Inertia Status OFF DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 360 Return Period(s) (years) 1, 30, 100 Climate Change (%) 0, 0, 40 <table border="1"> <thead> <tr> <th rowspan="2">PN</th> <th rowspan="2">US/MH Name</th> <th rowspan="2">Storm Rank</th> <th colspan="3">Water Surcharged Flooded</th> <th rowspan="2">Flow / Cap.</th> <th rowspan="2">Overflow (l/s)</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> </tr> </thead> <tbody> <tr><td>1.000</td><td>SWMH1</td><td>17</td><td>5.664</td><td>-0.161</td><td>0.000</td><td>0.18</td><td>6.5</td><td>OK</td></tr> <tr><td>1.001</td><td>SWMH2</td><td>18</td><td>5.602</td><td>-0.131</td><td>0.000</td><td>0.36</td><td>10.9</td><td>OK</td></tr> <tr><td>1.002</td><td>SWMH3</td><td>18</td><td>5.560</td><td>-0.127</td><td>0.000</td><td>0.39</td><td>15.1</td><td>OK</td></tr> <tr><td>1.003</td><td>SMWH4</td><td>18</td><td>5.473</td><td>-0.118</td><td>0.000</td><td>0.46</td><td>16.0</td><td>OK</td></tr> <tr><td>1.004</td><td>SMWH5</td><td>18</td><td>5.377</td><td>-0.154</td><td>0.000</td><td>0.22</td><td>16.3</td><td>OK</td></tr> <tr><td>2.000</td><td>SWIC1</td><td>17</td><td>5.908</td><td>-0.132</td><td>0.000</td><td>0.03</td><td>0.5</td><td>OK</td></tr> <tr><td>2.001</td><td>SWIC2</td><td>18</td><td>5.805</td><td>-0.126</td><td>0.000</td><td>0.06</td><td>0.7</td><td>OK</td></tr> <tr><td>2.002</td><td>SWIC3</td><td>18</td><td>5.759</td><td>-0.124</td><td>0.000</td><td>0.07</td><td>0.9</td><td>OK</td></tr> <tr><td>2.003</td><td>SWIC4</td><td>18</td><td>5.716</td><td>-0.115</td><td>0.000</td><td>0.12</td><td>1.7</td><td>OK</td></tr> <tr><td>1.005</td><td>SWMH6</td><td>18</td><td>5.037</td><td>-0.086</td><td>0.000</td><td>0.38</td><td>18.4</td><td>OK</td></tr> </tbody> </table>			PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Pipe	Status	Level (m)	Depth (m)	Volume (m³)	Flow (l/s)	1.000	SWMH1	17	5.664	-0.161	0.000	0.18	6.5	OK	1.001	SWMH2	18	5.602	-0.131	0.000	0.36	10.9	OK	1.002	SWMH3	18	5.560	-0.127	0.000	0.39	15.1	OK	1.003	SMWH4	18	5.473	-0.118	0.000	0.46	16.0	OK	1.004	SMWH5	18	5.377	-0.154	0.000	0.22	16.3	OK	2.000	SWIC1	17	5.908	-0.132	0.000	0.03	0.5	OK	2.001	SWIC2	18	5.805	-0.126	0.000	0.06	0.7	OK	2.002	SWIC3	18	5.759	-0.124	0.000	0.07	0.9	OK	2.003	SWIC4	18	5.716	-0.115	0.000	0.12	1.7	OK	1.005	SWMH6	18	5.037	-0.086	0.000	0.38	18.4	OK
PN	US/MH Name	Storm Rank				Water Surcharged Flooded					Flow / Cap.		Overflow (l/s)	Pipe	Status																																																																																											
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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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	16.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water Surcharged Flooded			Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s) Status
1.000	SWMH1	22	5.657	-0.168	0.000	0.15	5.4	OK
1.001	SWMH2	22	5.593	-0.140	0.000	0.31	9.2	OK
1.002	SWMH3	22	5.552	-0.135	0.000	0.34	13.1	OK
1.003	SMWH4	22	5.465	-0.126	0.000	0.40	13.9	OK
1.004	SMWH5	22	5.372	-0.159	0.000	0.19	14.2	OK
2.000	SWIC1	22	5.907	-0.133	0.000	0.03	0.4	OK
2.001	SWIC2	22	5.802	-0.129	0.000	0.05	0.6	OK
2.002	SWIC3	22	5.757	-0.126	0.000	0.06	0.8	OK
2.003	SWIC4	22	5.714	-0.117	0.000	0.11	1.5	OK
1.005	SWMH6	22	5.032	-0.091	0.000	0.33	16.1	OK

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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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine Inertia	Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	25	5.648	-0.177	0.000	0.10	3.8	OK
1.001	SWMH2	25	5.580	-0.153	0.000	0.22	6.8	OK
1.002	SWMH3	25	5.538	-0.149	0.000	0.25	9.7	OK
1.003	SMWH4	25	5.449	-0.142	0.000	0.30	10.3	OK
1.004	SMWH5	25	5.362	-0.169	0.000	0.14	10.5	OK
2.000	SWIC1	25	5.904	-0.136	0.000	0.02	0.3	OK
2.001	SWIC2	25	5.799	-0.132	0.000	0.04	0.4	OK
2.002	SWIC3	25	5.753	-0.130	0.000	0.04	0.6	OK
2.003	SWIC4	25	5.710	-0.122	0.000	0.08	1.1	OK
1.005	SWMH6	25	5.023	-0.100	0.000	0.25	11.9	OK

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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 * 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	16.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	SWMH1	28	5.639	-0.186	0.000	0.07	2.6	OK
1.001	SWMH2	28	5.567	-0.166	0.000	0.15	4.7	OK
1.002	SWMH3	28	5.525	-0.162	0.000	0.17	6.7	OK
1.003	SMWH4	28	5.435	-0.156	0.000	0.20	7.1	OK
1.004	SMWH5	28	5.353	-0.178	0.000	0.10	7.3	OK
2.000	SWIC1	28	5.900	-0.140	0.000	0.01	0.2	OK
2.001	SWIC2	28	5.797	-0.134	0.000	0.03	0.3	OK
2.002	SWIC3	28	5.750	-0.133	0.000	0.03	0.4	OK
2.003	SWIC4	28	5.704	-0.127	0.000	0.06	0.8	OK
1.005	SWMH6	28	5.014	-0.109	0.000	0.17	8.3	OK

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Summary Wizard of 360 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine Inertia	Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	30	5.628	-0.197	0.000	0.04	1.4	OK
1.001	SWMH2	30	5.551	-0.182	0.000	0.08	2.5	OK
1.002	SWMH3	30	5.508	-0.179	0.000	0.09	3.6	OK
1.003	SMWH4	30	5.416	-0.175	0.000	0.11	3.8	OK
1.004	SMWH5	30	5.339	-0.192	0.000	0.05	3.9	OK
2.000	SWIC1	30	5.895	-0.145	0.000	0.01	0.1	OK
2.001	SWIC2	30	5.791	-0.140	0.000	0.01	0.2	OK
2.002	SWIC3	30	5.745	-0.138	0.000	0.02	0.2	OK
2.003	SWIC4	30	5.698	-0.133	0.000	0.03	0.4	OK
1.005	SWMH6	30	5.003	-0.120	0.000	0.09	4.5	OK

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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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

				Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.000	SWMH1	7	5.749	-0.076	0.000	0.41		15.1	OK
1.001	SWMH2	7	5.723	-0.010	0.000	0.88		26.5	OK
1.002	SWMH3	7	5.694	0.007	0.000	0.97		37.7	SURCHARGED
1.003	SMWH4	7	5.600	0.009	0.000	1.16		39.9	SURCHARGED
1.004	SMWH5	7	5.425	-0.106	0.000	0.55		40.8	OK
2.000	SWIC1	7	5.919	-0.121	0.000	0.08		1.1	OK
2.001	SWIC2	7	5.820	-0.111	0.000	0.15		1.9	OK
2.002	SWIC3	7	5.777	-0.106	0.000	0.19		2.3	OK
2.003	SWIC4	7	5.742	-0.089	0.000	0.34		4.8	OK
1.005	SWMH6	7	5.090	-0.033	0.000	0.96		46.4	OK

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Summary Wizard of 30 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	16.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	11	5.698	-0.127	0.000	0.36	13.2	OK
1.001	SWMH2	11	5.660	-0.073	0.000	0.78	23.5	OK
1.002	SWMH3	11	5.638	-0.049	0.000	0.85	33.1	OK
1.003	SMWH4	11	5.569	-0.022	0.000	1.00	34.5	OK
1.004	SMWH5	11	5.415	-0.116	0.000	0.48	35.5	OK
2.000	SWIC1	11	5.916	-0.124	0.000	0.07	1.0	OK
2.001	SWIC2	11	5.816	-0.115	0.000	0.13	1.6	OK
2.002	SWIC3	11	5.773	-0.110	0.000	0.16	2.0	OK
2.003	SWIC4	11	5.736	-0.096	0.000	0.28	3.9	OK
1.005	SWMH6	11	5.078	-0.045	0.000	0.83	40.3	OK

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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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
1.000	SWMH1	14	5.677	-0.148	0.000	0.25	9.4	OK
1.001	SWMH2	14	5.629	-0.104	0.000	0.55	16.6	OK
1.002	SWMH3	14	5.591	-0.096	0.000	0.61	23.8	OK
1.003	SMWH4	14	5.511	-0.080	0.000	0.74	25.5	OK
1.004	SMWH5	14	5.398	-0.133	0.000	0.35	26.3	OK
2.000	SWIC1	14	5.911	-0.129	0.000	0.05	0.7	OK
2.001	SWIC2	14	5.811	-0.120	0.000	0.09	1.1	OK
2.002	SWIC3	14	5.766	-0.117	0.000	0.11	1.4	OK
2.003	SWIC4	14	5.727	-0.104	0.000	0.20	2.8	OK
1.005	SWMH6	14	5.058	-0.065	0.000	0.61	29.8	OK

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Summary Wizard of 120 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	16.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	SWMH1	18	5.662	-0.163	0.000	0.17	6.3	OK
1.001	SWMH2	17	5.603	-0.130	0.000	0.37	11.2	OK
1.002	SWMH3	17	5.563	-0.124	0.000	0.41	16.1	OK
1.003	SMWH4	17	5.478	-0.113	0.000	0.49	17.1	OK
1.004	SMWH5	17	5.380	-0.151	0.000	0.23	17.5	OK
2.000	SWIC1	18	5.908	-0.132	0.000	0.03	0.5	OK
2.001	SWIC2	17	5.805	-0.126	0.000	0.06	0.7	OK
2.002	SWIC3	17	5.760	-0.123	0.000	0.07	0.9	OK
2.003	SWIC4	17	5.718	-0.114	0.000	0.13	1.9	OK
1.005	SWMH6	17	5.040	-0.083	0.000	0.41	19.8	OK

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Summary Wizard of 15 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	16.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s) Status
1.000	SWMH1	1	6.299	0.474	0.000	0.62	22.9	SURCHARGED
1.001	SWMH2	1	6.259	0.526	0.000	1.31	39.7	SURCHARGED
1.002	SWMH3	1	6.183	0.496	0.000	1.47	57.2	SURCHARGED
1.003	SWMH4	1	6.005	0.414	0.000	1.69	58.3	SURCHARGED
1.004	SWMH5	1	5.852	0.321	0.000	0.77	57.2	SURCHARGED
2.000	SWIC1	1	5.929	-0.111	0.000	0.15	2.1	OK
2.001	SWIC2	1	5.834	-0.097	0.000	0.27	3.3	OK
2.002	SWIC3	1	5.794	-0.089	0.000	0.34	4.2	OK
2.003	SWIC4	1	5.767	-0.064	0.000	0.60	8.4	OK
1.005	SWMH6	1	5.661	0.538	0.000	1.33	64.2	SURCHARGED

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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 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 0
 Number of Online Controls 0 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 0.258
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 16.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 360
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
1.000	SWMH1	4	6.146	0.321	0.000	0.56	20.6	SURCHARGED	
1.001	SWMH2	4	6.110	0.377	0.000	1.21	36.7	SURCHARGED	
1.002	SWMH3	4	6.045	0.358	0.000	1.36	52.8	SURCHARGED	
1.003	SMWH4	4	5.886	0.295	0.000	1.59	54.8	SURCHARGED	
1.004	SMWH5	4	5.746	0.215	0.000	0.73	54.5	SURCHARGED	
2.000	SWIC1	4	5.925	-0.115	0.000	0.13	1.8	OK	
2.001	SWIC2	4	5.830	-0.101	0.000	0.23	2.8	OK	
2.002	SWIC3	4	5.788	-0.095	0.000	0.28	3.6	OK	
2.003	SWIC4	4	5.758	-0.074	0.000	0.51	7.1	OK	
1.005	SWMH6	4	5.569	0.446	0.000	1.28	61.8	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 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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s) Summer and Winter

Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

				Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.000	SWMH1	6	5.817	-0.008	0.000	0.46		16.9	OK
1.001	SWMH2	6	5.788	0.055	0.000	0.99		29.9	SURCHARGED
1.002	SWMH3	6	5.743	0.056	0.000	1.11		42.9	SURCHARGED
1.003	SMWH4	6	5.625	0.034	0.000	1.32		45.6	SURCHARGED
1.004	SMWH5	6	5.435	-0.096	0.000	0.63		46.8	OK
2.000	SWIC1	6	5.920	-0.120	0.000	0.09		1.3	OK
2.001	SWIC2	6	5.822	-0.109	0.000	0.16		2.0	OK
2.002	SWIC3	6	5.779	-0.104	0.000	0.20		2.5	OK
2.003	SWIC4	6	5.745	-0.087	0.000	0.36		5.1	OK
1.005	SWMH6	6	5.248	0.125	0.000	1.09		52.6	SURCHARGED

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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	0
Number of Online Controls	0	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	0.258
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	16.000 Cv (Winter)	0.840	

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine Inertia	Status	OFF
DTS Status	ON		

Profile(s)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 360
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	SWMH1	21	5.659	-0.166	0.000	0.15	5.7	OK
1.001	SWMH2	20	5.598	-0.135	0.000	0.34	10.2	OK
1.002	SWMH3	20	5.557	-0.130	0.000	0.37	14.5	OK
1.003	SMWH4	19	5.471	-0.120	0.000	0.45	15.4	OK
1.004	SMWH5	19	5.376	-0.155	0.000	0.21	15.8	OK
2.000	SWIC1	21	5.907	-0.133	0.000	0.03	0.4	OK
2.001	SWIC2	20	5.803	-0.128	0.000	0.05	0.7	OK
2.002	SWIC3	20	5.758	-0.125	0.000	0.07	0.8	OK
2.003	SWIC4	19	5.716	-0.116	0.000	0.12	1.7	OK
1.005	SWMH6	19	5.036	-0.087	0.000	0.37	17.9	OK

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