Project - Moss Side St Vincents Storm Sewer Design
All Storm Results

SGi Consulting		Page 1
4th Floor, Colchester House 40 Peter Street Manchester, M2 5GP		
Date 26/06/2025 10:48	Designed by sgicivils	
File C1876 SW DRAINAGE STRAT...	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)	18.000	Add Flow / Climate Change (%)	0
Ratio R	0.360	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)
0-4	0.357	4-8	0.257

Total Area Contributing (ha) = 0.614

Total Pipe Volume (m³) = 349.041

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	15.200	0.190	80.0	0.008	5.00	0.0	0.600		o	150	Pipe/Conduit	
1.001	18.875	0.235	80.3	0.028	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.002	16.000	0.200	80.0	0.009	0.00	0.0	0.600		o	225	Pipe/Conduit	
2.000	29.400	0.370	79.5	0.030	5.00	0.0	0.600		o	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)
1.000	50.00	5.23	31.250	0.008	0.0	0.0	0.0	1.12	19.9	1.4
1.001	50.00	5.44	30.985	0.036	0.0	0.0	0.0	1.46	58.1	6.5
1.002	50.00	5.62	30.750	0.045	0.0	0.0	0.0	1.46	58.2	8.1
2.000	50.00	5.43	31.250	0.030	0.0	0.0	0.0	1.13	19.9	5.4

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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	Auto Design
2.001	17.224	0.255	67.5	0.028	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.003	35.427	0.180	196.8	0.077	0.00	0.0		0.050	→[↓]		Cellular Storage	
3.000	66.150	0.705	93.8	0.129	5.00	0.0	0.600		o	300	Pipe/Conduit	
4.000	39.585	0.630	62.8	0.101	5.00	0.0	0.600		o	225	Pipe/Conduit	
3.001	24.949	0.250	99.8	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
1.004	24.473	0.125	195.8	0.000	0.00	0.0		0.050	→[↓]		Cellular Storage	
5.000	41.500	0.495	83.8	0.036	5.00	0.0	0.600		o	150	Pipe/Conduit	
5.001	19.166	0.195	98.3	0.010	0.00	0.0	0.600		o	225	Pipe/Conduit	
6.000	5.991	0.185	32.4	0.016	5.00	0.0	0.600		o	150	Pipe/Conduit	
6.001	5.019	0.160	31.4	0.003	0.00	0.0	0.600		o	150	Pipe/Conduit	
6.002	27.637	0.345	80.1	0.027	0.00	0.0	0.600		o	225	Pipe/Conduit	
5.002	4.600	0.050	92.0	0.021	0.00	0.0	0.600		o	300	Pipe/Conduit	
5.003	9.093	0.095	95.7	0.000	0.00	0.0	0.600		o	300	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)
2.001	50.00	5.61	30.805	0.058	0.0	0.0	0.0	1.59	63.4	10.5
1.003	50.00	6.34	30.400	0.180	0.0	0.0	0.0	0.83	3824.6	32.5
3.000	50.00	5.68	31.250	0.129	0.0	0.0	0.0	1.62	114.8	23.3
4.000	50.00	5.40	31.250	0.101	0.0	0.0	0.0	1.65	65.7	18.2
3.001	50.00	5.91	30.470	0.230	0.0	0.0	0.0	1.81	200.3	41.5
1.004	50.00	6.81	30.220	0.410	0.0	0.0	0.0	0.87	5828.2	74.0
5.000	50.00	5.63	31.250	0.036	0.0	0.0	0.0	1.10	19.4	6.5
5.001	50.00	5.87	30.680	0.046	0.0	0.0	0.0	1.32	52.4	8.3
6.000	50.00	5.06	31.250	0.016	0.0	0.0	0.0	1.78	31.4	2.9
6.001	50.00	5.10	31.065	0.019	0.0	0.0	0.0	1.80	31.9	3.4
6.002	50.00	5.42	30.830	0.046	0.0	0.0	0.0	1.46	58.1	8.3
5.002	50.00	5.92	30.410	0.113	0.0	0.0	0.0	1.64	115.9	20.4
5.003	50.00	6.01	30.360	0.113	0.0	0.0	0.0	1.61	113.6	20.4

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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	Auto Design
7.000	7.993	0.100	79.9	0.014	5.00	0.0	0.600		o	150	Pipe/Conduit	
7.001	8.395	0.735	11.4	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
5.004	9.146	0.095	96.3	0.014	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.005	17.047	0.085	200.6	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
8.000	49.820	1.015	49.1	0.063	5.00	0.0	0.600		o	225	Pipe/Conduit	
1.006	1.978	0.025	79.1	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
1.007	7.224	0.600	12.0	0.000	0.00	0.0	0.600		o	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)
7.000	50.00	5.12	31.250	0.014	0.0	0.0	0.0	1.13	19.9	2.5
7.001	50.00	5.17	31.150	0.014	0.0	0.0	0.0	3.00	53.0	2.5
5.004	50.00	6.11	30.265	0.141	0.0	0.0	0.0	1.60	113.3	25.5
1.005	50.00	7.03	30.095	0.551	0.0	0.0	0.0	1.28	140.9	99.5
8.000	50.00	5.44	31.250	0.063	0.0	0.0	0.0	1.87	74.4	11.4
1.006	50.00	7.06	30.010	0.614	0.0	0.0	0.0	1.13	20.0«	110.9
1.007	50.00	7.10	29.985	0.614	0.0	0.0	0.0	2.92	51.6«	110.9

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
S100	32.600	1.350	Open Manhole	1200	1.000	31.250	150				
S101	32.400	1.415	Open Manhole	1200	1.001	30.985	225	1.000	31.060	150	
S102	32.600	1.850	Open Manhole	600	1.002	30.750	225	1.001	30.750	225	
S200	32.600	1.350	Open Manhole	1200	2.000	31.250	150				
S201	32.500	1.695	Open Manhole	1200	2.001	30.805	225	2.000	30.880	150	
S103	32.380	1.980	Open Manhole	1500	1.003	30.400		1.002	30.550	225	
								2.001	30.550	225	
S300	32.600	1.350	Open Manhole	1200	3.000	31.250	300				
S400	32.600	1.350	Open Manhole	1200	4.000	31.250	225				
S301	32.600	2.130	Open Manhole	1350	3.001	30.470	375	3.000	30.545	300	
								4.000	30.620	225	
S104	32.380	2.160	Open Manhole	1	1.004	30.220		1.003	30.220		
								3.001	30.220	375	
S500	32.600	1.350	Open Manhole	1200	5.000	31.250	150				
S501	32.600	1.920	Open Manhole	1200	5.001	30.680	225	5.000	30.755	150	
S600	32.600	1.350	Open Manhole	600	6.000	31.250	150				
S601	32.600	1.535	Open Manhole	600	6.001	31.065	150	6.000	31.065	150	
S602	32.600	1.770	Open Manhole	600	6.002	30.830	225	6.001	30.905	150	
S502	32.600	2.190	Open Manhole	600	5.002	30.410	300	5.001	30.485	225	
								6.002	30.485	225	
S503	32.500	2.140	Open Manhole	1200	5.003	30.360	300	5.002	30.360	300	
S700	32.600	1.350	Open Manhole	600	7.000	31.250	150				
S701	32.600	1.450	Open Manhole	600	7.001	31.150	150	7.000	31.150	150	
S504	32.550	2.285	Open Manhole	1200	5.004	30.265	300	5.003	30.265	300	
								7.001	30.415	150	
S105	32.380	2.285	Open Manhole	1500	1.005	30.095	375	1.004	30.095		
								5.004	30.170	300	
S800	32.400	1.150	Open Manhole	1200	8.000	31.250	225				
S106	32.380	2.370	Open Manhole	1500	1.006	30.010	150	1.005	30.010	375	
								8.000	30.235	225	300
FW105	32.380	2.395	Open Manhole	1200	1.007	29.985	150	1.006	29.985	150	
	32.430	3.045	Open Manhole	0		OUTFALL		1.007	29.385	150	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S100	383874.648	395703.920	383874.648	395703.920	Required	
S101	383859.449	395704.100	383859.449	395704.100	Required	
S102	383859.671	395722.974	383859.671	395722.974	Required	
S200	383886.478	395705.911	383886.478	395705.911	Required	
S201	383886.826	395735.309	383886.826	395735.309	Required	
S103	383869.603	395735.518	383869.603	395735.518	Required	
S300	383844.283	395705.087	383844.283	395705.087	Required	
S400	383843.529	395810.788	383843.529	395810.788	Required	
S301	383845.067	395771.233	383845.067	395771.233	Required	
S104	383870.015	395770.943	383870.015	395770.943	Required	
S500	383848.483	395840.859	383848.483	395840.859	Required	
S501	383887.539	395826.827	383887.539	395826.827	Required	
S600	383846.866	395824.475	383846.866	395824.475	Required	
S601	383852.504	395822.449	383852.504	395822.449	Required	
S602	383855.061	395818.130	383855.061	395818.130	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S502	383881.070	395808.786	383881.070	395808.786	Required	
S503	383879.517	395804.456	383879.517	395804.456	Required	
S700	383862.120	395812.645	383862.120	395812.645	Required	
S701	383862.030	395804.653	383862.030	395804.653	Required	
S504	383870.425	395804.559	383870.425	395804.559	Required	
S105	383870.299	395795.414	383870.299	395795.414	Required	
S800	383886.758	395745.555	383886.758	395745.555	Required	
S106	383887.346	395795.372	383887.346	395795.372	Required	
FW105	383888.224	395797.144	383888.224	395797.144	Required	
	383895.449	395797.126			No Entry	

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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)
1.000	o	150	S100	32.600	31.250	1.200	Open Manhole	1200
1.001	o	225	S101	32.400	30.985	1.190	Open Manhole	1200
1.002	o	225	S102	32.600	30.750	1.625	Open Manhole	600
2.000	o	150	S200	32.600	31.250	1.200	Open Manhole	1200
2.001	o	225	S201	32.500	30.805	1.470	Open Manhole	1200
1.003	→[↓]		S103	32.380	30.400	0.779	Open Manhole	1500
3.000	o	300	S300	32.600	31.250	1.050	Open Manhole	1200
4.000	o	225	S400	32.600	31.250	1.125	Open Manhole	1200
3.001	o	375	S301	32.600	30.470	1.755	Open Manhole	1350
1.004	→[↓]		S104	32.380	30.220	0.959	Open Manhole	1
5.000	o	150	S500	32.600	31.250	1.200	Open Manhole	1200
5.001	o	225	S501	32.600	30.680	1.695	Open Manhole	1200
6.000	o	150	S600	32.600	31.250	1.200	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	15.200	80.0	S101	32.400	31.060	1.190	Open Manhole	1200
1.001	18.875	80.3	S102	32.600	30.750	1.625	Open Manhole	600
1.002	16.000	80.0	S103	32.380	30.550	1.605	Open Manhole	1500
2.000	29.400	79.5	S201	32.500	30.880	1.470	Open Manhole	1200
2.001	17.224	67.5	S103	32.380	30.550	1.605	Open Manhole	1500
1.003	35.427	196.8	S104	32.380	30.220	0.959	Open Manhole	1
3.000	66.150	93.8	S301	32.600	30.545	1.755	Open Manhole	1350
4.000	39.585	62.8	S301	32.600	30.620	1.755	Open Manhole	1350
3.001	24.949	99.8	S104	32.380	30.220	1.785	Open Manhole	1
1.004	24.473	195.8	S105	32.380	30.095	1.084	Open Manhole	1500
5.000	41.500	83.8	S501	32.600	30.755	1.695	Open Manhole	1200
5.001	19.166	98.3	S502	32.600	30.485	1.890	Open Manhole	600
6.000	5.991	32.4	S601	32.600	31.065	1.385	Open Manhole	600

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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)
6.001	o	150	S601	32.600	31.065	1.385	Open Manhole	600
6.002	o	225	S602	32.600	30.830	1.545	Open Manhole	600
5.002	o	300	S502	32.600	30.410	1.890	Open Manhole	600
5.003	o	300	S503	32.500	30.360	1.840	Open Manhole	1200
7.000	o	150	S700	32.600	31.250	1.200	Open Manhole	600
7.001	o	150	S701	32.600	31.150	1.300	Open Manhole	600
5.004	o	300	S504	32.550	30.265	1.985	Open Manhole	1200
1.005	o	375	S105	32.380	30.095	1.910	Open Manhole	1500
8.000	o	225	S800	32.400	31.250	0.925	Open Manhole	1200
1.006	o	150	S106	32.380	30.010	2.220	Open Manhole	1500
1.007	o	150	FW105	32.380	29.985	2.245	Open Manhole	1200

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)
6.001	5.019	31.4	S602	32.600	30.905	1.545	Open Manhole	600
6.002	27.637	80.1	S502	32.600	30.485	1.890	Open Manhole	600
5.002	4.600	92.0	S503	32.500	30.360	1.840	Open Manhole	1200
5.003	9.093	95.7	S504	32.550	30.265	1.985	Open Manhole	1200
7.000	7.993	79.9	S701	32.600	31.150	1.300	Open Manhole	600
7.001	8.395	11.4	S504	32.550	30.415	1.985	Open Manhole	1200
5.004	9.146	96.3	S105	32.380	30.170	1.910	Open Manhole	1500
1.005	17.047	200.6	S106	32.380	30.010	1.995	Open Manhole	1500
8.000	49.820	49.1	S106	32.380	30.235	1.920	Open Manhole	1500
1.006	1.978	79.1	FW105	32.380	29.985	2.245	Open Manhole	1200
1.007	7.224	12.0		32.430	29.385	2.895	Open Manhole	0

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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	0.008	0.008	0.008
1.001	-	-	100	0.028	0.028	0.028
1.002	-	-	100	0.009	0.009	0.009
2.000	-	-	100	0.030	0.030	0.030
2.001	-	-	100	0.028	0.028	0.028
1.003	-	-	100	0.077	0.077	0.077
3.000	-	-	100	0.129	0.129	0.129
4.000	-	-	100	0.101	0.101	0.101
3.001	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.000	0.000	0.000
5.000	-	-	100	0.036	0.036	0.036
5.001	-	-	100	0.010	0.010	0.010
6.000	-	-	100	0.016	0.016	0.016
6.001	-	-	100	0.003	0.003	0.003
6.002	-	-	100	0.027	0.027	0.027
5.002	-	-	100	0.021	0.021	0.021
5.003	-	-	100	0.000	0.000	0.000
7.000	-	-	100	0.014	0.014	0.014
7.001	-	-	100	0.000	0.000	0.000
5.004	-	-	100	0.014	0.014	0.014
1.005	-	-	100	0.000	0.000	0.000
8.000	-	-	100	0.063	0.063	0.063
1.006	-	-	100	0.000	0.000	0.000
1.007	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.614	0.614	0.614

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Network Classifications for Storm

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
1.000	S100	150	1.190	1.200	Unclassified	1200	0	1.200	Unclassified
1.001	S101	225	1.190	1.625	Unclassified	1200	0	1.190	Unclassified
1.002	S102	225	1.605	1.625	Unclassified	600	0	1.625	Unclassified
2.000	S200	150	1.200	1.470	Unclassified	1200	0	1.200	Unclassified
2.001	S201	225	1.470	1.605	Unclassified	1200	0	1.470	Unclassified
1.003	S103				Cellular Storage	1500	0	0.779	Unclassified
3.000	S300	300	1.050	1.755	Unclassified	1200	0	1.050	Unclassified
4.000	S400	225	1.125	1.755	Unclassified	1200	0	1.125	Unclassified
3.001	S301	375	1.755	1.785	Unclassified	1350	0	1.755	Unclassified
1.004	S104				Cellular Storage	1	0	0.959	Unclassified
5.000	S500	150	1.200	1.695	Unclassified	1200	0	1.200	Unclassified
5.001	S501	225	1.695	1.890	Unclassified	1200	0	1.695	Unclassified
6.000	S600	150	1.200	1.385	Unclassified	600	0	1.200	Unclassified
6.001	S601	150	1.385	1.545	Unclassified	600	0	1.385	Unclassified
6.002	S602	225	1.545	1.890	Unclassified	600	0	1.545	Unclassified
5.002	S502	300	1.840	1.890	Unclassified	600	0	1.890	Unclassified
5.003	S503	300	1.840	1.985	Unclassified	1200	0	1.840	Unclassified
7.000	S700	150	1.200	1.300	Unclassified	600	0	1.200	Unclassified
7.001	S701	150	1.300	1.985	Unclassified	600	0	1.300	Unclassified
5.004	S504	300	1.910	1.985	Unclassified	1200	0	1.985	Unclassified
1.005	S105	375	1.910	1.995	Unclassified	1500	0	1.910	Unclassified
8.000	S800	225	0.925	1.920	Unclassified	1200	0	0.925	Unclassified
1.006	S106	150	2.220	2.245	Unclassified	1500	0	2.220	Unclassified
1.007	FW105	150	2.245	2.895	Unclassified	1200	0	2.245	Unclassified

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.007		32.430	29.385	0.000	0	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
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

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Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	18.000	Storm Duration (mins)	30
Ratio R	0.360		

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Online Controls for Storm

Hydro-Brake® Optimum Manhole: S106, DS/PN: 1.006, Volume (m³): 7.8

Unit Reference	MD-SCU-0090-1250-2370-1250
Design Head (m)	2.370
Design Flow (l/s)	12.5
Flush-Flo™	Calculated
Objective	Linear discharge profile
Application	Surface
Sump Available	Yes
Diameter (mm)	90
Invert Level (m)	30.010
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.370	12.5
Flush-Flo™	0.114	3.3
Kick-Flo®	0.134	3.3
Mean Flow over Head Range	-	8.5

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.1	1.200	9.0	3.000	14.0	7.000	21.0
0.200	3.9	1.400	9.7	3.500	15.1	7.500	21.7
0.300	4.7	1.600	10.4	4.000	16.1	8.000	22.4
0.400	5.4	1.800	11.0	4.500	17.0	8.500	23.1
0.500	6.0	2.000	11.5	5.000	17.9	9.000	23.7
0.600	6.5	2.200	12.1	5.500	18.7	9.500	24.4
0.800	7.5	2.400	12.6	6.000	19.5		
1.000	8.3	2.600	13.1	6.500	20.3		

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Storage Structures for Storm

Cellular Storage Pipe: 1.003

Manning's N	0.050	Infiltration Coefficient Side (m/hr)	0.00000
Invert Level (m)	30.400	Safety Factor	1.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	144.0	0.0	1.201	0.0	0.0
1.200	144.0	0.0			

Cellular Storage Pipe: 1.004

Manning's N	0.050	Infiltration Coefficient Side (m/hr)	0.00000
Invert Level (m)	30.220	Safety Factor	1.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	144.0	0.0	1.201	0.0	0.0
1.200	144.0	0.0			

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Volume Summary (Static)

Length Calculations based on Centre-Centre

Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)
1.000	S100	1.527	0.269	0.000	1.795
1.001	S101	1.600	0.750	0.000	2.351
1.002	S102	0.523	0.636	0.000	1.159
2.000	S200	1.527	0.520	0.000	2.046
2.001	S201	1.917	0.685	0.000	2.602
1.003	S103	3.499	164.228	0.000	167.727
3.000	S300	1.527	4.676	0.000	6.203
4.000	S400	1.527	1.574	0.000	3.101
3.001	S301	3.049	2.756	0.000	5.804
1.004	S104	0.000	164.228	0.000	164.228
5.000	S500	1.527	0.733	0.000	2.260
5.001	S501	2.171	0.762	0.000	2.934
6.000	S600	0.382	0.106	0.000	0.488
6.001	S601	0.434	0.089	0.000	0.523
6.002	S602	0.500	1.099	0.000	1.599
5.002	S502	0.619	0.325	0.000	0.944
5.003	S503	2.420	0.643	0.000	3.063
7.000	S700	0.382	0.141	0.000	0.523
7.001	S701	0.410	0.148	0.000	0.558
5.004	S504	2.584	0.646	0.000	3.231
1.005	S105	4.038	1.883	0.000	5.921
8.000	S800	1.301	1.981	0.000	3.282
1.006	S106	4.188	0.035	0.000	4.223
1.007	FW105	2.709	0.128	0.000	2.836
Total		40.361	349.041	0.000	389.402

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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	S100	1.527	0.247	0.000	1.774
1.001	S101	1.600	0.715	0.000	2.315
1.002	S102	0.523	0.594	0.000	1.117
2.000	S200	1.527	0.498	0.000	2.025
2.001	S201	1.917	0.631	0.000	2.548
1.003	S103	3.499	160.749	0.000	164.248
3.000	S300	1.527	4.586	0.000	6.113
4.000	S400	1.527	1.523	0.000	3.050
3.001	S301	3.049	2.681	0.000	5.730
1.004	S104	0.000	159.192	0.000	159.192
5.000	S500	1.527	0.712	0.000	2.239
5.001	S501	2.171	0.726	0.000	2.898
6.000	S600	0.382	0.095	0.000	0.477
6.001	S601	0.434	0.078	0.000	0.512
6.002	S602	0.500	1.075	0.000	1.575
5.002	S502	0.619	0.262	0.000	0.881
5.003	S503	2.420	0.558	0.000	2.978
7.000	S700	0.382	0.131	0.000	0.512
7.001	S701	0.410	0.132	0.000	0.542
5.004	S504	2.584	0.551	0.000	3.135
1.005	S105	4.038	1.717	0.000	5.755
8.000	S800	1.301	1.927	0.000	3.228
1.006	S106	4.188	0.011	0.000	4.199
1.007	FW105	2.709	0.117	0.000	2.826
Total		40.361	339.510	0.000	379.871

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Summary Wizard of 15 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	15 minute 1 year Summer I+0%	32.600	31.275	-0.125	0.000	0.07	
1.001	S101	15 minute 1 year Summer I+0%	32.400	31.031	-0.179	0.000	0.09	
1.002	S102	15 minute 1 year Summer I+0%	32.600	30.801	-0.174	0.000	0.12	
2.000	S200	15 minute 1 year Summer I+0%	32.600	31.300	-0.100	0.000	0.24	
2.001	S201	15 minute 1 year Summer I+0%	32.500	30.862	-0.168	0.000	0.14	
1.003	S103	15 minute 1 year Summer I+0%	32.380	30.420	-1.181	0.000	0.01	
3.000	S300	15 minute 1 year Summer I+0%	32.600	31.336	-0.214	0.000	0.18	
4.000	S400	15 minute 1 year Summer I+0%	32.600	31.326	-0.149	0.000	0.25	
3.001	S301	15 minute 1 year Summer I+0%	32.600	30.584	-0.261	0.000	0.20	
1.004	S104	15 minute 1 year Summer I+0%	32.380	30.358	-1.063	0.000	0.01	
5.000	S500	15 minute 1 year Summer I+0%	32.600	31.306	-0.094	0.000	0.29	
5.001	S501	15 minute 1 year Summer I+0%	32.600	30.737	-0.168	0.000	0.14	
6.000	S600	15 minute 1 year Summer I+0%	32.600	31.281	-0.119	0.000	0.09	
6.001	S601	15 minute 1 year Summer I+0%	32.600	31.099	-0.116	0.000	0.11	
6.002	S602	15 minute 1 year Summer I+0%	32.600	30.881	-0.174	0.000	0.12	
5.002	S502	15 minute 1 year Summer I+0%	32.600	30.513	-0.197	0.000	0.26	
5.003	S503	15 minute 1 year Summer I+0%	32.500	30.452	-0.208	0.000	0.20	
7.000	S700	15 minute 1 year Summer I+0%	32.600	31.285	-0.115	0.000	0.12	
7.001	S701	15 minute 1 year Summer I+0%	32.600	31.171	-0.129	0.000	0.05	

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

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.2	OK
1.001	S101	4.8	OK
1.002	S102	6.0	OK
2.000	S200	4.6	OK
2.001	S201	8.1	OK
1.003	S103	23.4	OK
3.000	S300	19.4	OK
4.000	S400	15.3	OK
3.001	S301	34.9	OK
1.004	S104	47.1	OK
5.000	S500	5.5	OK
5.001	S501	6.8	OK
6.000	S600	2.5	OK
6.001	S601	2.8	OK
6.002	S602	6.3	OK
5.002	S502	15.7	OK
5.003	S503	15.7	OK
7.000	S700	2.1	OK
7.001	S701	2.1	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	15 minute 1 year Summer I+0%	32.550	30.368	-0.197	0.000	0.25	
1.005	S105	15 minute 1 year Summer I+0%	32.380	30.359	-0.111	0.000	0.04	
8.000	S800	15 minute 1 year Summer I+0%	32.400	31.305	-0.170	0.000	0.13	
1.006	S106	15 minute 1 year Summer I+0%	32.380	30.356	0.196	0.000	0.46	
1.007	FW105	15 minute 1 year Summer I+0%	32.380	30.018	-0.117	0.000	0.11	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	19.6	OK
1.005	S105	4.9	OK
8.000	S800	9.5	OK
1.006	S106	5.0	SURCHARGED
1.007	FW105	5.0	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	30 minute 1 year Summer I+0%	32.600	31.274	-0.126	0.000	0.06	
1.001	S101	30 minute 1 year Summer I+0%	32.400	31.030	-0.180	0.000	0.09	
1.002	S102	30 minute 1 year Summer I+0%	32.600	30.799	-0.176	0.000	0.11	
2.000	S200	30 minute 1 year Summer I+0%	32.600	31.297	-0.103	0.000	0.22	
2.001	S201	30 minute 1 year Summer I+0%	32.500	30.860	-0.170	0.000	0.14	
1.003	S103	30 minute 1 year Summer I+0%	32.380	30.419	-1.182	0.000	0.01	
3.000	S300	30 minute 1 year Summer I+0%	32.600	31.331	-0.219	0.000	0.16	
4.000	S400	30 minute 1 year Summer I+0%	32.600	31.322	-0.153	0.000	0.23	
3.001	S301	30 minute 1 year Summer I+0%	32.600	30.579	-0.266	0.000	0.19	
1.004	S104	30 minute 1 year Summer I+0%	32.380	30.396	-1.025	0.000	0.01	
5.000	S500	30 minute 1 year Summer I+0%	32.600	31.303	-0.097	0.000	0.27	
5.001	S501	30 minute 1 year Summer I+0%	32.600	30.734	-0.171	0.000	0.13	
6.000	S600	30 minute 1 year Summer I+0%	32.600	31.279	-0.121	0.000	0.09	
6.001	S601	30 minute 1 year Summer I+0%	32.600	31.097	-0.118	0.000	0.10	
6.002	S602	30 minute 1 year Summer I+0%	32.600	30.879	-0.176	0.000	0.11	
5.002	S502	30 minute 1 year Summer I+0%	32.600	30.509	-0.201	0.000	0.24	
5.003	S503	30 minute 1 year Summer I+0%	32.500	30.449	-0.211	0.000	0.19	
7.000	S700	30 minute 1 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11	
7.001	S701	30 minute 1 year Summer I+0%	32.600	31.170	-0.130	0.000	0.04	

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Summary Wizard of 30 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.1	OK
1.001	S101	4.5	OK
1.002	S102	5.6	OK
2.000	S200	4.2	OK
2.001	S201	7.6	OK
1.003	S103	20.1	OK
3.000	S300	18.0	OK
4.000	S400	14.2	OK
3.001	S301	32.1	OK
1.004	S104	38.6	OK
5.000	S500	5.0	OK
5.001	S501	6.2	OK
6.000	S600	2.2	OK
6.001	S601	2.6	OK
6.002	S602	5.9	OK
5.002	S502	14.6	OK
5.003	S503	14.6	OK
7.000	S700	2.0	OK
7.001	S701	2.0	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	30 minute 1 year Summer I+0%	32.550	30.397	-0.168	0.000	0.24	
1.005	S105	30 minute 1 year Summer I+0%	32.380	30.396	-0.074	0.000	0.04	
8.000	S800	30 minute 1 year Summer I+0%	32.400	31.302	-0.173	0.000	0.12	
1.006	S106	30 minute 1 year Summer I+0%	32.380	30.393	0.233	0.000	0.48	
1.007	FW105	30 minute 1 year Summer I+0%	32.380	30.019	-0.116	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	18.3	OK
1.005	S105	5.1	OK
8.000	S800	8.8	OK
1.006	S106	5.2	SURCHARGED
1.007	FW105	5.2	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	60 minute 1 year Summer I+0%	32.600	31.271	-0.129	0.000	0.05	
1.001	S101	60 minute 1 year Summer I+0%	32.400	31.024	-0.186	0.000	0.07	
1.002	S102	60 minute 1 year Summer I+0%	32.600	30.795	-0.180	0.000	0.09	
2.000	S200	60 minute 1 year Summer I+0%	32.600	31.291	-0.109	0.000	0.17	
2.001	S201	60 minute 1 year Summer I+0%	32.500	30.854	-0.176	0.000	0.11	
1.003	S103	60 minute 1 year Summer I+0%	32.380	30.426	-1.175	0.000	0.00	
3.000	S300	60 minute 1 year Summer I+0%	32.600	31.320	-0.230	0.000	0.13	
4.000	S400	60 minute 1 year Summer I+0%	32.600	31.313	-0.162	0.000	0.17	
3.001	S301	60 minute 1 year Summer I+0%	32.600	30.564	-0.281	0.000	0.14	
1.004	S104	60 minute 1 year Summer I+0%	32.380	30.425	-0.996	0.000	0.01	
5.000	S500	60 minute 1 year Summer I+0%	32.600	31.296	-0.104	0.000	0.21	
5.001	S501	60 minute 1 year Summer I+0%	32.600	30.728	-0.177	0.000	0.10	
6.000	S600	60 minute 1 year Summer I+0%	32.600	31.275	-0.125	0.000	0.07	
6.001	S601	60 minute 1 year Summer I+0%	32.600	31.093	-0.122	0.000	0.08	
6.002	S602	60 minute 1 year Summer I+0%	32.600	30.875	-0.180	0.000	0.09	
5.002	S502	60 minute 1 year Summer I+0%	32.600	30.498	-0.212	0.000	0.19	
5.003	S503	60 minute 1 year Summer I+0%	32.500	30.437	-0.223	0.000	0.15	
7.000	S700	60 minute 1 year Summer I+0%	32.600	31.280	-0.120	0.000	0.09	
7.001	S701	60 minute 1 year Summer I+0%	32.600	31.168	-0.132	0.000	0.03	

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

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	0.9	OK
1.001	S101	3.6	OK
1.002	S102	4.5	OK
2.000	S200	3.2	OK
2.001	S201	6.0	OK
1.003	S103	15.0	OK
3.000	S300	13.8	OK
4.000	S400	10.8	OK
3.001	S301	24.7	OK
1.004	S104	27.9	OK
5.000	S500	3.9	OK
5.001	S501	4.8	OK
6.000	S600	1.7	OK
6.001	S601	2.0	OK
6.002	S602	4.7	OK
5.002	S502	11.6	OK
5.003	S503	11.6	OK
7.000	S700	1.5	OK
7.001	S701	1.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	60 minute 1 year Summer I+0%	32.550	30.426	-0.139	0.000	0.19	
1.005	S105	60 minute 1 year Summer I+0%	32.380	30.425	-0.045	0.000	0.05	
8.000	S800	60 minute 1 year Summer I+0%	32.400	31.296	-0.179	0.000	0.09	
1.006	S106	60 minute 1 year Summer I+0%	32.380	30.422	0.262	0.000	0.50	
1.007	FW105	60 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	14.3	OK
1.005	S105	5.3	OK
8.000	S800	6.7	OK
1.006	S106	5.4	SURCHARGED
1.007	FW105	5.4	OK

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

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 1 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
1.001	S101	120 minute 1 year Summer I+0%	32.400	31.017	-0.193	0.000	0.05
1.002	S102	120 minute 1 year Summer I+0%	32.600	30.786	-0.189	0.000	0.06
2.000	S200	120 minute 1 year Summer I+0%	32.600	31.284	-0.116	0.000	0.12
2.001	S201	120 minute 1 year Summer I+0%	32.500	30.845	-0.185	0.000	0.07
1.003	S103	120 minute 1 year Summer I+0%	32.380	30.440	-1.161	0.000	0.00
3.000	S300	120 minute 1 year Summer I+0%	32.600	31.309	-0.241	0.000	0.09
4.000	S400	120 minute 1 year Summer I+0%	32.600	31.302	-0.173	0.000	0.12
3.001	S301	120 minute 1 year Summer I+0%	32.600	30.549	-0.296	0.000	0.10
1.004	S104	120 minute 1 year Summer I+0%	32.380	30.440	-0.981	0.000	0.00
5.000	S500	120 minute 1 year Summer I+0%	32.600	31.287	-0.113	0.000	0.14
5.001	S501	120 minute 1 year Summer I+0%	32.600	30.719	-0.186	0.000	0.07
6.000	S600	120 minute 1 year Summer I+0%	32.600	31.270	-0.130	0.000	0.05
6.001	S601	120 minute 1 year Summer I+0%	32.600	31.088	-0.127	0.000	0.06
6.002	S602	120 minute 1 year Summer I+0%	32.600	30.866	-0.189	0.000	0.06
5.002	S502	120 minute 1 year Summer I+0%	32.600	30.483	-0.227	0.000	0.13
5.003	S503	120 minute 1 year Summer I+0%	32.500	30.441	-0.219	0.000	0.11
7.000	S700	120 minute 1 year Summer I+0%	32.600	31.274	-0.126	0.000	0.06
7.001	S701	120 minute 1 year Summer I+0%	32.600	31.165	-0.135	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.6	OK
1.002	S102		3.2	OK
2.000	S200		2.2	OK
2.001	S201		4.2	OK
1.003	S103		9.7	OK
3.000	S300		9.6	OK
4.000	S400		7.5	OK
3.001	S301		17.0	OK
1.004	S104		18.5	OK
5.000	S500		2.7	OK
5.001	S501		3.4	OK
6.000	S600		1.2	OK
6.001	S601		1.4	OK
6.002	S602		3.3	OK
5.002	S502		8.2	OK
5.003	S503		8.2	OK
7.000	S700		1.0	OK
7.001	S701		1.0	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 1 year Summer I+0%	32.550	30.440	-0.125	0.000	0.13
1.005	S105	120 minute 1 year Summer I+0%	32.380	30.440	-0.030	0.000	0.05
8.000	S800	120 minute 1 year Summer I+0%	32.400	31.287	-0.188	0.000	0.07
1.006	S106	120 minute 1 year Summer I+0%	32.380	30.434	0.274	0.000	0.51
1.007	FW105	120 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		10.0	OK
1.005	S105		5.4	OK
8.000	S800		4.7	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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Summary Wizard of 180 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 1 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
1.001	S101	180 minute 1 year Summer I+0%	32.400	31.014	-0.196	0.000	0.04
1.002	S102	180 minute 1 year Summer I+0%	32.600	30.782	-0.193	0.000	0.05
2.000	S200	180 minute 1 year Summer I+0%	32.600	31.280	-0.120	0.000	0.09
2.001	S201	180 minute 1 year Summer I+0%	32.500	30.840	-0.190	0.000	0.06
1.003	S103	180 minute 1 year Summer I+0%	32.380	30.442	-1.159	0.000	0.00
3.000	S300	180 minute 1 year Summer I+0%	32.600	31.301	-0.249	0.000	0.07
4.000	S400	180 minute 1 year Summer I+0%	32.600	31.296	-0.179	0.000	0.09
3.001	S301	180 minute 1 year Summer I+0%	32.600	30.539	-0.306	0.000	0.08
1.004	S104	180 minute 1 year Summer I+0%	32.380	30.442	-0.979	0.000	0.00
5.000	S500	180 minute 1 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11
5.001	S501	180 minute 1 year Summer I+0%	32.600	30.714	-0.191	0.000	0.06
6.000	S600	180 minute 1 year Summer I+0%	32.600	31.268	-0.132	0.000	0.04
6.001	S601	180 minute 1 year Summer I+0%	32.600	31.085	-0.130	0.000	0.04
6.002	S602	180 minute 1 year Summer I+0%	32.600	30.862	-0.193	0.000	0.05
5.002	S502	180 minute 1 year Summer I+0%	32.600	30.475	-0.235	0.000	0.11
5.003	S503	180 minute 1 year Summer I+0%	32.500	30.444	-0.216	0.000	0.08
7.000	S700	180 minute 1 year Summer I+0%	32.600	31.271	-0.129	0.000	0.05
7.001	S701	180 minute 1 year Summer I+0%	32.600	31.163	-0.137	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	OK
1.001	S101		2.0	OK
1.002	S102		2.6	OK
2.000	S200		1.7	OK
2.001	S201		3.3	OK
1.003	S103		7.5	OK
3.000	S300		7.5	OK
4.000	S400		5.9	OK
3.001	S301		13.4	OK
1.004	S104		14.3	OK
5.000	S500		2.1	OK
5.001	S501		2.7	OK
6.000	S600		0.9	OK
6.001	S601		1.1	OK
6.002	S602		2.6	OK
5.002	S502		6.5	OK
5.003	S503		6.5	OK
7.000	S700		0.8	OK
7.001	S701		0.8	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 1 year Summer I+0%	32.550	30.443	-0.122	0.000	0.10
1.005	S105	180 minute 1 year Summer I+0%	32.380	30.442	-0.028	0.000	0.05
8.000	S800	180 minute 1 year Summer I+0%	32.400	31.283	-0.192	0.000	0.05
1.006	S106	180 minute 1 year Summer I+0%	32.380	30.437	0.277	0.000	0.51
1.007	FW105	180 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.9	OK
1.005	S105		5.3	OK
8.000	S800		3.7	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 1 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
1.001	S101	240 minute 1 year Summer I+0%	32.400	31.011	-0.199	0.000	0.03
1.002	S102	240 minute 1 year Summer I+0%	32.600	30.779	-0.196	0.000	0.04
2.000	S200	240 minute 1 year Summer I+0%	32.600	31.277	-0.123	0.000	0.08
2.001	S201	240 minute 1 year Summer I+0%	32.500	30.837	-0.193	0.000	0.05
1.003	S103	240 minute 1 year Summer I+0%	32.380	30.442	-1.159	0.000	0.00
3.000	S300	240 minute 1 year Summer I+0%	32.600	31.296	-0.254	0.000	0.06
4.000	S400	240 minute 1 year Summer I+0%	32.600	31.292	-0.183	0.000	0.08
3.001	S301	240 minute 1 year Summer I+0%	32.600	30.532	-0.313	0.000	0.06
1.004	S104	240 minute 1 year Summer I+0%	32.380	30.442	-0.979	0.000	0.00
5.000	S500	240 minute 1 year Summer I+0%	32.600	31.281	-0.119	0.000	0.09
5.001	S501	240 minute 1 year Summer I+0%	32.600	30.711	-0.194	0.000	0.05
6.000	S600	240 minute 1 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
6.001	S601	240 minute 1 year Summer I+0%	32.600	31.083	-0.132	0.000	0.04
6.002	S602	240 minute 1 year Summer I+0%	32.600	30.859	-0.196	0.000	0.04
5.002	S502	240 minute 1 year Summer I+0%	32.600	30.470	-0.240	0.000	0.09
5.003	S503	240 minute 1 year Summer I+0%	32.500	30.443	-0.217	0.000	0.07
7.000	S700	240 minute 1 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
7.001	S701	240 minute 1 year Summer I+0%	32.600	31.160	-0.140	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.7	OK
1.002	S102		2.1	OK
2.000	S200		1.5	OK
2.001	S201		2.8	OK
1.003	S103		6.4	OK
3.000	S300		6.3	OK
4.000	S400		4.9	OK
3.001	S301		11.2	OK
1.004	S104		12.1	OK
5.000	S500		1.7	OK
5.001	S501		2.2	OK
6.000	S600		0.8	OK
6.001	S601		0.9	OK
6.002	S602		2.2	OK
5.002	S502		5.4	OK
5.003	S503		5.4	OK
7.000	S700		0.7	OK
7.001	S701		0.7	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 1 year Summer I+0%	32.550	30.442	-0.123	0.000	0.09
1.005	S105	240 minute 1 year Summer I+0%	32.380	30.442	-0.028	0.000	0.05
8.000	S800	240 minute 1 year Summer I+0%	32.400	31.280	-0.195	0.000	0.04
1.006	S106	240 minute 1 year Summer I+0%	32.380	30.436	0.276	0.000	0.51
1.007	FW105	240 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.6	OK
1.005	S105		5.2	OK
8.000	S800		3.1	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 1 year Summer I+0%	32.600	31.262	-0.138	0.000	0.02
1.001	S101	360 minute 1 year Summer I+0%	32.400	31.009	-0.201	0.000	0.03
1.002	S102	360 minute 1 year Summer I+0%	32.600	30.776	-0.199	0.000	0.03
2.000	S200	360 minute 1 year Summer I+0%	32.600	31.273	-0.127	0.000	0.06
2.001	S201	360 minute 1 year Summer I+0%	32.500	30.833	-0.197	0.000	0.04
1.003	S103	360 minute 1 year Summer I+0%	32.380	30.436	-1.165	0.000	0.00
3.000	S300	360 minute 1 year Summer I+0%	32.600	31.290	-0.260	0.000	0.04
4.000	S400	360 minute 1 year Summer I+0%	32.600	31.286	-0.189	0.000	0.06
3.001	S301	360 minute 1 year Summer I+0%	32.600	30.523	-0.322	0.000	0.05
1.004	S104	360 minute 1 year Summer I+0%	32.380	30.436	-0.985	0.000	0.00
5.000	S500	360 minute 1 year Summer I+0%	32.600	31.276	-0.124	0.000	0.07
5.001	S501	360 minute 1 year Summer I+0%	32.600	30.708	-0.197	0.000	0.04
6.000	S600	360 minute 1 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
6.001	S601	360 minute 1 year Summer I+0%	32.600	31.082	-0.133	0.000	0.03
6.002	S602	360 minute 1 year Summer I+0%	32.600	30.856	-0.199	0.000	0.03
5.002	S502	360 minute 1 year Summer I+0%	32.600	30.461	-0.249	0.000	0.07
5.003	S503	360 minute 1 year Summer I+0%	32.500	30.437	-0.223	0.000	0.05
7.000	S700	360 minute 1 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	360 minute 1 year Summer I+0%	32.600	31.158	-0.142	0.000	0.01

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Summary Wizard of 360 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.3	OK
1.002	S102		1.7	OK
2.000	S200		1.1	OK
2.001	S201		2.2	OK
1.003	S103		5.1	OK
3.000	S300		4.8	OK
4.000	S400		3.8	OK
3.001	S301		8.6	OK
1.004	S104		9.6	OK
5.000	S500		1.3	OK
5.001	S501		1.7	OK
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.7	OK
5.002	S502		4.2	OK
5.003	S503		4.2	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 1 year Summer I+0%	32.550	30.437	-0.128	0.000	0.07
1.005	S105	360 minute 1 year Summer I+0%	32.380	30.436	-0.034	0.000	0.04
8.000	S800	360 minute 1 year Summer I+0%	32.400	31.276	-0.199	0.000	0.03
1.006	S106	360 minute 1 year Summer I+0%	32.380	30.431	0.271	0.000	0.50
1.007	FW105	360 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.1	OK
1.005	S105		5.1	OK
8.000	S800		2.3	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 1 year Summer I+0%	32.600	31.259	-0.141	0.000	0.01
1.001	S101	480 minute 1 year Summer I+0%	32.400	31.007	-0.203	0.000	0.02
1.002	S102	480 minute 1 year Summer I+0%	32.600	30.774	-0.201	0.000	0.03
2.000	S200	480 minute 1 year Summer I+0%	32.600	31.271	-0.129	0.000	0.05
2.001	S201	480 minute 1 year Summer I+0%	32.500	30.831	-0.199	0.000	0.03
1.003	S103	480 minute 1 year Summer I+0%	32.380	30.427	-1.174	0.000	0.00
3.000	S300	480 minute 1 year Summer I+0%	32.600	31.287	-0.263	0.000	0.04
4.000	S400	480 minute 1 year Summer I+0%	32.600	31.282	-0.193	0.000	0.05
3.001	S301	480 minute 1 year Summer I+0%	32.600	30.518	-0.327	0.000	0.04
1.004	S104	480 minute 1 year Summer I+0%	32.380	30.426	-0.995	0.000	0.00
5.000	S500	480 minute 1 year Summer I+0%	32.600	31.273	-0.127	0.000	0.06
5.001	S501	480 minute 1 year Summer I+0%	32.600	30.705	-0.200	0.000	0.03
6.000	S600	480 minute 1 year Summer I+0%	32.600	31.263	-0.137	0.000	0.02
6.001	S601	480 minute 1 year Summer I+0%	32.600	31.080	-0.135	0.000	0.02
6.002	S602	480 minute 1 year Summer I+0%	32.600	30.854	-0.201	0.000	0.03
5.002	S502	480 minute 1 year Summer I+0%	32.600	30.456	-0.254	0.000	0.06
5.003	S503	480 minute 1 year Summer I+0%	32.500	30.428	-0.232	0.000	0.04
7.000	S700	480 minute 1 year Summer I+0%	32.600	31.266	-0.134	0.000	0.02
7.001	S701	480 minute 1 year Summer I+0%	32.600	31.157	-0.143	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		1.1	OK
1.002	S102		1.4	OK
2.000	S200		0.9	OK
2.001	S201		1.8	OK
1.003	S103		4.4	OK
3.000	S300		3.9	OK
4.000	S400		3.1	OK
3.001	S301		7.0	OK
1.004	S104		8.3	OK
5.000	S500		1.1	OK
5.001	S501		1.4	OK
6.000	S600		0.5	OK
6.001	S601		0.6	OK
6.002	S602		1.4	OK
5.002	S502		3.4	OK
5.003	S503		3.4	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 1 year Summer I+0%	32.550	30.427	-0.138	0.000	0.05
1.005	S105	480 minute 1 year Summer I+0%	32.380	30.426	-0.044	0.000	0.04
8.000	S800	480 minute 1 year Summer I+0%	32.400	31.274	-0.201	0.000	0.03
1.006	S106	480 minute 1 year Summer I+0%	32.380	30.423	0.263	0.000	0.50
1.007	FW105	480 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.2	OK
1.005	S105		5.0	OK
8.000	S800		1.9	OK
1.006	S106		5.4	SURCHARGED
1.007	FW105		5.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 1 year Summer I+0%	32.600	31.258	-0.142	0.000	0.01
1.001	S101	600 minute 1 year Summer I+0%	32.400	31.004	-0.206	0.000	0.02
1.002	S102	600 minute 1 year Summer I+0%	32.600	30.773	-0.202	0.000	0.02
2.000	S200	600 minute 1 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
2.001	S201	600 minute 1 year Summer I+0%	32.500	30.829	-0.201	0.000	0.03
1.003	S103	600 minute 1 year Summer I+0%	32.380	30.417	-1.184	0.000	0.00
3.000	S300	600 minute 1 year Summer I+0%	32.600	31.284	-0.266	0.000	0.03
4.000	S400	600 minute 1 year Summer I+0%	32.600	31.280	-0.195	0.000	0.04
3.001	S301	600 minute 1 year Summer I+0%	32.600	30.515	-0.330	0.000	0.03
1.004	S104	600 minute 1 year Summer I+0%	32.380	30.416	-1.005	0.000	0.00
5.000	S500	600 minute 1 year Summer I+0%	32.600	31.271	-0.129	0.000	0.05
5.001	S501	600 minute 1 year Summer I+0%	32.600	30.704	-0.201	0.000	0.03
6.000	S600	600 minute 1 year Summer I+0%	32.600	31.261	-0.139	0.000	0.02
6.001	S601	600 minute 1 year Summer I+0%	32.600	31.079	-0.136	0.000	0.02
6.002	S602	600 minute 1 year Summer I+0%	32.600	30.853	-0.202	0.000	0.02
5.002	S502	600 minute 1 year Summer I+0%	32.600	30.452	-0.258	0.000	0.05
5.003	S503	600 minute 1 year Summer I+0%	32.500	30.418	-0.242	0.000	0.04
7.000	S700	600 minute 1 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
7.001	S701	600 minute 1 year Summer I+0%	32.600	31.156	-0.144	0.000	0.01

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Summary Wizard of 600 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.9	OK
1.002	S102		1.2	OK
2.000	S200		0.8	OK
2.001	S201		1.5	OK
1.003	S103		4.0	OK
3.000	S300		3.4	OK
4.000	S400		2.6	OK
3.001	S301		6.0	OK
1.004	S104		7.4	OK
5.000	S500		0.9	OK
5.001	S501		1.2	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.2	OK
5.002	S502		2.9	OK
5.003	S503		2.9	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 1 year Summer I+0%	32.550	30.417	-0.148	0.000	0.05
1.005	S105	600 minute 1 year Summer I+0%	32.380	30.416	-0.054	0.000	0.04
8.000	S800	600 minute 1 year Summer I+0%	32.400	31.273	-0.202	0.000	0.02
1.006	S106	600 minute 1 year Summer I+0%	32.380	30.413	0.253	0.000	0.49
1.007	FW105	600 minute 1 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.6	OK
1.005	S105		4.9	OK
8.000	S800		1.6	OK
1.006	S106		5.4	SURCHARGED
1.007	FW105		5.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 1 year Summer I+0%	32.600	31.257	-0.143	0.000	0.01
1.001	S101	720 minute 1 year Summer I+0%	32.400	31.002	-0.208	0.000	0.02
1.002	S102	720 minute 1 year Summer I+0%	32.600	30.771	-0.204	0.000	0.02
2.000	S200	720 minute 1 year Summer I+0%	32.600	31.268	-0.132	0.000	0.04
2.001	S201	720 minute 1 year Summer I+0%	32.500	30.828	-0.202	0.000	0.02
1.003	S103	720 minute 1 year Summer I+0%	32.380	30.407	-1.194	0.000	0.00
3.000	S300	720 minute 1 year Summer I+0%	32.600	31.283	-0.267	0.000	0.03
4.000	S400	720 minute 1 year Summer I+0%	32.600	31.278	-0.197	0.000	0.04
3.001	S301	720 minute 1 year Summer I+0%	32.600	30.513	-0.332	0.000	0.03
1.004	S104	720 minute 1 year Summer I+0%	32.380	30.405	-1.016	0.000	0.00
5.000	S500	720 minute 1 year Summer I+0%	32.600	31.270	-0.130	0.000	0.04
5.001	S501	720 minute 1 year Summer I+0%	32.600	30.703	-0.202	0.000	0.02
6.000	S600	720 minute 1 year Summer I+0%	32.600	31.260	-0.140	0.000	0.01
6.001	S601	720 minute 1 year Summer I+0%	32.600	31.077	-0.138	0.000	0.02
6.002	S602	720 minute 1 year Summer I+0%	32.600	30.851	-0.204	0.000	0.02
5.002	S502	720 minute 1 year Summer I+0%	32.600	30.449	-0.261	0.000	0.04
5.003	S503	720 minute 1 year Summer I+0%	32.500	30.407	-0.253	0.000	0.03
7.000	S700	720 minute 1 year Summer I+0%	32.600	31.263	-0.137	0.000	0.02
7.001	S701	720 minute 1 year Summer I+0%	32.600	31.155	-0.145	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.8	OK
1.002	S102		1.0	OK
2.000	S200		0.7	OK
2.001	S201		1.3	OK
1.003	S103		3.7	OK
3.000	S300		3.0	OK
4.000	S400		2.3	OK
3.001	S301		5.3	OK
1.004	S104		6.9	OK
5.000	S500		0.8	OK
5.001	S501		1.1	OK
6.000	S600		0.4	OK
6.001	S601		0.4	OK
6.002	S602		1.1	OK
5.002	S502		2.6	OK
5.003	S503		2.6	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 1 year Summer I+0%	32.550	30.406	-0.159	0.000	0.04
1.005	S105	720 minute 1 year Summer I+0%	32.380	30.405	-0.065	0.000	0.04
8.000	S800	720 minute 1 year Summer I+0%	32.400	31.272	-0.203	0.000	0.02
1.006	S106	720 minute 1 year Summer I+0%	32.380	30.402	0.242	0.000	0.49
1.007	FW105	720 minute 1 year Summer I+0%	32.380	30.019	-0.116	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.2	OK
1.005	S105		4.9	OK
8.000	S800		1.4	OK
1.006	S106		5.3	SURCHARGED
1.007	FW105		5.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 1 year Summer I+0%	32.600	31.256	-0.144	0.000	0.01
1.001	S101	960 minute 1 year Summer I+0%	32.400	30.999	-0.211	0.000	0.01
1.002	S102	960 minute 1 year Summer I+0%	32.600	30.767	-0.208	0.000	0.02
2.000	S200	960 minute 1 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
2.001	S201	960 minute 1 year Summer I+0%	32.500	30.825	-0.205	0.000	0.02
1.003	S103	960 minute 1 year Summer I+0%	32.380	30.403	-1.198	0.000	0.00
3.000	S300	960 minute 1 year Summer I+0%	32.600	31.280	-0.270	0.000	0.02
4.000	S400	960 minute 1 year Summer I+0%	32.600	31.276	-0.199	0.000	0.03
3.001	S301	960 minute 1 year Summer I+0%	32.600	30.510	-0.335	0.000	0.02
1.004	S104	960 minute 1 year Summer I+0%	32.380	30.383	-1.038	0.000	0.00
5.000	S500	960 minute 1 year Summer I+0%	32.600	31.268	-0.132	0.000	0.04
5.001	S501	960 minute 1 year Summer I+0%	32.600	30.699	-0.206	0.000	0.02
6.000	S600	960 minute 1 year Summer I+0%	32.600	31.258	-0.142	0.000	0.01
6.001	S601	960 minute 1 year Summer I+0%	32.600	31.075	-0.140	0.000	0.01
6.002	S602	960 minute 1 year Summer I+0%	32.600	30.847	-0.208	0.000	0.02
5.002	S502	960 minute 1 year Summer I+0%	32.600	30.446	-0.264	0.000	0.03
5.003	S503	960 minute 1 year Summer I+0%	32.500	30.393	-0.267	0.000	0.03
7.000	S700	960 minute 1 year Summer I+0%	32.600	31.261	-0.139	0.000	0.02
7.001	S701	960 minute 1 year Summer I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.7	OK
1.002	S102		0.8	OK
2.000	S200		0.6	OK
2.001	S201		1.1	OK
1.003	S103		3.3	OK
3.000	S300		2.4	OK
4.000	S400		1.9	OK
3.001	S301		4.3	OK
1.004	S104		6.1	OK
5.000	S500		0.7	OK
5.001	S501		0.9	OK
6.000	S600		0.3	OK
6.001	S601		0.4	OK
6.002	S602		0.9	OK
5.002	S502		2.1	OK
5.003	S503		2.1	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 1 year Summer I+0%	32.550	30.384	-0.181	0.000	0.03
1.005	S105	960 minute 1 year Summer I+0%	32.380	30.383	-0.087	0.000	0.04
8.000	S800	960 minute 1 year Summer I+0%	32.400	31.268	-0.207	0.000	0.02
1.006	S106	960 minute 1 year Summer I+0%	32.380	30.380	0.220	0.000	0.47
1.007	FW105	960 minute 1 year Summer I+0%	32.380	30.019	-0.116	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.6	OK
1.005	S105		4.7	OK
8.000	S800		1.2	OK
1.006	S106		5.1	SURCHARGED
1.007	FW105		5.1	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 1 year Summer I+0%	32.600	31.254	-0.146	0.000	0.01
1.001	S101	1440 minute 1 year Summer I+0%	32.400	30.995	-0.215	0.000	0.01
1.002	S102	1440 minute 1 year Summer I+0%	32.600	30.763	-0.212	0.000	0.01
2.000	S200	1440 minute 1 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
2.001	S201	1440 minute 1 year Summer I+0%	32.500	30.820	-0.210	0.000	0.01
1.003	S103	1440 minute 1 year Summer I+0%	32.380	30.402	-1.199	0.000	0.00
3.000	S300	1440 minute 1 year Summer I+0%	32.600	31.274	-0.276	0.000	0.02
4.000	S400	1440 minute 1 year Summer I+0%	32.600	31.273	-0.202	0.000	0.02
3.001	S301	1440 minute 1 year Summer I+0%	32.600	30.503	-0.342	0.000	0.02
1.004	S104	1440 minute 1 year Summer I+0%	32.380	30.344	-1.077	0.000	0.00
5.000	S500	1440 minute 1 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
5.001	S501	1440 minute 1 year Summer I+0%	32.600	30.695	-0.210	0.000	0.01
6.000	S600	1440 minute 1 year Summer I+0%	32.600	31.256	-0.144	0.000	0.01
6.001	S601	1440 minute 1 year Summer I+0%	32.600	31.073	-0.142	0.000	0.01
6.002	S602	1440 minute 1 year Summer I+0%	32.600	30.843	-0.212	0.000	0.01
5.002	S502	1440 minute 1 year Summer I+0%	32.600	30.442	-0.268	0.000	0.03
5.003	S503	1440 minute 1 year Summer I+0%	32.500	30.389	-0.271	0.000	0.02
7.000	S700	1440 minute 1 year Summer I+0%	32.600	31.258	-0.142	0.000	0.01
7.001	S701	1440 minute 1 year Summer I+0%	32.600	31.153	-0.147	0.000	0.00

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.5	OK
1.002	S102		0.6	OK
2.000	S200		0.4	OK
2.001	S201		0.8	OK
1.003	S103		2.5	OK
3.000	S300		1.8	OK
4.000	S400		1.4	OK
3.001	S301		3.3	OK
1.004	S104		5.0	OK
5.000	S500		0.5	OK
5.001	S501		0.7	OK
6.000	S600		0.2	OK
6.001	S601		0.3	OK
6.002	S602		0.7	OK
5.002	S502		1.6	OK
5.003	S503		1.6	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 1 year Summer I+0%	32.550	30.344	-0.221	0.000	0.03
1.005	S105	1440 minute 1 year Summer I+0%	32.380	30.344	-0.126	0.000	0.04
8.000	S800	1440 minute 1 year Summer I+0%	32.400	31.263	-0.212	0.000	0.01
1.006	S106	1440 minute 1 year Summer I+0%	32.380	30.341	0.181	0.000	0.45
1.007	FW105	1440 minute 1 year Summer I+0%	32.380	30.018	-0.117	0.000	0.11

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.0	OK
1.005	S105		4.5	OK
8.000	S800		0.9	OK
1.006	S106		4.9	SURCHARGED
1.007	FW105		4.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	15 minute 2 year Summer I+0%	32.600	31.280	-0.120	0.000	0.09	
1.001	S101	15 minute 2 year Summer I+0%	32.400	31.037	-0.173	0.000	0.12	
1.002	S102	15 minute 2 year Summer I+0%	32.600	30.808	-0.167	0.000	0.15	
2.000	S200	15 minute 2 year Summer I+0%	32.600	31.307	-0.093	0.000	0.31	
2.001	S201	15 minute 2 year Summer I+0%	32.500	30.871	-0.159	0.000	0.19	
1.003	S103	15 minute 2 year Summer I+0%	32.380	30.426	-1.175	0.000	0.01	
3.000	S300	15 minute 2 year Summer I+0%	32.600	31.348	-0.202	0.000	0.23	
4.000	S400	15 minute 2 year Summer I+0%	32.600	31.338	-0.137	0.000	0.32	
3.001	S301	15 minute 2 year Summer I+0%	32.600	30.600	-0.245	0.000	0.26	
1.004	S104	15 minute 2 year Summer I+0%	32.380	30.404	-1.017	0.000	0.01	
5.000	S500	15 minute 2 year Summer I+0%	32.600	31.314	-0.086	0.000	0.38	
5.001	S501	15 minute 2 year Summer I+0%	32.600	30.746	-0.159	0.000	0.19	
6.000	S600	15 minute 2 year Summer I+0%	32.600	31.285	-0.115	0.000	0.12	
6.001	S601	15 minute 2 year Summer I+0%	32.600	31.103	-0.112	0.000	0.15	
6.002	S602	15 minute 2 year Summer I+0%	32.600	30.889	-0.166	0.000	0.15	
5.002	S502	15 minute 2 year Summer I+0%	32.600	30.529	-0.181	0.000	0.33	
5.003	S503	15 minute 2 year Summer I+0%	32.500	30.465	-0.195	0.000	0.26	
7.000	S700	15 minute 2 year Summer I+0%	32.600	31.290	-0.110	0.000	0.16	
7.001	S701	15 minute 2 year Summer I+0%	32.600	31.174	-0.126	0.000	0.06	

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

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.6	OK
1.001	S101	6.3	OK
1.002	S102	7.7	OK
2.000	S200	5.9	OK
2.001	S201	10.5	OK
1.003	S103	28.4	OK
3.000	S300	25.1	OK
4.000	S400	19.8	OK
3.001	S301	45.1	OK
1.004	S104	57.2	OK
5.000	S500	7.1	OK
5.001	S501	8.8	OK
6.000	S600	3.2	OK
6.001	S601	3.7	OK
6.002	S602	8.1	OK
5.002	S502	20.3	OK
5.003	S503	20.4	OK
7.000	S700	2.8	OK
7.001	S701	2.8	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	15 minute 2 year Summer I+0%	32.550	30.405	-0.160	0.000	0.33	
1.005	S105	15 minute 2 year Summer I+0%	32.380	30.404	-0.066	0.000	0.05	
8.000	S800	15 minute 2 year Summer I+0%	32.400	31.313	-0.162	0.000	0.17	
1.006	S106	15 minute 2 year Summer I+0%	32.380	30.401	0.241	0.000	0.49	
1.007	FW105	15 minute 2 year Summer I+0%	32.380	30.019	-0.116	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	25.3	OK
1.005	S105	5.2	OK
8.000	S800	12.3	OK
1.006	S106	5.3	SURCHARGED
1.007	FW105	5.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	30 minute 2 year Summer I+0%	32.600	31.278	-0.122	0.000	0.08	
1.001	S101	30 minute 2 year Summer I+0%	32.400	31.035	-0.175	0.000	0.11	
1.002	S102	30 minute 2 year Summer I+0%	32.600	30.806	-0.169	0.000	0.14	
2.000	S200	30 minute 2 year Summer I+0%	32.600	31.304	-0.096	0.000	0.28	
2.001	S201	30 minute 2 year Summer I+0%	32.500	30.868	-0.162	0.000	0.17	
1.003	S103	30 minute 2 year Summer I+0%	32.380	30.451	-1.150	0.000	0.01	
3.000	S300	30 minute 2 year Summer I+0%	32.600	31.343	-0.207	0.000	0.21	
4.000	S400	30 minute 2 year Summer I+0%	32.600	31.333	-0.142	0.000	0.29	
3.001	S301	30 minute 2 year Summer I+0%	32.600	30.594	-0.251	0.000	0.24	
1.004	S104	30 minute 2 year Summer I+0%	32.380	30.451	-0.970	0.000	0.01	
5.000	S500	30 minute 2 year Summer I+0%	32.600	31.311	-0.089	0.000	0.35	
5.001	S501	30 minute 2 year Summer I+0%	32.600	30.742	-0.163	0.000	0.17	
6.000	S600	30 minute 2 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11	
6.001	S601	30 minute 2 year Summer I+0%	32.600	31.101	-0.114	0.000	0.13	
6.002	S602	30 minute 2 year Summer I+0%	32.600	30.886	-0.169	0.000	0.14	
5.002	S502	30 minute 2 year Summer I+0%	32.600	30.524	-0.186	0.000	0.31	
5.003	S503	30 minute 2 year Summer I+0%	32.500	30.461	-0.199	0.000	0.25	
7.000	S700	30 minute 2 year Summer I+0%	32.600	31.288	-0.112	0.000	0.15	
7.001	S701	30 minute 2 year Summer I+0%	32.600	31.172	-0.128	0.000	0.05	

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.4	OK
1.001	S101	5.9	OK
1.002	S102	7.3	OK
2.000	S200	5.4	OK
2.001	S201	9.9	OK
1.003	S103	23.6	OK
3.000	S300	23.0	OK
4.000	S400	18.3	OK
3.001	S301	41.1	OK
1.004	S104	45.7	OK
5.000	S500	6.5	OK
5.001	S501	8.1	OK
6.000	S600	2.9	OK
6.001	S601	3.4	OK
6.002	S602	7.6	OK
5.002	S502	18.8	OK
5.003	S503	18.9	OK
7.000	S700	2.5	OK
7.001	S701	2.5	OK

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	30 minute 2 year Summer I+0%	32.550	30.451	-0.114	0.000	0.30	
1.005	S105	30 minute 2 year Summer I+0%	32.380	30.451	-0.019	0.000	0.05	
8.000	S800	30 minute 2 year Summer I+0%	32.400	31.310	-0.165	0.000	0.16	
1.006	S106	30 minute 2 year Summer I+0%	32.380	30.443	0.283	0.000	0.51	
1.007	FW105	30 minute 2 year Summer I+0%	32.380	30.020	-0.115	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	23.5	OK
1.005	S105	5.5	OK
8.000	S800	11.4	OK
1.006	S106	5.5	SURCHARGED
1.007	FW105	5.5	OK

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Summary Wizard of 60 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	60 minute 2 year Summer I+0%	32.600	31.274	-0.126	0.000	0.06	
1.001	S101	60 minute 2 year Summer I+0%	32.400	31.030	-0.180	0.000	0.09	
1.002	S102	60 minute 2 year Summer I+0%	32.600	30.800	-0.175	0.000	0.11	
2.000	S200	60 minute 2 year Summer I+0%	32.600	31.297	-0.103	0.000	0.21	
2.001	S201	60 minute 2 year Summer I+0%	32.500	30.860	-0.170	0.000	0.14	
1.003	S103	60 minute 2 year Summer I+0%	32.380	30.488	-1.113	0.000	0.00	
3.000	S300	60 minute 2 year Summer I+0%	32.600	31.330	-0.220	0.000	0.16	
4.000	S400	60 minute 2 year Summer I+0%	32.600	31.321	-0.154	0.000	0.22	
3.001	S301	60 minute 2 year Summer I+0%	32.600	30.577	-0.268	0.000	0.18	
1.004	S104	60 minute 2 year Summer I+0%	32.380	30.488	-0.933	0.000	0.01	
5.000	S500	60 minute 2 year Summer I+0%	32.600	31.302	-0.098	0.000	0.26	
5.001	S501	60 minute 2 year Summer I+0%	32.600	30.734	-0.171	0.000	0.13	
6.000	S600	60 minute 2 year Summer I+0%	32.600	31.279	-0.121	0.000	0.08	
6.001	S601	60 minute 2 year Summer I+0%	32.600	31.097	-0.118	0.000	0.10	
6.002	S602	60 minute 2 year Summer I+0%	32.600	30.880	-0.175	0.000	0.11	
5.002	S502	60 minute 2 year Summer I+0%	32.600	30.510	-0.200	0.000	0.24	
5.003	S503	60 minute 2 year Summer I+0%	32.500	30.489	-0.171	0.000	0.19	
7.000	S700	60 minute 2 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11	
7.001	S701	60 minute 2 year Summer I+0%	32.600	31.170	-0.130	0.000	0.04	

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.1	OK
1.001	S101	4.6	OK
1.002	S102	5.8	OK
2.000	S200	4.1	OK
2.001	S201	7.7	OK
1.003	S103	15.8	OK
3.000	S300	17.6	OK
4.000	S400	13.8	OK
3.001	S301	31.4	OK
1.004	S104	28.7	OK
5.000	S500	4.9	OK
5.001	S501	6.2	OK
6.000	S600	2.2	OK
6.001	S601	2.6	OK
6.002	S602	6.0	OK
5.002	S502	14.8	OK
5.003	S503	14.8	OK
7.000	S700	1.9	OK
7.001	S701	1.9	OK

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	60 minute 2 year Summer I+0%	32.550	30.489	-0.076	0.000	0.23	
1.005	S105	60 minute 2 year Summer I+0%	32.380	30.488	0.018	0.000	0.05	
8.000	S800	60 minute 2 year Summer I+0%	32.400	31.302	-0.173	0.000	0.12	
1.006	S106	60 minute 2 year Summer I+0%	32.380	30.485	0.325	0.000	0.53	
1.007	FW105	60 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	17.9	OK
1.005	S105	5.7	SURCHARGED
8.000	S800	8.6	OK
1.006	S106	5.8	SURCHARGED
1.007	FW105	5.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 2 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
1.001	S101	120 minute 2 year Summer I+0%	32.400	31.021	-0.189	0.000	0.06
1.002	S102	120 minute 2 year Summer I+0%	32.600	30.792	-0.183	0.000	0.08
2.000	S200	120 minute 2 year Summer I+0%	32.600	31.288	-0.112	0.000	0.15
2.001	S201	120 minute 2 year Summer I+0%	32.500	30.851	-0.179	0.000	0.09
1.003	S103	120 minute 2 year Summer I+0%	32.380	30.507	-1.094	0.000	0.00
3.000	S300	120 minute 2 year Summer I+0%	32.600	31.316	-0.234	0.000	0.11
4.000	S400	120 minute 2 year Summer I+0%	32.600	31.308	-0.167	0.000	0.15
3.001	S301	120 minute 2 year Summer I+0%	32.600	30.557	-0.288	0.000	0.12
1.004	S104	120 minute 2 year Summer I+0%	32.380	30.507	-0.914	0.000	0.00
5.000	S500	120 minute 2 year Summer I+0%	32.600	31.292	-0.108	0.000	0.18
5.001	S501	120 minute 2 year Summer I+0%	32.600	30.725	-0.180	0.000	0.09
6.000	S600	120 minute 2 year Summer I+0%	32.600	31.273	-0.127	0.000	0.06
6.001	S601	120 minute 2 year Summer I+0%	32.600	31.091	-0.124	0.000	0.07
6.002	S602	120 minute 2 year Summer I+0%	32.600	30.871	-0.184	0.000	0.08
5.002	S502	120 minute 2 year Summer I+0%	32.600	30.509	-0.201	0.000	0.17
5.003	S503	120 minute 2 year Summer I+0%	32.500	30.508	-0.152	0.000	0.13
7.000	S700	120 minute 2 year Summer I+0%	32.600	31.277	-0.123	0.000	0.08
7.001	S701	120 minute 2 year Summer I+0%	32.600	31.167	-0.133	0.000	0.03

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.7	OK
1.001	S101		3.2	OK
1.002	S102		4.0	OK
2.000	S200		2.8	OK
2.001	S201		5.3	OK
1.003	S103		9.4	OK
3.000	S300		12.0	OK
4.000	S400		9.4	OK
3.001	S301		21.4	OK
1.004	S104		17.8	OK
5.000	S500		3.3	OK
5.001	S501		4.2	OK
6.000	S600		1.5	OK
6.001	S601		1.8	OK
6.002	S602		4.2	OK
5.002	S502		10.3	OK
5.003	S503		10.3	OK
7.000	S700		1.3	OK
7.001	S701		1.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 2 year Summer I+0%	32.550	30.508	-0.057	0.000	0.16
1.005	S105	120 minute 2 year Summer I+0%	32.380	30.507	0.037	0.000	0.05
8.000	S800	120 minute 2 year Summer I+0%	32.400	31.293	-0.182	0.000	0.08
1.006	S106	120 minute 2 year Summer I+0%	32.380	30.504	0.344	0.000	0.54
1.007	FW105	120 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		12.3	OK
1.005	S105		5.8	SURCHARGED
8.000	S800		5.8	OK
1.006	S106		5.9	SURCHARGED
1.007	FW105		5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 2 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
1.001	S101	180 minute 2 year Summer I+0%	32.400	31.017	-0.193	0.000	0.05
1.002	S102	180 minute 2 year Summer I+0%	32.600	30.786	-0.189	0.000	0.06
2.000	S200	180 minute 2 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11
2.001	S201	180 minute 2 year Summer I+0%	32.500	30.845	-0.185	0.000	0.07
1.003	S103	180 minute 2 year Summer I+0%	32.380	30.510	-1.091	0.000	0.00
3.000	S300	180 minute 2 year Summer I+0%	32.600	31.308	-0.242	0.000	0.09
4.000	S400	180 minute 2 year Summer I+0%	32.600	31.301	-0.174	0.000	0.12
3.001	S301	180 minute 2 year Summer I+0%	32.600	30.548	-0.297	0.000	0.10
1.004	S104	180 minute 2 year Summer I+0%	32.380	30.510	-0.911	0.000	0.00
5.000	S500	180 minute 2 year Summer I+0%	32.600	31.287	-0.113	0.000	0.14
5.001	S501	180 minute 2 year Summer I+0%	32.600	30.719	-0.186	0.000	0.07
6.000	S600	180 minute 2 year Summer I+0%	32.600	31.270	-0.130	0.000	0.04
6.001	S601	180 minute 2 year Summer I+0%	32.600	31.087	-0.128	0.000	0.05
6.002	S602	180 minute 2 year Summer I+0%	32.600	30.866	-0.189	0.000	0.06
5.002	S502	180 minute 2 year Summer I+0%	32.600	30.512	-0.198	0.000	0.13
5.003	S503	180 minute 2 year Summer I+0%	32.500	30.511	-0.149	0.000	0.10
7.000	S700	180 minute 2 year Summer I+0%	32.600	31.273	-0.127	0.000	0.06
7.001	S701	180 minute 2 year Summer I+0%	32.600	31.165	-0.135	0.000	0.02

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.5	OK
1.002	S102		3.2	OK
2.000	S200		2.2	OK
2.001	S201		4.1	OK
1.003	S103		7.3	OK
3.000	S300		9.3	OK
4.000	S400		7.3	OK
3.001	S301		16.6	OK
1.004	S104		14.0	OK
5.000	S500		2.6	OK
5.001	S501		3.3	OK
6.000	S600		1.2	OK
6.001	S601		1.4	OK
6.002	S602		3.3	OK
5.002	S502		8.0	OK
5.003	S503		8.0	OK
7.000	S700		1.0	OK
7.001	S701		1.0	OK

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 2 year Summer I+0%	32.550	30.511	-0.054	0.000	0.12
1.005	S105	180 minute 2 year Summer I+0%	32.380	30.510	0.040	0.000	0.05
8.000	S800	180 minute 2 year Summer I+0%	32.400	31.287	-0.188	0.000	0.06
1.006	S106	180 minute 2 year Summer I+0%	32.380	30.507	0.347	0.000	0.54
1.007	FW105	180 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		9.5	OK
1.005	S105		5.8	SURCHARGED
8.000	S800		4.5	OK
1.006	S106		5.9	SURCHARGED
1.007	FW105		5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 2 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
1.001	S101	240 minute 2 year Summer I+0%	32.400	31.014	-0.196	0.000	0.04
1.002	S102	240 minute 2 year Summer I+0%	32.600	30.783	-0.192	0.000	0.05
2.000	S200	240 minute 2 year Summer I+0%	32.600	31.281	-0.119	0.000	0.09
2.001	S201	240 minute 2 year Summer I+0%	32.500	30.841	-0.189	0.000	0.06
1.003	S103	240 minute 2 year Summer I+0%	32.380	30.508	-1.093	0.000	0.00
3.000	S300	240 minute 2 year Summer I+0%	32.600	31.302	-0.248	0.000	0.07
4.000	S400	240 minute 2 year Summer I+0%	32.600	31.297	-0.178	0.000	0.10
3.001	S301	240 minute 2 year Summer I+0%	32.600	30.540	-0.305	0.000	0.08
1.004	S104	240 minute 2 year Summer I+0%	32.380	30.509	-0.912	0.000	0.00
5.000	S500	240 minute 2 year Summer I+0%	32.600	31.284	-0.116	0.000	0.11
5.001	S501	240 minute 2 year Summer I+0%	32.600	30.715	-0.190	0.000	0.06
6.000	S600	240 minute 2 year Summer I+0%	32.600	31.268	-0.132	0.000	0.04
6.001	S601	240 minute 2 year Summer I+0%	32.600	31.085	-0.130	0.000	0.05
6.002	S602	240 minute 2 year Summer I+0%	32.600	30.862	-0.193	0.000	0.05
5.002	S502	240 minute 2 year Summer I+0%	32.600	30.510	-0.200	0.000	0.11
5.003	S503	240 minute 2 year Summer I+0%	32.500	30.510	-0.150	0.000	0.09
7.000	S700	240 minute 2 year Summer I+0%	32.600	31.271	-0.129	0.000	0.05
7.001	S701	240 minute 2 year Summer I+0%	32.600	31.163	-0.137	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	OK
1.001	S101		2.1	OK
1.002	S102		2.6	OK
2.000	S200		1.8	OK
2.001	S201		3.4	OK
1.003	S103		6.2	OK
3.000	S300		7.7	OK
4.000	S400		6.1	OK
3.001	S301		13.8	OK
1.004	S104		11.9	OK
5.000	S500		2.2	OK
5.001	S501		2.7	OK
6.000	S600		1.0	OK
6.001	S601		1.1	OK
6.002	S602		2.7	OK
5.002	S502		6.7	OK
5.003	S503		6.7	OK
7.000	S700		0.8	OK
7.001	S701		0.8	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 2 year Summer I+0%	32.550	30.509	-0.056	0.000	0.10
1.005	S105	240 minute 2 year Summer I+0%	32.380	30.508	0.038	0.000	0.05
8.000	S800	240 minute 2 year Summer I+0%	32.400	31.283	-0.192	0.000	0.05
1.006	S106	240 minute 2 year Summer I+0%	32.380	30.505	0.345	0.000	0.54
1.007	FW105	240 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.9	OK
1.005	S105		5.7	SURCHARGED
8.000	S800		3.8	OK
1.006	S106		5.9	SURCHARGED
1.007	FW105		5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 2 year Summer I+0%	32.600	31.264	-0.136	0.000	0.02
1.001	S101	360 minute 2 year Summer I+0%	32.400	31.011	-0.199	0.000	0.03
1.002	S102	360 minute 2 year Summer I+0%	32.600	30.779	-0.196	0.000	0.04
2.000	S200	360 minute 2 year Summer I+0%	32.600	31.276	-0.124	0.000	0.07
2.001	S201	360 minute 2 year Summer I+0%	32.500	30.836	-0.194	0.000	0.05
1.003	S103	360 minute 2 year Summer I+0%	32.380	30.500	-1.101	0.000	0.00
3.000	S300	360 minute 2 year Summer I+0%	32.600	31.294	-0.256	0.000	0.05
4.000	S400	360 minute 2 year Summer I+0%	32.600	31.290	-0.185	0.000	0.07
3.001	S301	360 minute 2 year Summer I+0%	32.600	30.529	-0.316	0.000	0.06
1.004	S104	360 minute 2 year Summer I+0%	32.380	30.500	-0.921	0.000	0.00
5.000	S500	360 minute 2 year Summer I+0%	32.600	31.280	-0.120	0.000	0.09
5.001	S501	360 minute 2 year Summer I+0%	32.600	30.710	-0.195	0.000	0.04
6.000	S600	360 minute 2 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
6.001	S601	360 minute 2 year Summer I+0%	32.600	31.083	-0.132	0.000	0.03
6.002	S602	360 minute 2 year Summer I+0%	32.600	30.858	-0.197	0.000	0.04
5.002	S502	360 minute 2 year Summer I+0%	32.600	30.502	-0.208	0.000	0.08
5.003	S503	360 minute 2 year Summer I+0%	32.500	30.502	-0.158	0.000	0.07
7.000	S700	360 minute 2 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
7.001	S701	360 minute 2 year Summer I+0%	32.600	31.160	-0.140	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.6	OK
1.002	S102		2.0	OK
2.000	S200		1.4	OK
2.001	S201		2.6	OK
1.003	S103		5.1	OK
3.000	S300		5.9	OK
4.000	S400		4.6	OK
3.001	S301		10.5	OK
1.004	S104		9.6	OK
5.000	S500		1.6	OK
5.001	S501		2.1	OK
6.000	S600		0.7	OK
6.001	S601		0.9	OK
6.002	S602		2.1	OK
5.002	S502		5.1	OK
5.003	S503		5.1	OK
7.000	S700		0.6	OK
7.001	S701		0.6	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 2 year Summer I+0%	32.550	30.501	-0.064	0.000	0.08
1.005	S105	360 minute 2 year Summer I+0%	32.380	30.500	0.030	0.000	0.05
8.000	S800	360 minute 2 year Summer I+0%	32.400	31.279	-0.196	0.000	0.04
1.006	S106	360 minute 2 year Summer I+0%	32.380	30.497	0.337	0.000	0.54
1.007	FW105	360 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.1	OK
1.005	S105		5.5	SURCHARGED
8.000	S800		2.9	OK
1.006	S106		5.8	SURCHARGED
1.007	FW105		5.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 2 year Summer I+0%	32.600	31.261	-0.139	0.000	0.02
1.001	S101	480 minute 2 year Summer I+0%	32.400	31.009	-0.201	0.000	0.03
1.002	S102	480 minute 2 year Summer I+0%	32.600	30.776	-0.199	0.000	0.03
2.000	S200	480 minute 2 year Summer I+0%	32.600	31.273	-0.127	0.000	0.06
2.001	S201	480 minute 2 year Summer I+0%	32.500	30.833	-0.197	0.000	0.04
1.003	S103	480 minute 2 year Summer I+0%	32.380	30.490	-1.111	0.000	0.00
3.000	S300	480 minute 2 year Summer I+0%	32.600	31.290	-0.260	0.000	0.04
4.000	S400	480 minute 2 year Summer I+0%	32.600	31.285	-0.190	0.000	0.06
3.001	S301	480 minute 2 year Summer I+0%	32.600	30.523	-0.322	0.000	0.05
1.004	S104	480 minute 2 year Summer I+0%	32.380	30.490	-0.931	0.000	0.00
5.000	S500	480 minute 2 year Summer I+0%	32.600	31.276	-0.124	0.000	0.07
5.001	S501	480 minute 2 year Summer I+0%	32.600	30.707	-0.198	0.000	0.04
6.000	S600	480 minute 2 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
6.001	S601	480 minute 2 year Summer I+0%	32.600	31.082	-0.133	0.000	0.03
6.002	S602	480 minute 2 year Summer I+0%	32.600	30.856	-0.199	0.000	0.03
5.002	S502	480 minute 2 year Summer I+0%	32.600	30.492	-0.218	0.000	0.07
5.003	S503	480 minute 2 year Summer I+0%	32.500	30.491	-0.169	0.000	0.05
7.000	S700	480 minute 2 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	480 minute 2 year Summer I+0%	32.600	31.158	-0.142	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.3	OK
1.002	S102		1.7	OK
2.000	S200		1.1	OK
2.001	S201		2.1	OK
1.003	S103		4.4	OK
3.000	S300		4.8	OK
4.000	S400		3.7	OK
3.001	S301		8.5	OK
1.004	S104		8.3	OK
5.000	S500		1.3	OK
5.001	S501		1.7	OK
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.7	OK
5.002	S502		4.2	OK
5.003	S503		4.1	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 2 year Summer I+0%	32.550	30.491	-0.074	0.000	0.06
1.005	S105	480 minute 2 year Summer I+0%	32.380	30.490	0.020	0.000	0.05
8.000	S800	480 minute 2 year Summer I+0%	32.400	31.276	-0.199	0.000	0.03
1.006	S106	480 minute 2 year Summer I+0%	32.380	30.487	0.327	0.000	0.53
1.007	FW105	480 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.0	OK
1.005	S105		5.4	SURCHARGED
8.000	S800		2.3	OK
1.006	S106		5.8	SURCHARGED
1.007	FW105		5.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 2 year Summer I+0%	32.600	31.260	-0.140	0.000	0.01
1.001	S101	600 minute 2 year Summer I+0%	32.400	31.008	-0.202	0.000	0.02
1.002	S102	600 minute 2 year Summer I+0%	32.600	30.775	-0.200	0.000	0.03
2.000	S200	600 minute 2 year Summer I+0%	32.600	31.271	-0.129	0.000	0.05
2.001	S201	600 minute 2 year Summer I+0%	32.500	30.831	-0.199	0.000	0.03
1.003	S103	600 minute 2 year Summer I+0%	32.380	30.478	-1.123	0.000	0.00
3.000	S300	600 minute 2 year Summer I+0%	32.600	31.287	-0.263	0.000	0.04
4.000	S400	600 minute 2 year Summer I+0%	32.600	31.283	-0.192	0.000	0.05
3.001	S301	600 minute 2 year Summer I+0%	32.600	30.519	-0.326	0.000	0.04
1.004	S104	600 minute 2 year Summer I+0%	32.380	30.479	-0.942	0.000	0.00
5.000	S500	600 minute 2 year Summer I+0%	32.600	31.274	-0.126	0.000	0.06
5.001	S501	600 minute 2 year Summer I+0%	32.600	30.706	-0.199	0.000	0.03
6.000	S600	600 minute 2 year Summer I+0%	32.600	31.264	-0.136	0.000	0.02
6.001	S601	600 minute 2 year Summer I+0%	32.600	31.081	-0.134	0.000	0.02
6.002	S602	600 minute 2 year Summer I+0%	32.600	30.854	-0.201	0.000	0.03
5.002	S502	600 minute 2 year Summer I+0%	32.600	30.480	-0.230	0.000	0.06
5.003	S503	600 minute 2 year Summer I+0%	32.500	30.480	-0.180	0.000	0.05
7.000	S700	600 minute 2 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
7.001	S701	600 minute 2 year Summer I+0%	32.600	31.157	-0.143	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.1	OK
1.002	S102		1.4	OK
2.000	S200		0.9	OK
2.001	S201		1.8	OK
1.003	S103		4.0	OK
3.000	S300		4.1	OK
4.000	S400		3.2	OK
3.001	S301		7.3	OK
1.004	S104		7.5	OK
5.000	S500		1.1	OK
5.001	S501		1.5	OK
6.000	S600		0.5	OK
6.001	S601		0.6	OK
6.002	S602		1.5	OK
5.002	S502		3.6	OK
5.003	S503		3.6	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 2 year Summer I+0%	32.550	30.479	-0.086	0.000	0.06
1.005	S105	600 minute 2 year Summer I+0%	32.380	30.479	0.009	0.000	0.05
8.000	S800	600 minute 2 year Summer I+0%	32.400	31.275	-0.200	0.000	0.03
1.006	S106	600 minute 2 year Summer I+0%	32.380	30.476	0.316	0.000	0.53
1.007	FW105	600 minute 2 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.3	OK
1.005	S105		5.4	SURCHARGED
8.000	S800		2.0	OK
1.006	S106		5.7	SURCHARGED
1.007	FW105		5.7	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 2 year Summer I+0%	32.600	31.259	-0.141	0.000	0.01
1.001	S101	720 minute 2 year Summer I+0%	32.400	31.005	-0.205	0.000	0.02
1.002	S102	720 minute 2 year Summer I+0%	32.600	30.774	-0.201	0.000	0.02
2.000	S200	720 minute 2 year Summer I+0%	32.600	31.270	-0.130	0.000	0.04
2.001	S201	720 minute 2 year Summer I+0%	32.500	30.830	-0.200	0.000	0.03
1.003	S103	720 minute 2 year Summer I+0%	32.380	30.467	-1.134	0.000	0.00
3.000	S300	720 minute 2 year Summer I+0%	32.600	31.285	-0.265	0.000	0.03
4.000	S400	720 minute 2 year Summer I+0%	32.600	31.280	-0.195	0.000	0.04
3.001	S301	720 minute 2 year Summer I+0%	32.600	30.516	-0.329	0.000	0.04
1.004	S104	720 minute 2 year Summer I+0%	32.380	30.467	-0.954	0.000	0.00
5.000	S500	720 minute 2 year Summer I+0%	32.600	31.272	-0.128	0.000	0.05
5.001	S501	720 minute 2 year Summer I+0%	32.600	30.704	-0.201	0.000	0.03
6.000	S600	720 minute 2 year Summer I+0%	32.600	31.262	-0.138	0.000	0.02
6.001	S601	720 minute 2 year Summer I+0%	32.600	31.080	-0.135	0.000	0.02
6.002	S602	720 minute 2 year Summer I+0%	32.600	30.853	-0.202	0.000	0.02
5.002	S502	720 minute 2 year Summer I+0%	32.600	30.469	-0.241	0.000	0.05
5.003	S503	720 minute 2 year Summer I+0%	32.500	30.469	-0.191	0.000	0.04
7.000	S700	720 minute 2 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
7.001	S701	720 minute 2 year Summer I+0%	32.600	31.156	-0.144	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		1.0	OK
1.002	S102		1.2	OK
2.000	S200		0.8	OK
2.001	S201		1.6	OK
1.003	S103		3.7	OK
3.000	S300		3.6	OK
4.000	S400		2.8	OK
3.001	S301		6.4	OK
1.004	S104		7.0	OK
5.000	S500		1.0	OK
5.001	S501		1.3	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.3	OK
5.002	S502		3.1	OK
5.003	S503		3.1	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 2 year Summer I+0%	32.550	30.468	-0.097	0.000	0.05
1.005	S105	720 minute 2 year Summer I+0%	32.380	30.467	-0.003	0.000	0.05
8.000	S800	720 minute 2 year Summer I+0%	32.400	31.274	-0.201	0.000	0.02
1.006	S106	720 minute 2 year Summer I+0%	32.380	30.455	0.295	0.000	0.52
1.007	FW105	720 minute 2 year Summer I+0%	32.380	30.020	-0.115	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.8	OK
1.005	S105		5.2	OK
8.000	S800		1.7	OK
1.006	S106		5.6	SURCHARGED
1.007	FW105		5.6	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 2 year Summer I+0%	32.600	31.257	-0.143	0.000	0.01
1.001	S101	960 minute 2 year Summer I+0%	32.400	31.002	-0.208	0.000	0.02
1.002	S102	960 minute 2 year Summer I+0%	32.600	30.771	-0.204	0.000	0.02
2.000	S200	960 minute 2 year Summer I+0%	32.600	31.268	-0.132	0.000	0.04
2.001	S201	960 minute 2 year Summer I+0%	32.500	30.828	-0.202	0.000	0.02
1.003	S103	960 minute 2 year Summer I+0%	32.380	30.444	-1.157	0.000	0.00
3.000	S300	960 minute 2 year Summer I+0%	32.600	31.282	-0.268	0.000	0.03
4.000	S400	960 minute 2 year Summer I+0%	32.600	31.278	-0.197	0.000	0.04
3.001	S301	960 minute 2 year Summer I+0%	32.600	30.512	-0.333	0.000	0.03
1.004	S104	960 minute 2 year Summer I+0%	32.380	30.444	-0.977	0.000	0.00
5.000	S500	960 minute 2 year Summer I+0%	32.600	31.270	-0.130	0.000	0.04
5.001	S501	960 minute 2 year Summer I+0%	32.600	30.703	-0.202	0.000	0.02
6.000	S600	960 minute 2 year Summer I+0%	32.600	31.260	-0.140	0.000	0.01
6.001	S601	960 minute 2 year Summer I+0%	32.600	31.077	-0.138	0.000	0.02
6.002	S602	960 minute 2 year Summer I+0%	32.600	30.850	-0.205	0.000	0.02
5.002	S502	960 minute 2 year Summer I+0%	32.600	30.449	-0.261	0.000	0.04
5.003	S503	960 minute 2 year Summer I+0%	32.500	30.446	-0.214	0.000	0.03
7.000	S700	960 minute 2 year Summer I+0%	32.600	31.263	-0.137	0.000	0.02
7.001	S701	960 minute 2 year Summer I+0%	32.600	31.155	-0.145	0.000	0.01

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Summary Wizard of 960 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.8	OK
1.002	S102		1.0	OK
2.000	S200		0.7	OK
2.001	S201		1.3	OK
1.003	S103		3.3	OK
3.000	S300		2.9	OK
4.000	S400		2.3	OK
3.001	S301		5.2	OK
1.004	S104		6.2	OK
5.000	S500		0.8	OK
5.001	S501		1.0	OK
6.000	S600		0.4	OK
6.001	S601		0.4	OK
6.002	S602		1.0	OK
5.002	S502		2.5	OK
5.003	S503		2.5	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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Summary Wizard of 960 minute 2 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 2 year Summer I+0%	32.550	30.445	-0.120	0.000	0.04
1.005	S105	960 minute 2 year Summer I+0%	32.380	30.444	-0.026	0.000	0.04
8.000	S800	960 minute 2 year Summer I+0%	32.400	31.271	-0.204	0.000	0.02
1.006	S106	960 minute 2 year Summer I+0%	32.380	30.438	0.278	0.000	0.51
1.007	FW105	960 minute 2 year Summer I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.1	OK
1.005	S105		5.1	OK
8.000	S800		1.4	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 2 year Summer I+0%	32.600	31.255	-0.145	0.000	0.01
1.001	S101	1440 minute 2 year Summer I+0%	32.400	30.997	-0.213	0.000	0.01
1.002	S102	1440 minute 2 year Summer I+0%	32.600	30.766	-0.209	0.000	0.01
2.000	S200	1440 minute 2 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
2.001	S201	1440 minute 2 year Summer I+0%	32.500	30.823	-0.207	0.000	0.02
1.003	S103	1440 minute 2 year Summer I+0%	32.380	30.405	-1.196	0.000	0.00
3.000	S300	1440 minute 2 year Summer I+0%	32.600	31.278	-0.272	0.000	0.02
4.000	S400	1440 minute 2 year Summer I+0%	32.600	31.275	-0.200	0.000	0.03
3.001	S301	1440 minute 2 year Summer I+0%	32.600	30.508	-0.337	0.000	0.02
1.004	S104	1440 minute 2 year Summer I+0%	32.380	30.401	-1.020	0.000	0.00
5.000	S500	1440 minute 2 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
5.001	S501	1440 minute 2 year Summer I+0%	32.600	30.697	-0.208	0.000	0.02
6.000	S600	1440 minute 2 year Summer I+0%	32.600	31.257	-0.143	0.000	0.01
6.001	S601	1440 minute 2 year Summer I+0%	32.600	31.074	-0.141	0.000	0.01
6.002	S602	1440 minute 2 year Summer I+0%	32.600	30.845	-0.210	0.000	0.01
5.002	S502	1440 minute 2 year Summer I+0%	32.600	30.444	-0.266	0.000	0.03
5.003	S503	1440 minute 2 year Summer I+0%	32.500	30.404	-0.256	0.000	0.02
7.000	S700	1440 minute 2 year Summer I+0%	32.600	31.260	-0.140	0.000	0.01
7.001	S701	1440 minute 2 year Summer I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.6	OK
1.002	S102		0.8	OK
2.000	S200		0.5	OK
2.001	S201		1.0	OK
1.003	S103		2.8	OK
3.000	S300		2.2	OK
4.000	S400		1.7	OK
3.001	S301		3.9	OK
1.004	S104		5.4	OK
5.000	S500		0.6	OK
5.001	S501		0.8	OK
6.000	S600		0.3	OK
6.001	S601		0.3	OK
6.002	S602		0.8	OK
5.002	S502		1.9	OK
5.003	S503		1.9	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 2 year Summer I+0%	32.550	30.402	-0.163	0.000	0.03
1.005	S105	1440 minute 2 year Summer I+0%	32.380	30.401	-0.069	0.000	0.04
8.000	S800	1440 minute 2 year Summer I+0%	32.400	31.266	-0.209	0.000	0.01
1.006	S106	1440 minute 2 year Summer I+0%	32.380	30.399	0.239	0.000	0.49
1.007	FW105	1440 minute 2 year Summer I+0%	32.380	30.019	-0.116	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.3	OK
1.005	S105		4.8	OK
8.000	S800		1.1	OK
1.006	S106		5.3	SURCHARGED
1.007	FW105		5.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	15 minute 5 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11	
1.001	S101	15 minute 5 year Summer I+0%	32.400	31.044	-0.166	0.000	0.16	
1.002	S102	15 minute 5 year Summer I+0%	32.600	30.818	-0.157	0.000	0.19	
2.000	S200	15 minute 5 year Summer I+0%	32.600	31.316	-0.084	0.000	0.40	
2.001	S201	15 minute 5 year Summer I+0%	32.500	30.880	-0.150	0.000	0.24	
1.003	S103	15 minute 5 year Summer I+0%	32.380	30.458	-1.143	0.000	0.01	
3.000	S300	15 minute 5 year Summer I+0%	32.600	31.363	-0.187	0.000	0.30	
4.000	S400	15 minute 5 year Summer I+0%	32.600	31.351	-0.124	0.000	0.41	
3.001	S301	15 minute 5 year Summer I+0%	32.600	30.621	-0.224	0.000	0.34	
1.004	S104	15 minute 5 year Summer I+0%	32.380	30.458	-0.963	0.000	0.01	
5.000	S500	15 minute 5 year Summer I+0%	32.600	31.325	-0.075	0.000	0.49	
5.001	S501	15 minute 5 year Summer I+0%	32.600	30.755	-0.150	0.000	0.24	
6.000	S600	15 minute 5 year Summer I+0%	32.600	31.290	-0.110	0.000	0.16	
6.001	S601	15 minute 5 year Summer I+0%	32.600	31.109	-0.106	0.000	0.19	
6.002	S602	15 minute 5 year Summer I+0%	32.600	30.898	-0.157	0.000	0.19	
5.002	S502	15 minute 5 year Summer I+0%	32.600	30.547	-0.163	0.000	0.43	
5.003	S503	15 minute 5 year Summer I+0%	32.500	30.481	-0.179	0.000	0.34	
7.000	S700	15 minute 5 year Summer I+0%	32.600	31.296	-0.104	0.000	0.21	
7.001	S701	15 minute 5 year Summer I+0%	32.600	31.178	-0.122	0.000	0.08	

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Summary Wizard of 15 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	2.0	OK
1.001	S101	8.1	OK
1.002	S102	10.0	OK
2.000	S200	7.6	OK
2.001	S201	13.6	OK
1.003	S103	33.9	OK
3.000	S300	32.4	OK
4.000	S400	25.6	OK
3.001	S301	58.2	OK
1.004	S104	65.5	OK
5.000	S500	9.2	OK
5.001	S501	11.4	OK
6.000	S600	4.1	OK
6.001	S601	4.7	OK
6.002	S602	10.5	OK
5.002	S502	26.3	OK
5.003	S503	26.3	OK
7.000	S700	3.6	OK
7.001	S701	3.6	OK

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Summary Wizard of 15 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	15 minute 5 year Summer I+0%	32.550	30.459	-0.106	0.000	0.42	
1.005	S105	15 minute 5 year Summer I+0%	32.380	30.458	-0.012	0.000	0.05	
8.000	S800	15 minute 5 year Summer I+0%	32.400	31.323	-0.152	0.000	0.22	
1.006	S106	15 minute 5 year Summer I+0%	32.380	30.449	0.289	0.000	0.51	
1.007	FW105	15 minute 5 year Summer I+0%	32.380	30.020	-0.115	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	32.8	OK
1.005	S105	5.5	OK
8.000	S800	16.0	OK
1.006	S106	5.6	SURCHARGED
1.007	FW105	5.6	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	30 minute 5 year Summer I+0%	32.600	31.282	-0.118	0.000	0.10	
1.001	S101	30 minute 5 year Summer I+0%	32.400	31.042	-0.168	0.000	0.14	
1.002	S102	30 minute 5 year Summer I+0%	32.600	30.814	-0.161	0.000	0.18	
2.000	S200	30 minute 5 year Summer I+0%	32.600	31.312	-0.088	0.000	0.36	
2.001	S201	30 minute 5 year Summer I+0%	32.500	30.877	-0.153	0.000	0.22	
1.003	S103	30 minute 5 year Summer I+0%	32.380	30.516	-1.085	0.000	0.01	
3.000	S300	30 minute 5 year Summer I+0%	32.600	31.356	-0.194	0.000	0.27	
4.000	S400	30 minute 5 year Summer I+0%	32.600	31.345	-0.130	0.000	0.38	
3.001	S301	30 minute 5 year Summer I+0%	32.600	30.612	-0.233	0.000	0.30	
1.004	S104	30 minute 5 year Summer I+0%	32.380	30.517	-0.904	0.000	0.01	
5.000	S500	30 minute 5 year Summer I+0%	32.600	31.320	-0.080	0.000	0.44	
5.001	S501	30 minute 5 year Summer I+0%	32.600	30.751	-0.154	0.000	0.22	
6.000	S600	30 minute 5 year Summer I+0%	32.600	31.287	-0.113	0.000	0.14	
6.001	S601	30 minute 5 year Summer I+0%	32.600	31.107	-0.108	0.000	0.17	
6.002	S602	30 minute 5 year Summer I+0%	32.600	30.894	-0.161	0.000	0.18	
5.002	S502	30 minute 5 year Summer I+0%	32.600	30.541	-0.169	0.000	0.39	
5.003	S503	30 minute 5 year Summer I+0%	32.500	30.518	-0.142	0.000	0.31	
7.000	S700	30 minute 5 year Summer I+0%	32.600	31.294	-0.106	0.000	0.19	
7.001	S701	30 minute 5 year Summer I+0%	32.600	31.176	-0.124	0.000	0.07	

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Summary Wizard of 30 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.9	OK
1.001	S101	7.5	OK
1.002	S102	9.3	OK
2.000	S200	7.0	OK
2.001	S201	12.6	OK
1.003	S103	26.0	OK
3.000	S300	29.4	OK
4.000	S400	23.4	OK
3.001	S301	52.7	OK
1.004	S104	49.5	OK
5.000	S500	8.4	OK
5.001	S501	10.4	OK
6.000	S600	3.7	OK
6.001	S601	4.3	OK
6.002	S602	9.8	OK
5.002	S502	24.2	OK
5.003	S503	24.3	OK
7.000	S700	3.2	OK
7.001	S701	3.2	OK

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Summary Wizard of 30 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	30 minute 5 year Summer I+0%	32.550	30.517	-0.048	0.000	0.38	
1.005	S105	30 minute 5 year Summer I+0%	32.380	30.517	0.047	0.000	0.05	
8.000	S800	30 minute 5 year Summer I+0%	32.400	31.319	-0.156	0.000	0.20	
1.006	S106	30 minute 5 year Summer I+0%	32.380	30.514	0.354	0.000	0.55	
1.007	FW105	30 minute 5 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	29.5	OK
1.005	S105	5.9	SURCHARGED
8.000	S800	14.6	OK
1.006	S106	5.9	SURCHARGED
1.007	FW105	5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	60 minute 5 year Summer I+0%	32.600	31.277	-0.123	0.000	0.08	
1.001	S101	60 minute 5 year Summer I+0%	32.400	31.035	-0.175	0.000	0.11	
1.002	S102	60 minute 5 year Summer I+0%	32.600	30.806	-0.169	0.000	0.14	
2.000	S200	60 minute 5 year Summer I+0%	32.600	31.303	-0.097	0.000	0.27	
2.001	S201	60 minute 5 year Summer I+0%	32.500	30.867	-0.163	0.000	0.17	
1.003	S103	60 minute 5 year Summer I+0%	32.380	30.567	-1.034	0.000	0.00	
3.000	S300	60 minute 5 year Summer I+0%	32.600	31.342	-0.208	0.000	0.20	
4.000	S400	60 minute 5 year Summer I+0%	32.600	31.331	-0.144	0.000	0.28	
3.001	S301	60 minute 5 year Summer I+0%	32.600	30.591	-0.254	0.000	0.23	
1.004	S104	60 minute 5 year Summer I+0%	32.380	30.567	-0.854	0.000	0.01	
5.000	S500	60 minute 5 year Summer I+0%	32.600	31.309	-0.091	0.000	0.33	
5.001	S501	60 minute 5 year Summer I+0%	32.600	30.741	-0.164	0.000	0.17	
6.000	S600	60 minute 5 year Summer I+0%	32.600	31.282	-0.118	0.000	0.11	
6.001	S601	60 minute 5 year Summer I+0%	32.600	31.101	-0.114	0.000	0.13	
6.002	S602	60 minute 5 year Summer I+0%	32.600	30.886	-0.169	0.000	0.14	
5.002	S502	60 minute 5 year Summer I+0%	32.600	30.569	-0.141	0.000	0.31	
5.003	S503	60 minute 5 year Summer I+0%	32.500	30.568	-0.092	0.000	0.24	
7.000	S700	60 minute 5 year Summer I+0%	32.600	31.287	-0.113	0.000	0.14	
7.001	S701	60 minute 5 year Summer I+0%	32.600	31.172	-0.128	0.000	0.05	

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Summary Wizard of 60 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.4	OK
1.001	S101	5.9	OK
1.002	S102	7.4	OK
2.000	S200	5.2	OK
2.001	S201	9.7	OK
1.003	S103	15.6	OK
3.000	S300	22.2	OK
4.000	S400	17.6	OK
3.001	S301	39.7	OK
1.004	S104	27.8	OK
5.000	S500	6.3	OK
5.001	S501	7.9	OK
6.000	S600	2.8	OK
6.001	S601	3.3	OK
6.002	S602	7.6	OK
5.002	S502	18.8	OK
5.003	S503	18.8	OK
7.000	S700	2.4	OK
7.001	S701	2.4	OK

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Summary Wizard of 60 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	60 minute 5 year Summer I+0%	32.550	30.567	0.002	0.000	0.29	
1.005	S105	60 minute 5 year Summer I+0%	32.380	30.566	0.096	0.000	0.05	
8.000	S800	60 minute 5 year Summer I+0%	32.400	31.309	-0.166	0.000	0.15	
1.006	S106	60 minute 5 year Summer I+0%	32.380	30.563	0.403	0.000	0.57	
1.007	FW105	60 minute 5 year Summer I+0%	32.380	30.022	-0.113	0.000	0.14	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	22.2	SURCHARGED
1.005	S105	6.1	SURCHARGED
8.000	S800	10.9	OK
1.006	S106	6.2	SURCHARGED
1.007	FW105	6.2	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 5 year Summer I+0%	32.600	31.272	-0.128	0.000	0.05
1.001	S101	120 minute 5 year Summer I+0%	32.400	31.027	-0.183	0.000	0.08
1.002	S102	120 minute 5 year Summer I+0%	32.600	30.797	-0.178	0.000	0.10
2.000	S200	120 minute 5 year Summer I+0%	32.600	31.293	-0.107	0.000	0.18
2.001	S201	120 minute 5 year Summer I+0%	32.500	30.856	-0.174	0.000	0.12
1.003	S103	120 minute 5 year Summer I+0%	32.380	30.595	-1.006	0.000	0.00
3.000	S300	120 minute 5 year Summer I+0%	32.600	31.324	-0.226	0.000	0.14
4.000	S400	120 minute 5 year Summer I+0%	32.600	31.316	-0.159	0.000	0.19
3.001	S301	120 minute 5 year Summer I+0%	32.600	30.597	-0.248	0.000	0.16
1.004	S104	120 minute 5 year Summer I+0%	32.380	30.596	-0.825	0.000	0.00
5.000	S500	120 minute 5 year Summer I+0%	32.600	31.298	-0.102	0.000	0.22
5.001	S501	120 minute 5 year Summer I+0%	32.600	30.730	-0.175	0.000	0.11
6.000	S600	120 minute 5 year Summer I+0%	32.600	31.276	-0.124	0.000	0.07
6.001	S601	120 minute 5 year Summer I+0%	32.600	31.095	-0.120	0.000	0.09
6.002	S602	120 minute 5 year Summer I+0%	32.600	30.877	-0.178	0.000	0.10
5.002	S502	120 minute 5 year Summer I+0%	32.600	30.597	-0.113	0.000	0.21
5.003	S503	120 minute 5 year Summer I+0%	32.500	30.597	-0.063	0.000	0.16
7.000	S700	120 minute 5 year Summer I+0%	32.600	31.281	-0.119	0.000	0.09
7.001	S701	120 minute 5 year Summer I+0%	32.600	31.168	-0.132	0.000	0.04

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Summary Wizard of 120 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.9	OK
1.001	S101		4.1	OK
1.002	S102		5.1	OK
2.000	S200		3.5	OK
2.001	S201		6.7	OK
1.003	S103		10.7	OK
3.000	S300		15.1	OK
4.000	S400		11.8	OK
3.001	S301		26.9	OK
1.004	S104		18.6	OK
5.000	S500		4.2	OK
5.001	S501		5.3	OK
6.000	S600		1.9	OK
6.001	S601		2.2	OK
6.002	S602		5.2	OK
5.002	S502		12.9	OK
5.003	S503		12.7	OK
7.000	S700		1.6	OK
7.001	S701		1.6	OK

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Summary Wizard of 120 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 5 year Summer I+0%	32.550	30.596	0.031	0.000	0.20
1.005	S105	120 minute 5 year Summer I+0%	32.380	30.595	0.125	0.000	0.05
8.000	S800	120 minute 5 year Summer I+0%	32.400	31.298	-0.177	0.000	0.10
1.006	S106	120 minute 5 year Summer I+0%	32.380	30.592	0.432	0.000	0.59
1.007	FW105	120 minute 5 year Summer I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		15.2	SURCHARGED
1.005	S105		6.3	SURCHARGED
8.000	S800		7.4	OK
1.006	S106		6.4	SURCHARGED
1.007	FW105		6.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 5 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
1.001	S101	180 minute 5 year Summer I+0%	32.400	31.021	-0.189	0.000	0.06
1.002	S102	180 minute 5 year Summer I+0%	32.600	30.791	-0.184	0.000	0.08
2.000	S200	180 minute 5 year Summer I+0%	32.600	31.287	-0.113	0.000	0.14
2.001	S201	180 minute 5 year Summer I+0%	32.500	30.851	-0.179	0.000	0.09
1.003	S103	180 minute 5 year Summer I+0%	32.380	30.599	-1.002	0.000	0.00
3.000	S300	180 minute 5 year Summer I+0%	32.600	31.315	-0.235	0.000	0.11
4.000	S400	180 minute 5 year Summer I+0%	32.600	31.307	-0.168	0.000	0.15
3.001	S301	180 minute 5 year Summer I+0%	32.600	30.601	-0.244	0.000	0.12
1.004	S104	180 minute 5 year Summer I+0%	32.380	30.599	-0.822	0.000	0.00
5.000	S500	180 minute 5 year Summer I+0%	32.600	31.292	-0.108	0.000	0.17
5.001	S501	180 minute 5 year Summer I+0%	32.600	30.725	-0.180	0.000	0.09
6.000	S600	180 minute 5 year Summer I+0%	32.600	31.273	-0.127	0.000	0.06
6.001	S601	180 minute 5 year Summer I+0%	32.600	31.090	-0.125	0.000	0.07
6.002	S602	180 minute 5 year Summer I+0%	32.600	30.871	-0.184	0.000	0.08
5.002	S502	180 minute 5 year Summer I+0%	32.600	30.601	-0.109	0.000	0.16
5.003	S503	180 minute 5 year Summer I+0%	32.500	30.601	-0.059	0.000	0.13
7.000	S700	180 minute 5 year Summer I+0%	32.600	31.277	-0.123	0.000	0.07
7.001	S701	180 minute 5 year Summer I+0%	32.600	31.166	-0.134	0.000	0.03

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.7	OK
1.001	S101		3.2	OK
1.002	S102		4.0	OK
2.000	S200		2.7	OK
2.001	S201		5.2	OK
1.003	S103		8.3	OK
3.000	S300		11.7	OK
4.000	S400		9.1	OK
3.001	S301		20.8	OK
1.004	S104		14.7	OK
5.000	S500		3.3	OK
5.001	S501		4.1	OK
6.000	S600		1.4	OK
6.001	S601		1.7	OK
6.002	S602		4.1	OK
5.002	S502		10.0	OK
5.003	S503		9.9	OK
7.000	S700		1.3	OK
7.001	S701		1.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 5 year Summer I+0%	32.550	30.600	0.035	0.000	0.15
1.005	S105	180 minute 5 year Summer I+0%	32.380	30.599	0.129	0.000	0.05
8.000	S800	180 minute 5 year Summer I+0%	32.400	31.292	-0.183	0.000	0.08
1.006	S106	180 minute 5 year Summer I+0%	32.380	30.596	0.436	0.000	0.59
1.007	FW105	180 minute 5 year Summer I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		11.8	SURCHARGED
1.005	S105		6.2	SURCHARGED
8.000	S800		5.7	OK
1.006	S106		6.4	SURCHARGED
1.007	FW105		6.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 5 year Summer I+0%	32.600	31.268	-0.132	0.000	0.03
1.001	S101	240 minute 5 year Summer I+0%	32.400	31.017	-0.193	0.000	0.05
1.002	S102	240 minute 5 year Summer I+0%	32.600	30.787	-0.188	0.000	0.06
2.000	S200	240 minute 5 year Summer I+0%	32.600	31.284	-0.116	0.000	0.12
2.001	S201	240 minute 5 year Summer I+0%	32.500	30.846	-0.184	0.000	0.08
1.003	S103	240 minute 5 year Summer I+0%	32.380	30.598	-1.003	0.000	0.00
3.000	S300	240 minute 5 year Summer I+0%	32.600	31.310	-0.240	0.000	0.09
4.000	S400	240 minute 5 year Summer I+0%	32.600	31.302	-0.173	0.000	0.12
3.001	S301	240 minute 5 year Summer I+0%	32.600	30.600	-0.245	0.000	0.10
1.004	S104	240 minute 5 year Summer I+0%	32.380	30.598	-0.823	0.000	0.00
5.000	S500	240 minute 5 year Summer I+0%	32.600	31.287	-0.113	0.000	0.14
5.001	S501	240 minute 5 year Summer I+0%	32.600	30.720	-0.185	0.000	0.07
6.000	S600	240 minute 5 year Summer I+0%	32.600	31.270	-0.130	0.000	0.05
6.001	S601	240 minute 5 year Summer I+0%	32.600	31.088	-0.127	0.000	0.06
6.002	S602	240 minute 5 year Summer I+0%	32.600	30.866	-0.189	0.000	0.06
5.002	S502	240 minute 5 year Summer I+0%	32.600	30.600	-0.110	0.000	0.14
5.003	S503	240 minute 5 year Summer I+0%	32.500	30.599	-0.061	0.000	0.11
7.000	S700	240 minute 5 year Summer I+0%	32.600	31.274	-0.126	0.000	0.06
7.001	S701	240 minute 5 year Summer I+0%	32.600	31.165	-0.135	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.6	OK
1.002	S102		3.3	OK
2.000	S200		2.2	OK
2.001	S201		4.3	OK
1.003	S103		6.9	OK
3.000	S300		9.6	OK
4.000	S400		7.5	OK
3.001	S301		17.1	OK
1.004	S104		12.4	OK
5.000	S500		2.7	OK
5.001	S501		3.4	OK
6.000	S600		1.2	OK
6.001	S601		1.4	OK
6.002	S602		3.4	OK
5.002	S502		8.3	OK
5.003	S503		8.2	OK
7.000	S700		1.0	OK
7.001	S701		1.0	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 5 year Summer I+0%	32.550	30.599	0.034	0.000	0.13
1.005	S105	240 minute 5 year Summer I+0%	32.380	30.598	0.128	0.000	0.05
8.000	S800	240 minute 5 year Summer I+0%	32.400	31.287	-0.188	0.000	0.07
1.006	S106	240 minute 5 year Summer I+0%	32.380	30.595	0.435	0.000	0.59
1.007	FW105	240 minute 5 year Summer I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		9.8	SURCHARGED
1.005	S105		6.2	SURCHARGED
8.000	S800		4.7	OK
1.006	S106		6.4	SURCHARGED
1.007	FW105		6.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 5 year Summer I+0%	32.600	31.266	-0.134	0.000	0.02
1.001	S101	360 minute 5 year Summer I+0%	32.400	31.013	-0.197	0.000	0.04
1.002	S102	360 minute 5 year Summer I+0%	32.600	30.782	-0.193	0.000	0.05
2.000	S200	360 minute 5 year Summer I+0%	32.600	31.280	-0.120	0.000	0.09
2.001	S201	360 minute 5 year Summer I+0%	32.500	30.840	-0.190	0.000	0.06
1.003	S103	360 minute 5 year Summer I+0%	32.380	30.588	-1.013	0.000	0.00
3.000	S300	360 minute 5 year Summer I+0%	32.600	31.300	-0.250	0.000	0.07
4.000	S400	360 minute 5 year Summer I+0%	32.600	31.296	-0.179	0.000	0.09
3.001	S301	360 minute 5 year Summer I+0%	32.600	30.590	-0.255	0.000	0.07
1.004	S104	360 minute 5 year Summer I+0%	32.380	30.588	-0.833	0.000	0.00
5.000	S500	360 minute 5 year Summer I+0%	32.600	31.283	-0.117	0.000	0.11
5.001	S501	360 minute 5 year Summer I+0%	32.600	30.714	-0.191	0.000	0.05
6.000	S600	360 minute 5 year Summer I+0%	32.600	31.268	-0.132	0.000	0.03
6.001	S601	360 minute 5 year Summer I+0%	32.600	31.085	-0.130	0.000	0.04
6.002	S602	360 minute 5 year Summer I+0%	32.600	30.861	-0.194	0.000	0.05
5.002	S502	360 minute 5 year Summer I+0%	32.600	30.590	-0.120	0.000	0.10
5.003	S503	360 minute 5 year Summer I+0%	32.500	30.590	-0.070	0.000	0.08
7.000	S700	360 minute 5 year Summer I+0%	32.600	31.270	-0.130	0.000	0.05
7.001	S701	360 minute 5 year Summer I+0%	32.600	31.162	-0.138	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		2.0	OK
1.002	S102		2.5	OK
2.000	S200		1.7	OK
2.001	S201		3.2	OK
1.003	S103		5.5	OK
3.000	S300		7.2	OK
4.000	S400		5.7	OK
3.001	S301		12.9	OK
1.004	S104		10.2	OK
5.000	S500		2.0	OK
5.001	S501		2.6	OK
6.000	S600		0.9	OK
6.001	S601		1.1	OK
6.002	S602		2.6	OK
5.002	S502		6.3	OK
5.003	S503		6.2	OK
7.000	S700		0.8	OK
7.001	S701		0.8	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 5 year Summer I+0%	32.550	30.589	0.024	0.000	0.10
1.005	S105	360 minute 5 year Summer I+0%	32.380	30.588	0.118	0.000	0.05
8.000	S800	360 minute 5 year Summer I+0%	32.400	31.282	-0.193	0.000	0.05
1.006	S106	360 minute 5 year Summer I+0%	32.380	30.585	0.425	0.000	0.58
1.007	FW105	360 minute 5 year Summer I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.4	SURCHARGED
1.005	S105		5.9	SURCHARGED
8.000	S800		3.5	OK
1.006	S106		6.3	SURCHARGED
1.007	FW105		6.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 5 year Summer I+0%	32.600	31.264	-0.136	0.000	0.02
1.001	S101	480 minute 5 year Summer I+0%	32.400	31.011	-0.199	0.000	0.03
1.002	S102	480 minute 5 year Summer I+0%	32.600	30.779	-0.196	0.000	0.04
2.000	S200	480 minute 5 year Summer I+0%	32.600	31.276	-0.124	0.000	0.07
2.001	S201	480 minute 5 year Summer I+0%	32.500	30.836	-0.194	0.000	0.05
1.003	S103	480 minute 5 year Summer I+0%	32.380	30.576	-1.025	0.000	0.00
3.000	S300	480 minute 5 year Summer I+0%	32.600	31.294	-0.256	0.000	0.05
4.000	S400	480 minute 5 year Summer I+0%	32.600	31.290	-0.185	0.000	0.07
3.001	S301	480 minute 5 year Summer I+0%	32.600	30.577	-0.268	0.000	0.06
1.004	S104	480 minute 5 year Summer I+0%	32.380	30.576	-0.845	0.000	0.00
5.000	S500	480 minute 5 year Summer I+0%	32.600	31.280	-0.120	0.000	0.09
5.001	S501	480 minute 5 year Summer I+0%	32.600	30.710	-0.195	0.000	0.04
6.000	S600	480 minute 5 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
6.001	S601	480 minute 5 year Summer I+0%	32.600	31.083	-0.132	0.000	0.03
6.002	S602	480 minute 5 year Summer I+0%	32.600	30.858	-0.197	0.000	0.04
5.002	S502	480 minute 5 year Summer I+0%	32.600	30.578	-0.132	0.000	0.08
5.003	S503	480 minute 5 year Summer I+0%	32.500	30.577	-0.083	0.000	0.07
7.000	S700	480 minute 5 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
7.001	S701	480 minute 5 year Summer I+0%	32.600	31.160	-0.140	0.000	0.01

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Summary Wizard of 480 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.6	OK
1.002	S102		2.0	OK
2.000	S200		1.4	OK
2.001	S201		2.6	OK
1.003	S103		4.8	OK
3.000	S300		5.9	OK
4.000	S400		4.6	OK
3.001	S301		10.5	OK
1.004	S104		8.8	OK
5.000	S500		1.6	OK
5.001	S501		2.1	OK
6.000	S600		0.7	OK
6.001	S601		0.9	OK
6.002	S602		2.1	OK
5.002	S502		5.1	OK
5.003	S503		5.0	OK
7.000	S700		0.6	OK
7.001	S701		0.6	OK

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Summary Wizard of 480 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 5 year Summer I+0%	32.550	30.576	0.011	0.000	0.08
1.005	S105	480 minute 5 year Summer I+0%	32.380	30.576	0.106	0.000	0.05
8.000	S800	480 minute 5 year Summer I+0%	32.400	31.279	-0.196	0.000	0.04
1.006	S106	480 minute 5 year Summer I+0%	32.380	30.572	0.412	0.000	0.58
1.007	FW105	480 minute 5 year Summer I+0%	32.380	30.022	-0.113	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.1	SURCHARGED
1.005	S105		5.8	SURCHARGED
8.000	S800		2.9	OK
1.006	S106		6.3	SURCHARGED
1.007	FW105		6.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 5 year Summer I+0%	32.600	31.262	-0.138	0.000	0.02
1.001	S101	600 minute 5 year Summer I+0%	32.400	31.009	-0.201	0.000	0.03
1.002	S102	600 minute 5 year Summer I+0%	32.600	30.777	-0.198	0.000	0.03
2.000	S200	600 minute 5 year Summer I+0%	32.600	31.274	-0.126	0.000	0.06
2.001	S201	600 minute 5 year Summer I+0%	32.500	30.834	-0.196	0.000	0.04
1.003	S103	600 minute 5 year Summer I+0%	32.380	30.563	-1.038	0.000	0.00
3.000	S300	600 minute 5 year Summer I+0%	32.600	31.291	-0.259	0.000	0.05
4.000	S400	600 minute 5 year Summer I+0%	32.600	31.286	-0.189	0.000	0.06
3.001	S301	600 minute 5 year Summer I+0%	32.600	30.564	-0.281	0.000	0.05
1.004	S104	600 minute 5 year Summer I+0%	32.380	30.563	-0.858	0.000	0.00
5.000	S500	600 minute 5 year Summer I+0%	32.600	31.277	-0.123	0.000	0.07
5.001	S501	600 minute 5 year Summer I+0%	32.600	30.708	-0.197	0.000	0.04
6.000	S600	600 minute 5 year Summer I+0%	32.600	31.266	-0.134	0.000	0.02
6.001	S601	600 minute 5 year Summer I+0%	32.600	31.082	-0.133	0.000	0.03
6.002	S602	600 minute 5 year Summer I+0%	32.600	30.856	-0.199	0.000	0.03
5.002	S502	600 minute 5 year Summer I+0%	32.600	30.566	-0.144	0.000	0.07
5.003	S503	600 minute 5 year Summer I+0%	32.500	30.566	-0.094	0.000	0.06
7.000	S700	600 minute 5 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	600 minute 5 year Summer I+0%	32.600	31.158	-0.142	0.000	0.01

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Summary Wizard of 600 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.4	OK
1.002	S102		1.7	OK
2.000	S200		1.2	OK
2.001	S201		2.2	OK
1.003	S103		4.2	OK
3.000	S300		5.0	OK
4.000	S400		3.9	OK
3.001	S301		8.9	OK
1.004	S104		8.0	OK
5.000	S500		1.4	OK
5.001	S501		1.8	OK
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.8	OK
5.002	S502		4.4	OK
5.003	S503		4.3	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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Summary Wizard of 600 minute 5 year Summer I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 5 year Summer I+0%	32.550	30.565	0.000	0.000	0.07
1.005	S105	600 minute 5 year Summer I+0%	32.380	30.563	0.093	0.000	0.05
8.000	S800	600 minute 5 year Summer I+0%	32.400	31.277	-0.198	0.000	0.03
1.006	S106	600 minute 5 year Summer I+0%	32.380	30.560	0.400	0.000	0.57
1.007	FW105	600 minute 5 year Summer I+0%	32.380	30.022	-0.113	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.2	OK
1.005	S105		5.7	SURCHARGED
8.000	S800		2.4	OK
1.006	S106		6.2	SURCHARGED
1.007	FW105		6.2	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 5 year Summer I+0%	32.600	31.260	-0.140	0.000	0.01
1.001	S101	720 minute 5 year Summer I+0%	32.400	31.008	-0.202	0.000	0.02
1.002	S102	720 minute 5 year Summer I+0%	32.600	30.775	-0.200	0.000	0.03
2.000	S200	720 minute 5 year Summer I+0%	32.600	31.272	-0.128	0.000	0.05
2.001	S201	720 minute 5 year Summer I+0%	32.500	30.832	-0.198	0.000	0.03
1.003	S103	720 minute 5 year Summer I+0%	32.380	30.550	-1.051	0.000	0.00
3.000	S300	720 minute 5 year Summer I+0%	32.600	31.288	-0.262	0.000	0.04
4.000	S400	720 minute 5 year Summer I+0%	32.600	31.284	-0.191	0.000	0.05
3.001	S301	720 minute 5 year Summer I+0%	32.600	30.551	-0.294	0.000	0.05
1.004	S104	720 minute 5 year Summer I+0%	32.380	30.550	-0.871	0.000	0.00
5.000	S500	720 minute 5 year Summer I+0%	32.600	31.275	-0.125	0.000	0.06
5.001	S501	720 minute 5 year Summer I+0%	32.600	30.706	-0.199	0.000	0.03
6.000	S600	720 minute 5 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
6.001	S601	720 minute 5 year Summer I+0%	32.600	31.081	-0.134	0.000	0.03
6.002	S602	720 minute 5 year Summer I+0%	32.600	30.855	-0.200	0.000	0.03
5.002	S502	720 minute 5 year Summer I+0%	32.600	30.552	-0.158	0.000	0.06
5.003	S503	720 minute 5 year Summer I+0%	32.500	30.551	-0.109	0.000	0.05
7.000	S700	720 minute 5 year Summer I+0%	32.600	31.266	-0.134	0.000	0.03
7.001	S701	720 minute 5 year Summer I+0%	32.600	31.157	-0.143	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.2	OK
1.002	S102		1.5	OK
2.000	S200		1.0	OK
2.001	S201		2.0	OK
1.003	S103		3.9	OK
3.000	S300		4.4	OK
4.000	S400		3.4	OK
3.001	S301		7.8	OK
1.004	S104		7.3	OK
5.000	S500		1.2	OK
5.001	S501		1.6	OK
6.000	S600		0.5	OK
6.001	S601		0.6	OK
6.002	S602		1.6	OK
5.002	S502		3.8	OK
5.003	S503		3.8	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 5 year Summer I+0%	32.550	30.551	-0.014	0.000	0.06
1.005	S105	720 minute 5 year Summer I+0%	32.380	30.550	0.080	0.000	0.05
8.000	S800	720 minute 5 year Summer I+0%	32.400	31.275	-0.200	0.000	0.03
1.006	S106	720 minute 5 year Summer I+0%	32.380	30.547	0.387	0.000	0.56
1.007	FW105	720 minute 5 year Summer I+0%	32.380	30.022	-0.113	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.5	OK
1.005	S105		5.6	SURCHARGED
8.000	S800		2.1	OK
1.006	S106		6.1	SURCHARGED
1.007	FW105		6.1	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 5 year Summer I+0%	32.600	31.258	-0.142	0.000	0.01
1.001	S101	960 minute 5 year Summer I+0%	32.400	31.005	-0.205	0.000	0.02
1.002	S102	960 minute 5 year Summer I+0%	32.600	30.773	-0.202	0.000	0.02
2.000	S200	960 minute 5 year Summer I+0%	32.600	31.270	-0.130	0.000	0.04
2.001	S201	960 minute 5 year Summer I+0%	32.500	30.830	-0.200	0.000	0.03
1.003	S103	960 minute 5 year Summer I+0%	32.380	30.525	-1.076	0.000	0.00
3.000	S300	960 minute 5 year Summer I+0%	32.600	31.285	-0.265	0.000	0.03
4.000	S400	960 minute 5 year Summer I+0%	32.600	31.280	-0.195	0.000	0.04
3.001	S301	960 minute 5 year Summer I+0%	32.600	30.529	-0.316	0.000	0.04
1.004	S104	960 minute 5 year Summer I+0%	32.380	30.525	-0.896	0.000	0.00
5.000	S500	960 minute 5 year Summer I+0%	32.600	31.272	-0.128	0.000	0.05
5.001	S501	960 minute 5 year Summer I+0%	32.600	30.704	-0.201	0.000	0.03
6.000	S600	960 minute 5 year Summer I+0%	32.600	31.262	-0.138	0.000	0.02
6.001	S601	960 minute 5 year Summer I+0%	32.600	31.080	-0.135	0.000	0.02
6.002	S602	960 minute 5 year Summer I+0%	32.600	30.853	-0.202	0.000	0.02
5.002	S502	960 minute 5 year Summer I+0%	32.600	30.526	-0.184	0.000	0.05
5.003	S503	960 minute 5 year Summer I+0%	32.500	30.526	-0.134	0.000	0.04
7.000	S700	960 minute 5 year Summer I+0%	32.600	31.265	-0.135	0.000	0.02
7.001	S701	960 minute 5 year Summer I+0%	32.600	31.156	-0.144	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		1.0	OK
1.002	S102		1.2	OK
2.000	S200		0.8	OK
2.001	S201		1.6	OK
1.003	S103		3.4	OK
3.000	S300		3.5	OK
4.000	S400		2.8	OK
3.001	S301		6.3	OK
1.004	S104		6.4	OK
5.000	S500		1.0	OK
5.001	S501		1.3	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.3	OK
5.002	S502		3.1	OK
5.003	S503		3.1	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 5 year Summer I+0%	32.550	30.525	-0.040	0.000	0.05
1.005	S105	960 minute 5 year Summer I+0%	32.380	30.524	0.054	0.000	0.05
8.000	S800	960 minute 5 year Summer I+0%	32.400	31.274	-0.201	0.000	0.02
1.006	S106	960 minute 5 year Summer I+0%	32.380	30.521	0.361	0.000	0.55
1.007	FW105	960 minute 5 year Summer I+0%	32.380	30.021	-0.114	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.7	OK
1.005	S105		5.5	SURCHARGED
8.000	S800		1.7	OK
1.006	S106		6.0	SURCHARGED
1.007	FW105		6.0	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 5 year Summer I+0%	32.600	31.256	-0.144	0.000	0.01
1.001	S101	1440 minute 5 year Summer I+0%	32.400	31.000	-0.210	0.000	0.01
1.002	S102	1440 minute 5 year Summer I+0%	32.600	30.769	-0.206	0.000	0.02
2.000	S200	1440 minute 5 year Summer I+0%	32.600	31.267	-0.133	0.000	0.03
2.001	S201	1440 minute 5 year Summer I+0%	32.500	30.827	-0.203	0.000	0.02
1.003	S103	1440 minute 5 year Summer I+0%	32.380	30.476	-1.125	0.000	0.00
3.000	S300	1440 minute 5 year Summer I+0%	32.600	31.281	-0.269	0.000	0.02
4.000	S400	1440 minute 5 year Summer I+0%	32.600	31.276	-0.199	0.000	0.03
3.001	S301	1440 minute 5 year Summer I+0%	32.600	30.511	-0.334	0.000	0.03
1.004	S104	1440 minute 5 year Summer I+0%	32.380	30.476	-0.945	0.000	0.00
5.000	S500	1440 minute 5 year Summer I+0%	32.600	31.269	-0.131	0.000	0.04
5.001	S501	1440 minute 5 year Summer I+0%	32.600	30.701	-0.204	0.000	0.02
6.000	S600	1440 minute 5 year Summer I+0%	32.600	31.259	-0.141	0.000	0.01
6.001	S601	1440 minute 5 year Summer I+0%	32.600	31.076	-0.139	0.000	0.02
6.002	S602	1440 minute 5 year Summer I+0%	32.600	30.848	-0.207	0.000	0.02
5.002	S502	1440 minute 5 year Summer I+0%	32.600	30.478	-0.232	0.000	0.04
5.003	S503	1440 minute 5 year Summer I+0%	32.500	30.477	-0.183	0.000	0.03
7.000	S700	1440 minute 5 year Summer I+0%	32.600	31.262	-0.138	0.000	0.02
7.001	S701	1440 minute 5 year Summer I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.7	OK
1.002	S102		0.9	OK
2.000	S200		0.6	OK
2.001	S201		1.2	OK
1.003	S103		2.8	OK
3.000	S300		2.6	OK
4.000	S400		2.1	OK
3.001	S301		4.7	OK
1.004	S104		5.4	OK
5.000	S500		0.7	OK
5.001	S501		0.9	OK
6.000	S600		0.3	OK
6.001	S601		0.4	OK
6.002	S602		0.9	OK
5.002	S502		2.3	OK
5.003	S503		2.3	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 5 year Summer I+0%	32.550	30.477	-0.088	0.000	0.04
1.005	S105	1440 minute 5 year Summer I+0%	32.380	30.476	0.006	0.000	0.05
8.000	S800	1440 minute 5 year Summer I+0%	32.400	31.269	-0.206	0.000	0.02
1.006	S106	1440 minute 5 year Summer I+0%	32.380	30.473	0.313	0.000	0.53
1.007	FW105	1440 minute 5 year Summer I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.8	OK
1.005	S105		5.6	SURCHARGED
8.000	S800		1.3	OK
1.006	S106		5.7	SURCHARGED
1.007	FW105		5.7	OK

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Summary Wizard of 15 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	15 minute 30 year Summer I+40%	32.600	31.299	-0.101	0.000	0.23
1.001	S101	15 minute 30 year Summer I+40%	32.400	31.083	-0.127	0.000	0.40
1.002	S102	15 minute 30 year Summer I+40%	32.600	30.863	-0.112	0.000	0.50
2.000	S200	15 minute 30 year Summer I+40%	32.600	31.355	-0.045	0.000	0.81
2.001	S201	15 minute 30 year Summer I+40%	32.500	30.927	-0.103	0.000	0.56
1.003	S103	15 minute 30 year Summer I+40%	32.380	30.701	-0.900	0.000	0.02
3.000	S300	15 minute 30 year Summer I+40%	32.600	31.422	-0.128	0.000	0.60
4.000	S400	15 minute 30 year Summer I+40%	32.600	31.411	-0.064	0.000	0.84
3.001	S301	15 minute 30 year Summer I+40%	32.600	30.703	-0.142	0.000	0.69
1.004	S104	15 minute 30 year Summer I+40%	32.380	30.702	-0.719	0.000	0.02
5.000	S500	15 minute 30 year Summer I+40%	32.600	31.381	-0.019	0.000	0.99
5.001	S501	15 minute 30 year Summer I+40%	32.600	30.843	-0.062	0.000	0.50
6.000	S600	15 minute 30 year Summer I+40%	32.600	31.309	-0.091	0.000	0.32
6.001	S601	15 minute 30 year Summer I+40%	32.600	31.132	-0.083	0.000	0.40
6.002	S602	15 minute 30 year Summer I+40%	32.600	30.940	-0.115	0.000	0.48
5.002	S502	15 minute 30 year Summer I+40%	32.600	30.823	0.113	0.000	0.99
5.003	S503	15 minute 30 year Summer I+40%	32.500	30.782	0.122	0.000	0.77
7.000	S700	15 minute 30 year Summer I+40%	32.600	31.319	-0.081	0.000	0.43
7.001	S701	15 minute 30 year Summer I+40%	32.600	31.190	-0.110	0.000	0.16

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Summary Wizard of 15 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		4.2	OK
1.001	S101		20.7	OK
1.002	S102		25.9	OK
2.000	S200		15.5	OK
2.001	S201		31.7	OK
1.003	S103		65.0	OK
3.000	S300		66.2	OK
4.000	S400		52.3	OK
3.001	S301		119.0	OK
1.004	S104		90.7	OK
5.000	S500		18.6	OK
5.001	S501		23.7	OK
6.000	S600		8.4	OK
6.001	S601		10.1	OK
6.002	S602		25.8	OK
5.002	S502		60.5	SURCHARGED
5.003	S503		59.3	SURCHARGED
7.000	S700		7.4	OK
7.001	S701		7.3	OK

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Summary Wizard of 15 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	15 minute 30 year Summer I+40%	32.550	30.729	0.164	0.000	0.93
1.005	S105	15 minute 30 year Summer I+40%	32.380	30.701	0.231	0.000	0.06
8.000	S800	15 minute 30 year Summer I+40%	32.400	31.358	-0.117	0.000	0.46
1.006	S106	15 minute 30 year Summer I+40%	32.380	30.698	0.538	0.000	0.63
1.007	FW105	15 minute 30 year Summer I+40%	32.380	30.024	-0.111	0.000	0.16

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		71.7	SURCHARGED
1.005	S105		6.8	SURCHARGED
8.000	S800		32.5	OK
1.006	S106		6.9	SURCHARGED
1.007	FW105		6.9	OK

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Summary Wizard of 30 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	30 minute 30 year Summer I+40%	32.600	31.296	-0.104	0.000	0.21
1.001	S101	30 minute 30 year Summer I+40%	32.400	31.077	-0.133	0.000	0.35
1.002	S102	30 minute 30 year Summer I+40%	32.600	30.856	-0.119	0.000	0.44
2.000	S200	30 minute 30 year Summer I+40%	32.600	31.348	-0.052	0.000	0.75
2.001	S201	30 minute 30 year Summer I+40%	32.500	30.919	-0.111	0.000	0.50
1.003	S103	30 minute 30 year Summer I+40%	32.380	30.838	-0.763	0.000	0.01
3.000	S300	30 minute 30 year Summer I+40%	32.600	31.412	-0.138	0.000	0.56
4.000	S400	30 minute 30 year Summer I+40%	32.600	31.400	-0.075	0.000	0.78
3.001	S301	30 minute 30 year Summer I+40%	32.600	30.845	0.000	0.000	0.63
1.004	S104	30 minute 30 year Summer I+40%	32.380	30.838	-0.583	0.000	0.01
5.000	S500	30 minute 30 year Summer I+40%	32.600	31.363	-0.037	0.000	0.91
5.001	S501	30 minute 30 year Summer I+40%	32.600	30.967	0.062	0.000	0.44
6.000	S600	30 minute 30 year Summer I+40%	32.600	31.305	-0.095	0.000	0.29
6.001	S601	30 minute 30 year Summer I+40%	32.600	31.128	-0.087	0.000	0.37
6.002	S602	30 minute 30 year Summer I+40%	32.600	30.972	-0.083	0.000	0.42
5.002	S502	30 minute 30 year Summer I+40%	32.600	30.948	0.238	0.000	0.85
5.003	S503	30 minute 30 year Summer I+40%	32.500	30.880	0.220	0.000	0.63
7.000	S700	30 minute 30 year Summer I+40%	32.600	31.315	-0.085	0.000	0.39
7.001	S701	30 minute 30 year Summer I+40%	32.600	31.188	-0.112	0.000	0.15

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Summary Wizard of 30 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		3.9	OK
1.001	S101		18.1	OK
1.002	S102		22.5	OK
2.000	S200		14.4	OK
2.001	S201		28.3	OK
1.003	S103		36.4	OK
3.000	S300		61.1	OK
4.000	S400		48.6	OK
3.001	S301		109.0	OK
1.004	S104		59.8	OK
5.000	S500		17.1	OK
5.001	S501		20.8	SURCHARGED
6.000	S600		7.7	OK
6.001	S601		9.2	OK
6.002	S602		22.7	OK
5.002	S502		51.9	SURCHARGED
5.003	S503		48.6	SURCHARGED
7.000	S700		6.8	OK
7.001	S701		6.8	OK

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Summary Wizard of 30 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	30 minute 30 year Summer I+40%	32.550	30.838	0.273	0.000	0.74
1.005	S105	30 minute 30 year Summer I+40%	32.380	30.837	0.367	0.000	0.06
8.000	S800	30 minute 30 year Summer I+40%	32.400	31.352	-0.123	0.000	0.42
1.006	S106	30 minute 30 year Summer I+40%	32.380	30.834	0.674	0.000	0.69
1.007	FW105	30 minute 30 year Summer I+40%	32.380	30.026	-0.109	0.000	0.17

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		57.0	SURCHARGED
1.005	S105		7.4	SURCHARGED
8.000	S800		30.3	OK
1.006	S106		7.5	SURCHARGED
1.007	FW105		7.5	OK

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Summary Wizard of 60 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	60 minute 30 year Summer I+40%	32.600	31.290	-0.110	0.000	0.16
1.001	S101	60 minute 30 year Summer I+40%	32.400	31.062	-0.148	0.000	0.26
1.002	S102	60 minute 30 year Summer I+40%	32.600	30.971	-0.004	0.000	0.32
2.000	S200	60 minute 30 year Summer I+40%	32.600	31.331	-0.069	0.000	0.57
2.001	S201	60 minute 30 year Summer I+40%	32.500	30.972	-0.058	0.000	0.38
1.003	S103	60 minute 30 year Summer I+40%	32.380	30.970	-0.631	0.000	0.01
3.000	S300	60 minute 30 year Summer I+40%	32.600	31.387	-0.163	0.000	0.43
4.000	S400	60 minute 30 year Summer I+40%	32.600	31.375	-0.100	0.000	0.59
3.001	S301	60 minute 30 year Summer I+40%	32.600	30.972	0.127	0.000	0.47
1.004	S104	60 minute 30 year Summer I+40%	32.380	30.970	-0.451	0.000	0.01
5.000	S500	60 minute 30 year Summer I+40%	32.600	31.343	-0.057	0.000	0.69
5.001	S501	60 minute 30 year Summer I+40%	32.600	31.036	0.131	0.000	0.32
6.000	S600	60 minute 30 year Summer I+40%	32.600	31.298	-0.102	0.000	0.22
6.001	S601	60 minute 30 year Summer I+40%	32.600	31.119	-0.096	0.000	0.28
6.002	S602	60 minute 30 year Summer I+40%	32.600	31.040	-0.015	0.000	0.31
5.002	S502	60 minute 30 year Summer I+40%	32.600	31.016	0.306	0.000	0.61
5.003	S503	60 minute 30 year Summer I+40%	32.500	30.971	0.311	0.000	0.48
7.000	S700	60 minute 30 year Summer I+40%	32.600	31.306	-0.094	0.000	0.30
7.001	S701	60 minute 30 year Summer I+40%	32.600	31.183	-0.117	0.000	0.11

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Summary Wizard of 60 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		2.9	OK
1.001	S101		13.4	OK
1.002	S102		16.7	OK
2.000	S200		10.9	OK
2.001	S201		21.3	OK
1.003	S103		19.5	OK
3.000	S300		46.6	OK
4.000	S400		36.8	OK
3.001	S301		82.0	SURCHARGED
1.004	S104		45.6	OK
5.000	S500		13.1	OK
5.001	S501		15.3	SURCHARGED
6.000	S600		5.8	OK
6.001	S601		7.0	OK
6.002	S602		16.9	OK
5.002	S502		37.6	SURCHARGED
5.003	S503		37.0	SURCHARGED
7.000	S700		5.1	OK
7.001	S701		5.1	OK

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Summary Wizard of 60 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	60 minute 30 year Summer I+40%	32.550	30.970	0.405	0.000	0.59
1.005	S105	60 minute 30 year Summer I+40%	32.380	30.969	0.499	0.000	0.07
8.000	S800	60 minute 30 year Summer I+40%	32.400	31.338	-0.137	0.000	0.32
1.006	S106	60 minute 30 year Summer I+40%	32.380	30.965	0.805	0.000	0.74
1.007	FW105	60 minute 30 year Summer I+40%	32.380	30.028	-0.107	0.000	0.18

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		45.6	SURCHARGED
1.005	S105		7.9	SURCHARGED
8.000	S800		23.0	OK
1.006	S106		8.0	SURCHARGED
1.007	FW105		8.0	OK

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Summary Wizard of 120 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 30 year Summer I+40%	32.600	31.283	-0.117	0.000	0.11
1.001	S101	120 minute 30 year Summer I+40%	32.400	31.083	-0.127	0.000	0.17
1.002	S102	120 minute 30 year Summer I+40%	32.600	31.081	0.106	0.000	0.22
2.000	S200	120 minute 30 year Summer I+40%	32.600	31.315	-0.085	0.000	0.39
2.001	S201	120 minute 30 year Summer I+40%	32.500	31.082	0.052	0.000	0.25
1.003	S103	120 minute 30 year Summer I+40%	32.380	31.080	-0.521	0.000	0.00
3.000	S300	120 minute 30 year Summer I+40%	32.600	31.360	-0.190	0.000	0.29
4.000	S400	120 minute 30 year Summer I+40%	32.600	31.348	-0.127	0.000	0.40
3.001	S301	120 minute 30 year Summer I+40%	32.600	31.082	0.237	0.000	0.30
1.004	S104	120 minute 30 year Summer I+40%	32.380	31.080	-0.341	0.000	0.01
5.000	S500	120 minute 30 year Summer I+40%	32.600	31.322	-0.078	0.000	0.47
5.001	S501	120 minute 30 year Summer I+40%	32.600	31.084	0.179	0.000	0.21
6.000	S600	120 minute 30 year Summer I+40%	32.600	31.289	-0.111	0.000	0.15
6.001	S601	120 minute 30 year Summer I+40%	32.600	31.109	-0.106	0.000	0.19
6.002	S602	120 minute 30 year Summer I+40%	32.600	31.084	0.029	0.000	0.21
5.002	S502	120 minute 30 year Summer I+40%	32.600	31.082	0.372	0.000	0.37
5.003	S503	120 minute 30 year Summer I+40%	32.500	31.081	0.421	0.000	0.29
7.000	S700	120 minute 30 year Summer I+40%	32.600	31.295	-0.105	0.000	0.20
7.001	S701	120 minute 30 year Summer I+40%	32.600	31.177	-0.123	0.000	0.07

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Summary Wizard of 120 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		2.0	OK
1.001	S101		9.0	OK
1.002	S102		11.2	SURCHARGED
2.000	S200		7.4	OK
2.001	S201		14.3	SURCHARGED
1.003	S103		11.4	OK
3.000	S300		31.6	OK
4.000	S400		24.9	OK
3.001	S301		52.4	SURCHARGED
1.004	S104		28.8	OK
5.000	S500		8.8	OK
5.001	S501		10.0	SURCHARGED
6.000	S600		3.9	OK
6.001	S601		4.7	OK
6.002	S602		11.4	SURCHARGED
5.002	S502		22.6	SURCHARGED
5.003	S503		22.0	SURCHARGED
7.000	S700		3.4	OK
7.001	S701		3.4	OK

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Summary Wizard of 120 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	120 minute 30 year Summer I+40%	32.550	31.080	0.515	0.000	0.36
1.005	S105	120 minute 30 year Summer I+40%	32.380	31.079	0.609	0.000	0.07
8.000	S800	120 minute 30 year Summer I+40%	32.400	31.321	-0.154	0.000	0.22
1.006	S106	120 minute 30 year Summer I+40%	32.380	31.075	0.915	0.000	0.78
1.007	FW105	120 minute 30 year Summer I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		28.1	SURCHARGED
1.005	S105		8.3	SURCHARGED
8.000	S800		15.5	OK
1.006	S106		8.5	SURCHARGED
1.007	FW105		8.5	OK

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Summary Wizard of 180 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 30 year Summer I+40%	32.600	31.279	-0.121	0.000	0.08
1.001	S101	180 minute 30 year Summer I+40%	32.400	31.122	-0.088	0.000	0.13
1.002	S102	180 minute 30 year Summer I+40%	32.600	31.121	0.146	0.000	0.17
2.000	S200	180 minute 30 year Summer I+40%	32.600	31.306	-0.094	0.000	0.30
2.001	S201	180 minute 30 year Summer I+40%	32.500	31.121	0.091	0.000	0.19
1.003	S103	180 minute 30 year Summer I+40%	32.380	31.120	-0.481	0.000	0.00
3.000	S300	180 minute 30 year Summer I+40%	32.600	31.346	-0.204	0.000	0.22
4.000	S400	180 minute 30 year Summer I+40%	32.600	31.335	-0.140	0.000	0.31
3.001	S301	180 minute 30 year Summer I+40%	32.600	31.122	0.277	0.000	0.23
1.004	S104	180 minute 30 year Summer I+40%	32.380	31.119	-0.302	0.000	0.00
5.000	S500	180 minute 30 year Summer I+40%	32.600	31.312	-0.088	0.000	0.36
5.001	S501	180 minute 30 year Summer I+40%	32.600	31.122	0.217	0.000	0.17
6.000	S600	180 minute 30 year Summer I+40%	32.600	31.284	-0.116	0.000	0.12
6.001	S601	180 minute 30 year Summer I+40%	32.600	31.123	-0.092	0.000	0.14
6.002	S602	180 minute 30 year Summer I+40%	32.600	31.123	0.068	0.000	0.16
5.002	S502	180 minute 30 year Summer I+40%	32.600	31.121	0.411	0.000	0.30
5.003	S503	180 minute 30 year Summer I+40%	32.500	31.120	0.460	0.000	0.23
7.000	S700	180 minute 30 year Summer I+40%	32.600	31.289	-0.111	0.000	0.15
7.001	S701	180 minute 30 year Summer I+40%	32.600	31.173	-0.127	0.000	0.06

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Summary Wizard of 180 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.5	OK
1.001	S101		6.9	OK
1.002	S102		8.6	SURCHARGED
2.000	S200		5.7	OK
2.001	S201		11.0	SURCHARGED
1.003	S103		9.1	OK
3.000	S300		24.4	OK
4.000	S400		19.2	OK
3.001	S301		39.5	SURCHARGED
1.004	S104		22.6	OK
5.000	S500		6.8	OK
5.001	S501		8.2	SURCHARGED
6.000	S600		3.0	OK
6.001	S601		3.6	OK
6.002	S602		8.8	SURCHARGED
5.002	S502		18.5	SURCHARGED
5.003	S503		18.1	SURCHARGED
7.000	S700		2.7	OK
7.001	S701		2.7	OK

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Summary Wizard of 180 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	180 minute 30 year Summer I+40%	32.550	31.119	0.554	0.000	0.29
1.005	S105	180 minute 30 year Summer I+40%	32.380	31.118	0.648	0.000	0.07
8.000	S800	180 minute 30 year Summer I+40%	32.400	31.311	-0.164	0.000	0.17
1.006	S106	180 minute 30 year Summer I+40%	32.380	31.114	0.954	0.000	0.79
1.007	FW105	180 minute 30 year Summer I+40%	32.380	30.030	-0.105	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		22.6	SURCHARGED
1.005	S105		8.5	SURCHARGED
8.000	S800		11.9	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 240 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 30 year Summer I+40%	32.600	31.275	-0.125	0.000	0.07
1.001	S101	240 minute 30 year Summer I+40%	32.400	31.131	-0.079	0.000	0.11
1.002	S102	240 minute 30 year Summer I+40%	32.600	31.130	0.155	0.000	0.14
2.000	S200	240 minute 30 year Summer I+40%	32.600	31.300	-0.100	0.000	0.24
2.001	S201	240 minute 30 year Summer I+40%	32.500	31.131	0.101	0.000	0.16
1.003	S103	240 minute 30 year Summer I+40%	32.380	31.129	-0.472	0.000	0.00
3.000	S300	240 minute 30 year Summer I+40%	32.600	31.336	-0.214	0.000	0.18
4.000	S400	240 minute 30 year Summer I+40%	32.600	31.326	-0.149	0.000	0.25
3.001	S301	240 minute 30 year Summer I+40%	32.600	31.131	0.286	0.000	0.19
1.004	S104	240 minute 30 year Summer I+40%	32.380	31.129	-0.292	0.000	0.00
5.000	S500	240 minute 30 year Summer I+40%	32.600	31.306	-0.094	0.000	0.30
5.001	S501	240 minute 30 year Summer I+40%	32.600	31.132	0.227	0.000	0.15
6.000	S600	240 minute 30 year Summer I+40%	32.600	31.281	-0.119	0.000	0.10
6.001	S601	240 minute 30 year Summer I+40%	32.600	31.132	-0.083	0.000	0.12
6.002	S602	240 minute 30 year Summer I+40%	32.600	31.132	0.077	0.000	0.13
5.002	S502	240 minute 30 year Summer I+40%	32.600	31.130	0.420	0.000	0.26
5.003	S503	240 minute 30 year Summer I+40%	32.500	31.130	0.470	0.000	0.20
7.000	S700	240 minute 30 year Summer I+40%	32.600	31.285	-0.115	0.000	0.13
7.001	S701	240 minute 30 year Summer I+40%	32.600	31.171	-0.129	0.000	0.05

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Summary Wizard of 240 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.2	OK
1.001	S101		5.6	OK
1.002	S102		7.0	SURCHARGED
2.000	S200		4.7	OK
2.001	S201		9.0	SURCHARGED
1.003	S103		7.4	OK
3.000	S300		20.0	OK
4.000	S400		15.7	OK
3.001	S301		32.4	SURCHARGED
1.004	S104		18.2	OK
5.000	S500		5.6	OK
5.001	S501		6.9	SURCHARGED
6.000	S600		2.5	OK
6.001	S601		3.0	OK
6.002	S602		7.2	SURCHARGED
5.002	S502		15.9	SURCHARGED
5.003	S503		15.6	SURCHARGED
7.000	S700		2.2	OK
7.001	S701		2.2	OK

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Summary Wizard of 240 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	240 minute 30 year Summer I+40%	32.550	31.129	0.564	0.000	0.26
1.005	S105	240 minute 30 year Summer I+40%	32.380	31.127	0.657	0.000	0.07
8.000	S800	240 minute 30 year Summer I+40%	32.400	31.305	-0.170	0.000	0.14
1.006	S106	240 minute 30 year Summer I+40%	32.380	31.123	0.963	0.000	0.80
1.007	FW105	240 minute 30 year Summer I+40%	32.380	30.030	-0.105	0.000	0.20

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		19.7	SURCHARGED
1.005	S105		8.5	SURCHARGED
8.000	S800		9.8	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 360 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 30 year Summer I+40%	32.600	31.272	-0.128	0.000	0.05
1.001	S101	360 minute 30 year Summer I+40%	32.400	31.128	-0.082	0.000	0.08
1.002	S102	360 minute 30 year Summer I+40%	32.600	31.127	0.152	0.000	0.10
2.000	S200	360 minute 30 year Summer I+40%	32.600	31.293	-0.107	0.000	0.18
2.001	S201	360 minute 30 year Summer I+40%	32.500	31.127	0.097	0.000	0.12
1.003	S103	360 minute 30 year Summer I+40%	32.380	31.125	-0.476	0.000	0.00
3.000	S300	360 minute 30 year Summer I+40%	32.600	31.323	-0.227	0.000	0.14
4.000	S400	360 minute 30 year Summer I+40%	32.600	31.316	-0.159	0.000	0.19
3.001	S301	360 minute 30 year Summer I+40%	32.600	31.127	0.282	0.000	0.14
1.004	S104	360 minute 30 year Summer I+40%	32.380	31.125	-0.296	0.000	0.00
5.000	S500	360 minute 30 year Summer I+40%	32.600	31.298	-0.102	0.000	0.22
5.001	S501	360 minute 30 year Summer I+40%	32.600	31.128	0.223	0.000	0.11
6.000	S600	360 minute 30 year Summer I+40%	32.600	31.276	-0.124	0.000	0.07
6.001	S601	360 minute 30 year Summer I+40%	32.600	31.129	-0.086	0.000	0.09
6.002	S602	360 minute 30 year Summer I+40%	32.600	31.128	0.073	0.000	0.10
5.002	S502	360 minute 30 year Summer I+40%	32.600	31.127	0.417	0.000	0.20
5.003	S503	360 minute 30 year Summer I+40%	32.500	31.126	0.466	0.000	0.15
7.000	S700	360 minute 30 year Summer I+40%	32.600	31.281	-0.119	0.000	0.09
7.001	S701	360 minute 30 year Summer I+40%	32.600	31.168	-0.132	0.000	0.04

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Summary Wizard of 360 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.9	OK
1.001	S101		4.2	OK
1.002	S102		5.2	SURCHARGED
2.000	S200		3.5	OK
2.001	S201		6.7	SURCHARGED
1.003	S103		5.6	OK
3.000	S300		15.0	OK
4.000	S400		11.7	OK
3.001	S301		25.1	SURCHARGED
1.004	S104		15.3	OK
5.000	S500		4.2	OK
5.001	S501		5.1	SURCHARGED
6.000	S600		1.9	OK
6.001	S601		2.2	OK
6.002	S602		5.3	SURCHARGED
5.002	S502		12.1	SURCHARGED
5.003	S503		11.8	SURCHARGED
7.000	S700		1.6	OK
7.001	S701		1.6	OK

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Summary Wizard of 360 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	360 minute 30 year Summer I+40%	32.550	31.125	0.560	0.000	0.19
1.005	S105	360 minute 30 year Summer I+40%	32.380	31.124	0.654	0.000	0.07
8.000	S800	360 minute 30 year Summer I+40%	32.400	31.298	-0.177	0.000	0.10
1.006	S106	360 minute 30 year Summer I+40%	32.380	31.119	0.959	0.000	0.80
1.007	FW105	360 minute 30 year Summer I+40%	32.380	30.030	-0.105	0.000	0.20

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		14.4	SURCHARGED
1.005	S105		8.4	SURCHARGED
8.000	S800		7.3	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 480 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 30 year Summer I+40%	32.600	31.269	-0.131	0.000	0.04
1.001	S101	480 minute 30 year Summer I+40%	32.400	31.116	-0.094	0.000	0.06
1.002	S102	480 minute 30 year Summer I+40%	32.600	31.115	0.140	0.000	0.08
2.000	S200	480 minute 30 year Summer I+40%	32.600	31.288	-0.112	0.000	0.15
2.001	S201	480 minute 30 year Summer I+40%	32.500	31.115	0.085	0.000	0.10
1.003	S103	480 minute 30 year Summer I+40%	32.380	31.113	-0.488	0.000	0.00
3.000	S300	480 minute 30 year Summer I+40%	32.600	31.316	-0.234	0.000	0.11
4.000	S400	480 minute 30 year Summer I+40%	32.600	31.308	-0.167	0.000	0.15
3.001	S301	480 minute 30 year Summer I+40%	32.600	31.115	0.270	0.000	0.12
1.004	S104	480 minute 30 year Summer I+40%	32.380	31.113	-0.308	0.000	0.00
5.000	S500	480 minute 30 year Summer I+40%	32.600	31.293	-0.107	0.000	0.18
5.001	S501	480 minute 30 year Summer I+40%	32.600	31.116	0.211	0.000	0.09
6.000	S600	480 minute 30 year Summer I+40%	32.600	31.273	-0.127	0.000	0.06
6.001	S601	480 minute 30 year Summer I+40%	32.600	31.117	-0.098	0.000	0.07
6.002	S602	480 minute 30 year Summer I+40%	32.600	31.116	0.061	0.000	0.08
5.002	S502	480 minute 30 year Summer I+40%	32.600	31.115	0.405	0.000	0.16
5.003	S503	480 minute 30 year Summer I+40%	32.500	31.114	0.454	0.000	0.12
7.000	S700	480 minute 30 year Summer I+40%	32.600	31.277	-0.123	0.000	0.08
7.001	S701	480 minute 30 year Summer I+40%	32.600	31.167	-0.133	0.000	0.03

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Summary Wizard of 480 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.7	OK
1.001	S101		3.4	OK
1.002	S102		4.2	SURCHARGED
2.000	S200		2.8	OK
2.001	S201		5.4	SURCHARGED
1.003	S103		4.9	OK
3.000	S300		12.1	OK
4.000	S400		9.5	OK
3.001	S301		20.2	SURCHARGED
1.004	S104		12.9	OK
5.000	S500		3.4	OK
5.001	S501		4.2	SURCHARGED
6.000	S600		1.5	OK
6.001	S601		1.8	OK
6.002	S602		4.3	SURCHARGED
5.002	S502		9.7	SURCHARGED
5.003	S503		9.3	SURCHARGED
7.000	S700		1.3	OK
7.001	S701		1.3	OK

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Summary Wizard of 480 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	480 minute 30 year Summer I+40%	32.550	31.113	0.548	0.000	0.15
1.005	S105	480 minute 30 year Summer I+40%	32.380	31.112	0.642	0.000	0.07
8.000	S800	480 minute 30 year Summer I+40%	32.400	31.293	-0.182	0.000	0.08
1.006	S106	480 minute 30 year Summer I+40%	32.380	31.108	0.948	0.000	0.79
1.007	FW105	480 minute 30 year Summer I+40%	32.380	30.030	-0.105	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		11.8	SURCHARGED
1.005	S105		8.2	SURCHARGED
8.000	S800		5.9	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 600 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 30 year Summer I+40%	32.600	31.268	-0.132	0.000	0.03
1.001	S101	600 minute 30 year Summer I+40%	32.400	31.099	-0.111	0.000	0.05
1.002	S102	600 minute 30 year Summer I+40%	32.600	31.098	0.123	0.000	0.07
2.000	S200	600 minute 30 year Summer I+40%	32.600	31.285	-0.115	0.000	0.12
2.001	S201	600 minute 30 year Summer I+40%	32.500	31.098	0.068	0.000	0.08
1.003	S103	600 minute 30 year Summer I+40%	32.380	31.096	-0.505	0.000	0.00
3.000	S300	600 minute 30 year Summer I+40%	32.600	31.311	-0.239	0.000	0.09
4.000	S400	600 minute 30 year Summer I+40%	32.600	31.303	-0.172	0.000	0.13
3.001	S301	600 minute 30 year Summer I+40%	32.600	31.098	0.253	0.000	0.10
1.004	S104	600 minute 30 year Summer I+40%	32.380	31.096	-0.325	0.000	0.00
5.000	S500	600 minute 30 year Summer I+40%	32.600	31.289	-0.111	0.000	0.15
5.001	S501	600 minute 30 year Summer I+40%	32.600	31.099	0.194	0.000	0.08
6.000	S600	600 minute 30 year Summer I+40%	32.600	31.271	-0.129	0.000	0.05
6.001	S601	600 minute 30 year Summer I+40%	32.600	31.100	-0.115	0.000	0.06
6.002	S602	600 minute 30 year Summer I+40%	32.600	31.099	0.044	0.000	0.07
5.002	S502	600 minute 30 year Summer I+40%	32.600	31.098	0.388	0.000	0.14
5.003	S503	600 minute 30 year Summer I+40%	32.500	31.097	0.437	0.000	0.11
7.000	S700	600 minute 30 year Summer I+40%	32.600	31.275	-0.125	0.000	0.06
7.001	S701	600 minute 30 year Summer I+40%	32.600	31.166	-0.134	0.000	0.02

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Summary Wizard of 600 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.9	OK
1.002	S102		3.6	SURCHARGED
2.000	S200		2.4	OK
2.001	S201		4.6	SURCHARGED
1.003	S103		4.5	OK
3.000	S300		10.2	OK
4.000	S400		8.0	OK
3.001	S301		17.2	SURCHARGED
1.004	S104		11.5	OK
5.000	S500		2.9	OK
5.001	S501		3.6	SURCHARGED
6.000	S600		1.3	OK
6.001	S601		1.5	OK
6.002	S602		3.6	SURCHARGED
5.002	S502		8.4	SURCHARGED
5.003	S503		8.1	SURCHARGED
7.000	S700		1.1	OK
7.001	S701		1.1	OK

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Summary Wizard of 600 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	600 minute 30 year Summer I+40%	32.550	31.096	0.531	0.000	0.13
1.005	S105	600 minute 30 year Summer I+40%	32.380	31.095	0.625	0.000	0.07
8.000	S800	600 minute 30 year Summer I+40%	32.400	31.289	-0.186	0.000	0.07
1.006	S106	600 minute 30 year Summer I+40%	32.380	31.091	0.931	0.000	0.79
1.007	FW105	600 minute 30 year Summer I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		10.3	SURCHARGED
1.005	S105		8.0	SURCHARGED
8.000	S800		5.0	OK
1.006	S106		8.5	SURCHARGED
1.007	FW105		8.5	OK

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Summary Wizard of 720 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 30 year Summer I+40%	32.600	31.267	-0.133	0.000	0.03
1.001	S101	720 minute 30 year Summer I+40%	32.400	31.079	-0.131	0.000	0.05
1.002	S102	720 minute 30 year Summer I+40%	32.600	31.078	0.103	0.000	0.06
2.000	S200	720 minute 30 year Summer I+40%	32.600	31.283	-0.117	0.000	0.11
2.001	S201	720 minute 30 year Summer I+40%	32.500	31.078	0.048	0.000	0.07
1.003	S103	720 minute 30 year Summer I+40%	32.380	31.077	-0.524	0.000	0.00
3.000	S300	720 minute 30 year Summer I+40%	32.600	31.307	-0.243	0.000	0.08
4.000	S400	720 minute 30 year Summer I+40%	32.600	31.300	-0.175	0.000	0.11
3.001	S301	720 minute 30 year Summer I+40%	32.600	31.079	0.234	0.000	0.09
1.004	S104	720 minute 30 year Summer I+40%	32.380	31.077	-0.344	0.000	0.00
5.000	S500	720 minute 30 year Summer I+40%	32.600	31.286	-0.114	0.000	0.13
5.001	S501	720 minute 30 year Summer I+40%	32.600	31.079	0.174	0.000	0.07
6.000	S600	720 minute 30 year Summer I+40%	32.600	31.270	-0.130	0.000	0.04
6.001	S601	720 minute 30 year Summer I+40%	32.600	31.087	-0.128	0.000	0.05
6.002	S602	720 minute 30 year Summer I+40%	32.600	31.080	0.025	0.000	0.06
5.002	S502	720 minute 30 year Summer I+40%	32.600	31.078	0.368	0.000	0.12
5.003	S503	720 minute 30 year Summer I+40%	32.500	31.078	0.418	0.000	0.10
7.000	S700	720 minute 30 year Summer I+40%	32.600	31.273	-0.127	0.000	0.06
7.001	S701	720 minute 30 year Summer I+40%	32.600	31.165	-0.135	0.000	0.02

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Summary Wizard of 720 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.5	OK
1.002	S102		3.1	SURCHARGED
2.000	S200		2.1	OK
2.001	S201		4.0	SURCHARGED
1.003	S103		4.1	OK
3.000	S300		8.9	OK
4.000	S400		7.0	OK
3.001	S301		15.1	SURCHARGED
1.004	S104		10.5	OK
5.000	S500		2.5	OK
5.001	S501		3.2	SURCHARGED
6.000	S600		1.1	OK
6.001	S601		1.3	OK
6.002	S602		3.2	SURCHARGED
5.002	S502		7.6	SURCHARGED
5.003	S503		7.4	SURCHARGED
7.000	S700		1.0	OK
7.001	S701		1.0	OK

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Summary Wizard of 720 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	720 minute 30 year Summer I+40%	32.550	31.077	0.512	0.000	0.12
1.005	S105	720 minute 30 year Summer I+40%	32.380	31.075	0.605	0.000	0.07
8.000	S800	720 minute 30 year Summer I+40%	32.400	31.286	-0.189	0.000	0.06
1.006	S106	720 minute 30 year Summer I+40%	32.380	31.071	0.911	0.000	0.78
1.007	FW105	720 minute 30 year Summer I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		9.1	SURCHARGED
1.005	S105		7.8	SURCHARGED
8.000	S800		4.3	OK
1.006	S106		8.4	SURCHARGED
1.007	FW105		8.4	OK

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Summary Wizard of 960 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 30 year Summer I+40%	32.600	31.266	-0.134	0.000	0.02
1.001	S101	960 minute 30 year Summer I+40%	32.400	31.038	-0.172	0.000	0.04
1.002	S102	960 minute 30 year Summer I+40%	32.600	31.037	0.062	0.000	0.05
2.000	S200	960 minute 30 year Summer I+40%	32.600	31.280	-0.120	0.000	0.09
2.001	S201	960 minute 30 year Summer I+40%	32.500	31.038	0.008	0.000	0.06
1.003	S103	960 minute 30 year Summer I+40%	32.380	31.036	-0.565	0.000	0.00
3.000	S300	960 minute 30 year Summer I+40%	32.600	31.300	-0.250	0.000	0.07
4.000	S400	960 minute 30 year Summer I+40%	32.600	31.295	-0.180	0.000	0.09
3.001	S301	960 minute 30 year Summer I+40%	32.600	31.038	0.193	0.000	0.07
1.004	S104	960 minute 30 year Summer I+40%	32.380	31.036	-0.385	0.000	0.00
5.000	S500	960 minute 30 year Summer I+40%	32.600	31.282	-0.118	0.000	0.11
5.001	S501	960 minute 30 year Summer I+40%	32.600	31.039	0.134	0.000	0.05
6.000	S600	960 minute 30 year Summer I+40%	32.600	31.268	-0.132	0.000	0.03
6.001	S601	960 minute 30 year Summer I+40%	32.600	31.085	-0.130	0.000	0.04
6.002	S602	960 minute 30 year Summer I+40%	32.600	31.039	-0.016	0.000	0.05
5.002	S502	960 minute 30 year Summer I+40%	32.600	31.038	0.328	0.000	0.10
5.003	S503	960 minute 30 year Summer I+40%	32.500	31.037	0.377	0.000	0.08
7.000	S700	960 minute 30 year Summer I+40%	32.600	31.270	-0.130	0.000	0.05
7.001	S701	960 minute 30 year Summer I+40%	32.600	31.162	-0.138	0.000	0.02

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Summary Wizard of 960 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		2.0	OK
1.002	S102		2.5	SURCHARGED
2.000	S200		1.7	OK
2.001	S201		3.2	SURCHARGED
1.003	S103		3.6	OK
3.000	S300		7.2	OK
4.000	S400		5.6	OK
3.001	S301		12.4	SURCHARGED
1.004	S104		9.2	OK
5.000	S500		2.0	OK
5.001	S501		2.5	SURCHARGED
6.000	S600		0.9	OK
6.001	S601		1.1	OK
6.002	S602		2.6	OK
5.002	S502		6.1	SURCHARGED
5.003	S503		6.0	SURCHARGED
7.000	S700		0.8	OK
7.001	S701		0.8	OK

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Summary Wizard of 960 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	960 minute 30 year Summer I+40%	32.550	31.036	0.471	0.000	0.10
1.005	S105	960 minute 30 year Summer I+40%	32.380	31.035	0.565	0.000	0.07
8.000	S800	960 minute 30 year Summer I+40%	32.400	31.282	-0.193	0.000	0.05
1.006	S106	960 minute 30 year Summer I+40%	32.380	31.031	0.871	0.000	0.77
1.007	FW105	960 minute 30 year Summer I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.5	SURCHARGED
1.005	S105		7.6	SURCHARGED
8.000	S800		3.5	OK
1.006	S106		8.3	SURCHARGED
1.007	FW105		8.3	OK

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Summary Wizard of 1440 minute 30 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 30 year Summer I+40%	32.600	31.263	-0.137	0.000	0.02
1.001	S101	1440 minute 30 year Summer I+40%	32.400	31.010	-0.200	0.000	0.03
1.002	S102	1440 minute 30 year Summer I+40%	32.600	30.961	-0.014	0.000	0.04
2.000	S200	1440 minute 30 year Summer I+40%	32.600	31.275	-0.125	0.000	0.06
2.001	S201	1440 minute 30 year Summer I+40%	32.500	30.962	-0.068	0.000	0.04
1.003	S103	1440 minute 30 year Summer I+40%	32.380	30.960	-0.641	0.000	0.00
3.000	S300	1440 minute 30 year Summer I+40%	32.600	31.292	-0.258	0.000	0.05
4.000	S400	1440 minute 30 year Summer I+40%	32.600	31.288	-0.187	0.000	0.07
3.001	S301	1440 minute 30 year Summer I+40%	32.600	30.962	0.117	0.000	0.05
1.004	S104	1440 minute 30 year Summer I+40%	32.380	30.960	-0.461	0.000	0.00
5.000	S500	1440 minute 30 year Summer I+40%	32.600	31.278	-0.122	0.000	0.08
5.001	S501	1440 minute 30 year Summer I+40%	32.600	30.963	0.058	0.000	0.04
6.000	S600	1440 minute 30 year Summer I+40%	32.600	31.266	-0.134	0.000	0.02
6.001	S601	1440 minute 30 year Summer I+40%	32.600	31.082	-0.133	0.000	0.03
6.002	S602	1440 minute 30 year Summer I+40%	32.600	30.963	-0.092	0.000	0.03
5.002	S502	1440 minute 30 year Summer I+40%	32.600	30.962	0.252	0.000	0.07
5.003	S503	1440 minute 30 year Summer I+40%	32.500	30.961	0.301	0.000	0.06
7.000	S700	1440 minute 30 year Summer I+40%	32.600	31.268	-0.132	0.000	0.03
7.001	S701	1440 minute 30 year Summer I+40%	32.600	31.159	-0.141	0.000	0.01

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Summary Wizard of 1440 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.5	OK
1.002	S102		1.8	OK
2.000	S200		1.2	OK
2.001	S201		2.4	OK
1.003	S103		3.1	OK
3.000	S300		5.3	OK
4.000	S400		4.1	OK
3.001	S301		9.2	SURCHARGED
1.004	S104		7.7	OK
5.000	S500		1.5	OK
5.001	S501		1.9	SURCHARGED
6.000	S600		0.7	OK
6.001	S601		0.8	OK
6.002	S602		1.9	OK
5.002	S502		4.6	SURCHARGED
5.003	S503		4.5	SURCHARGED
7.000	S700		0.6	OK
7.001	S701		0.6	OK

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Summary Wizard of 1440 minute 30 year Summer I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	1440 minute 30 year Summer I+40%	32.550	30.961	0.396	0.000	0.07
1.005	S105	1440 minute 30 year Summer I+40%	32.380	30.959	0.489	0.000	0.06
8.000	S800	1440 minute 30 year Summer I+40%	32.400	31.277	-0.198	0.000	0.04
1.006	S106	1440 minute 30 year Summer I+40%	32.380	30.955	0.795	0.000	0.74
1.007	FW105	1440 minute 30 year Summer I+40%	32.380	30.028	-0.107	0.000	0.18

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.5	SURCHARGED
1.005	S105		7.4	SURCHARGED
8.000	S800		2.6	OK
1.006	S106		8.0	SURCHARGED
1.007	FW105		8.0	OK

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Summary Wizard of 15 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	15 minute 100 year Summer I+45%	32.600	31.307	-0.093	0.000	0.31
1.001	S101	15 minute 100 year Summer I+45%	32.400	31.102	-0.108	0.000	0.53
1.002	S102	15 minute 100 year Summer I+45%	32.600	30.886	-0.089	0.000	0.67
2.000	S200	15 minute 100 year Summer I+45%	32.600	31.461	0.061	0.000	1.08
2.001	S201	15 minute 100 year Summer I+45%	32.500	30.951	-0.079	0.000	0.73
1.003	S103	15 minute 100 year Summer I+45%	32.380	30.859	-0.742	0.000	0.02
3.000	S300	15 minute 100 year Summer I+45%	32.600	31.460	-0.090	0.000	0.81
4.000	S400	15 minute 100 year Summer I+45%	32.600	31.650	0.175	0.000	1.12
3.001	S301	15 minute 100 year Summer I+45%	32.600	30.915	0.070	0.000	0.89
1.004	S104	15 minute 100 year Summer I+45%	32.380	30.859	-0.562	0.000	0.02
5.000	S500	15 minute 100 year Summer I+45%	32.600	31.736	0.336	0.000	1.23
5.001	S501	15 minute 100 year Summer I+45%	32.600	31.038	0.133	0.000	0.56
6.000	S600	15 minute 100 year Summer I+45%	32.600	31.319	-0.081	0.000	0.43
6.001	S601	15 minute 100 year Summer I+45%	32.600	31.144	-0.071	0.000	0.54
6.002	S602	15 minute 100 year Summer I+45%	32.600	31.038	-0.017	0.000	0.64
5.002	S502	15 minute 100 year Summer I+45%	32.600	31.017	0.307	0.000	1.14
5.003	S503	15 minute 100 year Summer I+45%	32.500	30.948	0.288	0.000	0.88
7.000	S700	15 minute 100 year Summer I+45%	32.600	31.332	-0.068	0.000	0.57
7.001	S701	15 minute 100 year Summer I+45%	32.600	31.197	-0.103	0.000	0.21

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		5.6	OK
1.001	S101		27.6	OK
1.002	S102		34.7	OK
2.000	S200		20.6	SURCHARGED
2.001	S201		41.5	OK
1.003	S103		76.1	OK
3.000	S300		88.6	OK
4.000	S400		69.9	SURCHARGED
3.001	S301		154.7	SURCHARGED
1.004	S104		98.0	OK
5.000	S500		23.2	SURCHARGED
5.001	S501		26.7	SURCHARGED
6.000	S600		11.3	OK
6.001	S601		13.5	OK
6.002	S602		34.5	OK
5.002	S502		70.1	SURCHARGED
5.003	S503		67.6	SURCHARGED
7.000	S700		9.8	OK
7.001	S701		9.8	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	15 minute 100 year Summer I+45%	32.550	30.894	0.329	0.000	1.10
1.005	S105	15 minute 100 year Summer I+45%	32.380	30.858	0.388	0.000	0.07
8.000	S800	15 minute 100 year Summer I+45%	32.400	31.379	-0.096	0.000	0.61
1.006	S106	15 minute 100 year Summer I+45%	32.380	30.856	0.696	0.000	0.70
1.007	FW105	15 minute 100 year Summer I+45%	32.380	30.026	-0.109	0.000	0.17

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		84.9	SURCHARGED
1.005	S105		7.5	SURCHARGED
8.000	S800		43.4	OK
1.006	S106		7.6	SURCHARGED
1.007	FW105		7.6	OK

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Summary Wizard of 30 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	30 minute 100 year Summer I+45%	32.600	31.304	-0.096	0.000	0.28
1.001	S101	30 minute 100 year Summer I+45%	32.400	31.094	-0.116	0.000	0.47
1.002	S102	30 minute 100 year Summer I+45%	32.600	31.054	0.079	0.000	0.59
2.000	S200	30 minute 100 year Summer I+45%	32.600	31.404	0.004	0.000	1.00
2.001	S201	30 minute 100 year Summer I+45%	32.500	31.056	0.026	0.000	0.67
1.003	S103	30 minute 100 year Summer I+45%	32.380	31.054	-0.547	0.000	0.01
3.000	S300	30 minute 100 year Summer I+45%	32.600	31.448	-0.102	0.000	0.75
4.000	S400	30 minute 100 year Summer I+45%	32.600	31.533	0.058	0.000	1.04
3.001	S301	30 minute 100 year Summer I+45%	32.600	31.067	0.222	0.000	0.79
1.004	S104	30 minute 100 year Summer I+45%	32.380	31.054	-0.367	0.000	0.01
5.000	S500	30 minute 100 year Summer I+45%	32.600	31.698	0.298	0.000	1.13
5.001	S501	30 minute 100 year Summer I+45%	32.600	31.181	0.276	0.000	0.54
6.000	S600	30 minute 100 year Summer I+45%	32.600	31.316	-0.084	0.000	0.40
6.001	S601	30 minute 100 year Summer I+45%	32.600	31.191	-0.024	0.000	0.50
6.002	S602	30 minute 100 year Summer I+45%	32.600	31.183	0.128	0.000	0.56
5.002	S502	30 minute 100 year Summer I+45%	32.600	31.160	0.450	0.000	1.05
5.003	S503	30 minute 100 year Summer I+45%	32.500	31.090	0.430	0.000	0.83
7.000	S700	30 minute 100 year Summer I+45%	32.600	31.327	-0.073	0.000	0.53
7.001	S701	30 minute 100 year Summer I+45%	32.600	31.195	-0.105	0.000	0.20

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Summary Wizard of 30 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		5.2	OK
1.001	S101		24.5	OK
1.002	S102		30.4	SURCHARGED
2.000	S200		19.1	SURCHARGED
2.001	S201		37.8	SURCHARGED
1.003	S103		36.7	OK
3.000	S300		82.5	OK
4.000	S400		64.8	SURCHARGED
3.001	S301		136.3	SURCHARGED
1.004	S104		72.9	OK
5.000	S500		21.2	SURCHARGED
5.001	S501		25.7	SURCHARGED
6.000	S600		10.4	OK
6.001	S601		12.4	OK
6.002	S602		30.0	SURCHARGED
5.002	S502		64.7	SURCHARGED
5.003	S503		64.4	SURCHARGED
7.000	S700		9.1	OK
7.001	S701		9.1	OK

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Summary Wizard of 30 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	30 minute 100 year Summer I+45%	32.550	31.053	0.488	0.000	1.04
1.005	S105	30 minute 100 year Summer I+45%	32.380	31.053	0.583	0.000	0.07
8.000	S800	30 minute 100 year Summer I+45%	32.400	31.372	-0.103	0.000	0.57
1.006	S106	30 minute 100 year Summer I+45%	32.380	31.049	0.889	0.000	0.77
1.007	FW105	30 minute 100 year Summer I+45%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		80.2	SURCHARGED
1.005	S105		8.2	SURCHARGED
8.000	S800		40.9	OK
1.006	S106		8.4	SURCHARGED
1.007	FW105		8.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	60 minute 100 year Summer I+45%	32.600	31.297	-0.103	0.000	0.22
1.001	S101	60 minute 100 year Summer I+45%	32.400	31.253	0.043	0.000	0.35
1.002	S102	60 minute 100 year Summer I+45%	32.600	31.252	0.277	0.000	0.44
2.000	S200	60 minute 100 year Summer I+45%	32.600	31.350	-0.050	0.000	0.78
2.001	S201	60 minute 100 year Summer I+45%	32.500	31.253	0.223	0.000	0.51
1.003	S103	60 minute 100 year Summer I+45%	32.380	31.251	-0.350	0.000	0.01
3.000	S300	60 minute 100 year Summer I+45%	32.600	31.415	-0.135	0.000	0.58
4.000	S400	60 minute 100 year Summer I+45%	32.600	31.403	-0.072	0.000	0.80
3.001	S301	60 minute 100 year Summer I+45%	32.600	31.253	0.408	0.000	0.58
1.004	S104	60 minute 100 year Summer I+45%	32.380	31.250	-0.171	0.000	0.01
5.000	S500	60 minute 100 year Summer I+45%	32.600	31.510	0.110	0.000	0.89
5.001	S501	60 minute 100 year Summer I+45%	32.600	31.299	0.394	0.000	0.43
6.000	S600	60 minute 100 year Summer I+45%	32.600	31.318	-0.082	0.000	0.30
6.001	S601	60 minute 100 year Summer I+45%	32.600	31.309	0.094	0.000	0.38
6.002	S602	60 minute 100 year Summer I+45%	32.600	31.301	0.246	0.000	0.42
5.002	S502	60 minute 100 year Summer I+45%	32.600	31.279	0.569	0.000	0.86
5.003	S503	60 minute 100 year Summer I+45%	32.500	31.249	0.589	0.000	0.67
7.000	S700	60 minute 100 year Summer I+45%	32.600	31.316	-0.084	0.000	0.40
7.001	S701	60 minute 100 year Summer I+45%	32.600	31.248	-0.052	0.000	0.15

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		4.0	OK
1.001	S101		18.3	SURCHARGED
1.002	S102		22.7	SURCHARGED
2.000	S200		14.9	OK
2.001	S201		28.9	SURCHARGED
1.003	S103		22.1	OK
3.000	S300		63.4	OK
4.000	S400		50.1	OK
3.001	S301		100.9	SURCHARGED
1.004	S104		49.4	OK
5.000	S500		16.8	SURCHARGED
5.001	S501		20.3	SURCHARGED
6.000	S600		7.9	OK
6.001	S601		9.5	SURCHARGED
6.002	S602		22.6	SURCHARGED
5.002	S502		52.7	SURCHARGED
5.003	S503		51.7	SURCHARGED
7.000	S700		7.0	OK
7.001	S701		7.0	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	60 minute 100 year Summer I+45%	32.550	31.248	0.683	0.000	0.84
1.005	S105	60 minute 100 year Summer I+45%	32.380	31.247	0.777	0.000	0.08
8.000	S800	60 minute 100 year Summer I+45%	32.400	31.354	-0.121	0.000	0.44
1.006	S106	60 minute 100 year Summer I+45%	32.380	31.242	1.082	0.000	0.84
1.007	FW105	60 minute 100 year Summer I+45%	32.380	30.031	-0.104	0.000	0.21

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		64.7	SURCHARGED
1.005	S105		9.0	SURCHARGED
8.000	S800		31.2	OK
1.006	S106		9.1	SURCHARGED
1.007	FW105		9.1	OK

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Summary Wizard of 120 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 100 year Summer I+45%	32.600	31.490	0.090	0.000	0.15
1.001	S101	120 minute 100 year Summer I+45%	32.400	31.489	0.279	0.000	0.23
1.002	S102	120 minute 100 year Summer I+45%	32.600	31.489	0.514	0.000	0.29
2.000	S200	120 minute 100 year Summer I+45%	32.600	31.493	0.093	0.000	0.53
2.001	S201	120 minute 100 year Summer I+45%	32.500	31.489	0.459	0.000	0.34
1.003	S103	120 minute 100 year Summer I+45%	32.380	31.487	-0.114	0.000	0.00
3.000	S300	120 minute 100 year Summer I+45%	32.600	31.493	-0.057	0.000	0.39
4.000	S400	120 minute 100 year Summer I+45%	32.600	31.495	0.020	0.000	0.54
3.001	S301	120 minute 100 year Summer I+45%	32.600	31.488	0.643	0.000	0.41
1.004	S104	120 minute 100 year Summer I+45%	32.380	31.486	0.065	0.000	0.01
5.000	S500	120 minute 100 year Summer I+45%	32.600	31.498	0.098	0.000	0.63
5.001	S501	120 minute 100 year Summer I+45%	32.600	31.491	0.586	0.000	0.30
6.000	S600	120 minute 100 year Summer I+45%	32.600	31.493	0.093	0.000	0.21
6.001	S601	120 minute 100 year Summer I+45%	32.600	31.493	0.278	0.000	0.25
6.002	S602	120 minute 100 year Summer I+45%	32.600	31.492	0.437	0.000	0.28
5.002	S502	120 minute 100 year Summer I+45%	32.600	31.489	0.779	0.000	0.59
5.003	S503	120 minute 100 year Summer I+45%	32.500	31.488	0.828	0.000	0.46
7.000	S700	120 minute 100 year Summer I+45%	32.600	31.489	0.089	0.000	0.27
7.001	S701	120 minute 100 year Summer I+45%	32.600	31.488	0.188	0.000	0.10

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		2.7	SURCHARGED
1.001	S101		12.2	SURCHARGED
1.002	S102		14.9	SURCHARGED
2.000	S200		10.1	SURCHARGED
2.001	S201		19.5	SURCHARGED
1.003	S103		15.0	OK
3.000	S300		43.1	OK
4.000	S400		33.9	SURCHARGED
3.001	S301		70.9	SURCHARGED
1.004	S104		35.8	SURCHARGED
5.000	S500		11.9	SURCHARGED
5.001	S501		14.4	SURCHARGED
6.000	S600		5.4	SURCHARGED
6.001	S601		6.2	SURCHARGED
6.002	S602		15.1	SURCHARGED
5.002	S502		36.3	SURCHARGED
5.003	S503		35.8	SURCHARGED
7.000	S700		4.7	SURCHARGED
7.001	S701		4.7	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 100 year Summer I+45%	32.550	31.487	0.922	0.000	0.58
1.005	S105	120 minute 100 year Summer I+45%	32.380	31.486	1.016	0.000	0.08
8.000	S800	120 minute 100 year Summer I+45%	32.400	31.485	0.010	0.000	0.30
1.006	S106	120 minute 100 year Summer I+45%	32.380	31.482	1.322	0.000	0.91
1.007	FW105	120 minute 100 year Summer I+45%	32.380	30.033	-0.102	0.000	0.22

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		44.6	SURCHARGED
1.005	S105		9.6	SURCHARGED
8.000	S800		21.1	SURCHARGED
1.006	S106		9.9	SURCHARGED
1.007	FW105		9.9	OK

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Summary Wizard of 180 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 100 year Summer I+45%	32.600	31.948	0.548	0.000	0.11
1.001	S101	180 minute 100 year Summer I+45%	32.400	31.947	0.737	0.000	0.18
1.002	S102	180 minute 100 year Summer I+45%	32.600	31.946	0.971	0.000	0.21
2.000	S200	180 minute 100 year Summer I+45%	32.600	31.950	0.550	0.000	0.40
2.001	S201	180 minute 100 year Summer I+45%	32.500	31.946	0.916	0.000	0.26
1.003	S103	180 minute 100 year Summer I+45%	32.380	31.944	0.343	0.000	0.00
3.000	S300	180 minute 100 year Summer I+45%	32.600	31.951	0.401	0.000	0.30
4.000	S400	180 minute 100 year Summer I+45%	32.600	31.952	0.477	0.000	0.42
3.001	S301	180 minute 100 year Summer I+45%	32.600	31.947	1.102	0.000	0.31
1.004	S104	180 minute 100 year Summer I+45%	32.380	31.944	0.523	0.000	0.01
5.000	S500	180 minute 100 year Summer I+45%	32.600	31.955	0.555	0.000	0.49
5.001	S501	180 minute 100 year Summer I+45%	32.600	31.950	1.045	0.000	0.22
6.000	S600	180 minute 100 year Summer I+45%	32.600	31.951	0.551	0.000	0.16
6.001	S601	180 minute 100 year Summer I+45%	32.600	31.951	0.736	0.000	0.19
6.002	S602	180 minute 100 year Summer I+45%	32.600	31.950	0.895	0.000	0.20
5.002	S502	180 minute 100 year Summer I+45%	32.600	31.948	1.238	0.000	0.43
5.003	S503	180 minute 100 year Summer I+45%	32.500	31.947	1.287	0.000	0.34
7.000	S700	180 minute 100 year Summer I+45%	32.600	31.948	0.548	0.000	0.21
7.001	S701	180 minute 100 year Summer I+45%	32.600	31.947	0.647	0.000	0.08

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		2.1	SURCHARGED
1.001	S101		9.4	SURCHARGED
1.002	S102		10.7	SURCHARGED
2.000	S200		7.7	SURCHARGED
2.001	S201		14.5	SURCHARGED
1.003	S103		10.7	SURCHARGED
3.000	S300		33.2	SURCHARGED
4.000	S400		26.1	SURCHARGED
3.001	S301		54.3	SURCHARGED
1.004	S104		30.2	SURCHARGED
5.000	S500		9.3	SURCHARGED
5.001	S501		10.5	SURCHARGED
6.000	S600		4.1	SURCHARGED
6.001	S601		4.8	SURCHARGED
6.002	S602		11.0	SURCHARGED
5.002	S502		26.7	SURCHARGED
5.003	S503		26.1	SURCHARGED
7.000	S700		3.6	SURCHARGED
7.001	S701		3.6	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	180 minute 100 year Summer I+45%	32.550	31.946	1.381	0.000	0.42
1.005	S105	180 minute 100 year Summer I+45%	32.380	31.944	1.474	0.000	0.09
8.000	S800	180 minute 100 year Summer I+45%	32.400	31.943	0.468	0.000	0.23
1.006	S106	180 minute 100 year Summer I+45%	32.380	31.939	1.779	0.000	1.03
1.007	FW105	180 minute 100 year Summer I+45%	32.380	30.036	-0.099	0.000	0.25

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		32.5	SURCHARGED
1.005	S105		10.1	SURCHARGED
8.000	S800		16.3	SURCHARGED
1.006	S106		11.2	SURCHARGED
1.007	FW105		11.2	OK

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Summary Wizard of 240 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 100 year Summer I+45%	32.600	32.106	0.706	0.000	0.09
1.001	S101	240 minute 100 year Summer I+45%	32.400	32.105	0.895	0.000	0.15
1.002	S102	240 minute 100 year Summer I+45%	32.600	32.104	1.129	0.000	0.17
2.000	S200	240 minute 100 year Summer I+45%	32.600	32.108	0.708	0.000	0.33
2.001	S201	240 minute 100 year Summer I+45%	32.500	32.105	1.075	0.000	0.20
1.003	S103	240 minute 100 year Summer I+45%	32.380	32.102	0.501	0.000	0.00
3.000	S300	240 minute 100 year Summer I+45%	32.600	32.110	0.560	0.000	0.25
4.000	S400	240 minute 100 year Summer I+45%	32.600	32.111	0.636	0.000	0.34
3.001	S301	240 minute 100 year Summer I+45%	32.600	32.105	1.260	0.000	0.26
1.004	S104	240 minute 100 year Summer I+45%	32.380	32.103	0.682	0.000	0.00
5.000	S500	240 minute 100 year Summer I+45%	32.600	32.113	0.713	0.000	0.40
5.001	S501	240 minute 100 year Summer I+45%	32.600	32.108	1.203	0.000	0.18
6.000	S600	240 minute 100 year Summer I+45%	32.600	32.110	0.710	0.000	0.13
6.001	S601	240 minute 100 year Summer I+45%	32.600	32.109	0.894	0.000	0.16
6.002	S602	240 minute 100 year Summer I+45%	32.600	32.108	1.053	0.000	0.17
5.002	S502	240 minute 100 year Summer I+45%	32.600	32.106	1.396	0.000	0.34
5.003	S503	240 minute 100 year Summer I+45%	32.500	32.106	1.446	0.000	0.27
7.000	S700	240 minute 100 year Summer I+45%	32.600	32.106	0.706	0.000	0.17
7.001	S701	240 minute 100 year Summer I+45%	32.600	32.105	0.805	0.000	0.06

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Summary Wizard of 240 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.7	SURCHARGED
1.001	S101		7.6	FLOOD RISK
1.002	S102		8.5	SURCHARGED
2.000	S200		6.3	SURCHARGED
2.001	S201		11.5	SURCHARGED
1.003	S103		8.9	FLOOD RISK
3.000	S300		27.2	SURCHARGED
4.000	S400		21.3	SURCHARGED
3.001	S301		44.4	SURCHARGED
1.004	S104		24.7	FLOOD RISK
5.000	S500		7.6	SURCHARGED
5.001	S501		8.7	SURCHARGED
6.000	S600		3.4	SURCHARGED
6.001	S601		4.0	SURCHARGED
6.002	S602		9.3	SURCHARGED
5.002	S502		21.1	SURCHARGED
5.003	S503		20.7	SURCHARGED
7.000	S700		3.0	SURCHARGED
7.001	S701		3.0	SURCHARGED

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Summary Wizard of 240 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 100 year Summer I+45%	32.550	32.104	1.539	0.000	0.34
1.005	S105	240 minute 100 year Summer I+45%	32.380	32.103	1.633	0.000	0.09
8.000	S800	240 minute 100 year Summer I+45%	32.400	32.100	0.625	0.000	0.19
1.006	S106	240 minute 100 year Summer I+45%	32.380	32.097	1.937	0.000	1.07
1.007	FW105	240 minute 100 year Summer I+45%	32.380	30.037	-0.098	0.000	0.26

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		26.0	SURCHARGED
1.005	S105		10.5	FLOOD RISK
8.000	S800		13.3	FLOOD RISK
1.006	S106		11.7	FLOOD RISK
1.007	FW105		11.7	OK

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Summary Wizard of 360 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 100 year Summer I+45%	32.600	32.083	0.683	0.000	0.07
1.001	S101	360 minute 100 year Summer I+45%	32.400	32.082	0.872	0.000	0.11
1.002	S102	360 minute 100 year Summer I+45%	32.600	32.081	1.106	0.000	0.12
2.000	S200	360 minute 100 year Summer I+45%	32.600	32.085	0.685	0.000	0.25
2.001	S201	360 minute 100 year Summer I+45%	32.500	32.081	1.051	0.000	0.15
1.003	S103	360 minute 100 year Summer I+45%	32.380	32.079	0.478	0.000	0.00
3.000	S300	360 minute 100 year Summer I+45%	32.600	32.086	0.536	0.000	0.18
4.000	S400	360 minute 100 year Summer I+45%	32.600	32.088	0.613	0.000	0.25
3.001	S301	360 minute 100 year Summer I+45%	32.600	32.082	1.237	0.000	0.19
1.004	S104	360 minute 100 year Summer I+45%	32.380	32.079	0.658	0.000	0.00
5.000	S500	360 minute 100 year Summer I+45%	32.600	32.090	0.690	0.000	0.30
5.001	S501	360 minute 100 year Summer I+45%	32.600	32.085	1.180	0.000	0.14
6.000	S600	360 minute 100 year Summer I+45%	32.600	32.087	0.687	0.000	0.10
6.001	S601	360 minute 100 year Summer I+45%	32.600	32.086	0.871	0.000	0.12
6.002	S602	360 minute 100 year Summer I+45%	32.600	32.085	1.030	0.000	0.13
5.002	S502	360 minute 100 year Summer I+45%	32.600	32.083	1.373	0.000	0.27
5.003	S503	360 minute 100 year Summer I+45%	32.500	32.082	1.422	0.000	0.21
7.000	S700	360 minute 100 year Summer I+45%	32.600	32.083	0.683	0.000	0.13
7.001	S701	360 minute 100 year Summer I+45%	32.600	32.082	0.782	0.000	0.05

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.3	SURCHARGED
1.001	S101		5.6	SURCHARGED
1.002	S102		6.3	SURCHARGED
2.000	S200		4.7	SURCHARGED
2.001	S201		8.5	SURCHARGED
1.003	S103		7.1	SURCHARGED
3.000	S300		20.2	SURCHARGED
4.000	S400		15.8	SURCHARGED
3.001	S301		32.8	SURCHARGED
1.004	S104		18.9	SURCHARGED
5.000	S500		5.6	SURCHARGED
5.001	S501		6.4	SURCHARGED
6.000	S600		2.5	SURCHARGED
6.001	S601		3.0	SURCHARGED
6.002	S602		7.0	SURCHARGED
5.002	S502		16.3	SURCHARGED
5.003	S503		15.9	SURCHARGED
7.000	S700		2.2	SURCHARGED
7.001	S701		2.2	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 100 year Summer I+45%	32.550	32.081	1.516	0.000	0.26
1.005	S105	360 minute 100 year Summer I+45%	32.380	32.079	1.609	0.000	0.09
8.000	S800	360 minute 100 year Summer I+45%	32.400	32.077	0.602	0.000	0.14
1.006	S106	360 minute 100 year Summer I+45%	32.380	32.073	1.913	0.000	1.07
1.007	FW105	360 minute 100 year Summer I+45%	32.380	30.037	-0.098	0.000	0.26

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		19.9	SURCHARGED
1.005	S105		10.4	SURCHARGED
8.000	S800		9.9	SURCHARGED
1.006	S106		11.6	SURCHARGED
1.007	FW105		11.6	OK

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Summary Wizard of 480 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 100 year Summer I+45%	32.600	31.982	0.582	0.000	0.05
1.001	S101	480 minute 100 year Summer I+45%	32.400	31.982	0.772	0.000	0.09
1.002	S102	480 minute 100 year Summer I+45%	32.600	31.980	1.005	0.000	0.10
2.000	S200	480 minute 100 year Summer I+45%	32.600	31.984	0.584	0.000	0.20
2.001	S201	480 minute 100 year Summer I+45%	32.500	31.981	0.951	0.000	0.12
1.003	S103	480 minute 100 year Summer I+45%	32.380	31.979	0.378	0.000	0.00
3.000	S300	480 minute 100 year Summer I+45%	32.600	31.986	0.436	0.000	0.15
4.000	S400	480 minute 100 year Summer I+45%	32.600	31.987	0.512	0.000	0.20
3.001	S301	480 minute 100 year Summer I+45%	32.600	31.982	1.137	0.000	0.15
1.004	S104	480 minute 100 year Summer I+45%	32.380	31.979	0.558	0.000	0.00
5.000	S500	480 minute 100 year Summer I+45%	32.600	31.989	0.589	0.000	0.24
5.001	S501	480 minute 100 year Summer I+45%	32.600	31.984	1.079	0.000	0.11
6.000	S600	480 minute 100 year Summer I+45%	32.600	31.986	0.586	0.000	0.08
6.001	S601	480 minute 100 year Summer I+45%	32.600	31.985	0.770	0.000	0.10
6.002	S602	480 minute 100 year Summer I+45%	32.600	31.984	0.929	0.000	0.10
5.002	S502	480 minute 100 year Summer I+45%	32.600	31.982	1.272	0.000	0.21
5.003	S503	480 minute 100 year Summer I+45%	32.500	31.982	1.322	0.000	0.17
7.000	S700	480 minute 100 year Summer I+45%	32.600	31.982	0.582	0.000	0.10
7.001	S701	480 minute 100 year Summer I+45%	32.600	31.981	0.681	0.000	0.04

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Summary Wizard of 480 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.0	SURCHARGED
1.001	S101		4.5	SURCHARGED
1.002	S102		5.1	SURCHARGED
2.000	S200		3.8	SURCHARGED
2.001	S201		6.8	SURCHARGED
1.003	S103		5.6	SURCHARGED
3.000	S300		16.2	SURCHARGED
4.000	S400		12.7	SURCHARGED
3.001	S301		26.5	SURCHARGED
1.004	S104		16.0	SURCHARGED
5.000	S500		4.5	SURCHARGED
5.001	S501		5.2	SURCHARGED
6.000	S600		2.0	SURCHARGED
6.001	S601		2.4	SURCHARGED
6.002	S602		5.6	SURCHARGED
5.002	S502		13.1	SURCHARGED
5.003	S503		12.9	SURCHARGED
7.000	S700		1.8	SURCHARGED
7.001	S701		1.8	SURCHARGED

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Summary Wizard of 480 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 100 year Summer I+45%	32.550	31.980	1.415	0.000	0.21
1.005	S105	480 minute 100 year Summer I+45%	32.380	31.979	1.509	0.000	0.09
8.000	S800	480 minute 100 year Summer I+45%	32.400	31.977	0.502	0.000	0.11
1.006	S106	480 minute 100 year Summer I+45%	32.380	31.973	1.813	0.000	1.04
1.007	FW105	480 minute 100 year Summer I+45%	32.380	30.036	-0.099	0.000	0.26

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		16.1	SURCHARGED
1.005	S105		10.2	SURCHARGED
8.000	S800		7.9	SURCHARGED
1.006	S106		11.3	SURCHARGED
1.007	FW105		11.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 100 year Summer I+45%	32.600	31.807	0.407	0.000	0.05
1.001	S101	600 minute 100 year Summer I+45%	32.400	31.807	0.597	0.000	0.07
1.002	S102	600 minute 100 year Summer I+45%	32.600	31.806	0.831	0.000	0.08
2.000	S200	600 minute 100 year Summer I+45%	32.600	31.809	0.409	0.000	0.17
2.001	S201	600 minute 100 year Summer I+45%	32.500	31.806	0.776	0.000	0.10
1.003	S103	600 minute 100 year Summer I+45%	32.380	31.804	0.203	0.000	0.00
3.000	S300	600 minute 100 year Summer I+45%	32.600	31.811	0.261	0.000	0.12
4.000	S400	600 minute 100 year Summer I+45%	32.600	31.812	0.337	0.000	0.17
3.001	S301	600 minute 100 year Summer I+45%	32.600	31.807	0.962	0.000	0.13
1.004	S104	600 minute 100 year Summer I+45%	32.380	31.804	0.383	0.000	0.00
5.000	S500	600 minute 100 year Summer I+45%	32.600	31.814	0.414	0.000	0.20
5.001	S501	600 minute 100 year Summer I+45%	32.600	31.809	0.904	0.000	0.09
6.000	S600	600 minute 100 year Summer I+45%	32.600	31.811	0.411	0.000	0.06
6.001	S601	600 minute 100 year Summer I+45%	32.600	31.810	0.595	0.000	0.08
6.002	S602	600 minute 100 year Summer I+45%	32.600	31.810	0.755	0.000	0.09
5.002	S502	600 minute 100 year Summer I+45%	32.600	31.808	1.098	0.000	0.18
5.003	S503	600 minute 100 year Summer I+45%	32.500	31.807	1.147	0.000	0.14
7.000	S700	600 minute 100 year Summer I+45%	32.600	31.807	0.407	0.000	0.09
7.001	S701	600 minute 100 year Summer I+45%	32.600	31.806	0.506	0.000	0.03

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.8	SURCHARGED
1.001	S101		3.8	SURCHARGED
1.002	S102		4.3	SURCHARGED
2.000	S200		3.2	SURCHARGED
2.001	S201		5.8	SURCHARGED
1.003	S103		5.0	SURCHARGED
3.000	S300		13.7	SURCHARGED
4.000	S400		10.7	SURCHARGED
3.001	S301		22.4	SURCHARGED
1.004	S104		14.1	SURCHARGED
5.000	S500		3.8	SURCHARGED
5.001	S501		4.4	SURCHARGED
6.000	S600		1.7	SURCHARGED
6.001	S601		2.0	SURCHARGED
6.002	S602		4.8	SURCHARGED
5.002	S502		11.1	SURCHARGED
5.003	S503		10.9	SURCHARGED
7.000	S700		1.5	SURCHARGED
7.001	S701		1.5	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 100 year Summer I+45%	32.550	31.806	1.241	0.000	0.18
1.005	S105	600 minute 100 year Summer I+45%	32.380	31.804	1.334	0.000	0.09
8.000	S800	600 minute 100 year Summer I+45%	32.400	31.802	0.327	0.000	0.09
1.006	S106	600 minute 100 year Summer I+45%	32.380	31.799	1.639	0.000	1.00
1.007	FW105	600 minute 100 year Summer I+45%	32.380	30.035	-0.100	0.000	0.25

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		13.6	SURCHARGED
1.005	S105		9.7	SURCHARGED
8.000	S800		6.7	SURCHARGED
1.006	S106		10.8	SURCHARGED
1.007	FW105		10.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 100 year Summer I+45%	32.600	31.630	0.230	0.000	0.04
1.001	S101	720 minute 100 year Summer I+45%	32.400	31.629	0.419	0.000	0.06
1.002	S102	720 minute 100 year Summer I+45%	32.600	31.628	0.653	0.000	0.07
2.000	S200	720 minute 100 year Summer I+45%	32.600	31.632	0.232	0.000	0.14
2.001	S201	720 minute 100 year Summer I+45%	32.500	31.629	0.599	0.000	0.09
1.003	S103	720 minute 100 year Summer I+45%	32.380	31.627	0.026	0.000	0.00
3.000	S300	720 minute 100 year Summer I+45%	32.600	31.633	0.083	0.000	0.11
4.000	S400	720 minute 100 year Summer I+45%	32.600	31.634	0.159	0.000	0.15
3.001	S301	720 minute 100 year Summer I+45%	32.600	31.629	0.784	0.000	0.11
1.004	S104	720 minute 100 year Summer I+45%	32.380	31.627	0.206	0.000	0.00
5.000	S500	720 minute 100 year Summer I+45%	32.600	31.636	0.236	0.000	0.18
5.001	S501	720 minute 100 year Summer I+45%	32.600	31.632	0.727	0.000	0.08
6.000	S600	720 minute 100 year Summer I+45%	32.600	31.633	0.233	0.000	0.06
6.001	S601	720 minute 100 year Summer I+45%	32.600	31.633	0.418	0.000	0.07
6.002	S602	720 minute 100 year Summer I+45%	32.600	31.632	0.577	0.000	0.08
5.002	S502	720 minute 100 year Summer I+45%	32.600	31.630	0.920	0.000	0.16
5.003	S503	720 minute 100 year Summer I+45%	32.500	31.629	0.969	0.000	0.12
7.000	S700	720 minute 100 year Summer I+45%	32.600	31.630	0.230	0.000	0.07
7.001	S701	720 minute 100 year Summer I+45%	32.600	31.629	0.329	0.000	0.03

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Summary Wizard of 720 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.7	SURCHARGED
1.001	S101		3.3	SURCHARGED
1.002	S102		3.7	SURCHARGED
2.000	S200		2.8	SURCHARGED
2.001	S201		5.1	SURCHARGED
1.003	S103		4.6	SURCHARGED
3.000	S300		11.9	SURCHARGED
4.000	S400		9.3	SURCHARGED
3.001	S301		19.5	SURCHARGED
1.004	S104		12.8	SURCHARGED
5.000	S500		3.3	SURCHARGED
5.001	S501		3.8	SURCHARGED
6.000	S600		1.5	SURCHARGED
6.001	S601		1.7	SURCHARGED
6.002	S602		4.2	SURCHARGED
5.002	S502		9.6	SURCHARGED
5.003	S503		9.5	SURCHARGED
7.000	S700		1.3	SURCHARGED
7.001	S701		1.3	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 100 year Summer I+45%	32.550	31.628	1.063	0.000	0.15
1.005	S105	720 minute 100 year Summer I+45%	32.380	31.627	1.157	0.000	0.08
8.000	S800	720 minute 100 year Summer I+45%	32.400	31.625	0.150	0.000	0.08
1.006	S106	720 minute 100 year Summer I+45%	32.380	31.622	1.462	0.000	0.95
1.007	FW105	720 minute 100 year Summer I+45%	32.380	30.034	-0.101	0.000	0.23

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		11.8	SURCHARGED
1.005	S105		9.3	SURCHARGED
8.000	S800		5.8	SURCHARGED
1.006	S106		10.3	SURCHARGED
1.007	FW105		10.3	OK

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Summary Wizard of 960 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 100 year Summer I+45%	32.600	31.459	0.059	0.000	0.03
1.001	S101	960 minute 100 year Summer I+45%	32.400	31.458	0.248	0.000	0.05
1.002	S102	960 minute 100 year Summer I+45%	32.600	31.457	0.482	0.000	0.06
2.000	S200	960 minute 100 year Summer I+45%	32.600	31.461	0.061	0.000	0.12
2.001	S201	960 minute 100 year Summer I+45%	32.500	31.458	0.428	0.000	0.07
1.003	S103	960 minute 100 year Summer I+45%	32.380	31.456	-0.145	0.000	0.00
3.000	S300	960 minute 100 year Summer I+45%	32.600	31.461	-0.089	0.000	0.09
4.000	S400	960 minute 100 year Summer I+45%	32.600	31.462	-0.013	0.000	0.12
3.001	S301	960 minute 100 year Summer I+45%	32.600	31.457	0.612	0.000	0.09
1.004	S104	960 minute 100 year Summer I+45%	32.380	31.455	0.034	0.000	0.00
5.000	S500	960 minute 100 year Summer I+45%	32.600	31.464	0.064	0.000	0.14
5.001	S501	960 minute 100 year Summer I+45%	32.600	31.459	0.554	0.000	0.07
6.000	S600	960 minute 100 year Summer I+45%	32.600	31.461	0.061	0.000	0.05
6.001	S601	960 minute 100 year Summer I+45%	32.600	31.460	0.245	0.000	0.06
6.002	S602	960 minute 100 year Summer I+45%	32.600	31.460	0.405	0.000	0.06
5.002	S502	960 minute 100 year Summer I+45%	32.600	31.458	0.748	0.000	0.13
5.003	S503	960 minute 100 year Summer I+45%	32.500	31.457	0.797	0.000	0.10
7.000	S700	960 minute 100 year Summer I+45%	32.600	31.458	0.058	0.000	0.06
7.001	S701	960 minute 100 year Summer I+45%	32.600	31.457	0.157	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	SURCHARGED
1.001	S101		2.7	SURCHARGED
1.002	S102		3.0	SURCHARGED
2.000	S200		2.2	SURCHARGED
2.001	S201		4.1	SURCHARGED
1.003	S103		4.3	OK
3.000	S300		9.5	OK
4.000	S400		7.4	OK
3.001	S301		15.6	SURCHARGED
1.004	S104		11.1	SURCHARGED
5.000	S500		2.7	SURCHARGED
5.001	S501		3.1	SURCHARGED
6.000	S600		1.2	SURCHARGED
6.001	S601		1.4	SURCHARGED
6.002	S602		3.3	SURCHARGED
5.002	S502		7.7	SURCHARGED
5.003	S503		7.6	SURCHARGED
7.000	S700		1.0	SURCHARGED
7.001	S701		1.0	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 100 year Summer I+45%	32.550	31.456	0.891	0.000	0.12
1.005	S105	960 minute 100 year Summer I+45%	32.380	31.455	0.985	0.000	0.08
8.000	S800	960 minute 100 year Summer I+45%	32.400	31.456	-0.019	0.000	0.07
1.006	S106	960 minute 100 year Summer I+45%	32.380	31.455	1.295	0.000	0.90
1.007	FW105	960 minute 100 year Summer I+45%	32.380	30.033	-0.102	0.000	0.22

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		9.5	SURCHARGED
1.005	S105		9.4	SURCHARGED
8.000	S800		4.6	OK
1.006	S106		9.8	SURCHARGED
1.007	FW105		9.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 100 year Summer I+45%	32.600	31.310	-0.090	0.000	0.02
1.001	S101	1440 minute 100 year Summer I+45%	32.400	31.310	0.100	0.000	0.04
1.002	S102	1440 minute 100 year Summer I+45%	32.600	31.309	0.334	0.000	0.05
2.000	S200	1440 minute 100 year Summer I+45%	32.600	31.312	-0.088	0.000	0.08
2.001	S201	1440 minute 100 year Summer I+45%	32.500	31.309	0.279	0.000	0.05
1.003	S103	1440 minute 100 year Summer I+45%	32.380	31.307	-0.294	0.000	0.00
3.000	S300	1440 minute 100 year Summer I+45%	32.600	31.313	-0.237	0.000	0.06
4.000	S400	1440 minute 100 year Summer I+45%	32.600	31.314	-0.161	0.000	0.09
3.001	S301	1440 minute 100 year Summer I+45%	32.600	31.309	0.464	0.000	0.07
1.004	S104	1440 minute 100 year Summer I+45%	32.380	31.307	-0.114	0.000	0.00
5.000	S500	1440 minute 100 year Summer I+45%	32.600	31.312	-0.088	0.000	0.10
5.001	S501	1440 minute 100 year Summer I+45%	32.600	31.307	0.402	0.000	0.05
6.000	S600	1440 minute 100 year Summer I+45%	32.600	31.309	-0.091	0.000	0.03
6.001	S601	1440 minute 100 year Summer I+45%	32.600	31.308	0.093	0.000	0.04
6.002	S602	1440 minute 100 year Summer I+45%	32.600	31.308	0.253	0.000	0.05
5.002	S502	1440 minute 100 year Summer I+45%	32.600	31.306	0.596	0.000	0.09
5.003	S503	1440 minute 100 year Summer I+45%	32.500	31.305	0.645	0.000	0.07
7.000	S700	1440 minute 100 year Summer I+45%	32.600	31.306	-0.094	0.000	0.04
7.001	S701	1440 minute 100 year Summer I+45%	32.600	31.305	0.005	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.9	SURCHARGED
1.002	S102		2.3	SURCHARGED
2.000	S200		1.6	OK
2.001	S201		3.1	SURCHARGED
1.003	S103		3.6	OK
3.000	S300		6.9	OK
4.000	S400		5.4	OK
3.001	S301		12.4	SURCHARGED
1.004	S104		9.5	OK
5.000	S500		1.9	OK
5.001	S501		2.3	SURCHARGED
6.000	S600		0.9	OK
6.001	S601		1.0	SURCHARGED
6.002	S602		2.5	SURCHARGED
5.002	S502		5.7	SURCHARGED
5.003	S503		5.6	SURCHARGED
7.000	S700		0.8	OK
7.001	S701		0.8	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 100 year Summer I+45%	32.550	31.304	0.739	0.000	0.09
1.005	S105	1440 minute 100 year Summer I+45%	32.380	31.303	0.833	0.000	0.07
8.000	S800	1440 minute 100 year Summer I+45%	32.400	31.301	-0.174	0.000	0.05
1.006	S106	1440 minute 100 year Summer I+45%	32.380	31.298	1.138	0.000	0.85
1.007	FW105	1440 minute 100 year Summer I+45%	32.380	30.031	-0.104	0.000	0.21

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.0	SURCHARGED
1.005	S105		8.5	SURCHARGED
8.000	S800		3.4	OK
1.006	S106		9.3	SURCHARGED
1.007	FW105		9.3	OK

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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	0.000
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	2
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	0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	15 minute 1 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06	
1.001	S101	15 minute 1 year Winter I+0%	32.400	31.030	-0.180	0.000	0.09	
1.002	S102	15 minute 1 year Winter I+0%	32.600	30.800	-0.175	0.000	0.11	
2.000	S200	15 minute 1 year Winter I+0%	32.600	31.298	-0.102	0.000	0.22	
2.001	S201	15 minute 1 year Winter I+0%	32.500	30.860	-0.170	0.000	0.14	
1.003	S103	15 minute 1 year Winter I+0%	32.380	30.419	-1.182	0.000	0.01	
3.000	S300	15 minute 1 year Winter I+0%	32.600	31.333	-0.217	0.000	0.17	
4.000	S400	15 minute 1 year Winter I+0%	32.600	31.324	-0.151	0.000	0.23	
3.001	S301	15 minute 1 year Winter I+0%	32.600	30.581	-0.264	0.000	0.19	
1.004	S104	15 minute 1 year Winter I+0%	32.380	30.359	-1.062	0.000	0.01	
5.000	S500	15 minute 1 year Winter I+0%	32.600	31.304	-0.096	0.000	0.27	
5.001	S501	15 minute 1 year Winter I+0%	32.600	30.735	-0.170	0.000	0.14	
6.000	S600	15 minute 1 year Winter I+0%	32.600	31.280	-0.120	0.000	0.09	
6.001	S601	15 minute 1 year Winter I+0%	32.600	31.098	-0.117	0.000	0.11	
6.002	S602	15 minute 1 year Winter I+0%	32.600	30.880	-0.175	0.000	0.11	
5.002	S502	15 minute 1 year Winter I+0%	32.600	30.510	-0.200	0.000	0.24	
5.003	S503	15 minute 1 year Winter I+0%	32.500	30.449	-0.211	0.000	0.19	
7.000	S700	15 minute 1 year Winter I+0%	32.600	31.284	-0.116	0.000	0.12	
7.001	S701	15 minute 1 year Winter I+0%	32.600	31.170	-0.130	0.000	0.04	

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

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.1	OK
1.001	S101	4.5	OK
1.002	S102	5.6	OK
2.000	S200	4.2	OK
2.001	S201	7.7	OK
1.003	S103	21.9	OK
3.000	S300	18.2	OK
4.000	S400	14.3	OK
3.001	S301	32.7	OK
1.004	S104	43.8	OK
5.000	S500	5.2	OK
5.001	S501	6.4	OK
6.000	S600	2.3	OK
6.001	S601	2.6	OK
6.002	S602	5.9	OK
5.002	S502	14.8	OK
5.003	S503	14.8	OK
7.000	S700	2.0	OK
7.001	S701	2.0	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	15 minute 1 year Winter I+0%	32.550	30.364	-0.201	0.000	0.24	
1.005	S105	15 minute 1 year Winter I+0%	32.380	30.359	-0.111	0.000	0.04	
8.000	S800	15 minute 1 year Winter I+0%	32.400	31.303	-0.172	0.000	0.12	
1.006	S106	15 minute 1 year Winter I+0%	32.380	30.356	0.196	0.000	0.46	
1.007	FW105	15 minute 1 year Winter I+0%	32.380	30.018	-0.117	0.000	0.11	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	18.4	OK
1.005	S105	4.9	OK
8.000	S800	8.9	OK
1.006	S106	5.0	SURCHARGED
1.007	FW105	5.0	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	30 minute 1 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05	
1.001	S101	30 minute 1 year Winter I+0%	32.400	31.025	-0.185	0.000	0.07	
1.002	S102	30 minute 1 year Winter I+0%	32.600	30.796	-0.179	0.000	0.09	
2.000	S200	30 minute 1 year Winter I+0%	32.600	31.292	-0.108	0.000	0.18	
2.001	S201	30 minute 1 year Winter I+0%	32.500	30.855	-0.175	0.000	0.11	
1.003	S103	30 minute 1 year Winter I+0%	32.380	30.416	-1.185	0.000	0.00	
3.000	S300	30 minute 1 year Winter I+0%	32.600	31.322	-0.228	0.000	0.13	
4.000	S400	30 minute 1 year Winter I+0%	32.600	31.315	-0.160	0.000	0.18	
3.001	S301	30 minute 1 year Winter I+0%	32.600	30.567	-0.278	0.000	0.15	
1.004	S104	30 minute 1 year Winter I+0%	32.380	30.397	-1.024	0.000	0.01	
5.000	S500	30 minute 1 year Winter I+0%	32.600	31.297	-0.103	0.000	0.22	
5.001	S501	30 minute 1 year Winter I+0%	32.600	30.729	-0.176	0.000	0.11	
6.000	S600	30 minute 1 year Winter I+0%	32.600	31.276	-0.124	0.000	0.07	
6.001	S601	30 minute 1 year Winter I+0%	32.600	31.094	-0.121	0.000	0.08	
6.002	S602	30 minute 1 year Winter I+0%	32.600	30.876	-0.179	0.000	0.09	
5.002	S502	30 minute 1 year Winter I+0%	32.600	30.501	-0.209	0.000	0.20	
5.003	S503	30 minute 1 year Winter I+0%	32.500	30.440	-0.220	0.000	0.16	
7.000	S700	30 minute 1 year Winter I+0%	32.600	31.280	-0.120	0.000	0.09	
7.001	S701	30 minute 1 year Winter I+0%	32.600	31.168	-0.132	0.000	0.03	

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Summary Wizard of 30 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	0.9	OK
1.001	S101	3.8	OK
1.002	S102	4.8	OK
2.000	S200	3.4	OK
2.001	S201	6.3	OK
1.003	S103	17.0	OK
3.000	S300	14.6	OK
4.000	S400	11.4	OK
3.001	S301	26.0	OK
1.004	S104	31.5	OK
5.000	S500	4.1	OK
5.001	S501	5.1	OK
6.000	S600	1.8	OK
6.001	S601	2.1	OK
6.002	S602	4.9	OK
5.002	S502	12.2	OK
5.003	S503	12.3	OK
7.000	S700	1.6	OK
7.001	S701	1.6	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
5.004	S504	30 minute 1 year Winter I+0%	32.550	30.397	-0.168	0.000	0.20	
1.005	S105	30 minute 1 year Winter I+0%	32.380	30.397	-0.073	0.000	0.04	
8.000	S800	30 minute 1 year Winter I+0%	32.400	31.297	-0.178	0.000	0.10	
1.006	S106	30 minute 1 year Winter I+0%	32.380	30.394	0.234	0.000	0.48	
1.007	FW105	30 minute 1 year Winter I+0%	32.380	30.019	-0.116	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	15.3	OK
1.005	S105	5.1	OK
8.000	S800	7.1	OK
1.006	S106	5.2	SURCHARGED
1.007	FW105	5.2	OK

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

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	60 minute 1 year Winter I+0%	32.600	31.268	-0.132	0.000	0.03	
1.001	S101	60 minute 1 year Winter I+0%	32.400	31.018	-0.192	0.000	0.05	
1.002	S102	60 minute 1 year Winter I+0%	32.600	30.788	-0.187	0.000	0.07	
2.000	S200	60 minute 1 year Winter I+0%	32.600	31.285	-0.115	0.000	0.12	
2.001	S201	60 minute 1 year Winter I+0%	32.500	30.847	-0.183	0.000	0.08	
1.003	S103	60 minute 1 year Winter I+0%	32.380	30.427	-1.174	0.000	0.00	
3.000	S300	60 minute 1 year Winter I+0%	32.600	31.311	-0.239	0.000	0.09	
4.000	S400	60 minute 1 year Winter I+0%	32.600	31.303	-0.172	0.000	0.13	
3.001	S301	60 minute 1 year Winter I+0%	32.600	30.550	-0.295	0.000	0.10	
1.004	S104	60 minute 1 year Winter I+0%	32.380	30.427	-0.994	0.000	0.00	
5.000	S500	60 minute 1 year Winter I+0%	32.600	31.288	-0.112	0.000	0.15	
5.001	S501	60 minute 1 year Winter I+0%	32.600	30.720	-0.185	0.000	0.07	
6.000	S600	60 minute 1 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05	
6.001	S601	60 minute 1 year Winter I+0%	32.600	31.088	-0.127	0.000	0.06	
6.002	S602	60 minute 1 year Winter I+0%	32.600	30.867	-0.188	0.000	0.06	
5.002	S502	60 minute 1 year Winter I+0%	32.600	30.484	-0.226	0.000	0.14	
5.003	S503	60 minute 1 year Winter I+0%	32.500	30.428	-0.232	0.000	0.11	
7.000	S700	60 minute 1 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06	
7.001	S701	60 minute 1 year Winter I+0%	32.600	31.166	-0.134	0.000	0.02	

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

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	0.6	OK
1.001	S101	2.7	OK
1.002	S102	3.4	OK
2.000	S200	2.3	OK
2.001	S201	4.4	OK
1.003	S103	11.5	OK
3.000	S300	10.0	OK
4.000	S400	7.8	OK
3.001	S301	17.8	OK
1.004	S104	20.9	OK
5.000	S500	2.8	OK
5.001	S501	3.5	OK
6.000	S600	1.2	OK
6.001	S601	1.5	OK
6.002	S602	3.5	OK
5.002	S502	8.6	OK
5.003	S503	8.6	OK
7.000	S700	1.1	OK
7.001	S701	1.1	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	60 minute 1 year Winter I+0%	32.550	30.428	-0.137	0.000	0.14	
1.005	S105	60 minute 1 year Winter I+0%	32.380	30.427	-0.043	0.000	0.05	
8.000	S800	60 minute 1 year Winter I+0%	32.400	31.288	-0.187	0.000	0.07	
1.006	S106	60 minute 1 year Winter I+0%	32.380	30.423	0.263	0.000	0.50	
1.007	FW105	60 minute 1 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	10.6	OK
1.005	S105	5.3	OK
8.000	S800	4.9	OK
1.006	S106	5.4	SURCHARGED
1.007	FW105	5.4	OK

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

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 1 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
1.001	S101	120 minute 1 year Winter I+0%	32.400	31.012	-0.198	0.000	0.03
1.002	S102	120 minute 1 year Winter I+0%	32.600	30.780	-0.195	0.000	0.04
2.000	S200	120 minute 1 year Winter I+0%	32.600	31.278	-0.122	0.000	0.08
2.001	S201	120 minute 1 year Winter I+0%	32.500	30.838	-0.192	0.000	0.05
1.003	S103	120 minute 1 year Winter I+0%	32.380	30.440	-1.161	0.000	0.00
3.000	S300	120 minute 1 year Winter I+0%	32.600	31.297	-0.253	0.000	0.06
4.000	S400	120 minute 1 year Winter I+0%	32.600	31.293	-0.182	0.000	0.08
3.001	S301	120 minute 1 year Winter I+0%	32.600	30.533	-0.312	0.000	0.07
1.004	S104	120 minute 1 year Winter I+0%	32.380	30.440	-0.981	0.000	0.00
5.000	S500	120 minute 1 year Winter I+0%	32.600	31.281	-0.119	0.000	0.10
5.001	S501	120 minute 1 year Winter I+0%	32.600	30.712	-0.193	0.000	0.05
6.000	S600	120 minute 1 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
6.001	S601	120 minute 1 year Winter I+0%	32.600	31.084	-0.131	0.000	0.04
6.002	S602	120 minute 1 year Winter I+0%	32.600	30.860	-0.195	0.000	0.04
5.002	S502	120 minute 1 year Winter I+0%	32.600	30.471	-0.239	0.000	0.09
5.003	S503	120 minute 1 year Winter I+0%	32.500	30.442	-0.218	0.000	0.07
7.000	S700	120 minute 1 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
7.001	S701	120 minute 1 year Winter I+0%	32.600	31.161	-0.139	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.8	OK
1.002	S102		2.2	OK
2.000	S200		1.5	OK
2.001	S201		2.9	OK
1.003	S103		7.3	OK
3.000	S300		6.5	OK
4.000	S400		5.1	OK
3.001	S301		11.5	OK
1.004	S104		13.3	OK
5.000	S500		1.8	OK
5.001	S501		2.3	OK
6.000	S600		0.8	OK
6.001	S601		0.9	OK
6.002	S602		2.3	OK
5.002	S502		5.6	OK
5.003	S503		5.6	OK
7.000	S700		0.7	OK
7.001	S701		0.7	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 1 year Winter I+0%	32.550	30.441	-0.124	0.000	0.09
1.005	S105	120 minute 1 year Winter I+0%	32.380	30.440	-0.030	0.000	0.05
8.000	S800	120 minute 1 year Winter I+0%	32.400	31.280	-0.195	0.000	0.04
1.006	S106	120 minute 1 year Winter I+0%	32.380	30.435	0.275	0.000	0.51
1.007	FW105	120 minute 1 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.9	OK
1.005	S105		5.4	OK
8.000	S800		3.2	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 1 year Winter I+0%	32.600	31.262	-0.138	0.000	0.02
1.001	S101	180 minute 1 year Winter I+0%	32.400	31.009	-0.201	0.000	0.03
1.002	S102	180 minute 1 year Winter I+0%	32.600	30.777	-0.198	0.000	0.03
2.000	S200	180 minute 1 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06
2.001	S201	180 minute 1 year Winter I+0%	32.500	30.834	-0.196	0.000	0.04
1.003	S103	180 minute 1 year Winter I+0%	32.380	30.441	-1.160	0.000	0.00
3.000	S300	180 minute 1 year Winter I+0%	32.600	31.291	-0.259	0.000	0.05
4.000	S400	180 minute 1 year Winter I+0%	32.600	31.286	-0.189	0.000	0.06
3.001	S301	180 minute 1 year Winter I+0%	32.600	30.524	-0.321	0.000	0.05
1.004	S104	180 minute 1 year Winter I+0%	32.380	30.441	-0.980	0.000	0.00
5.000	S500	180 minute 1 year Winter I+0%	32.600	31.277	-0.123	0.000	0.07
5.001	S501	180 minute 1 year Winter I+0%	32.600	30.708	-0.197	0.000	0.04
6.000	S600	180 minute 1 year Winter I+0%	32.600	31.266	-0.134	0.000	0.02
6.001	S601	180 minute 1 year Winter I+0%	32.600	31.082	-0.133	0.000	0.03
6.002	S602	180 minute 1 year Winter I+0%	32.600	30.856	-0.199	0.000	0.03
5.002	S502	180 minute 1 year Winter I+0%	32.600	30.462	-0.248	0.000	0.07
5.003	S503	180 minute 1 year Winter I+0%	32.500	30.443	-0.217	0.000	0.06
7.000	S700	180 minute 1 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	180 minute 1 year Winter I+0%	32.600	31.158	-0.142	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.4	OK
1.002	S102		1.7	OK
2.000	S200		1.1	OK
2.001	S201		2.2	OK
1.003	S103		5.7	OK
3.000	S300		4.9	OK
4.000	S400		3.9	OK
3.001	S301		8.8	OK
1.004	S104		10.4	OK
5.000	S500		1.4	OK
5.001	S501		1.8	OK
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.8	OK
5.002	S502		4.3	OK
5.003	S503		4.3	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 1 year Winter I+0%	32.550	30.442	-0.123	0.000	0.07
1.005	S105	180 minute 1 year Winter I+0%	32.380	30.441	-0.029	0.000	0.05
8.000	S800	180 minute 1 year Winter I+0%	32.400	31.277	-0.198	0.000	0.03
1.006	S106	180 minute 1 year Winter I+0%	32.380	30.436	0.276	0.000	0.51
1.007	FW105	180 minute 1 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.3	OK
1.005	S105		5.3	OK
8.000	S800		2.4	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 1 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
1.001	S101	240 minute 1 year Winter I+0%	32.400	31.008	-0.202	0.000	0.02
1.002	S102	240 minute 1 year Winter I+0%	32.600	30.775	-0.200	0.000	0.03
2.000	S200	240 minute 1 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
2.001	S201	240 minute 1 year Winter I+0%	32.500	30.831	-0.199	0.000	0.03
1.003	S103	240 minute 1 year Winter I+0%	32.380	30.438	-1.163	0.000	0.00
3.000	S300	240 minute 1 year Winter I+0%	32.600	31.287	-0.263	0.000	0.04
4.000	S400	240 minute 1 year Winter I+0%	32.600	31.283	-0.192	0.000	0.05
3.001	S301	240 minute 1 year Winter I+0%	32.600	30.519	-0.326	0.000	0.04
1.004	S104	240 minute 1 year Winter I+0%	32.380	30.438	-0.983	0.000	0.00
5.000	S500	240 minute 1 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06
5.001	S501	240 minute 1 year Winter I+0%	32.600	30.706	-0.199	0.000	0.03
6.000	S600	240 minute 1 year Winter I+0%	32.600	31.264	-0.136	0.000	0.02
6.001	S601	240 minute 1 year Winter I+0%	32.600	31.081	-0.134	0.000	0.02
6.002	S602	240 minute 1 year Winter I+0%	32.600	30.854	-0.201	0.000	0.03
5.002	S502	240 minute 1 year Winter I+0%	32.600	30.456	-0.254	0.000	0.06
5.003	S503	240 minute 1 year Winter I+0%	32.500	30.439	-0.221	0.000	0.05
7.000	S700	240 minute 1 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
7.001	S701	240 minute 1 year Winter I+0%	32.600	31.157	-0.143	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.1	OK
1.002	S102		1.4	OK
2.000	S200		0.9	OK
2.001	S201		1.8	OK
1.003	S103		4.8	OK
3.000	S300		4.1	OK
4.000	S400		3.2	OK
3.001	S301		7.3	OK
1.004	S104		8.9	OK
5.000	S500		1.1	OK
5.001	S501		1.5	OK
6.000	S600		0.5	OK
6.001	S601		0.6	OK
6.002	S602		1.5	OK
5.002	S502		3.6	OK
5.003	S503		3.6	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 1 year Winter I+0%	32.550	30.438	-0.127	0.000	0.06
1.005	S105	240 minute 1 year Winter I+0%	32.380	30.438	-0.032	0.000	0.05
8.000	S800	240 minute 1 year Winter I+0%	32.400	31.275	-0.200	0.000	0.03
1.006	S106	240 minute 1 year Winter I+0%	32.380	30.433	0.273	0.000	0.51
1.007	FW105	240 minute 1 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.4	OK
1.005	S105		5.2	OK
8.000	S800		2.0	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 1 year Winter I+0%	32.600	31.257	-0.143	0.000	0.01
1.001	S101	360 minute 1 year Winter I+0%	32.400	31.003	-0.207	0.000	0.02
1.002	S102	360 minute 1 year Winter I+0%	32.600	30.772	-0.203	0.000	0.02
2.000	S200	360 minute 1 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
2.001	S201	360 minute 1 year Winter I+0%	32.500	30.829	-0.201	0.000	0.02
1.003	S103	360 minute 1 year Winter I+0%	32.380	30.426	-1.175	0.000	0.00
3.000	S300	360 minute 1 year Winter I+0%	32.600	31.283	-0.267	0.000	0.03
4.000	S400	360 minute 1 year Winter I+0%	32.600	31.278	-0.197	0.000	0.04
3.001	S301	360 minute 1 year Winter I+0%	32.600	30.514	-0.331	0.000	0.03
1.004	S104	360 minute 1 year Winter I+0%	32.380	30.425	-0.996	0.000	0.00
5.000	S500	360 minute 1 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
5.001	S501	360 minute 1 year Winter I+0%	32.600	30.703	-0.202	0.000	0.02
6.000	S600	360 minute 1 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
6.001	S601	360 minute 1 year Winter I+0%	32.600	31.078	-0.137	0.000	0.02
6.002	S602	360 minute 1 year Winter I+0%	32.600	30.852	-0.203	0.000	0.02
5.002	S502	360 minute 1 year Winter I+0%	32.600	30.450	-0.260	0.000	0.04
5.003	S503	360 minute 1 year Winter I+0%	32.500	30.427	-0.233	0.000	0.04
7.000	S700	360 minute 1 year Winter I+0%	32.600	31.264	-0.136	0.000	0.02
7.001	S701	360 minute 1 year Winter I+0%	32.600	31.155	-0.145	0.000	0.01

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Summary Wizard of 360 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.9	OK
1.002	S102		1.1	OK
2.000	S200		0.7	OK
2.001	S201		1.4	OK
1.003	S103		3.9	OK
3.000	S300		3.1	OK
4.000	S400		2.4	OK
3.001	S301		5.5	OK
1.004	S104		7.1	OK
5.000	S500		0.9	OK
5.001	S501		1.1	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.1	OK
5.002	S502		2.7	OK
5.003	S503		2.7	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 1 year Winter I+0%	32.550	30.426	-0.139	0.000	0.04
1.005	S105	360 minute 1 year Winter I+0%	32.380	30.425	-0.045	0.000	0.04
8.000	S800	360 minute 1 year Winter I+0%	32.400	31.273	-0.202	0.000	0.02
1.006	S106	360 minute 1 year Winter I+0%	32.380	30.422	0.262	0.000	0.50
1.007	FW105	360 minute 1 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.3	OK
1.005	S105		5.0	OK
8.000	S800		1.5	OK
1.006	S106		5.4	SURCHARGED
1.007	FW105		5.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 1 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
1.001	S101	480 minute 1 year Winter I+0%	32.400	30.999	-0.211	0.000	0.01
1.002	S102	480 minute 1 year Winter I+0%	32.600	30.768	-0.207	0.000	0.02
2.000	S200	480 minute 1 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
2.001	S201	480 minute 1 year Winter I+0%	32.500	30.826	-0.204	0.000	0.02
1.003	S103	480 minute 1 year Winter I+0%	32.380	30.409	-1.192	0.000	0.00
3.000	S300	480 minute 1 year Winter I+0%	32.600	31.281	-0.269	0.000	0.02
4.000	S400	480 minute 1 year Winter I+0%	32.600	31.276	-0.199	0.000	0.03
3.001	S301	480 minute 1 year Winter I+0%	32.600	30.510	-0.335	0.000	0.03
1.004	S104	480 minute 1 year Winter I+0%	32.380	30.408	-1.013	0.000	0.00
5.000	S500	480 minute 1 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
5.001	S501	480 minute 1 year Winter I+0%	32.600	30.700	-0.205	0.000	0.02
6.000	S600	480 minute 1 year Winter I+0%	32.600	31.259	-0.141	0.000	0.01
6.001	S601	480 minute 1 year Winter I+0%	32.600	31.076	-0.139	0.000	0.01
6.002	S602	480 minute 1 year Winter I+0%	32.600	30.848	-0.207	0.000	0.02
5.002	S502	480 minute 1 year Winter I+0%	32.600	30.447	-0.263	0.000	0.04
5.003	S503	480 minute 1 year Winter I+0%	32.500	30.410	-0.250	0.000	0.03
7.000	S700	480 minute 1 year Winter I+0%	32.600	31.261	-0.139	0.000	0.02
7.001	S701	480 minute 1 year Winter I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.7	OK
1.002	S102		0.9	OK
2.000	S200		0.6	OK
2.001	S201		1.1	OK
1.003	S103		3.4	OK
3.000	S300		2.5	OK
4.000	S400		2.0	OK
3.001	S301		4.5	OK
1.004	S104		6.2	OK
5.000	S500		0.7	OK
5.001	S501		0.9	OK
6.000	S600		0.3	OK
6.001	S601		0.4	OK
6.002	S602		0.9	OK
5.002	S502		2.2	OK
5.003	S503		2.2	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 1 year Winter I+0%	32.550	30.409	-0.156	0.000	0.04
1.005	S105	480 minute 1 year Winter I+0%	32.380	30.408	-0.062	0.000	0.04
8.000	S800	480 minute 1 year Winter I+0%	32.400	31.268	-0.207	0.000	0.02
1.006	S106	480 minute 1 year Winter I+0%	32.380	30.405	0.245	0.000	0.49
1.007	FW105	480 minute 1 year Winter I+0%	32.380	30.019	-0.116	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.7	OK
1.005	S105		4.9	OK
8.000	S800		1.2	OK
1.006	S106		5.3	SURCHARGED
1.007	FW105		5.3	OK

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Summary Wizard of 600 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 1 year Winter I+0%	32.600	31.255	-0.145	0.000	0.01
1.001	S101	600 minute 1 year Winter I+0%	32.400	30.997	-0.213	0.000	0.01
1.002	S102	600 minute 1 year Winter I+0%	32.600	30.766	-0.209	0.000	0.01
2.000	S200	600 minute 1 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
2.001	S201	600 minute 1 year Winter I+0%	32.500	30.823	-0.207	0.000	0.02
1.003	S103	600 minute 1 year Winter I+0%	32.380	30.403	-1.198	0.000	0.00
3.000	S300	600 minute 1 year Winter I+0%	32.600	31.278	-0.272	0.000	0.02
4.000	S400	600 minute 1 year Winter I+0%	32.600	31.275	-0.200	0.000	0.03
3.001	S301	600 minute 1 year Winter I+0%	32.600	30.508	-0.337	0.000	0.02
1.004	S104	600 minute 1 year Winter I+0%	32.380	30.389	-1.032	0.000	0.00
5.000	S500	600 minute 1 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
5.001	S501	600 minute 1 year Winter I+0%	32.600	30.697	-0.208	0.000	0.02
6.000	S600	600 minute 1 year Winter I+0%	32.600	31.257	-0.143	0.000	0.01
6.001	S601	600 minute 1 year Winter I+0%	32.600	31.074	-0.141	0.000	0.01
6.002	S602	600 minute 1 year Winter I+0%	32.600	30.845	-0.210	0.000	0.01
5.002	S502	600 minute 1 year Winter I+0%	32.600	30.444	-0.266	0.000	0.03
5.003	S503	600 minute 1 year Winter I+0%	32.500	30.395	-0.265	0.000	0.02
7.000	S700	600 minute 1 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
7.001	S701	600 minute 1 year Winter I+0%	32.600	31.154	-0.146	0.000	0.01

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Summary Wizard of 600 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.6	OK
1.002	S102		0.8	OK
2.000	S200		0.5	OK
2.001	S201		1.0	OK
1.003	S103		3.0	OK
3.000	S300		2.2	OK
4.000	S400		1.7	OK
3.001	S301		3.9	OK
1.004	S104		5.6	OK
5.000	S500		0.6	OK
5.001	S501		0.8	OK
6.000	S600		0.3	OK
6.001	S601		0.3	OK
6.002	S602		0.8	OK
5.002	S502		1.9	OK
5.003	S503		1.9	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 1 year Winter I+0%	32.550	30.390	-0.175	0.000	0.03
1.005	S105	600 minute 1 year Winter I+0%	32.380	30.390	-0.080	0.000	0.04
8.000	S800	600 minute 1 year Winter I+0%	32.400	31.266	-0.209	0.000	0.01
1.006	S106	600 minute 1 year Winter I+0%	32.380	30.387	0.227	0.000	0.48
1.007	FW105	600 minute 1 year Winter I+0%	32.380	30.019	-0.116	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.3	OK
1.005	S105		4.8	OK
8.000	S800		1.1	OK
1.006	S106		5.2	SURCHARGED
1.007	FW105		5.2	OK

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

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 1 year Winter I+0%	32.600	31.255	-0.145	0.000	0.01
1.001	S101	720 minute 1 year Winter I+0%	32.400	30.996	-0.214	0.000	0.01
1.002	S102	720 minute 1 year Winter I+0%	32.600	30.764	-0.211	0.000	0.01
2.000	S200	720 minute 1 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
2.001	S201	720 minute 1 year Winter I+0%	32.500	30.821	-0.209	0.000	0.02
1.003	S103	720 minute 1 year Winter I+0%	32.380	30.402	-1.199	0.000	0.00
3.000	S300	720 minute 1 year Winter I+0%	32.600	31.275	-0.275	0.000	0.02
4.000	S400	720 minute 1 year Winter I+0%	32.600	31.273	-0.202	0.000	0.02
3.001	S301	720 minute 1 year Winter I+0%	32.600	30.505	-0.340	0.000	0.02
1.004	S104	720 minute 1 year Winter I+0%	32.380	30.372	-1.049	0.000	0.00
5.000	S500	720 minute 1 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
5.001	S501	720 minute 1 year Winter I+0%	32.600	30.695	-0.210	0.000	0.01
6.000	S600	720 minute 1 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
6.001	S601	720 minute 1 year Winter I+0%	32.600	31.073	-0.142	0.000	0.01
6.002	S602	720 minute 1 year Winter I+0%	32.600	30.843	-0.212	0.000	0.01
5.002	S502	720 minute 1 year Winter I+0%	32.600	30.443	-0.267	0.000	0.03
5.003	S503	720 minute 1 year Winter I+0%	32.500	30.390	-0.270	0.000	0.02
7.000	S700	720 minute 1 year Winter I+0%	32.600	31.259	-0.141	0.000	0.01
7.001	S701	720 minute 1 year Winter I+0%	32.600	31.153	-0.147	0.000	0.00

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.5	OK
1.002	S102		0.7	OK
2.000	S200		0.4	OK
2.001	S201		0.9	OK
1.003	S103		2.7	OK
3.000	S300		1.9	OK
4.000	S400		1.5	OK
3.001	S301		3.4	OK
1.004	S104		5.1	OK
5.000	S500		0.5	OK
5.001	S501		0.7	OK
6.000	S600		0.2	OK
6.001	S601		0.3	OK
6.002	S602		0.7	OK
5.002	S502		1.7	OK
5.003	S503		1.7	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 1 year Winter I+0%	32.550	30.372	-0.193	0.000	0.03
1.005	S105	720 minute 1 year Winter I+0%	32.380	30.372	-0.098	0.000	0.04
8.000	S800	720 minute 1 year Winter I+0%	32.400	31.264	-0.211	0.000	0.01
1.006	S106	720 minute 1 year Winter I+0%	32.380	30.369	0.209	0.000	0.47
1.007	FW105	720 minute 1 year Winter I+0%	32.380	30.019	-0.116	0.000	0.11

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.1	OK
1.005	S105		4.6	OK
8.000	S800		0.9	OK
1.006	S106		5.1	SURCHARGED
1.007	FW105		5.1	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 1 year Winter I+0%	32.600	31.254	-0.146	0.000	0.01
1.001	S101	960 minute 1 year Winter I+0%	32.400	30.994	-0.216	0.000	0.01
1.002	S102	960 minute 1 year Winter I+0%	32.600	30.761	-0.214	0.000	0.01
2.000	S200	960 minute 1 year Winter I+0%	32.600	31.263	-0.137	0.000	0.02
2.001	S201	960 minute 1 year Winter I+0%	32.500	30.818	-0.212	0.000	0.01
1.003	S103	960 minute 1 year Winter I+0%	32.380	30.402	-1.199	0.000	0.00
3.000	S300	960 minute 1 year Winter I+0%	32.600	31.270	-0.280	0.000	0.01
4.000	S400	960 minute 1 year Winter I+0%	32.600	31.271	-0.204	0.000	0.02
3.001	S301	960 minute 1 year Winter I+0%	32.600	30.499	-0.346	0.000	0.02
1.004	S104	960 minute 1 year Winter I+0%	32.380	30.339	-1.082	0.000	0.00
5.000	S500	960 minute 1 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
5.001	S501	960 minute 1 year Winter I+0%	32.600	30.693	-0.212	0.000	0.01
6.000	S600	960 minute 1 year Winter I+0%	32.600	31.255	-0.145	0.000	0.01
6.001	S601	960 minute 1 year Winter I+0%	32.600	31.072	-0.143	0.000	0.01
6.002	S602	960 minute 1 year Winter I+0%	32.600	30.841	-0.214	0.000	0.01
5.002	S502	960 minute 1 year Winter I+0%	32.600	30.441	-0.269	0.000	0.02
5.003	S503	960 minute 1 year Winter I+0%	32.500	30.385	-0.275	0.000	0.02
7.000	S700	960 minute 1 year Winter I+0%	32.600	31.257	-0.143	0.000	0.01
7.001	S701	960 minute 1 year Winter I+0%	32.600	31.153	-0.147	0.000	0.00

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.4	OK
1.002	S102		0.5	OK
2.000	S200		0.4	OK
2.001	S201		0.7	OK
1.003	S103		2.2	OK
3.000	S300		1.6	OK
4.000	S400		1.2	OK
3.001	S301		2.8	OK
1.004	S104		4.4	OK
5.000	S500		0.4	OK
5.001	S501		0.6	OK
6.000	S600		0.2	OK
6.001	S601		0.2	OK
6.002	S602		0.6	OK
5.002	S502		1.4	OK
5.003	S503		1.4	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 1 year Winter I+0%	32.550	30.340	-0.225	0.000	0.02
1.005	S105	960 minute 1 year Winter I+0%	32.380	30.340	-0.130	0.000	0.04
8.000	S800	960 minute 1 year Winter I+0%	32.400	31.261	-0.214	0.000	0.01
1.006	S106	960 minute 1 year Winter I+0%	32.380	30.337	0.177	0.000	0.45
1.007	FW105	960 minute 1 year Winter I+0%	32.380	30.018	-0.117	0.000	0.11

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		1.7	OK
1.005	S105		4.4	OK
8.000	S800		0.8	OK
1.006	S106		4.9	SURCHARGED
1.007	FW105		4.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 1 year Winter I+0%	32.600	31.253	-0.147	0.000	0.00
1.001	S101	1440 minute 1 year Winter I+0%	32.400	30.992	-0.218	0.000	0.01
1.002	S102	1440 minute 1 year Winter I+0%	32.600	30.758	-0.217	0.000	0.01
2.000	S200	1440 minute 1 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
2.001	S201	1440 minute 1 year Winter I+0%	32.500	30.815	-0.215	0.000	0.01
1.003	S103	1440 minute 1 year Winter I+0%	32.380	30.401	-1.200	0.000	0.00
3.000	S300	1440 minute 1 year Winter I+0%	32.600	31.265	-0.285	0.000	0.01
4.000	S400	1440 minute 1 year Winter I+0%	32.600	31.266	-0.209	0.000	0.01
3.001	S301	1440 minute 1 year Winter I+0%	32.600	30.491	-0.354	0.000	0.01
1.004	S104	1440 minute 1 year Winter I+0%	32.380	30.279	-1.142	0.000	0.00
5.000	S500	1440 minute 1 year Winter I+0%	32.600	31.262	-0.138	0.000	0.02
5.001	S501	1440 minute 1 year Winter I+0%	32.600	30.689	-0.216	0.000	0.01
6.000	S600	1440 minute 1 year Winter I+0%	32.600	31.254	-0.146	0.000	0.01
6.001	S601	1440 minute 1 year Winter I+0%	32.600	31.070	-0.145	0.000	0.01
6.002	S602	1440 minute 1 year Winter I+0%	32.600	30.838	-0.217	0.000	0.01
5.002	S502	1440 minute 1 year Winter I+0%	32.600	30.434	-0.276	0.000	0.02
5.003	S503	1440 minute 1 year Winter I+0%	32.500	30.379	-0.281	0.000	0.01
7.000	S700	1440 minute 1 year Winter I+0%	32.600	31.255	-0.145	0.000	0.01
7.001	S701	1440 minute 1 year Winter I+0%	32.600	31.152	-0.148	0.000	0.00

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.3	OK
1.002	S102		0.4	OK
2.000	S200		0.3	OK
2.001	S201		0.5	OK
1.003	S103		1.6	OK
3.000	S300		1.2	OK
4.000	S400		0.9	OK
3.001	S301		2.1	OK
1.004	S104		3.4	OK
5.000	S500		0.3	OK
5.001	S501		0.4	OK
6.000	S600		0.1	OK
6.001	S601		0.2	OK
6.002	S602		0.4	OK
5.002	S502		1.0	OK
5.003	S503		1.0	OK
7.000	S700		0.1	OK
7.001	S701		0.1	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 1 year Winter I+0%	32.550	30.293	-0.272	0.000	0.02
1.005	S105	1440 minute 1 year Winter I+0%	32.380	30.279	-0.191	0.000	0.03
8.000	S800	1440 minute 1 year Winter I+0%	32.400	31.259	-0.216	0.000	0.01
1.006	S106	1440 minute 1 year Winter I+0%	32.380	30.277	0.117	0.000	0.41
1.007	FW105	1440 minute 1 year Winter I+0%	32.380	30.017	-0.118	0.000	0.10

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		1.3	OK
1.005	S105		4.0	OK
8.000	S800		0.6	OK
1.006	S106		4.4	SURCHARGED
1.007	FW105		4.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	15 minute 2 year Winter I+0%	32.600	31.279	-0.121	0.000	0.08	
1.001	S101	15 minute 2 year Winter I+0%	32.400	31.035	-0.175	0.000	0.11	
1.002	S102	15 minute 2 year Winter I+0%	32.600	30.807	-0.168	0.000	0.14	
2.000	S200	15 minute 2 year Winter I+0%	32.600	31.305	-0.095	0.000	0.29	
2.001	S201	15 minute 2 year Winter I+0%	32.500	30.869	-0.161	0.000	0.18	
1.003	S103	15 minute 2 year Winter I+0%	32.380	30.424	-1.177	0.000	0.01	
3.000	S300	15 minute 2 year Winter I+0%	32.600	31.345	-0.205	0.000	0.21	
4.000	S400	15 minute 2 year Winter I+0%	32.600	31.335	-0.140	0.000	0.30	
3.001	S301	15 minute 2 year Winter I+0%	32.600	30.596	-0.249	0.000	0.24	
1.004	S104	15 minute 2 year Winter I+0%	32.380	30.405	-1.016	0.000	0.01	
5.000	S500	15 minute 2 year Winter I+0%	32.600	31.312	-0.088	0.000	0.35	
5.001	S501	15 minute 2 year Winter I+0%	32.600	30.743	-0.162	0.000	0.18	
6.000	S600	15 minute 2 year Winter I+0%	32.600	31.284	-0.116	0.000	0.11	
6.001	S601	15 minute 2 year Winter I+0%	32.600	31.102	-0.113	0.000	0.14	
6.002	S602	15 minute 2 year Winter I+0%	32.600	30.887	-0.168	0.000	0.14	
5.002	S502	15 minute 2 year Winter I+0%	32.600	30.525	-0.185	0.000	0.31	
5.003	S503	15 minute 2 year Winter I+0%	32.500	30.461	-0.199	0.000	0.25	
7.000	S700	15 minute 2 year Winter I+0%	32.600	31.289	-0.111	0.000	0.15	
7.001	S701	15 minute 2 year Winter I+0%	32.600	31.173	-0.127	0.000	0.06	

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

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.5	OK
1.001	S101	5.9	OK
1.002	S102	7.3	OK
2.000	S200	5.5	OK
2.001	S201	9.9	OK
1.003	S103	26.5	OK
3.000	S300	23.4	OK
4.000	S400	18.5	OK
3.001	S301	42.2	OK
1.004	S104	52.7	OK
5.000	S500	6.7	OK
5.001	S501	8.3	OK
6.000	S600	3.0	OK
6.001	S601	3.4	OK
6.002	S602	7.6	OK
5.002	S502	19.2	OK
5.003	S503	19.2	OK
7.000	S700	2.6	OK
7.001	S701	2.6	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	15 minute 2 year Winter I+0%	32.550	30.405	-0.160	0.000	0.31	
1.005	S105	15 minute 2 year Winter I+0%	32.380	30.405	-0.065	0.000	0.05	
8.000	S800	15 minute 2 year Winter I+0%	32.400	31.311	-0.164	0.000	0.16	
1.006	S106	15 minute 2 year Winter I+0%	32.380	30.401	0.241	0.000	0.49	
1.007	FW105	15 minute 2 year Winter I+0%	32.380	30.019	-0.116	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	23.8	OK
1.005	S105	5.2	OK
8.000	S800	11.5	OK
1.006	S106	5.3	SURCHARGED
1.007	FW105	5.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	30 minute 2 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06	
1.001	S101	30 minute 2 year Winter I+0%	32.400	31.031	-0.179	0.000	0.09	
1.002	S102	30 minute 2 year Winter I+0%	32.600	30.802	-0.173	0.000	0.12	
2.000	S200	30 minute 2 year Winter I+0%	32.600	31.298	-0.102	0.000	0.23	
2.001	S201	30 minute 2 year Winter I+0%	32.500	30.862	-0.168	0.000	0.14	
1.003	S103	30 minute 2 year Winter I+0%	32.380	30.451	-1.150	0.000	0.01	
3.000	S300	30 minute 2 year Winter I+0%	32.600	31.333	-0.217	0.000	0.17	
4.000	S400	30 minute 2 year Winter I+0%	32.600	31.324	-0.151	0.000	0.24	
3.001	S301	30 minute 2 year Winter I+0%	32.600	30.581	-0.264	0.000	0.19	
1.004	S104	30 minute 2 year Winter I+0%	32.380	30.451	-0.970	0.000	0.01	
5.000	S500	30 minute 2 year Winter I+0%	32.600	31.304	-0.096	0.000	0.28	
5.001	S501	30 minute 2 year Winter I+0%	32.600	30.736	-0.169	0.000	0.14	
6.000	S600	30 minute 2 year Winter I+0%	32.600	31.280	-0.120	0.000	0.09	
6.001	S601	30 minute 2 year Winter I+0%	32.600	31.098	-0.117	0.000	0.11	
6.002	S602	30 minute 2 year Winter I+0%	32.600	30.881	-0.174	0.000	0.12	
5.002	S502	30 minute 2 year Winter I+0%	32.600	30.513	-0.197	0.000	0.26	
5.003	S503	30 minute 2 year Winter I+0%	32.500	30.453	-0.207	0.000	0.20	
7.000	S700	30 minute 2 year Winter I+0%	32.600	31.284	-0.116	0.000	0.12	
7.001	S701	30 minute 2 year Winter I+0%	32.600	31.170	-0.130	0.000	0.04	

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.2	OK
1.001	S101	5.0	OK
1.002	S102	6.1	OK
2.000	S200	4.4	OK
2.001	S201	8.2	OK
1.003	S103	19.6	OK
3.000	S300	18.7	OK
4.000	S400	14.8	OK
3.001	S301	33.4	OK
1.004	S104	37.4	OK
5.000	S500	5.3	OK
5.001	S501	6.6	OK
6.000	S600	2.3	OK
6.001	S601	2.7	OK
6.002	S602	6.4	OK
5.002	S502	15.8	OK
5.003	S503	15.8	OK
7.000	S700	2.0	OK
7.001	S701	2.0	OK

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	30 minute 2 year Winter I+0%	32.550	30.452	-0.113	0.000	0.25	
1.005	S105	30 minute 2 year Winter I+0%	32.380	30.451	-0.019	0.000	0.05	
8.000	S800	30 minute 2 year Winter I+0%	32.400	31.303	-0.172	0.000	0.13	
1.006	S106	30 minute 2 year Winter I+0%	32.380	30.444	0.284	0.000	0.51	
1.007	FW105	30 minute 2 year Winter I+0%	32.380	30.020	-0.115	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	19.5	OK
1.005	S105	5.5	OK
8.000	S800	9.2	OK
1.006	S106	5.5	SURCHARGED
1.007	FW105	5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	60 minute 2 year Winter I+0%	32.600	31.270	-0.130	0.000	0.04	
1.001	S101	60 minute 2 year Winter I+0%	32.400	31.023	-0.187	0.000	0.07	
1.002	S102	60 minute 2 year Winter I+0%	32.600	30.794	-0.181	0.000	0.08	
2.000	S200	60 minute 2 year Winter I+0%	32.600	31.289	-0.111	0.000	0.16	
2.001	S201	60 minute 2 year Winter I+0%	32.500	30.852	-0.178	0.000	0.10	
1.003	S103	60 minute 2 year Winter I+0%	32.380	30.489	-1.112	0.000	0.00	
3.000	S300	60 minute 2 year Winter I+0%	32.600	31.318	-0.232	0.000	0.12	
4.000	S400	60 minute 2 year Winter I+0%	32.600	31.310	-0.165	0.000	0.16	
3.001	S301	60 minute 2 year Winter I+0%	32.600	30.560	-0.285	0.000	0.13	
1.004	S104	60 minute 2 year Winter I+0%	32.380	30.489	-0.932	0.000	0.00	
5.000	S500	60 minute 2 year Winter I+0%	32.600	31.294	-0.106	0.000	0.19	
5.001	S501	60 minute 2 year Winter I+0%	32.600	30.726	-0.179	0.000	0.10	
6.000	S600	60 minute 2 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06	
6.001	S601	60 minute 2 year Winter I+0%	32.600	31.092	-0.123	0.000	0.07	
6.002	S602	60 minute 2 year Winter I+0%	32.600	30.873	-0.182	0.000	0.08	
5.002	S502	60 minute 2 year Winter I+0%	32.600	30.495	-0.215	0.000	0.18	
5.003	S503	60 minute 2 year Winter I+0%	32.500	30.491	-0.169	0.000	0.14	
7.000	S700	60 minute 2 year Winter I+0%	32.600	31.278	-0.122	0.000	0.08	
7.001	S701	60 minute 2 year Winter I+0%	32.600	31.167	-0.133	0.000	0.03	

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	0.8	OK
1.001	S101	3.5	OK
1.002	S102	4.3	OK
2.000	S200	3.0	OK
2.001	S201	5.7	OK
1.003	S103	12.5	OK
3.000	S300	12.8	OK
4.000	S400	10.0	OK
3.001	S301	22.7	OK
1.004	S104	23.2	OK
5.000	S500	3.6	OK
5.001	S501	4.5	OK
6.000	S600	1.6	OK
6.001	S601	1.9	OK
6.002	S602	4.5	OK
5.002	S502	11.0	OK
5.003	S503	11.0	OK
7.000	S700	1.4	OK
7.001	S701	1.4	OK

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	60 minute 2 year Winter I+0%	32.550	30.490	-0.075	0.000	0.17	
1.005	S105	60 minute 2 year Winter I+0%	32.380	30.489	0.019	0.000	0.05	
8.000	S800	60 minute 2 year Winter I+0%	32.400	31.295	-0.180	0.000	0.09	
1.006	S106	60 minute 2 year Winter I+0%	32.380	30.486	0.326	0.000	0.53	
1.007	FW105	60 minute 2 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	13.3	OK
1.005	S105	5.7	SURCHARGED
8.000	S800	6.2	OK
1.006	S106	5.8	SURCHARGED
1.007	FW105	5.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 2 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
1.001	S101	120 minute 2 year Winter I+0%	32.400	31.015	-0.195	0.000	0.04
1.002	S102	120 minute 2 year Winter I+0%	32.600	30.784	-0.191	0.000	0.05
2.000	S200	120 minute 2 year Winter I+0%	32.600	31.281	-0.119	0.000	0.10
2.001	S201	120 minute 2 year Winter I+0%	32.500	30.842	-0.188	0.000	0.06
1.003	S103	120 minute 2 year Winter I+0%	32.380	30.510	-1.091	0.000	0.00
3.000	S300	120 minute 2 year Winter I+0%	32.600	31.304	-0.246	0.000	0.07
4.000	S400	120 minute 2 year Winter I+0%	32.600	31.298	-0.177	0.000	0.10
3.001	S301	120 minute 2 year Winter I+0%	32.600	30.542	-0.303	0.000	0.08
1.004	S104	120 minute 2 year Winter I+0%	32.380	30.510	-0.911	0.000	0.00
5.000	S500	120 minute 2 year Winter I+0%	32.600	31.284	-0.116	0.000	0.12
5.001	S501	120 minute 2 year Winter I+0%	32.600	30.716	-0.189	0.000	0.06
6.000	S600	120 minute 2 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
6.001	S601	120 minute 2 year Winter I+0%	32.600	31.086	-0.129	0.000	0.05
6.002	S602	120 minute 2 year Winter I+0%	32.600	30.863	-0.192	0.000	0.05
5.002	S502	120 minute 2 year Winter I+0%	32.600	30.511	-0.199	0.000	0.12
5.003	S503	120 minute 2 year Winter I+0%	32.500	30.511	-0.149	0.000	0.09
7.000	S700	120 minute 2 year Winter I+0%	32.600	31.272	-0.128	0.000	0.05
7.001	S701	120 minute 2 year Winter I+0%	32.600	31.164	-0.136	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	OK
1.001	S101		2.2	OK
1.002	S102		2.8	OK
2.000	S200		1.9	OK
2.001	S201		3.6	OK
1.003	S103		7.7	OK
3.000	S300		8.1	OK
4.000	S400		6.3	OK
3.001	S301		14.4	OK
1.004	S104		14.4	OK
5.000	S500		2.3	OK
5.001	S501		2.9	OK
6.000	S600		1.0	OK
6.001	S601		1.2	OK
6.002	S602		2.9	OK
5.002	S502		7.1	OK
5.003	S503		7.1	OK
7.000	S700		0.9	OK
7.001	S701		0.9	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 2 year Winter I+0%	32.550	30.510	-0.055	0.000	0.11
1.005	S105	120 minute 2 year Winter I+0%	32.380	30.510	0.040	0.000	0.05
8.000	S800	120 minute 2 year Winter I+0%	32.400	31.284	-0.191	0.000	0.06
1.006	S106	120 minute 2 year Winter I+0%	32.380	30.507	0.347	0.000	0.54
1.007	FW105	120 minute 2 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		8.4	OK
1.005	S105		5.8	SURCHARGED
8.000	S800		4.0	OK
1.006	S106		5.9	SURCHARGED
1.007	FW105		5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 2 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
1.001	S101	180 minute 2 year Winter I+0%	32.400	31.011	-0.199	0.000	0.03
1.002	S102	180 minute 2 year Winter I+0%	32.600	30.779	-0.196	0.000	0.04
2.000	S200	180 minute 2 year Winter I+0%	32.600	31.277	-0.123	0.000	0.07
2.001	S201	180 minute 2 year Winter I+0%	32.500	30.837	-0.193	0.000	0.05
1.003	S103	180 minute 2 year Winter I+0%	32.380	30.510	-1.091	0.000	0.00
3.000	S300	180 minute 2 year Winter I+0%	32.600	31.296	-0.254	0.000	0.06
4.000	S400	180 minute 2 year Winter I+0%	32.600	31.291	-0.184	0.000	0.08
3.001	S301	180 minute 2 year Winter I+0%	32.600	30.531	-0.314	0.000	0.06
1.004	S104	180 minute 2 year Winter I+0%	32.380	30.510	-0.911	0.000	0.00
5.000	S500	180 minute 2 year Winter I+0%	32.600	31.280	-0.120	0.000	0.09
5.001	S501	180 minute 2 year Winter I+0%	32.600	30.711	-0.194	0.000	0.05
6.000	S600	180 minute 2 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
6.001	S601	180 minute 2 year Winter I+0%	32.600	31.083	-0.132	0.000	0.04
6.002	S602	180 minute 2 year Winter I+0%	32.600	30.859	-0.196	0.000	0.04
5.002	S502	180 minute 2 year Winter I+0%	32.600	30.512	-0.198	0.000	0.09
5.003	S503	180 minute 2 year Winter I+0%	32.500	30.512	-0.148	0.000	0.07
7.000	S700	180 minute 2 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
7.001	S701	180 minute 2 year Winter I+0%	32.600	31.160	-0.140	0.000	0.01

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.7	OK
1.002	S102		2.1	OK
2.000	S200		1.4	OK
2.001	S201		2.8	OK
1.003	S103		6.0	OK
3.000	S300		6.1	OK
4.000	S400		4.8	OK
3.001	S301		11.0	OK
1.004	S104		11.1	OK
5.000	S500		1.7	OK
5.001	S501		2.2	OK
6.000	S600		0.8	OK
6.001	S601		0.9	OK
6.002	S602		2.2	OK
5.002	S502		5.4	OK
5.003	S503		5.3	OK
7.000	S700		0.7	OK
7.001	S701		0.7	OK

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 2 year Winter I+0%	32.550	30.511	-0.054	0.000	0.08
1.005	S105	180 minute 2 year Winter I+0%	32.380	30.510	0.040	0.000	0.05
8.000	S800	180 minute 2 year Winter I+0%	32.400	31.279	-0.196	0.000	0.04
1.006	S106	180 minute 2 year Winter I+0%	32.380	30.507	0.347	0.000	0.54
1.007	FW105	180 minute 2 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.4	OK
1.005	S105		5.7	SURCHARGED
8.000	S800		3.0	OK
1.006	S106		5.9	SURCHARGED
1.007	FW105		5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 2 year Winter I+0%	32.600	31.262	-0.138	0.000	0.02
1.001	S101	240 minute 2 year Winter I+0%	32.400	31.009	-0.201	0.000	0.03
1.002	S102	240 minute 2 year Winter I+0%	32.600	30.777	-0.198	0.000	0.03
2.000	S200	240 minute 2 year Winter I+0%	32.600	31.274	-0.126	0.000	0.06
2.001	S201	240 minute 2 year Winter I+0%	32.500	30.834	-0.196	0.000	0.04
1.003	S103	240 minute 2 year Winter I+0%	32.380	30.506	-1.095	0.000	0.00
3.000	S300	240 minute 2 year Winter I+0%	32.600	31.291	-0.259	0.000	0.05
4.000	S400	240 minute 2 year Winter I+0%	32.600	31.287	-0.188	0.000	0.06
3.001	S301	240 minute 2 year Winter I+0%	32.600	30.525	-0.320	0.000	0.05
1.004	S104	240 minute 2 year Winter I+0%	32.380	30.507	-0.914	0.000	0.00
5.000	S500	240 minute 2 year Winter I+0%	32.600	31.277	-0.123	0.000	0.07
5.001	S501	240 minute 2 year Winter I+0%	32.600	30.708	-0.197	0.000	0.04
6.000	S600	240 minute 2 year Winter I+0%	32.600	31.266	-0.134	0.000	0.02
6.001	S601	240 minute 2 year Winter I+0%	32.600	31.082	-0.133	0.000	0.03
6.002	S602	240 minute 2 year Winter I+0%	32.600	30.857	-0.198	0.000	0.03
5.002	S502	240 minute 2 year Winter I+0%	32.600	30.508	-0.202	0.000	0.07
5.003	S503	240 minute 2 year Winter I+0%	32.500	30.508	-0.152	0.000	0.06
7.000	S700	240 minute 2 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	240 minute 2 year Winter I+0%	32.600	31.158	-0.142	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.4	OK
1.002	S102		1.8	OK
2.000	S200		1.2	OK
2.001	S201		2.3	OK
1.003	S103		5.1	OK
3.000	S300		5.0	OK
4.000	S400		3.9	OK
3.001	S301		9.0	OK
1.004	S104		9.5	OK
5.000	S500		1.4	OK
5.001	S501		1.8	OK
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.8	OK
5.002	S502		4.4	OK
5.003	S503		4.4	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 2 year Winter I+0%	32.550	30.507	-0.058	0.000	0.07
1.005	S105	240 minute 2 year Winter I+0%	32.380	30.507	0.037	0.000	0.05
8.000	S800	240 minute 2 year Winter I+0%	32.400	31.277	-0.198	0.000	0.03
1.006	S106	240 minute 2 year Winter I+0%	32.380	30.504	0.344	0.000	0.54
1.007	FW105	240 minute 2 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.3	OK
1.005	S105		5.7	SURCHARGED
8.000	S800		2.5	OK
1.006	S106		5.9	SURCHARGED
1.007	FW105		5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 2 year Winter I+0%	32.600	31.259	-0.141	0.000	0.01
1.001	S101	360 minute 2 year Winter I+0%	32.400	31.006	-0.204	0.000	0.02
1.002	S102	360 minute 2 year Winter I+0%	32.600	30.774	-0.201	0.000	0.03
2.000	S200	360 minute 2 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
2.001	S201	360 minute 2 year Winter I+0%	32.500	30.830	-0.200	0.000	0.03
1.003	S103	360 minute 2 year Winter I+0%	32.380	30.492	-1.109	0.000	0.00
3.000	S300	360 minute 2 year Winter I+0%	32.600	31.286	-0.264	0.000	0.03
4.000	S400	360 minute 2 year Winter I+0%	32.600	31.281	-0.194	0.000	0.05
3.001	S301	360 minute 2 year Winter I+0%	32.600	30.517	-0.328	0.000	0.04
1.004	S104	360 minute 2 year Winter I+0%	32.380	30.492	-0.929	0.000	0.00
5.000	S500	360 minute 2 year Winter I+0%	32.600	31.273	-0.127	0.000	0.06
5.001	S501	360 minute 2 year Winter I+0%	32.600	30.705	-0.200	0.000	0.03
6.000	S600	360 minute 2 year Winter I+0%	32.600	31.263	-0.137	0.000	0.02
6.001	S601	360 minute 2 year Winter I+0%	32.600	31.080	-0.135	0.000	0.02
6.002	S602	360 minute 2 year Winter I+0%	32.600	30.854	-0.201	0.000	0.02
5.002	S502	360 minute 2 year Winter I+0%	32.600	30.494	-0.216	0.000	0.05
5.003	S503	360 minute 2 year Winter I+0%	32.500	30.493	-0.167	0.000	0.04
7.000	S700	360 minute 2 year Winter I+0%	32.600	31.266	-0.134	0.000	0.02
7.001	S701	360 minute 2 year Winter I+0%	32.600	31.156	-0.144	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		1.1	OK
1.002	S102		1.3	OK
2.000	S200		0.9	OK
2.001	S201		1.7	OK
1.003	S103		4.2	OK
3.000	S300		3.8	OK
4.000	S400		3.0	OK
3.001	S301		6.8	OK
1.004	S104		7.7	OK
5.000	S500		1.1	OK
5.001	S501		1.4	OK
6.000	S600		0.5	OK
6.001	S601		0.6	OK
6.002	S602		1.3	OK
5.002	S502		3.3	OK
5.003	S503		3.3	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 2 year Winter I+0%	32.550	30.493	-0.072	0.000	0.05
1.005	S105	360 minute 2 year Winter I+0%	32.380	30.492	0.022	0.000	0.05
8.000	S800	360 minute 2 year Winter I+0%	32.400	31.274	-0.201	0.000	0.03
1.006	S106	360 minute 2 year Winter I+0%	32.380	30.489	0.329	0.000	0.53
1.007	FW105	360 minute 2 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.0	OK
1.005	S105		5.4	SURCHARGED
8.000	S800		1.8	OK
1.006	S106		5.8	SURCHARGED
1.007	FW105		5.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 2 year Winter I+0%	32.600	31.257	-0.143	0.000	0.01
1.001	S101	480 minute 2 year Winter I+0%	32.400	31.003	-0.207	0.000	0.02
1.002	S102	480 minute 2 year Winter I+0%	32.600	30.772	-0.203	0.000	0.02
2.000	S200	480 minute 2 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
2.001	S201	480 minute 2 year Winter I+0%	32.500	30.829	-0.201	0.000	0.02
1.003	S103	480 minute 2 year Winter I+0%	32.380	30.474	-1.127	0.000	0.00
3.000	S300	480 minute 2 year Winter I+0%	32.600	31.283	-0.267	0.000	0.03
4.000	S400	480 minute 2 year Winter I+0%	32.600	31.278	-0.197	0.000	0.04
3.001	S301	480 minute 2 year Winter I+0%	32.600	30.513	-0.332	0.000	0.03
1.004	S104	480 minute 2 year Winter I+0%	32.380	30.474	-0.947	0.000	0.00
5.000	S500	480 minute 2 year Winter I+0%	32.600	31.270	-0.130	0.000	0.05
5.001	S501	480 minute 2 year Winter I+0%	32.600	30.703	-0.202	0.000	0.02
6.000	S600	480 minute 2 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
6.001	S601	480 minute 2 year Winter I+0%	32.600	31.078	-0.137	0.000	0.02
6.002	S602	480 minute 2 year Winter I+0%	32.600	30.852	-0.203	0.000	0.02
5.002	S502	480 minute 2 year Winter I+0%	32.600	30.476	-0.234	0.000	0.04
5.003	S503	480 minute 2 year Winter I+0%	32.500	30.475	-0.185	0.000	0.03
7.000	S700	480 minute 2 year Winter I+0%	32.600	31.264	-0.136	0.000	0.02
7.001	S701	480 minute 2 year Winter I+0%	32.600	31.155	-0.145	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.9	OK
1.002	S102		1.1	OK
2.000	S200		0.7	OK
2.001	S201		1.4	OK
1.003	S103		3.6	OK
3.000	S300		3.1	OK
4.000	S400		2.4	OK
3.001	S301		5.5	OK
1.004	S104		6.6	OK
5.000	S500		0.9	OK
5.001	S501		1.1	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.1	OK
5.002	S502		2.7	OK
5.003	S503		2.7	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 2 year Winter I+0%	32.550	30.475	-0.090	0.000	0.04
1.005	S105	480 minute 2 year Winter I+0%	32.380	30.474	0.004	0.000	0.05
8.000	S800	480 minute 2 year Winter I+0%	32.400	31.272	-0.203	0.000	0.02
1.006	S106	480 minute 2 year Winter I+0%	32.380	30.471	0.311	0.000	0.53
1.007	FW105	480 minute 2 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.3	OK
1.005	S105		5.6	SURCHARGED
8.000	S800		1.5	OK
1.006	S106		5.7	SURCHARGED
1.007	FW105		5.7	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 2 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
1.001	S101	600 minute 2 year Winter I+0%	32.400	31.000	-0.210	0.000	0.01
1.002	S102	600 minute 2 year Winter I+0%	32.600	30.769	-0.206	0.000	0.02
2.000	S200	600 minute 2 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
2.001	S201	600 minute 2 year Winter I+0%	32.500	30.827	-0.203	0.000	0.02
1.003	S103	600 minute 2 year Winter I+0%	32.380	30.456	-1.145	0.000	0.00
3.000	S300	600 minute 2 year Winter I+0%	32.600	31.281	-0.269	0.000	0.02
4.000	S400	600 minute 2 year Winter I+0%	32.600	31.276	-0.199	0.000	0.03
3.001	S301	600 minute 2 year Winter I+0%	32.600	30.511	-0.334	0.000	0.03
1.004	S104	600 minute 2 year Winter I+0%	32.380	30.456	-0.965	0.000	0.00
5.000	S500	600 minute 2 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
5.001	S501	600 minute 2 year Winter I+0%	32.600	30.701	-0.204	0.000	0.02
6.000	S600	600 minute 2 year Winter I+0%	32.600	31.259	-0.141	0.000	0.01
6.001	S601	600 minute 2 year Winter I+0%	32.600	31.076	-0.139	0.000	0.02
6.002	S602	600 minute 2 year Winter I+0%	32.600	30.848	-0.207	0.000	0.02
5.002	S502	600 minute 2 year Winter I+0%	32.600	30.458	-0.252	0.000	0.04
5.003	S503	600 minute 2 year Winter I+0%	32.500	30.457	-0.203	0.000	0.03
7.000	S700	600 minute 2 year Winter I+0%	32.600	31.262	-0.138	0.000	0.02
7.001	S701	600 minute 2 year Winter I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.7	OK
1.002	S102		0.9	OK
2.000	S200		0.6	OK
2.001	S201		1.2	OK
1.003	S103		3.2	OK
3.000	S300		2.6	OK
4.000	S400		2.1	OK
3.001	S301		4.7	OK
1.004	S104		6.0	OK
5.000	S500		0.7	OK
5.001	S501		0.9	OK
6.000	S600		0.3	OK
6.001	S601		0.4	OK
6.002	S602		0.9	OK
5.002	S502		2.3	OK
5.003	S503		2.3	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 2 year Winter I+0%	32.550	30.456	-0.109	0.000	0.04
1.005	S105	600 minute 2 year Winter I+0%	32.380	30.456	-0.014	0.000	0.05
8.000	S800	600 minute 2 year Winter I+0%	32.400	31.269	-0.206	0.000	0.02
1.006	S106	600 minute 2 year Winter I+0%	32.380	30.447	0.287	0.000	0.51
1.007	FW105	600 minute 2 year Winter I+0%	32.380	30.020	-0.115	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.8	OK
1.005	S105		5.2	OK
8.000	S800		1.3	OK
1.006	S106		5.6	SURCHARGED
1.007	FW105		5.6	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 2 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
1.001	S101	720 minute 2 year Winter I+0%	32.400	30.998	-0.212	0.000	0.01
1.002	S102	720 minute 2 year Winter I+0%	32.600	30.767	-0.208	0.000	0.02
2.000	S200	720 minute 2 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
2.001	S201	720 minute 2 year Winter I+0%	32.500	30.825	-0.205	0.000	0.02
1.003	S103	720 minute 2 year Winter I+0%	32.380	30.437	-1.164	0.000	0.00
3.000	S300	720 minute 2 year Winter I+0%	32.600	31.280	-0.270	0.000	0.02
4.000	S400	720 minute 2 year Winter I+0%	32.600	31.275	-0.200	0.000	0.03
3.001	S301	720 minute 2 year Winter I+0%	32.600	30.509	-0.336	0.000	0.02
1.004	S104	720 minute 2 year Winter I+0%	32.380	30.437	-0.984	0.000	0.00
5.000	S500	720 minute 2 year Winter I+0%	32.600	31.268	-0.132	0.000	0.03
5.001	S501	720 minute 2 year Winter I+0%	32.600	30.699	-0.206	0.000	0.02
6.000	S600	720 minute 2 year Winter I+0%	32.600	31.258	-0.142	0.000	0.01
6.001	S601	720 minute 2 year Winter I+0%	32.600	31.075	-0.140	0.000	0.01
6.002	S602	720 minute 2 year Winter I+0%	32.600	30.846	-0.209	0.000	0.02
5.002	S502	720 minute 2 year Winter I+0%	32.600	30.445	-0.265	0.000	0.03
5.003	S503	720 minute 2 year Winter I+0%	32.500	30.438	-0.222	0.000	0.03
7.000	S700	720 minute 2 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
7.001	S701	720 minute 2 year Winter I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.6	OK
1.002	S102		0.8	OK
2.000	S200		0.5	OK
2.001	S201		1.0	OK
1.003	S103		2.9	OK
3.000	S300		2.3	OK
4.000	S400		1.8	OK
3.001	S301		4.1	OK
1.004	S104		5.6	OK
5.000	S500		0.6	OK
5.001	S501		0.8	OK
6.000	S600		0.3	OK
6.001	S601		0.3	OK
6.002	S602		0.8	OK
5.002	S502		2.0	OK
5.003	S503		2.0	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 2 year Winter I+0%	32.550	30.438	-0.127	0.000	0.03
1.005	S105	720 minute 2 year Winter I+0%	32.380	30.437	-0.033	0.000	0.04
8.000	S800	720 minute 2 year Winter I+0%	32.400	31.267	-0.208	0.000	0.02
1.006	S106	720 minute 2 year Winter I+0%	32.380	30.432	0.272	0.000	0.51
1.007	FW105	720 minute 2 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.5	OK
1.005	S105		5.1	OK
8.000	S800		1.1	OK
1.006	S106		5.5	SURCHARGED
1.007	FW105		5.5	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 2 year Winter I+0%	32.600	31.254	-0.146	0.000	0.01
1.001	S101	960 minute 2 year Winter I+0%	32.400	30.996	-0.214	0.000	0.01
1.002	S102	960 minute 2 year Winter I+0%	32.600	30.764	-0.211	0.000	0.01
2.000	S200	960 minute 2 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
2.001	S201	960 minute 2 year Winter I+0%	32.500	30.821	-0.209	0.000	0.01
1.003	S103	960 minute 2 year Winter I+0%	32.380	30.405	-1.196	0.000	0.00
3.000	S300	960 minute 2 year Winter I+0%	32.600	31.274	-0.276	0.000	0.02
4.000	S400	960 minute 2 year Winter I+0%	32.600	31.273	-0.202	0.000	0.02
3.001	S301	960 minute 2 year Winter I+0%	32.600	30.504	-0.341	0.000	0.02
1.004	S104	960 minute 2 year Winter I+0%	32.380	30.402	-1.019	0.000	0.00
5.000	S500	960 minute 2 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
5.001	S501	960 minute 2 year Winter I+0%	32.600	30.695	-0.210	0.000	0.01
6.000	S600	960 minute 2 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
6.001	S601	960 minute 2 year Winter I+0%	32.600	31.073	-0.142	0.000	0.01
6.002	S602	960 minute 2 year Winter I+0%	32.600	30.843	-0.212	0.000	0.01
5.002	S502	960 minute 2 year Winter I+0%	32.600	30.443	-0.267	0.000	0.03
5.003	S503	960 minute 2 year Winter I+0%	32.500	30.404	-0.256	0.000	0.02
7.000	S700	960 minute 2 year Winter I+0%	32.600	31.258	-0.142	0.000	0.01
7.001	S701	960 minute 2 year Winter I+0%	32.600	31.153	-0.147	0.000	0.00

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Summary Wizard of 960 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.5	OK
1.002	S102		0.7	OK
2.000	S200		0.4	OK
2.001	S201		0.8	OK
1.003	S103		2.5	OK
3.000	S300		1.9	OK
4.000	S400		1.5	OK
3.001	S301		3.3	OK
1.004	S104		5.0	OK
5.000	S500		0.5	OK
5.001	S501		0.7	OK
6.000	S600		0.2	OK
6.001	S601		0.3	OK
6.002	S602		0.7	OK
5.002	S502		1.6	OK
5.003	S503		1.6	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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Summary Wizard of 960 minute 2 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 2 year Winter I+0%	32.550	30.403	-0.162	0.000	0.03
1.005	S105	960 minute 2 year Winter I+0%	32.380	30.402	-0.068	0.000	0.04
8.000	S800	960 minute 2 year Winter I+0%	32.400	31.264	-0.211	0.000	0.01
1.006	S106	960 minute 2 year Winter I+0%	32.380	30.399	0.239	0.000	0.49
1.007	FW105	960 minute 2 year Winter I+0%	32.380	30.019	-0.116	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.0	OK
1.005	S105		4.8	OK
8.000	S800		0.9	OK
1.006	S106		5.3	SURCHARGED
1.007	FW105		5.3	OK

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Summary Wizard of 1440 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 2 year Winter I+0%	32.600	31.253	-0.147	0.000	0.00
1.001	S101	1440 minute 2 year Winter I+0%	32.400	30.993	-0.217	0.000	0.01
1.002	S102	1440 minute 2 year Winter I+0%	32.600	30.760	-0.215	0.000	0.01
2.000	S200	1440 minute 2 year Winter I+0%	32.600	31.262	-0.138	0.000	0.02
2.001	S201	1440 minute 2 year Winter I+0%	32.500	30.817	-0.213	0.000	0.01
1.003	S103	1440 minute 2 year Winter I+0%	32.380	30.402	-1.199	0.000	0.00
3.000	S300	1440 minute 2 year Winter I+0%	32.600	31.268	-0.282	0.000	0.01
4.000	S400	1440 minute 2 year Winter I+0%	32.600	31.269	-0.206	0.000	0.02
3.001	S301	1440 minute 2 year Winter I+0%	32.600	30.496	-0.349	0.000	0.01
1.004	S104	1440 minute 2 year Winter I+0%	32.380	30.339	-1.082	0.000	0.00
5.000	S500	1440 minute 2 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
5.001	S501	1440 minute 2 year Winter I+0%	32.600	30.691	-0.214	0.000	0.01
6.000	S600	1440 minute 2 year Winter I+0%	32.600	31.255	-0.145	0.000	0.01
6.001	S601	1440 minute 2 year Winter I+0%	32.600	31.071	-0.144	0.000	0.01
6.002	S602	1440 minute 2 year Winter I+0%	32.600	30.840	-0.215	0.000	0.01
5.002	S502	1440 minute 2 year Winter I+0%	32.600	30.438	-0.272	0.000	0.02
5.003	S503	1440 minute 2 year Winter I+0%	32.500	30.383	-0.277	0.000	0.02
7.000	S700	1440 minute 2 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
7.001	S701	1440 minute 2 year Winter I+0%	32.600	31.152	-0.148	0.000	0.00

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.4	OK
1.002	S102		0.5	OK
2.000	S200		0.3	OK
2.001	S201		0.6	OK
1.003	S103		2.0	OK
3.000	S300		1.4	OK
4.000	S400		1.1	OK
3.001	S301		2.5	OK
1.004	S104		4.0	OK
5.000	S500		0.4	OK
5.001	S501		0.5	OK
6.000	S600		0.2	OK
6.001	S601		0.2	OK
6.002	S602		0.5	OK
5.002	S502		1.2	OK
5.003	S503		1.2	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 2 year Winter I+0%	32.550	30.340	-0.225	0.000	0.02
1.005	S105	1440 minute 2 year Winter I+0%	32.380	30.340	-0.130	0.000	0.04
8.000	S800	1440 minute 2 year Winter I+0%	32.400	31.260	-0.215	0.000	0.01
1.006	S106	1440 minute 2 year Winter I+0%	32.380	30.337	0.177	0.000	0.45
1.007	FW105	1440 minute 2 year Winter I+0%	32.380	30.018	-0.117	0.000	0.11

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		1.5	OK
1.005	S105		4.4	OK
8.000	S800		0.7	OK
1.006	S106		4.9	SURCHARGED
1.007	FW105		4.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	15 minute 5 year Winter I+0%	32.600	31.282	-0.118	0.000	0.10	
1.001	S101	15 minute 5 year Winter I+0%	32.400	31.042	-0.168	0.000	0.15	
1.002	S102	15 minute 5 year Winter I+0%	32.600	30.815	-0.160	0.000	0.18	
2.000	S200	15 minute 5 year Winter I+0%	32.600	31.314	-0.086	0.000	0.37	
2.001	S201	15 minute 5 year Winter I+0%	32.500	30.878	-0.152	0.000	0.23	
1.003	S103	15 minute 5 year Winter I+0%	32.380	30.458	-1.143	0.000	0.01	
3.000	S300	15 minute 5 year Winter I+0%	32.600	31.359	-0.191	0.000	0.28	
4.000	S400	15 minute 5 year Winter I+0%	32.600	31.348	-0.127	0.000	0.38	
3.001	S301	15 minute 5 year Winter I+0%	32.600	30.615	-0.230	0.000	0.31	
1.004	S104	15 minute 5 year Winter I+0%	32.380	30.458	-0.963	0.000	0.01	
5.000	S500	15 minute 5 year Winter I+0%	32.600	31.322	-0.078	0.000	0.46	
5.001	S501	15 minute 5 year Winter I+0%	32.600	30.753	-0.152	0.000	0.23	
6.000	S600	15 minute 5 year Winter I+0%	32.600	31.288	-0.112	0.000	0.15	
6.001	S601	15 minute 5 year Winter I+0%	32.600	31.108	-0.107	0.000	0.18	
6.002	S602	15 minute 5 year Winter I+0%	32.600	30.895	-0.160	0.000	0.18	
5.002	S502	15 minute 5 year Winter I+0%	32.600	30.542	-0.168	0.000	0.40	
5.003	S503	15 minute 5 year Winter I+0%	32.500	30.476	-0.184	0.000	0.32	
7.000	S700	15 minute 5 year Winter I+0%	32.600	31.295	-0.105	0.000	0.19	
7.001	S701	15 minute 5 year Winter I+0%	32.600	31.177	-0.123	0.000	0.07	

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Summary Wizard of 15 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.9	OK
1.001	S101	7.6	OK
1.002	S102	9.4	OK
2.000	S200	7.1	OK
2.001	S201	12.8	OK
1.003	S103	31.3	OK
3.000	S300	30.2	OK
4.000	S400	23.9	OK
3.001	S301	54.4	OK
1.004	S104	61.1	OK
5.000	S500	8.6	OK
5.001	S501	10.7	OK
6.000	S600	3.8	OK
6.001	S601	4.4	OK
6.002	S602	9.9	OK
5.002	S502	24.8	OK
5.003	S503	24.8	OK
7.000	S700	3.4	OK
7.001	S701	3.3	OK

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Summary Wizard of 15 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	15 minute 5 year Winter I+0%	32.550	30.459	-0.106	0.000	0.40	
1.005	S105	15 minute 5 year Winter I+0%	32.380	30.458	-0.012	0.000	0.05	
8.000	S800	15 minute 5 year Winter I+0%	32.400	31.320	-0.155	0.000	0.21	
1.006	S106	15 minute 5 year Winter I+0%	32.380	30.449	0.289	0.000	0.51	
1.007	FW105	15 minute 5 year Winter I+0%	32.380	30.020	-0.115	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	30.8	OK
1.005	S105	5.5	OK
8.000	S800	14.9	OK
1.006	S106	5.6	SURCHARGED
1.007	FW105	5.6	OK

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Summary Wizard of 30 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	30 minute 5 year Winter I+0%	32.600	31.279	-0.121	0.000	0.08	
1.001	S101	30 minute 5 year Winter I+0%	32.400	31.037	-0.173	0.000	0.12	
1.002	S102	30 minute 5 year Winter I+0%	32.600	30.809	-0.166	0.000	0.15	
2.000	S200	30 minute 5 year Winter I+0%	32.600	31.305	-0.095	0.000	0.29	
2.001	S201	30 minute 5 year Winter I+0%	32.500	30.870	-0.160	0.000	0.19	
1.003	S103	30 minute 5 year Winter I+0%	32.380	30.517	-1.084	0.000	0.01	
3.000	S300	30 minute 5 year Winter I+0%	32.600	31.345	-0.205	0.000	0.22	
4.000	S400	30 minute 5 year Winter I+0%	32.600	31.335	-0.140	0.000	0.30	
3.001	S301	30 minute 5 year Winter I+0%	32.600	30.596	-0.249	0.000	0.25	
1.004	S104	30 minute 5 year Winter I+0%	32.380	30.517	-0.904	0.000	0.01	
5.000	S500	30 minute 5 year Winter I+0%	32.600	31.312	-0.088	0.000	0.36	
5.001	S501	30 minute 5 year Winter I+0%	32.600	30.744	-0.161	0.000	0.18	
6.000	S600	30 minute 5 year Winter I+0%	32.600	31.284	-0.116	0.000	0.11	
6.001	S601	30 minute 5 year Winter I+0%	32.600	31.102	-0.113	0.000	0.14	
6.002	S602	30 minute 5 year Winter I+0%	32.600	30.888	-0.167	0.000	0.15	
5.002	S502	30 minute 5 year Winter I+0%	32.600	30.529	-0.181	0.000	0.33	
5.003	S503	30 minute 5 year Winter I+0%	32.500	30.519	-0.141	0.000	0.26	
7.000	S700	30 minute 5 year Winter I+0%	32.600	31.289	-0.111	0.000	0.15	
7.001	S701	30 minute 5 year Winter I+0%	32.600	31.173	-0.127	0.000	0.06	

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Summary Wizard of 30 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.5	OK
1.001	S101	6.4	OK
1.002	S102	7.9	OK
2.000	S200	5.6	OK
2.001	S201	10.5	OK
1.003	S103	22.1	OK
3.000	S300	23.9	OK
4.000	S400	18.9	OK
3.001	S301	42.8	OK
1.004	S104	40.2	OK
5.000	S500	6.7	OK
5.001	S501	8.5	OK
6.000	S600	3.0	OK
6.001	S601	3.5	OK
6.002	S602	8.2	OK
5.002	S502	20.3	OK
5.003	S503	20.3	OK
7.000	S700	2.6	OK
7.001	S701	2.6	OK

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Summary Wizard of 30 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	30 minute 5 year Winter I+0%	32.550	30.518	-0.047	0.000	0.32	
1.005	S105	30 minute 5 year Winter I+0%	32.380	30.517	0.047	0.000	0.05	
8.000	S800	30 minute 5 year Winter I+0%	32.400	31.311	-0.164	0.000	0.17	
1.006	S106	30 minute 5 year Winter I+0%	32.380	30.514	0.354	0.000	0.55	
1.007	FW105	30 minute 5 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	24.4	OK
1.005	S105	5.9	SURCHARGED
8.000	S800	11.8	OK
1.006	S106	5.9	SURCHARGED
1.007	FW105	5.9	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
1.000	S100	60 minute 5 year Winter I+0%	32.600	31.273	-0.127	0.000	0.05	
1.001	S101	60 minute 5 year Winter I+0%	32.400	31.029	-0.181	0.000	0.08	
1.002	S102	60 minute 5 year Winter I+0%	32.600	30.799	-0.176	0.000	0.11	
2.000	S200	60 minute 5 year Winter I+0%	32.600	31.295	-0.105	0.000	0.20	
2.001	S201	60 minute 5 year Winter I+0%	32.500	30.858	-0.172	0.000	0.13	
1.003	S103	60 minute 5 year Winter I+0%	32.380	30.568	-1.033	0.000	0.00	
3.000	S300	60 minute 5 year Winter I+0%	32.600	31.326	-0.224	0.000	0.15	
4.000	S400	60 minute 5 year Winter I+0%	32.600	31.319	-0.156	0.000	0.20	
3.001	S301	60 minute 5 year Winter I+0%	32.600	30.572	-0.273	0.000	0.17	
1.004	S104	60 minute 5 year Winter I+0%	32.380	30.568	-0.853	0.000	0.00	
5.000	S500	60 minute 5 year Winter I+0%	32.600	31.300	-0.100	0.000	0.24	
5.001	S501	60 minute 5 year Winter I+0%	32.600	30.732	-0.173	0.000	0.12	
6.000	S600	60 minute 5 year Winter I+0%	32.600	31.277	-0.123	0.000	0.08	
6.001	S601	60 minute 5 year Winter I+0%	32.600	31.096	-0.119	0.000	0.09	
6.002	S602	60 minute 5 year Winter I+0%	32.600	30.878	-0.177	0.000	0.11	
5.002	S502	60 minute 5 year Winter I+0%	32.600	30.571	-0.139	0.000	0.23	
5.003	S503	60 minute 5 year Winter I+0%	32.500	30.570	-0.090	0.000	0.18	
7.000	S700	60 minute 5 year Winter I+0%	32.600	31.282	-0.118	0.000	0.10	
7.001	S701	60 minute 5 year Winter I+0%	32.600	31.169	-0.131	0.000	0.04	

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Summary Wizard of 60 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S100	1.0	OK
1.001	S101	4.4	OK
1.002	S102	5.5	OK
2.000	S200	3.8	OK
2.001	S201	7.2	OK
1.003	S103	13.1	OK
3.000	S300	16.2	OK
4.000	S400	12.7	OK
3.001	S301	28.9	OK
1.004	S104	24.9	OK
5.000	S500	4.5	OK
5.001	S501	5.7	OK
6.000	S600	2.0	OK
6.001	S601	2.4	OK
6.002	S602	5.7	OK
5.002	S502	14.0	OK
5.003	S503	13.9	OK
7.000	S700	1.8	OK
7.001	S701	1.8	OK

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Summary Wizard of 60 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)
5.004	S504	60 minute 5 year Winter I+0%	32.550	30.569	0.004	0.000	0.21	
1.005	S105	60 minute 5 year Winter I+0%	32.380	30.568	0.098	0.000	0.05	
8.000	S800	60 minute 5 year Winter I+0%	32.400	31.300	-0.175	0.000	0.11	
1.006	S106	60 minute 5 year Winter I+0%	32.380	30.565	0.405	0.000	0.57	
1.007	FW105	60 minute 5 year Winter I+0%	32.380	30.022	-0.113	0.000	0.14	

PN	US/MH Name	Pipe Flow (l/s)	Status
5.004	S504	16.4	SURCHARGED
1.005	S105	6.1	SURCHARGED
8.000	S800	7.9	OK
1.006	S106	6.2	SURCHARGED
1.007	FW105	6.2	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 5 year Winter I+0%	32.600	31.268	-0.132	0.000	0.03
1.001	S101	120 minute 5 year Winter I+0%	32.400	31.019	-0.191	0.000	0.05
1.002	S102	120 minute 5 year Winter I+0%	32.600	30.788	-0.187	0.000	0.07
2.000	S200	120 minute 5 year Winter I+0%	32.600	31.285	-0.115	0.000	0.12
2.001	S201	120 minute 5 year Winter I+0%	32.500	30.847	-0.183	0.000	0.08
1.003	S103	120 minute 5 year Winter I+0%	32.380	30.599	-1.002	0.000	0.00
3.000	S300	120 minute 5 year Winter I+0%	32.600	31.311	-0.239	0.000	0.09
4.000	S400	120 minute 5 year Winter I+0%	32.600	31.303	-0.172	0.000	0.13
3.001	S301	120 minute 5 year Winter I+0%	32.600	30.601	-0.244	0.000	0.11
1.004	S104	120 minute 5 year Winter I+0%	32.380	30.599	-0.822	0.000	0.00
5.000	S500	120 minute 5 year Winter I+0%	32.600	31.289	-0.111	0.000	0.15
5.001	S501	120 minute 5 year Winter I+0%	32.600	30.721	-0.184	0.000	0.08
6.000	S600	120 minute 5 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
6.001	S601	120 minute 5 year Winter I+0%	32.600	31.089	-0.126	0.000	0.06
6.002	S602	120 minute 5 year Winter I+0%	32.600	30.868	-0.187	0.000	0.07
5.002	S502	120 minute 5 year Winter I+0%	32.600	30.601	-0.109	0.000	0.14
5.003	S503	120 minute 5 year Winter I+0%	32.500	30.601	-0.059	0.000	0.11
7.000	S700	120 minute 5 year Winter I+0%	32.600	31.275	-0.125	0.000	0.06
7.001	S701	120 minute 5 year Winter I+0%	32.600	31.166	-0.134	0.000	0.02

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Summary Wizard of 120 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.8	OK
1.002	S102		3.5	OK
2.000	S200		2.4	OK
2.001	S201		4.6	OK
1.003	S103		7.9	OK
3.000	S300		10.2	OK
4.000	S400		8.0	OK
3.001	S301		18.2	OK
1.004	S104		15.0	OK
5.000	S500		2.8	OK
5.001	S501		3.6	OK
6.000	S600		1.3	OK
6.001	S601		1.5	OK
6.002	S602		3.6	OK
5.002	S502		8.9	OK
5.003	S503		8.7	OK
7.000	S700		1.1	OK
7.001	S701		1.1	OK

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Summary Wizard of 120 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 5 year Winter I+0%	32.550	30.600	0.035	0.000	0.14
1.005	S105	120 minute 5 year Winter I+0%	32.380	30.599	0.129	0.000	0.05
8.000	S800	120 minute 5 year Winter I+0%	32.400	31.289	-0.186	0.000	0.07
1.006	S106	120 minute 5 year Winter I+0%	32.380	30.596	0.436	0.000	0.59
1.007	FW105	120 minute 5 year Winter I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		10.4	SURCHARGED
1.005	S105		6.3	SURCHARGED
8.000	S800		5.0	OK
1.006	S106		6.4	SURCHARGED
1.007	FW105		6.4	OK

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Summary Wizard of 180 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	0.000
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	2
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	0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 5 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
1.001	S101	180 minute 5 year Winter I+0%	32.400	31.014	-0.196	0.000	0.04
1.002	S102	180 minute 5 year Winter I+0%	32.600	30.783	-0.192	0.000	0.05
2.000	S200	180 minute 5 year Winter I+0%	32.600	31.281	-0.119	0.000	0.09
2.001	S201	180 minute 5 year Winter I+0%	32.500	30.841	-0.189	0.000	0.06
1.003	S103	180 minute 5 year Winter I+0%	32.380	30.601	-1.000	0.000	0.00
3.000	S300	180 minute 5 year Winter I+0%	32.600	31.302	-0.248	0.000	0.07
4.000	S400	180 minute 5 year Winter I+0%	32.600	31.297	-0.178	0.000	0.10
3.001	S301	180 minute 5 year Winter I+0%	32.600	30.603	-0.242	0.000	0.08
1.004	S104	180 minute 5 year Winter I+0%	32.380	30.601	-0.820	0.000	0.00
5.000	S500	180 minute 5 year Winter I+0%	32.600	31.284	-0.116	0.000	0.11
5.001	S501	180 minute 5 year Winter I+0%	32.600	30.715	-0.190	0.000	0.06
6.000	S600	180 minute 5 year Winter I+0%	32.600	31.268	-0.132	0.000	0.04
6.001	S601	180 minute 5 year Winter I+0%	32.600	31.085	-0.130	0.000	0.05
6.002	S602	180 minute 5 year Winter I+0%	32.600	30.862	-0.193	0.000	0.05
5.002	S502	180 minute 5 year Winter I+0%	32.600	30.603	-0.107	0.000	0.11
5.003	S503	180 minute 5 year Winter I+0%	32.500	30.603	-0.057	0.000	0.09
7.000	S700	180 minute 5 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
7.001	S701	180 minute 5 year Winter I+0%	32.600	31.163	-0.137	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	OK
1.001	S101		2.1	OK
1.002	S102		2.7	OK
2.000	S200		1.8	OK
2.001	S201		3.4	OK
1.003	S103		6.1	OK
3.000	S300		7.7	OK
4.000	S400		6.0	OK
3.001	S301		13.7	OK
1.004	S104		11.5	OK
5.000	S500		2.1	OK
5.001	S501		2.7	OK
6.000	S600		1.0	OK
6.001	S601		1.1	OK
6.002	S602		2.7	OK
5.002	S502		6.7	OK
5.003	S503		6.6	OK
7.000	S700		0.8	OK
7.001	S701		0.8	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 5 year Winter I+0%	32.550	30.602	0.037	0.000	0.10
1.005	S105	180 minute 5 year Winter I+0%	32.380	30.601	0.131	0.000	0.05
8.000	S800	180 minute 5 year Winter I+0%	32.400	31.283	-0.192	0.000	0.05
1.006	S106	180 minute 5 year Winter I+0%	32.380	30.598	0.438	0.000	0.59
1.007	FW105	180 minute 5 year Winter I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.9	SURCHARGED
1.005	S105		6.3	SURCHARGED
8.000	S800		3.8	OK
1.006	S106		6.4	SURCHARGED
1.007	FW105		6.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 5 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
1.001	S101	240 minute 5 year Winter I+0%	32.400	31.012	-0.198	0.000	0.03
1.002	S102	240 minute 5 year Winter I+0%	32.600	30.780	-0.195	0.000	0.04
2.000	S200	240 minute 5 year Winter I+0%	32.600	31.277	-0.123	0.000	0.08
2.001	S201	240 minute 5 year Winter I+0%	32.500	30.837	-0.193	0.000	0.05
1.003	S103	240 minute 5 year Winter I+0%	32.380	30.598	-1.003	0.000	0.00
3.000	S300	240 minute 5 year Winter I+0%	32.600	31.296	-0.254	0.000	0.06
4.000	S400	240 minute 5 year Winter I+0%	32.600	31.292	-0.183	0.000	0.08
3.001	S301	240 minute 5 year Winter I+0%	32.600	30.600	-0.245	0.000	0.06
1.004	S104	240 minute 5 year Winter I+0%	32.380	30.598	-0.823	0.000	0.00
5.000	S500	240 minute 5 year Winter I+0%	32.600	31.281	-0.119	0.000	0.09
5.001	S501	240 minute 5 year Winter I+0%	32.600	30.711	-0.194	0.000	0.05
6.000	S600	240 minute 5 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
6.001	S601	240 minute 5 year Winter I+0%	32.600	31.083	-0.132	0.000	0.04
6.002	S602	240 minute 5 year Winter I+0%	32.600	30.859	-0.196	0.000	0.04
5.002	S502	240 minute 5 year Winter I+0%	32.600	30.600	-0.110	0.000	0.09
5.003	S503	240 minute 5 year Winter I+0%	32.500	30.600	-0.060	0.000	0.07
7.000	S700	240 minute 5 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
7.001	S701	240 minute 5 year Winter I+0%	32.600	31.160	-0.140	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.7	OK
1.002	S102		2.2	OK
2.000	S200		1.5	OK
2.001	S201		2.8	OK
1.003	S103		5.2	OK
3.000	S300		6.3	OK
4.000	S400		4.9	OK
3.001	S301		11.2	OK
1.004	S104		9.7	OK
5.000	S500		1.7	OK
5.001	S501		2.2	OK
6.000	S600		0.8	OK
6.001	S601		0.9	OK
6.002	S602		2.2	OK
5.002	S502		5.5	OK
5.003	S503		5.4	OK
7.000	S700		0.7	OK
7.001	S701		0.7	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	240 minute 5 year Winter I+0%	32.550	30.599	0.034	0.000	0.08
1.005	S105	240 minute 5 year Winter I+0%	32.380	30.598	0.128	0.000	0.05
8.000	S800	240 minute 5 year Winter I+0%	32.400	31.280	-0.195	0.000	0.04
1.006	S106	240 minute 5 year Winter I+0%	32.380	30.595	0.435	0.000	0.59
1.007	FW105	240 minute 5 year Winter I+0%	32.380	30.023	-0.112	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.4	SURCHARGED
1.005	S105		6.2	SURCHARGED
8.000	S800		3.1	OK
1.006	S106		6.4	SURCHARGED
1.007	FW105		6.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 5 year Winter I+0%	32.600	31.261	-0.139	0.000	0.02
1.001	S101	360 minute 5 year Winter I+0%	32.400	31.009	-0.201	0.000	0.02
1.002	S102	360 minute 5 year Winter I+0%	32.600	30.776	-0.199	0.000	0.03
2.000	S200	360 minute 5 year Winter I+0%	32.600	31.273	-0.127	0.000	0.06
2.001	S201	360 minute 5 year Winter I+0%	32.500	30.833	-0.197	0.000	0.04
1.003	S103	360 minute 5 year Winter I+0%	32.380	30.582	-1.019	0.000	0.00
3.000	S300	360 minute 5 year Winter I+0%	32.600	31.290	-0.260	0.000	0.04
4.000	S400	360 minute 5 year Winter I+0%	32.600	31.285	-0.190	0.000	0.06
3.001	S301	360 minute 5 year Winter I+0%	32.600	30.584	-0.261	0.000	0.05
1.004	S104	360 minute 5 year Winter I+0%	32.380	30.583	-0.838	0.000	0.00
5.000	S500	360 minute 5 year Winter I+0%	32.600	31.276	-0.124	0.000	0.07
5.001	S501	360 minute 5 year Winter I+0%	32.600	30.707	-0.198	0.000	0.04
6.000	S600	360 minute 5 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
6.001	S601	360 minute 5 year Winter I+0%	32.600	31.081	-0.134	0.000	0.03
6.002	S602	360 minute 5 year Winter I+0%	32.600	30.856	-0.199	0.000	0.03
5.002	S502	360 minute 5 year Winter I+0%	32.600	30.584	-0.126	0.000	0.07
5.003	S503	360 minute 5 year Winter I+0%	32.500	30.584	-0.076	0.000	0.05
7.000	S700	360 minute 5 year Winter I+0%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	360 minute 5 year Winter I+0%	32.600	31.158	-0.142	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.3	OK
1.002	S102		1.6	OK
2.000	S200		1.1	OK
2.001	S201		2.1	OK
1.003	S103		4.3	OK
3.000	S300		4.7	OK
4.000	S400		3.7	OK
3.001	S301		8.3	OK
1.004	S104		7.9	OK
5.000	S500		1.3	OK
5.001	S501		1.7	OK
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.7	OK
5.002	S502		4.1	OK
5.003	S503		4.0	OK
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	360 minute 5 year Winter I+0%	32.550	30.583	0.018	0.000	0.06
1.005	S105	360 minute 5 year Winter I+0%	32.380	30.582	0.112	0.000	0.05
8.000	S800	360 minute 5 year Winter I+0%	32.400	31.276	-0.199	0.000	0.03
1.006	S106	360 minute 5 year Winter I+0%	32.380	30.579	0.419	0.000	0.58
1.007	FW105	360 minute 5 year Winter I+0%	32.380	30.022	-0.113	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.8	SURCHARGED
1.005	S105		5.9	SURCHARGED
8.000	S800		2.3	OK
1.006	S106		6.3	SURCHARGED
1.007	FW105		6.3	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 5 year Winter I+0%	32.600	31.259	-0.141	0.000	0.01
1.001	S101	480 minute 5 year Winter I+0%	32.400	31.007	-0.203	0.000	0.02
1.002	S102	480 minute 5 year Winter I+0%	32.600	30.774	-0.201	0.000	0.03
2.000	S200	480 minute 5 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
2.001	S201	480 minute 5 year Winter I+0%	32.500	30.831	-0.199	0.000	0.03
1.003	S103	480 minute 5 year Winter I+0%	32.380	30.562	-1.039	0.000	0.00
3.000	S300	480 minute 5 year Winter I+0%	32.600	31.286	-0.264	0.000	0.03
4.000	S400	480 minute 5 year Winter I+0%	32.600	31.281	-0.194	0.000	0.05
3.001	S301	480 minute 5 year Winter I+0%	32.600	30.563	-0.282	0.000	0.04
1.004	S104	480 minute 5 year Winter I+0%	32.380	30.562	-0.859	0.000	0.00
5.000	S500	480 minute 5 year Winter I+0%	32.600	31.273	-0.127	0.000	0.06
5.001	S501	480 minute 5 year Winter I+0%	32.600	30.705	-0.200	0.000	0.03
6.000	S600	480 minute 5 year Winter I+0%	32.600	31.263	-0.137	0.000	0.02
6.001	S601	480 minute 5 year Winter I+0%	32.600	31.080	-0.135	0.000	0.02
6.002	S602	480 minute 5 year Winter I+0%	32.600	30.854	-0.201	0.000	0.03
5.002	S502	480 minute 5 year Winter I+0%	32.600	30.565	-0.145	0.000	0.05
5.003	S503	480 minute 5 year Winter I+0%	32.500	30.565	-0.095	0.000	0.04
7.000	S700	480 minute 5 year Winter I+0%	32.600	31.266	-0.134	0.000	0.02
7.001	S701	480 minute 5 year Winter I+0%	32.600	31.156	-0.144	0.000	0.01

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Summary Wizard of 480 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		1.1	OK
1.002	S102		1.3	OK
2.000	S200		0.9	OK
2.001	S201		1.7	OK
1.003	S103		3.8	OK
3.000	S300		3.8	OK
4.000	S400		3.0	OK
3.001	S301		6.8	OK
1.004	S104		7.0	OK
5.000	S500		1.1	OK
5.001	S501		1.4	OK
6.000	S600		0.5	OK
6.001	S601		0.6	OK
6.002	S602		1.4	OK
5.002	S502		3.3	OK
5.003	S503		3.3	OK
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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Summary Wizard of 480 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 5 year Winter I+0%	32.550	30.564	-0.001	0.000	0.05
1.005	S105	480 minute 5 year Winter I+0%	32.380	30.562	0.092	0.000	0.05
8.000	S800	480 minute 5 year Winter I+0%	32.400	31.274	-0.201	0.000	0.03
1.006	S106	480 minute 5 year Winter I+0%	32.380	30.559	0.399	0.000	0.57
1.007	FW105	480 minute 5 year Winter I+0%	32.380	30.022	-0.113	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.9	OK
1.005	S105		5.7	SURCHARGED
8.000	S800		1.9	OK
1.006	S106		6.2	SURCHARGED
1.007	FW105		6.2	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 5 year Winter I+0%	32.600	31.258	-0.142	0.000	0.01
1.001	S101	600 minute 5 year Winter I+0%	32.400	31.003	-0.207	0.000	0.02
1.002	S102	600 minute 5 year Winter I+0%	32.600	30.773	-0.202	0.000	0.02
2.000	S200	600 minute 5 year Winter I+0%	32.600	31.269	-0.131	0.000	0.04
2.001	S201	600 minute 5 year Winter I+0%	32.500	30.829	-0.201	0.000	0.03
1.003	S103	600 minute 5 year Winter I+0%	32.380	30.542	-1.059	0.000	0.00
3.000	S300	600 minute 5 year Winter I+0%	32.600	31.284	-0.266	0.000	0.03
4.000	S400	600 minute 5 year Winter I+0%	32.600	31.279	-0.196	0.000	0.04
3.001	S301	600 minute 5 year Winter I+0%	32.600	30.544	-0.301	0.000	0.03
1.004	S104	600 minute 5 year Winter I+0%	32.380	30.542	-0.879	0.000	0.00
5.000	S500	600 minute 5 year Winter I+0%	32.600	31.271	-0.129	0.000	0.05
5.001	S501	600 minute 5 year Winter I+0%	32.600	30.704	-0.201	0.000	0.02
6.000	S600	600 minute 5 year Winter I+0%	32.600	31.261	-0.139	0.000	0.02
6.001	S601	600 minute 5 year Winter I+0%	32.600	31.078	-0.137	0.000	0.02
6.002	S602	600 minute 5 year Winter I+0%	32.600	30.853	-0.202	0.000	0.02
5.002	S502	600 minute 5 year Winter I+0%	32.600	30.544	-0.166	0.000	0.05
5.003	S503	600 minute 5 year Winter I+0%	32.500	30.543	-0.117	0.000	0.04
7.000	S700	600 minute 5 year Winter I+0%	32.600	31.264	-0.136	0.000	0.02
7.001	S701	600 minute 5 year Winter I+0%	32.600	31.155	-0.145	0.000	0.01

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Summary Wizard of 600 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.9	OK
1.002	S102		1.1	OK
2.000	S200		0.7	OK
2.001	S201		1.4	OK
1.003	S103		3.4	OK
3.000	S300		3.2	OK
4.000	S400		2.5	OK
3.001	S301		5.7	OK
1.004	S104		6.3	OK
5.000	S500		0.9	OK
5.001	S501		1.1	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.1	OK
5.002	S502		2.8	OK
5.003	S503		2.8	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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Summary Wizard of 600 minute 5 year Winter I+0% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 5 year Winter I+0%	32.550	30.543	-0.022	0.000	0.04
1.005	S105	600 minute 5 year Winter I+0%	32.380	30.542	0.072	0.000	0.05
8.000	S800	600 minute 5 year Winter I+0%	32.400	31.273	-0.202	0.000	0.02
1.006	S106	600 minute 5 year Winter I+0%	32.380	30.539	0.379	0.000	0.56
1.007	FW105	600 minute 5 year Winter I+0%	32.380	30.022	-0.113	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.4	OK
1.005	S105		5.6	SURCHARGED
8.000	S800		1.6	OK
1.006	S106		6.1	SURCHARGED
1.007	FW105		6.1	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 5 year Winter I+0%	32.600	31.257	-0.143	0.000	0.01
1.001	S101	720 minute 5 year Winter I+0%	32.400	31.001	-0.209	0.000	0.02
1.002	S102	720 minute 5 year Winter I+0%	32.600	30.770	-0.205	0.000	0.02
2.000	S200	720 minute 5 year Winter I+0%	32.600	31.268	-0.132	0.000	0.03
2.001	S201	720 minute 5 year Winter I+0%	32.500	30.828	-0.202	0.000	0.02
1.003	S103	720 minute 5 year Winter I+0%	32.380	30.522	-1.079	0.000	0.00
3.000	S300	720 minute 5 year Winter I+0%	32.600	31.282	-0.268	0.000	0.03
4.000	S400	720 minute 5 year Winter I+0%	32.600	31.277	-0.198	0.000	0.04
3.001	S301	720 minute 5 year Winter I+0%	32.600	30.526	-0.319	0.000	0.03
1.004	S104	720 minute 5 year Winter I+0%	32.380	30.522	-0.899	0.000	0.00
5.000	S500	720 minute 5 year Winter I+0%	32.600	31.270	-0.130	0.000	0.04
5.001	S501	720 minute 5 year Winter I+0%	32.600	30.703	-0.202	0.000	0.02
6.000	S600	720 minute 5 year Winter I+0%	32.600	31.259	-0.141	0.000	0.01
6.001	S601	720 minute 5 year Winter I+0%	32.600	31.077	-0.138	0.000	0.02
6.002	S602	720 minute 5 year Winter I+0%	32.600	30.850	-0.205	0.000	0.02
5.002	S502	720 minute 5 year Winter I+0%	32.600	30.524	-0.186	0.000	0.04
5.003	S503	720 minute 5 year Winter I+0%	32.500	30.523	-0.137	0.000	0.03
7.000	S700	720 minute 5 year Winter I+0%	32.600	31.263	-0.137	0.000	0.02
7.001	S701	720 minute 5 year Winter I+0%	32.600	31.155	-0.145	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.8	OK
1.002	S102		1.0	OK
2.000	S200		0.7	OK
2.001	S201		1.3	OK
1.003	S103		3.2	OK
3.000	S300		2.8	OK
4.000	S400		2.2	OK
3.001	S301		5.0	OK
1.004	S104		5.9	OK
5.000	S500		0.8	OK
5.001	S501		1.0	OK
6.000	S600		0.3	OK
6.001	S601		0.4	OK
6.002	S602		1.0	OK
5.002	S502		2.5	OK
5.003	S503		2.4	OK
7.000	S700		0.3	OK
7.001	S701		0.3	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 5 year Winter I+0%	32.550	30.523	-0.042	0.000	0.04
1.005	S105	720 minute 5 year Winter I+0%	32.380	30.522	0.052	0.000	0.05
8.000	S800	720 minute 5 year Winter I+0%	32.400	31.271	-0.204	0.000	0.02
1.006	S106	720 minute 5 year Winter I+0%	32.380	30.519	0.359	0.000	0.55
1.007	FW105	720 minute 5 year Winter I+0%	32.380	30.021	-0.114	0.000	0.14

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.9	OK
1.005	S105		5.5	SURCHARGED
8.000	S800		1.4	OK
1.006	S106		6.0	SURCHARGED
1.007	FW105		6.0	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 5 year Winter I+0%	32.600	31.255	-0.145	0.000	0.01
1.001	S101	960 minute 5 year Winter I+0%	32.400	30.998	-0.212	0.000	0.01
1.002	S102	960 minute 5 year Winter I+0%	32.600	30.766	-0.209	0.000	0.02
2.000	S200	960 minute 5 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
2.001	S201	960 minute 5 year Winter I+0%	32.500	30.824	-0.206	0.000	0.02
1.003	S103	960 minute 5 year Winter I+0%	32.380	30.483	-1.118	0.000	0.00
3.000	S300	960 minute 5 year Winter I+0%	32.600	31.280	-0.270	0.000	0.02
4.000	S400	960 minute 5 year Winter I+0%	32.600	31.275	-0.200	0.000	0.03
3.001	S301	960 minute 5 year Winter I+0%	32.600	30.510	-0.335	0.000	0.02
1.004	S104	960 minute 5 year Winter I+0%	32.380	30.483	-0.938	0.000	0.00
5.000	S500	960 minute 5 year Winter I+0%	32.600	31.268	-0.132	0.000	0.03
5.001	S501	960 minute 5 year Winter I+0%	32.600	30.698	-0.207	0.000	0.02
6.000	S600	960 minute 5 year Winter I+0%	32.600	31.258	-0.142	0.000	0.01
6.001	S601	960 minute 5 year Winter I+0%	32.600	31.075	-0.140	0.000	0.01
6.002	S602	960 minute 5 year Winter I+0%	32.600	30.846	-0.209	0.000	0.02
5.002	S502	960 minute 5 year Winter I+0%	32.600	30.485	-0.225	0.000	0.03
5.003	S503	960 minute 5 year Winter I+0%	32.500	30.484	-0.176	0.000	0.03
7.000	S700	960 minute 5 year Winter I+0%	32.600	31.260	-0.140	0.000	0.01
7.001	S701	960 minute 5 year Winter I+0%	32.600	31.154	-0.146	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.6	OK
1.002	S102		0.8	OK
2.000	S200		0.5	OK
2.001	S201		1.0	OK
1.003	S103		2.7	OK
3.000	S300		2.3	OK
4.000	S400		1.8	OK
3.001	S301		4.1	OK
1.004	S104		5.2	OK
5.000	S500		0.6	OK
5.001	S501		0.8	OK
6.000	S600		0.3	OK
6.001	S601		0.3	OK
6.002	S602		0.8	OK
5.002	S502		2.0	OK
5.003	S503		2.0	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 5 year Winter I+0%	32.550	30.484	-0.081	0.000	0.03
1.005	S105	960 minute 5 year Winter I+0%	32.380	30.483	0.013	0.000	0.05
8.000	S800	960 minute 5 year Winter I+0%	32.400	31.267	-0.208	0.000	0.02
1.006	S106	960 minute 5 year Winter I+0%	32.380	30.480	0.320	0.000	0.53
1.007	FW105	960 minute 5 year Winter I+0%	32.380	30.021	-0.114	0.000	0.13

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		2.4	OK
1.005	S105		5.3	SURCHARGED
8.000	S800		1.1	OK
1.006	S106		5.7	SURCHARGED
1.007	FW105		5.7	OK

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Summary Wizard of 1440 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 5 year Winter I+0%	32.600	31.254	-0.146	0.000	0.01
1.001	S101	1440 minute 5 year Winter I+0%	32.400	30.995	-0.215	0.000	0.01
1.002	S102	1440 minute 5 year Winter I+0%	32.600	30.762	-0.213	0.000	0.01
2.000	S200	1440 minute 5 year Winter I+0%	32.600	31.265	-0.135	0.000	0.02
2.001	S201	1440 minute 5 year Winter I+0%	32.500	30.819	-0.211	0.000	0.01
1.003	S103	1440 minute 5 year Winter I+0%	32.380	30.415	-1.186	0.000	0.00
3.000	S300	1440 minute 5 year Winter I+0%	32.600	31.272	-0.278	0.000	0.02
4.000	S400	1440 minute 5 year Winter I+0%	32.600	31.273	-0.202	0.000	0.02
3.001	S301	1440 minute 5 year Winter I+0%	32.600	30.501	-0.344	0.000	0.02
1.004	S104	1440 minute 5 year Winter I+0%	32.380	30.415	-1.006	0.000	0.00
5.000	S500	1440 minute 5 year Winter I+0%	32.600	31.266	-0.134	0.000	0.03
5.001	S501	1440 minute 5 year Winter I+0%	32.600	30.694	-0.211	0.000	0.01
6.000	S600	1440 minute 5 year Winter I+0%	32.600	31.256	-0.144	0.000	0.01
6.001	S601	1440 minute 5 year Winter I+0%	32.600	31.072	-0.143	0.000	0.01
6.002	S602	1440 minute 5 year Winter I+0%	32.600	30.842	-0.213	0.000	0.01
5.002	S502	1440 minute 5 year Winter I+0%	32.600	30.441	-0.269	0.000	0.02
5.003	S503	1440 minute 5 year Winter I+0%	32.500	30.416	-0.244	0.000	0.02
7.000	S700	1440 minute 5 year Winter I+0%	32.600	31.258	-0.142	0.000	0.01
7.001	S701	1440 minute 5 year Winter I+0%	32.600	31.153	-0.147	0.000	0.00

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.1	OK
1.001	S101		0.5	OK
1.002	S102		0.6	OK
2.000	S200		0.4	OK
2.001	S201		0.8	OK
1.003	S103		2.2	OK
3.000	S300		1.7	OK
4.000	S400		1.3	OK
3.001	S301		3.0	OK
1.004	S104		4.5	OK
5.000	S500		0.5	OK
5.001	S501		0.6	OK
6.000	S600		0.2	OK
6.001	S601		0.3	OK
6.002	S602		0.6	OK
5.002	S502		1.5	OK
5.003	S503		1.5	OK
7.000	S700		0.2	OK
7.001	S701		0.2	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 5 year Winter I+0%	32.550	30.416	-0.149	0.000	0.02
1.005	S105	1440 minute 5 year Winter I+0%	32.380	30.415	-0.055	0.000	0.04
8.000	S800	1440 minute 5 year Winter I+0%	32.400	31.262	-0.213	0.000	0.01
1.006	S106	1440 minute 5 year Winter I+0%	32.380	30.412	0.252	0.000	0.49
1.007	FW105	1440 minute 5 year Winter I+0%	32.380	30.020	-0.115	0.000	0.12

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		1.8	OK
1.005	S105		4.9	OK
8.000	S800		0.8	OK
1.006	S106		5.4	SURCHARGED
1.007	FW105		5.4	OK

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Summary Wizard of 15 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	15 minute 30 year Winter I+40%	32.600	31.297	-0.103	0.000	0.21
1.001	S101	15 minute 30 year Winter I+40%	32.400	31.078	-0.132	0.000	0.36
1.002	S102	15 minute 30 year Winter I+40%	32.600	30.856	-0.119	0.000	0.45
2.000	S200	15 minute 30 year Winter I+40%	32.600	31.350	-0.050	0.000	0.76
2.001	S201	15 minute 30 year Winter I+40%	32.500	30.921	-0.109	0.000	0.51
1.003	S103	15 minute 30 year Winter I+40%	32.380	30.702	-0.899	0.000	0.02
3.000	S300	15 minute 30 year Winter I+40%	32.600	31.415	-0.135	0.000	0.56
4.000	S400	15 minute 30 year Winter I+40%	32.600	31.404	-0.071	0.000	0.78
3.001	S301	15 minute 30 year Winter I+40%	32.600	30.711	-0.134	0.000	0.64
1.004	S104	15 minute 30 year Winter I+40%	32.380	30.702	-0.719	0.000	0.02
5.000	S500	15 minute 30 year Winter I+40%	32.600	31.366	-0.034	0.000	0.92
5.001	S501	15 minute 30 year Winter I+40%	32.600	30.868	-0.037	0.000	0.47
6.000	S600	15 minute 30 year Winter I+40%	32.600	31.306	-0.094	0.000	0.30
6.001	S601	15 minute 30 year Winter I+40%	32.600	31.129	-0.086	0.000	0.37
6.002	S602	15 minute 30 year Winter I+40%	32.600	30.934	-0.121	0.000	0.43
5.002	S502	15 minute 30 year Winter I+40%	32.600	30.850	0.140	0.000	0.90
5.003	S503	15 minute 30 year Winter I+40%	32.500	30.790	0.130	0.000	0.70
7.000	S700	15 minute 30 year Winter I+40%	32.600	31.316	-0.084	0.000	0.40
7.001	S701	15 minute 30 year Winter I+40%	32.600	31.189	-0.111	0.000	0.15

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Summary Wizard of 15 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		3.9	OK
1.001	S101		18.6	OK
1.002	S102		23.3	OK
2.000	S200		14.4	OK
2.001	S201		28.9	OK
1.003	S103		60.7	OK
3.000	S300		61.8	OK
4.000	S400		48.8	OK
3.001	S301		111.2	OK
1.004	S104		85.8	OK
5.000	S500		17.3	OK
5.001	S501		22.0	OK
6.000	S600		7.9	OK
6.001	S601		9.4	OK
6.002	S602		23.4	OK
5.002	S502		55.2	SURCHARGED
5.003	S503		54.3	SURCHARGED
7.000	S700		6.9	OK
7.001	S701		6.8	OK

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Summary Wizard of 15 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	15 minute 30 year Winter I+40%	32.550	30.742	0.177	0.000	0.85
1.005	S105	15 minute 30 year Winter I+40%	32.380	30.702	0.232	0.000	0.06
8.000	S800	15 minute 30 year Winter I+40%	32.400	31.354	-0.121	0.000	0.43
1.006	S106	15 minute 30 year Winter I+40%	32.380	30.699	0.539	0.000	0.63
1.007	FW105	15 minute 30 year Winter I+40%	32.380	30.024	-0.111	0.000	0.16

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		65.3	SURCHARGED
1.005	S105		6.8	SURCHARGED
8.000	S800		30.3	OK
1.006	S106		6.9	SURCHARGED
1.007	FW105		6.9	OK

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Summary Wizard of 30 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	30 minute 30 year Winter I+40%	32.600	31.291	-0.109	0.000	0.17
1.001	S101	30 minute 30 year Winter I+40%	32.400	31.065	-0.145	0.000	0.27
1.002	S102	30 minute 30 year Winter I+40%	32.600	30.842	-0.133	0.000	0.34
2.000	S200	30 minute 30 year Winter I+40%	32.600	31.335	-0.065	0.000	0.61
2.001	S201	30 minute 30 year Winter I+40%	32.500	30.904	-0.126	0.000	0.40
1.003	S103	30 minute 30 year Winter I+40%	32.380	30.838	-0.763	0.000	0.01
3.000	S300	30 minute 30 year Winter I+40%	32.600	31.392	-0.158	0.000	0.45
4.000	S400	30 minute 30 year Winter I+40%	32.600	31.380	-0.095	0.000	0.63
3.001	S301	30 minute 30 year Winter I+40%	32.600	30.860	0.015	0.000	0.51
1.004	S104	30 minute 30 year Winter I+40%	32.380	30.839	-0.582	0.000	0.01
5.000	S500	30 minute 30 year Winter I+40%	32.600	31.347	-0.053	0.000	0.74
5.001	S501	30 minute 30 year Winter I+40%	32.600	30.977	0.072	0.000	0.36
6.000	S600	30 minute 30 year Winter I+40%	32.600	31.299	-0.101	0.000	0.24
6.001	S601	30 minute 30 year Winter I+40%	32.600	31.121	-0.094	0.000	0.30
6.002	S602	30 minute 30 year Winter I+40%	32.600	30.980	-0.075	0.000	0.33
5.002	S502	30 minute 30 year Winter I+40%	32.600	30.956	0.246	0.000	0.66
5.003	S503	30 minute 30 year Winter I+40%	32.500	30.885	0.225	0.000	0.50
7.000	S700	30 minute 30 year Winter I+40%	32.600	31.308	-0.092	0.000	0.32
7.001	S701	30 minute 30 year Winter I+40%	32.600	31.184	-0.116	0.000	0.12

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Summary Wizard of 30 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		3.1	OK
1.001	S101		14.2	OK
1.002	S102		17.7	OK
2.000	S200		11.7	OK
2.001	S201		22.6	OK
1.003	S103		33.3	OK
3.000	S300		49.7	OK
4.000	S400		39.3	OK
3.001	S301		88.8	SURCHARGED
1.004	S104		49.8	OK
5.000	S500		13.9	OK
5.001	S501		17.2	SURCHARGED
6.000	S600		6.2	OK
6.001	S601		7.4	OK
6.002	S602		18.1	OK
5.002	S502		40.7	SURCHARGED
5.003	S503		38.5	SURCHARGED
7.000	S700		5.5	OK
7.001	S701		5.5	OK

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Summary Wizard of 30 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	30 minute 30 year Winter I+40%	32.550	30.839	0.274	0.000	0.59
1.005	S105	30 minute 30 year Winter I+40%	32.380	30.838	0.368	0.000	0.06
8.000	S800	30 minute 30 year Winter I+40%	32.400	31.341	-0.134	0.000	0.34
1.006	S106	30 minute 30 year Winter I+40%	32.380	30.835	0.675	0.000	0.69
1.007	FW105	30 minute 30 year Winter I+40%	32.380	30.026	-0.109	0.000	0.17

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		45.3	SURCHARGED
1.005	S105		7.4	SURCHARGED
8.000	S800		24.5	OK
1.006	S106		7.5	SURCHARGED
1.007	FW105		7.5	OK

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Summary Wizard of 60 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	60 minute 30 year Winter I+40%	32.600	31.284	-0.116	0.000	0.11
1.001	S101	60 minute 30 year Winter I+40%	32.400	31.050	-0.160	0.000	0.18
1.002	S102	60 minute 30 year Winter I+40%	32.600	30.973	-0.002	0.000	0.23
2.000	S200	60 minute 30 year Winter I+40%	32.600	31.317	-0.083	0.000	0.41
2.001	S201	60 minute 30 year Winter I+40%	32.500	30.974	-0.056	0.000	0.27
1.003	S103	60 minute 30 year Winter I+40%	32.380	30.972	-0.629	0.000	0.00
3.000	S300	60 minute 30 year Winter I+40%	32.600	31.364	-0.186	0.000	0.31
4.000	S400	60 minute 30 year Winter I+40%	32.600	31.352	-0.123	0.000	0.43
3.001	S301	60 minute 30 year Winter I+40%	32.600	30.974	0.129	0.000	0.34
1.004	S104	60 minute 30 year Winter I+40%	32.380	30.972	-0.449	0.000	0.01
5.000	S500	60 minute 30 year Winter I+40%	32.600	31.325	-0.075	0.000	0.50
5.001	S501	60 minute 30 year Winter I+40%	32.600	31.002	0.097	0.000	0.24
6.000	S600	60 minute 30 year Winter I+40%	32.600	31.290	-0.110	0.000	0.16
6.001	S601	60 minute 30 year Winter I+40%	32.600	31.110	-0.105	0.000	0.20
6.002	S602	60 minute 30 year Winter I+40%	32.600	31.006	-0.049	0.000	0.23
5.002	S502	60 minute 30 year Winter I+40%	32.600	30.984	0.274	0.000	0.41
5.003	S503	60 minute 30 year Winter I+40%	32.500	30.973	0.313	0.000	0.32
7.000	S700	60 minute 30 year Winter I+40%	32.600	31.297	-0.103	0.000	0.21
7.001	S701	60 minute 30 year Winter I+40%	32.600	31.178	-0.122	0.000	0.08

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Summary Wizard of 60 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		2.1	OK
1.001	S101		9.5	OK
1.002	S102		11.9	OK
2.000	S200		7.9	OK
2.001	S201		15.3	OK
1.003	S103		16.4	OK
3.000	S300		33.9	OK
4.000	S400		26.6	OK
3.001	S301		59.0	SURCHARGED
1.004	S104		32.5	OK
5.000	S500		9.5	OK
5.001	S501		11.4	SURCHARGED
6.000	S600		4.2	OK
6.001	S601		5.0	OK
6.002	S602		12.2	OK
5.002	S502		25.3	SURCHARGED
5.003	S503		24.9	SURCHARGED
7.000	S700		3.7	OK
7.001	S701		3.7	OK

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Summary Wizard of 60 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	60 minute 30 year Winter I+40%	32.550	30.972	0.407	0.000	0.40
1.005	S105	60 minute 30 year Winter I+40%	32.380	30.972	0.502	0.000	0.07
8.000	S800	60 minute 30 year Winter I+40%	32.400	31.323	-0.152	0.000	0.23
1.006	S106	60 minute 30 year Winter I+40%	32.380	30.968	0.808	0.000	0.74
1.007	FW105	60 minute 30 year Winter I+40%	32.380	30.028	-0.107	0.000	0.18

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		30.9	SURCHARGED
1.005	S105		7.9	SURCHARGED
8.000	S800		16.6	OK
1.006	S106		8.0	SURCHARGED
1.007	FW105		8.0	OK

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Summary Wizard of 120 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 30 year Winter I+40%	32.600	31.276	-0.124	0.000	0.07
1.001	S101	120 minute 30 year Winter I+40%	32.400	31.087	-0.123	0.000	0.11
1.002	S102	120 minute 30 year Winter I+40%	32.600	31.086	0.111	0.000	0.15
2.000	S200	120 minute 30 year Winter I+40%	32.600	31.302	-0.098	0.000	0.26
2.001	S201	120 minute 30 year Winter I+40%	32.500	31.086	0.056	0.000	0.17
1.003	S103	120 minute 30 year Winter I+40%	32.380	31.085	-0.516	0.000	0.00
3.000	S300	120 minute 30 year Winter I+40%	32.600	31.340	-0.210	0.000	0.20
4.000	S400	120 minute 30 year Winter I+40%	32.600	31.329	-0.146	0.000	0.27
3.001	S301	120 minute 30 year Winter I+40%	32.600	31.087	0.242	0.000	0.21
1.004	S104	120 minute 30 year Winter I+40%	32.380	31.085	-0.336	0.000	0.00
5.000	S500	120 minute 30 year Winter I+40%	32.600	31.308	-0.092	0.000	0.32
5.001	S501	120 minute 30 year Winter I+40%	32.600	31.088	0.183	0.000	0.16
6.000	S600	120 minute 30 year Winter I+40%	32.600	31.282	-0.118	0.000	0.10
6.001	S601	120 minute 30 year Winter I+40%	32.600	31.100	-0.115	0.000	0.13
6.002	S602	120 minute 30 year Winter I+40%	32.600	31.088	0.033	0.000	0.14
5.002	S502	120 minute 30 year Winter I+40%	32.600	31.086	0.376	0.000	0.28
5.003	S503	120 minute 30 year Winter I+40%	32.500	31.086	0.426	0.000	0.22
7.000	S700	120 minute 30 year Winter I+40%	32.600	31.286	-0.114	0.000	0.14
7.001	S701	120 minute 30 year Winter I+40%	32.600	31.172	-0.128	0.000	0.05

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Summary Wizard of 120 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.3	OK
1.001	S101		6.0	OK
1.002	S102		7.5	SURCHARGED
2.000	S200		5.0	OK
2.001	S201		9.7	SURCHARGED
1.003	S103		9.6	OK
3.000	S300		21.5	OK
4.000	S400		16.8	OK
3.001	S301		35.8	SURCHARGED
1.004	S104		20.1	OK
5.000	S500		6.0	OK
5.001	S501		7.6	SURCHARGED
6.000	S600		2.7	OK
6.001	S601		3.2	OK
6.002	S602		7.7	SURCHARGED
5.002	S502		17.4	SURCHARGED
5.003	S503		17.3	SURCHARGED
7.000	S700		2.3	OK
7.001	S701		2.3	OK

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Summary Wizard of 120 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	120 minute 30 year Winter I+40%	32.550	31.085	0.520	0.000	0.28
1.005	S105	120 minute 30 year Winter I+40%	32.380	31.084	0.614	0.000	0.07
8.000	S800	120 minute 30 year Winter I+40%	32.400	31.307	-0.168	0.000	0.15
1.006	S106	120 minute 30 year Winter I+40%	32.380	31.079	0.919	0.000	0.78
1.007	FW105	120 minute 30 year Winter I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		21.7	SURCHARGED
1.005	S105		8.3	SURCHARGED
8.000	S800		10.5	OK
1.006	S106		8.5	SURCHARGED
1.007	FW105		8.5	OK

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Summary Wizard of 180 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 30 year Winter I+40%	32.600	31.272	-0.128	0.000	0.05
1.001	S101	180 minute 30 year Winter I+40%	32.400	31.129	-0.081	0.000	0.09
1.002	S102	180 minute 30 year Winter I+40%	32.600	31.128	0.153	0.000	0.11
2.000	S200	180 minute 30 year Winter I+40%	32.600	31.295	-0.105	0.000	0.20
2.001	S201	180 minute 30 year Winter I+40%	32.500	31.128	0.098	0.000	0.13
1.003	S103	180 minute 30 year Winter I+40%	32.380	31.127	-0.474	0.000	0.00
3.000	S300	180 minute 30 year Winter I+40%	32.600	31.326	-0.224	0.000	0.15
4.000	S400	180 minute 30 year Winter I+40%	32.600	31.318	-0.157	0.000	0.20
3.001	S301	180 minute 30 year Winter I+40%	32.600	31.129	0.284	0.000	0.16
1.004	S104	180 minute 30 year Winter I+40%	32.380	31.127	-0.294	0.000	0.00
5.000	S500	180 minute 30 year Winter I+40%	32.600	31.299	-0.101	0.000	0.24
5.001	S501	180 minute 30 year Winter I+40%	32.600	31.130	0.225	0.000	0.12
6.000	S600	180 minute 30 year Winter I+40%	32.600	31.277	-0.123	0.000	0.08
6.001	S601	180 minute 30 year Winter I+40%	32.600	31.130	-0.085	0.000	0.09
6.002	S602	180 minute 30 year Winter I+40%	32.600	31.130	0.075	0.000	0.11
5.002	S502	180 minute 30 year Winter I+40%	32.600	31.128	0.418	0.000	0.22
5.003	S503	180 minute 30 year Winter I+40%	32.500	31.128	0.468	0.000	0.17
7.000	S700	180 minute 30 year Winter I+40%	32.600	31.282	-0.118	0.000	0.10
7.001	S701	180 minute 30 year Winter I+40%	32.600	31.169	-0.131	0.000	0.04

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Summary Wizard of 180 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.0	OK
1.001	S101		4.5	OK
1.002	S102		5.6	SURCHARGED
2.000	S200		3.8	OK
2.001	S201		7.3	SURCHARGED
1.003	S103		6.9	OK
3.000	S300		16.1	OK
4.000	S400		12.6	OK
3.001	S301		27.6	SURCHARGED
1.004	S104		16.4	OK
5.000	S500		4.5	OK
5.001	S501		5.7	SURCHARGED
6.000	S600		2.0	OK
6.001	S601		2.4	OK
6.002	S602		5.8	SURCHARGED
5.002	S502		13.7	SURCHARGED
5.003	S503		13.2	SURCHARGED
7.000	S700		1.8	OK
7.001	S701		1.8	OK

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Summary Wizard of 180 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	180 minute 30 year Winter I+40%	32.550	31.126	0.561	0.000	0.21
1.005	S105	180 minute 30 year Winter I+40%	32.380	31.125	0.655	0.000	0.07
8.000	S800	180 minute 30 year Winter I+40%	32.400	31.300	-0.175	0.000	0.11
1.006	S106	180 minute 30 year Winter I+40%	32.380	31.121	0.961	0.000	0.80
1.007	FW105	180 minute 30 year Winter I+40%	32.380	30.030	-0.105	0.000	0.20

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		16.1	SURCHARGED
1.005	S105		8.5	SURCHARGED
8.000	S800		7.9	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 240 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 30 year Winter I+40%	32.600	31.270	-0.130	0.000	0.04
1.001	S101	240 minute 30 year Winter I+40%	32.400	31.141	-0.069	0.000	0.07
1.002	S102	240 minute 30 year Winter I+40%	32.600	31.140	0.165	0.000	0.09
2.000	S200	240 minute 30 year Winter I+40%	32.600	31.290	-0.110	0.000	0.16
2.001	S201	240 minute 30 year Winter I+40%	32.500	31.141	0.111	0.000	0.10
1.003	S103	240 minute 30 year Winter I+40%	32.380	31.139	-0.462	0.000	0.00
3.000	S300	240 minute 30 year Winter I+40%	32.600	31.319	-0.231	0.000	0.12
4.000	S400	240 minute 30 year Winter I+40%	32.600	31.311	-0.164	0.000	0.16
3.001	S301	240 minute 30 year Winter I+40%	32.600	31.141	0.296	0.000	0.13
1.004	S104	240 minute 30 year Winter I+40%	32.380	31.139	-0.282	0.000	0.00
5.000	S500	240 minute 30 year Winter I+40%	32.600	31.295	-0.105	0.000	0.19
5.001	S501	240 minute 30 year Winter I+40%	32.600	31.142	0.237	0.000	0.10
6.000	S600	240 minute 30 year Winter I+40%	32.600	31.274	-0.126	0.000	0.06
6.001	S601	240 minute 30 year Winter I+40%	32.600	31.142	-0.073	0.000	0.08
6.002	S602	240 minute 30 year Winter I+40%	32.600	31.142	0.087	0.000	0.09
5.002	S502	240 minute 30 year Winter I+40%	32.600	31.140	0.430	0.000	0.17
5.003	S503	240 minute 30 year Winter I+40%	32.500	31.140	0.480	0.000	0.14
7.000	S700	240 minute 30 year Winter I+40%	32.600	31.279	-0.121	0.000	0.08
7.001	S701	240 minute 30 year Winter I+40%	32.600	31.167	-0.133	0.000	0.03

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Summary Wizard of 240 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.8	OK
1.001	S101		3.7	OK
1.002	S102		4.6	SURCHARGED
2.000	S200		3.0	OK
2.001	S201		5.9	SURCHARGED
1.003	S103		5.7	OK
3.000	S300		13.1	OK
4.000	S400		10.2	OK
3.001	S301		22.4	SURCHARGED
1.004	S104		14.1	OK
5.000	S500		3.7	OK
5.001	S501		4.6	SURCHARGED
6.000	S600		1.6	OK
6.001	S601		1.9	OK
6.002	S602		4.7	SURCHARGED
5.002	S502		10.7	SURCHARGED
5.003	S503		10.4	SURCHARGED
7.000	S700		1.4	OK
7.001	S701		1.4	OK

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Summary Wizard of 240 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	240 minute 30 year Winter I+40%	32.550	31.139	0.574	0.000	0.17
1.005	S105	240 minute 30 year Winter I+40%	32.380	31.137	0.667	0.000	0.07
8.000	S800	240 minute 30 year Winter I+40%	32.400	31.295	-0.180	0.000	0.09
1.006	S106	240 minute 30 year Winter I+40%	32.380	31.133	0.973	0.000	0.80
1.007	FW105	240 minute 30 year Winter I+40%	32.380	30.030	-0.105	0.000	0.20

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		13.2	SURCHARGED
1.005	S105		8.5	SURCHARGED
8.000	S800		6.4	OK
1.006	S106		8.7	SURCHARGED
1.007	FW105		8.7	OK

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Summary Wizard of 360 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 30 year Winter I+40%	32.600	31.268	-0.132	0.000	0.03
1.001	S101	360 minute 30 year Winter I+40%	32.400	31.130	-0.080	0.000	0.05
1.002	S102	360 minute 30 year Winter I+40%	32.600	31.129	0.154	0.000	0.07
2.000	S200	360 minute 30 year Winter I+40%	32.600	31.284	-0.116	0.000	0.12
2.001	S201	360 minute 30 year Winter I+40%	32.500	31.129	0.099	0.000	0.08
1.003	S103	360 minute 30 year Winter I+40%	32.380	31.128	-0.473	0.000	0.00
3.000	S300	360 minute 30 year Winter I+40%	32.600	31.310	-0.240	0.000	0.09
4.000	S400	360 minute 30 year Winter I+40%	32.600	31.302	-0.173	0.000	0.12
3.001	S301	360 minute 30 year Winter I+40%	32.600	31.130	0.285	0.000	0.10
1.004	S104	360 minute 30 year Winter I+40%	32.380	31.127	-0.294	0.000	0.00
5.000	S500	360 minute 30 year Winter I+40%	32.600	31.288	-0.112	0.000	0.14
5.001	S501	360 minute 30 year Winter I+40%	32.600	31.130	0.225	0.000	0.07
6.000	S600	360 minute 30 year Winter I+40%	32.600	31.271	-0.129	0.000	0.05
6.001	S601	360 minute 30 year Winter I+40%	32.600	31.131	-0.084	0.000	0.06
6.002	S602	360 minute 30 year Winter I+40%	32.600	31.130	0.075	0.000	0.06
5.002	S502	360 minute 30 year Winter I+40%	32.600	31.129	0.419	0.000	0.13
5.003	S503	360 minute 30 year Winter I+40%	32.500	31.128	0.468	0.000	0.10
7.000	S700	360 minute 30 year Winter I+40%	32.600	31.274	-0.126	0.000	0.06
7.001	S701	360 minute 30 year Winter I+40%	32.600	31.165	-0.135	0.000	0.02

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Summary Wizard of 360 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	OK
1.001	S101		2.7	OK
1.002	S102		3.4	SURCHARGED
2.000	S200		2.2	OK
2.001	S201		4.3	SURCHARGED
1.003	S103		4.6	OK
3.000	S300		9.7	OK
4.000	S400		7.6	OK
3.001	S301		16.7	SURCHARGED
1.004	S104		11.4	OK
5.000	S500		2.7	OK
5.001	S501		3.4	SURCHARGED
6.000	S600		1.2	OK
6.001	S601		1.4	OK
6.002	S602		3.4	SURCHARGED
5.002	S502		8.2	SURCHARGED
5.003	S503		7.9	SURCHARGED
7.000	S700		1.0	OK
7.001	S701		1.0	OK

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Summary Wizard of 360 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	360 minute 30 year Winter I+40%	32.550	31.127	0.562	0.000	0.12
1.005	S105	360 minute 30 year Winter I+40%	32.380	31.126	0.656	0.000	0.07
8.000	S800	360 minute 30 year Winter I+40%	32.400	31.288	-0.187	0.000	0.07
1.006	S106	360 minute 30 year Winter I+40%	32.380	31.122	0.962	0.000	0.80
1.007	FW105	360 minute 30 year Winter I+40%	32.380	30.030	-0.105	0.000	0.20

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		9.6	SURCHARGED
1.005	S105		8.4	SURCHARGED
8.000	S800		4.7	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 480 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 30 year Winter I+40%	32.600	31.266	-0.134	0.000	0.03
1.001	S101	480 minute 30 year Winter I+40%	32.400	31.114	-0.096	0.000	0.04
1.002	S102	480 minute 30 year Winter I+40%	32.600	31.113	0.138	0.000	0.05
2.000	S200	480 minute 30 year Winter I+40%	32.600	31.281	-0.119	0.000	0.09
2.001	S201	480 minute 30 year Winter I+40%	32.500	31.113	0.083	0.000	0.06
1.003	S103	480 minute 30 year Winter I+40%	32.380	31.112	-0.489	0.000	0.00
3.000	S300	480 minute 30 year Winter I+40%	32.600	31.302	-0.248	0.000	0.07
4.000	S400	480 minute 30 year Winter I+40%	32.600	31.297	-0.178	0.000	0.10
3.001	S301	480 minute 30 year Winter I+40%	32.600	31.114	0.269	0.000	0.08
1.004	S104	480 minute 30 year Winter I+40%	32.380	31.112	-0.309	0.000	0.00
5.000	S500	480 minute 30 year Winter I+40%	32.600	31.284	-0.116	0.000	0.12
5.001	S501	480 minute 30 year Winter I+40%	32.600	31.114	0.209	0.000	0.06
6.000	S600	480 minute 30 year Winter I+40%	32.600	31.269	-0.131	0.000	0.04
6.001	S601	480 minute 30 year Winter I+40%	32.600	31.115	-0.100	0.000	0.05
6.002	S602	480 minute 30 year Winter I+40%	32.600	31.115	0.060	0.000	0.05
5.002	S502	480 minute 30 year Winter I+40%	32.600	31.113	0.403	0.000	0.11
5.003	S503	480 minute 30 year Winter I+40%	32.500	31.113	0.453	0.000	0.08
7.000	S700	480 minute 30 year Winter I+40%	32.600	31.271	-0.129	0.000	0.05
7.001	S701	480 minute 30 year Winter I+40%	32.600	31.163	-0.137	0.000	0.02

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Summary Wizard of 480 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	OK
1.001	S101		2.2	OK
1.002	S102		2.7	SURCHARGED
2.000	S200		1.8	OK
2.001	S201		3.5	SURCHARGED
1.003	S103		4.0	OK
3.000	S300		7.8	OK
4.000	S400		6.1	OK
3.001	S301		13.4	SURCHARGED
1.004	S104		9.9	OK
5.000	S500		2.2	OK
5.001	S501		2.7	SURCHARGED
6.000	S600		1.0	OK
6.001	S601		1.1	OK
6.002	S602		2.8	SURCHARGED
5.002	S502		6.6	SURCHARGED
5.003	S503		6.5	SURCHARGED
7.000	S700		0.8	OK
7.001	S701		0.8	OK

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Summary Wizard of 480 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	480 minute 30 year Winter I+40%	32.550	31.112	0.547	0.000	0.10
1.005	S105	480 minute 30 year Winter I+40%	32.380	31.110	0.640	0.000	0.07
8.000	S800	480 minute 30 year Winter I+40%	32.400	31.283	-0.192	0.000	0.05
1.006	S106	480 minute 30 year Winter I+40%	32.380	31.106	0.946	0.000	0.79
1.007	FW105	480 minute 30 year Winter I+40%	32.380	30.030	-0.105	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.9	SURCHARGED
1.005	S105		8.2	SURCHARGED
8.000	S800		3.8	OK
1.006	S106		8.6	SURCHARGED
1.007	FW105		8.6	OK

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Summary Wizard of 600 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 30 year Winter I+40%	32.600	31.265	-0.135	0.000	0.02
1.001	S101	600 minute 30 year Winter I+40%	32.400	31.090	-0.120	0.000	0.04
1.002	S102	600 minute 30 year Winter I+40%	32.600	31.089	0.114	0.000	0.04
2.000	S200	600 minute 30 year Winter I+40%	32.600	31.278	-0.122	0.000	0.08
2.001	S201	600 minute 30 year Winter I+40%	32.500	31.089	0.059	0.000	0.05
1.003	S103	600 minute 30 year Winter I+40%	32.380	31.088	-0.513	0.000	0.00
3.000	S300	600 minute 30 year Winter I+40%	32.600	31.297	-0.253	0.000	0.06
4.000	S400	600 minute 30 year Winter I+40%	32.600	31.293	-0.182	0.000	0.08
3.001	S301	600 minute 30 year Winter I+40%	32.600	31.090	0.245	0.000	0.06
1.004	S104	600 minute 30 year Winter I+40%	32.380	31.088	-0.333	0.000	0.00
5.000	S500	600 minute 30 year Winter I+40%	32.600	31.281	-0.119	0.000	0.10
5.001	S501	600 minute 30 year Winter I+40%	32.600	31.090	0.185	0.000	0.05
6.000	S600	600 minute 30 year Winter I+40%	32.600	31.267	-0.133	0.000	0.03
6.001	S601	600 minute 30 year Winter I+40%	32.600	31.091	-0.124	0.000	0.04
6.002	S602	600 minute 30 year Winter I+40%	32.600	31.091	0.036	0.000	0.04
5.002	S502	600 minute 30 year Winter I+40%	32.600	31.089	0.379	0.000	0.09
5.003	S503	600 minute 30 year Winter I+40%	32.500	31.089	0.429	0.000	0.07
7.000	S700	600 minute 30 year Winter I+40%	32.600	31.270	-0.130	0.000	0.04
7.001	S701	600 minute 30 year Winter I+40%	32.600	31.161	-0.139	0.000	0.02

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Summary Wizard of 600 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.8	OK
1.002	S102		2.3	SURCHARGED
2.000	S200		1.5	OK
2.001	S201		3.0	SURCHARGED
1.003	S103		3.7	OK
3.000	S300		6.6	OK
4.000	S400		5.2	OK
3.001	S301		11.2	SURCHARGED
1.004	S104		8.9	OK
5.000	S500		1.8	OK
5.001	S501		2.3	SURCHARGED
6.000	S600		0.8	OK
6.001	S601		1.0	OK
6.002	S602		2.4	SURCHARGED
5.002	S502		5.5	SURCHARGED
5.003	S503		5.4	SURCHARGED
7.000	S700		0.7	OK
7.001	S701		0.7	OK

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Summary Wizard of 600 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	600 minute 30 year Winter I+40%	32.550	31.088	0.523	0.000	0.09
1.005	S105	600 minute 30 year Winter I+40%	32.380	31.086	0.616	0.000	0.07
8.000	S800	600 minute 30 year Winter I+40%	32.400	31.281	-0.194	0.000	0.05
1.006	S106	600 minute 30 year Winter I+40%	32.380	31.082	0.922	0.000	0.78
1.007	FW105	600 minute 30 year Winter I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.8	SURCHARGED
1.005	S105		8.0	SURCHARGED
8.000	S800		3.2	OK
1.006	S106		8.5	SURCHARGED
1.007	FW105		8.5	OK

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Summary Wizard of 720 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 30 year Winter I+40%	32.600	31.264	-0.136	0.000	0.02
1.001	S101	720 minute 30 year Winter I+40%	32.400	31.062	-0.148	0.000	0.03
1.002	S102	720 minute 30 year Winter I+40%	32.600	31.061	0.086	0.000	0.04
2.000	S200	720 minute 30 year Winter I+40%	32.600	31.276	-0.124	0.000	0.07
2.001	S201	720 minute 30 year Winter I+40%	32.500	31.061	0.031	0.000	0.05
1.003	S103	720 minute 30 year Winter I+40%	32.380	31.060	-0.541	0.000	0.00
3.000	S300	720 minute 30 year Winter I+40%	32.600	31.294	-0.256	0.000	0.05
4.000	S400	720 minute 30 year Winter I+40%	32.600	31.290	-0.185	0.000	0.07
3.001	S301	720 minute 30 year Winter I+40%	32.600	31.061	0.216	0.000	0.06
1.004	S104	720 minute 30 year Winter I+40%	32.380	31.059	-0.362	0.000	0.00
5.000	S500	720 minute 30 year Winter I+40%	32.600	31.279	-0.121	0.000	0.09
5.001	S501	720 minute 30 year Winter I+40%	32.600	31.062	0.157	0.000	0.04
6.000	S600	720 minute 30 year Winter I+40%	32.600	31.266	-0.134	0.000	0.03
6.001	S601	720 minute 30 year Winter I+40%	32.600	31.083	-0.132	0.000	0.03
6.002	S602	720 minute 30 year Winter I+40%	32.600	31.063	0.008	0.000	0.04
5.002	S502	720 minute 30 year Winter I+40%	32.600	31.061	0.351	0.000	0.08
5.003	S503	720 minute 30 year Winter I+40%	32.500	31.060	0.400	0.000	0.06
7.000	S700	720 minute 30 year Winter I+40%	32.600	31.268	-0.132	0.000	0.04
7.001	S701	720 minute 30 year Winter I+40%	32.600	31.160	-0.140	0.000	0.01

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Summary Wizard of 720 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	OK
1.001	S101		1.6	OK
1.002	S102		2.0	SURCHARGED
2.000	S200		1.3	OK
2.001	S201		2.6	SURCHARGED
1.003	S103		3.4	OK
3.000	S300		5.7	OK
4.000	S400		4.5	OK
3.001	S301		9.8	SURCHARGED
1.004	S104		8.2	OK
5.000	S500		1.6	OK
5.001	S501		2.0	SURCHARGED
6.000	S600		0.7	OK
6.001	S601		0.8	OK
6.002	S602		2.0	SURCHARGED
5.002	S502		4.9	SURCHARGED
5.003	S503		4.7	SURCHARGED
7.000	S700		0.6	OK
7.001	S701		0.6	OK

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Summary Wizard of 720 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	720 minute 30 year Winter I+40%	32.550	31.060	0.495	0.000	0.08
1.005	S105	720 minute 30 year Winter I+40%	32.380	31.058	0.588	0.000	0.07
8.000	S800	720 minute 30 year Winter I+40%	32.400	31.279	-0.196	0.000	0.04
1.006	S106	720 minute 30 year Winter I+40%	32.380	31.054	0.894	0.000	0.77
1.007	FW105	720 minute 30 year Winter I+40%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		5.9	SURCHARGED
1.005	S105		7.7	SURCHARGED
8.000	S800		2.8	OK
1.006	S106		8.4	SURCHARGED
1.007	FW105		8.4	OK

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Summary Wizard of 960 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 30 year Winter I+40%	32.600	31.261	-0.139	0.000	0.02
1.001	S101	960 minute 30 year Winter I+40%	32.400	31.009	-0.201	0.000	0.02
1.002	S102	960 minute 30 year Winter I+40%	32.600	31.002	0.027	0.000	0.03
2.000	S200	960 minute 30 year Winter I+40%	32.600	31.273	-0.127	0.000	0.06
2.001	S201	960 minute 30 year Winter I+40%	32.500	31.002	-0.028	0.000	0.04
1.003	S103	960 minute 30 year Winter I+40%	32.380	31.001	-0.600	0.000	0.00
3.000	S300	960 minute 30 year Winter I+40%	32.600	31.289	-0.261	0.000	0.04
4.000	S400	960 minute 30 year Winter I+40%	32.600	31.285	-0.190	0.000	0.06
3.001	S301	960 minute 30 year Winter I+40%	32.600	31.003	0.158	0.000	0.05
1.004	S104	960 minute 30 year Winter I+40%	32.380	31.001	-0.420	0.000	0.00
5.000	S500	960 minute 30 year Winter I+40%	32.600	31.276	-0.124	0.000	0.07
5.001	S501	960 minute 30 year Winter I+40%	32.600	31.004	0.099	0.000	0.03
6.000	S600	960 minute 30 year Winter I+40%	32.600	31.265	-0.135	0.000	0.02
6.001	S601	960 minute 30 year Winter I+40%	32.600	31.081	-0.134	0.000	0.03
6.002	S602	960 minute 30 year Winter I+40%	32.600	31.004	-0.051	0.000	0.03
5.002	S502	960 minute 30 year Winter I+40%	32.600	31.002	0.292	0.000	0.07
5.003	S503	960 minute 30 year Winter I+40%	32.500	31.002	0.342	0.000	0.05
7.000	S700	960 minute 30 year Winter I+40%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	960 minute 30 year Winter I+40%	32.600	31.158	-0.142	0.000	0.01

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Summary Wizard of 960 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.3	OK
1.002	S102		1.6	SURCHARGED
2.000	S200		1.1	OK
2.001	S201		2.1	OK
1.003	S103		3.1	OK
3.000	S300		4.6	OK
4.000	S400		3.6	OK
3.001	S301		8.0	SURCHARGED
1.004	S104		7.2	OK
5.000	S500		1.3	OK
5.001	S501		1.6	SURCHARGED
6.000	S600		0.6	OK
6.001	S601		0.7	OK
6.002	S602		1.6	OK
5.002	S502		4.0	SURCHARGED
5.003	S503		4.0	SURCHARGED
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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Summary Wizard of 960 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	960 minute 30 year Winter I+40%	32.550	31.001	0.436	0.000	0.06
1.005	S105	960 minute 30 year Winter I+40%	32.380	31.000	0.530	0.000	0.07
8.000	S800	960 minute 30 year Winter I+40%	32.400	31.276	-0.199	0.000	0.03
1.006	S106	960 minute 30 year Winter I+40%	32.380	30.996	0.836	0.000	0.75
1.007	FW105	960 minute 30 year Winter I+40%	32.380	30.028	-0.107	0.000	0.18

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.9	SURCHARGED
1.005	S105		7.5	SURCHARGED
8.000	S800		2.3	OK
1.006	S106		8.2	SURCHARGED
1.007	FW105		8.2	OK

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Summary Wizard of 1440 minute 30 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 30 year Winter I+40%	32.600	31.258	-0.142	0.000	0.01
1.001	S101	1440 minute 30 year Winter I+40%	32.400	31.004	-0.206	0.000	0.02
1.002	S102	1440 minute 30 year Winter I+40%	32.600	30.892	-0.083	0.000	0.02
2.000	S200	1440 minute 30 year Winter I+40%	32.600	31.269	-0.131	0.000	0.04
2.001	S201	1440 minute 30 year Winter I+40%	32.500	30.892	-0.138	0.000	0.03
1.003	S103	1440 minute 30 year Winter I+40%	32.380	30.891	-0.710	0.000	0.00
3.000	S300	1440 minute 30 year Winter I+40%	32.600	31.284	-0.266	0.000	0.03
4.000	S400	1440 minute 30 year Winter I+40%	32.600	31.280	-0.195	0.000	0.04
3.001	S301	1440 minute 30 year Winter I+40%	32.600	30.893	0.048	0.000	0.03
1.004	S104	1440 minute 30 year Winter I+40%	32.380	30.891	-0.530	0.000	0.00
5.000	S500	1440 minute 30 year Winter I+40%	32.600	31.272	-0.128	0.000	0.05
5.001	S501	1440 minute 30 year Winter I+40%	32.600	30.894	-0.011	0.000	0.03
6.000	S600	1440 minute 30 year Winter I+40%	32.600	31.261	-0.139	0.000	0.02
6.001	S601	1440 minute 30 year Winter I+40%	32.600	31.079	-0.136	0.000	0.02
6.002	S602	1440 minute 30 year Winter I+40%	32.600	30.894	-0.161	0.000	0.02
5.002	S502	1440 minute 30 year Winter I+40%	32.600	30.893	0.183	0.000	0.05
5.003	S503	1440 minute 30 year Winter I+40%	32.500	30.892	0.232	0.000	0.04
7.000	S700	1440 minute 30 year Winter I+40%	32.600	31.265	-0.135	0.000	0.02
7.001	S701	1440 minute 30 year Winter I+40%	32.600	31.156	-0.144	0.000	0.01

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Summary Wizard of 1440 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.2	OK
1.001	S101		0.9	OK
1.002	S102		1.2	OK
2.000	S200		0.8	OK
2.001	S201		1.5	OK
1.003	S103		2.7	OK
3.000	S300		3.4	OK
4.000	S400		2.7	OK
3.001	S301		6.0	SURCHARGED
1.004	S104		6.1	OK
5.000	S500		0.9	OK
5.001	S501		1.2	OK
6.000	S600		0.4	OK
6.001	S601		0.5	OK
6.002	S602		1.2	OK
5.002	S502		3.0	SURCHARGED
5.003	S503		2.9	SURCHARGED
7.000	S700		0.4	OK
7.001	S701		0.4	OK

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Summary Wizard of 1440 minute 30 year Winter I+40% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	1440 minute 30 year Winter I+40%	32.550	30.891	0.326	0.000	0.05
1.005	S105	1440 minute 30 year Winter I+40%	32.380	30.890	0.420	0.000	0.06
8.000	S800	1440 minute 30 year Winter I+40%	32.400	31.273	-0.202	0.000	0.02
1.006	S106	1440 minute 30 year Winter I+40%	32.380	30.886	0.726	0.000	0.71
1.007	FW105	1440 minute 30 year Winter I+40%	32.380	30.027	-0.108	0.000	0.17

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		3.6	SURCHARGED
1.005	S105		7.1	SURCHARGED
8.000	S800		1.7	OK
1.006	S106		7.7	SURCHARGED
1.007	FW105		7.7	OK

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Summary Wizard of 15 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	15 minute 100 year Winter I+45%	32.600	31.305	-0.095	0.000	0.29
1.001	S101	15 minute 100 year Winter I+45%	32.400	31.095	-0.115	0.000	0.48
1.002	S102	15 minute 100 year Winter I+45%	32.600	30.877	-0.098	0.000	0.61
2.000	S200	15 minute 100 year Winter I+45%	32.600	31.406	0.006	0.000	1.00
2.001	S201	15 minute 100 year Winter I+45%	32.500	30.942	-0.088	0.000	0.68
1.003	S103	15 minute 100 year Winter I+45%	32.380	30.859	-0.742	0.000	0.02
3.000	S300	15 minute 100 year Winter I+45%	32.600	31.451	-0.099	0.000	0.75
4.000	S400	15 minute 100 year Winter I+45%	32.600	31.554	0.079	0.000	1.05
3.001	S301	15 minute 100 year Winter I+45%	32.600	30.921	0.076	0.000	0.84
1.004	S104	15 minute 100 year Winter I+45%	32.380	30.859	-0.562	0.000	0.02
5.000	S500	15 minute 100 year Winter I+45%	32.600	31.614	0.214	0.000	1.17
5.001	S501	15 minute 100 year Winter I+45%	32.600	31.043	0.138	0.000	0.56
6.000	S600	15 minute 100 year Winter I+45%	32.600	31.316	-0.084	0.000	0.40
6.001	S601	15 minute 100 year Winter I+45%	32.600	31.141	-0.074	0.000	0.50
6.002	S602	15 minute 100 year Winter I+45%	32.600	31.047	-0.008	0.000	0.58
5.002	S502	15 minute 100 year Winter I+45%	32.600	31.024	0.314	0.000	1.07
5.003	S503	15 minute 100 year Winter I+45%	32.500	30.956	0.296	0.000	0.79
7.000	S700	15 minute 100 year Winter I+45%	32.600	31.328	-0.072	0.000	0.53
7.001	S701	15 minute 100 year Winter I+45%	32.600	31.195	-0.105	0.000	0.20

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		5.2	OK
1.001	S101		24.9	OK
1.002	S102		31.2	OK
2.000	S200		19.2	SURCHARGED
2.001	S201		38.4	OK
1.003	S103		65.3	OK
3.000	S300		82.6	OK
4.000	S400		65.3	SURCHARGED
3.001	S301		146.0	SURCHARGED
1.004	S104		91.4	OK
5.000	S500		22.0	SURCHARGED
5.001	S501		26.4	SURCHARGED
6.000	S600		10.5	OK
6.001	S601		12.5	OK
6.002	S602		31.3	OK
5.002	S502		65.6	SURCHARGED
5.003	S503		60.6	SURCHARGED
7.000	S700		9.2	OK
7.001	S701		9.1	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	15 minute 100 year Winter I+45%	32.550	30.899	0.334	0.000	0.98
1.005	S105	15 minute 100 year Winter I+45%	32.380	30.859	0.389	0.000	0.07
8.000	S800	15 minute 100 year Winter I+45%	32.400	31.374	-0.101	0.000	0.57
1.006	S106	15 minute 100 year Winter I+45%	32.380	30.856	0.696	0.000	0.70
1.007	FW105	15 minute 100 year Winter I+45%	32.380	30.026	-0.109	0.000	0.17

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		76.0	SURCHARGED
1.005	S105		7.5	SURCHARGED
8.000	S800		40.5	OK
1.006	S106		7.6	SURCHARGED
1.007	FW105		7.6	OK

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Summary Wizard of 30 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	30 minute 100 year Winter I+45%	32.600	31.298	-0.102	0.000	0.23
1.001	S101	30 minute 100 year Winter I+45%	32.400	31.080	-0.130	0.000	0.37
1.002	S102	30 minute 100 year Winter I+45%	32.600	31.055	0.080	0.000	0.47
2.000	S200	30 minute 100 year Winter I+45%	32.600	31.354	-0.046	0.000	0.82
2.001	S201	30 minute 100 year Winter I+45%	32.500	31.056	0.026	0.000	0.54
1.003	S103	30 minute 100 year Winter I+45%	32.380	31.055	-0.546	0.000	0.01
3.000	S300	30 minute 100 year Winter I+45%	32.600	31.421	-0.129	0.000	0.61
4.000	S400	30 minute 100 year Winter I+45%	32.600	31.410	-0.065	0.000	0.85
3.001	S301	30 minute 100 year Winter I+45%	32.600	31.083	0.238	0.000	0.65
1.004	S104	30 minute 100 year Winter I+45%	32.380	31.055	-0.366	0.000	0.01
5.000	S500	30 minute 100 year Winter I+45%	32.600	31.476	0.076	0.000	0.95
5.001	S501	30 minute 100 year Winter I+45%	32.600	31.194	0.289	0.000	0.46
6.000	S600	30 minute 100 year Winter I+45%	32.600	31.308	-0.092	0.000	0.32
6.001	S601	30 minute 100 year Winter I+45%	32.600	31.205	-0.010	0.000	0.40
6.002	S602	30 minute 100 year Winter I+45%	32.600	31.196	0.141	0.000	0.44
5.002	S502	30 minute 100 year Winter I+45%	32.600	31.171	0.461	0.000	0.88
5.003	S503	30 minute 100 year Winter I+45%	32.500	31.102	0.442	0.000	0.70
7.000	S700	30 minute 100 year Winter I+45%	32.600	31.318	-0.082	0.000	0.43
7.001	S701	30 minute 100 year Winter I+45%	32.600	31.190	-0.110	0.000	0.16

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Summary Wizard of 30 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		4.2	OK
1.001	S101		19.2	OK
1.002	S102		24.0	SURCHARGED
2.000	S200		15.7	OK
2.001	S201		30.6	SURCHARGED
1.003	S103		32.5	OK
3.000	S300		67.1	OK
4.000	S400		53.0	OK
3.001	S301		113.4	SURCHARGED
1.004	S104		63.1	OK
5.000	S500		17.9	SURCHARGED
5.001	S501		21.7	SURCHARGED
6.000	S600		8.4	OK
6.001	S601		10.0	OK
6.002	S602		23.9	SURCHARGED
5.002	S502		54.3	SURCHARGED
5.003	S503		53.9	SURCHARGED
7.000	S700		7.4	OK
7.001	S701		7.4	OK

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Summary Wizard of 30 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	30 minute 100 year Winter I+45%	32.550	31.054	0.489	0.000	0.87
1.005	S105	30 minute 100 year Winter I+45%	32.380	31.054	0.584	0.000	0.07
8.000	S800	30 minute 100 year Winter I+45%	32.400	31.358	-0.117	0.000	0.46
1.006	S106	30 minute 100 year Winter I+45%	32.380	31.050	0.890	0.000	0.77
1.007	FW105	30 minute 100 year Winter I+45%	32.380	30.029	-0.106	0.000	0.19

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		67.0	SURCHARGED
1.005	S105		8.2	SURCHARGED
8.000	S800		33.1	OK
1.006	S106		8.4	SURCHARGED
1.007	FW105		8.4	OK

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Summary Wizard of 60 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	60 minute 100 year Winter I+45%	32.600	31.289	-0.111	0.000	0.16
1.001	S101	60 minute 100 year Winter I+45%	32.400	31.256	0.046	0.000	0.25
1.002	S102	60 minute 100 year Winter I+45%	32.600	31.254	0.279	0.000	0.31
2.000	S200	60 minute 100 year Winter I+45%	32.600	31.331	-0.069	0.000	0.56
2.001	S201	60 minute 100 year Winter I+45%	32.500	31.255	0.225	0.000	0.37
1.003	S103	60 minute 100 year Winter I+45%	32.380	31.253	-0.348	0.000	0.00
3.000	S300	60 minute 100 year Winter I+45%	32.600	31.386	-0.164	0.000	0.42
4.000	S400	60 minute 100 year Winter I+45%	32.600	31.373	-0.102	0.000	0.58
3.001	S301	60 minute 100 year Winter I+45%	32.600	31.256	0.411	0.000	0.43
1.004	S104	60 minute 100 year Winter I+45%	32.380	31.253	-0.168	0.000	0.01
5.000	S500	60 minute 100 year Winter I+45%	32.600	31.391	-0.009	0.000	0.68
5.001	S501	60 minute 100 year Winter I+45%	32.600	31.294	0.389	0.000	0.32
6.000	S600	60 minute 100 year Winter I+45%	32.600	31.313	-0.087	0.000	0.22
6.001	S601	60 minute 100 year Winter I+45%	32.600	31.305	0.090	0.000	0.27
6.002	S602	60 minute 100 year Winter I+45%	32.600	31.298	0.243	0.000	0.30
5.002	S502	60 minute 100 year Winter I+45%	32.600	31.276	0.566	0.000	0.62
5.003	S503	60 minute 100 year Winter I+45%	32.500	31.251	0.591	0.000	0.49
7.000	S700	60 minute 100 year Winter I+45%	32.600	31.305	-0.095	0.000	0.29
7.001	S701	60 minute 100 year Winter I+45%	32.600	31.251	-0.049	0.000	0.11

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		2.9	OK
1.001	S101		13.0	SURCHARGED
1.002	S102		16.2	SURCHARGED
2.000	S200		10.7	OK
2.001	S201		20.8	SURCHARGED
1.003	S103		16.2	OK
3.000	S300		46.1	OK
4.000	S400		36.2	OK
3.001	S301		74.2	SURCHARGED
1.004	S104		39.1	OK
5.000	S500		12.9	OK
5.001	S501		15.2	SURCHARGED
6.000	S600		5.7	OK
6.001	S601		6.8	SURCHARGED
6.002	S602		16.2	SURCHARGED
5.002	S502		38.2	SURCHARGED
5.003	S503		37.4	SURCHARGED
7.000	S700		5.0	OK
7.001	S701		5.0	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	60 minute 100 year Winter I+45%	32.550	31.250	0.685	0.000	0.60
1.005	S105	60 minute 100 year Winter I+45%	32.380	31.249	0.779	0.000	0.08
8.000	S800	60 minute 100 year Winter I+45%	32.400	31.337	-0.138	0.000	0.32
1.006	S106	60 minute 100 year Winter I+45%	32.380	31.245	1.085	0.000	0.84
1.007	FW105	60 minute 100 year Winter I+45%	32.380	30.031	-0.104	0.000	0.21

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		46.6	SURCHARGED
1.005	S105		9.0	SURCHARGED
8.000	S800		22.6	OK
1.006	S106		9.1	SURCHARGED
1.007	FW105		9.1	OK

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Summary Wizard of 120 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	120 minute 100 year Winter I+45%	32.600	31.502	0.102	0.000	0.10
1.001	S101	120 minute 100 year Winter I+45%	32.400	31.501	0.291	0.000	0.16
1.002	S102	120 minute 100 year Winter I+45%	32.600	31.500	0.525	0.000	0.19
2.000	S200	120 minute 100 year Winter I+45%	32.600	31.504	0.104	0.000	0.36
2.001	S201	120 minute 100 year Winter I+45%	32.500	31.501	0.471	0.000	0.23
1.003	S103	120 minute 100 year Winter I+45%	32.380	31.499	-0.102	0.000	0.00
3.000	S300	120 minute 100 year Winter I+45%	32.600	31.505	-0.045	0.000	0.27
4.000	S400	120 minute 100 year Winter I+45%	32.600	31.506	0.031	0.000	0.37
3.001	S301	120 minute 100 year Winter I+45%	32.600	31.500	0.655	0.000	0.28
1.004	S104	120 minute 100 year Winter I+45%	32.380	31.497	0.076	0.000	0.00
5.000	S500	120 minute 100 year Winter I+45%	32.600	31.509	0.109	0.000	0.43
5.001	S501	120 minute 100 year Winter I+45%	32.600	31.503	0.598	0.000	0.19
6.000	S600	120 minute 100 year Winter I+45%	32.600	31.504	0.104	0.000	0.14
6.001	S601	120 minute 100 year Winter I+45%	32.600	31.504	0.289	0.000	0.17
6.002	S602	120 minute 100 year Winter I+45%	32.600	31.503	0.448	0.000	0.19
5.002	S502	120 minute 100 year Winter I+45%	32.600	31.501	0.791	0.000	0.37
5.003	S503	120 minute 100 year Winter I+45%	32.500	31.500	0.840	0.000	0.29
7.000	S700	120 minute 100 year Winter I+45%	32.600	31.500	0.100	0.000	0.18
7.001	S701	120 minute 100 year Winter I+45%	32.600	31.500	0.200	0.000	0.07

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.8	SURCHARGED
1.001	S101		8.2	SURCHARGED
1.002	S102		10.0	SURCHARGED
2.000	S200		6.8	SURCHARGED
2.001	S201		13.1	SURCHARGED
1.003	S103		10.0	OK
3.000	S300		29.2	OK
4.000	S400		22.9	SURCHARGED
3.001	S301		47.7	SURCHARGED
1.004	S104		26.7	SURCHARGED
5.000	S500		8.2	SURCHARGED
5.001	S501		9.0	SURCHARGED
6.000	S600		3.6	SURCHARGED
6.001	S601		4.3	SURCHARGED
6.002	S602		10.1	SURCHARGED
5.002	S502		22.6	SURCHARGED
5.003	S503		22.2	SURCHARGED
7.000	S700		3.2	SURCHARGED
7.001	S701		3.2	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	120 minute 100 year Winter I+45%	32.550	31.499	0.934	0.000	0.36
1.005	S105	120 minute 100 year Winter I+45%	32.380	31.497	1.027	0.000	0.08
8.000	S800	120 minute 100 year Winter I+45%	32.400	31.497	0.022	0.000	0.20
1.006	S106	120 minute 100 year Winter I+45%	32.380	31.493	1.333	0.000	0.91
1.007	FW105	120 minute 100 year Winter I+45%	32.380	30.033	-0.102	0.000	0.22

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		27.6	SURCHARGED
1.005	S105		9.6	SURCHARGED
8.000	S800		14.3	SURCHARGED
1.006	S106		9.9	SURCHARGED
1.007	FW105		9.9	OK

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Summary Wizard of 180 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	180 minute 100 year Winter I+45%	32.600	32.044	0.644	0.000	0.07
1.001	S101	180 minute 100 year Winter I+45%	32.400	32.044	0.834	0.000	0.12
1.002	S102	180 minute 100 year Winter I+45%	32.600	32.042	1.067	0.000	0.14
2.000	S200	180 minute 100 year Winter I+45%	32.600	32.046	0.646	0.000	0.27
2.001	S201	180 minute 100 year Winter I+45%	32.500	32.043	1.013	0.000	0.17
1.003	S103	180 minute 100 year Winter I+45%	32.380	32.041	0.440	0.000	0.00
3.000	S300	180 minute 100 year Winter I+45%	32.600	32.048	0.498	0.000	0.20
4.000	S400	180 minute 100 year Winter I+45%	32.600	32.049	0.574	0.000	0.28
3.001	S301	180 minute 100 year Winter I+45%	32.600	32.044	1.199	0.000	0.21
1.004	S104	180 minute 100 year Winter I+45%	32.380	32.041	0.620	0.000	0.00
5.000	S500	180 minute 100 year Winter I+45%	32.600	32.051	0.651	0.000	0.32
5.001	S501	180 minute 100 year Winter I+45%	32.600	32.046	1.141	0.000	0.15
6.000	S600	180 minute 100 year Winter I+45%	32.600	32.048	0.648	0.000	0.10
6.001	S601	180 minute 100 year Winter I+45%	32.600	32.047	0.832	0.000	0.13
6.002	S602	180 minute 100 year Winter I+45%	32.600	32.047	0.992	0.000	0.14
5.002	S502	180 minute 100 year Winter I+45%	32.600	32.044	1.334	0.000	0.29
5.003	S503	180 minute 100 year Winter I+45%	32.500	32.044	1.384	0.000	0.22
7.000	S700	180 minute 100 year Winter I+45%	32.600	32.044	0.644	0.000	0.14
7.001	S701	180 minute 100 year Winter I+45%	32.600	32.043	0.743	0.000	0.05

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.4	SURCHARGED
1.001	S101		6.1	SURCHARGED
1.002	S102		7.2	SURCHARGED
2.000	S200		5.1	SURCHARGED
2.001	S201		9.6	SURCHARGED
1.003	S103		7.4	SURCHARGED
3.000	S300		21.9	SURCHARGED
4.000	S400		17.2	SURCHARGED
3.001	S301		35.7	SURCHARGED
1.004	S104		20.2	SURCHARGED
5.000	S500		6.1	SURCHARGED
5.001	S501		7.0	SURCHARGED
6.000	S600		2.7	SURCHARGED
6.001	S601		3.2	SURCHARGED
6.002	S602		7.7	SURCHARGED
5.002	S502		17.7	SURCHARGED
5.003	S503		17.3	SURCHARGED
7.000	S700		2.4	SURCHARGED
7.001	S701		2.4	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	180 minute 100 year Winter I+45%	32.550	32.042	1.477	0.000	0.28
1.005	S105	180 minute 100 year Winter I+45%	32.380	32.041	1.571	0.000	0.09
8.000	S800	180 minute 100 year Winter I+45%	32.400	32.039	0.564	0.000	0.15
1.006	S106	180 minute 100 year Winter I+45%	32.380	32.035	1.875	0.000	1.06
1.007	FW105	180 minute 100 year Winter I+45%	32.380	30.037	-0.098	0.000	0.26

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		21.6	SURCHARGED
1.005	S105		10.4	SURCHARGED
8.000	S800		10.7	SURCHARGED
1.006	S106		11.5	SURCHARGED
1.007	FW105		11.5	OK

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Summary Wizard of 240 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	240 minute 100 year Winter I+45%	32.600	32.260	0.860	0.000	0.06
1.001	S101	240 minute 100 year Winter I+45%	32.400	32.259	1.049	0.000	0.09
1.002	S102	240 minute 100 year Winter I+45%	32.600	32.258	1.283	0.000	0.11
2.000	S200	240 minute 100 year Winter I+45%	32.600	32.262	0.862	0.000	0.22
2.001	S201	240 minute 100 year Winter I+45%	32.500	32.258	1.228	0.000	0.13
1.003	S103	240 minute 100 year Winter I+45%	32.380	32.256	0.655	0.000	0.00
3.000	S300	240 minute 100 year Winter I+45%	32.600	32.264	0.714	0.000	0.16
4.000	S400	240 minute 100 year Winter I+45%	32.600	32.265	0.790	0.000	0.22
3.001	S301	240 minute 100 year Winter I+45%	32.600	32.259	1.414	0.000	0.17
1.004	S104	240 minute 100 year Winter I+45%	32.380	32.256	0.835	0.000	0.00
5.000	S500	240 minute 100 year Winter I+45%	32.600	32.267	0.867	0.000	0.26
5.001	S501	240 minute 100 year Winter I+45%	32.600	32.262	1.357	0.000	0.12
6.000	S600	240 minute 100 year Winter I+45%	32.600	32.264	0.864	0.000	0.08
6.001	S601	240 minute 100 year Winter I+45%	32.600	32.263	1.048	0.000	0.10
6.002	S602	240 minute 100 year Winter I+45%	32.600	32.262	1.207	0.000	0.11
5.002	S502	240 minute 100 year Winter I+45%	32.600	32.260	1.550	0.000	0.23
5.003	S503	240 minute 100 year Winter I+45%	32.500	32.259	1.599	0.000	0.18
7.000	S700	240 minute 100 year Winter I+45%	32.600	32.260	0.860	0.000	0.11
7.001	S701	240 minute 100 year Winter I+45%	32.600	32.259	0.959	0.000	0.04

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Summary Wizard of 240 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		1.1	SURCHARGED
1.001	S101		5.0	FLOOD RISK
1.002	S102		5.7	SURCHARGED
2.000	S200		4.1	SURCHARGED
2.001	S201		7.6	FLOOD RISK
1.003	S103		6.3	FLOOD RISK
3.000	S300		17.7	SURCHARGED
4.000	S400		13.9	SURCHARGED
3.001	S301		29.2	SURCHARGED
1.004	S104		17.3	FLOOD RISK
5.000	S500		5.0	SURCHARGED
5.001	S501		5.7	SURCHARGED
6.000	S600		2.2	SURCHARGED
6.001	S601		2.6	SURCHARGED
6.002	S602		6.2	SURCHARGED
5.002	S502		14.3	SURCHARGED
5.003	S503		14.0	FLOOD RISK
7.000	S700		1.9	SURCHARGED
7.001	S701		1.9	SURCHARGED

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Summary Wizard of 240 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	240 minute 100 year Winter I+45%	32.550	32.258	1.693	0.000	0.23
1.005	S105	240 minute 100 year Winter I+45%	32.380	32.256	1.786	0.000	0.10
8.000	S800	240 minute 100 year Winter I+45%	32.400	32.254	0.779	0.000	0.12
1.006	S106	240 minute 100 year Winter I+45%	32.380	32.250	2.090	0.000	1.11
1.007	FW105	240 minute 100 year Winter I+45%	32.380	30.038	-0.097	0.000	0.27

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		17.5	FLOOD RISK
1.005	S105		10.8	FLOOD RISK
8.000	S800		8.7	FLOOD RISK
1.006	S106		12.0	FLOOD RISK
1.007	FW105		12.0	OK

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Summary Wizard of 360 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	360 minute 100 year Winter I+45%	32.600	32.150	0.750	0.000	0.04
1.001	S101	360 minute 100 year Winter I+45%	32.400	32.150	0.940	0.000	0.07
1.002	S102	360 minute 100 year Winter I+45%	32.600	32.148	1.173	0.000	0.08
2.000	S200	360 minute 100 year Winter I+45%	32.600	32.152	0.752	0.000	0.16
2.001	S201	360 minute 100 year Winter I+45%	32.500	32.149	1.119	0.000	0.10
1.003	S103	360 minute 100 year Winter I+45%	32.380	32.147	0.546	0.000	0.00
3.000	S300	360 minute 100 year Winter I+45%	32.600	32.154	0.604	0.000	0.12
4.000	S400	360 minute 100 year Winter I+45%	32.600	32.155	0.680	0.000	0.16
3.001	S301	360 minute 100 year Winter I+45%	32.600	32.150	1.305	0.000	0.13
1.004	S104	360 minute 100 year Winter I+45%	32.380	32.147	0.726	0.000	0.00
5.000	S500	360 minute 100 year Winter I+45%	32.600	32.158	0.758	0.000	0.19
5.001	S501	360 minute 100 year Winter I+45%	32.600	32.152	1.247	0.000	0.09
6.000	S600	360 minute 100 year Winter I+45%	32.600	32.154	0.754	0.000	0.06
6.001	S601	360 minute 100 year Winter I+45%	32.600	32.153	0.938	0.000	0.08
6.002	S602	360 minute 100 year Winter I+45%	32.600	32.153	1.098	0.000	0.08
5.002	S502	360 minute 100 year Winter I+45%	32.600	32.150	1.440	0.000	0.17
5.003	S503	360 minute 100 year Winter I+45%	32.500	32.150	1.490	0.000	0.13
7.000	S700	360 minute 100 year Winter I+45%	32.600	32.150	0.750	0.000	0.08
7.001	S701	360 minute 100 year Winter I+45%	32.600	32.149	0.849	0.000	0.03

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.8	SURCHARGED
1.001	S101		3.6	FLOOD RISK
1.002	S102		4.2	SURCHARGED
2.000	S200		3.0	SURCHARGED
2.001	S201		5.5	SURCHARGED
1.003	S103		6.3	FLOOD RISK
3.000	S300		13.0	SURCHARGED
4.000	S400		10.2	SURCHARGED
3.001	S301		22.0	SURCHARGED
1.004	S104		13.9	FLOOD RISK
5.000	S500		3.6	SURCHARGED
5.001	S501		4.2	SURCHARGED
6.000	S600		1.6	SURCHARGED
6.001	S601		1.9	SURCHARGED
6.002	S602		4.5	SURCHARGED
5.002	S502		10.6	SURCHARGED
5.003	S503		10.4	SURCHARGED
7.000	S700		1.4	SURCHARGED
7.001	S701		1.4	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	360 minute 100 year Winter I+45%	32.550	32.148	1.583	0.000	0.17
1.005	S105	360 minute 100 year Winter I+45%	32.380	32.147	1.677	0.000	0.09
8.000	S800	360 minute 100 year Winter I+45%	32.400	32.145	0.670	0.000	0.09
1.006	S106	360 minute 100 year Winter I+45%	32.380	32.141	1.981	0.000	1.09
1.007	FW105	360 minute 100 year Winter I+45%	32.380	30.037	-0.098	0.000	0.27

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		12.9	SURCHARGED
1.005	S105		10.6	FLOOD RISK
8.000	S800		6.4	FLOOD RISK
1.006	S106		11.8	FLOOD RISK
1.007	FW105		11.8	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	480 minute 100 year Winter I+45%	32.600	32.021	0.621	0.000	0.04
1.001	S101	480 minute 100 year Winter I+45%	32.400	32.021	0.811	0.000	0.06
1.002	S102	480 minute 100 year Winter I+45%	32.600	32.019	1.044	0.000	0.06
2.000	S200	480 minute 100 year Winter I+45%	32.600	32.023	0.623	0.000	0.13
2.001	S201	480 minute 100 year Winter I+45%	32.500	32.020	0.990	0.000	0.08
1.003	S103	480 minute 100 year Winter I+45%	32.380	32.018	0.417	0.000	0.00
3.000	S300	480 minute 100 year Winter I+45%	32.600	32.025	0.475	0.000	0.10
4.000	S400	480 minute 100 year Winter I+45%	32.600	32.026	0.551	0.000	0.13
3.001	S301	480 minute 100 year Winter I+45%	32.600	32.021	1.176	0.000	0.10
1.004	S104	480 minute 100 year Winter I+45%	32.380	32.018	0.597	0.000	0.00
5.000	S500	480 minute 100 year Winter I+45%	32.600	32.028	0.628	0.000	0.16
5.001	S501	480 minute 100 year Winter I+45%	32.600	32.023	1.118	0.000	0.07
6.000	S600	480 minute 100 year Winter I+45%	32.600	32.025	0.625	0.000	0.05
6.001	S601	480 minute 100 year Winter I+45%	32.600	32.024	0.809	0.000	0.06
6.002	S602	480 minute 100 year Winter I+45%	32.600	32.024	0.969	0.000	0.07
5.002	S502	480 minute 100 year Winter I+45%	32.600	32.022	1.312	0.000	0.14
5.003	S503	480 minute 100 year Winter I+45%	32.500	32.021	1.361	0.000	0.11
7.000	S700	480 minute 100 year Winter I+45%	32.600	32.021	0.621	0.000	0.07
7.001	S701	480 minute 100 year Winter I+45%	32.600	32.020	0.720	0.000	0.02

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Summary Wizard of 480 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.6	SURCHARGED
1.001	S101		2.9	SURCHARGED
1.002	S102		3.3	SURCHARGED
2.000	S200		2.4	SURCHARGED
2.001	S201		4.5	SURCHARGED
1.003	S103		6.1	SURCHARGED
3.000	S300		10.5	SURCHARGED
4.000	S400		8.2	SURCHARGED
3.001	S301		17.7	SURCHARGED
1.004	S104		11.9	SURCHARGED
5.000	S500		2.9	SURCHARGED
5.001	S501		3.4	SURCHARGED
6.000	S600		1.3	SURCHARGED
6.001	S601		1.5	SURCHARGED
6.002	S602		3.6	SURCHARGED
5.002	S502		8.5	SURCHARGED
5.003	S503		8.4	SURCHARGED
7.000	S700		1.1	SURCHARGED
7.001	S701		1.1	SURCHARGED

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Summary Wizard of 480 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	480 minute 100 year Winter I+45%	32.550	32.020	1.455	0.000	0.13
1.005	S105	480 minute 100 year Winter I+45%	32.380	32.018	1.548	0.000	0.09
8.000	S800	480 minute 100 year Winter I+45%	32.400	32.016	0.541	0.000	0.07
1.006	S106	480 minute 100 year Winter I+45%	32.380	32.012	1.852	0.000	1.05
1.007	FW105	480 minute 100 year Winter I+45%	32.380	30.037	-0.098	0.000	0.26

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		10.4	SURCHARGED
1.005	S105		10.3	SURCHARGED
8.000	S800		5.1	SURCHARGED
1.006	S106		11.4	SURCHARGED
1.007	FW105		11.4	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	600 minute 100 year Winter I+45%	32.600	31.781	0.381	0.000	0.03
1.001	S101	600 minute 100 year Winter I+45%	32.400	31.780	0.570	0.000	0.05
1.002	S102	600 minute 100 year Winter I+45%	32.600	31.779	0.804	0.000	0.06
2.000	S200	600 minute 100 year Winter I+45%	32.600	31.782	0.382	0.000	0.11
2.001	S201	600 minute 100 year Winter I+45%	32.500	31.779	0.749	0.000	0.07
1.003	S103	600 minute 100 year Winter I+45%	32.380	31.777	0.176	0.000	0.00
3.000	S300	600 minute 100 year Winter I+45%	32.600	31.784	0.234	0.000	0.08
4.000	S400	600 minute 100 year Winter I+45%	32.600	31.785	0.310	0.000	0.11
3.001	S301	600 minute 100 year Winter I+45%	32.600	31.780	0.935	0.000	0.09
1.004	S104	600 minute 100 year Winter I+45%	32.380	31.777	0.356	0.000	0.00
5.000	S500	600 minute 100 year Winter I+45%	32.600	31.787	0.387	0.000	0.13
5.001	S501	600 minute 100 year Winter I+45%	32.600	31.783	0.878	0.000	0.06
6.000	S600	600 minute 100 year Winter I+45%	32.600	31.784	0.384	0.000	0.04
6.001	S601	600 minute 100 year Winter I+45%	32.600	31.783	0.568	0.000	0.05
6.002	S602	600 minute 100 year Winter I+45%	32.600	31.783	0.728	0.000	0.06
5.002	S502	600 minute 100 year Winter I+45%	32.600	31.781	1.071	0.000	0.12
5.003	S503	600 minute 100 year Winter I+45%	32.500	31.780	1.120	0.000	0.09
7.000	S700	600 minute 100 year Winter I+45%	32.600	31.780	0.380	0.000	0.06
7.001	S701	600 minute 100 year Winter I+45%	32.600	31.780	0.480	0.000	0.02

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	SURCHARGED
1.001	S101		2.5	SURCHARGED
1.002	S102		2.8	SURCHARGED
2.000	S200		2.0	SURCHARGED
2.001	S201		3.8	SURCHARGED
1.003	S103		4.9	SURCHARGED
3.000	S300		8.8	SURCHARGED
4.000	S400		6.9	SURCHARGED
3.001	S301		14.9	SURCHARGED
1.004	S104		11.4	SURCHARGED
5.000	S500		2.5	SURCHARGED
5.001	S501		2.9	SURCHARGED
6.000	S600		1.1	SURCHARGED
6.001	S601		1.3	SURCHARGED
6.002	S602		3.1	SURCHARGED
5.002	S502		7.2	SURCHARGED
5.003	S503		7.1	SURCHARGED
7.000	S700		1.0	SURCHARGED
7.001	S701		1.0	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	600 minute 100 year Winter I+45%	32.550	31.779	1.214	0.000	0.11
1.005	S105	600 minute 100 year Winter I+45%	32.380	31.777	1.307	0.000	0.08
8.000	S800	600 minute 100 year Winter I+45%	32.400	31.776	0.301	0.000	0.06
1.006	S106	600 minute 100 year Winter I+45%	32.380	31.772	1.612	0.000	0.99
1.007	FW105	600 minute 100 year Winter I+45%	32.380	30.035	-0.100	0.000	0.24

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		8.8	SURCHARGED
1.005	S105		9.7	SURCHARGED
8.000	S800		4.3	SURCHARGED
1.006	S106		10.8	SURCHARGED
1.007	FW105		10.8	OK

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Summary Wizard of 720 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	720 minute 100 year Winter I+45%	32.600	31.576	0.176	0.000	0.03
1.001	S101	720 minute 100 year Winter I+45%	32.400	31.576	0.366	0.000	0.04
1.002	S102	720 minute 100 year Winter I+45%	32.600	31.574	0.599	0.000	0.05
2.000	S200	720 minute 100 year Winter I+45%	32.600	31.578	0.178	0.000	0.09
2.001	S201	720 minute 100 year Winter I+45%	32.500	31.575	0.545	0.000	0.06
1.003	S103	720 minute 100 year Winter I+45%	32.380	31.573	-0.028	0.000	0.00
3.000	S300	720 minute 100 year Winter I+45%	32.600	31.577	0.027	0.000	0.07
4.000	S400	720 minute 100 year Winter I+45%	32.600	31.578	0.103	0.000	0.10
3.001	S301	720 minute 100 year Winter I+45%	32.600	31.573	0.728	0.000	0.08
1.004	S104	720 minute 100 year Winter I+45%	32.380	31.571	0.150	0.000	0.00
5.000	S500	720 minute 100 year Winter I+45%	32.600	31.580	0.180	0.000	0.11
5.001	S501	720 minute 100 year Winter I+45%	32.600	31.575	0.670	0.000	0.05
6.000	S600	720 minute 100 year Winter I+45%	32.600	31.577	0.177	0.000	0.04
6.001	S601	720 minute 100 year Winter I+45%	32.600	31.576	0.361	0.000	0.05
6.002	S602	720 minute 100 year Winter I+45%	32.600	31.576	0.521	0.000	0.05
5.002	S502	720 minute 100 year Winter I+45%	32.600	31.574	0.864	0.000	0.10
5.003	S503	720 minute 100 year Winter I+45%	32.500	31.573	0.913	0.000	0.08
7.000	S700	720 minute 100 year Winter I+45%	32.600	31.574	0.174	0.000	0.05
7.001	S701	720 minute 100 year Winter I+45%	32.600	31.573	0.273	0.000	0.02

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Summary Wizard of 720 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.5	SURCHARGED
1.001	S101		2.1	SURCHARGED
1.002	S102		2.5	SURCHARGED
2.000	S200		1.8	SURCHARGED
2.001	S201		3.3	SURCHARGED
1.003	S103		5.2	OK
3.000	S300		7.7	SURCHARGED
4.000	S400		6.0	SURCHARGED
3.001	S301		13.1	SURCHARGED
1.004	S104		11.3	SURCHARGED
5.000	S500		2.1	SURCHARGED
5.001	S501		2.5	SURCHARGED
6.000	S600		0.9	SURCHARGED
6.001	S601		1.1	SURCHARGED
6.002	S602		2.7	SURCHARGED
5.002	S502		6.3	SURCHARGED
5.003	S503		6.1	SURCHARGED
7.000	S700		0.8	SURCHARGED
7.001	S701		0.8	SURCHARGED

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Summary Wizard of 720 minute 100 year Winter I+45% for Storm

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	720 minute 100 year Winter I+45%	32.550	31.572	1.007	0.000	0.10
1.005	S105	720 minute 100 year Winter I+45%	32.380	31.571	1.101	0.000	0.08
8.000	S800	720 minute 100 year Winter I+45%	32.400	31.569	0.094	0.000	0.05
1.006	S106	720 minute 100 year Winter I+45%	32.380	31.566	1.406	0.000	0.94
1.007	FW105	720 minute 100 year Winter I+45%	32.380	30.033	-0.102	0.000	0.23

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		7.7	SURCHARGED
1.005	S105		9.1	SURCHARGED
8.000	S800		3.7	SURCHARGED
1.006	S106		10.1	SURCHARGED
1.007	FW105		10.1	OK

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Summary Wizard of 960 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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	960 minute 100 year Winter I+45%	32.600	31.413	0.013	0.000	0.02
1.001	S101	960 minute 100 year Winter I+45%	32.400	31.413	0.203	0.000	0.03
1.002	S102	960 minute 100 year Winter I+45%	32.600	31.412	0.437	0.000	0.04
2.000	S200	960 minute 100 year Winter I+45%	32.600	31.415	0.015	0.000	0.07
2.001	S201	960 minute 100 year Winter I+45%	32.500	31.412	0.382	0.000	0.05
1.003	S103	960 minute 100 year Winter I+45%	32.380	31.410	-0.191	0.000	0.00
3.000	S300	960 minute 100 year Winter I+45%	32.600	31.415	-0.135	0.000	0.06
4.000	S400	960 minute 100 year Winter I+45%	32.600	31.416	-0.059	0.000	0.08
3.001	S301	960 minute 100 year Winter I+45%	32.600	31.412	0.567	0.000	0.06
1.004	S104	960 minute 100 year Winter I+45%	32.380	31.410	-0.011	0.000	0.00
5.000	S500	960 minute 100 year Winter I+45%	32.600	31.402	0.002	0.000	0.09
5.001	S501	960 minute 100 year Winter I+45%	32.600	31.397	0.492	0.000	0.04
6.000	S600	960 minute 100 year Winter I+45%	32.600	31.399	-0.001	0.000	0.03
6.001	S601	960 minute 100 year Winter I+45%	32.600	31.398	0.183	0.000	0.04
6.002	S602	960 minute 100 year Winter I+45%	32.600	31.397	0.342	0.000	0.04
5.002	S502	960 minute 100 year Winter I+45%	32.600	31.396	0.686	0.000	0.08
5.003	S503	960 minute 100 year Winter I+45%	32.500	31.395	0.735	0.000	0.06
7.000	S700	960 minute 100 year Winter I+45%	32.600	31.395	-0.005	0.000	0.04
7.001	S701	960 minute 100 year Winter I+45%	32.600	31.395	0.095	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.4	SURCHARGED
1.001	S101		1.7	SURCHARGED
1.002	S102		2.0	SURCHARGED
2.000	S200		1.4	SURCHARGED
2.001	S201		2.7	SURCHARGED
1.003	S103		3.3	OK
3.000	S300		6.1	OK
4.000	S400		4.8	OK
3.001	S301		10.7	SURCHARGED
1.004	S104		8.7	OK
5.000	S500		1.7	SURCHARGED
5.001	S501		2.0	SURCHARGED
6.000	S600		0.8	OK
6.001	S601		0.9	SURCHARGED
6.002	S602		2.2	SURCHARGED
5.002	S502		5.0	SURCHARGED
5.003	S503		5.0	SURCHARGED
7.000	S700		0.7	OK
7.001	S701		0.7	SURCHARGED

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.
5.004	S504	960 minute 100 year Winter I+45%	32.550	31.394	0.829	0.000	0.08
1.005	S105	960 minute 100 year Winter I+45%	32.380	31.393	0.923	0.000	0.08
8.000	S800	960 minute 100 year Winter I+45%	32.400	31.391	-0.084	0.000	0.04
1.006	S106	960 minute 100 year Winter I+45%	32.380	31.388	1.228	0.000	0.88
1.007	FW105	960 minute 100 year Winter I+45%	32.380	30.032	-0.103	0.000	0.22

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		6.2	SURCHARGED
1.005	S105		8.8	SURCHARGED
8.000	S800		3.0	OK
1.006	S106		9.6	SURCHARGED
1.007	FW105		9.6	OK

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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	0.000
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	2
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 0.360
Region	England and Wales	Cv (Summer)	1.000
M5-60 (mm)	18.000	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, 40, 45

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	S100	1440 minute 100 year Winter I+45%	32.600	31.261	-0.139	0.000	0.02
1.001	S101	1440 minute 100 year Winter I+45%	32.400	31.238	0.028	0.000	0.02
1.002	S102	1440 minute 100 year Winter I+45%	32.600	31.237	0.262	0.000	0.03
2.000	S200	1440 minute 100 year Winter I+45%	32.600	31.272	-0.128	0.000	0.05
2.001	S201	1440 minute 100 year Winter I+45%	32.500	31.237	0.207	0.000	0.04
1.003	S103	1440 minute 100 year Winter I+45%	32.380	31.235	-0.366	0.000	0.00
3.000	S300	1440 minute 100 year Winter I+45%	32.600	31.289	-0.261	0.000	0.04
4.000	S400	1440 minute 100 year Winter I+45%	32.600	31.284	-0.191	0.000	0.06
3.001	S301	1440 minute 100 year Winter I+45%	32.600	31.237	0.392	0.000	0.05
1.004	S104	1440 minute 100 year Winter I+45%	32.380	31.235	-0.186	0.000	0.00
5.000	S500	1440 minute 100 year Winter I+45%	32.600	31.275	-0.125	0.000	0.07
5.001	S501	1440 minute 100 year Winter I+45%	32.600	31.237	0.332	0.000	0.03
6.000	S600	1440 minute 100 year Winter I+45%	32.600	31.265	-0.135	0.000	0.02
6.001	S601	1440 minute 100 year Winter I+45%	32.600	31.238	0.023	0.000	0.03
6.002	S602	1440 minute 100 year Winter I+45%	32.600	31.237	0.182	0.000	0.03
5.002	S502	1440 minute 100 year Winter I+45%	32.600	31.236	0.526	0.000	0.06
5.003	S503	1440 minute 100 year Winter I+45%	32.500	31.235	0.575	0.000	0.05
7.000	S700	1440 minute 100 year Winter I+45%	32.600	31.267	-0.133	0.000	0.03
7.001	S701	1440 minute 100 year Winter I+45%	32.600	31.235	-0.065	0.000	0.01

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

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S100		0.3	OK
1.001	S101		1.2	SURCHARGED
1.002	S102		1.5	SURCHARGED
2.000	S200		1.0	OK
2.001	S201		2.0	SURCHARGED
1.003	S103		2.9	OK
3.000	S300		4.5	OK
4.000	S400		3.5	OK
3.001	S301		8.0	SURCHARGED
1.004	S104		7.4	OK
5.000	S500		1.2	OK
5.001	S501		1.5	SURCHARGED
6.000	S600		0.6	OK
6.001	S601		0.7	SURCHARGED
6.002	S602		1.6	SURCHARGED
5.002	S502		3.7	SURCHARGED
5.003	S503		3.6	SURCHARGED
7.000	S700		0.5	OK
7.001	S701		0.5	OK

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

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
5.004	S504	1440 minute 100 year Winter I+45%	32.550	31.234	0.669	0.000	0.06
1.005	S105	1440 minute 100 year Winter I+45%	32.380	31.233	0.763	0.000	0.07
8.000	S800	1440 minute 100 year Winter I+45%	32.400	31.276	-0.199	0.000	0.03
1.006	S106	1440 minute 100 year Winter I+45%	32.380	31.228	1.068	0.000	0.83
1.007	FW105	1440 minute 100 year Winter I+45%	32.380	30.031	-0.104	0.000	0.20

PN	US/MH Name	Overflow (l/s)	Pipe Flow (l/s)	Status
5.004	S504		4.5	SURCHARGED
1.005	S105		8.3	SURCHARGED
8.000	S800		2.2	OK
1.006	S106		9.0	SURCHARGED
1.007	FW105		9.0	OK

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