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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAIN...	Designed by sgicivils Checked by	
Micro Drainage Network 2020.1.3		

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	100	PIMP (%)	100
M5-60 (mm)	19.000	Add Flow / Climate Change (%)	0
Ratio R	0.280	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.228	4-8	0.233	8-12	0.006

Total Area Contributing (ha) = 0.467

Total Pipe Volume (m³) = 190.958

Network Design Table for Storm

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	20.785	0.070	296.9	0.055	5.00	0.0	0.600		o	300	Pipe/Conduit	
1.001	25.832	0.090	287.0	0.023	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.002	8.624	0.030	287.5	0.020	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.003	21.691	0.075	289.2	0.043	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.004	10.886	0.040	272.2	0.049	0.00	0.0	0.600		o	300	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.38	29.000	0.055	0.0	0.0	0.0	0.91	64.1	9.9
1.001	50.00	5.85	28.930	0.078	0.0	0.0	0.0	0.92	65.2	14.1
1.002	50.00	6.00	28.840	0.098	0.0	0.0	0.0	0.92	65.2	17.7
1.003	50.00	6.40	28.810	0.141	0.0	0.0	0.0	0.92	65.0	25.5
1.004	50.00	6.59	28.735	0.190	0.0	0.0	0.0	0.95	67.0	34.3

SGi Consulting											Page 2	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP												
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...						Designed by sgicivils Checked by						
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Network Design Table for Storm												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section	Type
1.005	23.481	0.060	391.4	0.000	0.00	0.0		0.050	→[↓]		Cellular	Storage
2.000	16.324	0.750	21.8	0.039	5.00	0.0	0.600		○	225	Pipe/Conduit	
1.006	9.300	0.035	265.7	0.000	0.00	0.0	0.600		○	300	Pipe/Conduit	
3.000	30.230	0.815	37.1	0.031	5.00	0.0	0.600		○	150	Pipe/Conduit	
4.000	24.111	0.815	29.6	0.025	5.00	0.0	0.600		○	150	Pipe/Conduit	
1.007	24.990	0.085	294.0	0.015	0.00	0.0	0.600		○	300	Pipe/Conduit	
5.000	11.979	0.115	104.2	0.018	5.00	0.0	0.600		○	300	Pipe/Conduit	
5.001	41.993	0.215	195.3	0.022	0.00	0.0	0.600		○	300	Pipe/Conduit	
5.002	10.418	1.040	10.0	0.028	0.00	0.0	0.600		○	300	Pipe/Conduit	
6.000	33.722	0.920	36.7	0.057	5.00	0.0	0.600		○	300	Pipe/Conduit	
1.008	17.769	0.135	131.6	0.024	0.00	0.0	0.600		○	300	Pipe/Conduit	
7.000	7.661	0.485	15.8	0.018	5.00	0.0	0.600		○	150	Pipe/Conduit	
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.005	50.00	7.22	27.810	0.190		0.0	0.0	0.0	0.62	4515.8	34.3	
2.000	50.00	5.10	28.575	0.039		0.0	0.0	0.0	2.82	112.0	7.0	
1.006	50.00	7.38	27.750	0.229		0.0	0.0	0.0	0.96	67.8	41.3	
3.000	50.00	5.30	28.680	0.031		0.0	0.0	0.0	1.66	29.3	5.6	
4.000	50.00	5.22	28.680	0.025		0.0	0.0	0.0	1.86	32.8	4.5	
1.007	50.00	7.84	27.715	0.300		0.0	0.0	0.0	0.91	64.5	54.2	
5.000	50.00	5.13	29.000	0.018		0.0	0.0	0.0	1.54	108.9	3.2	
5.001	50.00	5.75	28.885	0.040		0.0	0.0	0.0	1.12	79.3	7.2	
5.002	50.00	5.79	28.670	0.068		0.0	0.0	0.0	5.00	353.1	12.3	
6.000	50.00	5.22	28.550	0.057		0.0	0.0	0.0	2.61	184.2	10.3	
1.008	50.00	8.05	27.630	0.449		0.0	0.0	0.0	1.37	96.8	81.1	
7.000	50.00	5.05	28.130	0.018		0.0	0.0	0.0	2.55	45.0	3.2	
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SGi Consulting		Page 4
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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdr (mm)
S1000	29.920	0.920	Open Manhole	600	1.000	29.000	300				
S1001	29.921	0.991	Open Manhole	600	1.001	28.930	300	1.000	28.930	300	
S1002	29.920	1.080	Open Manhole	600	1.002	28.840	300	1.001	28.840	300	
S1003	29.846	1.036	Open Manhole	600	1.003	28.810	300	1.002	28.810	300	
S1004	29.850	1.115	Open Manhole	600	1.004	28.735	300	1.003	28.735	300	
S1005 Tank	29.350	1.540	Open Manhole	1	1.005	27.810		1.004	28.695	300	
S1200	29.350	0.775	Open Manhole	600	2.000	28.575	225				
S1006	29.350	1.600	Open Manhole	1200	1.006	27.750	300	1.005	27.750		
								2.000	27.825	225	
RE01	29.859	1.179	Open Manhole	1	3.000	28.680	150				
RE02	29.902	1.222	Open Manhole	1	4.000	28.680	150				
S1007	29.905	2.190	Open Manhole	1200	1.007	27.715	300	1.006	27.715	300	
								3.000	27.865	150	
								4.000	27.865	150	
S3000	29.950	0.950	Open Manhole	600	5.000	29.000	300				
S3001	29.916	1.031	Open Manhole	600	5.001	28.885	300	5.000	28.885	300	
S3002	29.887	1.217	Open Manhole	600	5.002	28.670	300	5.001	28.670	300	
S4000	29.850	1.300	Open Manhole	1200	6.000	28.550	300				
S1008	29.874	2.244	Open Manhole	1350	1.008	27.630	300	1.007	27.630	300	
								5.002	27.630	300	
								6.000	27.630	300	
S5000	29.836	1.706	Open Manhole	600	7.000	28.130	150				
S1009	29.874	2.379	Open Manhole	1500	1.009	27.495	225	1.008	27.495	300	
								7.000	27.645	150	
	29.650	2.400	Open Manhole	0		OUTFALL		1.009	27.250	225	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
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S1000	382623.126	395148.006	382623.126	395148.006	Required	
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S1001	382608.412	395162.687	382608.412	395162.687	Required	
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S1002	382590.125	395180.932	382590.125	395180.932	Required	
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Date 20/12/2024 11:43
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Page 6



Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
	382604.404	395235.694			No Entry	

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Date 20/12/2024 11:43
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Micro Drainage

Page 7



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Network 2020.1.3

PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	300	S1000	29.920	29.000	0.620	Open Manhole	600
1.001	o	300	S1001	29.921	28.930	0.691	Open Manhole	600
1.002	o	300	S1002	29.920	28.840	0.780	Open Manhole	600
1.003	o	300	S1003	29.846	28.810	0.736	Open Manhole	600
1.004	o	300	S1004	29.850	28.735	0.815	Open Manhole	600
1.005 →[↓]			S1005 Tank	29.350	27.810	0.339	Open Manhole	1
2.000	o	225	S1200	29.350	28.575	0.550	Open Manhole	600
1.006	o	300	S1006	29.350	27.750	1.300	Open Manhole	1200
3.000	o	150	RE01	29.859	28.680	1.029	Open Manhole	1
4.000	o	150	RE02	29.902	28.680	1.072	Open Manhole	1
1.007	o	300	S1007	29.905	27.715	1.890	Open Manhole	1200
5.000	o	300	S3000	29.950	29.000	0.650	Open Manhole	600
5.001	o	300	S3001	29.916	28.885	0.731	Open Manhole	600
5.002	o	300	S3002	29.887	28.670	0.917	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	20.785	296.9	S1001	29.921	28.930	0.691	Open Manhole	600
1.001	25.832	287.0	S1002	29.920	28.840	0.780	Open Manhole	600
1.002	8.624	287.5	S1003	29.846	28.810	0.736	Open Manhole	600
1.003	21.691	289.2	S1004	29.850	28.735	0.815	Open Manhole	600
1.004	10.886	272.2	S1005 Tank	29.350	28.695	0.355	Open Manhole	1
1.005	23.481	391.4	S1006	29.350	27.750	0.399	Open Manhole	1200
2.000	16.324	21.8	S1006	29.350	27.825	1.300	Open Manhole	1200
1.006	9.300	265.7	S1007	29.905	27.715	1.890	Open Manhole	1200
3.000	30.230	37.1	S1007	29.905	27.865	1.890	Open Manhole	1200
4.000	24.111	29.6	S1007	29.905	27.865	1.890	Open Manhole	1200
1.007	24.990	294.0	S1008	29.874	27.630	1.944	Open Manhole	1350
5.000	11.979	104.2	S3001	29.916	28.885	0.731	Open Manhole	600
5.001	41.993	195.3	S3002	29.887	28.670	0.917	Open Manhole	600
5.002	10.418	10.0	S1008	29.874	27.630	1.944	Open Manhole	1350

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SGi Consulting		Page 8
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAIN...	Designed by sgicivils Checked by	
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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.000	o	300	S4000	29.850	28.550	1.000	Open Manhole	1200
1.008	o	300	S1008	29.874	27.630	1.944	Open Manhole	1350
7.000	o	150	S5000	29.836	28.130	1.556	Open Manhole	600
1.009	o	225	S1009	29.874	27.495	2.154	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
6.000	33.722	36.7	S1008	29.874	27.630	1.944	Open Manhole	1350
1.008	17.769	131.6	S1009	29.874	27.495	2.079	Open Manhole	1500
7.000	7.661	15.8	S1009	29.874	27.645	2.079	Open Manhole	1500
1.009	33.195	135.5		29.650	27.250	2.175	Open Manhole	0

SGi Consulting		Page 9
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.055	0.055	0.055
1.001	-	-	100	0.023	0.023	0.023
1.002	-	-	100	0.020	0.020	0.020
1.003	-	-	100	0.043	0.043	0.043
1.004	-	-	100	0.049	0.049	0.049
1.005	-	-	100	0.000	0.000	0.000
2.000	-	-	100	0.039	0.039	0.039
1.006	-	-	100	0.000	0.000	0.000
3.000	-	-	100	0.031	0.031	0.031
4.000	-	-	100	0.025	0.025	0.025
1.007	-	-	100	0.015	0.015	0.015
5.000	-	-	100	0.018	0.018	0.018
5.001	-	-	100	0.022	0.022	0.022
5.002	-	-	100	0.028	0.028	0.028
6.000	-	-	100	0.057	0.057	0.057
1.008	-	-	100	0.024	0.024	0.024
7.000	-	-	100	0.018	0.018	0.018
1.009	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.467	0.467	0.467

SGi Consulting		Page 11																																																																								
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP																																																																										
Date 20/12/2024 11:43	Designed by sgicivils																																																																									
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Micro Drainage		Network 2020.1.3																																																																								
Online Controls for Storm Hydro-Brake® Optimum Manhole: S1009, DS/PN: 1.009, Volume (m³): 5.5 Unit Reference MD-SCU-0149-3000-1855-3000 Design Head (m)1.855 Design Flow (l/s)30.0 Flush-Flo™Calculated ObjectiveLinear discharge profile ApplicationSurface Sump AvailableYes Diameter (mm)149 Invert Level (m)27.495 Minimum Outlet Pipe Diameter (mm)225 Suggested Manhole Diameter (mm)1200 Control Points Head (m) Flow (l/s) Design Point (Calculated)1.85530.0 Flush-Flo™0.17711.3 Kick-Flo®0.22311.0 Mean Flow over Head Range-20.2 The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>5.9</td><td>1.200</td><td>24.3</td><td>3.000</td><td>37.8</td><td>7.000</td><td>57.0</td></tr><tr><td>0.200</td><td>11.2</td><td>1.400</td><td>26.2</td><td>3.500</td><td>40.8</td><td>7.500</td><td>59.0</td></tr><tr><td>0.300</td><td>12.6</td><td>1.600</td><td>27.9</td><td>4.000</td><td>43.5</td><td>8.000</td><td>60.9</td></tr><tr><td>0.400</td><td>14.4</td><td>1.800</td><td>29.6</td><td>4.500</td><td>46.0</td><td>8.500</td><td>62.7</td></tr><tr><td>0.500</td><td>16.0</td><td>2.000</td><td>31.1</td><td>5.000</td><td>48.4</td><td>9.000</td><td>64.5</td></tr><tr><td>0.600</td><td>17.5</td><td>2.200</td><td>32.6</td><td>5.500</td><td>50.7</td><td>9.500</td><td>66.2</td></tr><tr><td>0.800</td><td>20.1</td><td>2.400</td><td>34.0</td><td>6.000</td><td>52.9</td><td></td><td></td></tr><tr><td>1.000</td><td>22.3</td><td>2.600</td><td>35.3</td><td>6.500</td><td>55.0</td><td></td><td></td></tr></table>			Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	5.9	1.200	24.3	3.000	37.8	7.000	57.0	0.200	11.2	1.400	26.2	3.500	40.8	7.500	59.0	0.300	12.6	1.600	27.9	4.000	43.5	8.000	60.9	0.400	14.4	1.800	29.6	4.500	46.0	8.500	62.7	0.500	16.0	2.000	31.1	5.000	48.4	9.000	64.5	0.600	17.5	2.200	32.6	5.500	50.7	9.500	66.2	0.800	20.1	2.400	34.0	6.000	52.9			1.000	22.3	2.600	35.3	6.500	55.0		
Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)																																																																			
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0.500	16.0	2.000	31.1	5.000	48.4	9.000	64.5																																																																			
0.600	17.5	2.200	32.6	5.500	50.7	9.500	66.2																																																																			
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SGi Consulting			Page 12																																																																																																																																												
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Date 20/12/2024 11:43		Designed by sgicivils																																																																																																																																													
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Storage Structures for Storm Cellular Storage Pipe: 1.005 Manning's N0.050Infiltration Coefficient Side (m/hr)0.00000 Invert Level (m)27.810Safety Factor1.0 Infiltration Coefficient Base (m/hr)0.00000Porosity0.95 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>150.0</td><td>0.0</td><td>1.201</td><td>0.0</td><td>0.0</td></tr><tr><td>1.200</td><td>150.0</td><td>0.0</td><td></td><td></td><td></td></tr></tbody></table> Volume Summary (Static) Length Calculations based on Centre-Centre <table><thead><tr><th>Pipe Number</th><th>USMH Name</th><th>Manhole Volume (m³)</th><th>Pipe Volume (m³)</th><th>Storage Structure Volume (m³)</th><th>Total Volume (m³)</th></tr></thead><tbody><tr><td>1.000</td><td>S1000</td><td>0.260</td><td>1.469</td><td>0.000</td><td>1.729</td></tr><tr><td>1.001</td><td>S1001</td><td>0.280</td><td>1.826</td><td>0.000</td><td>2.106</td></tr><tr><td>1.002</td><td>S1002</td><td>0.305</td><td>0.610</td><td>0.000</td><td>0.915</td></tr><tr><td>1.003</td><td>S1003</td><td>0.293</td><td>1.533</td><td>0.000</td><td>1.826</td></tr><tr><td>1.004</td><td>S1004</td><td>0.315</td><td>0.769</td><td>0.000</td><td>1.085</td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>0.000</td><td>171.071</td><td>0.000</td><td>171.071</td></tr><tr><td>2.000</td><td>S1200</td><td>0.219</td><td>0.649</td><td>0.000</td><td>0.868</td></tr><tr><td>1.006</td><td>S1006</td><td>1.810</td><td>0.657</td><td>0.000</td><td>2.467</td></tr><tr><td>3.000</td><td>RE01</td><td>0.000</td><td>0.534</td><td>0.000</td><td>0.534</td></tr><tr><td>4.000</td><td>RE02</td><td>0.000</td><td>0.426</td><td>0.000</td><td>0.426</td></tr><tr><td>1.007</td><td>S1007</td><td>2.477</td><td>1.766</td><td>0.000</td><td>4.243</td></tr><tr><td>5.000</td><td>S3000</td><td>0.269</td><td>0.847</td><td>0.000</td><td>1.115</td></tr><tr><td>5.001</td><td>S3001</td><td>0.292</td><td>2.968</td><td>0.000</td><td>3.260</td></tr><tr><td>5.002</td><td>S3002</td><td>0.344</td><td>0.736</td><td>0.000</td><td>1.081</td></tr><tr><td>6.000</td><td>S4000</td><td>1.470</td><td>2.384</td><td>0.000</td><td>3.854</td></tr><tr><td>1.008</td><td>S1008</td><td>3.212</td><td>1.256</td><td>0.000</td><td>4.468</td></tr><tr><td>7.000</td><td>S5000</td><td>0.482</td><td>0.135</td><td>0.000</td><td>0.618</td></tr><tr><td>1.009</td><td>S1009</td><td>4.204</td><td>1.320</td><td>0.000</td><td>5.524</td></tr><tr><td colspan="2">Total</td><td>16.232</td><td>190.958</td><td>0.000</td><td>207.191</td></tr></tbody></table>						Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	150.0	0.0	1.201	0.0	0.0	1.200	150.0	0.0				Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)	1.000	S1000	0.260	1.469	0.000	1.729	1.001	S1001	0.280	1.826	0.000	2.106	1.002	S1002	0.305	0.610	0.000	0.915	1.003	S1003	0.293	1.533	0.000	1.826	1.004	S1004	0.315	0.769	0.000	1.085	1.005	S1005 Tank	0.000	171.071	0.000	171.071	2.000	S1200	0.219	0.649	0.000	0.868	1.006	S1006	1.810	0.657	0.000	2.467	3.000	RE01	0.000	0.534	0.000	0.534	4.000	RE02	0.000	0.426	0.000	0.426	1.007	S1007	2.477	1.766	0.000	4.243	5.000	S3000	0.269	0.847	0.000	1.115	5.001	S3001	0.292	2.968	0.000	3.260	5.002	S3002	0.344	0.736	0.000	1.081	6.000	S4000	1.470	2.384	0.000	3.854	1.008	S1008	3.212	1.256	0.000	4.468	7.000	S5000	0.482	0.135	0.000	0.618	1.009	S1009	4.204	1.320	0.000	5.524	Total		16.232	190.958	0.000	207.191
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SGi Consulting		Page 13
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAIN...	Designed by sgicivils Checked by	
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Volume Summary (Static)

Length Calculations based on True Length

Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)
1.000	S1000	0.260	1.427	0.000	1.687
1.001	S1001	0.280	1.784	0.000	2.064
1.002	S1002	0.305	0.567	0.000	0.873
1.003	S1003	0.293	1.491	0.000	1.784
1.004	S1004	0.315	0.748	0.000	1.064
1.005	S1005 Tank	0.000	166.696	0.000	166.696
2.000	S1200	0.219	0.613	0.000	0.832
1.006	S1006	1.810	0.573	0.000	2.382
3.000	RE01	0.000	0.524	0.000	0.524
4.000	RE02	0.000	0.415	0.000	0.415
1.007	S1007	2.477	1.676	0.000	4.153
5.000	S3000	0.269	0.804	0.000	1.073
5.001	S3001	0.292	2.926	0.000	3.217
5.002	S3002	0.344	0.667	0.000	1.012
6.000	S4000	1.470	2.294	0.000	3.764
1.008	S1008	3.212	1.155	0.000	4.367
7.000	S5000	0.482	0.117	0.000	0.599
1.009	S1009	4.204	1.290	0.000	5.494
Total		16.232	185.768	0.000	202.000

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Date 20/12/2024 11:43
File SW NETWORK 1 & 2 DRAINAGE...

Micro Drainage

Page 14



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Summary Wizard of 15 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Hot Start (mins) 0

Hot Start Level (mm) 0

Manhole Headloss Coeff (Global) 0.500

Foul Sewage per hectare (l/s) 0.000

Additional Flow - % of Total Flow 0.000

MADD Factor * 10m³/ha Storage 2.000

Inlet Coeffiecient 0.800

Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0

Number of Online Controls 1

Number of Offline Controls 0

Number of Storage Structures 1

Number of Time/Area Diagrams 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Region England and Wales Cv

M5-60 (mm) 19.000

Ratio R 0.280

(Summer) 1.000

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	1 year Summer I+0%	15	31	29.920	29.077
1.001	S1001	15 minute	1 year Summer I+0%	15	32	29.921	29.018
1.002	S1002	15 minute	1 year Summer I+0%	15	35	29.920	28.952
1.003	S1003	15 minute	1 year Summer I+0%	15	35	29.846	28.929
1.004	S1004	15 minute	1 year Summer I+0%	15	39	29.850	28.874
1.005	S1005 Tank	15 minute	1 year Summer I+0%	15	86	29.350	27.889
2.000	S1200	15 minute	1 year Summer I+0%	15	36	29.350	28.610
1.006	S1006	15 minute	1 year Summer I+0%	15	86	29.350	27.889
3.000	RE01	15 minute	1 year Summer I+0%	15	35	29.859	28.721
4.000	RE02	15 minute	1 year Summer I+0%	15	35	29.902	28.714
1.007	S1007	15 minute	1 year Summer I+0%	15	71	29.905	27.946
5.000	S3000	15 minute	1 year Summer I+0%	15	30	29.950	29.035
5.001	S3001	15 minute	1 year Summer I+0%	15	33	29.916	28.939
5.002	S3002	15 minute	1 year Summer I+0%	15	37	29.887	28.706
6.000	S4000	15 minute	1 year Summer I+0%	15	36	29.850	28.593
1.008	S1008	15 minute	1 year Summer I+0%	15	71	29.874	27.949
7.000	S5000	15 minute	1 year Summer I+0%	15	45	29.836	28.156
1.009	S1009	15 minute	1 year Summer I+0%	15	71	29.874	27.933

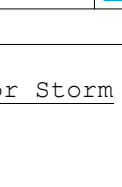
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SGi Consulting		Page 15
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Summary Wizard of 15 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.223	0.000	0.14					
1.001	S1001	-0.212	0.000	0.19					
1.002	S1002	-0.188	0.000	0.26					
1.003	S1003	-0.181	0.000	0.31					
1.004	S1004	-0.161	0.000	0.43					
1.005	S1005 Tank	-1.122	0.000	0.01					
2.000	S1200	-0.190	0.000	0.06					
1.006	S1006	-0.161	0.000	0.24					
3.000	RE01	-0.109	0.000	0.16					
4.000	RE02	-0.116	0.000	0.12					
1.007	S1007	-0.069	0.000	0.22					
5.000	S3000	-0.265	0.000	0.03					
5.001	S3001	-0.246	0.000	0.07					
5.002	S3002	-0.264	0.000	0.03					
6.000	S4000	-0.257	0.000	0.05					
1.008	S1008	0.019	0.000	0.21					
7.000	S5000	-0.124	0.000	0.07					
1.009	S1009	0.213	0.000	0.36					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.020	3.591	0.6	8.1	OK
1.001	S1001	0.217	5.092	0.6	10.8	OK
1.002	S1002	0.316	6.398	0.5	13.0	OK
1.003	S1003	0.167	9.205	0.7	17.7	OK
1.004	S1004	0.470	12.404	0.7	23.1	OK
1.005	S1005 Tank	0.000	12.404	0.2	22.9	OK
2.000	S1200	0.009	2.547	1.5	5.8	OK
1.006	S1006	14.549	12.721	0.5	12.6	OK
3.000	RE01	0.000	2.024	1.2	4.6	OK
4.000	RE02	0.000	1.633	1.2	3.7	OK
1.007	S1007	0.672	17.279	0.5	12.5	OK
5.000	S3000	0.008	1.175	0.6	2.7	OK
5.001	S3001	0.055	2.612	0.6	5.4	OK
5.002	S3002	0.060	4.439	1.8	8.8	OK
6.000	S4000	0.043	3.722	1.4	8.5	OK
1.008	S1008	2.503	26.933	0.9	17.3	SURCHARGED
7.000	S5000	0.006	1.175	1.3	2.7	OK
1.009	S1009	1.964	27.979	1.0	15.0	SURCHARGED

SGi Consulting		Page 16	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE			
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Summary Wizard of 30 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	30 minute	1 year Summer I+0%	30	34	29.920	29.075
1.001	S1001	30 minute	1 year Summer I+0%	30	34	29.921	29.016
1.002	S1002	30 minute	1 year Summer I+0%	30	36	29.920	28.950
1.003	S1003	30 minute	1 year Summer I+0%	30	38	29.846	28.929
1.004	S1004	30 minute	1 year Summer I+0%	30	40	29.850	28.874
1.005	S1005 Tank	30 minute	1 year Summer I+0%	30	79	29.350	27.917
2.000	S1200	30 minute	1 year Summer I+0%	30	39	29.350	28.609
1.006	S1006	30 minute	1 year Summer I+0%	30	79	29.350	27.917
3.000	RE01	30 minute	1 year Summer I+0%	30	38	29.859	28.719
4.000	RE02	30 minute	1 year Summer I+0%	30	38	29.902	28.714
1.007	S1007	30 minute	1 year Summer I+0%	30	67	29.905	27.972
5.000	S3000	30 minute	1 year Summer I+0%	30	34	29.950	29.034
5.001	S3001	30 minute	1 year Summer I+0%	30	34	29.916	28.938
5.002	S3002	30 minute	1 year Summer I+0%	30	40	29.887	28.706
6.000	S4000	30 minute	1 year Summer I+0%	30	39	29.850	28.592
1.008	S1008	30 minute	1 year Summer I+0%	30	65	29.874	27.975
7.000	S5000	30 minute	1 year Summer I+0%	30	48	29.836	28.155
1.009	S1009	30 minute	1 year Summer I+0%	30	65	29.874	27.959

SGi Consulting		Page 17
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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File SW NETWORK 1 & 2 DRAIN...	Checked by	
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Summary Wizard of 30 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.225	0.000	0.14					
1.001	S1001	-0.214	0.000	0.18					
1.002	S1002	-0.190	0.000	0.26					
1.003	S1003	-0.181	0.000	0.31					
1.004	S1004	-0.161	0.000	0.43					
1.005	S1005 Tank	-1.094	0.000	0.01					
2.000	S1200	-0.191	0.000	0.06					
1.006	S1006	-0.133	0.000	0.23					
3.000	RE01	-0.111	0.000	0.16					
4.000	RE02	-0.116	0.000	0.11					
1.007	S1007	-0.043	0.000	0.22					
5.000	S3000	-0.266	0.000	0.03					
5.001	S3001	-0.247	0.000	0.07					
5.002	S3002	-0.264	0.000	0.03					
6.000	S4000	-0.258	0.000	0.05					
1.008	S1008	0.045	0.000	0.19					
7.000	S5000	-0.125	0.000	0.07					
1.009	S1009	0.239	0.000	0.37					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum	Pipe	Status
				Velocity (m/s)	Flow (l/s)	
1.000	S1000	0.020	4.932	0.6	7.8	OK
1.001	S1001	0.212	6.994	0.6	10.5	OK
1.002	S1002	0.306	8.787	0.5	12.7	OK
1.003	S1003	0.165	12.643	0.7	17.5	OK
1.004	S1004	0.469	17.036	0.7	23.1	OK
1.005	S1005 Tank	0.000	17.037	0.2	23.2	OK
2.000	S1200	0.008	3.497	1.5	5.5	OK
1.006	S1006	18.460	16.449	0.5	12.2	OK
3.000	RE01	0.000	2.780	1.2	4.4	OK
4.000	RE02	0.000	2.242	1.2	3.5	OK
1.007	S1007	0.773	22.629	0.5	12.4	OK
5.000	S3000	0.008	1.614	0.6	2.6	OK
5.001	S3001	0.054	3.587	0.6	5.2	OK
5.002	S3002	0.059	6.097	1.8	8.6	OK
6.000	S4000	0.042	5.111	1.3	8.1	OK
1.008	S1008	2.662	35.812	0.9	15.5	SURCHARGED
7.000	S5000	0.006	1.614	1.3	2.6	OK
1.009	S1009	2.020	37.130	1.0	15.4	SURCHARGED

SGi Consulting		Page 18	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		60 minute 1 year Summer I+0%	60	43	29.920	29.067
1.001	S1001		60 minute 1 year Summer I+0%	60	43	29.921	29.007
1.002	S1002		60 minute 1 year Summer I+0%	60	44	29.920	28.940
1.003	S1003		60 minute 1 year Summer I+0%	60	44	29.846	28.918
1.004	S1004		60 minute 1 year Summer I+0%	60	44	29.850	28.862
1.005	S1005 Tank		60 minute 1 year Summer I+0%	60	71	29.350	27.937
2.000	S1200		60 minute 1 year Summer I+0%	60	46	29.350	28.605
1.006	S1006		60 minute 1 year Summer I+0%	60	71	29.350	27.937
3.000	RE01		60 minute 1 year Summer I+0%	60	45	29.859	28.715
4.000	RE02		60 minute 1 year Summer I+0%	60	45	29.902	28.710
1.007	S1007		60 minute 1 year Summer I+0%	60	70	29.905	27.955
5.000	S3000		60 minute 1 year Summer I+0%	60	43	29.950	29.031
5.001	S3001		60 minute 1 year Summer I+0%	60	44	29.916	28.932
5.002	S3002		60 minute 1 year Summer I+0%	60	45	29.887	28.703
6.000	S4000		60 minute 1 year Summer I+0%	60	46	29.850	28.588
1.008	S1008		60 minute 1 year Summer I+0%	60	68	29.874	27.955
7.000	S5000		60 minute 1 year Summer I+0%	60	54	29.836	28.152
1.009	S1009		60 minute 1 year Summer I+0%	60	68	29.874	27.941

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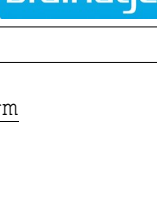
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Page 20



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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	120 minute	1 year Summer I+0%	120	54	29.920	29.057
1.001	S1001	120 minute	1 year Summer I+0%	120	55	29.921	28.996
1.002	S1002	120 minute	1 year Summer I+0%	120	58	29.920	28.925
1.003	S1003	120 minute	1 year Summer I+0%	120	58	29.846	28.902
1.004	S1004	120 minute	1 year Summer I+0%	120	58	29.850	28.844
1.005	S1005 Tank	120 minute	1 year Summer I+0%	120	69	29.350	27.940
2.000	S1200	120 minute	1 year Summer I+0%	120	55	29.350	28.601
1.006	S1006	120 minute	1 year Summer I+0%	120	69	29.350	27.940
3.000	RE01	120 minute	1 year Summer I+0%	120	54	29.859	28.710
4.000	RE02	120 minute	1 year Summer I+0%	120	54	29.902	28.705
1.007	S1007	120 minute	1 year Summer I+0%	120	76	29.905	27.935
5.000	S3000	120 minute	1 year Summer I+0%	120	54	29.950	29.025
5.001	S3001	120 minute	1 year Summer I+0%	120	57	29.916	28.925
5.002	S3002	120 minute	1 year Summer I+0%	120	58	29.887	28.700
6.000	S4000	120 minute	1 year Summer I+0%	120	55	29.850	28.583
1.008	S1008	120 minute	1 year Summer I+0%	120	76	29.874	27.924
7.000	S5000	120 minute	1 year Summer I+0%	120	60	29.836	28.149
1.009	S1009	120 minute	1 year Summer I+0%	120	76	29.874	27.891

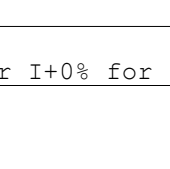
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Summary Wizard of 120 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.243	0.000	0.08					
1.001	S1001	-0.234	0.000	0.11					
1.002	S1002	-0.215	0.000	0.16					
1.003	S1003	-0.208	0.000	0.20					
1.004	S1004	-0.191	0.000	0.28					
1.005	S1005 Tank	-1.071	0.000	0.00					
2.000	S1200	-0.199	0.000	0.03					
1.006	S1006	-0.110	0.000	0.20					
3.000	RE01	-0.120	0.000	0.09					
4.000	RE02	-0.125	0.000	0.07					
1.007	S1007	-0.080	0.000	0.20					
5.000	S3000	-0.275	0.000	0.02					
5.001	S3001	-0.260	0.000	0.04					
5.002	S3002	-0.270	0.000	0.02					
6.000	S4000	-0.267	0.000	0.03					
1.008	S1008	-0.006	0.000	0.17					
7.000	S5000	-0.131	0.000	0.04					
1.009	S1009	0.171	0.000	0.34					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.015	8.844	0.5	4.5	OK
1.001	S1001	0.159	12.542	0.6	6.4	OK
1.002	S1002	0.213	15.758	0.5	7.9	OK
1.003	S1003	0.113	22.672	0.6	11.3	OK
1.004	S1004	0.283	30.551	0.7	15.1	OK
1.005	S1005 Tank	0.000	30.551	0.1	15.1	OK
2.000	S1200	0.006	6.271	1.3	3.2	OK
1.006	S1006	21.686	36.705	0.5	10.3	OK
3.000	RE01	0.000	4.985	1.0	2.6	OK
4.000	RE02	0.000	4.020	1.1	2.1	OK
1.007	S1007	0.626	48.117	0.6	11.3	OK
5.000	S3000	0.006	2.894	0.6	1.5	OK
5.001	S3001	0.040	6.432	0.6	3.2	OK
5.002	S3002	0.048	10.934	1.8	5.5	OK
6.000	S4000	0.032	9.166	1.2	4.7	OK
1.008	S1008	2.303	72.071	0.8	13.9	OK
7.000	S5000	0.004	2.894	1.2	1.5	OK
1.009	S1009	1.858	74.942	1.0	14.4	SURCHARGED

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Summary Wizard of 240 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

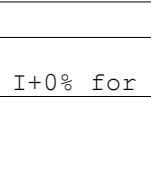
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	240 minute	1 year Summer I+0%	240	71	29.920	29.046
1.001	S1001	240 minute	1 year Summer I+0%	240	71	29.921	28.984
1.002	S1002	240 minute	1 year Summer I+0%	240	71	29.920	28.909
1.003	S1003	240 minute	1 year Summer I+0%	240	71	29.846	28.885
1.004	S1004	240 minute	1 year Summer I+0%	240	71	29.850	28.826
1.005	S1005 Tank	240 minute	1 year Summer I+0%	240	82	29.350	27.911
2.000	S1200	240 minute	1 year Summer I+0%	240	71	29.350	28.598
1.006	S1006	240 minute	1 year Summer I+0%	240	82	29.350	27.911
3.000	RE01	240 minute	1 year Summer I+0%	240	71	29.859	28.704
4.000	RE02	240 minute	1 year Summer I+0%	240	71	29.902	28.701
1.007	S1007	240 minute	1 year Summer I+0%	240	84	29.905	27.906
5.000	S3000	240 minute	1 year Summer I+0%	240	71	29.950	29.017
5.001	S3001	240 minute	1 year Summer I+0%	240	71	29.916	28.919
5.002	S3002	240 minute	1 year Summer I+0%	240	71	29.887	28.691
6.000	S4000	240 minute	1 year Summer I+0%	240	71	29.850	28.577
1.008	S1008	240 minute	1 year Summer I+0%	240	84	29.874	27.896
7.000	S5000	240 minute	1 year Summer I+0%	240	71	29.836	28.146
1.009	S1009	240 minute	1 year Summer I+0%	240	84	29.874	27.874

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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...				Designed by sgicivils Checked by					
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SGi Consulting		Page 26
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

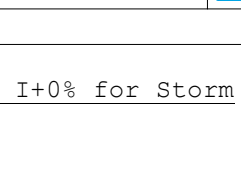
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	360 minute	1 year Summer I+0%	360	82	29.920	29.040
1.001	S1001	360 minute	1 year Summer I+0%	360	82	29.921	28.977
1.002	S1002	360 minute	1 year Summer I+0%	360	82	29.920	28.902
1.003	S1003	360 minute	1 year Summer I+0%	360	82	29.846	28.876
1.004	S1004	360 minute	1 year Summer I+0%	360	82	29.850	28.814
1.005	S1005 Tank	360 minute	1 year Summer I+0%	360	90	29.350	27.880
2.000	S1200	360 minute	1 year Summer I+0%	360	82	29.350	28.594
1.006	S1006	360 minute	1 year Summer I+0%	360	90	29.350	27.879
3.000	RE01	360 minute	1 year Summer I+0%	360	82	29.859	28.701
4.000	RE02	360 minute	1 year Summer I+0%	360	82	29.902	28.698
1.007	S1007	360 minute	1 year Summer I+0%	360	90	29.905	27.875
5.000	S3000	360 minute	1 year Summer I+0%	360	82	29.950	29.013
5.001	S3001	360 minute	1 year Summer I+0%	360	82	29.916	28.916
5.002	S3002	360 minute	1 year Summer I+0%	360	82	29.887	28.687
6.000	S4000	360 minute	1 year Summer I+0%	360	82	29.850	28.571
1.008	S1008	360 minute	1 year Summer I+0%	360	90	29.874	27.865
7.000	S5000	360 minute	1 year Summer I+0%	360	82	29.836	28.145
1.009	S1009	360 minute	1 year Summer I+0%	360	90	29.874	27.850

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Summary Wizard of 360 minute 1 year Summer I+0% for Storm									
Surcharged Flooded									
Total									
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
1.000	S1000	-0.260	0.000	0.04					
1.001	S1001	-0.253	0.000	0.06					
1.002	S1002	-0.238	0.000	0.09					
1.003	S1003	-0.234	0.000	0.11					
1.004	S1004	-0.221	0.000	0.16					
1.005	S1005 Tank	-1.131	0.000	0.00					
2.000	S1200	-0.206	0.000	0.02					
1.006	S1006	-0.171	0.000	0.16					
3.000	RE01	-0.129	0.000	0.05					
4.000	RE02	-0.132	0.000	0.04					
1.007	S1007	-0.140	0.000	0.17					
5.000	S3000	-0.287	0.000	0.01					
5.001	S3001	-0.269	0.000	0.02					
5.002	S3002	-0.283	0.000	0.01					
6.000	S4000	-0.279	0.000	0.02					
1.008	S1008	-0.065	0.000	0.16					
7.000	S5000	-0.135	0.000	0.02					
1.009	S1009	0.130	0.000	0.33					
PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.010	13.600	0.4	2.5	OK			
1.001	S1001	0.110	19.287	0.5	3.5	OK			
1.002	S1002	0.151	24.233	0.4	4.4	OK			
1.003	S1003	0.080	34.865	0.5	6.3	OK			
1.004	S1004	0.194	46.982	0.6	8.4	OK			
1.005	S1005 Tank	0.000	46.982	0.1	8.4	OK			
2.000	S1200	0.004	9.644	1.3	1.8	OK			
1.006	S1006	13.266	56.625	0.5	8.4	OK			
3.000	RE01	0.000	7.665	0.9	1.4	OK			
4.000	RE02	0.000	6.182	0.9	1.1	OK			
1.007	S1007	0.410	74.182	0.6	9.8	OK			
5.000	S3000	0.002	4.451	0.4	0.8	OK			
5.001	S3001	0.030	9.891	0.5	1.8	OK			
5.002	S3002	0.023	16.814	1.7	3.0	OK			
6.000	S4000	0.019	14.095	1.2	2.6	OK			
1.008	S1008	1.687	111.024	0.8	13.1	OK			
7.000	S5000	0.003	4.451	1.1	0.8	OK			
1.009	S1009	1.695	115.473	1.0	13.7	SURCHARGED			
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Summary Wizard of 480 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	480 minute	1 year Summer I+0%	480	90	29.920	29.037
1.001	S1001	480 minute	1 year Summer I+0%	480	90	29.921	28.973
1.002	S1002	480 minute	1 year Summer I+0%	480	90	29.920	28.896
1.003	S1003	480 minute	1 year Summer I+0%	480	90	29.846	28.871
1.004	S1004	480 minute	1 year Summer I+0%	480	90	29.850	28.807
1.005	S1005 Tank	480 minute	1 year Summer I+0%	480	96	29.350	27.856
2.000	S1200	480 minute	1 year Summer I+0%	480	90	29.350	28.591
1.006	S1006	480 minute	1 year Summer I+0%	480	96	29.350	27.855
3.000	RE01	480 minute	1 year Summer I+0%	480	90	29.859	28.700
4.000	RE02	480 minute	1 year Summer I+0%	480	90	29.902	28.697
1.007	S1007	480 minute	1 year Summer I+0%	480	96	29.905	27.849
5.000	S3000	480 minute	1 year Summer I+0%	480	90	29.950	29.011
5.001	S3001	480 minute	1 year Summer I+0%	480	90	29.916	28.914
5.002	S3002	480 minute	1 year Summer I+0%	480	90	29.887	28.684
6.000	S4000	480 minute	1 year Summer I+0%	480	90	29.850	28.568
1.008	S1008	480 minute	1 year Summer I+0%	480	96	29.874	27.839
7.000	S5000	480 minute	1 year Summer I+0%	480	90	29.836	28.142
1.009	S1009	480 minute	1 year Summer I+0%	480	96	29.874	27.827

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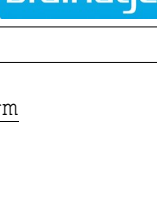
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Page 30



Summary Wizard of 600 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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

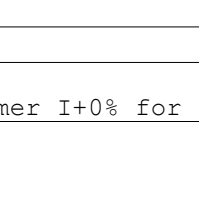
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years) 1, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	600 minute	1 year Summer I+0%	600	97	29.920	29.035
1.001	S1001	600 minute	1 year Summer I+0%	600	97	29.921	28.970
1.002	S1002	600 minute	1 year Summer I+0%	600	97	29.920	28.891
1.003	S1003	600 minute	1 year Summer I+0%	600	97	29.846	28.866
1.004	S1004	600 minute	1 year Summer I+0%	600	97	29.850	28.803
1.005	S1005 Tank	600 minute	1 year Summer I+0%	600	99	29.350	27.838
2.000	S1200	600 minute	1 year Summer I+0%	600	97	29.350	28.589
1.006	S1006	600 minute	1 year Summer I+0%	600	99	29.350	27.837
3.000	RE01	600 minute	1 year Summer I+0%	600	97	29.859	28.698
4.000	RE02	600 minute	1 year Summer I+0%	600	97	29.902	28.696
1.007	S1007	600 minute	1 year Summer I+0%	600	99	29.905	27.824
5.000	S3000	600 minute	1 year Summer I+0%	600	97	29.950	29.010
5.001	S3001	600 minute	1 year Summer I+0%	600	97	29.916	28.910
5.002	S3002	600 minute	1 year Summer I+0%	600	97	29.887	28.682
6.000	S4000	600 minute	1 year Summer I+0%	600	97	29.850	28.566
1.008	S1008	600 minute	1 year Summer I+0%	600	99	29.874	27.809
7.000	S5000	600 minute	1 year Summer I+0%	600	97	29.836	28.141
1.009	S1009	600 minute	1 year Summer I+0%	600	99	29.874	27.797

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SGi Consulting		Page 32
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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 720 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		720 minute 1 year Summer I+0%	720	100	29.920	29.033
1.001	S1001		720 minute 1 year Summer I+0%	720	100	29.921	28.968
1.002	S1002		720 minute 1 year Summer I+0%	720	100	29.920	28.888
1.003	S1003		720 minute 1 year Summer I+0%	720	100	29.846	28.863
1.004	S1004		720 minute 1 year Summer I+0%	720	100	29.850	28.799
1.005	S1005 Tank		720 minute 1 year Summer I+0%	720	104	29.350	27.828
2.000	S1200		720 minute 1 year Summer I+0%	720	100	29.350	28.587
1.006	S1006		720 minute 1 year Summer I+0%	720	104	29.350	27.825
3.000	RE01		720 minute 1 year Summer I+0%	720	100	29.859	28.697
4.000	RE02		720 minute 1 year Summer I+0%	720	100	29.902	28.695
1.007	S1007		720 minute 1 year Summer I+0%	720	104	29.905	27.805
5.000	S3000		720 minute 1 year Summer I+0%	720	100	29.950	29.009
5.001	S3001		720 minute 1 year Summer I+0%	720	100	29.916	28.907
5.002	S3002		720 minute 1 year Summer I+0%	720	100	29.887	28.681
6.000	S4000		720 minute 1 year Summer I+0%	720	100	29.850	28.564
1.008	S1008		720 minute 1 year Summer I+0%	720	104	29.874	27.777
7.000	S5000		720 minute 1 year Summer I+0%	720	100	29.836	28.140
1.009	S1009		720 minute 1 year Summer I+0%	720	104	29.874	27.765

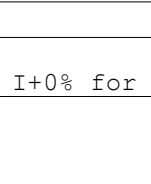
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SGi Consulting		Page 33
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Summary Wizard of 720 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.267	0.000	0.03					
1.001	S1001	-0.262	0.000	0.04					
1.002	S1002	-0.252	0.000	0.06					
1.003	S1003	-0.247	0.000	0.07					
1.004	S1004	-0.236	0.000	0.10					
1.005	S1005 Tank	-1.183	0.000	0.00					
2.000	S1200	-0.213	0.000	0.01					
1.006	S1006	-0.225	0.000	0.11					
3.000	RE01	-0.133	0.000	0.03					
4.000	RE02	-0.135	0.000	0.02					
1.007	S1007	-0.210	0.000	0.13					
5.000	S3000	-0.291	0.000	0.01					
5.001	S3001	-0.278	0.000	0.02					
5.002	S3002	-0.289	0.000	0.01					
6.000	S4000	-0.286	0.000	0.01					
1.008	S1008	-0.153	0.000	0.14					
7.000	S5000	-0.140	0.000	0.01					
1.009	S1009	0.045	0.000	0.29					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.008	17.664	0.4	1.6	OK
1.001	S1001	0.086	25.051	0.4	2.3	OK
1.002	S1002	0.115	31.474	0.4	2.9	OK
1.003	S1003	0.062	45.284	0.5	4.1	OK
1.004	S1004	0.154	61.021	0.5	5.5	OK
1.005	S1005 Tank	0.000	61.021	0.1	5.5	OK
2.000	S1200	0.002	12.525	1.1	1.1	OK
1.006	S1006	6.878	73.546	0.5	6.0	OK
3.000	RE01	0.000	9.956	0.8	0.9	OK
4.000	RE02	0.000	8.029	0.9	0.7	OK
1.007	S1007	0.185	96.348	0.6	7.8	OK
5.000	S3000	0.001	5.781	0.3	0.5	OK
5.001	S3001	0.020	12.846	0.5	1.2	OK
5.002	S3002	0.012	21.838	1.1	2.0	OK
6.000	S4000	0.010	18.306	0.9	1.7	OK
1.008	S1008	0.815	144.200	0.8	11.6	OK
7.000	S5000	0.001	5.781	1.1	0.5	OK
1.009	S1009	1.268	149.979	1.0	12.0	SURCHARGED

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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 960 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	960 minute	1 year Summer I+0%	960	107	29.920	29.031
1.001	S1001	960 minute	1 year Summer I+0%	960	107	29.921	28.965
1.002	S1002	960 minute	1 year Summer I+0%	960	107	29.920	28.883
1.003	S1003	960 minute	1 year Summer I+0%	960	107	29.846	28.857
1.004	S1004	960 minute	1 year Summer I+0%	960	107	29.850	28.794
1.005	S1005 Tank	960 minute	1 year Summer I+0%	960	107	29.350	27.821
2.000	S1200	960 minute	1 year Summer I+0%	960	107	29.350	28.585
1.006	S1006	960 minute	1 year Summer I+0%	960	107	29.350	27.815
3.000	RE01	960 minute	1 year Summer I+0%	960	107	29.859	28.696
4.000	RE02	960 minute	1 year Summer I+0%	960	107	29.902	28.694
1.007	S1007	960 minute	1 year Summer I+0%	960	107	29.905	27.785
5.000	S3000	960 minute	1 year Summer I+0%	960	107	29.950	29.007
5.001	S3001	960 minute	1 year Summer I+0%	960	107	29.916	28.904
5.002	S3002	960 minute	1 year Summer I+0%	960	107	29.887	28.679
6.000	S4000	960 minute	1 year Summer I+0%	960	107	29.850	28.562
1.008	S1008	960 minute	1 year Summer I+0%	960	107	29.874	27.707
7.000	S5000	960 minute	1 year Summer I+0%	960	107	29.836	28.138
1.009	S1009	960 minute	1 year Summer I+0%	960	107	29.874	27.663

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Micro Drainage

Page 35



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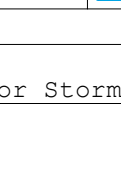
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Summary Wizard of 960 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.269	0.000		0.02					
1.001	S1001	-0.265	0.000		0.03					
1.002	S1002	-0.257	0.000		0.05					
1.003	S1003	-0.253	0.000		0.06					
1.004	S1004	-0.241	0.000		0.09					
1.005	S1005 Tank	-1.190	0.000		0.00					
2.000	S1200	-0.215	0.000		0.01					
1.006	S1006	-0.235	0.000		0.10					
3.000	RE01	-0.134	0.000		0.03					
4.000	RE02	-0.136	0.000		0.02					
1.007	S1007	-0.230	0.000		0.12					
5.000	S3000	-0.293	0.000		0.01					
5.001	S3001	-0.281	0.000		0.01					
5.002	S3002	-0.291	0.000		0.01					
6.000	S4000	-0.288	0.000		0.01					
1.008	S1008	-0.223	0.000		0.13					
7.000	S5000	-0.142	0.000		0.01					
1.009	S1009	-0.057	0.000		0.27					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.007	19.709	0.4	1.3	OK
1.001	S1001	0.079	27.951	0.4	1.9	OK
1.002	S1002	0.102	35.118	0.4	2.4	OK
1.003	S1003	0.055	50.527	0.5	3.4	OK
1.004	S1004	0.142	68.086	0.5	4.6	OK
1.005	S1005 Tank	0.000	68.086	0.1	4.6	OK
2.000	S1200	0.001	13.976	0.9	1.0	OK
1.006	S1006	5.890	82.062	0.5	5.5	OK
3.000	RE01	0.000	11.109	0.8	0.8	OK
4.000	RE02	0.000	8.959	0.9	0.6	OK
1.007	S1007	0.140	107.504	0.6	7.1	OK
5.000	S3000	0.001	6.450	0.2	0.4	OK
5.001	S3001	0.016	14.334	0.5	1.0	OK
5.002	S3002	0.008	24.367	0.9	1.7	OK
6.000	S4000	0.008	20.426	0.8	1.4	OK
1.008	S1008	0.300	160.897	0.8	10.7	OK
7.000	S5000	0.001	6.450	1.0	0.4	OK
1.009	S1009	0.638	167.345	0.9	11.2	OK

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SGi Consulting		Page 36	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
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File SW NETWORK 1 & 2 DRAINAGE			
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Summary Wizard of 1440 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 1 year Summer I+0%	1440	114	29.920	29.026
1.001	S1001		1440 minute 1 year Summer I+0%	1440	114	29.921	28.962
1.002	S1002		1440 minute 1 year Summer I+0%	1440	114	29.920	28.878
1.003	S1003		1440 minute 1 year Summer I+0%	1440	114	29.846	28.851
1.004	S1004		1440 minute 1 year Summer I+0%	1440	114	29.850	28.786
1.005	S1005 Tank		1440 minute 1 year Summer I+0%	1440	114	29.350	27.817
2.000	S1200		1440 minute 1 year Summer I+0%	1440	114	29.350	28.583
1.006	S1006		1440 minute 1 year Summer I+0%	1440	114	29.350	27.807
3.000	RE01		1440 minute 1 year Summer I+0%	1440	114	29.859	28.695
4.000	RE02		1440 minute 1 year Summer I+0%	1440	114	29.902	28.691
1.007	S1007		1440 minute 1 year Summer I+0%	1440	114	29.905	27.777
5.000	S3000		1440 minute 1 year Summer I+0%	1440	114	29.950	29.006
5.001	S3001		1440 minute 1 year Summer I+0%	1440	114	29.916	28.900
5.002	S3002		1440 minute 1 year Summer I+0%	1440	114	29.887	28.677
6.000	S4000		1440 minute 1 year Summer I+0%	1440	114	29.850	28.559
1.008	S1008		1440 minute 1 year Summer I+0%	1440	114	29.874	27.694
7.000	S5000		1440 minute 1 year Summer I+0%	1440	114	29.836	28.136
1.009	S1009		1440 minute 1 year Summer I+0%	1440	114	29.874	27.627

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Date 20/12/2024 11:43
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Page 37



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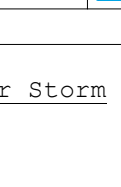
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Summary Wizard of 1440 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.						
1.000	S1000	-0.274	0.000	0.02						
1.001	S1001	-0.268	0.000	0.03						
1.002	S1002	-0.262	0.000	0.04						
1.003	S1003	-0.259	0.000	0.05						
1.004	S1004	-0.249	0.000	0.07						
1.005	S1005 Tank	-1.194	0.000	0.00						
2.000	S1200	-0.217	0.000	0.01						
1.006	S1006	-0.243	0.000	0.08						
3.000	RE01	-0.135	0.000	0.02						
4.000	RE02	-0.139	0.000	0.02						
1.007	S1007	-0.238	0.000	0.10						
5.000	S3000	-0.294	0.000	0.00						
5.001	S3001	-0.285	0.000	0.01						
5.002	S3002	-0.293	0.000	0.01						
6.000	S4000	-0.291	0.000	0.01						
1.008	S1008	-0.236	0.000	0.10						
7.000	S5000	-0.144	0.000	0.01						
1.009	S1009	-0.093	0.000	0.21						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.006	22.946	0.4	1.0	OK
1.001	S1001	0.070	32.541	0.4	1.5	OK
1.002	S1002	0.088	40.885	0.4	1.9	OK
1.003	S1003	0.047	58.825	0.5	2.7	OK
1.004	S1004	0.119	79.267	0.5	3.6	OK
1.005	S1005 Tank	0.000	79.267	0.1	3.6	OK
2.000	S1200	0.001	16.271	0.7	0.7	OK
1.006	S1006	5.158	95.538	0.5	4.3	OK
3.000	RE01	0.000	12.933	0.8	0.6	OK
4.000	RE02	0.000	10.430	0.9	0.5	OK
1.007	S1007	0.124	125.158	0.5	5.6	OK
5.000	S3000	0.000	7.509	0.2	0.3	OK
5.001	S3001	0.011	16.688	0.4	0.8	OK
5.002	S3002	0.004	28.368	0.7	1.3	OK
6.000	S4000	0.005	23.780	0.6	1.1	OK
1.008	S1008	0.244	187.319	0.8	8.4	OK
7.000	S5000	0.000	7.509	0.8	0.3	OK
1.009	S1009	0.434	194.826	0.9	8.7	OK

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SGi Consulting		Page 38	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
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Summary Wizard of 15 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

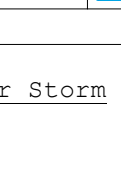
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	2 year Summer I+0%	15	22	29.920	29.090
1.001	S1001	15 minute	2 year Summer I+0%	15	26	29.921	29.030
1.002	S1002	15 minute	2 year Summer I+0%	15	26	29.920	28.971
1.003	S1003	15 minute	2 year Summer I+0%	15	26	29.846	28.949
1.004	S1004	15 minute	2 year Summer I+0%	15	27	29.850	28.897
1.005	S1005 Tank	15 minute	2 year Summer I+0%	15	73	29.350	27.935
2.000	S1200	15 minute	2 year Summer I+0%	15	29	29.350	28.616
1.006	S1006	15 minute	2 year Summer I+0%	15	73	29.350	27.935
3.000	RE01	15 minute	2 year Summer I+0%	15	28	29.859	28.727
4.000	RE02	15 minute	2 year Summer I+0%	15	28	29.902	28.719
1.007	S1007	15 minute	2 year Summer I+0%	15	53	29.905	28.060
5.000	S3000	15 minute	2 year Summer I+0%	15	21	29.950	29.039
5.001	S3001	15 minute	2 year Summer I+0%	15	25	29.916	28.947
5.002	S3002	15 minute	2 year Summer I+0%	15	31	29.887	28.711
6.000	S4000	15 minute	2 year Summer I+0%	15	29	29.850	28.600
1.008	S1008	15 minute	2 year Summer I+0%	15	46	29.874	28.085
7.000	S5000	15 minute	2 year Summer I+0%	15	40	29.836	28.160
1.009	S1009	15 minute	2 year Summer I+0%	15	46	29.874	28.073

SGi Consulting		Page 39
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAINA...	Checked by	
Micro Drainage		Network 2020.1.3

Summary Wizard of 15 minute 2 year Summer I+0% for Storm

		Surcharged	Flooded	Total					
	US/MH	Depth	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level
PN	Name	(m)	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol (m³)	Exceeded
1.000	S1000	-0.210	0.000	0.19					
1.001	S1001	-0.200	0.000	0.24					
1.002	S1002	-0.169	0.000	0.34					
1.003	S1003	-0.161	0.000	0.40					
1.004	S1004	-0.138	0.000	0.56					
1.005	S1005 Tank	-1.076	0.000	0.01					
2.000	S1200	-0.184	0.000	0.08					
1.006	S1006	-0.115	0.000	0.25					
3.000	RE01	-0.103	0.000	0.21					
4.000	RE02	-0.111	0.000	0.16					
1.007	S1007	0.045	0.000	0.23					
5.000	S3000	-0.261	0.000	0.04					
5.001	S3001	-0.238	0.000	0.09					
5.002	S3002	-0.259	0.000	0.04					
6.000	S4000	-0.250	0.000	0.07					
1.008	S1008	0.155	0.000	0.21					
7.000	S5000	-0.120	0.000	0.09					
1.009	S1009	0.353	0.000	0.41					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.024	4.648	0.6	10.4	OK
1.001	S1001	0.249	6.591	0.7	14.0	OK
1.002	S1002	0.452	8.281	0.6	16.7	OK
1.003	S1003	0.219	11.915	0.7	22.8	OK
1.004	S1004	0.611	16.056	0.8	29.7	OK
1.005	S1005 Tank	0.000	16.056	0.2	29.4	OK
2.000	S1200	0.010	3.296	1.5	7.5	OK
1.006	S1006	21.081	16.425	0.5	13.2	OK
3.000	RE01	0.000	2.620	1.3	5.9	OK
4.000	RE02	0.000	2.113	1.3	4.8	OK
1.007	S1007	1.069	22.308	0.6	13.1	SURCHARGED
5.000	S3000	0.010	1.521	0.7	3.5	OK
5.001	S3001	0.065	3.381	0.7	6.9	OK
5.002	S3002	0.069	5.747	2.0	11.3	OK
6.000	S4000	0.051	4.818	1.4	11.0	OK
1.008	S1008	3.262	34.771	0.9	17.7	SURCHARGED
7.000	S5000	0.007	1.521	1.4	3.5	OK
1.009	S1009	2.251	36.101	1.0	17.0	SURCHARGED

SGi Consulting		Page 40
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 30 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	30 minute	2 year Summer I+0%	30	26	29.920	29.087
1.001	S1001	30 minute	2 year Summer I+0%	30	27	29.921	29.029
1.002	S1002	30 minute	2 year Summer I+0%	30	27	29.920	28.969
1.003	S1003	30 minute	2 year Summer I+0%	30	27	29.846	28.948
1.004	S1004	30 minute	2 year Summer I+0%	30	28	29.850	28.896
1.005	S1005 Tank	30 minute	2 year Summer I+0%	30	63	29.350	27.976
2.000	S1200	30 minute	2 year Summer I+0%	30	33	29.350	28.614
1.006	S1006	30 minute	2 year Summer I+0%	30	63	29.350	27.976
3.000	RE01	30 minute	2 year Summer I+0%	30	32	29.859	28.726
4.000	RE02	30 minute	2 year Summer I+0%	30	32	29.902	28.718
1.007	S1007	30 minute	2 year Summer I+0%	30	51	29.905	28.066
5.000	S3000	30 minute	2 year Summer I+0%	30	25	29.950	29.038
5.001	S3001	30 minute	2 year Summer I+0%	30	27	29.916	28.946
5.002	S3002	30 minute	2 year Summer I+0%	30	32	29.887	28.710
6.000	S4000	30 minute	2 year Summer I+0%	30	33	29.850	28.598
1.008	S1008	30 minute	2 year Summer I+0%	30	45	29.874	28.097
7.000	S5000	30 minute	2 year Summer I+0%	30	43	29.836	28.159
1.009	S1009	30 minute	2 year Summer I+0%	30	45	29.874	28.084

SGi Consulting		Page 41											
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP													
Date 20/12/2024 11:43									Designed by sgicivils				
File SW NETWORK 1 & 2 DRAINA...									Checked by				
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Summary Wizard of 30 minute 2 year Summer I+0% for Storm													

SGi Consulting								Page 43	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP									
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...				Designed by sgicivils Checked by					
Micro Drainage				Network 2020.1.3					
<u>Summary Wizard of 60 minute 2 year Summer I+0% for Storm</u>									

SGi Consulting		Page 44
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...	Designed by sgicivils Checked by	
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Summary Wizard of 120 minute 2 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

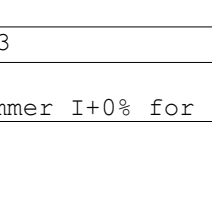
Rainfall Model	FSR	Ratio R	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	120 minute 2 year Summer I+0%		120	46	29.920	29.064
1.001	S1001	120 minute 2 year Summer I+0%		120	46	29.921	29.003
1.002	S1002	120 minute 2 year Summer I+0%		120	48	29.920	28.936
1.003	S1003	120 minute 2 year Summer I+0%		120	48	29.846	28.914
1.004	S1004	120 minute 2 year Summer I+0%		120	48	29.850	28.858
1.005	S1005 Tank	120 minute 2 year Summer I+0%		120	54	29.350	28.006
2.000	S1200	120 minute 2 year Summer I+0%		120	49	29.350	28.604
1.006	S1006	120 minute 2 year Summer I+0%		120	54	29.350	28.006
3.000	RE01	120 minute 2 year Summer I+0%		120	47	29.859	28.713
4.000	RE02	120 minute 2 year Summer I+0%		120	47	29.902	28.709
1.007	S1007	120 minute 2 year Summer I+0%		120	61	29.905	28.000
5.000	S3000	120 minute 2 year Summer I+0%		120	46	29.950	29.030
5.001	S3001	120 minute 2 year Summer I+0%		120	46	29.916	28.930
5.002	S3002	120 minute 2 year Summer I+0%		120	48	29.887	28.702
6.000	S4000	120 minute 2 year Summer I+0%		120	49	29.850	28.586
1.008	S1008	120 minute 2 year Summer I+0%		120	61	29.874	27.981
7.000	S5000	120 minute 2 year Summer I+0%		120	56	29.836	28.151
1.009	S1009	120 minute 2 year Summer I+0%		120	60	29.874	27.967

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SGi Consulting		Page 46
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 180 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

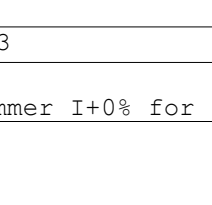
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	180 minute	2 year Summer I+0%	180	56	29.920	29.057
1.001	S1001	180 minute	2 year Summer I+0%	180	56	29.921	28.996
1.002	S1002	180 minute	2 year Summer I+0%	180	56	29.920	28.925
1.003	S1003	180 minute	2 year Summer I+0%	180	56	29.846	28.902
1.004	S1004	180 minute	2 year Summer I+0%	180	56	29.850	28.844
1.005	S1005 Tank	180 minute	2 year Summer I+0%	180	61	29.350	27.991
2.000	S1200	180 minute	2 year Summer I+0%	180	56	29.350	28.601
1.006	S1006	180 minute	2 year Summer I+0%	180	61	29.350	27.991
3.000	RE01	180 minute	2 year Summer I+0%	180	55	29.859	28.710
4.000	RE02	180 minute	2 year Summer I+0%	180	55	29.902	28.705
1.007	S1007	180 minute	2 year Summer I+0%	180	65	29.905	27.986
5.000	S3000	180 minute	2 year Summer I+0%	180	55	29.950	29.025
5.001	S3001	180 minute	2 year Summer I+0%	180	55	29.916	28.925
5.002	S3002	180 minute	2 year Summer I+0%	180	56	29.887	28.700
6.000	S4000	180 minute	2 year Summer I+0%	180	56	29.850	28.583
1.008	S1008	180 minute	2 year Summer I+0%	180	66	29.874	27.968
7.000	S5000	180 minute	2 year Summer I+0%	180	61	29.836	28.149
1.009	S1009	180 minute	2 year Summer I+0%	180	66	29.874	27.953

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SGi Consulting		Page 47																																																																																																																																																																																											
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<table><tr><th colspan="5">Surcharged Flooded</th><th colspan="2">Total</th><th colspan="2"></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th><th>Overflow Act.</th><th>Overflow Vol (m³)</th><th>Overflow Vol (m³)</th><th>Level Exceeded</th></tr><tr><td>1.000</td><td>S1000</td><td>-0.243</td><td>0.000</td><td>0.08</td><td></td><td></td><td></td><td></td></tr><tr><td>1.001</td><td>S1001</td><td>-0.234</td><td>0.000</td><td>0.11</td><td></td><td></td><td></td><td></td></tr><tr><td>1.002</td><td>S1002</td><td>-0.215</td><td>0.000</td><td>0.16</td><td></td><td></td><td></td><td></td></tr><tr><td>1.003</td><td>S1003</td><td>-0.208</td><td>0.000</td><td>0.20</td><td></td><td></td><td></td><td></td></tr><tr><td>1.004</td><td>S1004</td><td>-0.191</td><td>0.000</td><td>0.29</td><td></td><td></td><td></td><td></td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>-1.020</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td></tr><tr><td>2.000</td><td>S1200</td><td>-0.199</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td></tr><tr><td>1.006</td><td>S1006</td><td>-0.059</td><td>0.000</td><td>0.21</td><td></td><td></td><td></td><td></td></tr><tr><td>3.000</td><td>RE01</td><td>-0.120</td><td>0.000</td><td>0.09</td><td></td><td></td><td></td><td></td></tr><tr><td>4.000</td><td>RE02</td><td>-0.125</td><td>0.000</td><td>0.07</td><td></td><td></td><td></td><td></td></tr><tr><td>1.007</td><td>S1007</td><td>-0.029</td><td>0.000</td><td>0.21</td><td></td><td></td><td></td><td></td></tr><tr><td>5.000</td><td>S3000</td><td>-0.275</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td></tr><tr><td>5.001</td><td>S3001</td><td>-0.260</td><td>0.000</td><td>0.04</td><td></td><td></td><td></td><td></td></tr><tr><td>5.002</td><td>S3002</td><td>-0.270</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td></tr><tr><td>6.000</td><td>S4000</td><td>-0.267</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td></tr><tr><td>1.008</td><td>S1008</td><td>0.038</td><td>0.000</td><td>0.18</td><td></td><td></td><td></td><td></td></tr><tr><td>7.000</td><td>S5000</td><td>-0.131</td><td>0.000</td><td>0.04</td><td></td><td></td><td></td><td></td></tr><tr><td>1.009</td><td>S1009</td><td>0.233</td><td>0.000</td><td>0.37</td><td></td><td></td><td></td><td></td></tr></table>										Surcharged Flooded					Total				PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	1.000	S1000	-0.243	0.000	0.08					1.001	S1001	-0.234	0.000	0.11					1.002	S1002	-0.215	0.000	0.16					1.003	S1003	-0.208	0.000	0.20					1.004	S1004	-0.191	0.000	0.29					1.005	S1005 Tank	-1.020	0.000	0.00					2.000	S1200	-0.199	0.000	0.03					1.006	S1006	-0.059	0.000	0.21					3.000	RE01	-0.120	0.000	0.09					4.000	RE02	-0.125	0.000	0.07					1.007	S1007	-0.029	0.000	0.21					5.000	S3000	-0.275	0.000	0.02					5.001	S3001	-0.260	0.000	0.04					5.002	S3002	-0.270	0.000	0.02					6.000	S4000	-0.267	0.000	0.03					1.008	S1008	0.038	0.000	0.18					7.000	S5000	-0.131	0.000	0.04					1.009	S1009	0.233	0.000	0.37				
Surcharged Flooded					Total																																																																																																																																																																																								
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5.002	S3002	-0.270	0.000	0.02																																																																																																																																																																																									
6.000	S4000	-0.267	0.000	0.03																																																																																																																																																																																									
1.008	S1008	0.038	0.000	0.18																																																																																																																																																																																									
7.000	S5000	-0.131	0.000	0.04																																																																																																																																																																																									
1.009	S1009	0.233	0.000	0.37																																																																																																																																																																																									
<table><tr><th>PN</th><th>US/MH Name</th><th>Maximum Vol (m³)</th><th>Discharge Vol (m³)</th><th>Maximum Velocity (m/s)</th><th>Pipe Flow (l/s)</th><th>Status</th></tr><tr><td>1.000</td><td>S1000</td><td>0.015</td><td>12.808</td><td>0.5</td><td>4.5</td><td>OK</td></tr><tr><td>1.001</td><td>S1001</td><td>0.159</td><td>18.165</td><td>0.6</td><td>6.4</td><td>OK</td></tr><tr><td>1.002</td><td>S1002</td><td>0.214</td><td>22.822</td><td>0.5</td><td>7.9</td><td>OK</td></tr><tr><td>1.003</td><td>S1003</td><td>0.113</td><td>32.836</td><td>0.6</td><td>11.3</td><td>OK</td></tr><tr><td>1.004</td><td>S1004</td><td>0.286</td><td>44.247</td><td>0.7</td><td>15.2</td><td>OK</td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>0.000</td><td>44.247</td><td>0.1</td><td>15.2</td><td>OK</td></tr><tr><td>2.000</td><td>S1200</td><td>0.006</td><td>9.083</td><td>1.3</td><td>3.2</td><td>OK</td></tr><tr><td>1.006</td><td>S1006</td><td>28.927</td><td>53.316</td><td>0.5</td><td>10.8</td><td>OK</td></tr><tr><td>3.000</td><td>RE01</td><td>0.000</td><td>7.219</td><td>1.0</td><td>2.6</td><td>OK</td></tr><tr><td>4.000</td><td>RE02</td><td>0.000</td><td>5.822</td><td>1.1</td><td>2.1</td><td>OK</td></tr><tr><td>1.007</td><td>S1007</td><td>0.830</td><td>69.850</td><td>0.6</td><td>12.0</td><td>OK</td></tr><tr><td>5.000</td><td>S3000</td><td>0.006</td><td>4.192</td><td>0.6</td><td>1.5</td><td>OK</td></tr><tr><td>5.001</td><td>S3001</td><td>0.040</td><td>9.315</td><td>0.6</td><td>3.2</td><td>OK</td></tr><tr><td>5.002</td><td>S3002</td><td>0.049</td><td>15.836</td><td>1.8</td><td>5.5</td><td>OK</td></tr><tr><td>6.000</td><td>S4000</td><td>0.032</td><td>13.274</td><td>1.2</td><td>4.7</td><td>OK</td></tr><tr><td>1.008</td><td>S1008</td><td>2.619</td><td>104.549</td><td>0.8</td><td>14.8</td><td>SURCHARGED</td></tr><tr><td>7.000</td><td>S5000</td><td>0.004</td><td>4.192</td><td>1.2</td><td>1.5</td><td>OK</td></tr><tr><td>1.009</td><td>S1009</td><td>2.008</td><td>108.733</td><td>1.0</td><td>15.4</td><td>SURCHARGED</td></tr></table>										PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status	1.000	S1000	0.015	12.808	0.5	4.5	OK	1.001	S1001	0.159	18.165	0.6	6.4	OK	1.002	S1002	0.214	22.822	0.5	7.9	OK	1.003	S1003	0.113	32.836	0.6	11.3	OK	1.004	S1004	0.286	44.247	0.7	15.2	OK	1.005	S1005 Tank	0.000	44.247	0.1	15.2	OK	2.000	S1200	0.006	9.083	1.3	3.2	OK	1.006	S1006	28.927	53.316	0.5	10.8	OK	3.000	RE01	0.000	7.219	1.0	2.6	OK	4.000	RE02	0.000	5.822	1.1	2.1	OK	1.007	S1007	0.830	69.850	0.6	12.0	OK	5.000	S3000	0.006	4.192	0.6	1.5	OK	5.001	S3001	0.040	9.315	0.6	3.2	OK	5.002	S3002	0.049	15.836	1.8	5.5	OK	6.000	S4000	0.032	13.274	1.2	4.7	OK	1.008	S1008	2.619	104.549	0.8	14.8	SURCHARGED	7.000	S5000	0.004	4.192	1.2	1.5	OK	1.009	S1009	2.008	108.733	1.0	15.4	SURCHARGED																																															
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1.004	S1004	0.286	44.247	0.7	15.2	OK																																																																																																																																																																																							
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Micro Drainage		Network 2020.1.3

Summary Wizard of 240 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	240 minute	2 year Summer I+0%	240	62	29.920	29.051
1.001	S1001	240 minute	2 year Summer I+0%	240	62	29.921	28.991
1.002	S1002	240 minute	2 year Summer I+0%	240	62	29.920	28.917
1.003	S1003	240 minute	2 year Summer I+0%	240	62	29.846	28.894
1.004	S1004	240 minute	2 year Summer I+0%	240	62	29.850	28.835
1.005	S1005 Tank	240 minute	2 year Summer I+0%	240	65	29.350	27.971
2.000	S1200	240 minute	2 year Summer I+0%	240	61	29.350	28.600
1.006	S1006	240 minute	2 year Summer I+0%	240	65	29.350	27.972
3.000	RE01	240 minute	2 year Summer I+0%	240	61	29.859	28.707
4.000	RE02	240 minute	2 year Summer I+0%	240	61	29.902	28.703
1.007	S1007	240 minute	2 year Summer I+0%	240	68	29.905	27.967
5.000	S3000	240 minute	2 year Summer I+0%	240	61	29.950	29.021
5.001	S3001	240 minute	2 year Summer I+0%	240	62	29.916	28.922
5.002	S3002	240 minute	2 year Summer I+0%	240	62	29.887	28.696
6.000	S4000	240 minute	2 year Summer I+0%	240	61	29.850	28.581
1.008	S1008	240 minute	2 year Summer I+0%	240	69	29.874	27.953
7.000	S5000	240 minute	2 year Summer I+0%	240	63	29.836	28.147
1.009	S1009	240 minute	2 year Summer I+0%	240	69	29.874	27.938

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Page 49

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Micro Drainage

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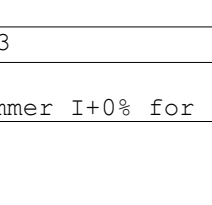


Summary Wizard of 240 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
		Depth (m)	Volume (m³)							
1.000	S1000	-0.249	0.000	0.07						
1.001	S1001	-0.239	0.000	0.09						
1.002	S1002	-0.223	0.000	0.14						
1.003	S1003	-0.216	0.000	0.17						
1.004	S1004	-0.200	0.000	0.24						
1.005	S1005 Tank	-1.040	0.000	0.00						
2.000	S1200	-0.200	0.000	0.03						
1.006	S1006	-0.078	0.000	0.20						
3.000	RE01	-0.123	0.000	0.08						
4.000	RE02	-0.127	0.000	0.06						
1.007	S1007	-0.048	0.000	0.20						
5.000	S3000	-0.279	0.000	0.01						
5.001	S3001	-0.263	0.000	0.04						
5.002	S3002	-0.274	0.000	0.02						
6.000	S4000	-0.269	0.000	0.02						
1.008	S1008	0.023	0.000	0.18						
7.000	S5000	-0.133	0.000	0.03						
1.009	S1009	0.218	0.000	0.36						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.013	14.229	0.5	3.8	OK
1.001	S1001	0.147	20.179	0.5	5.4	OK
1.002	S1002	0.193	25.354	0.5	6.7	OK
1.003	S1003	0.103	36.478	0.6	9.6	OK
1.004	S1004	0.247	49.155	0.6	13.0	OK
1.005	S1005 Tank	0.000	49.155	0.1	12.9	OK
2.000	S1200	0.006	10.090	1.3	2.7	OK
1.006	S1006	26.189	59.243	0.5	10.4	OK
3.000	RE01	0.000	8.020	1.0	2.2	OK
4.000	RE02	0.000	6.468	1.0	1.7	OK
1.007	S1007	0.753	77.612	0.6	11.5	OK
5.000	S3000	0.005	4.657	0.6	1.3	OK
5.001	S3001	0.036	10.349	0.5	2.8	OK
5.002	S3002	0.040	17.592	1.8	4.7	OK
6.000	S4000	0.030	14.747	1.2	4.0	OK
1.008	S1008	2.526	116.160	0.8	14.6	SURCHARGED
7.000	S5000	0.004	4.657	1.1	1.3	OK
1.009	S1009	1.977	120.814	1.0	15.2	SURCHARGED

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Micro Drainage		Network 2020.1.3

Summary Wizard of 360 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	360 minute	2 year Summer I+0%	360	76	29.920	29.044
1.001	S1001	360 minute	2 year Summer I+0%	360	76	29.921	28.983
1.002	S1002	360 minute	2 year Summer I+0%	360	76	29.920	28.908
1.003	S1003	360 minute	2 year Summer I+0%	360	76	29.846	28.883
1.004	S1004	360 minute	2 year Summer I+0%	360	76	29.850	28.824
1.005	S1005 Tank	360 minute	2 year Summer I+0%	360	75	29.350	27.934
2.000	S1200	360 minute	2 year Summer I+0%	360	76	29.350	28.598
1.006	S1006	360 minute	2 year Summer I+0%	360	75	29.350	27.934
3.000	RE01	360 minute	2 year Summer I+0%	360	76	29.859	28.704
4.000	RE02	360 minute	2 year Summer I+0%	360	76	29.902	28.700
1.007	S1007	360 minute	2 year Summer I+0%	360	79	29.905	27.929
5.000	S3000	360 minute	2 year Summer I+0%	360	76	29.950	29.016
5.001	S3001	360 minute	2 year Summer I+0%	360	76	29.916	28.919
5.002	S3002	360 minute	2 year Summer I+0%	360	76	29.887	28.690
6.000	S4000	360 minute	2 year Summer I+0%	360	76	29.850	28.576
1.008	S1008	360 minute	2 year Summer I+0%	360	79	29.874	27.919
7.000	S5000	360 minute	2 year Summer I+0%	360	76	29.836	28.146
1.009	S1009	360 minute	2 year Summer I+0%	360	79	29.874	27.888

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Page 52



Summary Wizard of 480 minute 2 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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

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

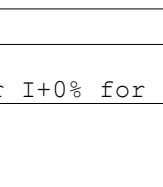
Return Period(s) (years) 1, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	480 minute	2 year Summer I+0%	480	81	29.920	29.040
1.001	S1001	480 minute	2 year Summer I+0%	480	81	29.921	28.977
1.002	S1002	480 minute	2 year Summer I+0%	480	81	29.920	28.902
1.003	S1003	480 minute	2 year Summer I+0%	480	81	29.846	28.876
1.004	S1004	480 minute	2 year Summer I+0%	480	81	29.850	28.815
1.005	S1005 Tank	480 minute	2 year Summer I+0%	480	85	29.350	27.900
2.000	S1200	480 minute	2 year Summer I+0%	480	81	29.350	28.594
1.006	S1006	480 minute	2 year Summer I+0%	480	85	29.350	27.900
3.000	RE01	480 minute	2 year Summer I+0%	480	81	29.859	28.701
4.000	RE02	480 minute	2 year Summer I+0%	480	81	29.902	28.698
1.007	S1007	480 minute	2 year Summer I+0%	480	87	29.905	27.896
5.000	S3000	480 minute	2 year Summer I+0%	480	81	29.950	29.014
5.001	S3001	480 minute	2 year Summer I+0%	480	81	29.916	28.916
5.002	S3002	480 minute	2 year Summer I+0%	480	81	29.887	28.687
6.000	S4000	480 minute	2 year Summer I+0%	480	81	29.850	28.572
1.008	S1008	480 minute	2 year Summer I+0%	480	87	29.874	27.886
7.000	S5000	480 minute	2 year Summer I+0%	480	81	29.836	28.145
1.009	S1009	480 minute	2 year Summer I+0%	480	87	29.874	27.866

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Micro Drainage		Network 2020.1.3							
Summary Wizard of 480 minute 2 year Summer I+0% for Storm									
Surcharged Flooded									
Total									
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
1.000	S1000	-0.260	0.000	0.04					
1.001	S1001	-0.253	0.000	0.06					
1.002	S1002	-0.238	0.000	0.09					
1.003	S1003	-0.234	0.000	0.11					
1.004	S1004	-0.220	0.000	0.16					
1.005	S1005 Tank	-1.111	0.000	0.00					
2.000	S1200	-0.206	0.000	0.02					
1.006	S1006	-0.150	0.000	0.17					
3.000	RE01	-0.129	0.000	0.05					
4.000	RE02	-0.132	0.000	0.04					
1.007	S1007	-0.119	0.000	0.17					
5.000	S3000	-0.286	0.000	0.01					
5.001	S3001	-0.269	0.000	0.02					
5.002	S3002	-0.283	0.000	0.01					
6.000	S4000	-0.278	0.000	0.02					
1.008	S1008	-0.044	0.000	0.16					
7.000	S5000	-0.135	0.000	0.02					
1.009	S1009	0.146	0.000	0.33					
PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.010	18.202	0.4	2.5	OK			
1.001	S1001	0.111	25.814	0.5	3.5	OK			
1.002	S1002	0.152	32.433	0.4	4.4	OK			
1.003	S1003	0.080	46.663	0.5	6.3	OK			
1.004	S1004	0.195	62.880	0.6	8.5	OK			
1.005	S1005 Tank	0.000	62.880	0.1	8.5	OK			
2.000	S1200	0.004	12.907	1.3	1.8	OK			
1.006	S1006	16.191	75.787	0.5	8.7	OK			
3.000	RE01	0.000	10.259	0.9	1.4	OK			
4.000	RE02	0.000	8.274	0.9	1.1	OK			
1.007	S1007	0.483	99.284	0.6	10.0	OK			
5.000	S3000	0.002	5.957	0.5	0.8	OK			
5.001	S3001	0.030	13.238	0.5	1.8	OK			
5.002	S3002	0.023	22.504	1.7	3.1	OK			
6.000	S4000	0.019	18.864	1.2	2.6	OK			
1.008	S1008	1.902	148.593	0.8	13.4	OK			
7.000	S5000	0.003	5.957	1.1	0.8	OK			
1.009	S1009	1.759	154.548	1.0	13.9	SURCHARGED			
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Micro Drainage		Network 2020.1.3

Summary Wizard of 600 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	600 minute	2 year Summer I+0%	600	88	29.920	29.038
1.001	S1001	600 minute	2 year Summer I+0%	600	88	29.921	28.974
1.002	S1002	600 minute	2 year Summer I+0%	600	88	29.920	28.897
1.003	S1003	600 minute	2 year Summer I+0%	600	88	29.846	28.872
1.004	S1004	600 minute	2 year Summer I+0%	600	88	29.850	28.809
1.005	S1005 Tank	600 minute	2 year Summer I+0%	600	91	29.350	27.874
2.000	S1200	600 minute	2 year Summer I+0%	600	88	29.350	28.591
1.006	S1006	600 minute	2 year Summer I+0%	600	91	29.350	27.874
3.000	RE01	600 minute	2 year Summer I+0%	600	88	29.859	28.700
4.000	RE02	600 minute	2 year Summer I+0%	600	88	29.902	28.697
1.007	S1007	600 minute	2 year Summer I+0%	600	91	29.905	27.870
5.000	S3000	600 minute	2 year Summer I+0%	600	88	29.950	29.012
5.001	S3001	600 minute	2 year Summer I+0%	600	88	29.916	28.915
5.002	S3002	600 minute	2 year Summer I+0%	600	88	29.887	28.685
6.000	S4000	600 minute	2 year Summer I+0%	600	88	29.850	28.569
1.008	S1008	600 minute	2 year Summer I+0%	600	91	29.874	27.860
7.000	S5000	600 minute	2 year Summer I+0%	600	88	29.836	28.143
1.009	S1009	600 minute	2 year Summer I+0%	600	91	29.874	27.846

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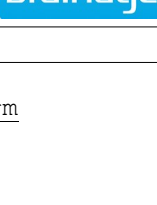
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Micro Drainage

Network 2020.1.3

Page 56



Summary Wizard of 720 minute 2 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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	720 minute	2 year Summer I+0%	720	95	29.920	29.036
1.001	S1001	720 minute	2 year Summer I+0%	720	95	29.921	28.971
1.002	S1002	720 minute	2 year Summer I+0%	720	95	29.920	28.893
1.003	S1003	720 minute	2 year Summer I+0%	720	95	29.846	28.869
1.004	S1004	720 minute	2 year Summer I+0%	720	95	29.850	28.805
1.005	S1005 Tank	720 minute	2 year Summer I+0%	720	97	29.350	27.854
2.000	S1200	720 minute	2 year Summer I+0%	720	95	29.350	28.589
1.006	S1006	720 minute	2 year Summer I+0%	720	97	29.350	27.854
3.000	RE01	720 minute	2 year Summer I+0%	720	95	29.859	28.699
4.000	RE02	720 minute	2 year Summer I+0%	720	95	29.902	28.696
1.007	S1007	720 minute	2 year Summer I+0%	720	97	29.905	27.847
5.000	S3000	720 minute	2 year Summer I+0%	720	95	29.950	29.010
5.001	S3001	720 minute	2 year Summer I+0%	720	95	29.916	28.912
5.002	S3002	720 minute	2 year Summer I+0%	720	95	29.887	28.683
6.000	S4000	720 minute	2 year Summer I+0%	720	95	29.850	28.567
1.008	S1008	720 minute	2 year Summer I+0%	720	97	29.874	27.837
7.000	S5000	720 minute	2 year Summer I+0%	720	95	29.836	28.141
1.009	S1009	720 minute	2 year Summer I+0%	720	97	29.874	27.825

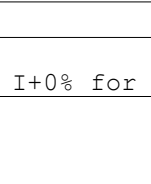
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SGi Consulting		Page 57
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAIN...	Checked by	
Micro Drainage		Network 2020.1.3

Summary Wizard of 720 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.264	0.000	0.03					
1.001	S1001	-0.259	0.000	0.05					
1.002	S1002	-0.247	0.000	0.07					
1.003	S1003	-0.241	0.000	0.09					
1.004	S1004	-0.230	0.000	0.12					
1.005	S1005 Tank	-1.157	0.000	0.00					
2.000	S1200	-0.211	0.000	0.01					
1.006	S1006	-0.196	0.000	0.13					
3.000	RE01	-0.131	0.000	0.04					
4.000	RE02	-0.134	0.000	0.03					
1.007	S1007	-0.168	0.000	0.15					
5.000	S3000	-0.290	0.000	0.01					
5.001	S3001	-0.273	0.000	0.02					
5.002	S3002	-0.287	0.000	0.01					
6.000	S4000	-0.283	0.000	0.01					
1.008	S1008	-0.093	0.000	0.15					
7.000	S5000	-0.139	0.000	0.02					
1.009	S1009	0.105	0.000	0.31					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Vol (m³)	Vol (m³)			
1.000	S1000	0.009	21.015	0.4	1.9	OK
1.001	S1001	0.095	29.804	0.5	2.7	OK
1.002	S1002	0.129	37.446	0.4	3.4	OK
1.003	S1003	0.070	53.876	0.5	4.9	OK
1.004	S1004	0.169	72.599	0.5	6.6	OK
1.005	S1005 Tank	0.000	72.599	0.1	6.6	OK
2.000	S1200	0.003	14.902	1.3	1.4	OK
1.006	S1006	9.714	87.501	0.5	7.0	OK
3.000	RE01	0.000	11.845	0.8	1.1	OK
4.000	RE02	0.000	9.553	0.9	0.9	OK
1.007	S1007	0.311	114.629	0.6	8.7	OK
5.000	S3000	0.002	6.878	0.3	0.6	OK
5.001	S3001	0.024	15.284	0.5	1.4	OK
5.002	S3002	0.016	25.982	1.3	2.4	OK
6.000	S4000	0.013	21.780	1.1	2.0	OK
1.008	S1008	1.396	171.561	0.8	12.7	OK
7.000	S5000	0.002	6.878	1.1	0.6	OK
1.009	S1009	1.592	178.437	1.0	13.2	SURCHARGED

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 960 minute 2 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

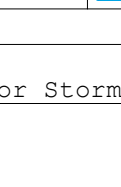
Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	960 minute	2 year Summer I+0%	960	103	29.920	29.033
1.001	S1001	960 minute	2 year Summer I+0%	960	103	29.921	28.968
1.002	S1002	960 minute	2 year Summer I+0%	960	103	29.920	28.888
1.003	S1003	960 minute	2 year Summer I+0%	960	103	29.846	28.862
1.004	S1004	960 minute	2 year Summer I+0%	960	103	29.850	28.799
1.005	S1005 Tank	960 minute	2 year Summer I+0%	960	102	29.350	27.829
2.000	S1200	960 minute	2 year Summer I+0%	960	103	29.350	28.587
1.006	S1006	960 minute	2 year Summer I+0%	960	102	29.350	27.827
3.000	RE01	960 minute	2 year Summer I+0%	960	103	29.859	28.697
4.000	RE02	960 minute	2 year Summer I+0%	960	103	29.902	28.695
1.007	S1007	960 minute	2 year Summer I+0%	960	102	29.905	27.809
5.000	S3000	960 minute	2 year Summer I+0%	960	103	29.950	29.009
5.001	S3001	960 minute	2 year Summer I+0%	960	103	29.916	28.907
5.002	S3002	960 minute	2 year Summer I+0%	960	103	29.887	28.681
6.000	S4000	960 minute	2 year Summer I+0%	960	103	29.850	28.564
1.008	S1008	960 minute	2 year Summer I+0%	960	102	29.874	27.784
7.000	S5000	960 minute	2 year Summer I+0%	960	103	29.836	28.139
1.009	S1009	960 minute	2 year Summer I+0%	960	102	29.874	27.772

SGi Consulting		Page 59																																																																																																																																																																																																															
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<table><tr><th colspan="5">Surcharged Flooded</th><th colspan="5">Total</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th><th>Overflow Act.</th><th>Overflow Vol (m³)</th><th>Overflow Vol (m³)</th><th>Level Exceeded</th></tr><tr><td>1.000</td><td>S1000</td><td>-0.267</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.001</td><td>S1001</td><td>-0.262</td><td>0.000</td><td>0.04</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.002</td><td>S1002</td><td>-0.252</td><td>0.000</td><td>0.06</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.003</td><td>S1003</td><td>-0.248</td><td>0.000</td><td>0.07</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.004</td><td>S1004</td><td>-0.236</td><td>0.000</td><td>0.10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>-1.182</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2.000</td><td>S1200</td><td>-0.213</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.006</td><td>S1006</td><td>-0.223</td><td>0.000</td><td>0.12</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3.000</td><td>RE01</td><td>-0.133</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4.000</td><td>RE02</td><td>-0.135</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.007</td><td>S1007</td><td>-0.206</td><td>0.000</td><td>0.14</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.000</td><td>S3000</td><td>-0.291</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.001</td><td>S3001</td><td>-0.278</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.002</td><td>S3002</td><td>-0.289</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6.000</td><td>S4000</td><td>-0.286</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.008</td><td>S1008</td><td>-0.146</td><td>0.000</td><td>0.14</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7.000</td><td>S5000</td><td>-0.141</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.009</td><td>S1009</td><td>0.052</td><td>0.000</td><td>0.29</td><td></td><td></td><td></td><td></td><td></td></tr></table>										Surcharged Flooded					Total					PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	1.000	S1000	-0.267	0.000	0.03						1.001	S1001	-0.262	0.000	0.04						1.002	S1002	-0.252	0.000	0.06						1.003	S1003	-0.248	0.000	0.07						1.004	S1004	-0.236	0.000	0.10						1.005	S1005 Tank	-1.182	0.000	0.00						2.000	S1200	-0.213	0.000	0.01						1.006	S1006	-0.223	0.000	0.12						3.000	RE01	-0.133	0.000	0.03						4.000	RE02	-0.135	0.000	0.02						1.007	S1007	-0.206	0.000	0.14						5.000	S3000	-0.291	0.000	0.01						5.001	S3001	-0.278	0.000	0.02						5.002	S3002	-0.289	0.000	0.01						6.000	S4000	-0.286	0.000	0.01						1.008	S1008	-0.146	0.000	0.14						7.000	S5000	-0.141	0.000	0.01						1.009	S1009	0.052	0.000	0.29					
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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE			
Designed by sgicivils			
Checked by			
Micro Drainage		Network 2020.1.3	

Summary Wizard of 1440 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 2 year Summer I+0%	1440	112	29.920	29.030
1.001	S1001		1440 minute 2 year Summer I+0%	1440	112	29.921	28.964
1.002	S1002		1440 minute 2 year Summer I+0%	1440	112	29.920	28.881
1.003	S1003		1440 minute 2 year Summer I+0%	1440	112	29.846	28.855
1.004	S1004		1440 minute 2 year Summer I+0%	1440	112	29.850	28.791
1.005	S1005 Tank		1440 minute 2 year Summer I+0%	1440	112	29.350	27.820
2.000	S1200		1440 minute 2 year Summer I+0%	1440	112	29.350	28.584
1.006	S1006		1440 minute 2 year Summer I+0%	1440	112	29.350	27.812
3.000	RE01		1440 minute 2 year Summer I+0%	1440	112	29.859	28.696
4.000	RE02		1440 minute 2 year Summer I+0%	1440	112	29.902	28.693
1.007	S1007		1440 minute 2 year Summer I+0%	1440	112	29.905	27.782
5.000	S3000		1440 minute 2 year Summer I+0%	1440	112	29.950	29.007
5.001	S3001		1440 minute 2 year Summer I+0%	1440	112	29.916	28.902
5.002	S3002		1440 minute 2 year Summer I+0%	1440	112	29.887	28.678
6.000	S4000		1440 minute 2 year Summer I+0%	1440	112	29.850	28.561
1.008	S1008		1440 minute 2 year Summer I+0%	1440	112	29.874	27.701
7.000	S5000		1440 minute 2 year Summer I+0%	1440	112	29.836	28.137
1.009	S1009		1440 minute 2 year Summer I+0%	1440	112	29.874	27.649

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<table><tr><th>PN</th><th>US/MH Name</th><th>Maximum Vol (m³)</th><th>Discharge Vol (m³)</th><th>Maximum Velocity (m/s)</th><th>Pipe Flow (l/s)</th><th>Status</th></tr><tr><td>1.000</td><td>S1000</td><td>0.007</td><td>26.848</td><td>0.4</td><td>1.2</td><td>OK</td></tr><tr><td>1.001</td><td>S1001</td><td>0.075</td><td>38.075</td><td>0.4</td><td>1.7</td><td>OK</td></tr><tr><td>1.002</td><td>S1002</td><td>0.096</td><td>47.838</td><td>0.4</td><td>2.2</td><td>OK</td></tr><tr><td>1.003</td><td>S1003</td><td>0.052</td><td>68.828</td><td>0.5</td><td>3.1</td><td>OK</td></tr><tr><td>1.004</td><td>S1004</td><td>0.132</td><td>92.747</td><td>0.5</td><td>4.2</td><td>OK</td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>0.000</td><td>92.747</td><td>0.1</td><td>4.2</td><td>OK</td></tr><tr><td>2.000</td><td>S1200</td><td>0.001</td><td>19.038</td><td>0.9</td><td>0.9</td><td>OK</td></tr><tr><td>1.006</td><td>S1006</td><td>5.651</td><td>111.785</td><td>0.5</td><td>5.0</td><td>OK</td></tr><tr><td>3.000</td><td>RE01</td><td>0.000</td><td>15.132</td><td>0.8</td><td>0.7</td><td>OK</td></tr><tr><td>4.000</td><td>RE02</td><td>0.000</td><td>12.204</td><td>0.9</td><td>0.6</td><td>OK</td></tr><tr><td>1.007</td><td>S1007</td><td>0.135</td><td>146.443</td><td>0.6</td><td>6.6</td><td>OK</td></tr><tr><td>5.000</td><td>S3000</td><td>0.000</td><td>8.787</td><td>0.2</td><td>0.4</td><td>OK</td></tr><tr><td>5.001</td><td>S3001</td><td>0.014</td><td>19.526</td><td>0.5</td><td>0.9</td><td>OK</td></tr><tr><td>5.002</td><td>S3002</td><td>0.007</td><td>33.193</td><td>0.8</td><td>1.5</td><td>OK</td></tr><tr><td>6.000</td><td>S4000</td><td>0.006</td><td>27.824</td><td>0.7</td><td>1.3</td><td>OK</td></tr><tr><td>1.008</td><td>S1008</td><td>0.274</td><td>219.175</td><td>0.8</td><td>9.9</td><td>OK</td></tr><tr><td>7.000</td><td>S5000</td><td>0.001</td><td>8.787</td><td>0.9</td><td>0.4</td><td>OK</td></tr><tr><td>1.009</td><td>S1009</td><td>0.558</td><td>227.959</td><td>0.9</td><td>10.3</td><td>OK</td></tr></table>										PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status	1.000	S1000	0.007	26.848	0.4	1.2	OK	1.001	S1001	0.075	38.075	0.4	1.7	OK	1.002	S1002	0.096	47.838	0.4	2.2	OK	1.003	S1003	0.052	68.828	0.5	3.1	OK	1.004	S1004	0.132	92.747	0.5	4.2	OK	1.005	S1005 Tank	0.000	92.747	0.1	4.2	OK	2.000	S1200	0.001	19.038	0.9	0.9	OK	1.006	S1006	5.651	111.785	0.5	5.0	OK	3.000	RE01	0.000	15.132	0.8	0.7	OK	4.000	RE02	0.000	12.204	0.9	0.6	OK	1.007	S1007	0.135	146.443	0.6	6.6	OK	5.000	S3000	0.000	8.787	0.2	0.4	OK	5.001	S3001	0.014	19.526	0.5	0.9	OK	5.002	S3002	0.007	33.193	0.8	1.5	OK	6.000	S4000	0.006	27.824	0.7	1.3	OK	1.008	S1008	0.274	219.175	0.8	9.9	OK	7.000	S5000	0.001	8.787	0.9	0.4	OK	1.009	S1009	0.558	227.959	0.9	10.3	OK																																																																	
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SGi Consulting		Page 62
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAIN...	Designed by sgicivils Checked by	
Micro Drainage Network 2020.1.3		

Summary Wizard of 15 minute 5 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

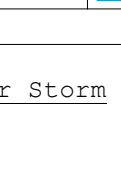
Rainfall Model	FSR	Ratio R	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	5 year Summer I+0%	15	17	29.920	29.103
1.001	S1001	15 minute	5 year Summer I+0%	15	18	29.921	29.048
1.002	S1002	15 minute	5 year Summer I+0%	15	19	29.920	28.994
1.003	S1003	15 minute	5 year Summer I+0%	15	19	29.846	28.975
1.004	S1004	15 minute	5 year Summer I+0%	15	19	29.850	28.925
1.005	S1005 Tank	15 minute	5 year Summer I+0%	15	58	29.350	28.000
2.000	S1200	15 minute	5 year Summer I+0%	15	25	29.350	28.622
1.006	S1006	15 minute	5 year Summer I+0%	15	58	29.350	28.000
3.000	RE01	15 minute	5 year Summer I+0%	15	24	29.859	28.734
4.000	RE02	15 minute	5 year Summer I+0%	15	24	29.902	28.726
1.007	S1007	15 minute	5 year Summer I+0%	15	41	29.905	28.092
5.000	S3000	15 minute	5 year Summer I+0%	15	17	29.950	29.044
5.001	S3001	15 minute	5 year Summer I+0%	15	19	29.916	28.955
5.002	S3002	15 minute	5 year Summer I+0%	15	24	29.887	28.717
6.000	S4000	15 minute	5 year Summer I+0%	15	25	29.850	28.608
1.008	S1008	15 minute	5 year Summer I+0%	15	38	29.874	28.163
7.000	S5000	15 minute	5 year Summer I+0%	15	37	29.836	28.170
1.009	S1009	15 minute	5 year Summer I+0%	15	37	29.874	28.155

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SGi Consulting		Page 64
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 30 minute 5 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

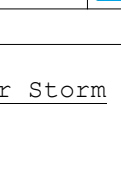
Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	30 minute	5 year Summer I+0%	30	18	29.920	29.100
1.001	S1001	30 minute	5 year Summer I+0%	30	19	29.921	29.045
1.002	S1002	30 minute	5 year Summer I+0%	30	20	29.920	28.992
1.003	S1003	30 minute	5 year Summer I+0%	30	20	29.846	28.973
1.004	S1004	30 minute	5 year Summer I+0%	30	20	29.850	28.924
1.005	S1005 Tank	30 minute	5 year Summer I+0%	30	49	29.350	28.057
2.000	S1200	30 minute	5 year Summer I+0%	30	27	29.350	28.621
1.006	S1006	30 minute	5 year Summer I+0%	30	49	29.350	28.057
3.000	RE01	30 minute	5 year Summer I+0%	30	26	29.859	28.732
4.000	RE02	30 minute	5 year Summer I+0%	30	26	29.902	28.724
1.007	S1007	30 minute	5 year Summer I+0%	30	42	29.905	28.092
5.000	S3000	30 minute	5 year Summer I+0%	30	19	29.950	29.043
5.001	S3001	30 minute	5 year Summer I+0%	30	20	29.916	28.953
5.002	S3002	30 minute	5 year Summer I+0%	30	25	29.887	28.716
6.000	S4000	30 minute	5 year Summer I+0%	30	27	29.850	28.606
1.008	S1008	30 minute	5 year Summer I+0%	30	39	29.874	28.158
7.000	S5000	30 minute	5 year Summer I+0%	30	38	29.836	28.167
1.009	S1009	30 minute	5 year Summer I+0%	30	38	29.874	28.149

SGi Consulting		Page 66
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 60 minute 5 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

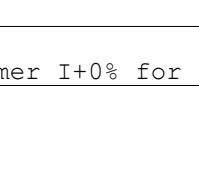
Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	60 minute	5 year Summer I+0%	60	25	29.920	29.088
1.001	S1001	60 minute	5 year Summer I+0%	60	25	29.921	29.031
1.002	S1002	60 minute	5 year Summer I+0%	60	25	29.920	28.974
1.003	S1003	60 minute	5 year Summer I+0%	60	25	29.846	28.954
1.004	S1004	60 minute	5 year Summer I+0%	60	26	29.850	28.903
1.005	S1005 Tank	60 minute	5 year Summer I+0%	60	42	29.350	28.092
2.000	S1200	60 minute	5 year Summer I+0%	60	32	29.350	28.615
1.006	S1006	60 minute	5 year Summer I+0%	60	42	29.350	28.092
3.000	RE01	60 minute	5 year Summer I+0%	60	31	29.859	28.726
4.000	RE02	60 minute	5 year Summer I+0%	60	31	29.902	28.718
1.007	S1007	60 minute	5 year Summer I+0%	60	45	29.905	28.086
5.000	S3000	60 minute	5 year Summer I+0%	60	24	29.950	29.038
5.001	S3001	60 minute	5 year Summer I+0%	60	26	29.916	28.947
5.002	S3002	60 minute	5 year Summer I+0%	60	30	29.887	28.711
6.000	S4000	60 minute	5 year Summer I+0%	60	32	29.850	28.598
1.008	S1008	60 minute	5 year Summer I+0%	60	44	29.874	28.108
7.000	S5000	60 minute	5 year Summer I+0%	60	42	29.836	28.159
1.009	S1009	60 minute	5 year Summer I+0%	60	44	29.874	28.094

SGi Consulting		Page 68
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 120 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	120 minute	5 year Summer I+0%	120	38	29.920	29.071
1.001	S1001	120 minute	5 year Summer I+0%	120	38	29.921	29.013
1.002	S1002	120 minute	5 year Summer I+0%	120	39	29.920	28.950
1.003	S1003	120 minute	5 year Summer I+0%	120	39	29.846	28.928
1.004	S1004	120 minute	5 year Summer I+0%	120	38	29.850	28.874
1.005	S1005 Tank	120 minute	5 year Summer I+0%	120	41	29.350	28.096
2.000	S1200	120 minute	5 year Summer I+0%	120	43	29.350	28.607
1.006	S1006	120 minute	5 year Summer I+0%	120	41	29.350	28.096
3.000	RE01	120 minute	5 year Summer I+0%	120	42	29.859	28.717
4.000	RE02	120 minute	5 year Summer I+0%	120	42	29.902	28.712
1.007	S1007	120 minute	5 year Summer I+0%	120	43	29.905	28.090
5.000	S3000	120 minute	5 year Summer I+0%	120	38	29.950	29.033
5.001	S3001	120 minute	5 year Summer I+0%	120	39	29.916	28.936
5.002	S3002	120 minute	5 year Summer I+0%	120	42	29.887	28.705
6.000	S4000	120 minute	5 year Summer I+0%	120	43	29.850	28.590
1.008	S1008	120 minute	5 year Summer I+0%	120	48	29.874	28.078
7.000	S5000	120 minute	5 year Summer I+0%	120	51	29.836	28.154
1.009	S1009	120 minute	5 year Summer I+0%	120	48	29.874	28.062

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SGi Consulting		Page 70
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...	Designed by sgicivils Checked by	
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Summary Wizard of 180 minute 5 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	1
Number of Online Controls	1	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	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		180 minute 5 year Summer I+0%	180	47	29.920	29.064
1.001	S1001		180 minute 5 year Summer I+0%	180	47	29.921	29.003
1.002	S1002		180 minute 5 year Summer I+0%	180	47	29.920	28.936
1.003	S1003		180 minute 5 year Summer I+0%	180	47	29.846	28.914
1.004	S1004		180 minute 5 year Summer I+0%	180	47	29.850	28.858
1.005	S1005 Tank		180 minute 5 year Summer I+0%	180	45	29.350	28.080
2.000	S1200		180 minute 5 year Summer I+0%	180	50	29.350	28.604
1.006	S1006		180 minute 5 year Summer I+0%	180	45	29.350	28.080
3.000	RE01		180 minute 5 year Summer I+0%	180	48	29.859	28.713
4.000	RE02		180 minute 5 year Summer I+0%	180	48	29.902	28.709
1.007	S1007		180 minute 5 year Summer I+0%	180	49	29.905	28.075
5.000	S3000		180 minute 5 year Summer I+0%	180	47	29.950	29.030
5.001	S3001		180 minute 5 year Summer I+0%	180	47	29.916	28.930
5.002	S3002		180 minute 5 year Summer I+0%	180	49	29.887	28.702
6.000	S4000		180 minute 5 year Summer I+0%	180	50	29.850	28.586
1.008	S1008		180 minute 5 year Summer I+0%	180	52	29.874	28.062
7.000	S5000		180 minute 5 year Summer I+0%	180	57	29.836	28.151
1.009	S1009		180 minute 5 year Summer I+0%	180	52	29.874	28.046

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Page 71



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Summary Wizard of 180 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.236	0.000	0.10						
1.001	S1001	-0.227	0.000	0.13						
1.002	S1002	-0.204	0.000	0.20						
1.003	S1003	-0.196	0.000	0.25						
1.004	S1004	-0.177	0.000	0.35						
1.005	S1005 Tank	-0.931	0.000	0.00						
2.000	S1200	-0.196	0.000	0.04						
1.006	S1006	0.030	0.000	0.24						
3.000	RE01	-0.117	0.000	0.11						
4.000	RE02	-0.121	0.000	0.08						
1.007	S1007	0.060	0.000	0.24						
5.000	S3000	-0.270	0.000	0.02						
5.001	S3001	-0.255	0.000	0.05						
5.002	S3002	-0.268	0.000	0.03						
6.000	S4000	-0.264	0.000	0.03						
1.008	S1008	0.132	0.000	0.20						
7.000	S5000	-0.129	0.000	0.05						
1.009	S1009	0.326	0.000	0.40						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.017	15.881	0.5	5.6	OK
1.001	S1001	0.178	22.522	0.6	7.9	OK
1.002	S1002	0.243	28.297	0.5	9.9	OK
1.003	S1003	0.129	40.713	0.7	14.1	OK
1.004	S1004	0.374	54.862	0.7	18.9	OK
1.005	S1005 Tank	0.000	54.862	0.1	18.9	OK
2.000	S1200	0.007	11.261	1.3	4.0	OK
1.006	S1006	41.428	66.100	0.5	12.6	SURCHARGED
3.000	RE01	0.000	8.951	1.1	3.2	OK
4.000	RE02	0.000	7.219	1.1	2.6	OK
1.007	S1007	1.108	86.602	0.6	13.8	SURCHARGED
5.000	S3000	0.007	5.198	0.6	1.8	OK
5.001	S3001	0.045	11.550	0.6	4.0	OK
5.002	S3002	0.053	19.635	1.8	6.8	OK
6.000	S4000	0.035	16.459	1.2	5.8	OK
1.008	S1008	3.158	129.625	0.8	16.2	SURCHARGED
7.000	S5000	0.004	5.198	1.2	1.8	OK
1.009	S1009	2.199	134.812	1.0	16.8	SURCHARGED

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Micro Drainage Network 2020.1.3		

Summary Wizard of 240 minute 5 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	1
Number of Online Controls	1	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	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		240 minute 5 year Summer I+0%	240	53	29.920	29.058
1.001	S1001		240 minute 5 year Summer I+0%	240	53	29.921	28.997
1.002	S1002		240 minute 5 year Summer I+0%	240	53	29.920	28.927
1.003	S1003		240 minute 5 year Summer I+0%	240	53	29.846	28.904
1.004	S1004		240 minute 5 year Summer I+0%	240	53	29.850	28.847
1.005	S1005 Tank		240 minute 5 year Summer I+0%	240	48	29.350	28.058
2.000	S1200		240 minute 5 year Summer I+0%	240	54	29.350	28.602
1.006	S1006		240 minute 5 year Summer I+0%	240	48	29.350	28.058
3.000	RE01		240 minute 5 year Summer I+0%	240	53	29.859	28.711
4.000	RE02		240 minute 5 year Summer I+0%	240	53	29.902	28.706
1.007	S1007		240 minute 5 year Summer I+0%	240	54	29.905	28.054
5.000	S3000		240 minute 5 year Summer I+0%	240	53	29.950	29.026
5.001	S3001		240 minute 5 year Summer I+0%	240	53	29.916	28.926
5.002	S3002		240 minute 5 year Summer I+0%	240	53	29.887	28.701
6.000	S4000		240 minute 5 year Summer I+0%	240	54	29.850	28.583
1.008	S1008		240 minute 5 year Summer I+0%	240	57	29.874	28.044
7.000	S5000		240 minute 5 year Summer I+0%	240	59	29.836	28.149
1.009	S1009		240 minute 5 year Summer I+0%	240	57	29.874	28.029

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Page 73



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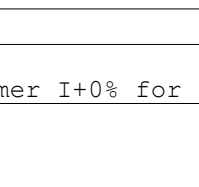
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Summary Wizard of 240 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.242	0.000		0.08						
1.001	S1001	-0.233	0.000		0.11						
1.002	S1002	-0.213	0.000		0.17						
1.003	S1003	-0.206	0.000		0.21						
1.004	S1004	-0.188	0.000		0.30						
1.005	S1005 Tank	-0.953	0.000		0.00						
2.000	S1200	-0.198	0.000		0.03						
1.006	S1006	0.008	0.000		0.23						
3.000	RE01	-0.119	0.000		0.09						
4.000	RE02	-0.124	0.000		0.07						
1.007	S1007	0.039	0.000		0.23						
5.000	S3000	-0.274	0.000		0.02						
5.001	S3001	-0.259	0.000		0.05						
5.002	S3002	-0.269	0.000		0.02						
6.000	S4000	-0.267	0.000		0.03						
1.008	S1008	0.114	0.000		0.19						
7.000	S5000	-0.131	0.000		0.04						
1.009	S1009	0.309	0.000		0.39						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.015	17.532	0.5	4.7	OK
1.001	S1001	0.162	24.863	0.6	6.6	OK
1.002	S1002	0.220	31.238	0.5	8.3	OK
1.003	S1003	0.116	44.945	0.6	11.9	OK
1.004	S1004	0.304	60.564	0.7	16.0	OK
1.005	S1005 Tank	0.000	60.564	0.1	15.9	OK
2.000	S1200	0.006	12.432	1.3	3.3	OK
1.006	S1006	38.381	72.994	0.5	11.8	SURCHARGED
3.000	RE01	0.000	9.881	1.0	2.7	OK
4.000	RE02	0.000	7.969	1.1	2.1	OK
1.007	S1007	1.053	95.626	0.6	13.0	SURCHARGED
5.000	S3000	0.006	5.738	0.6	1.5	OK
5.001	S3001	0.041	12.750	0.6	3.4	OK
5.002	S3002	0.049	21.676	1.8	5.7	OK
6.000	S4000	0.032	18.169	1.2	4.9	OK
1.008	S1008	3.072	143.122	0.8	16.1	SURCHARGED
7.000	S5000	0.004	5.738	1.2	1.5	OK
1.009	S1009	2.163	148.856	1.0	16.5	SURCHARGED

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SGi Consulting		Page 74
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 360 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

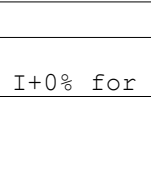
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	360 minute	5 year Summer I+0%	360	66	29.920	29.050
1.001	S1001	360 minute	5 year Summer I+0%	360	66	29.921	28.990
1.002	S1002	360 minute	5 year Summer I+0%	360	66	29.920	28.915
1.003	S1003	360 minute	5 year Summer I+0%	360	66	29.846	28.892
1.004	S1004	360 minute	5 year Summer I+0%	360	66	29.850	28.833
1.005	S1005 Tank	360 minute	5 year Summer I+0%	360	52	29.350	28.014
2.000	S1200	360 minute	5 year Summer I+0%	360	66	29.350	28.599
1.006	S1006	360 minute	5 year Summer I+0%	360	52	29.350	28.014
3.000	RE01	360 minute	5 year Summer I+0%	360	66	29.859	28.707
4.000	RE02	360 minute	5 year Summer I+0%	360	66	29.902	28.702
1.007	S1007	360 minute	5 year Summer I+0%	360	59	29.905	28.008
5.000	S3000	360 minute	5 year Summer I+0%	360	66	29.950	29.020
5.001	S3001	360 minute	5 year Summer I+0%	360	67	29.916	28.922
5.002	S3002	360 minute	5 year Summer I+0%	360	66	29.887	28.695
6.000	S4000	360 minute	5 year Summer I+0%	360	66	29.850	28.581
1.008	S1008	360 minute	5 year Summer I+0%	360	60	29.874	27.982
7.000	S5000	360 minute	5 year Summer I+0%	360	68	29.836	28.147
1.009	S1009	360 minute	5 year Summer I+0%	360	61	29.874	27.967

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SGi Consulting		Page 76
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Summary Wizard of 480 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 5 year Summer I+0%	480	74	29.920	29.045
1.001	S1001		480 minute 5 year Summer I+0%	480	74	29.921	28.983
1.002	S1002		480 minute 5 year Summer I+0%	480	74	29.920	28.908
1.003	S1003		480 minute 5 year Summer I+0%	480	74	29.846	28.884
1.004	S1004		480 minute 5 year Summer I+0%	480	74	29.850	28.825
1.005	S1005 Tank		480 minute 5 year Summer I+0%	480	66	29.350	27.971
2.000	S1200		480 minute 5 year Summer I+0%	480	74	29.350	28.598
1.006	S1006		480 minute 5 year Summer I+0%	480	66	29.350	27.971
3.000	RE01		480 minute 5 year Summer I+0%	480	74	29.859	28.704
4.000	RE02		480 minute 5 year Summer I+0%	480	74	29.902	28.700
1.007	S1007		480 minute 5 year Summer I+0%	480	69	29.905	27.967
5.000	S3000		480 minute 5 year Summer I+0%	480	74	29.950	29.017
5.001	S3001		480 minute 5 year Summer I+0%	480	74	29.916	28.919
5.002	S3002		480 minute 5 year Summer I+0%	480	74	29.887	28.691
6.000	S4000		480 minute 5 year Summer I+0%	480	74	29.850	28.576
1.008	S1008		480 minute 5 year Summer I+0%	480	70	29.874	27.953
7.000	S5000		480 minute 5 year Summer I+0%	480	74	29.836	28.146
1.009	S1009		480 minute 5 year Summer I+0%	480	70	29.874	27.938

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Page 78



Summary Wizard of 600 minute 5 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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

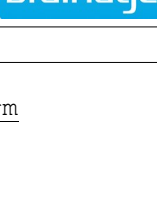
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years) 1, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	600 minute	5 year Summer I+0%	600	79	29.920	29.041
1.001	S1001	600 minute	5 year Summer I+0%	600	79	29.921	28.979
1.002	S1002	600 minute	5 year Summer I+0%	600	79	29.920	28.903
1.003	S1003	600 minute	5 year Summer I+0%	600	79	29.846	28.878
1.004	S1004	600 minute	5 year Summer I+0%	600	79	29.850	28.817
1.005	S1005 Tank	600 minute	5 year Summer I+0%	600	70	29.350	27.938
2.000	S1200	600 minute	5 year Summer I+0%	600	79	29.350	28.595
1.006	S1006	600 minute	5 year Summer I+0%	600	70	29.350	27.938
3.000	RE01	600 minute	5 year Summer I+0%	600	79	29.859	28.702
4.000	RE02	600 minute	5 year Summer I+0%	600	79	29.902	28.699
1.007	S1007	600 minute	5 year Summer I+0%	600	77	29.905	27.933
5.000	S3000	600 minute	5 year Summer I+0%	600	79	29.950	29.014
5.001	S3001	600 minute	5 year Summer I+0%	600	79	29.916	28.917
5.002	S3002	600 minute	5 year Summer I+0%	600	79	29.887	28.688
6.000	S4000	600 minute	5 year Summer I+0%	600	79	29.850	28.573
1.008	S1008	600 minute	5 year Summer I+0%	600	77	29.874	27.923
7.000	S5000	600 minute	5 year Summer I+0%	600	79	29.836	28.145
1.009	S1009	600 minute	5 year Summer I+0%	600	77	29.874	27.890

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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 720 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

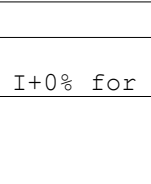
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		720 minute 5 year Summer I+0%	720	87	29.920	29.039
1.001	S1001		720 minute 5 year Summer I+0%	720	87	29.921	28.975
1.002	S1002		720 minute 5 year Summer I+0%	720	87	29.920	28.900
1.003	S1003		720 minute 5 year Summer I+0%	720	87	29.846	28.874
1.004	S1004		720 minute 5 year Summer I+0%	720	87	29.850	28.812
1.005	S1005 Tank		720 minute 5 year Summer I+0%	720	83	29.350	27.907
2.000	S1200		720 minute 5 year Summer I+0%	720	87	29.350	28.593
1.006	S1006		720 minute 5 year Summer I+0%	720	83	29.350	27.907
3.000	RE01		720 minute 5 year Summer I+0%	720	87	29.859	28.701
4.000	RE02		720 minute 5 year Summer I+0%	720	87	29.902	28.698
1.007	S1007		720 minute 5 year Summer I+0%	720	85	29.905	27.903
5.000	S3000		720 minute 5 year Summer I+0%	720	87	29.950	29.013
5.001	S3001		720 minute 5 year Summer I+0%	720	87	29.916	28.916
5.002	S3002		720 minute 5 year Summer I+0%	720	87	29.887	28.686
6.000	S4000		720 minute 5 year Summer I+0%	720	87	29.850	28.570
1.008	S1008		720 minute 5 year Summer I+0%	720	85	29.874	27.893
7.000	S5000		720 minute 5 year Summer I+0%	720	87	29.836	28.144
1.009	S1009		720 minute 5 year Summer I+0%	720	85	29.874	27.871

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SGi Consulting		Page 82
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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 960 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	960 minute	5 year Summer I+0%	960	96	29.920	29.036
1.001	S1001	960 minute	5 year Summer I+0%	960	96	29.921	28.971
1.002	S1002	960 minute	5 year Summer I+0%	960	96	29.920	28.893
1.003	S1003	960 minute	5 year Summer I+0%	960	96	29.846	28.869
1.004	S1004	960 minute	5 year Summer I+0%	960	96	29.850	28.805
1.005	S1005 Tank	960 minute	5 year Summer I+0%	960	95	29.350	27.864
2.000	S1200	960 minute	5 year Summer I+0%	960	96	29.350	28.589
1.006	S1006	960 minute	5 year Summer I+0%	960	95	29.350	27.864
3.000	RE01	960 minute	5 year Summer I+0%	960	96	29.859	28.699
4.000	RE02	960 minute	5 year Summer I+0%	960	96	29.902	28.696
1.007	S1007	960 minute	5 year Summer I+0%	960	95	29.905	27.859
5.000	S3000	960 minute	5 year Summer I+0%	960	96	29.950	29.010
5.001	S3001	960 minute	5 year Summer I+0%	960	96	29.916	28.912
5.002	S3002	960 minute	5 year Summer I+0%	960	96	29.887	28.683
6.000	S4000	960 minute	5 year Summer I+0%	960	96	29.850	28.567
1.008	S1008	960 minute	5 year Summer I+0%	960	95	29.874	27.849
7.000	S5000	960 minute	5 year Summer I+0%	960	96	29.836	28.141
1.009	S1009	960 minute	5 year Summer I+0%	960	95	29.874	27.836

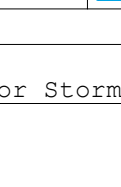
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SGi Consulting		Page 83
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
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Summary Wizard of 960 minute 5 year Summer I+0% for Storm

		Surcharged	Flooded	Total					
	US/MH	Depth	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level
PN	Name	(m)	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol (m³)	Exceeded
1.000	S1000	-0.264	0.000	0.03					
1.001	S1001	-0.259	0.000	0.05					
1.002	S1002	-0.247	0.000	0.07					
1.003	S1003	-0.241	0.000	0.09					
1.004	S1004	-0.230	0.000	0.12					
1.005	S1005 Tank	-1.147	0.000	0.00					
2.000	S1200	-0.211	0.000	0.01					
1.006	S1006	-0.186	0.000	0.14					
3.000	RE01	-0.131	0.000	0.04					
4.000	RE02	-0.134	0.000	0.03					
1.007	S1007	-0.156	0.000	0.16					
5.000	S3000	-0.290	0.000	0.01					
5.001	S3001	-0.273	0.000	0.02					
5.002	S3002	-0.287	0.000	0.01					
6.000	S4000	-0.283	0.000	0.01					
1.008	S1008	-0.081	0.000	0.16					
7.000	S5000	-0.139	0.000	0.02					
1.009	S1009	0.116	0.000	0.32					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.009	27.969	0.4	1.9	OK
1.001	S1001	0.095	39.665	0.5	2.7	OK
1.002	S1002	0.129	49.836	0.4	3.4	OK
1.003	S1003	0.070	71.703	0.5	4.9	OK
1.004	S1004	0.168	96.621	0.5	6.6	OK
1.005	S1005 Tank	0.000	96.621	0.1	6.6	OK
2.000	S1200	0.003	19.833	1.3	1.3	OK
1.006	S1006	11.066	116.454	0.5	7.2	OK
3.000	RE01	0.000	15.764	0.8	1.1	OK
4.000	RE02	0.000	12.713	0.9	0.9	OK
1.007	S1007	0.352	152.559	0.6	8.9	OK
5.000	S3000	0.002	9.154	0.3	0.6	OK
5.001	S3001	0.024	20.341	0.5	1.4	OK
5.002	S3002	0.016	34.580	1.3	2.4	OK
6.000	S4000	0.013	28.986	1.1	2.0	OK
1.008	S1008	1.518	228.330	0.8	12.9	OK
7.000	S5000	0.002	9.154	1.1	0.6	OK
1.009	S1009	1.638	237.481	1.0	13.4	SURCHARGED

SGi Consulting		Page 84
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 1440 minute 5 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

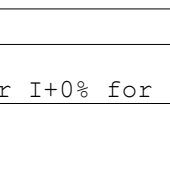
Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 5 year Summer I+0%	1440	105	29.920	29.032
1.001	S1001		1440 minute 5 year Summer I+0%	1440	105	29.921	28.966
1.002	S1002		1440 minute 5 year Summer I+0%	1440	105	29.920	28.885
1.003	S1003		1440 minute 5 year Summer I+0%	1440	105	29.846	28.860
1.004	S1004		1440 minute 5 year Summer I+0%	1440	105	29.850	28.797
1.005	S1005 Tank		1440 minute 5 year Summer I+0%	1440	105	29.350	27.825
2.000	S1200		1440 minute 5 year Summer I+0%	1440	105	29.350	28.586
1.006	S1006		1440 minute 5 year Summer I+0%	1440	105	29.350	27.821
3.000	RE01		1440 minute 5 year Summer I+0%	1440	105	29.859	28.697
4.000	RE02		1440 minute 5 year Summer I+0%	1440	105	29.902	28.695
1.007	S1007		1440 minute 5 year Summer I+0%	1440	105	29.905	27.798
5.000	S3000		1440 minute 5 year Summer I+0%	1440	105	29.950	29.008
5.001	S3001		1440 minute 5 year Summer I+0%	1440	105	29.916	28.905
5.002	S3002		1440 minute 5 year Summer I+0%	1440	105	29.887	28.680
6.000	S4000		1440 minute 5 year Summer I+0%	1440	105	29.850	28.563
1.008	S1008		1440 minute 5 year Summer I+0%	1440	105	29.874	27.761
7.000	S5000		1440 minute 5 year Summer I+0%	1440	105	29.836	28.139
1.009	S1009		1440 minute 5 year Summer I+0%	1440	105	29.874	27.750

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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	30 year Summer I+0%	15	11	29.920	29.226
1.001	S1001	15 minute	30 year Summer I+0%	15	12	29.921	29.202
1.002	S1002	15 minute	30 year Summer I+0%	15	12	29.920	29.163
1.003	S1003	15 minute	30 year Summer I+0%	15	12	29.846	29.094
1.004	S1004	15 minute	30 year Summer I+0%	15	13	29.850	29.036
1.005	S1005 Tank	15 minute	30 year Summer I+0%	15	38	29.350	28.144
2.000	S1200	15 minute	30 year Summer I+0%	15	20	29.350	28.632
1.006	S1006	15 minute	30 year Summer I+0%	15	38	29.350	28.144
3.000	RE01	15 minute	30 year Summer I+0%	15	18	29.859	28.746
4.000	RE02	15 minute	30 year Summer I+0%	15	19	29.902	28.735
1.007	S1007	15 minute	30 year Summer I+0%	15	36	29.905	28.176
5.000	S3000	15 minute	30 year Summer I+0%	15	12	29.950	29.055
5.001	S3001	15 minute	30 year Summer I+0%	15	13	29.916	28.978
5.002	S3002	15 minute	30 year Summer I+0%	15	18	29.887	28.735
6.000	S4000	15 minute	30 year Summer I+0%	15	19	29.850	28.620
1.008	S1008	15 minute	30 year Summer I+0%	15	27	29.874	28.304
7.000	S5000	15 minute	30 year Summer I+0%	15	24	29.836	28.312
1.009	S1009	15 minute	30 year Summer I+0%	15	25	29.874	28.293

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Page 87

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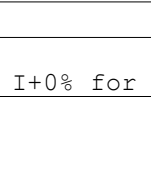
Micro Drainage

Summary Wizard of 15 minute 30 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.074	0.000		0.34						
1.001	S1001	-0.028	0.000		0.41						
1.002	S1002	0.023	0.000		0.74						
1.003	S1003	-0.016	0.000		0.69						
1.004	S1004	0.001	0.000		1.01						
1.005	S1005 Tank	-0.867	0.000		0.01						
2.000	S1200	-0.168	0.000		0.14						
1.006	S1006	0.094	0.000		0.32						
3.000	RE01	-0.084	0.000		0.40						
4.000	RE02	-0.095	0.000		0.29						
1.007	S1007	0.161	0.000		0.30						
5.000	S3000	-0.245	0.000		0.08						
5.001	S3001	-0.207	0.000		0.20						
5.002	S3002	-0.235	0.000		0.10						
6.000	S4000	-0.230	0.000		0.12						
1.008	S1008	0.374	0.000		0.27						
7.000	S5000	0.032	0.000		0.19						
1.009	S1009	0.573	0.000		0.47						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status		
1.000	S1000	0.063	8.778	0.7	19.3	OK		
1.001	S1001	1.228	12.448	0.7	24.3	OK		
1.002	S1002	1.720	15.640	0.7	36.7	SURCHARGED		
1.003	S1003	0.571	22.504	0.9	39.3	OK		
1.004	S1004	1.433	30.323	0.9	53.9	SURCHARGED		
1.005	S1005 Tank	0.000	30.323	0.2	53.3	OK		
2.000	S1200	0.015	6.226	1.8	14.2	OK		
1.006	S1006	50.440	20.255	0.3	17.0	SURCHARGED		
3.000	RE01	0.000	4.947	1.5	11.2	OK		
4.000	RE02	0.000	3.991	1.6	9.1	OK		
1.007	S1007	1.354	30.723	0.5	17.3	SURCHARGED		
5.000	S3000	0.014	2.873	0.7	6.6	OK		
5.001	S3001	0.099	6.385	0.8	14.9	OK		
5.002	S3002	0.115	10.853	2.4	26.1	OK		
6.000	S4000	0.073	9.098	1.7	20.8	OK		
1.008	S1008	4.261	52.497	0.9	22.1	SURCHARGED		
7.000	S5000	0.050	2.873	1.6	7.5	SURCHARGED		
1.009	S1009	2.674	53.235	1.1	19.5	SURCHARGED		

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SGi Consulting		Page 88
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	30 minute	30 year Summer I+0%	30	13	29.920	29.183
1.001	S1001	30 minute	30 year Summer I+0%	30	13	29.921	29.164
1.002	S1002	30 minute	30 year Summer I+0%	30	13	29.920	29.126
1.003	S1003	30 minute	30 year Summer I+0%	30	13	29.846	29.085
1.004	S1004	30 minute	30 year Summer I+0%	30	14	29.850	29.029
1.005	S1005 Tank	30 minute	30 year Summer I+0%	30	32	29.350	28.250
2.000	S1200	30 minute	30 year Summer I+0%	30	21	29.350	28.630
1.006	S1006	30 minute	30 year Summer I+0%	30	32	29.350	28.249
3.000	RE01	30 minute	30 year Summer I+0%	30	19	29.859	28.744
4.000	RE02	30 minute	30 year Summer I+0%	30	20	29.902	28.734
1.007	S1007	30 minute	30 year Summer I+0%	30	32	29.905	28.244
5.000	S3000	30 minute	30 year Summer I+0%	30	13	29.950	29.054
5.001	S3001	30 minute	30 year Summer I+0%	30	14	29.916	28.975
5.002	S3002	30 minute	30 year Summer I+0%	30	19	29.887	28.732
6.000	S4000	30 minute	30 year Summer I+0%	30	20	29.850	28.618
1.008	S1008	30 minute	30 year Summer I+0%	30	33	29.874	28.251
7.000	S5000	30 minute	30 year Summer I+0%	30	32	29.836	28.261
1.009	S1009	30 minute	30 year Summer I+0%	30	33	29.874	28.244

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Page 89

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

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.117	0.000		0.33					
1.001	S1001	-0.066	0.000		0.42					
1.002	S1002	-0.014	0.000		0.71					
1.003	S1003	-0.025	0.000		0.74					
1.004	S1004	-0.006	0.000		1.00					
1.005	S1005 Tank	-0.761	0.000		0.01					
2.000	S1200	-0.170	0.000		0.14					
1.006	S1006	0.199	0.000		0.33					
3.000	RE01	-0.086	0.000		0.38					
4.000	RE02	-0.096	0.000		0.28					
1.007	S1007	0.229	0.000		0.31					
5.000	S3000	-0.246	0.000		0.07					
5.001	S3001	-0.210	0.000		0.19					
5.002	S3002	-0.238	0.000		0.09					
6.000	S4000	-0.232	0.000		0.12					
1.008	S1008	0.321	0.000		0.22					
7.000	S5000	-0.019	0.000		0.17					
1.009	S1009	0.524	0.000		0.46					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.050	12.122	0.7	18.7	OK
1.001	S1001	1.020	17.191	0.7	24.4	OK
1.002	S1002	1.551	21.599	0.6	35.1	OK
1.003	S1003	0.551	31.077	0.8	42.4	OK
1.004	S1004	1.393	41.876	0.9	53.3	OK
1.005	S1005 Tank	0.000	41.876	0.2	53.2	OK
2.000	S1200	0.014	8.596	1.8	13.6	OK
1.006	S1006	65.306	11.327	0.2	17.5	SURCHARGED
3.000	RE01	0.000	6.832	1.5	10.8	OK
4.000	RE02	0.000	5.510	1.5	8.7	OK
1.007	S1007	1.509	25.417	0.5	17.8	SURCHARGED
5.000	S3000	0.014	3.967	0.7	6.3	OK
5.001	S3001	0.096	8.816	0.8	14.2	OK
5.002	S3002	0.110	14.986	2.3	24.2	OK
6.000	S4000	0.071	12.563	1.7	19.9	OK
1.008	S1008	4.020	54.973	0.8	18.5	SURCHARGED
7.000	S5000	0.036	3.967	1.5	6.5	OK
1.009	S1009	2.583	56.321	1.1	19.1	SURCHARGED

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File SW NETWORK 1 & 2 DRAINAGE

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Micro Drainage

Network 2020.1.3

Page 90



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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

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

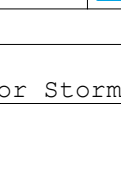
Return Period(s) (years) 1, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		60 minute 30 year Summer I+0%	60	16	29.920	29.115
1.001	S1001		60 minute 30 year Summer I+0%	60	17	29.921	29.069
1.002	S1002		60 minute 30 year Summer I+0%	60	18	29.920	29.026
1.003	S1003		60 minute 30 year Summer I+0%	60	18	29.846	29.010
1.004	S1004		60 minute 30 year Summer I+0%	60	18	29.850	28.965
1.005	S1005 Tank		60 minute 30 year Summer I+0%	60	27	29.350	28.321
2.000	S1200		60 minute 30 year Summer I+0%	60	24	29.350	28.624
1.006	S1006		60 minute 30 year Summer I+0%	60	27	29.350	28.320
3.000	RE01		60 minute 30 year Summer I+0%	60	23	29.859	28.736
4.000	RE02		60 minute 30 year Summer I+0%	60	23	29.902	28.728
1.007	S1007		60 minute 30 year Summer I+0%	60	27	29.905	28.313
5.000	S3000		60 minute 30 year Summer I+0%	60	16	29.950	29.047
5.001	S3001		60 minute 30 year Summer I+0%	60	17	29.916	28.963
5.002	S3002		60 minute 30 year Summer I+0%	60	22	29.887	28.724
6.000	S4000		60 minute 30 year Summer I+0%	60	24	29.850	28.611
1.008	S1008		60 minute 30 year Summer I+0%	60	28	29.874	28.299
7.000	S5000		60 minute 30 year Summer I+0%	60	29	29.836	28.282
1.009	S1009		60 minute 30 year Summer I+0%	60	28	29.874	28.280

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<u>Summary Wizard of 60 minute 30 year Summer I+0% for Storm</u>									
Surcharged Flooded					Total				
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
1.000	S1000	-0.185	0.000	0.27					
1.001	S1001	-0.161	0.000	0.36					
1.002	S1002	-0.114	0.000	0.53					
1.003	S1003	-0.100	0.000	0.65					
1.004	S1004	-0.070	0.000	0.94					
1.005	S1005 Tank	-0.690	0.000	0.01					
2.000	S1200	-0.176	0.000	0.11					
1.006	S1006	0.270	0.000	0.34					
3.000	RE01	-0.094	0.000	0.30					
4.000	RE02	-0.102	0.000	0.22					
1.007	S1007	0.298	0.000	0.32					
5.000	S3000	-0.253	0.000	0.06					
5.001	S3001	-0.222	0.000	0.15					
5.002	S3002	-0.246	0.000	0.07					
6.000	S4000	-0.239	0.000	0.09					
1.008	S1008	0.369	0.000	0.23					
7.000	S5000	0.002	0.000	0.13					
1.009	S1009	0.560	0.000	0.47					
PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.031	16.081	0.6	15.1	OK			
1.001	S1001	0.466	22.805	0.7	21.0	OK			
1.002	S1002	0.850	28.653	0.6	26.3	OK			
1.003	S1003	0.374	41.225	0.8	37.3	OK			
1.004	S1004	1.025	55.552	0.9	49.9	OK			
1.005	S1005 Tank	0.000	55.552	0.2	49.2	OK			
2.000	S1200	0.012	11.403	1.7	10.8	OK			
1.006	S1006	75.220	47.868	0.4	18.0	SURCHARGED			
3.000	RE01	0.000	9.064	1.4	8.5	OK			
4.000	RE02	0.000	7.310	1.4	6.9	OK			
1.007	S1007	1.669	67.680	0.6	18.3	SURCHARGED			
5.000	S3000	0.012	5.263	0.7	5.0	OK			
5.001	S3001	0.082	11.695	0.8	11.1	OK			
5.002	S3002	0.094	19.882	2.2	18.9	OK			
6.000	S4000	0.064	16.666	1.5	15.7	OK			
1.008	S1008	4.238	109.026	0.8	19.2	SURCHARGED			
7.000	S5000	0.042	5.263	1.5	4.9	SURCHARGED			
1.009	S1009	2.650	112.090	1.1	19.9	SURCHARGED			
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Summary Wizard of 120 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

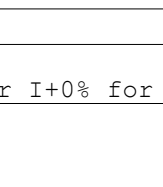
Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		120 minute 30 year Summer I+0%	120	21	29.920	29.091
1.001	S1001		120 minute 30 year Summer I+0%	120	23	29.921	29.038
1.002	S1002		120 minute 30 year Summer I+0%	120	23	29.920	28.984
1.003	S1003		120 minute 30 year Summer I+0%	120	23	29.846	28.966
1.004	S1004		120 minute 30 year Summer I+0%	120	23	29.850	28.917
1.005	S1005 Tank		120 minute 30 year Summer I+0%	120	24	29.350	28.349
2.000	S1200		120 minute 30 year Summer I+0%	120	30	29.350	28.616
1.006	S1006		120 minute 30 year Summer I+0%	120	24	29.350	28.348
3.000	RE01		120 minute 30 year Summer I+0%	120	29	29.859	28.727
4.000	RE02		120 minute 30 year Summer I+0%	120	29	29.902	28.719
1.007	S1007		120 minute 30 year Summer I+0%	120	24	29.905	28.342
5.000	S3000		120 minute 30 year Summer I+0%	120	22	29.950	29.039
5.001	S3001		120 minute 30 year Summer I+0%	120	23	29.916	28.950
5.002	S3002		120 minute 30 year Summer I+0%	120	28	29.887	28.714
6.000	S4000		120 minute 30 year Summer I+0%	120	30	29.850	28.600
1.008	S1008		120 minute 30 year Summer I+0%	120	24	29.874	28.327
7.000	S5000		120 minute 30 year Summer I+0%	120	25	29.836	28.310
1.009	S1009		120 minute 30 year Summer I+0%	120	24	29.874	28.308

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
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Summary Wizard of 240 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		240 minute 30 year Summer I+0%	240	39	29.920	29.071
1.001	S1001		240 minute 30 year Summer I+0%	240	39	29.921	29.013
1.002	S1002		240 minute 30 year Summer I+0%	240	37	29.920	28.950
1.003	S1003		240 minute 30 year Summer I+0%	240	36	29.846	28.929
1.004	S1004		240 minute 30 year Summer I+0%	240	36	29.850	28.875
1.005	S1005 Tank		240 minute 30 year Summer I+0%	240	29	29.350	28.304
2.000	S1200		240 minute 30 year Summer I+0%	240	44	29.350	28.607
1.006	S1006		240 minute 30 year Summer I+0%	240	29	29.350	28.304
3.000	RE01		240 minute 30 year Summer I+0%	240	43	29.859	28.717
4.000	RE02		240 minute 30 year Summer I+0%	240	43	29.902	28.712
1.007	S1007		240 minute 30 year Summer I+0%	240	29	29.905	28.297
5.000	S3000		240 minute 30 year Summer I+0%	240	39	29.950	29.033
5.001	S3001		240 minute 30 year Summer I+0%	240	38	29.916	28.936
5.002	S3002		240 minute 30 year Summer I+0%	240	41	29.887	28.706
6.000	S4000		240 minute 30 year Summer I+0%	240	44	29.850	28.590
1.008	S1008		240 minute 30 year Summer I+0%	240	30	29.874	28.283
7.000	S5000		240 minute 30 year Summer I+0%	240	31	29.836	28.267
1.009	S1009		240 minute 30 year Summer I+0%	240	31	29.874	28.264

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Page 97

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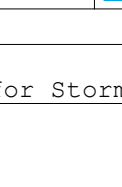
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Summary Wizard of 240 minute 30 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	S1000	-0.229	0.000	0.12					
1.001	S1001	-0.217	0.000	0.17					
1.002	S1002	-0.190	0.000	0.25					
1.003	S1003	-0.181	0.000	0.31					
1.004	S1004	-0.160	0.000	0.45					
1.005	S1005 Tank	-0.707	0.000	0.01					
2.000	S1200	-0.193	0.000	0.05					
1.006	S1006	0.254	0.000	0.27					
3.000	RE01	-0.113	0.000	0.14					
4.000	RE02	-0.118	0.000	0.10					
1.007	S1007	0.282	0.000	0.26					
5.000	S3000	-0.267	0.000	0.03					
5.001	S3001	-0.249	0.000	0.07					
5.002	S3002	-0.264	0.000	0.03					
6.000	S4000	-0.260	0.000	0.04					
1.008	S1008	0.353	0.000	0.23					
7.000	S5000	-0.013	0.000	0.06					
1.009	S1009	0.544	0.000	0.47					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.019	25.863	0.5	7.0	OK
1.001	S1001	0.203	36.678	0.6	9.8	OK
1.002	S1002	0.304	46.083	0.5	12.3	OK
1.003	S1003	0.167	66.303	0.7	17.7	OK
1.004	S1004	0.479	89.345	0.7	23.8	OK
1.005	S1005 Tank	0.000	89.345	0.1	23.7	OK
2.000	S1200	0.008	18.339	1.4	4.9	OK
1.006	S1006	72.934	107.678	0.5	14.0	SURCHARGED
3.000	RE01	0.000	14.577	1.2	3.9	OK
4.000	RE02	0.000	11.756	1.2	3.2	OK
1.007	S1007	1.632	141.065	0.6	15.2	SURCHARGED
5.000	S3000	0.008	8.464	0.6	2.3	OK
5.001	S3001	0.052	18.810	0.6	5.1	OK
5.002	S3002	0.059	31.976	1.8	8.6	OK
6.000	S4000	0.039	26.804	1.3	7.2	OK
1.008	S1008	4.166	211.131	0.8	19.0	SURCHARGED
7.000	S5000	0.037	8.464	1.3	2.3	OK
1.009	S1009	2.621	219.590	1.1	19.7	SURCHARGED

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SGi Consulting		Page 98	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
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Summary Wizard of 360 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		360 minute 30 year Summer I+0%	360	49	29.920	29.062
1.001	S1001		360 minute 30 year Summer I+0%	360	49	29.921	29.001
1.002	S1002		360 minute 30 year Summer I+0%	360	49	29.920	28.934
1.003	S1003		360 minute 30 year Summer I+0%	360	49	29.846	28.912
1.004	S1004		360 minute 30 year Summer I+0%	360	49	29.850	28.856
1.005	S1005 Tank		360 minute 30 year Summer I+0%	360	34	29.350	28.244
2.000	S1200		360 minute 30 year Summer I+0%	360	52	29.350	28.603
1.006	S1006		360 minute 30 year Summer I+0%	360	34	29.350	28.244
3.000	RE01		360 minute 30 year Summer I+0%	360	50	29.859	28.713
4.000	RE02		360 minute 30 year Summer I+0%	360	50	29.902	28.708
1.007	S1007		360 minute 30 year Summer I+0%	360	34	29.905	28.238
5.000	S3000		360 minute 30 year Summer I+0%	360	49	29.950	29.029
5.001	S3001		360 minute 30 year Summer I+0%	360	49	29.916	28.929
5.002	S3002		360 minute 30 year Summer I+0%	360	50	29.887	28.702
6.000	S4000		360 minute 30 year Summer I+0%	360	52	29.850	28.585
1.008	S1008		360 minute 30 year Summer I+0%	360	36	29.874	28.224
7.000	S5000		360 minute 30 year Summer I+0%	360	36	29.836	28.208
1.009	S1009		360 minute 30 year Summer I+0%	360	36	29.874	28.206

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File SW NETWORK 1 & 2 DRAINAGE.dwg

Micro Drainage

Page 99



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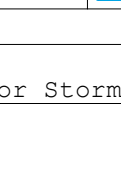
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Summary Wizard of 360 minute 30 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Total			Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.238	0.000	0.09					
1.001	S1001	-0.229	0.000	0.13					
1.002	S1002	-0.206	0.000	0.19					
1.003	S1003	-0.198	0.000	0.24					
1.004	S1004	-0.179	0.000	0.34					
1.005	S1005 Tank	-0.767	0.000	0.00					
2.000	S1200	-0.197	0.000	0.04					
1.006	S1006	0.194	0.000	0.26					
3.000	RE01	-0.117	0.000	0.11					
4.000	RE02	-0.122	0.000	0.08					
1.007	S1007	0.223	0.000	0.25					
5.000	S3000	-0.271	0.000	0.02					
5.001	S3001	-0.256	0.000	0.05					
5.002	S3002	-0.268	0.000	0.03					
6.000	S4000	-0.265	0.000	0.03					
1.008	S1008	0.294	0.000	0.22					
7.000	S5000	-0.072	0.000	0.04					
1.009	S1009	0.486	0.000	0.45					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.016	29.343	0.5	5.3	OK
1.001	S1001	0.173	41.614	0.6	7.5	OK
1.002	S1002	0.238	52.285	0.5	9.5	OK
1.003	S1003	0.126	75.226	0.6	13.6	OK
1.004	S1004	0.360	101.368	0.7	18.3	OK
1.005	S1005 Tank	0.000	101.368	0.1	18.3	OK
2.000	S1200	0.007	20.807	1.3	3.8	OK
1.006	S1006	64.499	122.176	0.5	13.7	SURCHARGED
3.000	RE01	0.000	16.539	1.1	3.0	OK
4.000	RE02	0.000	13.338	1.1	2.4	OK
1.007	S1007	1.496	160.055	0.6	14.5	SURCHARGED
5.000	S3000	0.007	9.603	0.6	1.7	OK
5.001	S3001	0.044	21.341	0.6	3.9	OK
5.002	S3002	0.052	36.279	1.8	6.6	OK
6.000	S4000	0.034	30.411	1.2	5.5	OK
1.008	S1008	3.898	239.549	0.8	18.2	SURCHARGED
7.000	S5000	0.021	9.603	1.2	1.7	OK
1.009	S1009	2.515	249.150	1.1	19.0	SURCHARGED

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Summary Wizard of 480 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 30 year Summer I+0%	480	59	29.920	29.056
1.001	S1001		480 minute 30 year Summer I+0%	480	59	29.921	28.995
1.002	S1002		480 minute 30 year Summer I+0%	480	59	29.920	28.924
1.003	S1003		480 minute 30 year Summer I+0%	480	59	29.846	28.901
1.004	S1004		480 minute 30 year Summer I+0%	480	59	29.850	28.843
1.005	S1005 Tank		480 minute 30 year Summer I+0%	480	35	29.350	28.186
2.000	S1200		480 minute 30 year Summer I+0%	480	59	29.350	28.601
1.006	S1006		480 minute 30 year Summer I+0%	480	35	29.350	28.185
3.000	RE01		480 minute 30 year Summer I+0%	480	59	29.859	28.710
4.000	RE02		480 minute 30 year Summer I+0%	480	59	29.902	28.704
1.007	S1007		480 minute 30 year Summer I+0%	480	35	29.905	28.179
5.000	S3000		480 minute 30 year Summer I+0%	480	59	29.950	29.024
5.001	S3001		480 minute 30 year Summer I+0%	480	59	29.916	28.925
5.002	S3002		480 minute 30 year Summer I+0%	480	59	29.887	28.700
6.000	S4000		480 minute 30 year Summer I+0%	480	59	29.850	28.583
1.008	S1008		480 minute 30 year Summer I+0%	480	37	29.874	28.166
7.000	S5000		480 minute 30 year Summer I+0%	480	53	29.836	28.152
1.009	S1009		480 minute 30 year Summer I+0%	480	39	29.874	28.149

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Page 103

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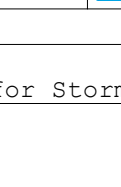
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Summary Wizard of 600 minute 30 year Summer I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	S1000	-0.249	0.000	0.07					
1.001	S1001	-0.239	0.000	0.09					
1.002	S1002	-0.223	0.000	0.13					
1.003	S1003	-0.217	0.000	0.17					
1.004	S1004	-0.200	0.000	0.24					
1.005	S1005 Tank	-0.879	0.000	0.00					
2.000	S1200	-0.201	0.000	0.03					
1.006	S1006	0.082	0.000	0.24					
3.000	RE01	-0.123	0.000	0.07					
4.000	RE02	-0.128	0.000	0.05					
1.007	S1007	0.111	0.000	0.24					
5.000	S3000	-0.280	0.000	0.01					
5.001	S3001	-0.263	0.000	0.04					
5.002	S3002	-0.274	0.000	0.02					
6.000	S4000	-0.269	0.000	0.02					
1.008	S1008	0.184	0.000	0.20					
7.000	S5000	-0.133	0.000	0.03					
1.009	S1009	0.377	0.000	0.42					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.013	34.277	0.5	3.7	OK			
1.001	S1001	0.145	48.610	0.5	5.3	OK			
1.002	S1002	0.191	61.075	0.5	6.7	OK			
1.003	S1003	0.102	87.873	0.6	9.6	OK			
1.004	S1004	0.246	118.410	0.6	12.9	OK			
1.005	S1005 Tank	0.000	118.410	0.1	12.9	OK			
2.000	S1200	0.005	24.305	1.3	2.6	OK			
1.006	S1006	48.735	142.715	0.5	12.5	SURCHARGED			
3.000	RE01	0.000	19.320	1.0	2.1	OK			
4.000	RE02	0.000	15.580	1.0	1.7	OK			
1.007	S1007	1.241	186.962	0.6	13.7	SURCHARGED			
5.000	S3000	0.004	11.218	0.6	1.2	OK			
5.001	S3001	0.036	24.928	0.5	2.7	OK			
5.002	S3002	0.040	42.378	1.8	4.6	OK			
6.000	S4000	0.029	35.523	1.2	3.9	OK			
1.008	S1008	3.392	279.820	0.8	16.9	SURCHARGED			
7.000	S5000	0.003	11.218	1.1	1.2	OK			
1.009	S1009	2.300	291.036	1.1	17.5	SURCHARGED			

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
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Summary Wizard of 1440 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 1
Number of Online Controls 1	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 0.280
Region England and Wales Cv (Summer) 1.000		
M5-60 (mm)	19.000 Cv (Winter) 1.000	

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 30 year Summer I+0%	1440	92	29.920	29.037
1.001	S1001		1440 minute 30 year Summer I+0%	1440	92	29.921	28.972
1.002	S1002		1440 minute 30 year Summer I+0%	1440	92	29.920	28.895
1.003	S1003		1440 minute 30 year Summer I+0%	1440	92	29.846	28.870
1.004	S1004		1440 minute 30 year Summer I+0%	1440	92	29.850	28.807
1.005	S1005 Tank		1440 minute 30 year Summer I+0%	1440	84	29.350	27.902
2.000	S1200		1440 minute 30 year Summer I+0%	1440	92	29.350	28.590
1.006	S1006		1440 minute 30 year Summer I+0%	1440	84	29.350	27.902
3.000	RE01		1440 minute 30 year Summer I+0%	1440	92	29.859	28.699
4.000	RE02		1440 minute 30 year Summer I+0%	1440	92	29.902	28.697
1.007	S1007		1440 minute 30 year Summer I+0%	1440	86	29.905	27.898
5.000	S3000		1440 minute 30 year Summer I+0%	1440	92	29.950	29.011
5.001	S3001		1440 minute 30 year Summer I+0%	1440	92	29.916	28.913
5.002	S3002		1440 minute 30 year Summer I+0%	1440	92	29.887	28.684
6.000	S4000		1440 minute 30 year Summer I+0%	1440	92	29.850	28.568
1.008	S1008		1440 minute 30 year Summer I+0%	1440	86	29.874	27.887
7.000	S5000		1440 minute 30 year Summer I+0%	1440	92	29.836	28.142
1.009	S1009		1440 minute 30 year Summer I+0%	1440	86	29.874	27.867

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Page 111

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Summary Wizard of 15 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Surcharged Flooded			Total				Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol(m³)	
1.000	S1000	0.354	0.000	0.65					
1.001	S1001	0.354	0.000	0.85					
1.002	S1002	0.365	0.000	1.27					
1.003	S1003	0.324	0.000	1.57					
1.004	S1004	0.202	0.000	2.28					
1.005	S1005 Tank	-0.471	0.000	0.03					
2.000	S1200	-0.146	0.000	0.27					
1.006	S1006	0.486	0.000	0.40					
3.000	RE01	0.021	0.000	0.73					
4.000	RE02	-0.070	0.000	0.55					
1.007	S1007	0.508	0.000	0.37					
5.000	S3000	-0.224	0.000	0.14					
5.001	S3001	-0.169	0.000	0.38					
5.002	S3002	-0.210	0.000	0.19					
6.000	S4000	-0.187	0.000	0.23					
1.008	S1008	0.685	0.000	0.28					
7.000	S5000	0.371	0.000	0.31					
1.009	S1009	0.883	0.000	0.56					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.183	16.418	0.7	36.3	FLOOD RISK
1.001	S1001	1.610	23.292	0.7	49.9	SURCHARGED
1.002	S1002	1.970	29.261	0.9	62.7	SURCHARGED
1.003	S1003	0.742	42.088	1.3	89.6	SURCHARGED
1.004	S1004	1.631	56.712	1.7	121.3	SURCHARGED
1.005	S1005 Tank	0.000	56.709	0.2	115.6	OK
2.000	S1200	0.021	11.643	2.2	26.6	OK
1.006	S1006	105.704	7.246	0.3	21.0	SURCHARGED
3.000	RE01	0.000	9.251	1.7	20.5	SURCHARGED
4.000	RE02	0.000	7.464	1.8	17.1	OK
1.007	S1007	2.146	26.423	0.5	21.3	SURCHARGED
5.000	S3000	0.020	5.374	0.9	12.3	OK
5.001	S3001	0.195	11.940	1.0	27.8	OK
5.002	S3002	0.164	20.296	2.8	48.7	OK
6.000	S4000	0.122	17.015	1.9	38.5	OK
1.008	S1008	5.667	66.858	0.9	23.1	SURCHARGED
7.000	S5000	0.146	5.352	1.6	12.0	SURCHARGED
1.009	S1009	3.221	69.231	1.1	23.3	SURCHARGED

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
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Summary Wizard of 60 minute 100 year Summer I+45% 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	60 minute	100 year Summer I+45%	60	5	29.920	29.477
1.001	S1001	60 minute	100 year Summer I+45%	60	5	29.921	29.402
1.002	S1002	60 minute	100 year Summer I+45%	60	8	29.920	29.323
1.003	S1003	60 minute	100 year Summer I+45%	60	8	29.846	29.254
1.004	S1004	60 minute	100 year Summer I+45%	60	10	29.850	29.133
1.005	S1005 Tank	60 minute	100 year Summer I+45%	60	8	29.350	29.007
2.000	S1200	60 minute	100 year Summer I+45%	60	8	29.350	28.983
1.006	S1006	60 minute	100 year Summer I+45%	60	8	29.350	28.979
3.000	RE01	60 minute	100 year Summer I+45%	60	8	29.859	28.982
4.000	RE02	60 minute	100 year Summer I+45%	60	8	29.902	28.979
1.007	S1007	60 minute	100 year Summer I+45%	60	8	29.905	28.971
5.000	S3000	60 minute	100 year Summer I+45%	60	10	29.950	29.066
5.001	S3001	60 minute	100 year Summer I+45%	60	11	29.916	28.995
5.002	S3002	60 minute	100 year Summer I+45%	60	8	29.887	28.955
6.000	S4000	60 minute	100 year Summer I+45%	60	8	29.850	28.957
1.008	S1008	60 minute	100 year Summer I+45%	60	8	29.874	28.953
7.000	S5000	60 minute	100 year Summer I+45%	60	8	29.836	28.882
1.009	S1009	60 minute	100 year Summer I+45%	60	8	29.874	28.879

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Summary Wizard of 60 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	
		Depth (m)	Volume (m³)					Overflow Vol (m³)	Level Exceeded
1.000	S1000	0.177	0.000	0.50					
1.001	S1001	0.172	0.000	0.68					
1.002	S1002	0.183	0.000	1.01					
1.003	S1003	0.144	0.000	1.25					
1.004	S1004	0.098	0.000	1.80					
1.005	S1005 Tank	-0.004	0.000	0.02					
2.000	S1200	0.183	0.000	0.21					
1.006	S1006	0.929	0.000	0.42					
3.000	RE01	0.152	0.000	0.57					
4.000	RE02	0.149	0.000	0.42					
1.007	S1007	0.956	0.000	0.39					
5.000	S3000	-0.234	0.000	0.11					
5.001	S3001	-0.190	0.000	0.29					
5.002	S3002	-0.015	0.000	0.14					
6.000	S4000	0.107	0.000	0.17					
1.008	S1008	1.023	0.000	0.30					
7.000	S5000	0.602	0.000	0.23					
1.009	S1009	1.159	0.000	0.62					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Vol (m³)	Vol (m³)			
1.000	S1000	0.134	30.635	0.7	28.3	SURCHARGED
1.001	S1001	1.559	43.444	0.7	39.8	SURCHARGED
1.002	S1002	1.919	54.584	0.7	49.8	SURCHARGED
1.003	S1003	0.691	78.538	1.0	71.3	SURCHARGED
1.004	S1004	1.593	105.831	1.4	95.7	SURCHARGED
1.005	S1005 Tank	0.705	105.831	0.2	94.6	OK
2.000	S1200	0.114	21.723	2.0	20.5	SURCHARGED
1.006	S1006	164.923	30.772	0.3	21.8	SURCHARGED
3.000	RE01	0.000	17.262	1.6	16.0	SURCHARGED
4.000	RE02	0.000	13.925	1.7	13.1	SURCHARGED
1.007	S1007	2.927	67.609	0.5	22.2	SURCHARGED
5.000	S3000	0.017	10.027	0.8	9.5	OK
5.001	S3001	0.129	22.280	0.9	21.1	OK
5.002	S3002	1.794	37.876	2.6	36.0	OK
6.000	S4000	0.454	31.749	1.8	29.3	SURCHARGED
1.008	S1008	6.516	145.344	0.8	25.1	SURCHARGED
7.000	S5000	0.211	9.872	1.5	8.9	SURCHARGED
1.009	S1009	3.709	151.708	1.2	26.1	SURCHARGED

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Page 117

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Summary Wizard of 120 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.						
1.000	S1000	0.082	0.000	0.35						
1.001	S1001	0.148	0.000	0.47						
1.002	S1002	0.232	0.000	0.70						
1.003	S1003	0.258	0.000	0.86						
1.004	S1004	0.323	0.000	1.23						
1.005	S1005 Tank	0.337	0.000	0.02						
2.000	S1200	0.546	0.000	0.14						
1.006	S1006	1.298	0.000	0.42						
3.000	RE01	0.524	0.000	0.41						
4.000	RE02	0.520	0.000	0.30						
1.007	S1007	1.326	0.000	0.39						
5.000	S3000	0.030	0.000	0.08						
5.001	S3001	0.144	0.000	0.20						
5.002	S3002	0.355	0.000	0.10						
6.000	S4000	0.477	0.000	0.12						
1.008	S1008	1.392	0.000	0.34						
7.000	S5000	0.955	0.000	0.16						
1.009	S1009	1.511	0.000	0.69						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.107	39.414	0.6	19.9	SURCHARGED
1.001	S1001	1.552	55.892	0.7	27.4	SURCHARGED
1.002	S1002	1.933	70.223	0.6	34.4	SURCHARGED
1.003	S1003	0.724	101.037	0.8	48.9	SURCHARGED
1.004	S1004	1.665	136.149	0.9	65.4	SURCHARGED
1.005	S1005 Tank	0.748	136.150	0.2	64.5	FLOOD RISK
2.000	S1200	0.217	27.946	1.8	14.4	FLOOD RISK
1.006	S1006	169.112	129.730	0.4	21.8	FLOOD RISK
3.000	RE01	0.000	22.211	1.5	11.4	SURCHARGED
4.000	RE02	0.000	17.914	1.6	9.2	SURCHARGED
1.007	S1007	3.345	179.242	0.6	22.2	SURCHARGED
5.000	S3000	0.092	12.899	0.7	6.6	SURCHARGED
5.001	S3001	0.928	28.665	0.8	14.8	SURCHARGED
5.002	S3002	3.110	48.729	2.3	25.2	SURCHARGED
6.000	S4000	0.873	40.845	1.6	20.2	SURCHARGED
1.008	S1008	7.052	283.189	0.8	28.3	SURCHARGED
7.000	S5000	0.311	12.898	1.4	6.2	SURCHARGED
1.009	S1009	4.331	293.640	1.2	29.0	SURCHARGED

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Page 119

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Summary Wizard of 180 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.						
1.000	S1000	0.083	0.000	0.28						
1.001	S1001	0.149	0.000	0.38						
1.002	S1002	0.233	0.000	0.56						
1.003	S1003	0.259	0.000	0.69						
1.004	S1004	0.324	0.000	1.00						
1.005	S1005 Tank	0.338	0.000	0.01						
2.000	S1200	0.546	0.000	0.11						
1.006	S1006	1.299	0.000	0.41						
3.000	RE01	0.526	0.000	0.32						
4.000	RE02	0.522	0.000	0.23						
1.007	S1007	1.327	0.000	0.38						
5.000	S3000	0.031	0.000	0.06						
5.001	S3001	0.145	0.000	0.16						
5.002	S3002	0.356	0.000	0.08						
6.000	S4000	0.478	0.000	0.09						
1.008	S1008	1.393	0.000	0.34						
7.000	S5000	0.955	0.000	0.13						
1.009	S1009	1.511	0.000	0.69						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.107	44.789	0.6	15.8	SURCHARGED
1.001	S1001	1.552	63.517	0.7	22.2	SURCHARGED
1.002	S1002	1.933	79.804	0.6	27.8	SURCHARGED
1.003	S1003	0.724	114.819	0.8	39.7	SURCHARGED
1.004	S1004	1.666	154.721	0.9	53.3	SURCHARGED
1.005	S1005 Tank	0.748	154.722	0.2	53.2	FLOOD RISK
2.000	S1200	0.217	31.759	1.7	11.2	FLOOD RISK
1.006	S1006	169.113	184.754	0.5	21.4	FLOOD RISK
3.000	RE01	0.000	25.242	1.4	8.9	SURCHARGED
4.000	RE02	0.000	20.358	1.5	7.2	SURCHARGED
1.007	S1007	3.346	242.506	0.6	21.8	SURCHARGED
5.000	S3000	0.092	14.658	0.7	5.2	SURCHARGED
5.001	S3001	0.928	32.574	0.8	11.5	SURCHARGED
5.002	S3002	3.110	55.375	2.2	19.6	SURCHARGED
6.000	S4000	0.875	46.417	1.5	15.9	SURCHARGED
1.008	S1008	7.053	363.783	0.8	28.3	SURCHARGED
7.000	S5000	0.311	14.658	1.3	4.9	SURCHARGED
1.009	S1009	4.332	378.330	1.2	29.1	SURCHARGED

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Summary Wizard of 240 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)				Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.086	0.000	0.23					
1.001	S1001	-0.020	0.000	0.32					
1.002	S1002	0.063	0.000	0.47					
1.003	S1003	0.089	0.000	0.58					
1.004	S1004	0.156	0.000	0.84					
1.005	S1005 Tank	0.172	0.000	0.01					
2.000	S1200	0.387	0.000	0.09					
1.006	S1006	1.133	0.000	0.40					
3.000	RE01	0.356	0.000	0.26					
4.000	RE02	0.352	0.000	0.19					
1.007	S1007	1.159	0.000	0.37					
5.000	S3000	-0.139	0.000	0.05					
5.001	S3001	-0.025	0.000	0.13					
5.002	S3002	0.187	0.000	0.06					
6.000	S4000	0.309	0.000	0.08					
1.008	S1008	1.224	0.000	0.32					
7.000	S5000	0.794	0.000	0.10					
1.009	S1009	1.350	0.000	0.66					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.059	48.698	0.6	13.1	OK
1.001	S1001	1.272	69.062	0.7	18.5	OK
1.002	S1002	1.806	86.770	0.6	23.2	SURCHARGED
1.003	S1003	0.671	124.844	0.7	33.2	SURCHARGED
1.004	S1004	1.618	168.229	0.8	44.6	SURCHARGED
1.005	S1005 Tank	0.745	168.227	0.1	44.5	FLOOD RISK
2.000	S1200	0.172	34.531	1.6	9.3	FLOOD RISK
1.006	S1006	168.924	202.621	0.5	21.0	FLOOD RISK
3.000	RE01	0.000	27.446	1.4	7.4	SURCHARGED
4.000	RE02	0.000	22.136	1.4	6.0	SURCHARGED
1.007	S1007	3.156	265.480	0.6	21.5	SURCHARGED
5.000	S3000	0.044	15.938	0.7	4.3	OK
5.001	S3001	0.670	35.417	0.7	9.5	OK
5.002	S3002	3.019	60.208	2.2	16.2	SURCHARGED
6.000	S4000	0.683	50.468	1.5	13.3	SURCHARGED
1.008	S1008	6.812	397.401	0.8	26.8	SURCHARGED
7.000	S5000	0.265	15.937	1.3	4.0	SURCHARGED
1.009	S1009	4.047	413.313	1.2	27.7	SURCHARGED

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Page 123

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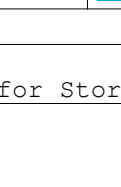
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Summary Wizard of 360 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.212	0.000		0.18						
1.001	S1001	-0.190	0.000		0.24						
1.002	S1002	-0.105	0.000		0.36						
1.003	S1003	-0.079	0.000		0.44						
1.004	S1004	-0.012	0.000		0.64						
1.005	S1005 Tank	-0.006	0.000		0.01						
2.000	S1200	0.182	0.000		0.07						
1.006	S1006	0.928	0.000		0.35						
3.000	RE01	0.151	0.000		0.20						
4.000	RE02	0.148	0.000		0.15						
1.007	S1007	0.955	0.000		0.34						
5.000	S3000	-0.262	0.000		0.04						
5.001	S3001	-0.227	0.000		0.10						
5.002	S3002	-0.016	0.000		0.05						
6.000	S4000	0.106	0.000		0.06						
1.008	S1008	1.022	0.000		0.30						
7.000	S5000	0.601	0.000		0.08						
1.009	S1009	1.158	0.000		0.62						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.023	54.818	0.6	9.9	OK			
1.001	S1001	0.290	77.743	0.7	14.1	OK			
1.002	S1002	0.912	97.677	0.6	17.7	OK			
1.003	S1003	0.426	140.535	0.7	25.4	OK			
1.004	S1004	1.359	189.373	0.8	34.1	OK			
1.005	S1005 Tank	0.699	189.373	0.1	34.1	OK			
2.000	S1200	0.114	38.872	1.5	7.1	SURCHARGED			
1.006	S1006	164.901	228.244	0.5	18.5	SURCHARGED			
3.000	RE01	0.000	30.897	1.2	5.6	SURCHARGED			
4.000	RE02	0.000	24.918	1.3	4.5	SURCHARGED			
1.007	S1007	2.926	299.009	0.6	19.6	SURCHARGED			
5.000	S3000	0.009	17.941	0.6	3.3	OK			
5.001	S3001	0.076	39.868	0.7	7.2	OK			
5.002	S3002	1.783	67.776	2.0	12.3	OK			
6.000	S4000	0.453	56.812	1.4	10.3	SURCHARGED			
1.008	S1008	6.514	447.517	0.8	25.0	SURCHARGED			
7.000	S5000	0.211	17.941	1.3	3.0	SURCHARGED			
1.009	S1009	3.707	465.456	1.2	26.1	SURCHARGED			

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SGi Consulting		Page 126	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE			
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Summary Wizard of 600 minute 100 year Summer I+45% 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		600 minute 100 year Summer I+45%	600	40	29.920	29.071
1.001	S1001		600 minute 100 year Summer I+45%	600	40	29.921	29.012
1.002	S1002		600 minute 100 year Summer I+45%	600	38	29.920	28.950
1.003	S1003		600 minute 100 year Summer I+45%	600	37	29.846	28.929
1.004	S1004		600 minute 100 year Summer I+45%	600	37	29.850	28.875
1.005	S1005 Tank		600 minute 100 year Summer I+45%	600	12	29.350	28.823
2.000	S1200		600 minute 100 year Summer I+45%	600	12	29.350	28.822
1.006	S1006		600 minute 100 year Summer I+45%	600	12	29.350	28.818
3.000	RE01		600 minute 100 year Summer I+45%	600	14	29.859	28.821
4.000	RE02		600 minute 100 year Summer I+45%	600	12	29.902	28.818
1.007	S1007		600 minute 100 year Summer I+45%	600	12	29.905	28.811
5.000	S3000		600 minute 100 year Summer I+45%	600	40	29.950	29.032
5.001	S3001		600 minute 100 year Summer I+45%	600	40	29.916	28.936
5.002	S3002		600 minute 100 year Summer I+45%	600	12	29.887	28.795
6.000	S4000		600 minute 100 year Summer I+45%	600	12	29.850	28.797
1.008	S1008		600 minute 100 year Summer I+45%	600	12	29.874	28.793
7.000	S5000		600 minute 100 year Summer I+45%	600	12	29.836	28.730
1.009	S1009		600 minute 100 year Summer I+45%	600	12	29.874	28.727

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Page 127

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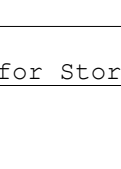
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Summary Wizard of 600 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	S1000	-0.229	0.000	0.12					
1.001	S1001	-0.218	0.000	0.17					
1.002	S1002	-0.190	0.000	0.25					
1.003	S1003	-0.181	0.000	0.31					
1.004	S1004	-0.160	0.000	0.45					
1.005	S1005 Tank	-0.188	0.000	0.01					
2.000	S1200	0.022	0.000	0.05					
1.006	S1006	0.768	0.000	0.33					
3.000	RE01	-0.009	0.000	0.14					
4.000	RE02	-0.012	0.000	0.10					
1.007	S1007	0.796	0.000	0.33					
5.000	S3000	-0.268	0.000	0.03					
5.001	S3001	-0.249	0.000	0.07					
5.002	S3002	-0.175	0.000	0.03					
6.000	S4000	-0.053	0.000	0.04					
1.008	S1008	0.863	0.000	0.29					
7.000	S5000	0.450	0.000	0.05					
1.009	S1009	1.007	0.000	0.59					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.019	63.322	0.5	6.9	OK
1.001	S1001	0.202	89.803	0.6	9.8	OK
1.002	S1002	0.302	112.829	0.5	12.3	OK
1.003	S1003	0.166	162.336	0.7	17.7	OK
1.004	S1004	0.479	218.750	0.7	23.8	OK
1.005	S1005 Tank	0.197	218.750	0.1	23.8	OK
2.000	S1200	0.068	44.902	1.4	4.9	SURCHARGED
1.006	S1006	145.281	263.652	0.5	17.2	SURCHARGED
3.000	RE01	0.000	35.691	1.2	3.9	OK
4.000	RE02	0.000	28.783	1.2	3.1	OK
1.007	S1007	2.720	345.394	0.6	18.9	SURCHARGED
5.000	S3000	0.008	20.724	0.6	2.3	OK
5.001	S3001	0.052	46.053	0.6	5.0	OK
5.002	S3002	0.337	78.290	1.8	8.5	OK
6.000	S4000	0.274	65.625	1.3	7.1	OK
1.008	S1008	6.214	516.940	0.8	23.7	SURCHARGED
7.000	S5000	0.168	20.724	1.2	2.1	SURCHARGED
1.009	S1009	3.440	537.662	1.1	24.6	SURCHARGED

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SGi Consulting		Page 128	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE			
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Summary Wizard of 720 minute 100 year Summer I+45% 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 1
Number of Online Controls 1	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 0.280
Region England and Wales	Cv (Summer)	1.000
M5-60 (mm)	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		720 minute 100 year Summer I+45%	720	44	29.920	29.066
1.001	S1001		720 minute 100 year Summer I+45%	720	44	29.921	29.006
1.002	S1002		720 minute 100 year Summer I+45%	720	42	29.920	28.941
1.003	S1003		720 minute 100 year Summer I+45%	720	42	29.846	28.920
1.004	S1004		720 minute 100 year Summer I+45%	720	42	29.850	28.865
1.005	S1005 Tank		720 minute 100 year Summer I+45%	720	16	29.350	28.743
2.000	S1200		720 minute 100 year Summer I+45%	720	16	29.350	28.744
1.006	S1006		720 minute 100 year Summer I+45%	720	16	29.350	28.740
3.000	RE01		720 minute 100 year Summer I+45%	720	21	29.859	28.742
4.000	RE02		720 minute 100 year Summer I+45%	720	18	29.902	28.740
1.007	S1007		720 minute 100 year Summer I+45%	720	16	29.905	28.733
5.000	S3000		720 minute 100 year Summer I+45%	720	44	29.950	29.031
5.001	S3001		720 minute 100 year Summer I+45%	720	43	29.916	28.932
5.002	S3002		720 minute 100 year Summer I+45%	720	23	29.887	28.718
6.000	S4000		720 minute 100 year Summer I+45%	720	16	29.850	28.719
1.008	S1008		720 minute 100 year Summer I+45%	720	16	29.874	28.715
7.000	S5000		720 minute 100 year Summer I+45%	720	16	29.836	28.656
1.009	S1009		720 minute 100 year Summer I+45%	720	16	29.874	28.653

SGi Consulting		Page 129
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAIN...	Checked by	
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Summary Wizard of 720 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.234	0.000	0.11					
1.001	S1001	-0.224	0.000	0.15					
1.002	S1002	-0.199	0.000	0.22					
1.003	S1003	-0.190	0.000	0.27					
1.004	S1004	-0.170	0.000	0.39					
1.005	S1005 Tank	-0.268	0.000	0.00					
2.000	S1200	-0.056	0.000	0.04					
1.006	S1006	0.690	0.000	0.31					
3.000	RE01	-0.088	0.000	0.12					
4.000	RE02	-0.090	0.000	0.09					
1.007	S1007	0.718	0.000	0.32					
5.000	S3000	-0.269	0.000	0.02					
5.001	S3001	-0.253	0.000	0.06					
5.002	S3002	-0.252	0.000	0.03					
6.000	S4000	-0.131	0.000	0.04					
1.008	S1008	0.785	0.000	0.28					
7.000	S5000	0.376	0.000	0.05					
1.009	S1009	0.933	0.000	0.57					

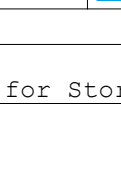
PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.017	66.582	0.5	6.0	OK
1.001	S1001	0.186	94.426	0.6	8.6	OK
1.002	S1002	0.257	118.638	0.5	10.8	OK
1.003	S1003	0.142	170.693	0.7	15.5	OK
1.004	S1004	0.415	230.012	0.7	20.9	OK
1.005	S1005 Tank	0.050	230.012	0.1	20.9	OK
2.000	S1200	0.046	47.213	1.4	4.3	OK
1.006	S1006	134.344	277.225	0.5	16.4	SURCHARGED
3.000	RE01	0.000	37.528	1.1	3.4	OK
4.000	RE02	0.000	30.265	1.1	2.7	OK
1.007	S1007	2.613	363.176	0.6	18.3	SURCHARGED
5.000	S3000	0.007	21.791	0.6	2.0	OK
5.001	S3001	0.047	48.424	0.6	4.4	OK
5.002	S3002	0.083	82.320	1.8	7.5	OK
6.000	S4000	0.186	69.004	1.2	6.3	OK
1.008	S1008	5.988	543.553	0.8	23.0	SURCHARGED
7.000	S5000	0.147	21.791	1.2	1.9	SURCHARGED
1.009	S1009	3.310	565.341	1.1	23.9	SURCHARGED

SGi Consulting		Page 131
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
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Summary Wizard of 960 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.240	0.000	0.09					
1.001	S1001	-0.232	0.000	0.12					
1.002	S1002	-0.210	0.000	0.18					
1.003	S1003	-0.203	0.000	0.22					
1.004	S1004	-0.184	0.000	0.32					
1.005	S1005 Tank	-0.415	0.000	0.00					
2.000	S1200	-0.195	0.000	0.03					
1.006	S1006	0.545	0.000	0.29					
3.000	RE01	-0.119	0.000	0.10					
4.000	RE02	-0.124	0.000	0.07					
1.007	S1007	0.573	0.000	0.29					
5.000	S3000	-0.273	0.000	0.02					
5.001	S3001	-0.258	0.000	0.05					
5.002	S3002	-0.269	0.000	0.02					
6.000	S4000	-0.264	0.000	0.03					
1.008	S1008	0.641	0.000	0.27					
7.000	S5000	0.272	0.000	0.04					
1.009	S1009	0.829	0.000	0.55					

PN	US/MH	Maximum	Discharge	Maximum	Pipe	Status
	Name	Vol (m³)	Vol (m³)	Velocity (m/s)	Flow (l/s)	
1.000	S1000	0.015	71.975	0.5	4.9	OK
1.001	S1001	0.166	102.073	0.6	6.9	OK
1.002	S1002	0.227	128.246	0.5	8.7	OK
1.003	S1003	0.120	184.517	0.6	12.6	OK
1.004	S1004	0.327	248.640	0.7	16.9	OK
1.005	S1005 Tank	0.000	248.640	0.1	16.9	OK
2.000	S1200	0.007	51.037	1.3	3.5	OK
1.006	S1006	113.908	299.677	0.5	15.0	SURCHARGED
3.000	RE01	0.000	40.568	1.0	2.8	OK
4.000	RE02	0.000	32.716	1.1	2.2	OK
1.007	S1007	2.294	392.588	0.6	16.8	SURCHARGED
5.000	S3000	0.006	23.556	0.6	1.6	OK
5.001	S3001	0.042	52.345	0.6	3.6	OK
5.002	S3002	0.050	88.987	1.8	6.1	OK
6.000	S4000	0.036	74.592	1.2	5.1	OK
1.008	S1008	5.476	587.574	0.8	22.0	SURCHARGED
7.000	S5000	0.118	23.556	1.1	1.5	SURCHARGED
1.009	S1009	3.126	611.128	1.1	22.9	SURCHARGED

SGi Consulting		Page 132
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAINAGE	Checked by	
Micro Drainage		Network 2020.1.3

Summary Wizard of 1440 minute 100 year Summer I+45% 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	1
Number of Online Controls	1	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	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 100 year Summer I+45%	1440	67	29.920	29.050
1.001	S1001		1440 minute 100 year Summer I+45%	1440	67	29.921	28.990
1.002	S1002		1440 minute 100 year Summer I+45%	1440	65	29.920	28.916
1.003	S1003		1440 minute 100 year Summer I+45%	1440	65	29.846	28.892
1.004	S1004		1440 minute 100 year Summer I+45%	1440	65	29.850	28.833
1.005	S1005 Tank		1440 minute 100 year Summer I+45%	1440	22	29.350	28.370
2.000	S1200		1440 minute 100 year Summer I+45%	1440	67	29.350	28.599
1.006	S1006		1440 minute 100 year Summer I+45%	1440	22	29.350	28.369
3.000	RE01		1440 minute 100 year Summer I+45%	1440	67	29.859	28.707
4.000	RE02		1440 minute 100 year Summer I+45%	1440	67	29.902	28.702
1.007	S1007		1440 minute 100 year Summer I+45%	1440	22	29.905	28.362
5.000	S3000		1440 minute 100 year Summer I+45%	1440	67	29.950	29.020
5.001	S3001		1440 minute 100 year Summer I+45%	1440	66	29.916	28.922
5.002	S3002		1440 minute 100 year Summer I+45%	1440	65	29.887	28.695
6.000	S4000		1440 minute 100 year Summer I+45%	1440	67	29.850	28.581
1.008	S1008		1440 minute 100 year Summer I+45%	1440	22	29.874	28.348
7.000	S5000		1440 minute 100 year Summer I+45%	1440	22	29.836	28.331
1.009	S1009		1440 minute 100 year Summer I+45%	1440	22	29.874	28.328

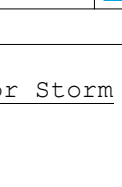
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SGi Consulting		Page 133
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAIN...	Designed by sgicivils Checked by	
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Summary Wizard of 1440 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)				Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.250	0.000	0.06					
1.001	S1001	-0.240	0.000	0.09					
1.002	S1002	-0.224	0.000	0.13					
1.003	S1003	-0.218	0.000	0.16					
1.004	S1004	-0.202	0.000	0.24					
1.005	S1005 Tank	-0.641	0.000	0.00					
2.000	S1200	-0.201	0.000	0.03					
1.006	S1006	0.319	0.000	0.25					
3.000	RE01	-0.123	0.000	0.07					
4.000	RE02	-0.128	0.000	0.05					
1.007	S1007	0.347	0.000	0.25					
5.000	S3000	-0.280	0.000	0.01					
5.001	S3001	-0.263	0.000	0.04					
5.002	S3002	-0.275	0.000	0.02					
6.000	S4000	-0.269	0.000	0.02					
1.008	S1008	0.418	0.000	0.24					
7.000	S5000	0.051	0.000	0.03					
1.009	S1009	0.608	0.000	0.49					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.013	80.105	0.5	3.6	OK
1.001	S1001	0.144	113.603	0.5	5.2	OK
1.002	S1002	0.188	142.733	0.5	6.5	OK
1.003	S1003	0.100	205.360	0.6	9.3	OK
1.004	S1004	0.243	276.726	0.6	12.6	OK
1.005	S1005 Tank	0.000	276.726	0.1	12.6	OK
2.000	S1200	0.005	56.802	1.3	2.6	OK
1.006	S1006	82.119	333.528	0.5	13.1	SURCHARGED
3.000	RE01	0.000	45.150	1.0	2.0	OK
4.000	RE02	0.000	36.411	1.0	1.7	OK
1.007	S1007	1.781	436.934	0.6	14.5	SURCHARGED
5.000	S3000	0.004	26.216	0.6	1.2	OK
5.001	S3001	0.036	58.258	0.5	2.6	OK
5.002	S3002	0.038	99.039	1.8	4.5	OK
6.000	S4000	0.029	83.018	1.2	3.8	OK
1.008	S1008	4.459	653.945	0.8	19.7	SURCHARGED
7.000	S5000	0.055	26.216	1.1	1.2	SURCHARGED
1.009	S1009	2.736	680.160	1.1	20.4	SURCHARGED

SGi Consulting		Page 134	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE...			
Designed by sgicivils			
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Summary Wizard of 15 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

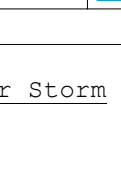
Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	1 year Winter I+0%	15	35	29.920	29.074
1.001	S1001	15 minute	1 year Winter I+0%	15	35	29.921	29.015
1.002	S1002	15 minute	1 year Winter I+0%	15	40	29.920	28.948
1.003	S1003	15 minute	1 year Winter I+0%	15	40	29.846	28.926
1.004	S1004	15 minute	1 year Winter I+0%	15	41	29.850	28.870
1.005	S1005 Tank	15 minute	1 year Winter I+0%	15	88	29.350	27.888
2.000	S1200	15 minute	1 year Winter I+0%	15	40	29.350	28.609
1.006	S1006	15 minute	1 year Winter I+0%	15	88	29.350	27.888
3.000	RE01	15 minute	1 year Winter I+0%	15	39	29.859	28.719
4.000	RE02	15 minute	1 year Winter I+0%	15	39	29.902	28.713
1.007	S1007	15 minute	1 year Winter I+0%	15	75	29.905	27.936
5.000	S3000	15 minute	1 year Winter I+0%	15	35	29.950	29.034
5.001	S3001	15 minute	1 year Winter I+0%	15	37	29.916	28.937
5.002	S3002	15 minute	1 year Winter I+0%	15	43	29.887	28.705
6.000	S4000	15 minute	1 year Winter I+0%	15	40	29.850	28.592
1.008	S1008	15 minute	1 year Winter I+0%	15	72	29.874	27.936
7.000	S5000	15 minute	1 year Winter I+0%	15	49	29.836	28.155
1.009	S1009	15 minute	1 year Winter I+0%	15	72	29.874	27.926

SGi Consulting		Page 138
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE...	Designed by sgicivils Checked by	
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

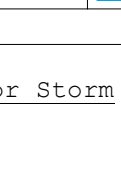
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		60 minute 1 year Winter I+0%	60	57	29.920	29.057
1.001	S1001		60 minute 1 year Winter I+0%	60	57	29.921	28.996
1.002	S1002		60 minute 1 year Winter I+0%	60	57	29.920	28.925
1.003	S1003		60 minute 1 year Winter I+0%	60	57	29.846	28.902
1.004	S1004		60 minute 1 year Winter I+0%	60	57	29.850	28.844
1.005	S1005 Tank		60 minute 1 year Winter I+0%	60	76	29.350	27.928
2.000	S1200		60 minute 1 year Winter I+0%	60	58	29.350	28.601
1.006	S1006		60 minute 1 year Winter I+0%	60	76	29.350	27.928
3.000	RE01		60 minute 1 year Winter I+0%	60	57	29.859	28.710
4.000	RE02		60 minute 1 year Winter I+0%	60	57	29.902	28.705
1.007	S1007		60 minute 1 year Winter I+0%	60	80	29.905	27.923
5.000	S3000		60 minute 1 year Winter I+0%	60	57	29.950	29.025
5.001	S3001		60 minute 1 year Winter I+0%	60	56	29.916	28.925
5.002	S3002		60 minute 1 year Winter I+0%	60	57	29.887	28.700
6.000	S4000		60 minute 1 year Winter I+0%	60	58	29.850	28.583
1.008	S1008		60 minute 1 year Winter I+0%	60	80	29.874	27.913
7.000	S5000		60 minute 1 year Winter I+0%	60	62	29.836	28.149
1.009	S1009		60 minute 1 year Winter I+0%	60	80	29.874	27.884

SGi Consulting		Page 139
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAIN...	Checked by	
Micro Drainage		Network 2020.1.3

Summary Wizard of 60 minute 1 year Winter I+0% for Storm

		Surcharged	Flooded	Total					
	US/MH	Depth	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level
PN	Name	(m)	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol (m³)	Exceeded
1.000	S1000	-0.243	0.000	0.08					
1.001	S1001	-0.234	0.000	0.11					
1.002	S1002	-0.215	0.000	0.16					
1.003	S1003	-0.208	0.000	0.20					
1.004	S1004	-0.191	0.000	0.29					
1.005	S1005 Tank	-1.083	0.000	0.00					
2.000	S1200	-0.199	0.000	0.03					
1.006	S1006	-0.122	0.000	0.22					
3.000	RE01	-0.120	0.000	0.09					
4.000	RE02	-0.125	0.000	0.07					
1.007	S1007	-0.092	0.000	0.21					
5.000	S3000	-0.275	0.000	0.02					
5.001	S3001	-0.260	0.000	0.04					
5.002	S3002	-0.270	0.000	0.02					
6.000	S4000	-0.267	0.000	0.03					
1.008	S1008	-0.017	0.000	0.17					
7.000	S5000	-0.131	0.000	0.04					
1.009	S1009	0.164	0.000	0.34					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.015	6.646	0.5	4.5	OK
1.001	S1001	0.159	9.426	0.6	6.3	OK
1.002	S1002	0.214	11.842	0.5	7.9	OK
1.003	S1003	0.113	17.038	0.6	11.3	OK
1.004	S1004	0.285	22.960	0.7	15.2	OK
1.005	S1005 Tank	0.000	22.960	0.2	15.2	OK
2.000	S1200	0.006	4.713	1.3	3.2	OK
1.006	S1006	20.078	26.284	0.5	11.6	OK
3.000	RE01	0.000	3.746	1.0	2.6	OK
4.000	RE02	0.000	3.021	1.1	2.1	OK
1.007	S1007	0.580	34.811	0.5	12.0	OK
5.000	S3000	0.006	2.175	0.6	1.5	OK
5.001	S3001	0.040	4.834	0.6	3.2	OK
5.002	S3002	0.049	8.216	1.8	5.5	OK
6.000	S4000	0.032	6.888	1.2	4.7	OK
1.008	S1008	2.181	52.766	0.8	13.9	OK
7.000	S5000	0.004	2.175	1.2	1.5	OK
1.009	S1009	1.832	54.843	1.0	14.2	SURCHARGED

SGi Consulting		Page 140
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

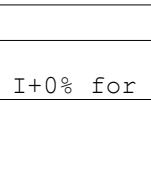
Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	120 minute	1 year Winter I+0%	120	72	29.920	29.045
1.001	S1001	120 minute	1 year Winter I+0%	120	73	29.921	28.984
1.002	S1002	120 minute	1 year Winter I+0%	120	73	29.920	28.909
1.003	S1003	120 minute	1 year Winter I+0%	120	73	29.846	28.884
1.004	S1004	120 minute	1 year Winter I+0%	120	73	29.850	28.825
1.005	S1005 Tank	120 minute	1 year Winter I+0%	120	81	29.350	27.914
2.000	S1200	120 minute	1 year Winter I+0%	120	72	29.350	28.598
1.006	S1006	120 minute	1 year Winter I+0%	120	81	29.350	27.913
3.000	RE01	120 minute	1 year Winter I+0%	120	72	29.859	28.704
4.000	RE02	120 minute	1 year Winter I+0%	120	72	29.902	28.700
1.007	S1007	120 minute	1 year Winter I+0%	120	83	29.905	27.909
5.000	S3000	120 minute	1 year Winter I+0%	120	72	29.950	29.017
5.001	S3001	120 minute	1 year Winter I+0%	120	73	29.916	28.919
5.002	S3002	120 minute	1 year Winter I+0%	120	73	29.887	28.691
6.000	S4000	120 minute	1 year Winter I+0%	120	72	29.850	28.577
1.008	S1008	120 minute	1 year Winter I+0%	120	83	29.874	27.899
7.000	S5000	120 minute	1 year Winter I+0%	120	72	29.836	28.146
1.009	S1009	120 minute	1 year Winter I+0%	120	83	29.874	27.875

SGi Consulting		Page 142
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
Designed by sgicivils Checked by		
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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 * 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	180 minute	1 year Winter I+0%	180	83	29.920	29.040
1.001	S1001	180 minute	1 year Winter I+0%	180	83	29.921	28.977
1.002	S1002	180 minute	1 year Winter I+0%	180	83	29.920	28.901
1.003	S1003	180 minute	1 year Winter I+0%	180	83	29.846	28.876
1.004	S1004	180 minute	1 year Winter I+0%	180	83	29.850	28.814
1.005	S1005 Tank	180 minute	1 year Winter I+0%	180	87	29.350	27.888
2.000	S1200	180 minute	1 year Winter I+0%	180	83	29.350	28.593
1.006	S1006	180 minute	1 year Winter I+0%	180	87	29.350	27.888
3.000	RE01	180 minute	1 year Winter I+0%	180	83	29.859	28.701
4.000	RE02	180 minute	1 year Winter I+0%	180	83	29.902	28.698
1.007	S1007	180 minute	1 year Winter I+0%	180	88	29.905	27.884
5.000	S3000	180 minute	1 year Winter I+0%	180	83	29.950	29.013
5.001	S3001	180 minute	1 year Winter I+0%	180	83	29.916	28.916
5.002	S3002	180 minute	1 year Winter I+0%	180	83	29.887	28.687
6.000	S4000	180 minute	1 year Winter I+0%	180	83	29.850	28.571
1.008	S1008	180 minute	1 year Winter I+0%	180	88	29.874	27.874
7.000	S5000	180 minute	1 year Winter I+0%	180	83	29.836	28.145
1.009	S1009	180 minute	1 year Winter I+0%	180	88	29.874	27.857

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Date 20/12/2024 11:43
File SW NETWORK 1 & 2 DRAINA...

Micro Drainage

Page 143



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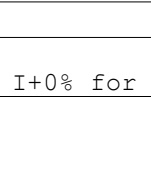
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Summary Wizard of 180 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.260	0.000		0.04					
1.001	S1001	-0.253	0.000		0.06					
1.002	S1002	-0.239	0.000		0.09					
1.003	S1003	-0.234	0.000		0.11					
1.004	S1004	-0.221	0.000		0.16					
1.005	S1005 Tank	-1.123	0.000		0.00					
2.000	S1200	-0.207	0.000		0.02					
1.006	S1006	-0.162	0.000		0.17					
3.000	RE01	-0.129	0.000		0.05					
4.000	RE02	-0.132	0.000		0.04					
1.007	S1007	-0.131	0.000		0.18					
5.000	S3000	-0.287	0.000		0.01					
5.001	S3001	-0.269	0.000		0.02					
5.002	S3002	-0.283	0.000		0.01					
6.000	S4000	-0.279	0.000		0.01					
1.008	S1008	-0.056	0.000		0.16					
7.000	S5000	-0.135	0.000		0.02					
1.009	S1009	0.137	0.000		0.33					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.010	10.427	0.4	2.4	OK
1.001	S1001	0.109	14.787	0.5	3.4	OK
1.002	S1002	0.150	18.579	0.4	4.3	OK
1.003	S1003	0.079	26.731	0.5	6.2	OK
1.004	S1004	0.193	36.021	0.6	8.4	OK
1.005	S1005 Tank	0.000	36.021	0.1	8.4	OK
2.000	S1200	0.004	7.394	1.3	1.7	OK
1.006	S1006	14.484	43.404	0.5	9.0	OK
3.000	RE01	0.000	5.877	0.9	1.4	OK
4.000	RE02	0.000	4.739	0.9	1.1	OK
1.007	S1007	0.440	56.863	0.6	10.2	OK
5.000	S3000	0.002	3.412	0.4	0.8	OK
5.001	S3001	0.030	7.583	0.5	1.8	OK
5.002	S3002	0.022	12.890	1.7	3.0	OK
6.000	S4000	0.018	10.806	1.2	2.5	OK
1.008	S1008	1.776	85.109	0.8	13.3	OK
7.000	S5000	0.003	3.412	1.1	0.8	OK
1.009	S1009	1.722	88.514	1.0	13.8	SURCHARGED

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 240 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	240 minute	1 year Winter I+0%	240	91	29.920	29.037
1.001	S1001	240 minute	1 year Winter I+0%	240	91	29.921	28.973
1.002	S1002	240 minute	1 year Winter I+0%	240	91	29.920	28.896
1.003	S1003	240 minute	1 year Winter I+0%	240	91	29.846	28.871
1.004	S1004	240 minute	1 year Winter I+0%	240	91	29.850	28.807
1.005	S1005 Tank	240 minute	1 year Winter I+0%	240	94	29.350	27.865
2.000	S1200	240 minute	1 year Winter I+0%	240	91	29.350	28.591
1.006	S1006	240 minute	1 year Winter I+0%	240	94	29.350	27.864
3.000	RE01	240 minute	1 year Winter I+0%	240	91	29.859	28.699
4.000	RE02	240 minute	1 year Winter I+0%	240	91	29.902	28.697
1.007	S1007	240 minute	1 year Winter I+0%	240	94	29.905	27.859
5.000	S3000	240 minute	1 year Winter I+0%	240	91	29.950	29.011
5.001	S3001	240 minute	1 year Winter I+0%	240	91	29.916	28.914
5.002	S3002	240 minute	1 year Winter I+0%	240	91	29.887	28.684
6.000	S4000	240 minute	1 year Winter I+0%	240	91	29.850	28.568
1.008	S1008	240 minute	1 year Winter I+0%	240	94	29.874	27.850
7.000	S5000	240 minute	1 year Winter I+0%	240	91	29.836	28.142
1.009	S1009	240 minute	1 year Winter I+0%	240	94	29.874	27.837

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Page 145

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Micro Drainage

Network 2020.1.3

Micro Drainage

Summary Wizard of 240 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol(m³)	Level Exceeded
		Depth (m)	Volume (m³)							
1.000	S1000	-0.263	0.000	0.04						
1.001	S1001	-0.257	0.000	0.05						
1.002	S1002	-0.244	0.000	0.07						
1.003	S1003	-0.239	0.000	0.09						
1.004	S1004	-0.228	0.000	0.13						
1.005	S1005 Tank	-1.146	0.000	0.00						
2.000	S1200	-0.209	0.000	0.01						
1.006	S1006	-0.186	0.000	0.15						
3.000	RE01	-0.131	0.000	0.04						
4.000	RE02	-0.133	0.000	0.03						
1.007	S1007	-0.156	0.000	0.16						
5.000	S3000	-0.289	0.000	0.01						
5.001	S3001	-0.271	0.000	0.02						
5.002	S3002	-0.286	0.000	0.01						
6.000	S4000	-0.282	0.000	0.01						
1.008	S1008	-0.080	0.000	0.16						
7.000	S5000	-0.138	0.000	0.02						
1.009	S1009	0.117	0.000	0.32						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.009	11.680	0.4	2.0	OK
1.001	S1001	0.099	16.565	0.5	2.9	OK
1.002	S1002	0.136	20.812	0.4	3.6	OK
1.003	S1003	0.073	29.944	0.5	5.2	OK
1.004	S1004	0.175	40.350	0.5	7.1	OK
1.005	S1005 Tank	0.000	40.350	0.1	7.0	OK
2.000	S1200	0.003	8.282	1.3	1.5	OK
1.006	S1006	11.146	48.630	0.5	7.7	OK
3.000	RE01	0.000	6.583	0.9	1.2	OK
4.000	RE02	0.000	5.309	0.9	0.9	OK
1.007	S1007	0.354	63.708	0.6	9.2	OK
5.000	S3000	0.002	3.822	0.4	0.7	OK
5.001	S3001	0.027	8.494	0.5	1.5	OK
5.002	S3002	0.017	14.440	1.4	2.5	OK
6.000	S4000	0.015	12.104	1.2	2.1	OK
1.008	S1008	1.523	95.349	0.8	12.9	OK
7.000	S5000	0.002	3.822	1.1	0.7	OK
1.009	S1009	1.640	99.169	1.0	13.4	SURCHARGED

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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE...		
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		360 minute 1 year Winter I+0%	360	102	29.920	29.033
1.001	S1001		360 minute 1 year Winter I+0%	360	102	29.921	28.968
1.002	S1002		360 minute 1 year Winter I+0%	360	102	29.920	28.888
1.003	S1003		360 minute 1 year Winter I+0%	360	102	29.846	28.862
1.004	S1004		360 minute 1 year Winter I+0%	360	102	29.850	28.799
1.005	S1005 Tank		360 minute 1 year Winter I+0%	360	101	29.350	27.830
2.000	S1200		360 minute 1 year Winter I+0%	360	102	29.350	28.587
1.006	S1006		360 minute 1 year Winter I+0%	360	101	29.350	27.828
3.000	RE01		360 minute 1 year Winter I+0%	360	102	29.859	28.697
4.000	RE02		360 minute 1 year Winter I+0%	360	102	29.902	28.695
1.007	S1007		360 minute 1 year Winter I+0%	360	101	29.905	27.810
5.000	S3000		360 minute 1 year Winter I+0%	360	102	29.950	29.009
5.001	S3001		360 minute 1 year Winter I+0%	360	102	29.916	28.907
5.002	S3002		360 minute 1 year Winter I+0%	360	102	29.887	28.681
6.000	S4000		360 minute 1 year Winter I+0%	360	102	29.850	28.564
1.008	S1008		360 minute 1 year Winter I+0%	360	101	29.874	27.787
7.000	S5000		360 minute 1 year Winter I+0%	360	102	29.836	28.140
1.009	S1009		360 minute 1 year Winter I+0%	360	101	29.874	27.775

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<u>Summary Wizard of 360 minute 1 year Winter I+0% for Storm</u>									

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Network 2020.1.3

Page 148



Summary Wizard of 480 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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 1 year Winter I+0%	480	108	29.920	29.031
1.001	S1001		480 minute 1 year Winter I+0%	480	108	29.921	28.965
1.002	S1002		480 minute 1 year Winter I+0%	480	108	29.920	28.883
1.003	S1003		480 minute 1 year Winter I+0%	480	108	29.846	28.857
1.004	S1004		480 minute 1 year Winter I+0%	480	108	29.850	28.794
1.005	S1005 Tank		480 minute 1 year Winter I+0%	480	108	29.350	27.821
2.000	S1200		480 minute 1 year Winter I+0%	480	108	29.350	28.585
1.006	S1006		480 minute 1 year Winter I+0%	480	108	29.350	27.815
3.000	RE01		480 minute 1 year Winter I+0%	480	108	29.859	28.696
4.000	RE02		480 minute 1 year Winter I+0%	480	108	29.902	28.694
1.007	S1007		480 minute 1 year Winter I+0%	480	108	29.905	27.785
5.000	S3000		480 minute 1 year Winter I+0%	480	108	29.950	29.007
5.001	S3001		480 minute 1 year Winter I+0%	480	108	29.916	28.904
5.002	S3002		480 minute 1 year Winter I+0%	480	108	29.887	28.679
6.000	S4000		480 minute 1 year Winter I+0%	480	108	29.850	28.562
1.008	S1008		480 minute 1 year Winter I+0%	480	108	29.874	27.707
7.000	S5000		480 minute 1 year Winter I+0%	480	108	29.836	28.138
1.009	S1009		480 minute 1 year Winter I+0%	480	108	29.874	27.662

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Page 149

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Summary Wizard of 480 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.269	0.000		0.02						
1.001	S1001	-0.265	0.000		0.03						
1.002	S1002	-0.257	0.000		0.05						
1.003	S1003	-0.253	0.000		0.06						
1.004	S1004	-0.241	0.000		0.09						
1.005	S1005 Tank	-1.190	0.000		0.00						
2.000	S1200	-0.215	0.000		0.01						
1.006	S1006	-0.235	0.000		0.10						
3.000	RE01	-0.134	0.000		0.03						
4.000	RE02	-0.136	0.000		0.02						
1.007	S1007	-0.230	0.000		0.12						
5.000	S3000	-0.293	0.000		0.01						
5.001	S3001	-0.281	0.000		0.01						
5.002	S3002	-0.291	0.000		0.01						
6.000	S4000	-0.288	0.000		0.01						
1.008	S1008	-0.223	0.000		0.13						
7.000	S5000	-0.142	0.000		0.01						
1.009	S1009	-0.058	0.000		0.27						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.007	15.154	0.4	1.3	OK			
1.001	S1001	0.078	21.491	0.4	1.9	OK			
1.002	S1002	0.102	27.001	0.4	2.4	OK			
1.003	S1003	0.055	38.848	0.5	3.4	OK			
1.004	S1004	0.141	52.349	0.5	4.6	OK			
1.005	S1005 Tank	0.000	52.349	0.1	4.6	OK			
2.000	S1200	0.001	10.744	0.9	0.9	OK			
1.006	S1006	5.883	63.093	0.5	5.5	OK			
3.000	RE01	0.000	8.541	0.8	0.8	OK			
4.000	RE02	0.000	6.888	0.9	0.6	OK			
1.007	S1007	0.140	82.654	0.6	7.1	OK			
5.000	S3000	0.001	4.959	0.2	0.4	OK			
5.001	S3001	0.015	11.019	0.5	1.0	OK			
5.002	S3002	0.008	18.732	0.9	1.6	OK			
6.000	S4000	0.008	15.703	0.8	1.4	OK			
1.008	S1008	0.299	123.701	0.8	10.7	OK			
7.000	S5000	0.001	4.959	1.0	0.4	OK			
1.009	S1009	0.634	128.657	0.9	11.1	OK			

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Page 153

4th Floor, Colchester House
40 Peter Street
Manchester, M2 5GP

Date 20/12/2024 11:43
File SW NETWORK 1 & 2 DRAINA...

Designed by sgicivils
Checked by

Micro Drainage

Network 2020.1.3

Micro Drainage

Summary Wizard of 720 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Total			Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.274	0.000	0.02					
1.001	S1001	-0.268	0.000	0.03					
1.002	S1002	-0.262	0.000	0.04					
1.003	S1003	-0.259	0.000	0.05					
1.004	S1004	-0.250	0.000	0.07					
1.005	S1005 Tank	-1.194	0.000	0.00					
2.000	S1200	-0.217	0.000	0.01					
1.006	S1006	-0.243	0.000	0.08					
3.000	RE01	-0.135	0.000	0.02					
4.000	RE02	-0.139	0.000	0.02					
1.007	S1007	-0.238	0.000	0.10					
5.000	S3000	-0.294	0.000	0.00					
5.001	S3001	-0.286	0.000	0.01					
5.002	S3002	-0.293	0.000	0.01					
6.000	S4000	-0.291	0.000	0.01					
1.008	S1008	-0.237	0.000	0.10					
7.000	S5000	-0.144	0.000	0.01					
1.009	S1009	-0.094	0.000	0.21					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status		
1.000	S1000	0.006	17.664	0.4	1.0	OK		
1.001	S1001	0.070	25.050	0.4	1.5	OK		
1.002	S1002	0.088	31.473	0.4	1.8	OK		
1.003	S1003	0.047	45.283	0.5	2.7	OK		
1.004	S1004	0.118	61.020	0.5	3.6	OK		
1.005	S1005 Tank	0.000	61.020	0.1	3.6	OK		
2.000	S1200	0.001	12.523	0.7	0.7	OK		
1.006	S1006	5.145	73.543	0.5	4.2	OK		
3.000	RE01	0.000	9.956	0.8	0.6	OK		
4.000	RE02	0.000	8.028	0.9	0.5	OK		
1.007	S1007	0.124	96.343	0.5	5.6	OK		
5.000	S3000	0.000	5.779	0.2	0.3	OK		
5.001	S3001	0.011	12.844	0.4	0.8	OK		
5.002	S3002	0.004	21.833	0.7	1.3	OK		
6.000	S4000	0.005	18.304	0.6	1.1	OK		
1.008	S1008	0.243	144.187	0.8	8.3	OK		
7.000	S5000	0.000	5.780	0.8	0.3	OK		
1.009	S1009	0.429	149.965	0.9	8.7	OK		

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40 Peter Street

Manchester, M2 5GP

Date 20/12/2024 11:43

File SW NETWORK 1 & 2 DRAINA...

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Checked by

Micro Drainage

Network 2020.1.3

Page 154



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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

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

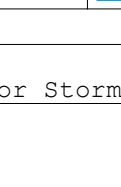
Return Period(s) (years) 1, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	960 minute	1 year Winter I+0%	960	118	29.920	29.022
1.001	S1001	960 minute	1 year Winter I+0%	960	118	29.921	28.960
1.002	S1002	960 minute	1 year Winter I+0%	960	118	29.920	28.875
1.003	S1003	960 minute	1 year Winter I+0%	960	118	29.846	28.848
1.004	S1004	960 minute	1 year Winter I+0%	960	118	29.850	28.781
1.005	S1005 Tank	960 minute	1 year Winter I+0%	960	118	29.350	27.815
2.000	S1200	960 minute	1 year Winter I+0%	960	118	29.350	28.582
1.006	S1006	960 minute	1 year Winter I+0%	960	118	29.350	27.802
3.000	RE01	960 minute	1 year Winter I+0%	960	118	29.859	28.692
4.000	RE02	960 minute	1 year Winter I+0%	960	118	29.902	28.689
1.007	S1007	960 minute	1 year Winter I+0%	960	118	29.905	27.772
5.000	S3000	960 minute	1 year Winter I+0%	960	118	29.950	29.005
5.001	S3001	960 minute	1 year Winter I+0%	960	118	29.916	28.897
5.002	S3002	960 minute	1 year Winter I+0%	960	118	29.887	28.676
6.000	S4000	960 minute	1 year Winter I+0%	960	118	29.850	28.558
1.008	S1008	960 minute	1 year Winter I+0%	960	118	29.874	27.688
7.000	S5000	960 minute	1 year Winter I+0%	960	118	29.836	28.135
1.009	S1009	960 minute	1 year Winter I+0%	960	118	29.874	27.610

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SGi Consulting		Page 156
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
Designed by sgicivils Checked by		
Micro Drainage		Network 2020.1.3

Summary Wizard of 1440 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

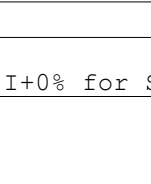
Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 1 year Winter I+0%	1440	120	29.920	29.017
1.001	S1001		1440 minute 1 year Winter I+0%	1440	120	29.921	28.953
1.002	S1002		1440 minute 1 year Winter I+0%	1440	120	29.920	28.872
1.003	S1003		1440 minute 1 year Winter I+0%	1440	120	29.846	28.844
1.004	S1004		1440 minute 1 year Winter I+0%	1440	120	29.850	28.775
1.005	S1005 Tank		1440 minute 1 year Winter I+0%	1440	120	29.350	27.813
2.000	S1200		1440 minute 1 year Winter I+0%	1440	120	29.350	28.580
1.006	S1006		1440 minute 1 year Winter I+0%	1440	120	29.350	27.794
3.000	RE01		1440 minute 1 year Winter I+0%	1440	120	29.859	28.690
4.000	RE02		1440 minute 1 year Winter I+0%	1440	120	29.902	28.687
1.007	S1007		1440 minute 1 year Winter I+0%	1440	120	29.905	27.764
5.000	S3000		1440 minute 1 year Winter I+0%	1440	120	29.950	29.004
5.001	S3001		1440 minute 1 year Winter I+0%	1440	120	29.916	28.894
5.002	S3002		1440 minute 1 year Winter I+0%	1440	120	29.887	28.675
6.000	S4000		1440 minute 1 year Winter I+0%	1440	120	29.850	28.556
1.008	S1008		1440 minute 1 year Winter I+0%	1440	120	29.874	27.680
7.000	S5000		1440 minute 1 year Winter I+0%	1440	120	29.836	28.134
1.009	S1009		1440 minute 1 year Winter I+0%	1440	120	29.874	27.592

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SGi Consulting		Page 158
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
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Micro Drainage		Network 2020.1.3

Summary Wizard of 15 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	2 year Winter I+0%	15	27	29.920	29.086
1.001	S1001	15 minute	2 year Winter I+0%	15	28	29.921	29.027
1.002	S1002	15 minute	2 year Winter I+0%	15	28	29.920	28.966
1.003	S1003	15 minute	2 year Winter I+0%	15	28	29.846	28.945
1.004	S1004	15 minute	2 year Winter I+0%	15	30	29.850	28.892
1.005	S1005 Tank	15 minute	2 year Winter I+0%	15	74	29.350	27.935
2.000	S1200	15 minute	2 year Winter I+0%	15	34	29.350	28.614
1.006	S1006	15 minute	2 year Winter I+0%	15	74	29.350	27.935
3.000	RE01	15 minute	2 year Winter I+0%	15	33	29.859	28.726
4.000	RE02	15 minute	2 year Winter I+0%	15	33	29.902	28.718
1.007	S1007	15 minute	2 year Winter I+0%	15	55	29.905	28.053
5.000	S3000	15 minute	2 year Winter I+0%	15	26	29.950	29.038
5.001	S3001	15 minute	2 year Winter I+0%	15	28	29.916	28.946
5.002	S3002	15 minute	2 year Winter I+0%	15	33	29.887	28.710
6.000	S4000	15 minute	2 year Winter I+0%	15	34	29.850	28.598
1.008	S1008	15 minute	2 year Winter I+0%	15	50	29.874	28.066
7.000	S5000	15 minute	2 year Winter I+0%	15	44	29.836	28.159
1.009	S1009	15 minute	2 year Winter I+0%	15	49	29.874	28.052

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Page 159

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Micro Drainage

Network 2020.1.3

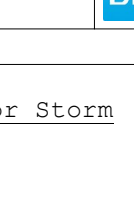
Micro Drainage

Summary Wizard of 15 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Total			Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.214	0.000	0.17					
1.001	S1001	-0.203	0.000	0.23					
1.002	S1002	-0.174	0.000	0.32					
1.003	S1003	-0.165	0.000	0.38					
1.004	S1004	-0.143	0.000	0.54					
1.005	S1005 Tank	-1.076	0.000	0.01					
2.000	S1200	-0.186	0.000	0.07					
1.006	S1006	-0.115	0.000	0.26					
3.000	RE01	-0.104	0.000	0.20					
4.000	RE02	-0.112	0.000	0.15					
1.007	S1007	0.038	0.000	0.23					
5.000	S3000	-0.262	0.000	0.04					
5.001	S3001	-0.239	0.000	0.09					
5.002	S3002	-0.260	0.000	0.04					
6.000	S4000	-0.252	0.000	0.06					
1.008	S1008	0.136	0.000	0.20					
7.000	S5000	-0.121	0.000	0.08					
1.009	S1009	0.332	0.000	0.40					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.023	4.648	0.6	9.7	OK
1.001	S1001	0.241	6.591	0.7	13.2	OK
1.002	S1002	0.421	8.281	0.6	15.8	OK
1.003	S1003	0.208	11.915	0.7	21.8	OK
1.004	S1004	0.581	16.056	0.8	28.5	OK
1.005	S1005 Tank	0.000	16.056	0.2	28.3	OK
2.000	S1200	0.010	3.296	1.5	7.0	OK
1.006	S1006	20.997	16.436	0.5	13.5	OK
3.000	RE01	0.000	2.620	1.3	5.6	OK
4.000	RE02	0.000	2.113	1.3	4.5	OK
1.007	S1007	1.051	22.319	0.5	13.3	SURCHARGED
5.000	S3000	0.009	1.521	0.6	3.3	OK
5.001	S3001	0.063	3.380	0.7	6.5	OK
5.002	S3002	0.067	5.746	2.0	10.8	OK
6.000	S4000	0.049	4.817	1.4	10.3	OK
1.008	S1008	3.176	34.782	0.9	17.0	SURCHARGED
7.000	S5000	0.007	1.521	1.4	3.3	OK
1.009	S1009	2.210	36.114	1.0	16.8	SURCHARGED

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Micro Drainage		Network 2020.1.3

Summary Wizard of 30 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	30 minute	2 year Winter I+0%	30	32	29.920	29.077
1.001	S1001	30 minute	2 year Winter I+0%	30	31	29.921	29.019
1.002	S1002	30 minute	2 year Winter I+0%	30	31	29.920	28.957
1.003	S1003	30 minute	2 year Winter I+0%	30	31	29.846	28.936
1.004	S1004	30 minute	2 year Winter I+0%	30	32	29.850	28.882
1.005	S1005 Tank	30 minute	2 year Winter I+0%	30	64	29.350	27.974
2.000	S1200	30 minute	2 year Winter I+0%	30	37	29.350	28.610
1.006	S1006	30 minute	2 year Winter I+0%	30	64	29.350	27.974
3.000	RE01	30 minute	2 year Winter I+0%	30	36	29.859	28.720
4.000	RE02	30 minute	2 year Winter I+0%	30	36	29.902	28.714
1.007	S1007	30 minute	2 year Winter I+0%	30	57	29.905	28.040
5.000	S3000	30 minute	2 year Winter I+0%	30	31	29.950	29.035
5.001	S3001	30 minute	2 year Winter I+0%	30	31	29.916	28.940
5.002	S3002	30 minute	2 year Winter I+0%	30	35	29.887	28.707
6.000	S4000	30 minute	2 year Winter I+0%	30	37	29.850	28.593
1.008	S1008	30 minute	2 year Winter I+0%	30	56	29.874	28.049
7.000	S5000	30 minute	2 year Winter I+0%	30	46	29.836	28.156
1.009	S1009	30 minute	2 year Winter I+0%	30	56	29.874	28.035

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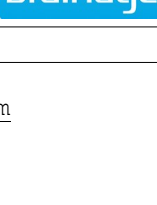
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Network 2020.1.3

Page 162



Summary Wizard of 60 minute 2 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 1

Number of Online Controls 1

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 0.280

Region England and Wales Cv (Summer) 1.000

M5-60 (mm) 19.000 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

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, 2, 5, 30, 100

Climate Change (%) 0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		60 minute 2 year Winter I+0%	60	45	29.920	29.064
1.001	S1001		60 minute 2 year Winter I+0%	60	45	29.921	29.004
1.002	S1002		60 minute 2 year Winter I+0%	60	45	29.920	28.937
1.003	S1003		60 minute 2 year Winter I+0%	60	45	29.846	28.915
1.004	S1004		60 minute 2 year Winter I+0%	60	45	29.850	28.860
1.005	S1005 Tank		60 minute 2 year Winter I+0%	60	60	29.350	27.994
2.000	S1200		60 minute 2 year Winter I+0%	60	48	29.350	28.604
1.006	S1006		60 minute 2 year Winter I+0%	60	60	29.350	27.994
3.000	RE01		60 minute 2 year Winter I+0%	60	46	29.859	28.714
4.000	RE02		60 minute 2 year Winter I+0%	60	46	29.902	28.709
1.007	S1007		60 minute 2 year Winter I+0%	60	64	29.905	27.989
5.000	S3000		60 minute 2 year Winter I+0%	60	45	29.950	29.030
5.001	S3001		60 minute 2 year Winter I+0%	60	45	29.916	28.930
5.002	S3002		60 minute 2 year Winter I+0%	60	46	29.887	28.703
6.000	S4000		60 minute 2 year Winter I+0%	60	48	29.850	28.586
1.008	S1008		60 minute 2 year Winter I+0%	60	59	29.874	27.983
7.000	S5000		60 minute 2 year Winter I+0%	60	55	29.836	28.151
1.009	S1009		60 minute 2 year Winter I+0%	60	59	29.874	27.969

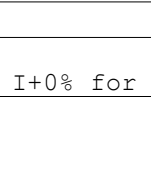
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SGi Consulting		Page 163
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)				Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.236	0.000	0.10					
1.001	S1001	-0.226	0.000	0.14					
1.002	S1002	-0.203	0.000	0.20					
1.003	S1003	-0.195	0.000	0.25					
1.004	S1004	-0.175	0.000	0.36					
1.005	S1005 Tank	-1.017	0.000	0.00					
2.000	S1200	-0.196	0.000	0.04					
1.006	S1006	-0.056	0.000	0.25					
3.000	RE01	-0.116	0.000	0.12					
4.000	RE02	-0.121	0.000	0.08					
1.007	S1007	-0.026	0.000	0.23					
5.000	S3000	-0.270	0.000	0.02					
5.001	S3001	-0.255	0.000	0.06					
5.002	S3002	-0.267	0.000	0.03					
6.000	S4000	-0.264	0.000	0.04					
1.008	S1008	0.053	0.000	0.18					
7.000	S5000	-0.129	0.000	0.05					
1.009	S1009	0.249	0.000	0.37					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum	Pipe	Status
				Velocity (m/s)	Flow (l/s)	
1.000	S1000	0.017	8.444	0.5	5.7	OK
1.001	S1001	0.180	11.975	0.6	8.1	OK
1.002	S1002	0.247	15.045	0.5	10.1	OK
1.003	S1003	0.131	21.646	0.7	14.4	OK
1.004	S1004	0.383	29.169	0.7	19.3	OK
1.005	S1005 Tank	0.000	29.169	0.2	19.3	OK
2.000	S1200	0.007	5.987	1.3	4.1	OK
1.006	S1006	29.410	33.119	0.5	13.3	OK
3.000	RE01	0.000	4.759	1.1	3.2	OK
4.000	RE02	0.000	3.838	1.1	2.6	OK
1.007	S1007	0.843	43.946	0.6	13.4	OK
5.000	S3000	0.007	2.763	0.6	1.9	OK
5.001	S3001	0.046	6.141	0.6	4.1	OK
5.002	S3002	0.053	10.439	1.8	7.0	OK
6.000	S4000	0.035	8.751	1.2	6.0	OK
1.008	S1008	2.709	66.752	0.8	14.9	SURCHARGED
7.000	S5000	0.005	2.763	1.2	1.9	OK
1.009	S1009	2.040	69.394	1.0	15.6	SURCHARGED

SGi Consulting		Page 164
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 120 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	120 minute	2 year Winter I+0%	120	61	29.920	29.051
1.001	S1001	120 minute	2 year Winter I+0%	120	61	29.921	28.991
1.002	S1002	120 minute	2 year Winter I+0%	120	61	29.920	28.918
1.003	S1003	120 minute	2 year Winter I+0%	120	61	29.846	28.894
1.004	S1004	120 minute	2 year Winter I+0%	120	61	29.850	28.835
1.005	S1005 Tank	120 minute	2 year Winter I+0%	120	62	29.350	27.981
2.000	S1200	120 minute	2 year Winter I+0%	120	62	29.350	28.600
1.006	S1006	120 minute	2 year Winter I+0%	120	62	29.350	27.981
3.000	RE01	120 minute	2 year Winter I+0%	120	62	29.859	28.707
4.000	RE02	120 minute	2 year Winter I+0%	120	62	29.902	28.703
1.007	S1007	120 minute	2 year Winter I+0%	120	66	29.905	27.976
5.000	S3000	120 minute	2 year Winter I+0%	120	62	29.950	29.021
5.001	S3001	120 minute	2 year Winter I+0%	120	61	29.916	28.922
5.002	S3002	120 minute	2 year Winter I+0%	120	61	29.887	28.696
6.000	S4000	120 minute	2 year Winter I+0%	120	62	29.850	28.581
1.008	S1008	120 minute	2 year Winter I+0%	120	67	29.874	27.960
7.000	S5000	120 minute	2 year Winter I+0%	120	64	29.836	28.147
1.009	S1009	120 minute	2 year Winter I+0%	120	67	29.874	27.946

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Page 165

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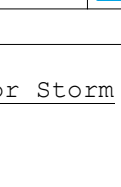
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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
		Depth (m)	Volume (m³)							
1.000	S1000	-0.249	0.000	0.07						
1.001	S1001	-0.239	0.000	0.09						
1.002	S1002	-0.222	0.000	0.14						
1.003	S1003	-0.216	0.000	0.17						
1.004	S1004	-0.200	0.000	0.25						
1.005	S1005 Tank	-1.030	0.000	0.00						
2.000	S1200	-0.200	0.000	0.03						
1.006	S1006	-0.069	0.000	0.21						
3.000	RE01	-0.123	0.000	0.08						
4.000	RE02	-0.127	0.000	0.06						
1.007	S1007	-0.039	0.000	0.21						
5.000	S3000	-0.279	0.000	0.01						
5.001	S3001	-0.263	0.000	0.04						
5.002	S3002	-0.274	0.000	0.02						
6.000	S4000	-0.269	0.000	0.02						
1.008	S1008	0.030	0.000	0.18						
7.000	S5000	-0.133	0.000	0.03						
1.009	S1009	0.226	0.000	0.36						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.013	11.010	0.5	3.8	OK
1.001	S1001	0.147	15.614	0.5	5.4	OK
1.002	S1002	0.194	19.617	0.5	6.8	OK
1.003	S1003	0.103	28.225	0.6	9.7	OK
1.004	S1004	0.249	38.034	0.6	13.1	OK
1.005	S1005 Tank	0.000	38.034	0.1	13.1	OK
2.000	S1200	0.006	7.807	1.3	2.7	OK
1.006	S1006	27.514	45.666	0.5	11.2	OK
3.000	RE01	0.000	6.206	1.0	2.2	OK
4.000	RE02	0.000	5.004	1.0	1.7	OK
1.007	S1007	0.790	59.872	0.6	12.0	OK
5.000	S3000	0.005	3.603	0.6	1.3	OK
5.001	S3001	0.036	8.007	0.5	2.8	OK
5.002	S3002	0.041	13.611	1.8	4.7	OK
6.000	S4000	0.030	11.410	1.2	4.0	OK
1.008	S1008	2.572	89.690	0.8	14.7	SURCHARGED
7.000	S5000	0.004	3.603	1.1	1.3	OK
1.009	S1009	1.992	93.264	1.0	15.3	SURCHARGED

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SGi Consulting		Page 166
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 180 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

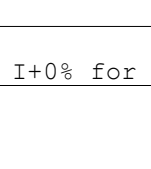
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	180 minute	2 year Winter I+0%	180	75	29.920	29.044
1.001	S1001	180 minute	2 year Winter I+0%	180	75	29.921	28.983
1.002	S1002	180 minute	2 year Winter I+0%	180	75	29.920	28.908
1.003	S1003	180 minute	2 year Winter I+0%	180	75	29.846	28.883
1.004	S1004	180 minute	2 year Winter I+0%	180	75	29.850	28.824
1.005	S1005 Tank	180 minute	2 year Winter I+0%	180	67	29.350	27.950
2.000	S1200	180 minute	2 year Winter I+0%	180	75	29.350	28.598
1.006	S1006	180 minute	2 year Winter I+0%	180	67	29.350	27.950
3.000	RE01	180 minute	2 year Winter I+0%	180	75	29.859	28.704
4.000	RE02	180 minute	2 year Winter I+0%	180	75	29.902	28.700
1.007	S1007	180 minute	2 year Winter I+0%	180	72	29.905	27.946
5.000	S3000	180 minute	2 year Winter I+0%	180	75	29.950	29.016
5.001	S3001	180 minute	2 year Winter I+0%	180	75	29.916	28.919
5.002	S3002	180 minute	2 year Winter I+0%	180	75	29.887	28.690
6.000	S4000	180 minute	2 year Winter I+0%	180	75	29.850	28.576
1.008	S1008	180 minute	2 year Winter I+0%	180	73	29.874	27.935
7.000	S5000	180 minute	2 year Winter I+0%	180	75	29.836	28.146
1.009	S1009	180 minute	2 year Winter I+0%	180	73	29.874	27.921

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP									
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...				Designed by sgicivils Checked by					
Micro Drainage				Network 2020.1.3					
Summary Wizard of 180 minute 2 year Winter I+0% for Storm									

SGi Consulting		Page 168
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 240 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

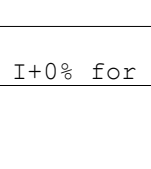
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	240 minute	2 year Winter I+0%	240	80	29.920	29.040
1.001	S1001	240 minute	2 year Winter I+0%	240	80	29.921	28.978
1.002	S1002	240 minute	2 year Winter I+0%	240	80	29.920	28.902
1.003	S1003	240 minute	2 year Winter I+0%	240	80	29.846	28.877
1.004	S1004	240 minute	2 year Winter I+0%	240	80	29.850	28.815
1.005	S1005 Tank	240 minute	2 year Winter I+0%	240	78	29.350	27.919
2.000	S1200	240 minute	2 year Winter I+0%	240	80	29.350	28.594
1.006	S1006	240 minute	2 year Winter I+0%	240	78	29.350	27.919
3.000	RE01	240 minute	2 year Winter I+0%	240	80	29.859	28.701
4.000	RE02	240 minute	2 year Winter I+0%	240	80	29.902	28.698
1.007	S1007	240 minute	2 year Winter I+0%	240	82	29.905	27.915
5.000	S3000	240 minute	2 year Winter I+0%	240	80	29.950	29.014
5.001	S3001	240 minute	2 year Winter I+0%	240	80	29.916	28.917
5.002	S3002	240 minute	2 year Winter I+0%	240	80	29.887	28.687
6.000	S4000	240 minute	2 year Winter I+0%	240	80	29.850	28.572
1.008	S1008	240 minute	2 year Winter I+0%	240	82	29.874	27.905
7.000	S5000	240 minute	2 year Winter I+0%	240	80	29.836	28.145
1.009	S1009	240 minute	2 year Winter I+0%	240	82	29.874	27.879

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<u>Summary Wizard of 240 minute 2 year Winter I+0% for Storm</u>									

SGi Consulting		Page 170
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Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 360 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	360 minute	2 year Winter I+0%	360	94	29.920	29.036
1.001	S1001	360 minute	2 year Winter I+0%	360	94	29.921	28.971
1.002	S1002	360 minute	2 year Winter I+0%	360	94	29.920	28.894
1.003	S1003	360 minute	2 year Winter I+0%	360	94	29.846	28.869
1.004	S1004	360 minute	2 year Winter I+0%	360	94	29.850	28.805
1.005	S1005 Tank	360 minute	2 year Winter I+0%	360	93	29.350	27.867
2.000	S1200	360 minute	2 year Winter I+0%	360	94	29.350	28.590
1.006	S1006	360 minute	2 year Winter I+0%	360	93	29.350	27.867
3.000	RE01	360 minute	2 year Winter I+0%	360	94	29.859	28.699
4.000	RE02	360 minute	2 year Winter I+0%	360	94	29.902	28.697
1.007	S1007	360 minute	2 year Winter I+0%	360	93	29.905	27.862
5.000	S3000	360 minute	2 year Winter I+0%	360	94	29.950	29.011
5.001	S3001	360 minute	2 year Winter I+0%	360	94	29.916	28.912
5.002	S3002	360 minute	2 year Winter I+0%	360	94	29.887	28.683
6.000	S4000	360 minute	2 year Winter I+0%	360	94	29.850	28.567
1.008	S1008	360 minute	2 year Winter I+0%	360	93	29.874	27.852
7.000	S5000	360 minute	2 year Winter I+0%	360	94	29.836	28.142
1.009	S1009	360 minute	2 year Winter I+0%	360	93	29.874	27.839

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Page 171

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

Surcharged Flooded					Total				Level
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Exceeded
1.000	S1000	-0.264	0.000	0.03					
1.001	S1001	-0.259	0.000	0.05					
1.002	S1002	-0.246	0.000	0.07					
1.003	S1003	-0.241	0.000	0.09					
1.004	S1004	-0.230	0.000	0.12					
1.005	S1005 Tank	-1.144	0.000	0.00					
2.000	S1200	-0.210	0.000	0.01					
1.006	S1006	-0.183	0.000	0.14					
3.000	RE01	-0.131	0.000	0.04					
4.000	RE02	-0.133	0.000	0.03					
1.007	S1007	-0.153	0.000	0.16					
5.000	S3000	-0.289	0.000	0.01					
5.001	S3001	-0.273	0.000	0.02					
5.002	S3002	-0.287	0.000	0.01					
6.000	S4000	-0.283	0.000	0.01					
1.008	S1008	-0.078	0.000	0.16					
7.000	S5000	-0.138	0.000	0.02					
1.009	S1009	0.119	0.000	0.32					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.009	16.437	0.4	1.9	OK
1.001	S1001	0.095	23.310	0.5	2.7	OK
1.002	S1002	0.130	29.287	0.4	3.4	OK
1.003	S1003	0.070	42.137	0.5	4.9	OK
1.004	S1004	0.169	56.781	0.5	6.6	OK
1.005	S1005 Tank	0.000	56.781	0.1	6.6	OK
2.000	S1200	0.003	11.654	1.3	1.4	OK
1.006	S1006	11.470	68.435	0.5	7.6	OK
3.000	RE01	0.000	9.264	0.8	1.1	OK
4.000	RE02	0.000	7.471	0.9	0.9	OK
1.007	S1007	0.363	89.652	0.6	9.2	OK
5.000	S3000	0.002	5.379	0.3	0.6	OK
5.001	S3001	0.025	11.953	0.5	1.4	OK
5.002	S3002	0.016	20.319	1.3	2.4	OK
6.000	S4000	0.013	17.034	1.1	2.0	OK
1.008	S1008	1.550	134.177	0.8	12.9	OK
7.000	S5000	0.002	5.379	1.1	0.6	OK
1.009	S1009	1.650	139.554	1.0	13.5	SURCHARGED

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 480 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 2 year Winter I+0%	480	101	29.920	29.033
1.001	S1001		480 minute 2 year Winter I+0%	480	101	29.921	28.968
1.002	S1002		480 minute 2 year Winter I+0%	480	101	29.920	28.888
1.003	S1003		480 minute 2 year Winter I+0%	480	101	29.846	28.862
1.004	S1004		480 minute 2 year Winter I+0%	480	101	29.850	28.799
1.005	S1005 Tank		480 minute 2 year Winter I+0%	480	100	29.350	27.834
2.000	S1200		480 minute 2 year Winter I+0%	480	101	29.350	28.587
1.006	S1006		480 minute 2 year Winter I+0%	480	100	29.350	27.832
3.000	RE01		480 minute 2 year Winter I+0%	480	101	29.859	28.697
4.000	RE02		480 minute 2 year Winter I+0%	480	101	29.902	28.695
1.007	S1007		480 minute 2 year Winter I+0%	480	100	29.905	27.818
5.000	S3000		480 minute 2 year Winter I+0%	480	101	29.950	29.009
5.001	S3001		480 minute 2 year Winter I+0%	480	101	29.916	28.907
5.002	S3002		480 minute 2 year Winter I+0%	480	101	29.887	28.681
6.000	S4000		480 minute 2 year Winter I+0%	480	101	29.850	28.564
1.008	S1008		480 minute 2 year Winter I+0%	480	100	29.874	27.799
7.000	S5000		480 minute 2 year Winter I+0%	480	101	29.836	28.140
1.009	S1009		480 minute 2 year Winter I+0%	480	100	29.874	27.787

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Page 173

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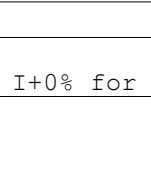
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Summary Wizard of 480 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Overflow Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.267	0.000		0.03					
1.001	S1001	-0.262	0.000		0.04					
1.002	S1002	-0.252	0.000		0.06					
1.003	S1003	-0.248	0.000		0.07					
1.004	S1004	-0.236	0.000		0.10					
1.005	S1005 Tank	-1.177	0.000		0.00					
2.000	S1200	-0.213	0.000		0.01					
1.006	S1006	-0.218	0.000		0.12					
3.000	RE01	-0.133	0.000		0.03					
4.000	RE02	-0.135	0.000		0.02					
1.007	S1007	-0.197	0.000		0.14					
5.000	S3000	-0.291	0.000		0.01					
5.001	S3001	-0.278	0.000		0.02					
5.002	S3002	-0.289	0.000		0.01					
6.000	S4000	-0.286	0.000		0.01					
1.008	S1008	-0.131	0.000		0.14					
7.000	S5000	-0.140	0.000		0.01					
1.009	S1009	0.067	0.000		0.30					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.008	18.202	0.4	1.6	OK
1.001	S1001	0.086	25.814	0.4	2.3	OK
1.002	S1002	0.114	32.432	0.4	2.8	OK
1.003	S1003	0.062	46.663	0.5	4.1	OK
1.004	S1004	0.154	62.879	0.5	5.5	OK
1.005	S1005 Tank	0.000	62.879	0.1	5.5	OK
2.000	S1200	0.002	12.906	1.1	1.1	OK
1.006	S1006	7.608	75.785	0.5	6.2	OK
3.000	RE01	0.000	10.259	0.8	0.9	OK
4.000	RE02	0.000	8.273	0.9	0.7	OK
1.007	S1007	0.211	99.281	0.6	8.0	OK
5.000	S3000	0.001	5.956	0.3	0.5	OK
5.001	S3001	0.020	13.236	0.5	1.2	OK
5.002	S3002	0.012	22.501	1.1	2.0	OK
6.000	S4000	0.010	18.863	0.9	1.7	OK
1.008	S1008	1.029	148.586	0.8	12.0	OK
7.000	S5000	0.001	5.956	1.1	0.5	OK
1.009	S1009	1.409	154.540	1.0	12.5	SURCHARGED

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SGi Consulting		Page 174
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 600 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	600 minute	2 year Winter I+0%	600	106	29.920	29.032
1.001	S1001	600 minute	2 year Winter I+0%	600	106	29.921	28.966
1.002	S1002	600 minute	2 year Winter I+0%	600	106	29.920	28.884
1.003	S1003	600 minute	2 year Winter I+0%	600	106	29.846	28.858
1.004	S1004	600 minute	2 year Winter I+0%	600	106	29.850	28.795
1.005	S1005 Tank	600 minute	2 year Winter I+0%	600	106	29.350	27.822
2.000	S1200	600 minute	2 year Winter I+0%	600	106	29.350	28.586
1.006	S1006	600 minute	2 year Winter I+0%	600	106	29.350	27.817
3.000	RE01	600 minute	2 year Winter I+0%	600	106	29.859	28.696
4.000	RE02	600 minute	2 year Winter I+0%	600	106	29.902	28.694
1.007	S1007	600 minute	2 year Winter I+0%	600	106	29.905	27.789
5.000	S3000	600 minute	2 year Winter I+0%	600	106	29.950	29.008
5.001	S3001	600 minute	2 year Winter I+0%	600	106	29.916	28.904
5.002	S3002	600 minute	2 year Winter I+0%	600	106	29.887	28.680
6.000	S4000	600 minute	2 year Winter I+0%	600	106	29.850	28.562
1.008	S1008	600 minute	2 year Winter I+0%	600	106	29.874	27.739
7.000	S5000	600 minute	2 year Winter I+0%	600	106	29.836	28.138
1.009	S1009	600 minute	2 year Winter I+0%	600	106	29.874	27.727

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Page 175

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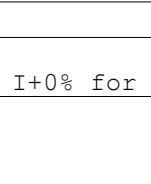


Summary Wizard of 600 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
		Depth (m)	Volume (m³)							
1.000	S1000	-0.268	0.000	0.02						
1.001	S1001	-0.264	0.000	0.03						
1.002	S1002	-0.256	0.000	0.05						
1.003	S1003	-0.252	0.000	0.06						
1.004	S1004	-0.240	0.000	0.09						
1.005	S1005 Tank	-1.189	0.000	0.00						
2.000	S1200	-0.214	0.000	0.01						
1.006	S1006	-0.233	0.000	0.11						
3.000	RE01	-0.134	0.000	0.03						
4.000	RE02	-0.136	0.000	0.02						
1.007	S1007	-0.226	0.000	0.13						
5.000	S3000	-0.292	0.000	0.01						
5.001	S3001	-0.281	0.000	0.01						
5.002	S3002	-0.290	0.000	0.01						
6.000	S4000	-0.288	0.000	0.01						
1.008	S1008	-0.191	0.000	0.13						
7.000	S5000	-0.142	0.000	0.01						
1.009	S1009	0.007	0.000	0.27						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.008	19.700	0.4	1.4	OK
1.001	S1001	0.080	27.938	0.4	2.0	OK
1.002	S1002	0.104	35.101	0.4	2.5	OK
1.003	S1003	0.056	50.503	0.5	3.5	OK
1.004	S1004	0.144	68.054	0.5	4.8	OK
1.005	S1005 Tank	0.000	68.054	0.1	4.8	OK
2.000	S1200	0.002	13.968	1.0	1.0	OK
1.006	S1006	6.057	82.021	0.5	5.7	OK
3.000	RE01	0.000	11.103	0.8	0.8	OK
4.000	RE02	0.000	8.954	0.9	0.6	OK
1.007	S1007	0.150	107.451	0.6	7.5	OK
5.000	S3000	0.001	6.446	0.3	0.5	OK
5.001	S3001	0.016	14.325	0.5	1.0	OK
5.002	S3002	0.009	24.352	1.0	1.7	OK
6.000	S4000	0.008	20.415	0.8	1.4	OK
1.008	S1008	0.453	160.813	0.8	11.1	OK
7.000	S5000	0.001	6.446	1.0	0.5	OK
1.009	S1009	1.020	167.257	0.9	11.3	SURCHARGED

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Summary Wizard of 720 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		720 minute 2 year Winter I+0%	720	110	29.920	29.030
1.001	S1001		720 minute 2 year Winter I+0%	720	110	29.921	28.964
1.002	S1002		720 minute 2 year Winter I+0%	720	110	29.920	28.881
1.003	S1003		720 minute 2 year Winter I+0%	720	110	29.846	28.855
1.004	S1004		720 minute 2 year Winter I+0%	720	110	29.850	28.791
1.005	S1005 Tank		720 minute 2 year Winter I+0%	720	111	29.350	27.820
2.000	S1200		720 minute 2 year Winter I+0%	720	110	29.350	28.584
1.006	S1006		720 minute 2 year Winter I+0%	720	111	29.350	27.813
3.000	RE01		720 minute 2 year Winter I+0%	720	110	29.859	28.696
4.000	RE02		720 minute 2 year Winter I+0%	720	110	29.902	28.693
1.007	S1007		720 minute 2 year Winter I+0%	720	111	29.905	27.782
5.000	S3000		720 minute 2 year Winter I+0%	720	110	29.950	29.007
5.001	S3001		720 minute 2 year Winter I+0%	720	110	29.916	28.902
5.002	S3002		720 minute 2 year Winter I+0%	720	110	29.887	28.678
6.000	S4000		720 minute 2 year Winter I+0%	720	110	29.850	28.561
1.008	S1008		720 minute 2 year Winter I+0%	720	111	29.874	27.701
7.000	S5000		720 minute 2 year Winter I+0%	720	110	29.836	28.137
1.009	S1009		720 minute 2 year Winter I+0%	720	111	29.874	27.650

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Page 177

4th Floor, Colchester House
40 Peter Street
Manchester, M2 5GP



Date 20/12/2024 11:43
File SW NETWORK 1 & 2 DRAINA...

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Checked by

Micro Drainage

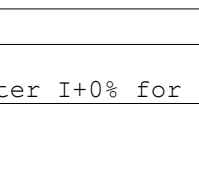
Network 2020.1.3

Summary Wizard of 720 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)		
1.000	S1000	-0.270	0.000		0.02					
1.001	S1001	-0.266	0.000		0.03					
1.002	S1002	-0.259	0.000		0.04					
1.003	S1003	-0.255	0.000		0.06					
1.004	S1004	-0.244	0.000		0.08					
1.005	S1005 Tank	-1.191	0.000		0.00					
2.000	S1200	-0.216	0.000		0.01					
1.006	S1006	-0.237	0.000		0.10					
3.000	RE01	-0.134	0.000		0.02					
4.000	RE02	-0.137	0.000		0.02					
1.007	S1007	-0.233	0.000		0.12					
5.000	S3000	-0.293	0.000		0.00					
5.001	S3001	-0.283	0.000		0.01					
5.002	S3002	-0.292	0.000		0.01					
6.000	S4000	-0.289	0.000		0.01					
1.008	S1008	-0.229	0.000		0.12					
7.000	S5000	-0.143	0.000		0.01					
1.009	S1009	-0.070	0.000		0.25					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.007	21.015	0.4	1.2	OK
1.001	S1001	0.076	29.803	0.4	1.7	OK
1.002	S1002	0.097	37.445	0.4	2.2	OK
1.003	S1003	0.052	53.875	0.5	3.2	OK
1.004	S1004	0.133	72.598	0.5	4.3	OK
1.005	S1005 Tank	0.000	72.598	0.1	4.3	OK
2.000	S1200	0.001	14.900	0.9	0.9	OK
1.006	S1006	5.679	87.498	0.5	5.1	OK
3.000	RE01	0.000	11.845	0.8	0.7	OK
4.000	RE02	0.000	9.552	0.9	0.6	OK
1.007	S1007	0.135	114.625	0.6	6.7	OK
5.000	S3000	0.001	6.876	0.2	0.4	OK
5.001	S3001	0.014	15.281	0.5	0.9	OK
5.002	S3002	0.007	25.977	0.8	1.5	OK
6.000	S4000	0.007	21.777	0.7	1.3	OK
1.008	S1008	0.277	171.549	0.8	10.0	OK
7.000	S5000	0.001	6.877	0.9	0.4	OK
1.009	S1009	0.566	178.424	0.9	10.4	OK

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 960 minute 2 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	960 minute	2 year Winter I+0%	960	116	29.920	29.026
1.001	S1001	960 minute	2 year Winter I+0%	960	116	29.921	28.962
1.002	S1002	960 minute	2 year Winter I+0%	960	116	29.920	28.878
1.003	S1003	960 minute	2 year Winter I+0%	960	116	29.846	28.851
1.004	S1004	960 minute	2 year Winter I+0%	960	116	29.850	28.785
1.005	S1005 Tank	960 minute	2 year Winter I+0%	960	116	29.350	27.817
2.000	S1200	960 minute	2 year Winter I+0%	960	116	29.350	28.583
1.006	S1006	960 minute	2 year Winter I+0%	960	116	29.350	27.807
3.000	RE01	960 minute	2 year Winter I+0%	960	116	29.859	28.695
4.000	RE02	960 minute	2 year Winter I+0%	960	116	29.902	28.691
1.007	S1007	960 minute	2 year Winter I+0%	960	116	29.905	27.777
5.000	S3000	960 minute	2 year Winter I+0%	960	116	29.950	29.006
5.001	S3001	960 minute	2 year Winter I+0%	960	116	29.916	28.899
5.002	S3002	960 minute	2 year Winter I+0%	960	116	29.887	28.677
6.000	S4000	960 minute	2 year Winter I+0%	960	116	29.850	28.559
1.008	S1008	960 minute	2 year Winter I+0%	960	116	29.874	27.693
7.000	S5000	960 minute	2 year Winter I+0%	960	116	29.836	28.136
1.009	S1009	960 minute	2 year Winter I+0%	960	116	29.874	27.626

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<table><tr><th colspan="5">Surcharged Flooded</th><th colspan="5">Total</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap.</th><th>Overflow (l/s)</th><th>Overflow Act.</th><th>Overflow Vol (m³)</th><th>Overflow Vol (m³)</th><th>Level Exceeded</th></tr><tr><td>1.000</td><td>S1000</td><td>-0.274</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.001</td><td>S1001</td><td>-0.268</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.002</td><td>S1002</td><td>-0.262</td><td>0.000</td><td>0.04</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.003</td><td>S1003</td><td>-0.259</td><td>0.000</td><td>0.05</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.004</td><td>S1004</td><td>-0.250</td><td>0.000</td><td>0.07</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>-1.194</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2.000</td><td>S1200</td><td>-0.217</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.006</td><td>S1006</td><td>-0.243</td><td>0.000</td><td>0.08</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3.000</td><td>RE01</td><td>-0.135</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4.000</td><td>RE02</td><td>-0.139</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.007</td><td>S1007</td><td>-0.238</td><td>0.000</td><td>0.10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.000</td><td>S3000</td><td>-0.294</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.001</td><td>S3001</td><td>-0.286</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.002</td><td>S3002</td><td>-0.293</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6.000</td><td>S4000</td><td>-0.291</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.008</td><td>S1008</td><td>-0.237</td><td>0.000</td><td>0.10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7.000</td><td>S5000</td><td>-0.144</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.009</td><td>S1009</td><td>-0.094</td><td>0.000</td><td>0.21</td><td></td><td></td><td></td><td></td><td></td></tr></table>										Surcharged Flooded					Total					PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	1.000	S1000	-0.274	0.000	0.02						1.001	S1001	-0.268	0.000	0.02						1.002	S1002	-0.262	0.000	0.04						1.003	S1003	-0.259	0.000	0.05						1.004	S1004	-0.250	0.000	0.07						1.005	S1005 Tank	-1.194	0.000	0.00						2.000	S1200	-0.217	0.000	0.01						1.006	S1006	-0.243	0.000	0.08						3.000	RE01	-0.135	0.000	0.02						4.000	RE02	-0.139	0.000	0.01						1.007	S1007	-0.238	0.000	0.10						5.000	S3000	-0.294	0.000	0.00						5.001	S3001	-0.286	0.000	0.01						5.002	S3002	-0.293	0.000	0.00						6.000	S4000	-0.291	0.000	0.01						1.008	S1008	-0.237	0.000	0.10						7.000	S5000	-0.144	0.000	0.01						1.009	S1009	-0.094	0.000	0.21					
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5.002	S3002	0.004	28.769	0.7	1.3	OK																																																																																																																																																																																																											
6.000	S4000	0.004	24.118	0.6	1.1	OK																																																																																																																																																																																																											
1.008	S1008	0.243	189.993	0.8	8.3	OK																																																																																																																																																																																																											
7.000	S5000	0.000	7.615	0.7	0.3	OK																																																																																																																																																																																																											
1.009	S1009	0.426	197.606	0.9	8.6	OK																																																																																																																																																																																																											
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Page 181

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Micro Drainage

Network 2020.1.3

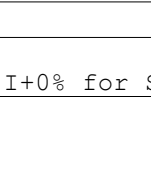
Micro Drainage

Summary Wizard of 1440 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
		Depth (m)	Volume (m³)							
1.000	S1000	-0.280	0.000	0.01						
1.001	S1001	-0.273	0.000	0.02						
1.002	S1002	-0.266	0.000	0.03						
1.003	S1003	-0.264	0.000	0.04						
1.004	S1004	-0.257	0.000	0.05						
1.005	S1005 Tank	-1.197	0.000	0.00						
2.000	S1200	-0.219	0.000	0.01						
1.006	S1006	-0.251	0.000	0.06						
3.000	RE01	-0.139	0.000	0.02						
4.000	RE02	-0.142	0.000	0.01						
1.007	S1007	-0.246	0.000	0.07						
5.000	S3000	-0.296	0.000	0.00						
5.001	S3001	-0.289	0.000	0.01						
5.002	S3002	-0.295	0.000	0.00						
6.000	S4000	-0.293	0.000	0.00						
1.008	S1008	-0.245	0.000	0.08						
7.000	S5000	-0.145	0.000	0.01						
1.009	S1009	-0.117	0.000	0.16						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.004	26.848	0.4	0.8	OK
1.001	S1001	0.058	38.075	0.4	1.1	OK
1.002	S1002	0.076	47.837	0.3	1.4	OK
1.003	S1003	0.041	68.827	0.4	2.0	OK
1.004	S1004	0.100	92.746	0.4	2.7	OK
1.005	S1005 Tank	0.000	92.746	0.1	2.7	OK
2.000	S1200	0.000	19.032	0.6	0.6	OK
1.006	S1006	4.301	111.778	0.4	3.3	OK
3.000	RE01	0.000	15.132	0.8	0.4	OK
4.000	RE02	0.000	12.201	0.8	0.4	OK
1.007	S1007	0.105	146.433	0.5	4.3	OK
5.000	S3000	0.000	8.784	0.1	0.3	OK
5.001	S3001	0.007	19.520	0.3	0.6	OK
5.002	S3002	0.001	33.183	0.5	1.0	OK
6.000	S4000	0.002	27.817	0.5	0.8	OK
1.008	S1008	0.208	219.147	0.7	6.4	OK
7.000	S5000	0.000	8.784	0.6	0.3	OK
1.009	S1009	0.296	227.929	0.8	6.7	OK

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE...			
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Summary Wizard of 15 minute 5 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

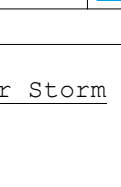
Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	5 year Winter I+0%	15	19	29.920	29.099
1.001	S1001	15 minute	5 year Winter I+0%	15	20	29.921	29.044
1.002	S1002	15 minute	5 year Winter I+0%	15	21	29.920	28.989
1.003	S1003	15 minute	5 year Winter I+0%	15	21	29.846	28.969
1.004	S1004	15 minute	5 year Winter I+0%	15	22	29.850	28.919
1.005	S1005 Tank	15 minute	5 year Winter I+0%	15	59	29.350	28.000
2.000	S1200	15 minute	5 year Winter I+0%	15	26	29.350	28.621
1.006	S1006	15 minute	5 year Winter I+0%	15	59	29.350	28.000
3.000	RE01	15 minute	5 year Winter I+0%	15	25	29.859	28.732
4.000	RE02	15 minute	5 year Winter I+0%	15	25	29.902	28.724
1.007	S1007	15 minute	5 year Winter I+0%	15	44	29.905	28.088
5.000	S3000	15 minute	5 year Winter I+0%	15	18	29.950	29.043
5.001	S3001	15 minute	5 year Winter I+0%	15	21	29.916	28.953
5.002	S3002	15 minute	5 year Winter I+0%	15	26	29.887	28.715
6.000	S4000	15 minute	5 year Winter I+0%	15	26	29.850	28.606
1.008	S1008	15 minute	5 year Winter I+0%	15	40	29.874	28.150
7.000	S5000	15 minute	5 year Winter I+0%	15	39	29.836	28.164
1.009	S1009	15 minute	5 year Winter I+0%	15	40	29.874	28.142

SGi Consulting		Page 186
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE...	Designed by sgicivils Checked by	
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Summary Wizard of 60 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

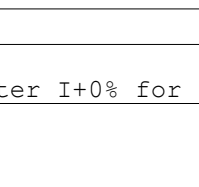
PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	60 minute	5 year Winter I+0%	60	36	29.920	29.073
1.001	S1001	60 minute	5 year Winter I+0%	60	37	29.921	29.014
1.002	S1002	60 minute	5 year Winter I+0%	60	34	29.920	28.952
1.003	S1003	60 minute	5 year Winter I+0%	60	34	29.846	28.931
1.004	S1004	60 minute	5 year Winter I+0%	60	35	29.850	28.877
1.005	S1005 Tank	60 minute	5 year Winter I+0%	60	44	29.350	28.084
2.000	S1200	60 minute	5 year Winter I+0%	60	41	29.350	28.608
1.006	S1006	60 minute	5 year Winter I+0%	60	44	29.350	28.084
3.000	RE01	60 minute	5 year Winter I+0%	60	40	29.859	28.718
4.000	RE02	60 minute	5 year Winter I+0%	60	40	29.902	28.712
1.007	S1007	60 minute	5 year Winter I+0%	60	47	29.905	28.078
5.000	S3000	60 minute	5 year Winter I+0%	60	36	29.950	29.033
5.001	S3001	60 minute	5 year Winter I+0%	60	36	29.916	28.937
5.002	S3002	60 minute	5 year Winter I+0%	60	39	29.887	28.706
6.000	S4000	60 minute	5 year Winter I+0%	60	41	29.850	28.591
1.008	S1008	60 minute	5 year Winter I+0%	60	51	29.874	28.066
7.000	S5000	60 minute	5 year Winter I+0%	60	50	29.836	28.154
1.009	S1009	60 minute	5 year Winter I+0%	60	51	29.874	28.050

SGi Consulting		Page 187
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAINA...	Checked by	
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Summary Wizard of 60 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.227	0.000	0.13					
1.001	S1001	-0.216	0.000	0.17					
1.002	S1002	-0.188	0.000	0.26					
1.003	S1003	-0.179	0.000	0.32					
1.004	S1004	-0.158	0.000	0.46					
1.005	S1005 Tank	-0.927	0.000	0.01					
2.000	S1200	-0.192	0.000	0.05					
1.006	S1006	0.034	0.000	0.29					
3.000	RE01	-0.112	0.000	0.15					
4.000	RE02	-0.118	0.000	0.11					
1.007	S1007	0.063	0.000	0.26					
5.000	S3000	-0.267	0.000	0.03					
5.001	S3001	-0.248	0.000	0.07					
5.002	S3002	-0.264	0.000	0.03					
6.000	S4000	-0.259	0.000	0.04					
1.008	S1008	0.136	0.000	0.20					
7.000	S5000	-0.126	0.000	0.06					
1.009	S1009	0.330	0.000	0.40					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Vol (m³)	Vol (m³)			
1.000	S1000	0.019	10.713	0.6	7.3	OK
1.001	S1001	0.208	15.192	0.6	10.2	OK
1.002	S1002	0.319	19.088	0.5	12.7	OK
1.003	S1003	0.172	27.463	0.7	18.2	OK
1.004	S1004	0.493	37.007	0.7	24.4	OK
1.005	S1005 Tank	0.000	37.007	0.2	24.3	OK
2.000	S1200	0.008	7.596	1.4	5.2	OK
1.006	S1006	42.028	41.294	0.5	15.2	SURCHARGED
3.000	RE01	0.000	6.038	1.2	4.1	OK
4.000	RE02	0.000	4.869	1.2	3.3	OK
1.007	S1007	1.118	54.979	0.6	15.2	SURCHARGED
5.000	S3000	0.008	3.506	0.6	2.4	OK
5.001	S3001	0.053	7.791	0.6	5.2	OK
5.002	S3002	0.060	13.244	1.8	8.8	OK
6.000	S4000	0.040	11.102	1.3	7.6	OK
1.008	S1008	3.175	83.855	0.8	16.4	SURCHARGED
7.000	S5000	0.005	3.506	1.3	2.4	OK
1.009	S1009	2.206	87.134	1.0	16.9	SURCHARGED

SGi Consulting		Page 188
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 120 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

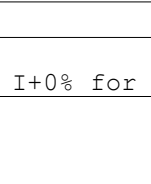
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	120 minute	5 year Winter I+0%	120	52	29.920	29.059
1.001	S1001	120 minute	5 year Winter I+0%	120	52	29.921	28.998
1.002	S1002	120 minute	5 year Winter I+0%	120	52	29.920	28.929
1.003	S1003	120 minute	5 year Winter I+0%	120	52	29.846	28.906
1.004	S1004	120 minute	5 year Winter I+0%	120	52	29.850	28.849
1.005	S1005 Tank	120 minute	5 year Winter I+0%	120	46	29.350	28.074
2.000	S1200	120 minute	5 year Winter I+0%	120	53	29.350	28.602
1.006	S1006	120 minute	5 year Winter I+0%	120	46	29.350	28.074
3.000	RE01	120 minute	5 year Winter I+0%	120	52	29.859	28.711
4.000	RE02	120 minute	5 year Winter I+0%	120	52	29.902	28.706
1.007	S1007	120 minute	5 year Winter I+0%	120	50	29.905	28.069
5.000	S3000	120 minute	5 year Winter I+0%	120	52	29.950	29.026
5.001	S3001	120 minute	5 year Winter I+0%	120	52	29.916	28.927
5.002	S3002	120 minute	5 year Winter I+0%	120	52	29.887	28.701
6.000	S4000	120 minute	5 year Winter I+0%	120	53	29.850	28.584
1.008	S1008	120 minute	5 year Winter I+0%	120	54	29.874	28.058
7.000	S5000	120 minute	5 year Winter I+0%	120	58	29.836	28.149
1.009	S1009	120 minute	5 year Winter I+0%	120	54	29.874	28.042

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP									
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...				Designed by sgicivils Checked by					
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<u>Summary Wizard of 180 minute 5 year Winter I+0% for Storm</u>									

SGi Consulting		Page 192
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 240 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	240 minute	5 year Winter I+0%	240	73	29.920	29.045
1.001	S1001	240 minute	5 year Winter I+0%	240	72	29.921	28.984
1.002	S1002	240 minute	5 year Winter I+0%	240	72	29.920	28.909
1.003	S1003	240 minute	5 year Winter I+0%	240	72	29.846	28.885
1.004	S1004	240 minute	5 year Winter I+0%	240	72	29.850	28.825
1.005	S1005 Tank	240 minute	5 year Winter I+0%	240	56	29.350	28.003
2.000	S1200	240 minute	5 year Winter I+0%	240	73	29.350	28.598
1.006	S1006	240 minute	5 year Winter I+0%	240	56	29.350	28.003
3.000	RE01	240 minute	5 year Winter I+0%	240	73	29.859	28.704
4.000	RE02	240 minute	5 year Winter I+0%	240	73	29.902	28.700
1.007	S1007	240 minute	5 year Winter I+0%	240	63	29.905	27.998
5.000	S3000	240 minute	5 year Winter I+0%	240	73	29.950	29.017
5.001	S3001	240 minute	5 year Winter I+0%	240	72	29.916	28.919
5.002	S3002	240 minute	5 year Winter I+0%	240	72	29.887	28.691
6.000	S4000	240 minute	5 year Winter I+0%	240	73	29.850	28.577
1.008	S1008	240 minute	5 year Winter I+0%	240	64	29.874	27.975
7.000	S5000	240 minute	5 year Winter I+0%	240	73	29.836	28.146
1.009	S1009	240 minute	5 year Winter I+0%	240	64	29.874	27.961

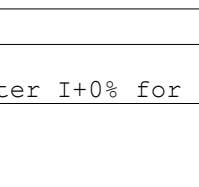
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SGi Consulting		Page 193
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAIN...	Checked by	
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Summary Wizard of 240 minute 5 year Winter I+0% for Storm

		Surcharged	Flooded	Total					
	US/MH	Depth	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level
PN	Name	(m)	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol (m³)	Exceeded
1.000	S1000	-0.255	0.000	0.05					
1.001	S1001	-0.246	0.000	0.07					
1.002	S1002	-0.231	0.000	0.11					
1.003	S1003	-0.225	0.000	0.14					
1.004	S1004	-0.210	0.000	0.20					
1.005	S1005 Tank	-1.008	0.000	0.00					
2.000	S1200	-0.202	0.000	0.02					
1.006	S1006	-0.047	0.000	0.21					
3.000	RE01	-0.126	0.000	0.06					
4.000	RE02	-0.130	0.000	0.04					
1.007	S1007	-0.017	0.000	0.21					
5.000	S3000	-0.283	0.000	0.01					
5.001	S3001	-0.266	0.000	0.03					
5.002	S3002	-0.279	0.000	0.01					
6.000	S4000	-0.273	0.000	0.02					
1.008	S1008	0.045	0.000	0.18					
7.000	S5000	-0.134	0.000	0.03					
1.009	S1009	0.241	0.000	0.37					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.011	17.532	0.5	3.1	OK
1.001	S1001	0.128	24.863	0.5	4.4	OK
1.002	S1002	0.170	31.238	0.4	5.5	OK
1.003	S1003	0.091	44.945	0.6	7.9	OK
1.004	S1004	0.222	60.564	0.6	10.6	OK
1.005	S1005 Tank	0.000	60.564	0.1	10.6	OK
2.000	S1200	0.005	12.431	1.3	2.2	OK
1.006	S1006	30.579	72.993	0.5	10.8	OK
3.000	RE01	0.000	9.881	0.9	1.7	OK
4.000	RE02	0.000	7.969	1.0	1.4	OK
1.007	S1007	0.877	95.625	0.6	12.0	OK
5.000	S3000	0.003	5.737	0.6	1.0	OK
5.001	S3001	0.033	12.750	0.5	2.2	OK
5.002	S3002	0.031	21.674	1.8	3.8	OK
6.000	S4000	0.025	18.169	1.2	3.2	OK
1.008	S1008	2.665	143.117	0.8	14.9	SURCHARGED
7.000	S5000	0.003	5.737	1.1	1.0	OK
1.009	S1009	2.023	148.852	1.0	15.5	SURCHARGED

SGi Consulting		Page 194
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 360 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	360 minute	5 year Winter I+0%	360	85	29.920	29.039
1.001	S1001	360 minute	5 year Winter I+0%	360	85	29.921	28.976
1.002	S1002	360 minute	5 year Winter I+0%	360	85	29.920	28.900
1.003	S1003	360 minute	5 year Winter I+0%	360	85	29.846	28.875
1.004	S1004	360 minute	5 year Winter I+0%	360	85	29.850	28.813
1.005	S1005 Tank	360 minute	5 year Winter I+0%	360	72	29.350	27.937
2.000	S1200	360 minute	5 year Winter I+0%	360	85	29.350	28.593
1.006	S1006	360 minute	5 year Winter I+0%	360	72	29.350	27.937
3.000	RE01	360 minute	5 year Winter I+0%	360	85	29.859	28.701
4.000	RE02	360 minute	5 year Winter I+0%	360	85	29.902	28.698
1.007	S1007	360 minute	5 year Winter I+0%	360	78	29.905	27.932
5.000	S3000	360 minute	5 year Winter I+0%	360	85	29.950	29.013
5.001	S3001	360 minute	5 year Winter I+0%	360	85	29.916	28.916
5.002	S3002	360 minute	5 year Winter I+0%	360	85	29.887	28.686
6.000	S4000	360 minute	5 year Winter I+0%	360	85	29.850	28.571
1.008	S1008	360 minute	5 year Winter I+0%	360	78	29.874	27.922
7.000	S5000	360 minute	5 year Winter I+0%	360	85	29.836	28.144
1.009	S1009	360 minute	5 year Winter I+0%	360	78	29.874	27.889

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Page 195

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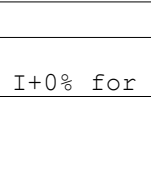
Network 2020.1.3

Summary Wizard of 360 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.261	0.000		0.04					
1.001	S1001	-0.254	0.000		0.06					
1.002	S1002	-0.240	0.000		0.08					
1.003	S1003	-0.235	0.000		0.11					
1.004	S1004	-0.222	0.000		0.15					
1.005	S1005 Tank	-1.074	0.000		0.00					
2.000	S1200	-0.207	0.000		0.02					
1.006	S1006	-0.113	0.000		0.18					
3.000	RE01	-0.129	0.000		0.05					
4.000	RE02	-0.132	0.000		0.03					
1.007	S1007	-0.083	0.000		0.18					
5.000	S3000	-0.287	0.000		0.01					
5.001	S3001	-0.269	0.000		0.02					
5.002	S3002	-0.284	0.000		0.01					
6.000	S4000	-0.279	0.000		0.01					
1.008	S1008	-0.008	0.000		0.17					
7.000	S5000	-0.136	0.000		0.02					
1.009	S1009	0.169	0.000		0.34					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.010	20.125	0.4	2.4	OK
1.001	S1001	0.107	28.541	0.5	3.3	OK
1.002	S1002	0.148	35.859	0.4	4.2	OK
1.003	S1003	0.078	51.593	0.5	6.0	OK
1.004	S1004	0.189	69.523	0.6	8.1	OK
1.005	S1005 Tank	0.000	69.523	0.1	8.1	OK
2.000	S1200	0.004	14.270	1.3	1.7	OK
1.006	S1006	21.287	83.793	0.5	9.4	OK
3.000	RE01	0.000	11.343	0.9	1.3	OK
4.000	RE02	0.000	9.148	0.9	1.1	OK
1.007	S1007	0.616	109.772	0.6	10.6	OK
5.000	S3000	0.002	6.586	0.4	0.8	OK
5.001	S3001	0.029	14.636	0.5	1.7	OK
5.002	S3002	0.022	24.880	1.6	2.9	OK
6.000	S4000	0.018	20.856	1.2	2.4	OK
1.008	S1008	2.277	164.289	0.8	13.8	OK
7.000	S5000	0.003	6.586	1.1	0.8	OK
1.009	S1009	1.853	170.872	1.0	14.3	SURCHARGED

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SGi Consulting		Page 196
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Summary Wizard of 480 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 5 year Winter I+0%	480	93	29.920	29.036
1.001	S1001		480 minute 5 year Winter I+0%	480	93	29.921	28.972
1.002	S1002		480 minute 5 year Winter I+0%	480	93	29.920	28.894
1.003	S1003		480 minute 5 year Winter I+0%	480	93	29.846	28.869
1.004	S1004		480 minute 5 year Winter I+0%	480	93	29.850	28.805
1.005	S1005 Tank		480 minute 5 year Winter I+0%	480	89	29.350	27.883
2.000	S1200		480 minute 5 year Winter I+0%	480	93	29.350	28.590
1.006	S1006		480 minute 5 year Winter I+0%	480	89	29.350	27.883
3.000	RE01		480 minute 5 year Winter I+0%	480	93	29.859	28.699
4.000	RE02		480 minute 5 year Winter I+0%	480	93	29.902	28.697
1.007	S1007		480 minute 5 year Winter I+0%	480	89	29.905	27.879
5.000	S3000		480 minute 5 year Winter I+0%	480	93	29.950	29.011
5.001	S3001		480 minute 5 year Winter I+0%	480	93	29.916	28.912
5.002	S3002		480 minute 5 year Winter I+0%	480	93	29.887	28.683
6.000	S4000		480 minute 5 year Winter I+0%	480	93	29.850	28.567
1.008	S1008		480 minute 5 year Winter I+0%	480	89	29.874	27.869
7.000	S5000		480 minute 5 year Winter I+0%	480	93	29.836	28.142
1.009	S1009		480 minute 5 year Winter I+0%	480	89	29.874	27.853

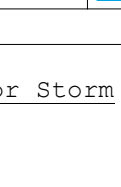
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SGi Consulting		Page 197
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Summary Wizard of 480 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.264	0.000	0.03					
1.001	S1001	-0.258	0.000	0.05					
1.002	S1002	-0.246	0.000	0.07					
1.003	S1003	-0.241	0.000	0.09					
1.004	S1004	-0.230	0.000	0.13					
1.005	S1005 Tank	-1.128	0.000	0.00					
2.000	S1200	-0.210	0.000	0.01					
1.006	S1006	-0.167	0.000	0.15					
3.000	RE01	-0.131	0.000	0.04					
4.000	RE02	-0.133	0.000	0.03					
1.007	S1007	-0.136	0.000	0.16					
5.000	S3000	-0.289	0.000	0.01					
5.001	S3001	-0.273	0.000	0.02					
5.002	S3002	-0.287	0.000	0.01					
6.000	S4000	-0.283	0.000	0.01					
1.008	S1008	-0.061	0.000	0.16					
7.000	S5000	-0.138	0.000	0.02					
1.009	S1009	0.133	0.000	0.33					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.009	22.177	0.4	1.9	OK
1.001	S1001	0.096	31.451	0.5	2.8	OK
1.002	S1002	0.131	39.515	0.4	3.5	OK
1.003	S1003	0.071	56.853	0.5	5.0	OK
1.004	S1004	0.171	76.610	0.5	6.7	OK
1.005	S1005 Tank	0.000	76.610	0.1	6.7	OK
2.000	S1200	0.003	15.724	1.3	1.4	OK
1.006	S1006	13.783	92.335	0.5	7.9	OK
3.000	RE01	0.000	12.499	0.8	1.1	OK
4.000	RE02	0.000	10.080	0.9	0.9	OK
1.007	S1007	0.423	120.962	0.6	9.5	OK
5.000	S3000	0.002	7.257	0.4	0.6	OK
5.001	S3001	0.025	16.127	0.5	1.4	OK
5.002	S3002	0.016	27.415	1.3	2.4	OK
6.000	S4000	0.014	22.982	1.1	2.0	OK
1.008	S1008	1.726	181.036	0.8	13.2	OK
7.000	S5000	0.002	7.257	1.1	0.6	OK
1.009	S1009	1.707	188.291	1.0	13.7	SURCHARGED

SGi Consulting		Page 198
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		Network 2020.1.3

Summary Wizard of 600 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	600 minute	5 year Winter I+0%	600	99	29.920	29.034
1.001	S1001	600 minute	5 year Winter I+0%	600	99	29.921	28.969
1.002	S1002	600 minute	5 year Winter I+0%	600	99	29.920	28.889
1.003	S1003	600 minute	5 year Winter I+0%	600	99	29.846	28.864
1.004	S1004	600 minute	5 year Winter I+0%	600	99	29.850	28.801
1.005	S1005 Tank	600 minute	5 year Winter I+0%	600	98	29.350	27.848
2.000	S1200	600 minute	5 year Winter I+0%	600	99	29.350	28.588
1.006	S1006	600 minute	5 year Winter I+0%	600	98	29.350	27.847
3.000	RE01	600 minute	5 year Winter I+0%	600	99	29.859	28.698
4.000	RE02	600 minute	5 year Winter I+0%	600	99	29.902	28.696
1.007	S1007	600 minute	5 year Winter I+0%	600	98	29.905	27.838
5.000	S3000	600 minute	5 year Winter I+0%	600	99	29.950	29.009
5.001	S3001	600 minute	5 year Winter I+0%	600	99	29.916	28.908
5.002	S3002	600 minute	5 year Winter I+0%	600	99	29.887	28.682
6.000	S4000	600 minute	5 year Winter I+0%	600	99	29.850	28.565
1.008	S1008	600 minute	5 year Winter I+0%	600	98	29.874	27.828
7.000	S5000	600 minute	5 year Winter I+0%	600	99	29.836	28.140
1.009	S1009	600 minute	5 year Winter I+0%	600	98	29.874	27.815

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<table><tr><th colspan="5">Surcharged Flooded</th><th colspan="5">Total</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap.</th><th>Overflow (l/s) Act.</th><th>Overflow Vol (m³)</th><th>Overflow Vol (m³)</th><th>Level Exceeded</th></tr><tr><td>1.000</td><td>S1000</td><td>-0.266</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td></tr><tr><td>1.001</td><td>S1001</td><td>-0.261</td><td>0.000</td><td>0.04</td><td></td><td></td><td></td><td></td></tr><tr><td>1.002</td><td>S1002</td><td>-0.251</td><td>0.000</td><td>0.06</td><td></td><td></td><td></td><td></td></tr><tr><td>1.003</td><td>S1003</td><td>-0.246</td><td>0.000</td><td>0.08</td><td></td><td></td><td></td><td></td></tr><tr><td>1.004</td><td>S1004</td><td>-0.234</td><td>0.000</td><td>0.11</td><td></td><td></td><td></td><td></td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>-1.163</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td></tr><tr><td>2.000</td><td>S1200</td><td>-0.212</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td></tr><tr><td>1.006</td><td>S1006</td><td>-0.203</td><td>0.000</td><td>0.13</td><td></td><td></td><td></td><td></td></tr><tr><td>3.000</td><td>RE01</td><td>-0.132</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td></tr><tr><td>4.000</td><td>RE02</td><td>-0.134</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td></tr><tr><td>1.007</td><td>S1007</td><td>-0.177</td><td>0.000</td><td>0.15</td><td></td><td></td><td></td><td></td></tr><tr><td>5.000</td><td>S3000</td><td>-0.291</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td></tr><tr><td>5.001</td><td>S3001</td><td>-0.277</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td></tr><tr><td>5.002</td><td>S3002</td><td>-0.288</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td></tr><tr><td>6.000</td><td>S4000</td><td>-0.285</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td></tr><tr><td>1.008</td><td>S1008</td><td>-0.102</td><td>0.000</td><td>0.15</td><td></td><td></td><td></td><td></td></tr><tr><td>7.000</td><td>S5000</td><td>-0.140</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td></tr><tr><td>1.009</td><td>S1009</td><td>0.095</td><td>0.000</td><td>0.31</td><td></td><td></td><td></td><td></td></tr></table>										Surcharged Flooded					Total					PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap.	Overflow (l/s) Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	1.000	S1000	-0.266	0.000	0.03					1.001	S1001	-0.261	0.000	0.04					1.002	S1002	-0.251	0.000	0.06					1.003	S1003	-0.246	0.000	0.08					1.004	S1004	-0.234	0.000	0.11					1.005	S1005 Tank	-1.163	0.000	0.00					2.000	S1200	-0.212	0.000	0.01					1.006	S1006	-0.203	0.000	0.13					3.000	RE01	-0.132	0.000	0.03					4.000	RE02	-0.134	0.000	0.02					1.007	S1007	-0.177	0.000	0.15					5.000	S3000	-0.291	0.000	0.01					5.001	S3001	-0.277	0.000	0.02					5.002	S3002	-0.288	0.000	0.01					6.000	S4000	-0.285	0.000	0.01					1.008	S1008	-0.102	0.000	0.15					7.000	S5000	-0.140	0.000	0.01					1.009	S1009	0.095	0.000	0.31				
Surcharged Flooded					Total																																																																																																																																																																																									
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Overflow Cap.	Overflow (l/s) Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded																																																																																																																																																																																						
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1.003	S1003	-0.246	0.000	0.08																																																																																																																																																																																										
1.004	S1004	-0.234	0.000	0.11																																																																																																																																																																																										
1.005	S1005 Tank	-1.163	0.000	0.00																																																																																																																																																																																										
2.000	S1200	-0.212	0.000	0.01																																																																																																																																																																																										
1.006	S1006	-0.203	0.000	0.13																																																																																																																																																																																										
3.000	RE01	-0.132	0.000	0.03																																																																																																																																																																																										
4.000	RE02	-0.134	0.000	0.02																																																																																																																																																																																										
1.007	S1007	-0.177	0.000	0.15																																																																																																																																																																																										
5.000	S3000	-0.291	0.000	0.01																																																																																																																																																																																										
5.001	S3001	-0.277	0.000	0.02																																																																																																																																																																																										
5.002	S3002	-0.288	0.000	0.01																																																																																																																																																																																										
6.000	S4000	-0.285	0.000	0.01																																																																																																																																																																																										
1.008	S1008	-0.102	0.000	0.15																																																																																																																																																																																										
7.000	S5000	-0.140	0.000	0.01																																																																																																																																																																																										
1.009	S1009	0.095	0.000	0.31																																																																																																																																																																																										
<table><tr><th>PN</th><th>US/MH Name</th><th>Maximum Vol (m³)</th><th>Discharge Vol (m³)</th><th>Maximum Velocity (m/s)</th><th>Pipe Flow (l/s)</th><th>Status</th></tr><tr><td>1.000</td><td>S1000</td><td>0.008</td><td>23.903</td><td>0.4</td><td>1.7</td><td>OK</td></tr><tr><td>1.001</td><td>S1001</td><td>0.088</td><td>33.898</td><td>0.4</td><td>2.4</td><td>OK</td></tr><tr><td>1.002</td><td>S1002</td><td>0.118</td><td>42.590</td><td>0.4</td><td>3.0</td><td>OK</td></tr><tr><td>1.003</td><td>S1003</td><td>0.064</td><td>61.278</td><td>0.5</td><td>4.3</td><td>OK</td></tr><tr><td>1.004</td><td>S1004</td><td>0.158</td><td>82.573</td><td>0.5</td><td>5.8</td><td>OK</td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>0.000</td><td>82.573</td><td>0.1</td><td>5.8</td><td>OK</td></tr><tr><td>2.000</td><td>S1200</td><td>0.002</td><td>16.948</td><td>1.2</td><td>1.2</td><td>OK</td></tr><tr><td>1.006</td><td>S1006</td><td>9.052</td><td>99.521</td><td>0.5</td><td>6.6</td><td>OK</td></tr><tr><td>3.000</td><td>RE01</td><td>0.000</td><td>13.472</td><td>0.8</td><td>0.9</td><td>OK</td></tr><tr><td>4.000</td><td>RE02</td><td>0.000</td><td>10.865</td><td>0.9</td><td>0.8</td><td>OK</td></tr><tr><td>1.007</td><td>S1007</td><td>0.281</td><td>130.376</td><td>0.6</td><td>8.4</td><td>OK</td></tr><tr><td>5.000</td><td>S3000</td><td>0.001</td><td>7.822</td><td>0.3</td><td>0.5</td><td>OK</td></tr><tr><td>5.001</td><td>S3001</td><td>0.021</td><td>17.382</td><td>0.5</td><td>1.2</td><td>OK</td></tr><tr><td>5.002</td><td>S3002</td><td>0.013</td><td>29.548</td><td>1.2</td><td>2.1</td><td>OK</td></tr><tr><td>6.000</td><td>S4000</td><td>0.011</td><td>24.771</td><td>1.0</td><td>1.7</td><td>OK</td></tr><tr><td>1.008</td><td>S1008</td><td>1.304</td><td>195.125</td><td>0.8</td><td>12.5</td><td>OK</td></tr><tr><td>7.000</td><td>S5000</td><td>0.001</td><td>7.822</td><td>1.1</td><td>0.5</td><td>OK</td></tr><tr><td>1.009</td><td>S1009</td><td>1.554</td><td>202.944</td><td>1.0</td><td>13.0</td><td>SURCHARGED</td></tr></table>										PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status	1.000	S1000	0.008	23.903	0.4	1.7	OK	1.001	S1001	0.088	33.898	0.4	2.4	OK	1.002	S1002	0.118	42.590	0.4	3.0	OK	1.003	S1003	0.064	61.278	0.5	4.3	OK	1.004	S1004	0.158	82.573	0.5	5.8	OK	1.005	S1005 Tank	0.000	82.573	0.1	5.8	OK	2.000	S1200	0.002	16.948	1.2	1.2	OK	1.006	S1006	9.052	99.521	0.5	6.6	OK	3.000	RE01	0.000	13.472	0.8	0.9	OK	4.000	RE02	0.000	10.865	0.9	0.8	OK	1.007	S1007	0.281	130.376	0.6	8.4	OK	5.000	S3000	0.001	7.822	0.3	0.5	OK	5.001	S3001	0.021	17.382	0.5	1.2	OK	5.002	S3002	0.013	29.548	1.2	2.1	OK	6.000	S4000	0.011	24.771	1.0	1.7	OK	1.008	S1008	1.304	195.125	0.8	12.5	OK	7.000	S5000	0.001	7.822	1.1	0.5	OK	1.009	S1009	1.554	202.944	1.0	13.0	SURCHARGED																																																
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6.000	S4000	0.011	24.771	1.0	1.7	OK																																																																																																																																																																																								
1.008	S1008	1.304	195.125	0.8	12.5	OK																																																																																																																																																																																								
7.000	S5000	0.001	7.822	1.1	0.5	OK																																																																																																																																																																																								
1.009	S1009	1.554	202.944	1.0	13.0	SURCHARGED																																																																																																																																																																																								
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Micro Drainage Network 2020.1.3		

Summary Wizard of 720 minute 5 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	1
Number of Online Controls	1	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	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		720 minute 5 year Winter I+0%	720	104	29.920	29.032
1.001	S1001		720 minute 5 year Winter I+0%	720	104	29.921	28.967
1.002	S1002		720 minute 5 year Winter I+0%	720	104	29.920	28.886
1.003	S1003		720 minute 5 year Winter I+0%	720	104	29.846	28.860
1.004	S1004		720 minute 5 year Winter I+0%	720	104	29.850	28.797
1.005	S1005 Tank		720 minute 5 year Winter I+0%	720	103	29.350	27.828
2.000	S1200		720 minute 5 year Winter I+0%	720	104	29.350	28.586
1.006	S1006		720 minute 5 year Winter I+0%	720	103	29.350	27.825
3.000	RE01		720 minute 5 year Winter I+0%	720	104	29.859	28.697
4.000	RE02		720 minute 5 year Winter I+0%	720	104	29.902	28.695
1.007	S1007		720 minute 5 year Winter I+0%	720	103	29.905	27.806
5.000	S3000		720 minute 5 year Winter I+0%	720	104	29.950	29.008
5.001	S3001		720 minute 5 year Winter I+0%	720	104	29.916	28.906
5.002	S3002		720 minute 5 year Winter I+0%	720	104	29.887	28.680
6.000	S4000		720 minute 5 year Winter I+0%	720	104	29.850	28.563
1.008	S1008		720 minute 5 year Winter I+0%	720	103	29.874	27.779
7.000	S5000		720 minute 5 year Winter I+0%	720	104	29.836	28.139
1.009	S1009		720 minute 5 year Winter I+0%	720	103	29.874	27.767

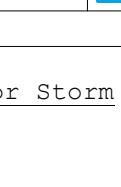
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Summary Wizard of 720 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)				Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.268	0.000	0.03					
1.001	S1001	-0.263	0.000	0.04					
1.002	S1002	-0.254	0.000	0.05					
1.003	S1003	-0.250	0.000	0.07					
1.004	S1004	-0.238	0.000	0.10					
1.005	S1005 Tank	-1.183	0.000	0.00					
2.000	S1200	-0.214	0.000	0.01					
1.006	S1006	-0.225	0.000	0.11					
3.000	RE01	-0.133	0.000	0.03					
4.000	RE02	-0.135	0.000	0.02					
1.007	S1007	-0.209	0.000	0.13					
5.000	S3000	-0.292	0.000	0.01					
5.001	S3001	-0.279	0.000	0.01					
5.002	S3002	-0.290	0.000	0.01					
6.000	S4000	-0.287	0.000	0.01					
1.008	S1008	-0.151	0.000	0.14					
7.000	S5000	-0.141	0.000	0.01					
1.009	S1009	0.047	0.000	0.29					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Vol (m³)	Vol (m³)			
1.000	S1000	0.008	25.408	0.4	1.5	OK
1.001	S1001	0.083	36.032	0.4	2.1	OK
1.002	S1002	0.109	45.271	0.4	2.7	OK
1.003	S1003	0.059	65.135	0.5	3.8	OK
1.004	S1004	0.149	87.771	0.5	5.1	OK
1.005	S1005 Tank	0.000	87.771	0.1	5.1	OK
2.000	S1200	0.002	18.015	1.0	1.1	OK
1.006	S1006	6.921	105.786	0.5	5.9	OK
3.000	RE01	0.000	14.320	0.8	0.8	OK
4.000	RE02	0.000	11.549	0.9	0.7	OK
1.007	S1007	0.187	138.584	0.6	7.7	OK
5.000	S3000	0.001	8.314	0.3	0.5	OK
5.001	S3001	0.018	18.476	0.5	1.1	OK
5.002	S3002	0.010	31.408	1.0	1.8	OK
6.000	S4000	0.009	26.330	0.9	1.5	OK
1.008	S1008	0.834	207.408	0.8	11.6	OK
7.000	S5000	0.001	8.314	1.1	0.5	OK
1.009	S1009	1.281	215.720	1.0	12.0	SURCHARGED

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Summary Wizard of 960 minute 5 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	960 minute	5 year Winter I+0%	960	111	29.920	29.030
1.001	S1001	960 minute	5 year Winter I+0%	960	111	29.921	28.964
1.002	S1002	960 minute	5 year Winter I+0%	960	111	29.920	28.881
1.003	S1003	960 minute	5 year Winter I+0%	960	111	29.846	28.855
1.004	S1004	960 minute	5 year Winter I+0%	960	111	29.850	28.791
1.005	S1005 Tank	960 minute	5 year Winter I+0%	960	110	29.350	27.820
2.000	S1200	960 minute	5 year Winter I+0%	960	111	29.350	28.584
1.006	S1006	960 minute	5 year Winter I+0%	960	110	29.350	27.813
3.000	RE01	960 minute	5 year Winter I+0%	960	111	29.859	28.696
4.000	RE02	960 minute	5 year Winter I+0%	960	111	29.902	28.693
1.007	S1007	960 minute	5 year Winter I+0%	960	110	29.905	27.783
5.000	S3000	960 minute	5 year Winter I+0%	960	111	29.950	29.007
5.001	S3001	960 minute	5 year Winter I+0%	960	111	29.916	28.902
5.002	S3002	960 minute	5 year Winter I+0%	960	111	29.887	28.678
6.000	S4000	960 minute	5 year Winter I+0%	960	111	29.850	28.561
1.008	S1008	960 minute	5 year Winter I+0%	960	110	29.874	27.701
7.000	S5000	960 minute	5 year Winter I+0%	960	111	29.836	28.137
1.009	S1009	960 minute	5 year Winter I+0%	960	110	29.874	27.650

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Page 203

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Summary Wizard of 960 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.270	0.000		0.02					
1.001	S1001	-0.266	0.000		0.03					
1.002	S1002	-0.259	0.000		0.04					
1.003	S1003	-0.255	0.000		0.06					
1.004	S1004	-0.244	0.000		0.08					
1.005	S1005 Tank	-1.191	0.000		0.00					
2.000	S1200	-0.216	0.000		0.01					
1.006	S1006	-0.237	0.000		0.10					
3.000	RE01	-0.134	0.000		0.02					
4.000	RE02	-0.137	0.000		0.02					
1.007	S1007	-0.232	0.000		0.12					
5.000	S3000	-0.293	0.000		0.00					
5.001	S3001	-0.283	0.000		0.01					
5.002	S3002	-0.292	0.000		0.01					
6.000	S4000	-0.289	0.000		0.01					
1.008	S1008	-0.229	0.000		0.12					
7.000	S5000	-0.143	0.000		0.01					
1.009	S1009	-0.070	0.000		0.25					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status		
1.000	S1000	0.007	27.969	0.4	1.2	OK		
1.001	S1001	0.076	39.665	0.4	1.7	OK		
1.002	S1002	0.097	49.836	0.4	2.2	OK		
1.003	S1003	0.052	71.702	0.5	3.1	OK		
1.004	S1004	0.133	96.620	0.5	4.2	OK		
1.005	S1005 Tank	0.000	96.620	0.1	4.2	OK		
2.000	S1200	0.001	19.830	0.9	0.9	OK		
1.006	S1006	5.684	116.450	0.5	5.1	OK		
3.000	RE01	0.000	15.764	0.8	0.7	OK		
4.000	RE02	0.000	12.713	0.9	0.6	OK		
1.007	S1007	0.135	152.555	0.6	6.7	OK		
5.000	S3000	0.000	9.151	0.2	0.4	OK		
5.001	S3001	0.014	20.338	0.5	0.9	OK		
5.002	S3002	0.007	34.572	0.8	1.5	OK		
6.000	S4000	0.006	28.984	0.7	1.3	OK		
1.008	S1008	0.277	228.314	0.8	10.0	OK		
7.000	S5000	0.001	9.152	0.9	0.4	OK		
1.009	S1009	0.568	237.464	0.9	10.4	OK		

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Page 205



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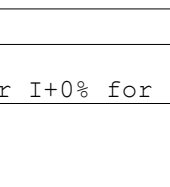
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Summary Wizard of 1440 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.276	0.000			0.02					
1.001	S1001	-0.269	0.000			0.02					
1.002	S1002	-0.264	0.000			0.03					
1.003	S1003	-0.261	0.000			0.04					
1.004	S1004	-0.252	0.000			0.06					
1.005	S1005 Tank	-1.195	0.000			0.00					
2.000	S1200	-0.218	0.000			0.01					
1.006	S1006	-0.246	0.000			0.07					
3.000	RE01	-0.137	0.000			0.02					
4.000	RE02	-0.140	0.000			0.01					
1.007	S1007	-0.240	0.000			0.09					
5.000	S3000	-0.295	0.000			0.00					
5.001	S3001	-0.287	0.000			0.01					
5.002	S3002	-0.294	0.000			0.00					
6.000	S4000	-0.292	0.000			0.01					
1.008	S1008	-0.239	0.000			0.09					
7.000	S5000	-0.144	0.000			0.01					
1.009	S1009	-0.103	0.000			0.19					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.005	32.009	0.4	0.9	OK
1.001	S1001	0.067	45.395	0.4	1.3	OK
1.002	S1002	0.083	57.034	0.3	1.7	OK
1.003	S1003	0.045	82.060	0.4	2.4	OK
1.004	S1004	0.111	110.577	0.4	3.2	OK
1.005	S1005 Tank	0.000	110.577	0.1	3.2	OK
2.000	S1200	0.001	22.692	0.7	0.7	OK
1.006	S1006	4.867	133.269	0.4	3.9	OK
3.000	RE01	0.000	18.041	0.8	0.5	OK
4.000	RE02	0.000	14.549	0.9	0.4	OK
1.007	S1007	0.119	174.589	0.5	5.1	OK
5.000	S3000	0.000	10.473	0.2	0.3	OK
5.001	S3001	0.009	23.274	0.4	0.7	OK
5.002	S3002	0.003	39.563	0.6	1.2	OK
6.000	S4000	0.004	33.168	0.5	1.0	OK
1.008	S1008	0.233	261.286	0.7	7.6	OK
7.000	S5000	0.000	10.473	0.7	0.3	OK
1.009	S1009	0.377	271.757	0.9	7.9	OK

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SGi Consulting		Page 206
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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Micro Drainage		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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	15 minute	30 year Winter I+0%	15	14	29.920	29.147
1.001	S1001	15 minute	30 year Winter I+0%	15	14	29.921	29.120
1.002	S1002	15 minute	30 year Winter I+0%	15	14	29.920	29.092
1.003	S1003	15 minute	30 year Winter I+0%	15	15	29.846	29.067
1.004	S1004	15 minute	30 year Winter I+0%	15	16	29.850	29.016
1.005	S1005 Tank	15 minute	30 year Winter I+0%	15	37	29.350	28.145
2.000	S1200	15 minute	30 year Winter I+0%	15	22	29.350	28.630
1.006	S1006	15 minute	30 year Winter I+0%	15	37	29.350	28.145
3.000	RE01	15 minute	30 year Winter I+0%	15	20	29.859	28.744
4.000	RE02	15 minute	30 year Winter I+0%	15	21	29.902	28.734
1.007	S1007	15 minute	30 year Winter I+0%	15	37	29.905	28.154
5.000	S3000	15 minute	30 year Winter I+0%	15	14	29.950	29.053
5.001	S3001	15 minute	30 year Winter I+0%	15	15	29.916	28.974
5.002	S3002	15 minute	30 year Winter I+0%	15	20	29.887	28.732
6.000	S4000	15 minute	30 year Winter I+0%	15	21	29.850	28.618
1.008	S1008	15 minute	30 year Winter I+0%	15	31	29.874	28.276
7.000	S5000	15 minute	30 year Winter I+0%	15	28	29.836	28.287
1.009	S1009	15 minute	30 year Winter I+0%	15	30	29.874	28.268

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Date 20/12/2024 11:43
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Micro Drainage

Page 207



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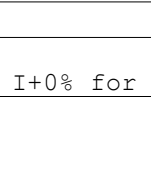
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Summary Wizard of 15 minute 30 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	S1000	-0.153	0.000	0.32					
1.001	S1001	-0.110	0.000	0.40					
1.002	S1002	-0.048	0.000	0.65					
1.003	S1003	-0.043	0.000	0.72					
1.004	S1004	-0.019	0.000	1.00					
1.005	S1005 Tank	-0.866	0.000	0.01					
2.000	S1200	-0.170	0.000	0.13					
1.006	S1006	0.095	0.000	0.33					
3.000	RE01	-0.086	0.000	0.37					
4.000	RE02	-0.096	0.000	0.27					
1.007	S1007	0.139	0.000	0.29					
5.000	S3000	-0.247	0.000	0.07					
5.001	S3001	-0.211	0.000	0.18					
5.002	S3002	-0.238	0.000	0.09					
6.000	S4000	-0.232	0.000	0.12					
1.008	S1008	0.346	0.000	0.24					
7.000	S5000	0.007	0.000	0.17					
1.009	S1009	0.548	0.000	0.46					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.040	8.778	0.7	18.2	OK
1.001	S1001	0.773	12.449	0.7	23.4	OK
1.002	S1002	1.314	15.641	0.6	32.1	OK
1.003	S1003	0.508	22.506	0.8	41.3	OK
1.004	S1004	1.319	30.326	0.9	53.3	OK
1.005	S1005 Tank	0.000	30.326	0.2	53.2	OK
2.000	S1200	0.014	6.225	1.8	13.3	OK
1.006	S1006	50.572	20.279	0.3	17.0	SURCHARGED
3.000	RE01	0.000	4.947	1.5	10.5	OK
4.000	RE02	0.000	3.991	1.5	8.6	OK
1.007	S1007	1.304	30.749	0.5	16.9	SURCHARGED
5.000	S3000	0.014	2.873	0.7	6.1	OK
5.001	S3001	0.095	6.384	0.8	13.6	OK
5.002	S3002	0.109	10.853	2.3	23.6	OK
6.000	S4000	0.071	9.098	1.6	19.5	OK
1.008	S1008	4.134	52.523	0.9	20.3	SURCHARGED
7.000	S5000	0.043	2.873	1.6	6.6	SURCHARGED
1.009	S1009	2.627	53.262	1.1	19.2	SURCHARGED

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SGi Consulting		Page 208
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	30 minute	30 year Winter I+0%	30	15	29.920	29.117
1.001	S1001	30 minute	30 year Winter I+0%	30	16	29.921	29.071
1.002	S1002	30 minute	30 year Winter I+0%	30	17	29.920	29.029
1.003	S1003	30 minute	30 year Winter I+0%	30	17	29.846	29.012
1.004	S1004	30 minute	30 year Winter I+0%	30	17	29.850	28.968
1.005	S1005 Tank	30 minute	30 year Winter I+0%	30	31	29.350	28.252
2.000	S1200	30 minute	30 year Winter I+0%	30	23	29.350	28.625
1.006	S1006	30 minute	30 year Winter I+0%	30	31	29.350	28.251
3.000	RE01	30 minute	30 year Winter I+0%	30	22	29.859	28.737
4.000	RE02	30 minute	30 year Winter I+0%	30	22	29.902	28.728
1.007	S1007	30 minute	30 year Winter I+0%	30	31	29.905	28.245
5.000	S3000	30 minute	30 year Winter I+0%	30	15	29.950	29.047
5.001	S3001	30 minute	30 year Winter I+0%	30	16	29.916	28.963
5.002	S3002	30 minute	30 year Winter I+0%	30	21	29.887	28.724
6.000	S4000	30 minute	30 year Winter I+0%	30	23	29.850	28.612
1.008	S1008	30 minute	30 year Winter I+0%	30	34	29.874	28.233
7.000	S5000	30 minute	30 year Winter I+0%	30	34	29.836	28.217
1.009	S1009	30 minute	30 year Winter I+0%	30	34	29.874	28.215

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Page 209

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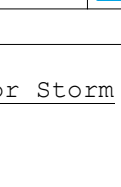
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Summary Wizard of 30 minute 30 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.183	0.000		0.27						
1.001	S1001	-0.159	0.000		0.37						
1.002	S1002	-0.111	0.000		0.54						
1.003	S1003	-0.098	0.000		0.66						
1.004	S1004	-0.067	0.000		0.95						
1.005	S1005 Tank	-0.759	0.000		0.01						
2.000	S1200	-0.175	0.000		0.11						
1.006	S1006	0.201	0.000		0.34						
3.000	RE01	-0.093	0.000		0.31						
4.000	RE02	-0.102	0.000		0.23						
1.007	S1007	0.230	0.000		0.31						
5.000	S3000	-0.253	0.000		0.06						
5.001	S3001	-0.222	0.000		0.15						
5.002	S3002	-0.246	0.000		0.08						
6.000	S4000	-0.238	0.000		0.10						
1.008	S1008	0.303	0.000		0.22						
7.000	S5000	-0.063	0.000		0.13						
1.009	S1009	0.495	0.000		0.45						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.032	12.121	0.6	15.4	OK
1.001	S1001	0.478	17.190	0.7	21.4	OK
1.002	S1002	0.868	21.597	0.6	26.8	OK
1.003	S1003	0.381	31.073	0.8	37.9	OK
1.004	S1004	1.041	41.872	0.9	50.8	OK
1.005	S1005 Tank	0.000	41.872	0.2	50.2	OK
2.000	S1200	0.013	8.595	1.7	11.0	OK
1.006	S1006	65.582	11.362	0.3	17.6	SURCHARGED
3.000	RE01	0.000	6.832	1.4	8.7	OK
4.000	RE02	0.000	5.510	1.4	7.0	OK
1.007	S1007	1.512	25.448	0.5	17.9	SURCHARGED
5.000	S3000	0.012	3.967	0.7	5.1	OK
5.001	S3001	0.083	8.815	0.8	11.3	OK
5.002	S3002	0.095	14.986	2.2	19.2	OK
6.000	S4000	0.064	12.562	1.5	16.1	OK
1.008	S1008	3.938	55.004	0.8	18.5	SURCHARGED
7.000	S5000	0.023	3.967	1.5	5.1	OK
1.009	S1009	2.531	56.352	1.1	19.1	SURCHARGED

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SGi Consulting		Page 210
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE		
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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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		60 minute 30 year Winter I+0%	60	20	29.920	29.093
1.001	S1001		60 minute 30 year Winter I+0%	60	21	29.921	29.040
1.002	S1002		60 minute 30 year Winter I+0%	60	22	29.920	28.987
1.003	S1003		60 minute 30 year Winter I+0%	60	22	29.846	28.969
1.004	S1004		60 minute 30 year Winter I+0%	60	21	29.850	28.920
1.005	S1005 Tank		60 minute 30 year Winter I+0%	60	28	29.350	28.319
2.000	S1200		60 minute 30 year Winter I+0%	60	28	29.350	28.617
1.006	S1006		60 minute 30 year Winter I+0%	60	28	29.350	28.318
3.000	RE01		60 minute 30 year Winter I+0%	60	27	29.859	28.727
4.000	RE02		60 minute 30 year Winter I+0%	60	27	29.902	28.720
1.007	S1007		60 minute 30 year Winter I+0%	60	28	29.905	28.311
5.000	S3000		60 minute 30 year Winter I+0%	60	20	29.950	29.039
5.001	S3001		60 minute 30 year Winter I+0%	60	22	29.916	28.951
5.002	S3002		60 minute 30 year Winter I+0%	60	27	29.887	28.714
6.000	S4000		60 minute 30 year Winter I+0%	60	28	29.850	28.601
1.008	S1008		60 minute 30 year Winter I+0%	60	29	29.874	28.297
7.000	S5000		60 minute 30 year Winter I+0%	60	30	29.836	28.280
1.009	S1009		60 minute 30 year Winter I+0%	60	29	29.874	28.278

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Date 20/12/2024 11:43
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Page 211



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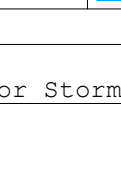
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Summary Wizard of 60 minute 30 year Winter I+0% for Storm

Surcharged Flooded					Total				
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
1.000	S1000	-0.207	0.000	0.19					
1.001	S1001	-0.190	0.000	0.26					
1.002	S1002	-0.153	0.000	0.39					
1.003	S1003	-0.141	0.000	0.48					
1.004	S1004	-0.115	0.000	0.70					
1.005	S1005 Tank	-0.692	0.000	0.01					
2.000	S1200	-0.183	0.000	0.08					
1.006	S1006	0.268	0.000	0.34					
3.000	RE01	-0.103	0.000	0.22					
4.000	RE02	-0.110	0.000	0.16					
1.007	S1007	0.296	0.000	0.32					
5.000	S3000	-0.261	0.000	0.04					
5.001	S3001	-0.234	0.000	0.11					
5.002	S3002	-0.256	0.000	0.05					
6.000	S4000	-0.249	0.000	0.07					
1.008	S1008	0.367	0.000	0.23					
7.000	S5000	0.000	0.000	0.09					
1.009	S1009	0.558	0.000	0.47					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.025	16.081	0.6	10.9	OK
1.001	S1001	0.292	22.805	0.7	15.4	OK
1.002	S1002	0.572	28.653	0.6	19.3	OK
1.003	S1003	0.269	41.225	0.7	27.7	OK
1.004	S1004	0.759	55.552	0.8	37.2	OK
1.005	S1005 Tank	0.000	55.552	0.2	37.0	OK
2.000	S1200	0.010	11.403	1.5	7.8	OK
1.006	S1006	74.928	47.963	0.4	18.0	SURCHARGED
3.000	RE01	0.000	9.064	1.3	6.2	OK
4.000	RE02	0.000	7.309	1.3	5.0	OK
1.007	S1007	1.665	67.781	0.6	18.3	SURCHARGED
5.000	S3000	0.010	5.263	0.7	3.6	OK
5.001	S3001	0.068	11.695	0.7	8.0	OK
5.002	S3002	0.076	19.882	2.1	13.6	OK
6.000	S4000	0.052	16.666	1.4	11.4	OK
1.008	S1008	4.228	109.133	0.8	19.2	SURCHARGED
7.000	S5000	0.041	5.263	1.4	3.6	SURCHARGED
1.009	S1009	2.646	112.199	1.1	19.8	SURCHARGED

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SGi Consulting		Page 214
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINAGE...	Designed by sgicivils Checked by	
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Summary Wizard of 180 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		180 minute 30 year Winter I+0%	180	48	29.920	29.063
1.001	S1001		180 minute 30 year Winter I+0%	180	48	29.921	29.003
1.002	S1002		180 minute 30 year Winter I+0%	180	46	29.920	28.936
1.003	S1003		180 minute 30 year Winter I+0%	180	46	29.846	28.914
1.004	S1004		180 minute 30 year Winter I+0%	180	46	29.850	28.859
1.005	S1005 Tank		180 minute 30 year Winter I+0%	180	30	29.350	28.294
2.000	S1200		180 minute 30 year Winter I+0%	180	51	29.350	28.604
1.006	S1006		180 minute 30 year Winter I+0%	180	30	29.350	28.293
3.000	RE01		180 minute 30 year Winter I+0%	180	49	29.859	28.713
4.000	RE02		180 minute 30 year Winter I+0%	180	49	29.902	28.708
1.007	S1007		180 minute 30 year Winter I+0%	180	30	29.905	28.287
5.000	S3000		180 minute 30 year Winter I+0%	180	48	29.950	29.030
5.001	S3001		180 minute 30 year Winter I+0%	180	48	29.916	28.930
5.002	S3002		180 minute 30 year Winter I+0%	180	47	29.887	28.702
6.000	S4000		180 minute 30 year Winter I+0%	180	51	29.850	28.586
1.008	S1008		180 minute 30 year Winter I+0%	180	32	29.874	28.273
7.000	S5000		180 minute 30 year Winter I+0%	180	33	29.836	28.257
1.009	S1009		180 minute 30 year Winter I+0%	180	32	29.874	28.254

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Page 215

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Micro Drainage

Network 2020.1.3

Summary Wizard of 180 minute 30 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)							
1.000	S1000	-0.237	0.000		0.10					
1.001	S1001	-0.227	0.000		0.13					
1.002	S1002	-0.204	0.000		0.20					
1.003	S1003	-0.196	0.000		0.25					
1.004	S1004	-0.176	0.000		0.36					
1.005	S1005 Tank	-0.717	0.000		0.00					
2.000	S1200	-0.196	0.000		0.04					
1.006	S1006	0.243	0.000		0.30					
3.000	RE01	-0.117	0.000		0.11					
4.000	RE02	-0.122	0.000		0.08					
1.007	S1007	0.272	0.000		0.28					
5.000	S3000	-0.270	0.000		0.02					
5.001	S3001	-0.255	0.000		0.05					
5.002	S3002	-0.268	0.000		0.03					
6.000	S4000	-0.264	0.000		0.03					
1.008	S1008	0.343	0.000		0.23					
7.000	S5000	-0.023	0.000		0.05					
1.009	S1009	0.534	0.000		0.47					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.016	23.642	0.5	5.5	OK
1.001	S1001	0.177	33.528	0.6	7.8	OK
1.002	S1002	0.243	42.125	0.5	9.8	OK
1.003	S1003	0.129	60.609	0.7	14.1	OK
1.004	S1004	0.375	81.672	0.7	19.0	OK
1.005	S1005 Tank	0.000	81.672	0.1	19.0	OK
2.000	S1200	0.007	16.764	1.3	3.9	OK
1.006	S1006	71.487	98.353	0.5	15.6	SURCHARGED
3.000	RE01	0.000	13.325	1.1	3.1	OK
4.000	RE02	0.000	10.746	1.1	2.5	OK
1.007	S1007	1.609	128.867	0.6	15.9	SURCHARGED
5.000	S3000	0.007	7.737	0.6	1.8	OK
5.001	S3001	0.045	17.194	0.6	4.0	OK
5.002	S3002	0.053	29.229	1.8	6.8	OK
6.000	S4000	0.035	24.502	1.2	5.7	OK
1.008	S1008	4.120	192.911	0.8	18.8	SURCHARGED
7.000	S5000	0.034	7.737	1.2	1.8	OK
1.009	S1009	2.603	200.628	1.1	19.6	SURCHARGED

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Page 217

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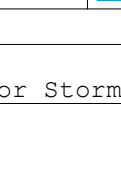
Network 2020.1.3

Summary Wizard of 240 minute 30 year Winter I+0% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded
			Volume (m³)								
1.000	S1000	-0.243	0.000		0.08						
1.001	S1001	-0.234	0.000		0.11						
1.002	S1002	-0.214	0.000		0.16						
1.003	S1003	-0.207	0.000		0.20						
1.004	S1004	-0.189	0.000		0.29						
1.005	S1005 Tank	-0.765	0.000		0.00						
2.000	S1200	-0.199	0.000		0.03						
1.006	S1006	0.195	0.000		0.26						
3.000	RE01	-0.120	0.000		0.09						
4.000	RE02	-0.125	0.000		0.07						
1.007	S1007	0.224	0.000		0.26						
5.000	S3000	-0.275	0.000		0.02						
5.001	S3001	-0.260	0.000		0.04						
5.002	S3002	-0.270	0.000		0.02						
6.000	S4000	-0.267	0.000		0.03						
1.008	S1008	0.295	0.000		0.22						
7.000	S5000	-0.071	0.000		0.04						
1.009	S1009	0.487	0.000		0.45						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.015	25.863	0.5	4.5	OK
1.001	S1001	0.160	36.678	0.6	6.4	OK
1.002	S1002	0.216	46.083	0.5	8.1	OK
1.003	S1003	0.115	66.303	0.6	11.6	OK
1.004	S1004	0.295	89.345	0.7	15.6	OK
1.005	S1005 Tank	0.000	89.345	0.1	15.6	OK
2.000	S1200	0.006	18.339	1.3	3.2	OK
1.006	S1006	64.665	107.677	0.5	13.5	SURCHARGED
3.000	RE01	0.000	14.577	1.0	2.6	OK
4.000	RE02	0.000	11.756	1.1	2.1	OK
1.007	S1007	1.498	141.066	0.6	14.7	SURCHARGED
5.000	S3000	0.006	8.464	0.6	1.5	OK
5.001	S3001	0.040	18.809	0.6	3.3	OK
5.002	S3002	0.049	31.975	1.8	5.6	OK
6.000	S4000	0.032	26.803	1.2	4.7	OK
1.008	S1008	3.903	211.129	0.8	18.3	SURCHARGED
7.000	S5000	0.021	8.464	1.2	1.5	OK
1.009	S1009	2.517	219.587	1.1	19.0	SURCHARGED

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Micro Drainage		Network 2020.1.3

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

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 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	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

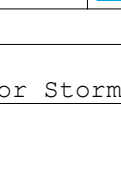
Rainfall Model	FSR	Ratio R	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 30 year Winter I+0%	480	77	29.920	29.043
1.001	S1001		480 minute 30 year Winter I+0%	480	77	29.921	28.981
1.002	S1002		480 minute 30 year Winter I+0%	480	77	29.920	28.906
1.003	S1003		480 minute 30 year Winter I+0%	480	77	29.846	28.881
1.004	S1004		480 minute 30 year Winter I+0%	480	77	29.850	28.821
1.005	S1005 Tank		480 minute 30 year Winter I+0%	480	47	29.350	28.071
2.000	S1200		480 minute 30 year Winter I+0%	480	77	29.350	28.596
1.006	S1006		480 minute 30 year Winter I+0%	480	47	29.350	28.071
3.000	RE01		480 minute 30 year Winter I+0%	480	77	29.859	28.703
4.000	RE02		480 minute 30 year Winter I+0%	480	77	29.902	28.699
1.007	S1007		480 minute 30 year Winter I+0%	480	52	29.905	28.066
5.000	S3000		480 minute 30 year Winter I+0%	480	77	29.950	29.015
5.001	S3001		480 minute 30 year Winter I+0%	480	77	29.916	28.918
5.002	S3002		480 minute 30 year Winter I+0%	480	77	29.887	28.689
6.000	S4000		480 minute 30 year Winter I+0%	480	77	29.850	28.575
1.008	S1008		480 minute 30 year Winter I+0%	480	55	29.874	28.054
7.000	S5000		480 minute 30 year Winter I+0%	480	77	29.836	28.146
1.009	S1009		480 minute 30 year Winter I+0%	480	55	29.874	28.038

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<table><tr><th colspan="5">Surcharged Flooded</th><th colspan="5">Total</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th><th>Overflow Act.</th><th>Overflow Vol (m³)</th><th>Overflow Vol (m³)</th><th>Level Exceeded</th></tr><tr><td>1.000</td><td>S1000</td><td>-0.257</td><td>0.000</td><td>0.05</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.001</td><td>S1001</td><td>-0.249</td><td>0.000</td><td>0.07</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.002</td><td>S1002</td><td>-0.234</td><td>0.000</td><td>0.10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.003</td><td>S1003</td><td>-0.229</td><td>0.000</td><td>0.13</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.004</td><td>S1004</td><td>-0.214</td><td>0.000</td><td>0.18</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>-0.940</td><td>0.000</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2.000</td><td>S1200</td><td>-0.204</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.006</td><td>S1006</td><td>0.021</td><td>0.000</td><td>0.21</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3.000</td><td>RE01</td><td>-0.127</td><td>0.000</td><td>0.06</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4.000</td><td>RE02</td><td>-0.131</td><td>0.000</td><td>0.04</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.007</td><td>S1007</td><td>0.051</td><td>0.000</td><td>0.22</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.000</td><td>S3000</td><td>-0.285</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.001</td><td>S3001</td><td>-0.267</td><td>0.000</td><td>0.03</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5.002</td><td>S3002</td><td>-0.281</td><td>0.000</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6.000</td><td>S4000</td><td>-0.275</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.008</td><td>S1008</td><td>0.124</td><td>0.000</td><td>0.19</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7.000</td><td>S5000</td><td>-0.134</td><td>0.000</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.009</td><td>S1009</td><td>0.318</td><td>0.000</td><td>0.40</td><td></td><td></td><td></td><td></td><td></td></tr></table>										Surcharged Flooded					Total					PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	Level Exceeded	1.000	S1000	-0.257	0.000	0.05						1.001	S1001	-0.249	0.000	0.07						1.002	S1002	-0.234	0.000	0.10						1.003	S1003	-0.229	0.000	0.13						1.004	S1004	-0.214	0.000	0.18						1.005	S1005 Tank	-0.940	0.000	0.00						2.000	S1200	-0.204	0.000	0.02						1.006	S1006	0.021	0.000	0.21						3.000	RE01	-0.127	0.000	0.06						4.000	RE02	-0.131	0.000	0.04						1.007	S1007	0.051	0.000	0.22						5.000	S3000	-0.285	0.000	0.01						5.001	S3001	-0.267	0.000	0.03						5.002	S3002	-0.281	0.000	0.01						6.000	S4000	-0.275	0.000	0.02						1.008	S1008	0.124	0.000	0.19						7.000	S5000	-0.134	0.000	0.02						1.009	S1009	0.318	0.000	0.40					
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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
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Micro Drainage Network 2020.1.3		

Summary Wizard of 600 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

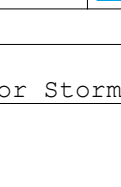
Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		600 minute 30 year Winter I+0%	600	84	29.920	29.040
1.001	S1001		600 minute 30 year Winter I+0%	600	84	29.921	28.977
1.002	S1002		600 minute 30 year Winter I+0%	600	84	29.920	28.901
1.003	S1003		600 minute 30 year Winter I+0%	600	84	29.846	28.876
1.004	S1004		600 minute 30 year Winter I+0%	600	84	29.850	28.814
1.005	S1005 Tank		600 minute 30 year Winter I+0%	600	55	29.350	28.005
2.000	S1200		600 minute 30 year Winter I+0%	600	84	29.350	28.593
1.006	S1006		600 minute 30 year Winter I+0%	600	55	29.350	28.005
3.000	RE01		600 minute 30 year Winter I+0%	600	84	29.859	28.701
4.000	RE02		600 minute 30 year Winter I+0%	600	84	29.902	28.698
1.007	S1007		600 minute 30 year Winter I+0%	600	62	29.905	28.000
5.000	S3000		600 minute 30 year Winter I+0%	600	84	29.950	29.013
5.001	S3001		600 minute 30 year Winter I+0%	600	84	29.916	28.916
5.002	S3002		600 minute 30 year Winter I+0%	600	84	29.887	28.687
6.000	S4000		600 minute 30 year Winter I+0%	600	84	29.850	28.571
1.008	S1008		600 minute 30 year Winter I+0%	600	63	29.874	27.976
7.000	S5000		600 minute 30 year Winter I+0%	600	84	29.836	28.144
1.009	S1009		600 minute 30 year Winter I+0%	600	63	29.874	27.962

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4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP									
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...				Designed by sgicivils Checked by					
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SGi Consulting		Page 225																																																																																																																																																																																																															
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<table><tr><th>PN</th><th>US/MH Name</th><th>Maximum Vol (m³)</th><th>Discharge Vol (m³)</th><th>Maximum Velocity (m/s)</th><th>Pipe Flow (l/s)</th><th>Status</th></tr><tr><td>1.000</td><td>S1000</td><td>0.009</td><td>36.199</td><td>0.4</td><td>2.1</td><td>OK</td></tr><tr><td>1.001</td><td>S1001</td><td>0.101</td><td>51.336</td><td>0.5</td><td>3.0</td><td>OK</td></tr><tr><td>1.002</td><td>S1002</td><td>0.139</td><td>64.499</td><td>0.4</td><td>3.8</td><td>OK</td></tr><tr><td>1.003</td><td>S1003</td><td>0.074</td><td>92.800</td><td>0.5</td><td>5.4</td><td>OK</td></tr><tr><td>1.004</td><td>S1004</td><td>0.179</td><td>125.050</td><td>0.5</td><td>7.3</td><td>OK</td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>0.000</td><td>125.050</td><td>0.1</td><td>7.3</td><td>OK</td></tr><tr><td>2.000</td><td>S1200</td><td>0.003</td><td>25.667</td><td>1.3</td><td>1.5</td><td>OK</td></tr><tr><td>1.006</td><td>S1006</td><td>23.032</td><td>150.717</td><td>0.5</td><td>8.8</td><td>OK</td></tr><tr><td>3.000</td><td>RE01</td><td>0.000</td><td>20.403</td><td>0.9</td><td>1.2</td><td>OK</td></tr><tr><td>4.000</td><td>RE02</td><td>0.000</td><td>16.454</td><td>0.9</td><td>1.0</td><td>OK</td></tr><tr><td>1.007</td><td>S1007</td><td>0.665</td><td>197.445</td><td>0.6</td><td>10.2</td><td>OK</td></tr><tr><td>5.000</td><td>S3000</td><td>0.002</td><td>11.846</td><td>0.4</td><td>0.7</td><td>OK</td></tr><tr><td>5.001</td><td>S3001</td><td>0.028</td><td>26.325</td><td>0.5</td><td>1.5</td><td>OK</td></tr><tr><td>5.002</td><td>S3002</td><td>0.018</td><td>44.752</td><td>1.5</td><td>2.6</td><td>OK</td></tr><tr><td>6.000</td><td>S4000</td><td>0.015</td><td>37.514</td><td>1.2</td><td>2.2</td><td>OK</td></tr><tr><td>1.008</td><td>S1008</td><td>2.402</td><td>295.507</td><td>0.8</td><td>14.5</td><td>SURCHARGED</td></tr><tr><td>7.000</td><td>S5000</td><td>0.002</td><td>11.846</td><td>1.1</td><td>0.7</td><td>OK</td></tr><tr><td>1.009</td><td>S1009</td><td>1.937</td><td>307.351</td><td>1.0</td><td>14.9</td><td>SURCHARGED</td></tr></table>										PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status	1.000	S1000	0.009	36.199	0.4	2.1	OK	1.001	S1001	0.101	51.336	0.5	3.0	OK	1.002	S1002	0.139	64.499	0.4	3.8	OK	1.003	S1003	0.074	92.800	0.5	5.4	OK	1.004	S1004	0.179	125.050	0.5	7.3	OK	1.005	S1005 Tank	0.000	125.050	0.1	7.3	OK	2.000	S1200	0.003	25.667	1.3	1.5	OK	1.006	S1006	23.032	150.717	0.5	8.8	OK	3.000	RE01	0.000	20.403	0.9	1.2	OK	4.000	RE02	0.000	16.454	0.9	1.0	OK	1.007	S1007	0.665	197.445	0.6	10.2	OK	5.000	S3000	0.002	11.846	0.4	0.7	OK	5.001	S3001	0.028	26.325	0.5	1.5	OK	5.002	S3002	0.018	44.752	1.5	2.6	OK	6.000	S4000	0.015	37.514	1.2	2.2	OK	1.008	S1008	2.402	295.507	0.8	14.5	SURCHARGED	7.000	S5000	0.002	11.846	1.1	0.7	OK	1.009	S1009	1.937	307.351	1.0	14.9	SURCHARGED																																																																			
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Micro Drainage		Network 2020.1.3

Summary Wizard of 960 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		960 minute 30 year Winter I+0%	960	98	29.920	29.034
1.001	S1001		960 minute 30 year Winter I+0%	960	98	29.921	28.969
1.002	S1002		960 minute 30 year Winter I+0%	960	98	29.920	28.890
1.003	S1003		960 minute 30 year Winter I+0%	960	98	29.846	28.865
1.004	S1004		960 minute 30 year Winter I+0%	960	98	29.850	28.802
1.005	S1005 Tank		960 minute 30 year Winter I+0%	960	92	29.350	27.868
2.000	S1200		960 minute 30 year Winter I+0%	960	98	29.350	28.588
1.006	S1006		960 minute 30 year Winter I+0%	960	92	29.350	27.868
3.000	RE01		960 minute 30 year Winter I+0%	960	98	29.859	28.698
4.000	RE02		960 minute 30 year Winter I+0%	960	98	29.902	28.696
1.007	S1007		960 minute 30 year Winter I+0%	960	92	29.905	27.864
5.000	S3000		960 minute 30 year Winter I+0%	960	98	29.950	29.009
5.001	S3001		960 minute 30 year Winter I+0%	960	98	29.916	28.909
5.002	S3002		960 minute 30 year Winter I+0%	960	98	29.887	28.682
6.000	S4000		960 minute 30 year Winter I+0%	960	98	29.850	28.565
1.008	S1008		960 minute 30 year Winter I+0%	960	92	29.874	27.854
7.000	S5000		960 minute 30 year Winter I+0%	960	98	29.836	28.140
1.009	S1009		960 minute 30 year Winter I+0%	960	92	29.874	27.841

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Page 229

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Network 2020.1.3

Summary Wizard of 1440 minute 30 year Winter I+0% for Storm

PN	US/MH Name	Surcharged Flooded			Total			Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	
1.000	S1000	-0.269	0.000	0.02				
1.001	S1001	-0.265	0.000	0.03				
1.002	S1002	-0.258	0.000	0.05				
1.003	S1003	-0.253	0.000	0.06				
1.004	S1004	-0.242	0.000	0.08				
1.005	S1005 Tank	-1.190	0.000	0.00				
2.000	S1200	-0.215	0.000	0.01				
1.006	S1006	-0.235	0.000	0.10				
3.000	RE01	-0.134	0.000	0.03				
4.000	RE02	-0.137	0.000	0.02				
1.007	S1007	-0.230	0.000	0.12				
5.000	S3000	-0.293	0.000	0.01				
5.001	S3001	-0.282	0.000	0.01				
5.002	S3002	-0.291	0.000	0.01				
6.000	S4000	-0.289	0.000	0.01				
1.008	S1008	-0.224	0.000	0.13				
7.000	S5000	-0.142	0.000	0.01				
1.009	S1009	-0.060	0.000	0.26				

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.007	44.364	0.4	1.3	OK
1.001	S1001	0.078	62.917	0.4	1.8	OK
1.002	S1002	0.100	79.049	0.4	2.3	OK
1.003	S1003	0.054	113.734	0.5	3.3	OK
1.004	S1004	0.138	153.259	0.5	4.5	OK
1.005	S1005 Tank	0.000	153.259	0.1	4.5	OK
2.000	S1200	0.001	31.455	0.9	0.9	OK
1.006	S1006	5.856	184.713	0.5	5.4	OK
3.000	RE01	0.000	25.005	0.8	0.7	OK
4.000	RE02	0.000	20.165	0.9	0.6	OK
1.007	S1007	0.140	241.983	0.6	7.1	OK
5.000	S3000	0.001	14.516	0.2	0.4	OK
5.001	S3001	0.015	32.261	0.5	0.9	OK
5.002	S3002	0.008	54.837	0.9	1.6	OK
6.000	S4000	0.007	45.976	0.7	1.3	OK
1.008	S1008	0.296	362.155	0.8	10.6	OK
7.000	S5000	0.001	14.517	0.9	0.4	OK
1.009	S1009	0.624	376.669	0.9	11.0	OK

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Summary Wizard of 60 minute 100 year Winter I+45% for Storm

		Surcharged	Flooded	Total					
	US/MH	Depth	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level
PN	Name	(m)	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol (m³)	Exceeded
1.000	S1000	0.009	0.000	0.37					
1.001	S1001	0.057	0.000	0.50					
1.002	S1002	0.067	0.000	0.74					
1.003	S1003	0.029	0.000	0.91					
1.004	S1004	0.025	0.000	1.31					
1.005	S1005 Tank	0.000	0.000	0.02					
2.000	S1200	0.215	0.000	0.15					
1.006	S1006	0.961	0.000	0.42					
3.000	RE01	0.184	0.000	0.42					
4.000	RE02	0.181	0.000	0.30					
1.007	S1007	0.988	0.000	0.39					
5.000	S3000	-0.244	0.000	0.08					
5.001	S3001	-0.197	0.000	0.21					
5.002	S3002	0.015	0.000	0.10					
6.000	S4000	0.137	0.000	0.13					
1.008	S1008	1.053	0.000	0.31					
7.000	S5000	0.630	0.000	0.16					
1.009	S1009	1.187	0.000	0.63					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.086	30.638	0.6	20.6	SURCHARGED
1.001	S1001	1.477	43.449	0.7	29.1	SURCHARGED
1.002	S1002	1.816	54.589	0.6	36.5	SURCHARGED
1.003	S1003	0.633	78.541	0.9	52.0	SURCHARGED
1.004	S1004	1.486	105.834	1.0	70.0	SURCHARGED
1.005	S1005 Tank	0.717	105.833	0.2	69.5	SURCHARGED
2.000	S1200	0.123	21.723	1.8	14.8	SURCHARGED
1.006	S1006	165.652	30.587	0.3	21.8	SURCHARGED
3.000	RE01	0.000	17.264	1.5	11.8	SURCHARGED
4.000	RE02	0.000	13.925	1.6	9.5	SURCHARGED
1.007	S1007	2.962	67.427	0.5	22.2	SURCHARGED
5.000	S3000	0.015	10.026	0.7	6.8	OK
5.001	S3001	0.111	22.280	0.8	15.2	OK
5.002	S3002	2.096	37.876	2.4	25.8	SURCHARGED
6.000	S4000	0.489	31.749	1.7	21.5	SURCHARGED
1.008	S1008	6.562	145.153	0.9	25.3	SURCHARGED
7.000	S5000	0.219	9.871	1.5	6.4	SURCHARGED
1.009	S1009	3.759	151.512	1.2	26.3	SURCHARGED

SGi Consulting		Page 237
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Summary Wizard of 120 minute 100 year Winter I+45% for Storm

		Surcharged	Flooded	Total					
	US/MH	Depth	Volume	Flow /	Overflow	Overflow	Overflow	Overflow	Level
PN	Name	(m)	(m³)	Cap.	(l/s)	Act.	Vol (m³)	Vol (m³)	Exceeded
1.000	S1000	0.070	0.000	0.24					
1.001	S1001	0.136	0.000	0.33					
1.002	S1002	0.221	0.000	0.49					
1.003	S1003	0.247	0.000	0.61					
1.004	S1004	0.313	0.000	0.88					
1.005	S1005 Tank	0.328	0.000	0.01					
2.000	S1200	0.544	0.000	0.10					
1.006	S1006	1.290	0.000	0.42					
3.000	RE01	0.512	0.000	0.28					
4.000	RE02	0.509	0.000	0.20					
1.007	S1007	1.316	0.000	0.39					
5.000	S3000	0.017	0.000	0.05					
5.001	S3001	0.131	0.000	0.14					
5.002	S3002	0.342	0.000	0.07					
6.000	S4000	0.464	0.000	0.08					
1.008	S1008	1.379	0.000	0.34					
7.000	S5000	0.941	0.000	0.11					
1.009	S1009	1.498	0.000	0.69					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Maximum Vol (m³)	Discharge Vol (m³)			
1.000	S1000	0.103	39.413	0.6	13.7	SURCHARGED
1.001	S1001	1.549	55.895	0.7	19.4	SURCHARGED
1.002	S1002	1.929	70.226	0.6	24.3	SURCHARGED
1.003	S1003	0.721	101.039	0.7	34.9	SURCHARGED
1.004	S1004	1.663	136.152	0.9	47.0	SURCHARGED
1.005	S1005 Tank	0.748	136.154	0.2	47.0	FLOOD RISK
2.000	S1200	0.216	27.946	1.6	9.7	FLOOD RISK
1.006	S1006	169.102	129.528	0.4	21.8	FLOOD RISK
3.000	RE01	0.000	22.212	1.4	7.7	SURCHARGED
4.000	RE02	0.000	17.914	1.4	6.2	SURCHARGED
1.007	S1007	3.333	179.039	0.5	22.2	SURCHARGED
5.000	S3000	0.088	12.898	0.7	4.5	SURCHARGED
5.001	S3001	0.924	28.664	0.8	10.0	SURCHARGED
5.002	S3002	3.106	48.728	2.2	17.0	SURCHARGED
6.000	S4000	0.858	40.845	1.5	14.1	SURCHARGED
1.008	S1008	7.034	282.968	0.8	28.0	SURCHARGED
7.000	S5000	0.307	12.898	1.4	4.2	SURCHARGED
1.009	S1009	4.308	293.411	1.2	28.9	SURCHARGED

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Page 239

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Summary Wizard of 180 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Total			Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.055	0.000	0.19					
1.001	S1001	0.012	0.000	0.25					
1.002	S1002	0.096	0.000	0.38					
1.003	S1003	0.123	0.000	0.47					
1.004	S1004	0.189	0.000	0.68					
1.005	S1005 Tank	0.205	0.000	0.01					
2.000	S1200	0.420	0.000	0.07					
1.006	S1006	1.166	0.000	0.41					
3.000	RE01	0.389	0.000	0.21					
4.000	RE02	0.385	0.000	0.15					
1.007	S1007	1.192	0.000	0.38					
5.000	S3000	-0.106	0.000	0.04					
5.001	S3001	0.008	0.000	0.10					
5.002	S3002	0.220	0.000	0.05					
6.000	S4000	0.341	0.000	0.06					
1.008	S1008	1.257	0.000	0.32					
7.000	S5000	0.825	0.000	0.08					
1.009	S1009	1.381	0.000	0.67					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.068	44.789	0.6	10.4	OK
1.001	S1001	1.417	63.519	0.7	14.8	SURCHARGED
1.002	S1002	1.878	79.806	0.6	18.6	SURCHARGED
1.003	S1003	0.685	114.821	0.7	26.7	SURCHARGED
1.004	S1004	1.628	154.723	0.8	36.0	SURCHARGED
1.005	S1005 Tank	0.748	154.722	0.2	35.9	FLOOD RISK
2.000	S1200	0.181	31.759	1.5	7.4	FLOOD RISK
1.006	S1006	168.962	184.717	0.5	21.4	FLOOD RISK
3.000	RE01	0.000	25.243	1.3	5.9	SURCHARGED
4.000	RE02	0.000	20.358	1.3	4.7	SURCHARGED
1.007	S1007	3.194	242.470	0.6	21.8	SURCHARGED
5.000	S3000	0.053	14.658	0.6	3.4	OK
5.001	S3001	0.775	32.573	0.7	7.6	SURCHARGED
5.002	S3002	3.070	55.374	2.1	12.9	SURCHARGED
6.000	S4000	0.720	46.417	1.4	10.8	SURCHARGED
1.008	S1008	6.859	363.744	0.8	27.0	SURCHARGED
7.000	S5000	0.274	14.658	1.3	3.2	SURCHARGED
1.009	S1009	4.102	378.290	1.2	28.0	SURCHARGED

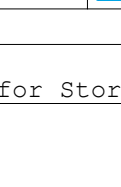
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SGi Consulting		Page 241
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAIN...	Designed by sgicivils Checked by	
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Summary Wizard of 240 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)				Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.217	0.000	0.15					
1.001	S1001	-0.154	0.000	0.21					
1.002	S1002	-0.069	0.000	0.31					
1.003	S1003	-0.042	0.000	0.38					
1.004	S1004	0.021	0.000	0.55					
1.005	S1005 Tank	0.038	0.000	0.01					
2.000	S1200	0.253	0.000	0.06					
1.006	S1006	0.999	0.000	0.40					
3.000	RE01	0.221	0.000	0.17					
4.000	RE02	0.218	0.000	0.12					
1.007	S1007	1.026	0.000	0.38					
5.000	S3000	-0.265	0.000	0.03					
5.001	S3001	-0.158	0.000	0.08					
5.002	S3002	0.054	0.000	0.04					
6.000	S4000	0.175	0.000	0.05					
1.008	S1008	1.091	0.000	0.31					
7.000	S5000	0.667	0.000	0.07					
1.009	S1009	1.224	0.000	0.64					

PN	US/MH	Maximum	Discharge	Maximum	Pipe	Status
	Name	Vol (m³)	Vol (m³)	Velocity (m/s)	Flow (l/s)	
1.000	S1000	0.022	48.698	0.6	8.5	OK
1.001	S1001	0.507	69.062	0.6	12.1	OK
1.002	S1002	1.166	86.770	0.5	15.2	OK
1.003	S1003	0.509	124.843	0.7	21.9	OK
1.004	S1004	1.480	168.228	0.8	29.4	SURCHARGED
1.005	S1005 Tank	0.730	168.229	0.2	29.4	SURCHARGED
2.000	S1200	0.134	34.531	1.5	6.1	FLOOD RISK
1.006	S1006	166.494	202.622	0.5	21.0	SURCHARGED
3.000	RE01	0.000	27.447	1.2	4.8	SURCHARGED
4.000	RE02	0.000	22.135	1.2	3.9	SURCHARGED
1.007	S1007	3.005	265.480	0.6	21.7	SURCHARGED
5.000	S3000	0.009	15.937	0.6	2.8	OK
5.001	S3001	0.232	35.417	0.6	6.2	OK
5.002	S3002	2.403	60.207	2.0	10.6	SURCHARGED
6.000	S4000	0.532	50.468	1.4	8.8	SURCHARGED
1.008	S1008	6.620	397.400	0.8	25.6	SURCHARGED
7.000	S5000	0.230	15.937	1.3	2.6	SURCHARGED
1.009	S1009	3.824	413.311	1.2	26.6	SURCHARGED

SGi Consulting		Page 244	
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP			
Date 20/12/2024 11:43			
File SW NETWORK 1 & 2 DRAINAGE...			
Designed by sgicivils			
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Summary Wizard of 480 minute 100 year Winter I+45% 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		480 minute 100 year Winter I+45%	480	50	29.920	29.062
1.001	S1001		480 minute 100 year Winter I+45%	480	50	29.921	29.001
1.002	S1002		480 minute 100 year Winter I+45%	480	50	29.920	28.933
1.003	S1003		480 minute 100 year Winter I+45%	480	50	29.846	28.911
1.004	S1004		480 minute 100 year Winter I+45%	480	50	29.850	28.855
1.005	S1005 Tank		480 minute 100 year Winter I+45%	480	15	29.350	28.760
2.000	S1200		480 minute 100 year Winter I+45%	480	15	29.350	28.761
1.006	S1006		480 minute 100 year Winter I+45%	480	15	29.350	28.757
3.000	RE01		480 minute 100 year Winter I+45%	480	17	29.859	28.759
4.000	RE02		480 minute 100 year Winter I+45%	480	16	29.902	28.757
1.007	S1007		480 minute 100 year Winter I+45%	480	15	29.905	28.750
5.000	S3000		480 minute 100 year Winter I+45%	480	50	29.950	29.029
5.001	S3001		480 minute 100 year Winter I+45%	480	50	29.916	28.928
5.002	S3002		480 minute 100 year Winter I+45%	480	17	29.887	28.735
6.000	S4000		480 minute 100 year Winter I+45%	480	15	29.850	28.736
1.008	S1008		480 minute 100 year Winter I+45%	480	15	29.874	28.732
7.000	S5000		480 minute 100 year Winter I+45%	480	15	29.836	28.672
1.009	S1009		480 minute 100 year Winter I+45%	480	15	29.874	28.669

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SGi Consulting		Page 246
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...	Designed by sgicivils Checked by	
Micro Drainage Network 2020.1.3		

Summary Wizard of 600 minute 100 year Winter I+45% 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	1
Number of Online Controls	1	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	0.280
Region England and Wales Cv (Summer)	1.000		
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000	600 minute	100 year Winter I+45%	600	58	29.920	29.056
1.001	S1001	600 minute	100 year Winter I+45%	600	58	29.921	28.995
1.002	S1002	600 minute	100 year Winter I+45%	600	55	29.920	28.925
1.003	S1003	600 minute	100 year Winter I+45%	600	55	29.846	28.902
1.004	S1004	600 minute	100 year Winter I+45%	600	55	29.850	28.844
1.005	S1005 Tank	600 minute	100 year Winter I+45%	600	17	29.350	28.638
2.000	S1200	600 minute	100 year Winter I+45%	600	19	29.350	28.640
1.006	S1006	600 minute	100 year Winter I+45%	600	17	29.350	28.636
3.000	RE01	600 minute	100 year Winter I+45%	600	58	29.859	28.710
4.000	RE02	600 minute	100 year Winter I+45%	600	58	29.902	28.705
1.007	S1007	600 minute	100 year Winter I+45%	600	17	29.905	28.629
5.000	S3000	600 minute	100 year Winter I+45%	600	58	29.950	29.024
5.001	S3001	600 minute	100 year Winter I+45%	600	58	29.916	28.925
5.002	S3002	600 minute	100 year Winter I+45%	600	55	29.887	28.700
6.000	S4000	600 minute	100 year Winter I+45%	600	22	29.850	28.616
1.008	S1008	600 minute	100 year Winter I+45%	600	18	29.874	28.612
7.000	S5000	600 minute	100 year Winter I+45%	600	18	29.836	28.592
1.009	S1009	600 minute	100 year Winter I+45%	600	18	29.874	28.590

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SGi Consulting		Page 247
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAINA...	Checked by	
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Summary Wizard of 600 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Overflow Vol (m³)	Total	Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)	
1.000	S1000	-0.244	0.000	0.08					
1.001	S1001	-0.235	0.000	0.11					
1.002	S1002	-0.215	0.000	0.16					
1.003	S1003	-0.208	0.000	0.20					
1.004	S1004	-0.191	0.000	0.29					
1.005	S1005 Tank	-0.373	0.000	0.00					
2.000	S1200	-0.160	0.000	0.03					
1.006	S1006	0.586	0.000	0.30					
3.000	RE01	-0.120	0.000	0.09					
4.000	RE02	-0.125	0.000	0.06					
1.007	S1007	0.614	0.000	0.30					
5.000	S3000	-0.276	0.000	0.02					
5.001	S3001	-0.260	0.000	0.04					
5.002	S3002	-0.270	0.000	0.02					
6.000	S4000	-0.234	0.000	0.03					
1.008	S1008	0.682	0.000	0.27					
7.000	S5000	0.312	0.000	0.04					
1.009	S1009	0.870	0.000	0.56					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum	Pipe	Status
				Velocity (m/s)	Flow (l/s)	
1.000	S1000	0.015	63.322	0.5	4.4	OK
1.001	S1001	0.158	89.803	0.6	6.3	OK
1.002	S1002	0.214	112.829	0.5	7.9	OK
1.003	S1003	0.114	162.336	0.6	11.4	OK
1.004	S1004	0.288	218.750	0.7	15.4	OK
1.005	S1005 Tank	0.000	218.750	0.1	15.4	OK
2.000	S1200	0.017	44.901	1.3	3.2	OK
1.006	S1006	119.710	263.651	0.5	15.6	SURCHARGED
3.000	RE01	0.000	35.691	1.0	2.5	OK
4.000	RE02	0.000	28.783	1.1	2.0	OK
1.007	S1007	2.388	345.392	0.6	17.3	SURCHARGED
5.000	S3000	0.005	20.723	0.6	1.5	OK
5.001	S3001	0.040	46.052	0.6	3.2	OK
5.002	S3002	0.049	78.288	1.8	5.5	OK
6.000	S4000	0.069	65.625	1.2	4.6	OK
1.008	S1008	5.654	516.935	0.8	22.4	SURCHARGED
7.000	S5000	0.129	20.723	1.1	1.4	SURCHARGED
1.009	S1009	3.198	537.657	1.1	23.3	SURCHARGED

SGi Consulting		Page 249
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 20/12/2024 11:43	Designed by sgicivils	
File SW NETWORK 1 & 2 DRAINA...	Checked by	
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Summary Wizard of 720 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)				Overflow Vol (m³)	Overflow Vol (m³)	
1.000	S1000	-0.248	0.000	0.07					
1.001	S1001	-0.238	0.000	0.09					
1.002	S1002	-0.221	0.000	0.14					
1.003	S1003	-0.215	0.000	0.17					
1.004	S1004	-0.198	0.000	0.25					
1.005	S1005 Tank	-0.480	0.000	0.00					
2.000	S1200	-0.200	0.000	0.03					
1.006	S1006	0.479	0.000	0.28					
3.000	RE01	-0.122	0.000	0.08					
4.000	RE02	-0.127	0.000	0.06					
1.007	S1007	0.507	0.000	0.28					
5.000	S3000	-0.279	0.000	0.02					
5.001	S3001	-0.262	0.000	0.04					
5.002	S3002	-0.273	0.000	0.02					
6.000	S4000	-0.269	0.000	0.02					
1.008	S1008	0.576	0.000	0.26					
7.000	S5000	0.208	0.000	0.03					
1.009	S1009	0.765	0.000	0.53					

PN	US/MH Name	Maximum Discharge		Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
		Vol (m³)	Vol (m³)			
1.000	S1000	0.013	66.582	0.5	3.9	OK
1.001	S1001	0.148	94.426	0.5	5.5	OK
1.002	S1002	0.197	118.638	0.5	6.9	OK
1.003	S1003	0.105	170.693	0.6	10.0	OK
1.004	S1004	0.252	230.012	0.6	13.5	OK
1.005	S1005 Tank	0.000	230.012	0.1	13.5	OK
2.000	S1200	0.006	47.213	1.3	2.8	OK
1.006	S1006	104.716	277.224	0.5	14.4	SURCHARGED
3.000	RE01	0.000	37.528	1.0	2.2	OK
4.000	RE02	0.000	30.265	1.0	1.8	OK
1.007	S1007	2.145	363.175	0.6	16.2	SURCHARGED
5.000	S3000	0.005	21.790	0.6	1.3	OK
5.001	S3001	0.037	48.423	0.6	2.8	OK
5.002	S3002	0.042	82.319	1.8	4.8	OK
6.000	S4000	0.030	69.003	1.2	4.0	OK
1.008	S1008	5.188	543.550	0.8	21.4	SURCHARGED
7.000	S5000	0.100	21.790	1.1	1.2	SURCHARGED
1.009	S1009	3.013	565.338	1.1	22.2	SURCHARGED

SGi Consulting				Page 250																																																																																																																																																																			
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP																																																																																																																																																																							
Date 20/12/2024 11:43 File SW NETWORK 1 & 2 DRAINA...																																																																																																																																																																							
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<u>Summary Wizard of 960 minute 100 year Winter I+45% 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 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 1 Number of Online Controls 1 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 0.280 Region England and Wales Cv (Summer) 1.000 M5-60 (mm) 19.000 Cv (Winter) 1.000 Margin for Flood Risk Warning (mm) 300.0 Analysis Timestep 2.5 Second Increment (Extended) DTS Status OFF DVD Status ON Inertia Status ON 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, 2, 5, 30, 100 Climate Change (%) 0, 0, 0, 0, 45																																																																																																																																																																							
<table><tr><th></th><th>US/MH</th><th>US</th><th></th><th>Duration</th><th>Storm</th><th>US/CL</th><th>Water</th></tr><tr><th>PN</th><th>Name</th><th>Label</th><th>Event</th><th>(mins)</th><th>Rank</th><th>(m)</th><th>Level (m)</th></tr><tr><td>1.000</td><td>S1000</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.920</td><td>29.046</td></tr><tr><td>1.001</td><td>S1001</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.921</td><td>28.985</td></tr><tr><td>1.002</td><td>S1002</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.920</td><td>28.910</td></tr><tr><td>1.003</td><td>S1003</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.846</td><td>28.886</td></tr><tr><td>1.004</td><td>S1004</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.850</td><td>28.827</td></tr><tr><td>1.005</td><td>S1005 Tank</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>23</td><td>29.350</td><td>28.351</td></tr><tr><td>2.000</td><td>S1200</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.350</td><td>28.598</td></tr><tr><td>1.006</td><td>S1006</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>23</td><td>29.350</td><td>28.350</td></tr><tr><td>3.000</td><td>RE01</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.859</td><td>28.704</td></tr><tr><td>4.000</td><td>RE02</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.902</td><td>28.701</td></tr><tr><td>1.007</td><td>S1007</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>23</td><td>29.905</td><td>28.344</td></tr><tr><td>5.000</td><td>S3000</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.950</td><td>29.017</td></tr><tr><td>5.001</td><td>S3001</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.916</td><td>28.919</td></tr><tr><td>5.002</td><td>S3002</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.887</td><td>28.692</td></tr><tr><td>6.000</td><td>S4000</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>70</td><td>29.850</td><td>28.578</td></tr><tr><td>1.008</td><td>S1008</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>23</td><td>29.874</td><td>28.329</td></tr><tr><td>7.000</td><td>S5000</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>23</td><td>29.836</td><td>28.312</td></tr><tr><td>1.009</td><td>S1009</td><td>960 minute</td><td>100 year Winter I+45%</td><td>960</td><td>23</td><td>29.874</td><td>28.310</td></tr></table>									US/MH	US		Duration	Storm	US/CL	Water	PN	Name	Label	Event	(mins)	Rank	(m)	Level (m)	1.000	S1000	960 minute	100 year Winter I+45%	960	70	29.920	29.046	1.001	S1001	960 minute	100 year Winter I+45%	960	70	29.921	28.985	1.002	S1002	960 minute	100 year Winter I+45%	960	70	29.920	28.910	1.003	S1003	960 minute	100 year Winter I+45%	960	70	29.846	28.886	1.004	S1004	960 minute	100 year Winter I+45%	960	70	29.850	28.827	1.005	S1005 Tank	960 minute	100 year Winter I+45%	960	23	29.350	28.351	2.000	S1200	960 minute	100 year Winter I+45%	960	70	29.350	28.598	1.006	S1006	960 minute	100 year Winter I+45%	960	23	29.350	28.350	3.000	RE01	960 minute	100 year Winter I+45%	960	70	29.859	28.704	4.000	RE02	960 minute	100 year Winter I+45%	960	70	29.902	28.701	1.007	S1007	960 minute	100 year Winter I+45%	960	23	29.905	28.344	5.000	S3000	960 minute	100 year Winter I+45%	960	70	29.950	29.017	5.001	S3001	960 minute	100 year Winter I+45%	960	70	29.916	28.919	5.002	S3002	960 minute	100 year Winter I+45%	960	70	29.887	28.692	6.000	S4000	960 minute	100 year Winter I+45%	960	70	29.850	28.578	1.008	S1008	960 minute	100 year Winter I+45%	960	23	29.874	28.329	7.000	S5000	960 minute	100 year Winter I+45%	960	23	29.836	28.312	1.009	S1009	960 minute	100 year Winter I+45%	960	23	29.874	28.310
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Page 251

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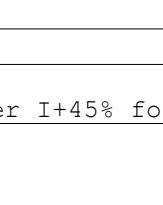
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Summary Wizard of 960 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Depth (m)	Surcharged Flooded			Overflow Act.	Overflow Vol (m³)	Total Overflow Vol (m³)	Level Exceeded
			Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	S1000	-0.254	0.000	0.06					
1.001	S1001	-0.245	0.000	0.08					
1.002	S1002	-0.230	0.000	0.11					
1.003	S1003	-0.224	0.000	0.14					
1.004	S1004	-0.208	0.000	0.20					
1.005	S1005 Tank	-0.660	0.000	0.00					
2.000	S1200	-0.202	0.000	0.02					
1.006	S1006	0.300	0.000	0.25					
3.000	RE01	-0.126	0.000	0.06					
4.000	RE02	-0.129	0.000	0.05					
1.007	S1007	0.329	0.000	0.25					
5.000	S3000	-0.283	0.000	0.01					
5.001	S3001	-0.266	0.000	0.03					
5.002	S3002	-0.278	0.000	0.02					
6.000	S4000	-0.272	0.000	0.02					
1.008	S1008	0.399	0.000	0.23					
7.000	S5000	0.032	0.000	0.03					
1.009	S1009	0.590	0.000	0.48					

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status
1.000	S1000	0.012	71.975	0.5	3.2	OK
1.001	S1001	0.130	102.073	0.5	4.5	OK
1.002	S1002	0.173	128.246	0.5	5.6	OK
1.003	S1003	0.092	184.517	0.6	8.1	OK
1.004	S1004	0.226	248.640	0.6	10.9	OK
1.005	S1005 Tank	0.000	248.640	0.1	10.9	OK
2.000	S1200	0.005	51.036	1.3	2.2	OK
1.006	S1006	79.510	299.677	0.5	12.9	SURCHARGED
3.000	RE01	0.000	40.568	1.0	1.8	OK
4.000	RE02	0.000	32.716	1.0	1.4	OK
1.007	S1007	1.739	392.590	0.6	14.3	SURCHARGED
5.000	S3000	0.003	23.555	0.6	1.0	OK
5.001	S3001	0.033	52.345	0.5	2.3	OK
5.002	S3002	0.032	88.985	1.8	3.9	OK
6.000	S4000	0.026	74.592	1.2	3.3	OK
1.008	S1008	4.376	587.573	0.8	19.5	SURCHARGED
7.000	S5000	0.050	23.555	1.1	1.0	SURCHARGED
1.009	S1009	2.704	611.126	1.1	20.2	SURCHARGED

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Summary Wizard of 1440 minute 100 year Winter I+45% 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	1
Number of Online Controls	1	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	0.280
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	19.000	Cv (Winter)	1.000

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

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, 2, 5, 30, 100
Climate Change (%)	0, 0, 0, 0, 45

PN	US/MH Name	US Label	Event	Duration (mins)	Storm Rank	US/CL (m)	Water Level (m)
1.000	S1000		1440 minute 100 year Winter I+45%	1440	86	29.920	29.039
1.001	S1001		1440 minute 100 year Winter I+45%	1440	86	29.921	28.976
1.002	S1002		1440 minute 100 year Winter I+45%	1440	86	29.920	28.900
1.003	S1003		1440 minute 100 year Winter I+45%	1440	86	29.846	28.875
1.004	S1004		1440 minute 100 year Winter I+45%	1440	86	29.850	28.813
1.005	S1005	Tank	1440 minute 100 year Winter I+45%	1440	40	29.350	28.102
2.000	S1200		1440 minute 100 year Winter I+45%	1440	86	29.350	28.593
1.006	S1006		1440 minute 100 year Winter I+45%	1440	40	29.350	28.102
3.000	RE01		1440 minute 100 year Winter I+45%	1440	86	29.859	28.701
4.000	RE02		1440 minute 100 year Winter I+45%	1440	86	29.902	28.698
1.007	S1007		1440 minute 100 year Winter I+45%	1440	40	29.905	28.097
5.000	S3000		1440 minute 100 year Winter I+45%	1440	86	29.950	29.013
5.001	S3001		1440 minute 100 year Winter I+45%	1440	86	29.916	28.916
5.002	S3002		1440 minute 100 year Winter I+45%	1440	86	29.887	28.686
6.000	S4000		1440 minute 100 year Winter I+45%	1440	86	29.850	28.570
1.008	S1008		1440 minute 100 year Winter I+45%	1440	47	29.874	28.084
7.000	S5000		1440 minute 100 year Winter I+45%	1440	86	29.836	28.144
1.009	S1009		1440 minute 100 year Winter I+45%	1440	47	29.874	28.068

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Page 253

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Summary Wizard of 1440 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Overflow Act.	Total		Level Exceeded
		Depth (m)	Volume (m³)					Overflow Vol (m³)		
1.000	S1000	-0.261	0.000	0.04						
1.001	S1001	-0.254	0.000	0.06						
1.002	S1002	-0.240	0.000	0.08						
1.003	S1003	-0.235	0.000	0.11						
1.004	S1004	-0.222	0.000	0.15						
1.005	S1005 Tank	-0.909	0.000	0.00						
2.000	S1200	-0.207	0.000	0.02						
1.006	S1006	0.052	0.000	0.19						
3.000	RE01	-0.129	0.000	0.05						
4.000	RE02	-0.132	0.000	0.03						
1.007	S1007	0.082	0.000	0.21						
5.000	S3000	-0.287	0.000	0.01						
5.001	S3001	-0.269	0.000	0.02						
5.002	S3002	-0.284	0.000	0.01						
6.000	S4000	-0.280	0.000	0.01						
1.008	S1008	0.154	0.000	0.20						
7.000	S5000	-0.136	0.000	0.02						
1.009	S1009	0.348	0.000	0.41						

PN	US/MH Name	Maximum Vol (m³)	Discharge Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status			
1.000	S1000	0.010	80.105	0.4	2.3	OK			
1.001	S1001	0.107	113.603	0.5	3.3	OK			
1.002	S1002	0.148	142.732	0.4	4.2	OK			
1.003	S1003	0.078	205.360	0.5	6.0	OK			
1.004	S1004	0.189	276.726	0.6	8.1	OK			
1.005	S1005 Tank	0.000	276.726	0.1	8.1	OK			
2.000	S1200	0.004	56.801	1.3	1.7	OK			
1.006	S1006	44.544	333.527	0.5	10.1	SURCHARGED			
3.000	RE01	0.000	45.150	0.9	1.3	OK			
4.000	RE02	0.000	36.411	0.9	1.1	OK			
1.007	S1007	1.166	436.935	0.6	11.9	SURCHARGED			
5.000	S3000	0.002	26.216	0.4	0.8	OK			
5.001	S3001	0.029	58.257	0.5	1.7	OK			
5.002	S3002	0.021	99.036	1.6	2.9	OK			
6.000	S4000	0.017	83.017	1.2	2.4	OK			
1.008	S1008	3.258	653.942	0.8	16.5	SURCHARGED			
7.000	S5000	0.003	26.216	1.1	0.8	OK			
1.009	S1009	2.242	680.156	1.1	17.1	SURCHARGED			

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