STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for NETWORK1-05.06.18.SWS

Pipe Sizes NETWORK1-05.06.18 Manhole Sizes NETWORK1-05.06.18

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	18.500	Add Flow / Climate Change (%)	0
Ratio R	0.334	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	5	Maximum Backdrop Height (m)	0.000
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)	0.75
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	25.108	0.251	100.0	0.068	5.00	0.0	0.600	o	225	Pipe/Conduit	
1.001	20.911	0.209	100.0	0.066	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.002	30.098	0.401	75.0	0.029	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.003	12.235	0.245	50.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.004	10.418	0.208	50.0	0.072	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	16.749	0.140	119.6	0.084	5.00	0.0	0.600	o	225	Pipe/Conduit	
2.001	18.091	0.154	117.5	0.042	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	21.803	0.131	166.9	0.017	5.00	15.0	0.600	o	225	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	5.00	5.32	83.325	0.068	0.0	0.0	0.0	1.31	52.0	0.9
1.001	5.00	5.59	83.074	0.134	0.0	0.0	0.0	1.31	52.0	1.8
1.002	5.00	5.92	82.865	0.163	0.0	0.0	0.0	1.51	60.1	2.2
1.003	5.00	6.03	82.464	0.163	0.0	0.0	0.0	1.85	73.7	2.2
1.004	5.00	6.12	82.219	0.235	0.0	0.0	0.0	1.85	73.7	3.2
2.000	5.00	5.23	81.273	0.084	0.0	0.0	0.0	1.19	47.5	1.1
2.001	5.00	5.44	81.058	0.126	0.0	0.0	0.0	1.45	102.5	1.7
3.000	5.00	5.36	81.110	0.017	15.0	0.0	0.0	1.01	40.1	15.2

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
2.002	9.488	0.039	245.2	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.003	9.725	0.040	245.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.005	10.657	0.040	265.1	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
1.006	12.479	0.047	264.9	0.014	0.00	0.0	0.600	o	375	Pipe/Conduit	
1.007	53.764	0.303	177.6	0.165	0.00	0.0	0.600	o	375	Pipe/Conduit	
4.000	24.071	0.301	80.0	0.039	5.00	0.0	0.600	o	225	Pipe/Conduit	
4.001	11.195	0.160	70.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
4.002	17.571	0.225	78.1	0.079	0.00	0.0	0.600	o	225	Pipe/Conduit	
4.003	18.912	0.107	176.7	0.063	0.00	0.0	0.600	o	300	Pipe/Conduit	
5.000	19.109	0.314	60.9	0.036	5.00	0.0	0.600	o	225	Pipe/Conduit	
5.001	38.566	0.430	89.7	0.073	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.008	33.285	0.666	50.0	0.090	0.00	0.0	0.600	o	375	Pipe/Conduit	
1.009	26.883	0.448	60.0	0.162	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.000	14.959	0.100	149.6	0.025	5.00	0.0	0.600	o	225	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)
2.002	5.00	5.60	80.904	0.143	15.0	0.0	0.0	1.00	70.7	16.9
2.003	5.00	5.76	80.866	0.143	15.0	0.0	0.0	1.00	70.7	16.9
1.005	5.00	6.28	80.751	0.378	15.0	0.0	0.0	1.11	122.4	20.1
1.006	5.00	6.47	80.711	0.392	15.0	0.0	0.0	1.11	122.4	20.3
1.007	5.00	7.13	80.664	0.557	15.0	0.0	0.0	1.36	149.8	22.5
4.000	5.00	5.27	81.304	0.039	0.0	0.0	0.0	1.46	58.2	0.5
4.001	5.00	5.39	81.003	0.039	0.0	0.0	0.0	1.57	62.2	0.5
4.002	5.00	5.59	80.843	0.118	0.0	0.0	0.0	1.48	58.9	1.6
4.003	5.00	5.86	80.543	0.181	0.0	0.0	0.0	1.18	83.4	2.5
5.000	5.00	5.19	81.255	0.036	0.0	0.0	0.0	1.68	66.8	0.5
5.001	5.00	5.65	80.941	0.109	0.0	0.0	0.0	1.38	54.9	1.5
1.008	5.00	7.35	80.361	0.937	15.0	0.0	0.0	2.57	283.7	27.7
1.009	5.00	7.52	79.620	1.099	15.0	0.0	0.0	2.63	418.0	29.9
6.000	5.00	5.23	79.878	0.025	0.0	0.0	0.0	1.07	42.4	0.3

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
6.001	13.567	0.090	150.1	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
6.002	19.616	0.131	150.0	0.138	0.00	0.0	0.600	o	225	Pipe/Conduit	
6.003	17.816	0.089	200.0	0.017	0.00	0.0	0.600	o	300	Pipe/Conduit	
6.004	14.120	0.071	198.9	0.061	0.00	0.0	0.600	o	300	Pipe/Conduit	
7.000	28.222	0.257	109.8	0.030	5.00	0.0	0.600	o	225	Pipe/Conduit	
7.001	28.869	0.270	106.8	0.058	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.010	47.578	0.521	91.3	0.028	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.011	19.635	0.078	251.7	0.107	0.00	0.0	0.600	o	600	Pipe/Conduit	
8.000	30.184	0.151	200.0	0.182	5.00	0.0	0.600	o	300	Pipe/Conduit	
8.001	14.646	0.073	200.1	0.039	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.012	50.117	0.125	400.9	0.123	0.00	0.0	0.600	o	750	Pipe/Conduit	
9.000	44.939	1.069	42.0	0.095	5.00	0.0	0.600	o	225	Pipe/Conduit	
10.000	27.347	0.164	167.0	0.034	5.00	0.0	0.600	o	225	Pipe/Conduit	
10.001	21.711	0.130	167.0	0.071	0.00	0.0	0.600	o	225	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)
6.001	5.00	5.45	79.778	0.025	0.0	0.0	0.0	1.06	42.3	0.3
6.002	5.00	5.75	79.688	0.163	0.0	0.0	0.0	1.07	42.4	2.2
6.003	5.00	6.02	79.482	0.180	0.0	0.0	0.0	1.11	78.3	2.4
6.004	5.00	6.23	79.393	0.241	0.0	0.0	0.0	1.11	78.6	3.3
7.000	5.00	5.38	79.924	0.030	0.0	0.0	0.0	1.25	49.6	0.4
7.001	5.00	5.76	79.667	0.088	0.0	0.0	0.0	1.26	50.3	1.2
1.010	5.00	7.86	79.097	1.456	15.0	0.0	0.0	2.34	507.6	34.7
1.011	5.00	8.07	78.501	1.563	15.0	0.0	0.0	1.53	432.7	36.2
8.000	5.00	5.45	78.947	0.182	0.0	0.0	0.0	1.11	78.3	2.5
8.001	5.00	5.67	78.796	0.221	0.0	0.0	0.0	1.11	78.3	3.0
1.012	5.00	8.67	78.273	1.907	15.0	0.0	0.0	1.39	614.7	40.8
9.000	5.00	5.37	82.533	0.095	0.0	0.0	0.0	2.02	80.5	1.3
10.000	5.00	5.45	81.758	0.034	0.0	0.0	0.0	1.01	40.1	0.5
10.001	5.00	5.81	81.594	0.105	0.0	0.0	0.0	1.01	40.1	1.4

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
9.001	18.238	0.182	100.0	0.019	0.00	0.0	0.600	o	225	Pipe/Conduit	
9.002	29.459	0.295	100.0	0.106	0.00	0.0	0.600	o	300	Pipe/Conduit	
9.003	31.745	0.397	80.0	0.124	0.00	0.0	0.600	o	300	Pipe/Conduit	
9.004	23.779	0.297	80.0	0.082	0.00	0.0	0.600	o	300	Pipe/Conduit	
9.005	10.711	0.458	23.4	0.099	0.00	0.0	0.600	o	300	Pipe/Conduit	
11.000	14.148	0.283	50.0	0.062	5.00	0.0	0.600	o	225	Pipe/Conduit	
11.001	49.807	0.651	76.5	0.057	0.00	0.0	0.600	o	225	Pipe/Conduit	
11.002	15.927	0.245	65.0	0.091	0.00	0.0	0.600	o	225	Pipe/Conduit	
11.003	17.713	0.533	33.2	0.051	0.00	0.0	0.600	o	225	Pipe/Conduit	
12.000	10.847	0.065	166.9	0.016	5.00	0.0	0.600	o	225	Pipe/Conduit	
11.004	23.917	0.239	100.0	0.024	0.00	0.0	0.600	o	300	Pipe/Conduit	
11.005	22.408	0.112	200.1	0.073	0.00	0.0	0.600	o	300	Pipe/Conduit	
13.000	12.911	0.172	75.0	0.084	5.00	0.0	0.600	o	225	Pipe/Conduit	
13.001	18.327	0.229	80.0	0.010	0.00	0.0	0.600	o	225	Pipe/Conduit	
13.002	13.234	0.165	80.0	0.013	0.00	0.0	0.600	o	225	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)
9.001	5.00	6.04	81.464	0.219	0.0	0.0	0.0	1.31	52.0	3.0
9.002	5.00	6.36	81.207	0.325	0.0	0.0	0.0	1.57	111.1	4.4
9.003	5.00	6.66	80.912	0.449	0.0	0.0	0.0	1.76	124.4	6.1
9.004	5.00	6.88	80.515	0.531	0.0	0.0	0.0	1.76	124.4	7.2
9.005	5.00	6.94	80.218	0.630	0.0	0.0	0.0	3.26	230.8	8.5
11.000	5.00	5.13	82.508	0.062	0.0	0.0	0.0	1.85	73.7	0.8
11.001	5.00	5.68	82.225	0.119	0.0	0.0	0.0	1.50	59.5	1.6
11.002	5.00	5.85	81.574	0.210	0.0	0.0	0.0	1.62	64.6	2.8
11.003	5.00	5.97	81.329	0.261	0.0	0.0	0.0	2.28	90.5	3.5
12.000	5.00	5.18	80.862	0.016	0.0	0.0	0.0	1.01	40.1	0.2
11.004	5.00	6.23	80.722	0.301	0.0	0.0	0.0	1.57	111.1	4.1
11.005	5.00	6.57	80.483	0.374	0.0	0.0	0.0	1.11	78.3	5.1
13.000	5.00	5.14	81.790	0.084	0.0	0.0	0.0	1.51	60.1	1.1
13.001	5.00	5.35	81.618	0.094	0.0	0.0	0.0	1.46	58.2	1.3
13.002	5.00	5.50	81.389	0.107	0.0	0.0	0.0	1.46	58.2	1.4

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
13.003	12.828	0.160	80.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
13.004	29.291	0.617	47.5	0.067	0.00	0.0	0.600	o	225	Pipe/Conduit	
11.006	10.309	0.071	145.2	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.007	20.024	0.100	200.0	0.022	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.008	21.151	0.106	199.9	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.009	19.314	0.097	199.9	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.010	27.769	0.139	200.1	0.076	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.011	19.661	0.098	200.0	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
9.006	45.767	0.458	100.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
9.007	28.346	0.284	100.0	0.044	0.00	0.0	0.600	o	450	Pipe/Conduit	
9.008	28.041	0.421	66.6	0.153	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.013	29.117	0.073	398.9	0.073	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.014	22.974	0.057	400.2	0.077	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.015	7.695	0.019	400.8	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.016	24.038	0.060	400.6	0.203	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.017	30.964	0.031	998.8	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.018	22.045	0.022	1002.0	0.000	0.00	0.0	0.600	o	750	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)
13.003	5.00	5.65	81.223	0.107	0.0	0.0	0.0	1.46	58.2	1.4
13.004	5.00	5.90	81.063	0.174	0.0	0.0	0.0	1.90	75.7	2.4
11.006	5.00	6.68	80.296	0.548	0.0	0.0	0.0	1.50	165.8	7.4
11.007	5.00	6.94	80.225	0.570	0.0	0.0	0.0	1.28	141.1	7.7
11.008	5.00	7.22	80.125	0.570	0.0	0.0	0.0	1.28	141.1	7.7
11.009	5.00	7.47	80.019	0.570	0.0	0.0	0.0	1.28	141.1	7.7
11.010	5.00	7.83	79.922	0.646	0.0	0.0	0.0	1.28	141.1	8.7
11.011	5.00	8.09	79.784	0.646	0.0	0.0	0.0	1.28	141.1	8.7
9.006	5.00	8.46	79.610	1.276	0.0	0.0	0.0	2.03	323.4	17.3
9.007	5.00	8.70	79.152	1.320	0.0	0.0	0.0	2.03	323.4	17.9
9.008	5.00	8.88	78.869	1.473	0.0	0.0	0.0	2.49	396.7	19.9
1.013	5.00	9.23	78.148	3.453	15.0	0.0	0.0	1.40	616.3	61.8
1.014	5.00	9.51	78.075	3.530	15.0	0.0	0.0	1.39	615.2	62.8
1.015	5.00	9.60	78.017	3.530	15.0	0.0	0.0	1.39	614.8	62.8
1.016	5.00	9.89	77.998	3.733	15.0	0.0	0.0	1.39	614.9	65.5
1.017	5.00	10.47	77.588	3.733	15.0	0.0	0.0	0.88	387.5	65.5
1.018	5.00	10.89	77.557	3.733	15.0	0.0	0.0	0.88	386.8	65.5

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.019	5.805	0.015	387.0	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.020	8.799	0.022	400.0	0.000	0.00	0.0	0.600	o	450	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)
1.019	5.00	10.96	77.535	3.733	15.0	0.0	0.0	1.42	625.8	65.5
1.020	5.00	11.11	77.520	3.733	15.0	0.0	0.0	1.01	160.7	65.5

Manhole Schedules for NETWORK1-05.06.18.SWS

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)
1	84.801	1.476	Open Manhole	1500	1.000	83.325	225				
2	84.553	1.479	Open Manhole	1500	1.001	83.074	225	1.000	83.074	225	
3	84.350	1.485	Open Manhole	1500	1.002	82.865	225	1.001	82.865	225	
4	83.908	1.445	Open Manhole	1500	1.003	82.464	225	1.002	82.464	225	
5	83.653	1.434	Open Manhole	1500	1.004	82.219	225	1.003	82.219	225	
6	82.698	1.425	Open Manhole	1500	2.000	81.273	225				
7	82.976	1.918	Open Manhole	1500	2.001	81.058	300	2.000	81.133	225	
8	83.319	2.209	Open Manhole	1500	3.000	81.110	225				
9	83.222	2.318	Open Manhole	1500	2.002	80.904	300	2.001	80.904	300	
								3.000	80.979	225	
10	83.218	2.352	Open Manhole	1500	2.003	80.866	300	2.002	80.866	300	
11	83.459	2.708	Open Manhole	1500	1.005	80.751	375	1.004	82.010	225	1109
								2.003	80.826	300	
12	83.254	2.543	Open Manhole	1800	1.006	80.711	375	1.005	80.711	375	
13	83.001	2.337	Open Manhole	1800	1.007	80.664	375	1.006	80.664	375	
14	82.729	1.425	Open Manhole	1500	4.000	81.304	225				
15	82.430	1.427	Open Manhole	1500	4.001	81.003	225	4.000	81.003	225	
16	82.268	1.425	Open Manhole	1500	4.002	80.843	225	4.001	80.843	225	
17	82.043	1.500	Open Manhole	1500	4.003	80.543	300	4.002	80.618	225	
18	82.680	1.425	Open Manhole	1500	5.000	81.255	225				
19	82.428	1.487	Open Manhole	1500	5.001	80.941	225	5.000	80.941	225	
20	82.039	1.678	Open Manhole	1800	1.008	80.361	375	1.007	80.361	375	
								4.003	80.436	300	
								5.001	80.511	225	
21	81.286	1.666	Open Manhole	1800	1.009	79.620	450	1.008	79.695	375	
22	81.613	1.735	Open Manhole	1500	6.000	79.878	225				
23	81.419	1.641	Open Manhole	1500	6.001	79.778	225	6.000	79.778	225	
24	81.283	1.596	Open Manhole	1500	6.002	79.688	225	6.001	79.688	225	
25	81.082	1.600	Open Manhole	1500	6.003	79.482	300	6.002	79.557	225	
26	80.898	1.505	Open Manhole	1500	6.004	79.393	300	6.003	79.393	300	
27	81.384	1.460	Open Manhole	1500	7.000	79.924	225				
28	81.069	1.402	Open Manhole	1500	7.001	79.667	225	7.000	79.667	225	
29	80.866	1.769	Open Manhole	2100	1.010	79.097	525	1.009	79.172	450	
								6.004	79.322	300	

Manhole Schedules for NETWORK1-05.06.18.SWS

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)
								7.001	79.397	225	
30	80.301	1.800	Open Manhole	2100	1.011	78.501	600	1.010	78.576	525	
31	80.640	1.693	Open Manhole	1500	8.000	78.947	300				
32	80.403	1.607	Open Manhole	1800	8.001	78.796	300	8.000	78.796	300	
33	80.263	1.990	Open Manhole	2100	1.012	78.273	750	1.011	78.423	600	
								8.001	78.723	300	
34	83.961	1.428	Open Manhole	1500	9.000	82.533	225				
35	83.183	1.425	Open Manhole	1500	10.000	81.758	225				
36	83.244	1.650	Open Manhole	1500	10.001	81.594	225	10.000	81.594	225	
37	83.209	1.745	Open Manhole	1500	9.001	81.464	225	9.000	81.464	225	
								10.001	81.464	225	
38	82.841	1.634	Open Manhole	1500	9.002	81.207	300	9.001	81.282	225	
39	82.541	1.629	Open Manhole	1500	9.003	80.912	300	9.002	80.912	300	
40	82.099	1.584	Open Manhole	1500	9.004	80.515	300	9.003	80.515	300	
41	81.777	1.559	Open Manhole	1800	9.005	80.218	300	9.004	80.218	300	
42a	83.933	1.425	Open Manhole	1200	11.000	82.508	225				
42	83.651	1.426	Open Manhole	1500	11.001	82.225	225	11.000	82.225	225	
43	83.024	1.450	Open Manhole	1500	11.002	81.574	225	11.001	81.574	225	
44	82.756	1.427	Open Manhole	1500	11.003	81.329	225	11.002	81.329	225	
45	82.287	1.425	Open Manhole	1500	12.000	80.862	225				
46	82.461	1.739	Open Manhole	1500	11.004	80.722	300	11.003	80.796	225	
								12.000	80.797	225	
47	81.992	1.509	Open Manhole	1500	11.005	80.483	300	11.004	80.483	300	
48	83.215	1.425	Open Manhole	1500	13.000	81.790	225				
49	83.048	1.430	Open Manhole	1500	13.001	81.618	225	13.000	81.618	225	
50	82.826	1.437	Open Manhole	1500	13.002	81.389	225	13.001	81.389	225	
51	82.660	1.437	Open Manhole	1500	13.003	81.223	225	13.002	81.223	225	
52	82.491	1.428	Open Manhole	1500	13.004	81.063	225	13.003	81.063	225	
53	82.123	1.827	Open Manhole	1800	11.006	80.296	375	11.005	80.371	300	
								13.004	80.446	225	
54	81.993	1.768	Open Manhole	1800	11.007	80.225	375	11.006	80.225	375	
55	81.700	1.575	Open Manhole	1800	11.008	80.125	375	11.007	80.125	375	
56	81.650	1.631	Open Manhole	1800	11.009	80.019	375	11.008	80.019	375	
57	81.650	1.728	Open Manhole	1800	11.010	79.922	375	11.009	79.922	375	

Manhole Schedules for NETWORK1-05.06.18.SWS

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)
58	81.700	1.917	Open Manhole	1800	11.011	79.784	375	11.010	79.784	375	
59	81.281	1.671	Open Manhole	1800	9.006	79.610	450	9.005	79.760	300	
								11.011	79.685	375	
60	81.062	1.909	Open Manhole	1800	9.007	79.152	450	9.006	79.152	450	
61	80.715	1.846	Open Manhole	1800	9.008	78.869	450	9.007	78.869	450	
62	80.431	2.283	Open Manhole	2400	1.013	78.148	750	1.012	78.148	750	
								9.008	78.448	450	
63	80.190	2.116	Open Manhole	2400	1.014	78.075	750	1.013	78.075	750	
64	80.069	2.051	Open Manhole	2400	1.015	78.017	750	1.014	78.017	750	
65	80.163	2.165	Open Manhole	2400	1.016	77.998	750	1.015	77.998	750	
66	80.000	2.412	Open Manhole	2400	1.017	77.588	750	1.016	77.938	750	350
67	79.750	2.193	Open Manhole	2400	1.018	77.557	750	1.017	77.557	750	
68	79.750	2.215	Open Manhole	2400	1.019	77.535	750	1.018	77.535	750	
69	79.750	2.230	Open Manhole	2400	1.020	77.520	450	1.019	77.520	750	
70	79.000	1.502	Open Manhole	1200		OUTFALL		1.020	77.498	450	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
1	359947.845	436053.181	359947.845	436053.181	Required	
2	359966.892	436036.822	359966.892	436036.822	Required	
3	359981.375	436021.738	359981.375	436021.738	Required	
4	360004.864	436002.920	360004.864	436002.920	Required	
5	360015.452	435996.788	360015.452	435996.788	Required	
6	360067.539	435978.372	360067.539	435978.372	Required	

Manhole Schedules for NETWORK1-05.06.18.SWS

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
7	360052.490	435985.724	360052.490	435985.724	Required	
8	360051.756	436014.135	360051.756	436014.135	Required	
9	360038.316	435996.967	360038.316	435996.967	Required	
10	360030.828	435991.141	360030.828	435991.141	Required	
11	360021.521	435988.320	360021.521	435988.320	Required	
12	360024.541	435978.099	360024.541	435978.099	Required	
13	360023.898	435965.637	360023.898	435965.637	Required	
14	360060.823	435921.853	360060.823	435921.853	Required	
15	360043.354	435905.293	360043.354	435905.293	Required	
16	360032.562	435902.316	360032.562	435902.316	Required	
17	360016.414	435909.243	360016.414	435909.243	Required	
18	359946.915	435940.549	359946.915	435940.549	Required	
19	359965.405	435935.730	359965.405	435935.730	Required	
20	359999.509	435917.723	359999.509	435917.723	Required	

Manhole Schedules for NETWORK1-05.06.18.SWS

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
21	359984.154	435888.192	359984.154	435888.192	Required	
22	359900.073	435894.844	359900.073	435894.844	Required	
23	359910.360	435883.983	359910.360	435883.983	Required	
24	359923.016	435879.097	359923.016	435879.097	Required	
25	359942.601	435877.990	359942.601	435877.990	Required	
26	359959.177	435871.458	359959.177	435871.458	Required	
27	360022.333	435838.584	360022.333	435838.584	Required	
28	359997.158	435851.339	359997.158	435851.339	Required	
29	359971.461	435864.495	359971.461	435864.495	Required	
30	359949.349	435822.367	359949.349	435822.367	Required	
31	359969.605	435771.758	359969.605	435771.758	Required	
32	359953.385	435797.213	359953.385	435797.213	Required	
33	359940.794	435804.694	359940.794	435804.694	Required	
34	359886.441	436021.142	359886.441	436021.142	Required	

Manhole Schedules for NETWORK1-05.06.18.SWS

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
35	359910.051	435958.256	359910.051	435958.256	Required	
36	359885.734	435970.767	359885.734	435970.767	Required	
37	359866.513	435980.863	359866.513	435980.863	Required	
38	359854.131	435967.472	359854.131	435967.472	Required	
39	359828.397	435953.134	359828.397	435953.134	Required	
40	359843.093	435924.995	359843.093	435924.995	Required	
41	359848.620	435901.868	359848.620	435901.868	Required	
42a	359814.962	436050.500	359814.962	436050.500	Required	
42	359825.896	436041.522	359825.896	436041.522	Required	
43	359803.505	435997.032	359803.505	435997.032	Required	
44	359794.634	435983.805	359794.634	435983.805	Required	
45	359789.608	435962.633	359789.608	435962.633	Required	
46	359782.542	435970.862	359782.542	435970.862	Required	
47	359763.058	435956.991	359763.058	435956.991	Required	

Manhole Schedules for NETWORK1-05.06.18.SWS

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
48	359754.952	436026.370	359754.952	436026.370	Required	
49	359748.639	436015.107	359748.639	436015.107	Required	
50	359737.430	436000.607	359737.430	436000.607	Required	
51	359732.009	435988.534	359732.009	435988.534	Required	
52	359731.963	435975.706	359731.963	435975.706	Required	
53	359742.390	435948.334	359742.390	435948.334	Required	
54	359746.326	435938.806	359746.326	435938.806	Required	
55	359757.567	435922.235	359757.567	435922.235	Required	
56	359773.951	435908.859	359773.951	435908.859	Required	
57	359791.337	435900.447	359791.337	435900.447	Required	
58	359818.810	435896.406	359818.810	435896.406	Required	
59	359838.299	435899.000	359838.299	435899.000	Required	
60	359847.459	435854.159	359847.459	435854.159	Required	
61	359869.140	435835.899	359869.140	435835.899	Required	

Manhole Schedules for NETWORK1-05.06.18.SWS

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
62	359894.684	435824.331	359894.684	435824.331	Required	
63	359882.868	435797.720	359882.868	435797.720	Required	
64	359873.982	435776.534	359873.982	435776.534	Required	
65	359873.396	435768.861	359873.396	435768.861	Required	
66	359881.917	435746.384	359881.917	435746.384	Required	
67	359903.272	435723.963	359903.272	435723.963	Required	
68	359914.269	435704.857	359914.269	435704.857	Required	
69	359917.409	435699.975	359917.409	435699.975	Required	
70	359922.513	435692.809			No Entry	

PIPELINE SCHEDULES for NETWORK1-05.06.18.SWS

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	225	1	84.801	83.325	1.251	Open Manhole	1500
1.001	o	225	2	84.553	83.074	1.254	Open Manhole	1500
1.002	o	225	3	84.350	82.865	1.260	Open Manhole	1500
1.003	o	225	4	83.908	82.464	1.220	Open Manhole	1500
1.004	o	225	5	83.653	82.219	1.209	Open Manhole	1500
2.000	o	225	6	82.698	81.273	1.200	Open Manhole	1500
2.001	o	300	7	82.976	81.058	1.618	Open Manhole	1500
3.000	o	225	8	83.319	81.110	1.984	Open Manhole	1500
2.002	o	300	9	83.222	80.904	2.018	Open Manhole	1500
2.003	o	300	10	83.218	80.866	2.052	Open Manhole	1500
1.005	o	375	11	83.459	80.751	2.333	Open Manhole	1500
1.006	o	375	12	83.254	80.711	2.168	Open Manhole	1800
1.007	o	375	13	83.001	80.664	1.962	Open Manhole	1800

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	25.108	100.0	2	84.553	83.074	1.254	Open Manhole	1500
1.001	20.911	100.0	3	84.350	82.865	1.260	Open Manhole	1500
1.002	30.098	75.0	4	83.908	82.464	1.220	Open Manhole	1500
1.003	12.235	50.0	5	83.653	82.219	1.209	Open Manhole	1500
1.004	10.418	50.0	11	83.459	82.010	1.224	Open Manhole	1500
2.000	16.749	119.6	7	82.976	81.133	1.618	Open Manhole	1500
2.001	18.091	117.5	9	83.222	80.904	2.018	Open Manhole	1500
3.000	21.803	166.9	9	83.222	80.979	2.018	Open Manhole	1500
2.002	9.488	245.2	10	83.218	80.866	2.052	Open Manhole	1500
2.003	9.725	245.0	11	83.459	80.826	2.333	Open Manhole	1500
1.005	10.657	265.1	12	83.254	80.711	2.168	Open Manhole	1800
1.006	12.479	264.9	13	83.001	80.664	1.962	Open Manhole	1800
1.007	53.764	177.6	20	82.039	80.361	1.303	Open Manhole	1800

PIPELINE SCHEDULES for NETWORK1-05.06.18.SWS

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)
4.000	o	225	14	82.729	81.304	1.200	Open Manhole	1500
4.001	o	225	15	82.430	81.003	1.202	Open Manhole	1500
4.002	o	225	16	82.268	80.843	1.200	Open Manhole	1500
4.003	o	300	17	82.043	80.543	1.200	Open Manhole	1500
5.000	o	225	18	82.680	81.255	1.200	Open Manhole	1500
5.001	o	225	19	82.428	80.941	1.262	Open Manhole	1500
1.008	o	375	20	82.039	80.361	1.303	Open Manhole	1800
1.009	o	450	21	81.286	79.620	1.216	Open Manhole	1800
6.000	o	225	22	81.613	79.878	1.510	Open Manhole	1500
6.001	o	225	23	81.419	79.778	1.416	Open Manhole	1500
6.002	o	225	24	81.283	79.688	1.371	Open Manhole	1500
6.003	o	300	25	81.082	79.482	1.300	Open Manhole	1500
6.004	o	300	26	80.898	79.393	1.205	Open Manhole	1500
7.000	o	225	27	81.384	79.924	1.235	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
4.000	24.071	80.0	15	82.430	81.003	1.202	Open Manhole	1500
4.001	11.195	70.0	16	82.268	80.843	1.200	Open Manhole	1500
4.002	17.571	78.1	17	82.043	80.618	1.200	Open Manhole	1500
4.003	18.912	176.7	20	82.039	80.436	1.303	Open Manhole	1800
5.000	19.109	60.9	19	82.428	80.941	1.262	Open Manhole	1500
5.001	38.566	89.7	20	82.039	80.511	1.303	Open Manhole	1800
1.008	33.285	50.0	21	81.286	79.695	1.216	Open Manhole	1800
1.009	26.883	60.0	29	80.866	79.172	1.244	Open Manhole	2100
6.000	14.959	149.6	23	81.419	79.778	1.416	Open Manhole	1500
6.001	13.567	150.1	24	81.283	79.688	1.371	Open Manhole	1500
6.002	19.616	150.0	25	81.082	79.557	1.300	Open Manhole	1500
6.003	17.816	200.0	26	80.898	79.393	1.205	Open Manhole	1500
6.004	14.120	198.9	29	80.866	79.322	1.244	Open Manhole	2100
7.000	28.222	109.8	28	81.069	79.667	1.177	Open Manhole	1500

PIPELINE SCHEDULES for NETWORK1-05.06.18.SWS

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)
7.001	o	225	28	81.069	79.667	1.177	Open Manhole	1500
1.010	o	525	29	80.866	79.097	1.244	Open Manhole	2100
1.011	o	600	30	80.301	78.501	1.200	Open Manhole	2100
8.000	o	300	31	80.640	78.947	1.393	Open Manhole	1500
8.001	o	300	32	80.403	78.796	1.307	Open Manhole	1800
1.012	o	750	33	80.263	78.273	1.240	Open Manhole	2100
9.000	o	225	34	83.961	82.533	1.203	Open Manhole	1500
10.000	o	225	35	83.183	81.758	1.200	Open Manhole	1500
10.001	o	225	36	83.244	81.594	1.425	Open Manhole	1500
9.001	o	225	37	83.209	81.464	1.520	Open Manhole	1500
9.002	o	300	38	82.841	81.207	1.334	Open Manhole	1500
9.003	o	300	39	82.541	80.912	1.329	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.001	28.869	106.8	29	80.866	79.397	1.244	Open Manhole	2100
1.010	47.578	91.3	30	80.301	78.576	1.200	Open Manhole	2100
1.011	19.635	251.7	33	80.263	78.423	1.240	Open Manhole	2100
8.000	30.184	200.0	32	80.403	78.796	1.307	Open Manhole	1800
8.001	14.646	200.1	33	80.263	78.723	1.240	Open Manhole	2100
1.012	50.117	400.9	62	80.431	78.148	1.533	Open Manhole	2400
9.000	44.939	42.0	37	83.209	81.464	1.520	Open Manhole	1500
10.000	27.347	167.0	36	83.244	81.594	1.425	Open Manhole	1500
10.001	21.711	167.0	37	83.209	81.464	1.520	Open Manhole	1500
9.001	18.238	100.0	38	82.841	81.282	1.334	Open Manhole	1500
9.002	29.459	100.0	39	82.541	80.912	1.329	Open Manhole	1500
9.003	31.745	80.0	40	82.099	80.515	1.284	Open Manhole	1500

PIPELINE SCHEDULES for NETWORK1-05.06.18.SWS

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)
9.004	o	300	40	82.099	80.515	1.284	Open Manhole	1500
9.005	o	300	41	81.777	80.218	1.259	Open Manhole	1800
11.000	o	225	42a	83.933	82.508	1.200	Open Manhole	1200
11.001	o	225	42	83.651	82.225	1.201	Open Manhole	1500
11.002	o	225	43	83.024	81.574	1.225	Open Manhole	1500
11.003	o	225	44	82.756	81.329	1.202	Open Manhole	1500
12.000	o	225	45	82.287	80.862	1.200	Open Manhole	1500
11.004	o	300	46	82.461	80.722	1.439	Open Manhole	1500
11.005	o	300	47	81.992	80.483	1.209	Open Manhole	1500
13.000	o	225	48	83.215	81.790	1.200	Open Manhole	1500
13.001	o	225	49	83.048	81.618	1.205	Open Manhole	1500
13.002	o	225	50	82.826	81.389	1.212	Open Manhole	1500
13.003	o	225	51	82.660	81.223	1.212	Open Manhole	1500
13.004	o	225	52	82.491	81.063	1.203	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
9.004	23.779	80.0	41	81.777	80.218	1.259	Open Manhole	1800
9.005	10.711	23.4	59	81.281	79.760	1.221	Open Manhole	1800
11.000	14.148	50.0	42	83.651	82.225	1.201	Open Manhole	1500
11.001	49.807	76.5	43	83.024	81.574	1.225	Open Manhole	1500
11.002	15.927	65.0	44	82.756	81.329	1.202	Open Manhole	1500
11.003	17.713	33.2	46	82.461	80.796	1.440	Open Manhole	1500
12.000	10.847	166.9	46	82.461	80.797	1.439	Open Manhole	1500
11.004	23.917	100.0	47	81.992	80.483	1.209	Open Manhole	1500
11.005	22.408	200.1	53	82.123	80.371	1.452	Open Manhole	1800
13.000	12.911	75.0	49	83.048	81.618	1.205	Open Manhole	1500
13.001	18.327	80.0	50	82.826	81.389	1.212	Open Manhole	1500
13.002	13.234	80.0	51	82.660	81.223	1.212	Open Manhole	1500
13.003	12.828	80.0	52	82.491	81.063	1.203	Open Manhole	1500
13.004	29.291	47.5	53	82.123	80.446	1.452	Open Manhole	1800

PIPELINE SCHEDULES for NETWORK1-05.06.18.SWS

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)
11.006	o	375	53	82.123	80.296	1.452	Open Manhole	1800
11.007	o	375	54	81.993	80.225	1.393	Open Manhole	1800
11.008	o	375	55	81.700	80.125	1.200	Open Manhole	1800
11.009	o	375	56	81.650	80.019	1.256	Open Manhole	1800
11.010	o	375	57	81.650	79.922	1.353	Open Manhole	1800
11.011	o	375	58	81.700	79.784	1.542	Open Manhole	1800
9.006	o	450	59	81.281	79.610	1.221	Open Manhole	1800
9.007	o	450	60	81.062	79.152	1.459	Open Manhole	1800
9.008	o	450	61	80.715	78.869	1.396	Open Manhole	1800
1.013	o	750	62	80.431	78.148	1.533	Open Manhole	2400
1.014	o	750	63	80.190	78.075	1.366	Open Manhole	2400
1.015	o	750	64	80.069	78.017	1.301	Open Manhole	2400
1.016	o	750	65	80.163	77.998	1.415	Open Manhole	2400
1.017	o	750	66	80.000	77.588	1.662	Open Manhole	2400
1.018	o	750	67	79.750	77.557	1.443	Open Manhole	2400

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)
11.006	10.309	145.2	54	81.993	80.225	1.393	Open Manhole	1800
11.007	20.024	200.0	55	81.700	80.125	1.200	Open Manhole	1800
11.008	21.151	199.9	56	81.650	80.019	1.256	Open Manhole	1800
11.009	19.314	199.9	57	81.650	79.922	1.353	Open Manhole	1800
11.010	27.769	200.1	58	81.700	79.784	1.541	Open Manhole	1800
11.011	19.661	200.0	59	81.281	79.685	1.221	Open Manhole	1800
9.006	45.767	100.0	60	81.062	79.152	1.459	Open Manhole	1800
9.007	28.346	100.0	61	80.715	78.869	1.396	Open Manhole	1800
9.008	28.041	66.6	62	80.431	78.448	1.533	Open Manhole	2400
1.013	29.117	398.9	63	80.190	78.075	1.366	Open Manhole	2400
1.014	22.974	400.2	64	80.069	78.017	1.301	Open Manhole	2400
1.015	7.695	400.8	65	80.163	77.998	1.414	Open Manhole	2400
1.016	24.038	400.6	66	80.000	77.938	1.312	Open Manhole	2400
1.017	30.964	998.8	67	79.750	77.557	1.443	Open Manhole	2400
1.018	22.045	1002.0	68	79.750	77.535	1.465	Open Manhole	2400

PIPELINE SCHEDULES for NETWORK1-05.06.18.SWS

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)
1.019	o	750	68	79.750	77.535	1.465	Open Manhole	2400
1.020	o	450	69	79.750	77.520	1.780	Open Manhole	2400

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)
1.019	5.805	387.0	69	79.750	77.520	1.480	Open Manhole	2400
1.020	8.799	400.0	70	79.000	77.498	1.052	Open Manhole	1200

Surcharged Outfall Details for NETWORK1-05.06.18.SWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.020	70	79.000	77.498	0.000	1200	0

Datum (m) 77.498 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
1	1.000	18	1.000	35	1.000	52	1.000	69	1.000	86	1.000	103	1.000
2	1.000	19	1.000	36	1.000	53	1.000	70	1.000	87	1.000	104	1.000
3	1.000	20	1.000	37	1.000	54	1.000	71	1.000	88	1.000	105	1.000
4	1.000	21	1.000	38	1.000	55	1.000	72	1.000	89	1.000	106	1.000
5	1.000	22	1.000	39	1.000	56	1.000	73	1.000	90	1.000	107	1.000
6	1.000	23	1.000	40	1.000	57	1.000	74	1.000	91	1.000	108	1.000
7	1.000	24	1.000	41	1.000	58	1.000	75	1.000	92	1.000	109	1.000
8	1.000	25	1.000	42	1.000	59	1.000	76	1.000	93	1.000	110	1.000
9	1.000	26	1.000	43	1.000	60	1.000	77	1.000	94	1.000	111	1.000
10	1.000	27	1.000	44	1.000	61	1.000	78	1.000	95	1.000	112	1.000
11	1.000	28	1.000	45	1.000	62	1.000	79	1.000	96	1.000	113	1.000
12	1.000	29	1.000	46	1.000	63	1.000	80	1.000	97	1.000	114	1.000
13	1.000	30	1.000	47	1.000	64	1.000	81	1.000	98	1.000	115	1.000
14	1.000	31	1.000	48	1.000	65	1.000	82	1.000	99	1.000	116	1.000
15	1.000	32	1.000	49	1.000	66	1.000	83	1.000	100	1.000	117	1.000
16	1.000	33	1.000	50	1.000	67	1.000	84	1.000	101	1.000	118	1.000
17	1.000	34	1.000	51	1.000	68	1.000	85	1.000	102	1.000	119	1.000

Surcharged Outfall Details for NETWORK1-05.06.18.SWS

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
120	1.000	165	1.000	210	1.000	255	1.000	300	1.000	345	1.000	390	1.000
121	1.000	166	1.000	211	1.000	256	1.000	301	1.000	346	1.000	391	1.000
122	1.000	167	1.000	212	1.000	257	1.000	302	1.000	347	1.000	392	1.000
123	1.000	168	1.000	213	1.000	258	1.000	303	1.000	348	1.000	393	1.000
124	1.000	169	1.000	214	1.000	259	1.000	304	1.000	349	1.000	394	1.000
125	1.000	170	1.000	215	1.000	260	1.000	305	1.000	350	1.000	395	1.000
126	1.000	171	1.000	216	1.000	261	1.000	306	1.000	351	1.000	396	1.000
127	1.000	172	1.000	217	1.000	262	1.000	307	1.000	352	1.000	397	1.000
128	1.000	173	1.000	218	1.000	263	1.000	308	1.000	353	1.000	398	1.000
129	1.000	174	1.000	219	1.000	264	1.000	309	1.000	354	1.000	399	1.000
130	1.000	175	1.000	220	1.000	265	1.000	310	1.000	355	1.000	400	1.000
131	1.000	176	1.000	221	1.000	266	1.000	311	1.000	356	1.000	401	1.000
132	1.000	177	1.000	222	1.000	267	1.000	312	1.000	357	1.000	402	1.000
133	1.000	178	1.000	223	1.000	268	1.000	313	1.000	358	1.000	403	1.000
134	1.000	179	1.000	224	1.000	269	1.000	314	1.000	359	1.000	404	1.000
135	1.000	180	1.000	225	1.000	270	1.000	315	1.000	360	1.000	405	1.000
136	1.000	181	1.000	226	1.000	271	1.000	316	1.000	361	1.000	406	1.000
137	1.000	182	1.000	227	1.000	272	1.000	317	1.000	362	1.000	407	1.000
138	1.000	183	1.000	228	1.000	273	1.000	318	1.000	363	1.000	408	1.000
139	1.000	184	1.000	229	1.000	274	1.000	319	1.000	364	1.000	409	1.000
140	1.000	185	1.000	230	1.000	275	1.000	320	1.000	365	1.000	410	1.000
141	1.000	186	1.000	231	1.000	276	1.000	321	1.000	366	1.000	411	1.000
142	1.000	187	1.000	232	1.000	277	1.000	322	1.000	367	1.000	412	1.000
143	1.000	188	1.000	233	1.000	278	1.000	323	1.000	368	1.000	413	1.000
144	1.000	189	1.000	234	1.000	279	1.000	324	1.000	369	1.000	414	1.000
145	1.000	190	1.000	235	1.000	280	1.000	325	1.000	370	1.000	415	1.000
146	1.000	191	1.000	236	1.000	281	1.000	326	1.000	371	1.000	416	1.000
147	1.000	192	1.000	237	1.000	282	1.000	327	1.000	372	1.000	417	1.000
148	1.000	193	1.000	238	1.000	283	1.000	328	1.000	373	1.000	418	1.000
149	1.000	194	1.000	239	1.000	284	1.000	329	1.000	374	1.000	419	1.000
150	1.000	195	1.000	240	1.000	285	1.000	330	1.000	375	1.000	420	1.000
151	1.000	196	1.000	241	1.000	286	1.000	331	1.000	376	1.000	421	1.000
152	1.000	197	1.000	242	1.000	287	1.000	332	1.000	377	1.000	422	1.000
153	1.000	198	1.000	243	1.000	288	1.000	333	1.000	378	1.000	423	1.000
154	1.000	199	1.000	244	1.000	289	1.000	334	1.000	379	1.000	424	1.000
155	1.000	200	1.000	245	1.000	290	1.000	335	1.000	380	1.000	425	1.000
156	1.000	201	1.000	246	1.000	291	1.000	336	1.000	381	1.000	426	1.000
157	1.000	202	1.000	247	1.000	292	1.000	337	1.000	382	1.000	427	1.000
158	1.000	203	1.000	248	1.000	293	1.000	338	1.000	383	1.000	428	1.000
159	1.000	204	1.000	249	1.000	294	1.000	339	1.000	384	1.000	429	1.000
160	1.000	205	1.000	250	1.000	295	1.000	340	1.000	385	1.000	430	1.000
161	1.000	206	1.000	251	1.000	296	1.000	341	1.000	386	1.000	431	1.000
162	1.000	207	1.000	252	1.000	297	1.000	342	1.000	387	1.000	432	1.000
163	1.000	208	1.000	253	1.000	298	1.000	343	1.000	388	1.000	433	1.000
164	1.000	209	1.000	254	1.000	299	1.000	344	1.000	389	1.000	434	1.000

Surcharged Outfall Details for NETWORK1-05.06.18.SWS

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
435	1.000	480	1.000	525	1.000	570	1.000	615	1.000	660	1.000	705	1.000
436	1.000	481	1.000	526	1.000	571	1.000	616	1.000	661	1.000	706	1.000
437	1.000	482	1.000	527	1.000	572	1.000	617	1.000	662	1.000	707	1.000
438	1.000	483	1.000	528	1.000	573	1.000	618	1.000	663	1.000	708	1.000
439	1.000	484	1.000	529	1.000	574	1.000	619	1.000	664	1.000	709	1.000
440	1.000	485	1.000	530	1.000	575	1.000	620	1.000	665	1.000	710	1.000
441	1.000	486	1.000	531	1.000	576	1.000	621	1.000	666	1.000	711	1.000
442	1.000	487	1.000	532	1.000	577	1.000	622	1.000	667	1.000	712	1.000
443	1.000	488	1.000	533	1.000	578	1.000	623	1.000	668	1.000	713	1.000
444	1.000	489	1.000	534	1.000	579	1.000	624	1.000	669	1.000	714	1.000
445	1.000	490	1.000	535	1.000	580	1.000	625	1.000	670	1.000	715	1.000
446	1.000	491	1.000	536	1.000	581	1.000	626	1.000	671	1.000	716	1.000
447	1.000	492	1.000	537	1.000	582	1.000	627	1.000	672	1.000	717	1.000
448	1.000	493	1.000	538	1.000	583	1.000	628	1.000	673	1.000	718	1.000
449	1.000	494	1.000	539	1.000	584	1.000	629	1.000	674	1.000	719	1.000
450	1.000	495	1.000	540	1.000	585	1.000	630	1.000	675	1.000	720	1.000
451	1.000	496	1.000	541	1.000	586	1.000	631	1.000	676	1.000	721	1.000
452	1.000	497	1.000	542	1.000	587	1.000	632	1.000	677	1.000	722	1.000
453	1.000	498	1.000	543	1.000	588	1.000	633	1.000	678	1.000	723	1.000
454	1.000	499	1.000	544	1.000	589	1.000	634	1.000	679	1.000	724	1.000
455	1.000	500	1.000	545	1.000	590	1.000	635	1.000	680	1.000	725	1.000
456	1.000	501	1.000	546	1.000	591	1.000	636	1.000	681	1.000	726	1.000
457	1.000	502	1.000	547	1.000	592	1.000	637	1.000	682	1.000	727	1.000
458	1.000	503	1.000	548	1.000	593	1.000	638	1.000	683	1.000	728	1.000
459	1.000	504	1.000	549	1.000	594	1.000	639	1.000	684	1.000	729	1.000
460	1.000	505	1.000	550	1.000	595	1.000	640	1.000	685	1.000	730	1.000
461	1.000	506	1.000	551	1.000	596	1.000	641	1.000	686	1.000	731	1.000
462	1.000	507	1.000	552	1.000	597	1.000	642	1.000	687	1.000	732	1.000
463	1.000	508	1.000	553	1.000	598	1.000	643	1.000	688	1.000	733	1.000
464	1.000	509	1.000	554	1.000	599	1.000	644	1.000	689	1.000	734	1.000
465	1.000	510	1.000	555	1.000	600	1.000	645	1.000	690	1.000	735	1.000
466	1.000	511	1.000	556	1.000	601	1.000	646	1.000	691	1.000	736	1.000
467	1.000	512	1.000	557	1.000	602	1.000	647	1.000	692	1.000	737	1.000
468	1.000	513	1.000	558	1.000	603	1.000	648	1.000	693	1.000	738	1.000
469	1.000	514	1.000	559	1.000	604	1.000	649	1.000	694	1.000	739	1.000
470	1.000	515	1.000	560	1.000	605	1.000	650	1.000	695	1.000	740	1.000
471	1.000	516	1.000	561	1.000	606	1.000	651	1.000	696	1.000	741	1.000
472	1.000	517	1.000	562	1.000	607	1.000	652	1.000	697	1.000	742	1.000
473	1.000	518	1.000	563	1.000	608	1.000	653	1.000	698	1.000	743	1.000
474	1.000	519	1.000	564	1.000	609	1.000	654	1.000	699	1.000	744	1.000
475	1.000	520	1.000	565	1.000	610	1.000	655	1.000	700	1.000	745	1.000
476	1.000	521	1.000	566	1.000	611	1.000	656	1.000	701	1.000	746	1.000
477	1.000	522	1.000	567	1.000	612	1.000	657	1.000	702	1.000	747	1.000
478	1.000	523	1.000	568	1.000	613	1.000	658	1.000	703	1.000	748	1.000
479	1.000	524	1.000	569	1.000	614	1.000	659	1.000	704	1.000	749	1.000

Surcharged Outfall Details for NETWORK1-05.06.18.SWS

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
750	1.000	781	1.000	812	1.000	843	1.000	874	1.000	905	1.000	936	1.000
751	1.000	782	1.000	813	1.000	844	1.000	875	1.000	906	1.000	937	1.000
752	1.000	783	1.000	814	1.000	845	1.000	876	1.000	907	1.000	938	1.000
753	1.000	784	1.000	815	1.000	846	1.000	877	1.000	908	1.000	939	1.000
754	1.000	785	1.000	816	1.000	847	1.000	878	1.000	909	1.000	940	1.000
755	1.000	786	1.000	817	1.000	848	1.000	879	1.000	910	1.000	941	1.000
756	1.000	787	1.000	818	1.000	849	1.000	880	1.000	911	1.000	942	1.000
757	1.000	788	1.000	819	1.000	850	1.000	881	1.000	912	1.000	943	1.000
758	1.000	789	1.000	820	1.000	851	1.000	882	1.000	913	1.000	944	1.000
759	1.000	790	1.000	821	1.000	852	1.000	883	1.000	914	1.000	945	1.000
760	1.000	791	1.000	822	1.000	853	1.000	884	1.000	915	1.000	946	1.000
761	1.000	792	1.000	823	1.000	854	1.000	885	1.000	916	1.000	947	1.000
762	1.000	793	1.000	824	1.000	855	1.000	886	1.000	917	1.000	948	1.000
763	1.000	794	1.000	825	1.000	856	1.000	887	1.000	918	1.000	949	1.000
764	1.000	795	1.000	826	1.000	857	1.000	888	1.000	919	1.000	950	1.000
765	1.000	796	1.000	827	1.000	858	1.000	889	1.000	920	1.000	951	1.000
766	1.000	797	1.000	828	1.000	859	1.000	890	1.000	921	1.000	952	1.000
767	1.000	798	1.000	829	1.000	860	1.000	891	1.000	922	1.000	953	1.000
768	1.000	799	1.000	830	1.000	861	1.000	892	1.000	923	1.000	954	1.000
769	1.000	800	1.000	831	1.000	862	1.000	893	1.000	924	1.000	955	1.000
770	1.000	801	1.000	832	1.000	863	1.000	894	1.000	925	1.000	956	1.000
771	1.000	802	1.000	833	1.000	864	1.000	895	1.000	926	1.000	957	1.000
772	1.000	803	1.000	834	1.000	865	1.000	896	1.000	927	1.000	958	1.000
773	1.000	804	1.000	835	1.000	866	1.000	897	1.000	928	1.000	959	1.000
774	1.000	805	1.000	836	1.000	867	1.000	898	1.000	929	1.000	960	1.000
775	1.000	806	1.000	837	1.000	868	1.000	899	1.000	930	1.000		
776	1.000	807	1.000	838	1.000	869	1.000	900	1.000	931	1.000		
777	1.000	808	1.000	839	1.000	870	1.000	901	1.000	932	1.000		
778	1.000	809	1.000	840	1.000	871	1.000	902	1.000	933	1.000		
779	1.000	810	1.000	841	1.000	872	1.000	903	1.000	934	1.000		
780	1.000	811	1.000	842	1.000	873	1.000	904	1.000	935	1.000		

Simulation Criteria for NETWORK1-05.06.18.SWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
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 Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Simulation Criteria for NETWORK1-05.06.18.SWS

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.500	Storm Duration (mins)	30
Ratio R	0.334		

Online Controls for NETWORK1-05.06.18.SWS

Complex Manhole: 69, DS/PN: 1.020, Volume (m³): 11.6

Hydro-Brake® Optimum

Unit Reference	MD-SHE-0349-7300-0750-7300
Design Head (m)	0.750
Design Flow (l/s)	73.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	349
Invert Level (m)	77.520
Minimum Outlet Pipe Diameter (mm)	375
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.750	73.0	Kick-Flo®	0.666	68.9
Flush-Flo™	0.466	72.9	Mean Flow over Head Range	-	53.0

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	10.1	1.200	91.7	3.000	143.2	7.000	216.9
0.200	35.3	1.400	98.8	3.500	154.4	7.500	224.4
0.300	64.9	1.600	105.4	4.000	164.9	8.000	229.2
0.400	72.4	1.800	111.6	4.500	174.7	8.500	236.5
0.500	72.8	2.000	117.5	5.000	183.9	9.000	243.5
0.600	71.1	2.200	123.1	5.500	192.7	9.500	250.3
0.800	75.3	2.400	128.4	6.000	201.1		
1.000	83.9	2.600	133.6	6.500	209.2		

Orifice

Diameter (m) 0.250 Discharge Coefficient 0.600 Invert Level (m) 78.420

Storage Structures for NETWORK1-05.06.18.SWS

Tank or Pond Manhole: 67, DS/PN: 1.018

Invert Level (m) 77.557

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	960.0	1.200	1396.1

Summary Wizard of 15 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	2		83.424	-0.126	0.000	0.40		18.9	OK
1.001	2	2		83.233	-0.065	0.000	0.82		38.9	OK
1.002	3	2		83.027	-0.063	0.000	0.84		47.4	OK
1.003	4	2		82.610	-0.078	0.000	0.75		47.6	OK
1.004	5	2		82.468	0.024	0.000	1.06		65.5	SURCHARGED
2.000	6	2		81.447	-0.051	0.000	0.56		23.6	OK
2.001	7	2		81.413	0.055	0.000	0.38		33.1	SURCHARGED
3.000	8	2		81.405	0.070	0.000	0.52		19.2	SURCHARGED
2.002	9	2		81.345	0.141	0.000	0.83		45.6	SURCHARGED
2.003	10	2		81.263	0.098	0.000	0.83		45.9	SURCHARGED
1.005	11	2		81.192	0.066	0.000	1.12		102.5	SURCHARGED
1.006	12	2		81.113	0.028	0.000	1.11		104.6	SURCHARGED
1.007	13	2		81.003	-0.036	0.000	0.98		137.2	OK
4.000	14	2		81.373	-0.156	0.000	0.20		10.9	OK
4.001	15	2		81.073	-0.155	0.000	0.21		10.9	OK

Summary Wizard of 15 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	2	80.980	-0.088	0.000	0.67		35.5	OK
4.003	17	2	80.742	-0.101	0.000	0.75		54.4	OK
5.000	18	2	81.317	-0.163	0.000	0.17		10.1	OK
5.001	19	2	81.072	-0.094	0.000	0.62		32.5	OK
1.008	20	2	80.657	-0.079	0.000	0.98		247.2	OK
1.009	21	2	79.936	-0.134	0.000	0.82		290.8	OK
6.000	22	2	79.982	-0.121	0.000	0.19		7.1	OK
6.001	23	2	79.971	-0.032	0.000	0.31		11.5	OK
6.002	24	2	79.963	0.050	0.000	1.18		45.1	SURCHARGED
6.003	25	3	79.686	-0.095	0.000	0.73		49.3	OK
6.004	26	4	79.638	-0.055	0.000	1.00		65.1	OK
7.000	27	2	79.989	-0.160	0.000	0.18		8.3	OK
7.001	28	2	79.789	-0.103	0.000	0.56		26.0	OK
1.010	29	4	79.580	-0.042	0.000	0.81		366.8	OK
1.011	30	4	79.353	0.252	0.000	1.08		351.8	SURCHARGED
8.000	31	4	79.384	0.137	0.000	0.70		49.7	SURCHARGED
8.001	32	4	79.343	0.247	0.000	0.89		58.2	SURCHARGED
1.012	33	4	79.293	0.271	0.000	0.74		387.1	SURCHARGED
9.000	34	2	82.625	-0.133	0.000	0.34		26.4	OK
10.000	35	2	81.861	-0.122	0.000	0.25		9.2	OK
10.001	36	2	81.840	0.021	0.000	0.69		25.1	SURCHARGED
9.001	37	2	81.757	0.068	0.000	1.18		55.2	SURCHARGED
9.002	38	2	81.473	-0.034	0.000	0.80		80.6	OK
9.003	39	2	81.283	0.071	0.000	0.96		108.9	SURCHARGED
9.004	40	2	80.913	0.098	0.000	1.16		127.8	SURCHARGED
9.005	41	2	80.443	-0.075	0.000	0.90		153.0	OK
11.000	42a	2	82.588	-0.145	0.000	0.27		17.5	OK
11.001	42	2	82.354	-0.096	0.000	0.60		34.3	OK
11.002	43	2	81.824	0.025	0.000	1.05		60.3	SURCHARGED
11.003	44	2	81.529	-0.025	0.000	0.90		73.3	OK
12.000	45	2	81.130	0.043	0.000	0.18		6.1	SURCHARGED
11.004	46	2	81.125	0.103	0.000	0.79		78.4	SURCHARGED
11.005	47	2	80.974	0.191	0.000	1.33		91.7	SURCHARGED
13.000	48	2	81.897	-0.118	0.000	0.46		23.6	OK
13.001	49	2	81.733	-0.110	0.000	0.51		26.6	OK
13.002	50	2	81.517	-0.097	0.000	0.60		30.4	OK
13.003	51	2	81.351	-0.097	0.000	0.61		30.7	OK
13.004	52	2	81.207	-0.081	0.000	0.70		49.4	OK
11.006	53	2	80.770	0.099	0.000	1.27		136.2	SURCHARGED
11.007	54	2	80.670	0.070	0.000	1.17		138.6	SURCHARGED
11.008	55	2	80.548	0.049	0.000	1.11		132.3	SURCHARGED
11.009	56	2	80.431	0.037	0.000	1.10		129.6	SURCHARGED
11.010	57	3	80.319	0.021	0.000	1.07		132.1	SURCHARGED
11.011	58	4	80.164	0.006	0.000	1.09		128.8	SURCHARGED

Summary Wizard of 15 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	4	80.000	-0.060	0.000	0.89		258.8	OK
9.007	60	4	79.684	0.082	0.000	0.89		244.7	SURCHARGED
9.008	61	4	79.463	0.144	0.000	0.79		267.1	SURCHARGED
1.013	62	4	79.240	0.343	0.000	1.30		615.9	SURCHARGED
1.014	63	4	79.109	0.285	0.000	1.36		611.8	SURCHARGED
1.015	64	4	78.961	0.193	0.000	2.10		610.4	SURCHARGED
1.016	65	9	78.810	0.062	0.000	1.37		622.2	SURCHARGED
1.017	66	20	78.429	0.091	0.000	2.60		619.2	SURCHARGED
1.018	67	22	78.022	-0.285	0.000	0.10		19.4	OK
1.019	68	22	78.024	-0.261	0.000	0.02		6.3	OK
1.020	69	22	78.024	0.054	0.000	0.00		0.0	SURCHARGED

Summary Wizard of 30 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	3		83.420	-0.130	0.000	0.37		17.8	OK
1.001	2	3		83.222	-0.077	0.000	0.76		35.7	OK
1.002	3	3		83.014	-0.076	0.000	0.77		43.0	OK
1.003	4	3		82.601	-0.088	0.000	0.68		42.9	OK
1.004	5	3		82.404	-0.040	0.000	0.99		60.9	OK
2.000	6	3		81.401	-0.097	0.000	0.52		22.1	OK
2.001	7	3		81.372	0.014	0.000	0.36		31.7	SURCHARGED
3.000	8	3		81.359	0.024	0.000	0.53		19.3	SURCHARGED
2.002	9	3		81.308	0.103	0.000	0.78		42.9	SURCHARGED
2.003	10	3		81.231	0.065	0.000	0.77		42.5	SURCHARGED
1.005	11	3		81.154	0.028	0.000	1.03		93.8	SURCHARGED
1.006	12	3		81.065	-0.021	0.000	1.00		94.6	OK
1.007	13	3		80.967	-0.071	0.000	0.97		135.6	OK
4.000	14	3		81.370	-0.159	0.000	0.19		10.2	OK
4.001	15	3		81.070	-0.158	0.000	0.19		10.2	OK

Summary Wizard of 30 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	3	80.971	-0.097	0.000	0.60		31.7	OK
4.003	17	3	80.727	-0.116	0.000	0.68		49.0	OK
5.000	18	3	81.314	-0.166	0.000	0.16		9.5	OK
5.001	19	3	81.064	-0.102	0.000	0.57		29.4	OK
1.008	20	3	80.648	-0.088	0.000	0.93		234.8	OK
1.009	21	3	79.924	-0.145	0.000	0.77		273.8	OK
6.000	22	3	79.957	-0.146	0.000	0.17		6.3	OK
6.001	23	3	79.939	-0.064	0.000	0.25		9.3	OK
6.002	24	3	79.929	0.016	0.000	1.06		40.6	SURCHARGED
6.003	25	4	79.675	-0.107	0.000	0.67		45.0	OK
6.004	26	3	79.638	-0.054	0.000	0.92		59.8	OK
7.000	27	3	79.986	-0.163	0.000	0.17		7.8	OK
7.001	28	3	79.781	-0.111	0.000	0.50		23.6	OK
1.010	29	3	79.598	-0.024	0.000	0.77		345.5	OK
1.011	30	3	79.390	0.289	0.000	1.07		346.5	SURCHARGED
8.000	31	3	79.488	0.241	0.000	0.64		45.8	SURCHARGED
8.001	32	3	79.414	0.318	0.000	0.78		51.1	SURCHARGED
1.012	33	3	79.325	0.303	0.000	0.72		376.5	SURCHARGED
9.000	34	3	82.621	-0.137	0.000	0.32		24.9	OK
10.000	35	3	81.835	-0.148	0.000	0.24		8.8	OK
10.001	36	3	81.794	-0.025	0.000	0.68		25.1	OK
9.001	37	3	81.731	0.042	0.000	1.14		53.0	SURCHARGED
9.002	38	3	81.410	-0.097	0.000	0.78		78.2	OK
9.003	39	3	81.223	0.011	0.000	0.93		105.3	SURCHARGED
9.004	40	3	80.880	0.064	0.000	1.12		123.5	SURCHARGED
9.005	41	3	80.436	-0.082	0.000	0.86		146.1	OK
11.000	42a	3	82.584	-0.149	0.000	0.25		16.3	OK
11.001	42	3	82.347	-0.103	0.000	0.56		31.7	OK
11.002	43	3	81.754	-0.045	0.000	0.99		56.4	OK
11.003	44	3	81.492	-0.062	0.000	0.87		70.3	OK
12.000	45	3	81.058	-0.029	0.000	0.15		5.1	OK
11.004	46	3	81.051	0.029	0.000	0.76		74.6	SURCHARGED
11.005	47	3	80.923	0.140	0.000	1.29		88.9	SURCHARGED
13.000	48	3	81.892	-0.123	0.000	0.43		22.1	OK
13.001	49	3	81.728	-0.115	0.000	0.48		24.8	OK
13.002	50	3	81.510	-0.104	0.000	0.56		28.3	OK
13.003	51	3	81.344	-0.104	0.000	0.56		28.0	OK
13.004	52	3	81.196	-0.092	0.000	0.65		45.8	OK
11.006	53	3	80.739	0.069	0.000	1.22		130.9	SURCHARGED
11.007	54	3	80.640	0.040	0.000	1.12		132.6	SURCHARGED
11.008	55	3	80.530	0.030	0.000	1.08		128.6	SURCHARGED
11.009	56	4	80.420	0.026	0.000	1.05		124.1	SURCHARGED
11.010	57	2	80.320	0.023	0.000	1.04		128.4	SURCHARGED
11.011	58	3	80.165	0.007	0.000	1.08		127.6	SURCHARGED

Summary Wizard of 30 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	3	80.045	-0.015	0.000	0.88		256.8	OK
9.007	60	3	79.731	0.129	0.000	0.90		247.4	SURCHARGED
9.008	61	3	79.513	0.194	0.000	0.78		264.7	SURCHARGED
1.013	62	3	79.272	0.374	0.000	1.29		613.7	SURCHARGED
1.014	63	3	79.126	0.302	0.000	1.37		615.2	SURCHARGED
1.015	64	3	78.972	0.205	0.000	2.11		615.3	SURCHARGED
1.016	65	7	78.817	0.069	0.000	1.40		634.9	SURCHARGED
1.017	66	19	78.435	0.097	0.000	2.66		631.7	SURCHARGED
1.018	67	20	78.151	-0.156	0.000	0.09		17.3	OK
1.019	68	20	78.153	-0.132	0.000	0.01		5.1	OK
1.020	69	20	78.153	0.183	0.000	0.00		0.0	SURCHARGED

Summary Wizard of 60 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	5	83.407	-0.143	0.000	0.29		13.7	OK
1.001	2	5	83.197	-0.102	0.000	0.57		27.2	OK
1.002	3	5	82.989	-0.101	0.000	0.59		32.8	OK
1.003	4	5	82.579	-0.109	0.000	0.52		32.8	OK
1.004	5	5	82.368	-0.076	0.000	0.76		47.0	OK
2.000	6	5	81.372	-0.126	0.000	0.40		16.9	OK
2.001	7	5	81.168	-0.190	0.000	0.29		25.5	OK
3.000	8	5	81.223	-0.112	0.000	0.50		18.4	OK
2.002	9	5	81.109	-0.095	0.000	0.80		43.7	OK
2.003	10	5	81.079	-0.087	0.000	0.79		43.7	OK
1.005	11	5	81.050	-0.076	0.000	0.99		90.6	OK
1.006	12	5	81.008	-0.078	0.000	0.99		93.3	OK
1.007	13	5	80.941	-0.098	0.000	0.88		122.7	OK
4.000	14	5	81.361	-0.168	0.000	0.15		7.8	OK
4.001	15	5	81.061	-0.167	0.000	0.15		7.8	OK

Summary Wizard of 60 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	5	80.950	-0.118	0.000	0.46		24.0	OK
4.003	17	5	80.696	-0.147	0.000	0.51		37.0	OK
5.000	18	5	81.307	-0.173	0.000	0.12		7.2	OK
5.001	19	5	81.044	-0.122	0.000	0.43		22.2	OK
1.008	20	5	80.611	-0.125	0.000	0.78		196.7	OK
1.009	21	5	79.884	-0.186	0.000	0.64		226.7	OK
6.000	22	5	79.933	-0.170	0.000	0.14		5.0	OK
6.001	23	5	79.861	-0.142	0.000	0.14		5.2	OK
6.002	24	5	79.851	-0.062	0.000	0.87		33.3	OK
6.003	25	5	79.643	-0.139	0.000	0.54		36.4	OK
6.004	26	5	79.587	-0.105	0.000	0.74		48.4	OK
7.000	27	5	79.978	-0.171	0.000	0.13		6.0	OK
7.001	28	5	79.764	-0.128	0.000	0.38		17.9	OK
1.010	29	5	79.409	-0.212	0.000	0.66		297.0	OK
1.011	30	5	79.203	0.102	0.000	0.99		322.9	SURCHARGED
8.000	31	5	79.316	0.069	0.000	0.49		35.0	SURCHARGED
8.001	32	5	79.236	0.140	0.000	0.57		37.4	SURCHARGED
1.012	33	5	79.144	0.121	0.000	0.68		354.1	SURCHARGED
9.000	34	5	82.609	-0.149	0.000	0.25		19.1	OK
10.000	35	5	81.823	-0.160	0.000	0.18		6.8	OK
10.001	36	5	81.718	-0.101	0.000	0.58		21.3	OK
9.001	37	5	81.637	-0.052	0.000	0.94		43.8	OK
9.002	38	5	81.383	-0.124	0.000	0.64		64.5	OK
9.003	39	5	81.115	-0.097	0.000	0.78		88.6	OK
9.004	40	5	80.748	-0.067	0.000	0.95		104.8	OK
9.005	41	5	80.411	-0.107	0.000	0.73		123.9	OK
11.000	42a	5	82.575	-0.158	0.000	0.19		12.5	OK
11.001	42	5	82.328	-0.122	0.000	0.42		24.1	OK
11.002	43	5	81.720	-0.079	0.000	0.75		42.7	OK
11.003	44	5	81.463	-0.091	0.000	0.66		53.1	OK
12.000	45	5	80.914	-0.173	0.000	0.09		3.2	OK
11.004	46	5	80.893	-0.129	0.000	0.62		61.1	OK
11.005	47	5	80.790	0.007	0.000	1.07		74.0	SURCHARGED
13.000	48	5	81.878	-0.137	0.000	0.33		16.9	OK
13.001	49	5	81.712	-0.131	0.000	0.36		19.0	OK
13.002	50	5	81.492	-0.122	0.000	0.43		21.6	OK
13.003	51	5	81.326	-0.122	0.000	0.43		21.5	OK
13.004	52	5	81.176	-0.112	0.000	0.50		35.1	OK
11.006	53	5	80.602	-0.069	0.000	0.99		106.5	OK
11.007	54	5	80.511	-0.089	0.000	0.93		110.6	OK
11.008	55	5	80.408	-0.092	0.000	0.92		110.1	OK
11.009	56	5	80.305	-0.089	0.000	0.93		109.9	OK
11.010	57	5	80.223	-0.074	0.000	0.97		119.8	OK
11.011	58	5	80.096	-0.063	0.000	1.00		118.1	OK

Summary Wizard of 60 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	5	79.916	-0.144	0.000	0.80		232.4	OK
9.007	60	5	79.520	-0.082	0.000	0.85		233.3	OK
9.008	61	5	79.325	0.006	0.000	0.74		249.2	SURCHARGED
1.013	62	5	79.093	0.196	0.000	1.25		592.7	SURCHARGED
1.014	63	5	78.981	0.156	0.000	1.33		599.9	SURCHARGED
1.015	64	6	78.879	0.112	0.000	2.06		600.7	SURCHARGED
1.016	65	8	78.812	0.064	0.000	1.38		625.3	SURCHARGED
1.017	66	21	78.428	0.090	0.000	2.61		620.5	SURCHARGED
1.018	67	18	78.329	0.022	0.000	0.11		21.3	SURCHARGED
1.019	68	18	78.355	0.070	0.000	0.02		7.1	SURCHARGED
1.020	69	18	78.357	0.387	0.000	0.00		0.0	SURCHARGED

Summary Wizard of 120 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	7	83.392	-0.158	0.000	0.19		9.3	OK
1.001	2	7	83.171	-0.127	0.000	0.39		18.5	OK
1.002	3	7	82.964	-0.126	0.000	0.40		22.4	OK
1.003	4	7	82.556	-0.133	0.000	0.35		22.4	OK
1.004	5	7	82.335	-0.109	0.000	0.52		32.3	OK
2.000	6	7	81.353	-0.145	0.000	0.27		11.5	OK
2.001	7	7	81.148	-0.210	0.000	0.20		17.4	OK
3.000	8	7	81.219	-0.116	0.000	0.47		17.3	OK
2.002	9	7	81.078	-0.126	0.000	0.63		34.7	OK
2.003	10	7	81.039	-0.127	0.000	0.63		34.7	OK
1.005	11	7	80.990	-0.136	0.000	0.73		66.9	OK
1.006	12	7	80.949	-0.137	0.000	0.73		68.8	OK
1.007	13	7	80.885	-0.154	0.000	0.65		90.2	OK
4.000	14	7	81.351	-0.178	0.000	0.10		5.4	OK
4.001	15	7	81.051	-0.177	0.000	0.10		5.4	OK

Summary Wizard of 120 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	7	80.929	-0.139	0.000	0.31		16.3	OK
4.003	17	7	80.665	-0.178	0.000	0.35		25.1	OK
5.000	18	7	81.298	-0.182	0.000	0.08		4.9	OK
5.001	19	7	81.024	-0.142	0.000	0.29		15.1	OK
1.008	20	7	80.562	-0.174	0.000	0.56		141.6	OK
1.009	21	7	79.835	-0.235	0.000	0.46		163.1	OK
6.000	22	7	79.924	-0.179	0.000	0.09		3.4	OK
6.001	23	7	79.833	-0.170	0.000	0.09		3.5	OK
6.002	24	7	79.812	-0.100	0.000	0.59		22.6	OK
6.003	25	7	79.608	-0.174	0.000	0.37		24.8	OK
6.004	26	7	79.545	-0.148	0.000	0.51		33.1	OK
7.000	27	7	79.969	-0.180	0.000	0.09		4.1	OK
7.001	28	7	79.745	-0.147	0.000	0.26		12.2	OK
1.010	29	7	79.350	-0.272	0.000	0.47		211.8	OK
1.011	30	7	79.150	0.049	0.000	0.72		232.9	SURCHARGED
8.000	31	7	79.133	-0.114	0.000	0.35		24.7	OK
8.001	32	7	79.105	0.009	0.000	0.46		30.1	SURCHARGED
1.012	33	19	79.023	0.000	0.000	0.51		265.1	OK
9.000	34	7	82.595	-0.163	0.000	0.17		13.0	OK
10.000	35	7	81.811	-0.172	0.000	0.13		4.7	OK
10.001	36	7	81.693	-0.127	0.000	0.40		14.5	OK
9.001	37	7	81.596	-0.093	0.000	0.64		30.0	OK
9.002	38	7	81.346	-0.160	0.000	0.44		44.4	OK
9.003	39	7	81.070	-0.142	0.000	0.54		61.2	OK
9.004	40	7	80.693	-0.122	0.000	0.65		72.2	OK
9.005	41	7	80.370	-0.148	0.000	0.50		85.6	OK
11.000	42a	7	82.562	-0.171	0.000	0.13		8.5	OK
11.001	42	7	82.307	-0.143	0.000	0.29		16.4	OK
11.002	43	7	81.688	-0.111	0.000	0.51		29.0	OK
11.003	44	7	81.434	-0.120	0.000	0.45		36.1	OK
12.000	45	7	80.899	-0.188	0.000	0.06		2.2	OK
11.004	46	7	80.857	-0.165	0.000	0.42		41.6	OK
11.005	47	7	80.677	-0.106	0.000	0.74		51.3	OK
13.000	48	7	81.862	-0.153	0.000	0.22		11.5	OK
13.001	49	7	81.694	-0.149	0.000	0.25		12.9	OK
13.002	50	7	81.472	-0.142	0.000	0.29		14.7	OK
13.003	51	7	81.306	-0.142	0.000	0.29		14.7	OK
13.004	52	7	81.153	-0.135	0.000	0.34		23.9	OK
11.006	53	7	80.528	-0.142	0.000	0.70		75.2	OK
11.007	54	7	80.447	-0.153	0.000	0.66		78.0	OK
11.008	55	7	80.346	-0.154	0.000	0.65		77.9	OK
11.009	56	7	80.242	-0.152	0.000	0.66		77.5	OK
11.010	57	7	80.155	-0.142	0.000	0.70		86.6	OK
11.011	58	7	80.023	-0.136	0.000	0.73		86.2	OK

Summary Wizard of 120 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	7	79.855	-0.205	0.000	0.57		167.3	OK
9.007	60	7	79.411	-0.192	0.000	0.63		172.4	OK
9.008	61	7	79.112	-0.207	0.000	0.56		190.3	OK
1.013	62	7	78.909	0.011	0.000	0.97		458.6	SURCHARGED
1.014	63	9	78.847	0.022	0.000	1.02		459.3	SURCHARGED
1.015	64	13	78.786	0.018	0.000	1.57		456.9	SURCHARGED
1.016	65	18	78.748	0.000	0.000	1.05		477.1	OK
1.017	66	16	78.540	0.202	0.000	1.99		473.5	SURCHARGED
1.018	67	16	78.538	0.231	0.000	0.55		101.9	SURCHARGED
1.019	68	16	78.590	0.305	0.000	0.13		46.0	SURCHARGED
1.020	69	16	78.614	0.644	0.000	0.04		3.3	SURCHARGED

Summary Wizard of 180 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	8	83.383	-0.167	0.000	0.15		7.2	OK
1.001	2	8	83.158	-0.140	0.000	0.30		14.3	OK
1.002	3	8	82.950	-0.139	0.000	0.31		17.4	OK
1.003	4	8	82.543	-0.145	0.000	0.27		17.3	OK
1.004	5	8	82.318	-0.126	0.000	0.40		25.0	OK
2.000	6	8	81.343	-0.155	0.000	0.21		8.9	OK
2.001	7	8	81.136	-0.222	0.000	0.15		13.4	OK
3.000	8	8	81.217	-0.118	0.000	0.46		16.8	OK
2.002	9	8	81.064	-0.141	0.000	0.55		30.2	OK
2.003	10	8	81.025	-0.141	0.000	0.55		30.2	OK
1.005	11	8	80.961	-0.165	0.000	0.60		55.2	OK
1.006	12	8	80.920	-0.166	0.000	0.60		56.6	OK
1.007	13	8	80.858	-0.181	0.000	0.53		73.5	OK
4.000	14	8	81.345	-0.184	0.000	0.08		4.2	OK
4.001	15	8	81.045	-0.183	0.000	0.08		4.1	OK

Summary Wizard of 180 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	8	80.917	-0.151	0.000	0.24		12.6	OK
4.003	17	8	80.648	-0.195	0.000	0.27		19.3	OK
5.000	18	8	81.292	-0.188	0.000	0.06		3.8	OK
5.001	19	8	81.013	-0.153	0.000	0.22		11.6	OK
1.008	20	8	80.537	-0.199	0.000	0.45		113.5	OK
1.009	21	8	79.809	-0.261	0.000	0.37		130.3	OK
6.000	22	8	79.917	-0.186	0.000	0.07		2.7	OK
6.001	23	8	79.823	-0.180	0.000	0.07		2.7	OK
6.002	24	8	79.794	-0.118	0.000	0.45		17.4	OK
6.003	25	8	79.591	-0.191	0.000	0.29		19.2	OK
6.004	26	8	79.523	-0.170	0.000	0.39		25.6	OK
7.000	27	8	79.963	-0.186	0.000	0.07		3.2	OK
7.001	28	8	79.735	-0.157	0.000	0.20		9.4	OK
1.010	29	8	79.318	-0.303	0.000	0.37		168.1	OK
1.011	30	22	78.994	-0.107	0.000	0.54		174.6	OK
8.000	31	9	79.053	-0.194	0.000	0.27		19.3	OK
8.001	32	22	78.964	-0.132	0.000	0.36		23.4	OK
1.012	33	22	78.947	-0.075	0.000	0.39		203.3	OK
9.000	34	8	82.587	-0.171	0.000	0.13		10.1	OK
10.000	35	8	81.805	-0.178	0.000	0.10		3.6	OK
10.001	36	8	81.679	-0.140	0.000	0.31		11.2	OK
9.001	37	8	81.576	-0.113	0.000	0.50		23.2	OK
9.002	38	8	81.328	-0.179	0.000	0.34		34.4	OK
9.003	39	8	81.047	-0.165	0.000	0.42		47.4	OK
9.004	40	8	80.667	-0.148	0.000	0.51		56.0	OK
9.005	41	8	80.348	-0.170	0.000	0.39		66.4	OK
11.000	42a	8	82.556	-0.177	0.000	0.10		6.6	OK
11.001	42	8	82.297	-0.153	0.000	0.22		12.7	OK
11.002	43	8	81.672	-0.127	0.000	0.39		22.4	OK
11.003	44	8	81.420	-0.134	0.000	0.34		27.9	OK
12.000	45	8	80.894	-0.193	0.000	0.05		1.7	OK
11.004	46	8	80.839	-0.183	0.000	0.33		32.1	OK
11.005	47	8	80.646	-0.136	0.000	0.57		39.7	OK
13.000	48	8	81.852	-0.163	0.000	0.17		8.9	OK
13.001	49	8	81.684	-0.158	0.000	0.19		10.0	OK
13.002	50	8	81.461	-0.153	0.000	0.23		11.4	OK
13.003	51	8	81.296	-0.153	0.000	0.23		11.4	OK
13.004	52	8	81.141	-0.147	0.000	0.26		18.5	OK
11.006	53	8	80.493	-0.178	0.000	0.54		58.2	OK
11.007	54	8	80.415	-0.185	0.000	0.51		60.5	OK
11.008	55	8	80.314	-0.186	0.000	0.51		60.4	OK
11.009	56	8	80.209	-0.185	0.000	0.51		60.3	OK
11.010	57	8	80.121	-0.177	0.000	0.55		67.6	OK
11.011	58	8	79.987	-0.172	0.000	0.57		67.6	OK

Summary Wizard of 180 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	8	79.822	-0.238	0.000	0.45		131.9	OK
9.007	60	8	79.376	-0.227	0.000	0.49		136.1	OK
9.008	61	8	79.080	-0.239	0.000	0.45		150.8	OK
1.013	62	22	78.845	-0.053	0.000	0.72		341.5	OK
1.014	63	22	78.768	-0.057	0.000	0.75		338.3	OK
1.015	64	22	78.705	-0.062	0.000	1.13		329.6	OK
1.016	65	21	78.644	-0.104	0.000	0.77		350.0	OK
1.017	66	14	78.625	0.287	0.000	1.47		349.4	SURCHARGED
1.018	67	14	78.623	0.316	0.000	0.46		86.6	SURCHARGED
1.019	68	15	78.658	0.373	0.000	0.12		42.5	SURCHARGED
1.020	69	14	78.683	0.713	0.000	0.15		14.0	SURCHARGED

Summary Wizard of 240 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	10	83.377	-0.173	0.000	0.12		6.0	OK
1.001	2	10	83.150	-0.149	0.000	0.25		11.8	OK
1.002	3	10	82.942	-0.148	0.000	0.25		14.3	OK
1.003	4	10	82.536	-0.153	0.000	0.23		14.3	OK
1.004	5	10	82.308	-0.136	0.000	0.33		20.5	OK
2.000	6	10	81.336	-0.162	0.000	0.17		7.4	OK
2.001	7	10	81.128	-0.230	0.000	0.13		11.1	OK
3.000	8	10	81.216	-0.119	0.000	0.45		16.5	OK
2.002	9	10	81.055	-0.149	0.000	0.50		27.5	OK
2.003	10	10	81.016	-0.150	0.000	0.50		27.5	OK
1.005	11	10	80.944	-0.182	0.000	0.53		48.1	OK
1.006	12	10	80.903	-0.183	0.000	0.52		49.3	OK
1.007	13	10	80.841	-0.198	0.000	0.45		63.3	OK
4.000	14	10	81.341	-0.188	0.000	0.06		3.4	OK
4.001	15	10	81.040	-0.188	0.000	0.06		3.4	OK

Summary Wizard of 240 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	10	80.911	-0.157	0.000	0.20		10.3	OK
4.003	17	10	80.638	-0.205	0.000	0.22		15.9	OK
5.000	18	10	81.288	-0.192	0.000	0.05		3.2	OK
5.001	19	10	81.006	-0.160	0.000	0.18		9.6	OK
1.008	20	10	80.521	-0.215	0.000	0.38		96.3	OK
1.009	21	10	79.792	-0.278	0.000	0.31		110.2	OK
6.000	22	10	79.913	-0.190	0.000	0.06		2.2	OK
6.001	23	10	79.816	-0.187	0.000	0.06		2.2	OK
6.002	24	10	79.783	-0.130	0.000	0.37		14.3	OK
6.003	25	10	79.580	-0.202	0.000	0.23		15.8	OK
6.004	26	10	79.510	-0.183	0.000	0.32		21.1	OK
7.000	27	10	79.958	-0.191	0.000	0.06		2.6	OK
7.001	28	10	79.728	-0.164	0.000	0.16		7.7	OK
1.010	29	10	79.298	-0.324	0.000	0.31		141.4	OK
1.011	30	21	79.043	-0.058	0.000	0.46		150.0	OK
8.000	31	10	79.043	-0.204	0.000	0.22		15.9	OK
8.001	32	21	78.998	-0.098	0.000	0.30		19.3	OK
1.012	33	21	78.997	-0.026	0.000	0.34		176.7	OK
9.000	34	10	82.582	-0.176	0.000	0.11		8.3	OK
10.000	35	10	81.800	-0.183	0.000	0.08		3.0	OK
10.001	36	10	81.671	-0.149	0.000	0.25		9.2	OK
9.001	37	10	81.564	-0.125	0.000	0.41		19.2	OK
9.002	38	10	81.315	-0.192	0.000	0.28		28.4	OK
9.003	39	10	81.033	-0.179	0.000	0.35		39.2	OK
9.004	40	10	80.650	-0.165	0.000	0.42		46.3	OK
9.005	41	10	80.335	-0.183	0.000	0.32		54.9	OK
11.000	42a	10	82.552	-0.181	0.000	0.08		5.4	OK
11.001	42	10	82.290	-0.160	0.000	0.18		10.4	OK
11.002	43	10	81.662	-0.137	0.000	0.32		18.4	OK
11.003	44	10	81.410	-0.144	0.000	0.28		22.9	OK
12.000	45	10	80.891	-0.196	0.000	0.04		1.4	OK
11.004	46	10	80.827	-0.195	0.000	0.27		26.4	OK
11.005	47	10	80.628	-0.155	0.000	0.47		32.7	OK
13.000	48	10	81.846	-0.169	0.000	0.14		7.4	OK
13.001	49	10	81.677	-0.166	0.000	0.16		8.2	OK
13.002	50	10	81.454	-0.160	0.000	0.19		9.4	OK
13.003	51	10	81.289	-0.160	0.000	0.19		9.4	OK
13.004	52	10	81.134	-0.154	0.000	0.22		15.2	OK
11.006	53	10	80.471	-0.200	0.000	0.45		47.9	OK
11.007	54	10	80.394	-0.206	0.000	0.42		49.8	OK
11.008	55	10	80.293	-0.207	0.000	0.42		49.7	OK
11.009	56	10	80.188	-0.206	0.000	0.42		49.7	OK
11.010	57	10	80.099	-0.198	0.000	0.45		55.9	OK
11.011	58	10	79.965	-0.194	0.000	0.47		55.9	OK

Summary Wizard of 240 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	10	79.801	-0.259	0.000	0.38		109.5	OK
9.007	60	10	79.352	-0.250	0.000	0.41		113.0	OK
9.008	61	10	79.059	-0.260	0.000	0.37		125.5	OK
1.013	62	20	78.898	0.000	0.000	0.64		304.5	OK
1.014	63	20	78.825	0.000	0.000	0.69		309.5	OK
1.015	64	20	78.762	-0.006	0.000	1.06		309.4	OK
1.016	65	19	78.722	-0.026	0.000	0.71		324.6	OK
1.017	66	12	78.654	0.316	0.000	1.36		324.1	SURCHARGED
1.018	67	12	78.652	0.345	0.000	0.44		82.0	SURCHARGED
1.019	68	13	78.692	0.407	0.000	0.14		47.0	SURCHARGED
1.020	69	13	78.698	0.728	0.000	0.22		20.2	SURCHARGED

Summary Wizard of 360 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	12		83.371	-0.179	0.000	0.09		4.5	OK
1.001	2	12		83.139	-0.160	0.000	0.19		8.8	OK
1.002	3	12		82.931	-0.159	0.000	0.19		10.7	OK
1.003	4	12		82.525	-0.163	0.000	0.17		10.7	OK
1.004	5	12		82.295	-0.149	0.000	0.25		15.4	OK
2.000	6	12		81.327	-0.171	0.000	0.13		5.5	OK
2.001	7	12		81.120	-0.238	0.000	0.09		8.3	OK
3.000	8	12		81.214	-0.121	0.000	0.44		16.1	OK
2.002	9	12		81.045	-0.160	0.000	0.45		24.4	OK
2.003	10	12		81.005	-0.160	0.000	0.44		24.4	OK
1.005	11	12		80.924	-0.202	0.000	0.44		39.9	OK
1.006	12	12		80.882	-0.203	0.000	0.43		40.8	OK
1.007	13	12		80.821	-0.218	0.000	0.37		51.5	OK
4.000	14	12		81.335	-0.194	0.000	0.05		2.6	OK
4.001	15	12		81.035	-0.193	0.000	0.05		2.6	OK

Summary Wizard of 360 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	12	80.900	-0.168	0.000	0.15		7.8	OK
4.003	17	12	80.624	-0.219	0.000	0.17		11.9	OK
5.000	18	12	81.284	-0.196	0.000	0.04		2.4	OK
5.001	19	12	80.996	-0.170	0.000	0.14		7.2	OK
1.008	20	12	80.501	-0.235	0.000	0.30		76.4	OK
1.009	21	12	79.770	-0.299	0.000	0.25		86.9	OK
6.000	22	12	79.908	-0.195	0.000	0.04		1.6	OK
6.001	23	12	79.809	-0.194	0.000	0.04		1.6	OK
6.002	24	12	79.768	-0.144	0.000	0.28		10.7	OK
6.003	25	12	79.566	-0.216	0.000	0.18		11.8	OK
6.004	26	12	79.493	-0.200	0.000	0.24		15.8	OK
7.000	27	12	79.954	-0.195	0.000	0.04		2.0	OK
7.001	28	12	79.719	-0.173	0.000	0.12		5.8	OK
1.010	29	12	79.272	-0.350	0.000	0.24		110.3	OK
1.011	30	19	79.102	0.001	0.000	0.36		117.2	SURCHARGED
8.000	31	22	79.029	-0.218	0.000	0.17		12.0	OK
8.001	32	19	79.025	-0.071	0.000	0.22		14.5	OK
1.012	33	12	79.023	0.000	0.000	0.27		139.0	OK
9.000	34	12	82.576	-0.182	0.000	0.08		6.3	OK
10.000	35	12	81.794	-0.189	0.000	0.06		2.2	OK
10.001	36	12	81.660	-0.159	0.000	0.19		6.9	OK
9.001	37	12	81.549	-0.140	0.000	0.31		14.4	OK
9.002	38	12	81.300	-0.207	0.000	0.21		21.4	OK
9.003	39	12	81.015	-0.197	0.000	0.26		29.5	OK
9.004	40	12	80.631	-0.185	0.000	0.32		34.9	OK
9.005	41	12	80.318	-0.200	0.000	0.24		41.4	OK
11.000	42a	12	82.545	-0.188	0.000	0.06		4.1	OK
11.001	42	12	82.280	-0.170	0.000	0.14		7.8	OK
11.002	43	12	81.649	-0.150	0.000	0.24		13.8	OK
11.003	44	12	81.399	-0.155	0.000	0.21		17.2	OK
12.000	45	12	80.888	-0.199	0.000	0.03		1.1	OK
11.004	46	12	80.813	-0.209	0.000	0.20		19.8	OK
11.005	47	12	80.606	-0.177	0.000	0.36		24.6	OK
13.000	48	12	81.839	-0.176	0.000	0.11		5.5	OK
13.001	49	12	81.669	-0.174	0.000	0.12		6.2	OK
13.002	50	12	81.444	-0.169	0.000	0.14		7.0	OK
13.003	51	12	81.279	-0.169	0.000	0.14		7.0	OK
13.004	52	12	81.123	-0.165	0.000	0.16		11.4	OK
11.006	53	12	80.445	-0.225	0.000	0.34		36.0	OK
11.007	54	12	80.369	-0.231	0.000	0.32		37.4	OK
11.008	55	12	80.268	-0.231	0.000	0.31		37.4	OK
11.009	56	12	80.164	-0.230	0.000	0.32		37.4	OK
11.010	57	12	80.073	-0.224	0.000	0.34		42.2	OK
11.011	58	12	79.938	-0.220	0.000	0.36		42.2	OK

Summary Wizard of 360 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	12	79.773	-0.287	0.000	0.28		83.0	OK
9.007	60	12	79.324	-0.279	0.000	0.31		85.8	OK
9.008	61	12	79.031	-0.288	0.000	0.28		95.4	OK
1.013	62	11	78.898	0.000	0.000	0.50		237.6	OK
1.014	63	14	78.825	0.000	0.000	0.54		242.0	OK
1.015	64	18	78.767	0.000	0.000	0.83		241.9	OK
1.016	65	16	78.748	0.000	0.000	0.56		254.0	OK
1.017	66	10	78.715	0.377	0.000	1.07		253.7	SURCHARGED
1.018	67	10	78.710	0.403	0.000	0.42		77.3	SURCHARGED
1.019	68	12	78.734	0.449	0.000	0.15		50.5	SURCHARGED
1.020	69	12	78.734	0.764	0.000	0.37		34.9	SURCHARGED

Summary Wizard of 480 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	14	83.366	-0.184	0.000	0.08		3.6	OK
1.001	2	14	83.132	-0.167	0.000	0.15		7.1	OK
1.002	3	14	82.924	-0.166	0.000	0.15		8.7	OK
1.003	4	14	82.519	-0.170	0.000	0.14		8.7	OK
1.004	5	14	82.287	-0.157	0.000	0.20		12.5	OK
2.000	6	14	81.322	-0.176	0.000	0.11		4.5	OK
2.001	7	14	81.113	-0.245	0.000	0.08		6.7	OK
3.000	8	14	81.213	-0.122	0.000	0.43		15.9	OK
2.002	9	14	81.038	-0.166	0.000	0.41		22.6	OK
2.003	10	14	80.999	-0.166	0.000	0.41		22.6	OK
1.005	11	14	80.912	-0.214	0.000	0.38		35.2	OK
1.006	12	14	80.870	-0.215	0.000	0.38		35.9	OK
1.007	13	14	80.809	-0.230	0.000	0.32		44.7	OK
4.000	14	14	81.332	-0.197	0.000	0.04		2.1	OK
4.001	15	14	81.032	-0.196	0.000	0.04		2.1	OK

Summary Wizard of 480 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	14	80.894	-0.174	0.000	0.12		6.3	OK
4.003	17	14	80.616	-0.227	0.000	0.13		9.7	OK
5.000	18	14	81.281	-0.199	0.000	0.03		1.9	OK
5.001	19	14	80.991	-0.175	0.000	0.11		5.8	OK
1.008	20	14	80.489	-0.247	0.000	0.26		64.9	OK
1.009	21	14	79.758	-0.311	0.000	0.21		73.6	OK
6.000	22	14	79.905	-0.198	0.000	0.04		1.3	OK
6.001	23	14	79.806	-0.197	0.000	0.04		1.3	OK
6.002	24	14	79.760	-0.153	0.000	0.23		8.7	OK
6.003	25	14	79.557	-0.225	0.000	0.14		9.6	OK
6.004	26	14	79.483	-0.210	0.000	0.20		12.9	OK
7.000	27	14	79.951	-0.198	0.000	0.03		1.6	OK
7.001	28	14	79.714	-0.178	0.000	0.10		4.7	OK
1.010	29	14	79.257	-0.364	0.000	0.21		92.6	OK
1.011	30	17	79.104	0.004	0.000	0.30		98.3	SURCHARGED
8.000	31	20	79.032	-0.215	0.000	0.14		9.7	OK
8.001	32	17	79.027	-0.069	0.000	0.18		11.8	OK
1.012	33	7	79.023	0.000	0.000	0.22		116.3	SURCHARGED
9.000	34	14	82.570	-0.188	0.000	0.07		5.1	OK
10.000	35	14	81.790	-0.193	0.000	0.05		1.8	OK
10.001	36	14	81.653	-0.167	0.000	0.15		5.6	OK
9.001	37	14	81.540	-0.149	0.000	0.25		11.7	OK
9.002	38	14	81.290	-0.217	0.000	0.17		17.3	OK
9.003	39	14	81.005	-0.207	0.000	0.21		24.0	OK
9.004	40	14	80.618	-0.197	0.000	0.26		28.3	OK
9.005	41	14	80.308	-0.210	0.000	0.20		33.6	OK
11.000	42a	14	82.541	-0.192	0.000	0.05		3.3	OK
11.001	42	14	82.275	-0.175	0.000	0.11		6.3	OK
11.002	43	14	81.641	-0.158	0.000	0.20		11.2	OK
11.003	44	14	81.391	-0.163	0.000	0.17		13.9	OK
12.000	45	14	80.886	-0.201	0.000	0.03		0.9	OK
11.004	46	14	80.802	-0.220	0.000	0.16		16.1	OK
11.005	47	14	80.592	-0.191	0.000	0.29		20.0	OK
13.000	48	14	81.834	-0.181	0.000	0.09		4.5	OK
13.001	49	14	81.664	-0.178	0.000	0.10		5.0	OK
13.002	50	14	81.439	-0.175	0.000	0.11		5.7	OK
13.003	51	14	81.274	-0.175	0.000	0.11		5.7	OK
13.004	52	14	81.117	-0.171	0.000	0.13		9.3	OK
11.006	53	14	80.428	-0.242	0.000	0.27		29.2	OK
11.007	54	14	80.353	-0.247	0.000	0.26		30.4	OK
11.008	55	14	80.253	-0.247	0.000	0.25		30.4	OK
11.009	56	14	80.148	-0.246	0.000	0.26		30.4	OK
11.010	57	14	80.057	-0.241	0.000	0.28		34.4	OK
11.011	58	14	79.921	-0.237	0.000	0.29		34.4	OK

Summary Wizard of 480 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	14	79.756	-0.304	0.000	0.23		67.8	OK
9.007	60	14	79.306	-0.297	0.000	0.25		70.1	OK
9.008	61	14	79.015	-0.304	0.000	0.23		78.1	OK
1.013	62	16	78.898	0.000	0.000	0.42		197.6	OK
1.014	63	17	78.825	0.000	0.000	0.45		201.2	OK
1.015	64	16	78.767	0.000	0.000	0.69		201.3	OK
1.016	65	15	78.748	0.000	0.000	0.46		210.4	SURCHARGED
1.017	66	9	78.735	0.397	0.000	0.87		206.8	SURCHARGED
1.018	67	9	78.730	0.423	0.000	0.46		85.2	SURCHARGED
1.019	68	9	78.786	0.501	0.000	0.14		46.5	SURCHARGED
1.020	69	9	78.786	0.816	0.000	0.43		40.1	SURCHARGED

Summary Wizard of 600 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	16	83.362	-0.188	0.000	0.06		3.1	OK
1.001	2	16	83.127	-0.172	0.000	0.13		6.1	OK
1.002	3	16	82.919	-0.171	0.000	0.13		7.4	OK
1.003	4	16	82.514	-0.174	0.000	0.12		7.4	OK
1.004	5	16	82.281	-0.163	0.000	0.17		10.6	OK
2.000	6	16	81.318	-0.180	0.000	0.09		3.8	OK
2.001	7	16	81.107	-0.251	0.000	0.06		5.7	OK
3.000	8	16	81.213	-0.122	0.000	0.43		15.8	OK
2.002	9	16	81.035	-0.170	0.000	0.39		21.5	OK
2.003	10	16	80.995	-0.170	0.000	0.39		21.5	OK
1.005	11	16	80.904	-0.222	0.000	0.35		32.1	OK
1.006	12	16	80.863	-0.223	0.000	0.35		32.7	OK
1.007	13	16	80.801	-0.238	0.000	0.29		40.2	OK
4.000	14	16	81.330	-0.199	0.000	0.03		1.8	OK
4.001	15	16	81.030	-0.198	0.000	0.03		1.8	OK

Summary Wizard of 600 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	16	80.891	-0.177	0.000	0.10		5.3	OK
4.003	17	16	80.610	-0.233	0.000	0.11		8.2	OK
5.000	18	16	81.279	-0.201	0.000	0.03		1.6	OK
5.001	19	16	80.987	-0.179	0.000	0.09		4.9	OK
1.008	20	16	80.481	-0.255	0.000	0.23		57.4	OK
1.009	21	16	79.749	-0.321	0.000	0.18		64.8	OK
6.000	22	16	79.904	-0.199	0.000	0.03		1.1	OK
6.001	23	16	79.804	-0.199	0.000	0.03		1.1	OK
6.002	24	16	79.754	-0.158	0.000	0.19		7.4	OK
6.003	25	16	79.551	-0.231	0.000	0.12		8.1	OK
6.004	26	16	79.474	-0.218	0.000	0.17		10.9	OK
7.000	27	16	79.949	-0.200	0.000	0.03		1.4	OK
7.001	28	16	79.711	-0.181	0.000	0.09		4.0	OK
1.010	29	16	79.246	-0.376	0.000	0.18		80.9	OK
1.011	30	16	79.104	0.004	0.000	0.26		85.8	SURCHARGED
8.000	31	18	79.036	-0.211	0.000	0.12		8.2	OK
8.001	32	12	79.030	-0.066	0.000	0.15		10.0	OK
1.012	33	15	79.023	0.000	0.000	0.19		100.8	OK
9.000	34	16	82.567	-0.191	0.000	0.06		4.3	OK
10.000	35	16	81.787	-0.196	0.000	0.04		1.5	OK
10.001	36	16	81.648	-0.171	0.000	0.13		4.8	OK
9.001	37	16	81.534	-0.155	0.000	0.21		9.9	OK
9.002	38	16	81.282	-0.224	0.000	0.15		14.7	OK
9.003	39	16	80.997	-0.215	0.000	0.18		20.3	OK
9.004	40	16	80.610	-0.206	0.000	0.22		24.0	OK
9.005	41	16	80.300	-0.218	0.000	0.17		28.5	OK
11.000	42a	16	82.538	-0.195	0.000	0.04		2.8	OK
11.001	42	16	82.271	-0.179	0.000	0.09		5.4	OK
11.002	43	16	81.635	-0.164	0.000	0.17		9.5	OK
11.003	44	16	81.386	-0.168	0.000	0.15		11.8	OK
12.000	45	16	80.885	-0.202	0.000	0.02		0.7	OK
11.004	46	16	80.796	-0.226	0.000	0.14		13.6	OK
11.005	47	16	80.583	-0.200	0.000	0.24		16.9	OK
13.000	48	16	81.830	-0.185	0.000	0.07		3.8	OK
13.001	49	16	81.661	-0.182	0.000	0.08		4.3	OK
13.002	50	16	81.435	-0.178	0.000	0.10		4.8	OK
13.003	51	16	81.270	-0.178	0.000	0.10		4.8	OK
13.004	52	16	81.113	-0.175	0.000	0.11		7.9	OK
11.006	53	16	80.417	-0.253	0.000	0.23		24.8	OK
11.007	54	16	80.343	-0.257	0.000	0.22		25.8	OK
11.008	55	16	80.242	-0.257	0.000	0.22		25.8	OK
11.009	56	16	80.137	-0.257	0.000	0.22		25.8	OK
11.010	57	16	80.045	-0.252	0.000	0.24		29.2	OK
11.011	58	16	79.909	-0.249	0.000	0.25		29.2	OK

Summary Wizard of 600 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	16	79.745	-0.315	0.000	0.20		57.7	OK
9.007	60	16	79.294	-0.309	0.000	0.22		59.7	OK
9.008	61	16	79.004	-0.315	0.000	0.20		66.6	OK
1.013	62	12	78.898	0.000	0.000	0.35		167.8	OK
1.014	63	13	78.825	0.000	0.000	0.38		168.8	SURCHARGED
1.015	64	15	78.767	0.000	0.000	0.57		166.9	SURCHARGED
1.016	65	13	78.764	0.016	0.000	0.38		174.4	SURCHARGED
1.017	66	8	78.759	0.421	0.000	0.72		171.4	SURCHARGED
1.018	67	8	78.753	0.446	0.000	0.52		96.5	SURCHARGED
1.019	68	8	78.797	0.512	0.000	0.23		77.7	SURCHARGED
1.020	69	8	78.797	0.827	0.000	0.78		72.9	SURCHARGED

Summary Wizard of 720 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	17	83.359	-0.191	0.000	0.06		2.7	OK
1.001	2	17	83.124	-0.175	0.000	0.11		5.3	OK
1.002	3	17	82.915	-0.175	0.000	0.11		6.5	OK
1.003	4	17	82.511	-0.177	0.000	0.10		6.5	OK
1.004	5	17	82.277	-0.167	0.000	0.15		9.3	OK
2.000	6	17	81.315	-0.183	0.000	0.08		3.3	OK
2.001	7	17	81.104	-0.254	0.000	0.06		5.0	OK
3.000	8	17	81.213	-0.122	0.000	0.43		15.7	OK
2.002	9	17	81.032	-0.173	0.000	0.38		20.7	OK
2.003	10	17	80.993	-0.173	0.000	0.38		20.7	OK
1.005	11	17	80.898	-0.228	0.000	0.33		30.0	OK
1.006	12	17	80.857	-0.229	0.000	0.32		30.5	OK
1.007	13	17	80.795	-0.244	0.000	0.27		37.0	OK
4.000	14	17	81.329	-0.200	0.000	0.03		1.5	OK
4.001	15	17	81.028	-0.200	0.000	0.03		1.5	OK

Summary Wizard of 720 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	17	80.888	-0.180	0.000	0.09		4.7	OK
4.003	17	17	80.606	-0.237	0.000	0.10		7.2	OK
5.000	18	17	81.278	-0.202	0.000	0.02		1.4	OK
5.001	19	17	80.984	-0.182	0.000	0.08		4.3	OK
1.008	20	17	80.476	-0.260	0.000	0.21		52.1	OK
1.009	21	17	79.742	-0.328	0.000	0.17		58.5	OK
6.000	22	17	79.902	-0.201	0.000	0.03		1.0	OK
6.001	23	17	79.802	-0.201	0.000	0.03		1.0	OK
6.002	24	17	79.749	-0.163	0.000	0.17		6.5	OK
6.003	25	17	79.547	-0.235	0.000	0.11		7.1	OK
6.004	26	17	79.469	-0.224	0.000	0.15		9.5	OK
7.000	27	17	79.948	-0.201	0.000	0.03		1.2	OK
7.001	28	17	79.707	-0.185	0.000	0.07		3.5	OK
1.010	29	17	79.237	-0.385	0.000	0.16		72.6	OK
1.011	30	14	79.106	0.005	0.000	0.24		76.8	SURCHARGED
8.000	31	13	79.038	-0.209	0.000	0.10		7.2	OK
8.001	32	9	79.031	-0.065	0.000	0.13		8.7	OK
1.012	33	16	79.023	0.000	0.000	0.17		88.8	OK
9.000	34	17	82.565	-0.193	0.000	0.05		3.8	OK
10.000	35	17	81.786	-0.197	0.000	0.04		1.3	OK
10.001	36	17	81.644	-0.175	0.000	0.11		4.2	OK
9.001	37	17	81.529	-0.160	0.000	0.19		8.7	OK
9.002	38	17	81.277	-0.229	0.000	0.13		12.9	OK
9.003	39	17	80.991	-0.221	0.000	0.16		17.8	OK
9.004	40	17	80.603	-0.212	0.000	0.19		21.0	OK
9.005	41	17	80.294	-0.224	0.000	0.15		24.9	OK
11.000	42a	17	82.536	-0.197	0.000	0.04		2.5	OK
11.001	42	17	82.268	-0.182	0.000	0.08		4.7	OK
11.002	43	17	81.631	-0.168	0.000	0.15		8.3	OK
11.003	44	17	81.382	-0.172	0.000	0.13		10.3	OK
12.000	45	17	80.882	-0.205	0.000	0.02		0.6	OK
11.004	46	17	80.791	-0.231	0.000	0.12		11.9	OK
11.005	47	17	80.577	-0.206	0.000	0.21		14.8	OK
13.000	48	17	81.827	-0.188	0.000	0.06		3.3	OK
13.001	49	17	81.657	-0.186	0.000	0.07		3.7	OK
13.002	50	17	81.432	-0.181	0.000	0.08		4.2	OK
13.003	51	17	81.267	-0.181	0.000	0.08		4.2	OK
13.004	52	17	81.110	-0.178	0.000	0.10		6.9	OK
11.006	53	17	80.410	-0.261	0.000	0.20		21.7	OK
11.007	54	17	80.335	-0.265	0.000	0.19		22.6	OK
11.008	55	17	80.234	-0.265	0.000	0.19		22.6	OK
11.009	56	17	80.130	-0.264	0.000	0.19		22.6	OK
11.010	57	17	80.038	-0.260	0.000	0.21		25.6	OK
11.011	58	17	79.901	-0.257	0.000	0.22		25.6	OK

Summary Wizard of 720 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	17	79.735	-0.325	0.000	0.17		50.5	OK
9.007	60	17	79.284	-0.318	0.000	0.19		52.2	OK
9.008	61	17	78.994	-0.325	0.000	0.17		58.3	OK
1.013	62	13	78.898	0.000	0.000	0.31		145.3	OK
1.014	63	12	78.825	0.000	0.000	0.32		144.7	SURCHARGED
1.015	64	12	78.794	0.027	0.000	0.49		142.1	SURCHARGED
1.016	65	11	78.790	0.043	0.000	0.33		148.7	SURCHARGED
1.017	66	6	78.784	0.446	0.000	0.61		146.1	SURCHARGED
1.018	67	6	78.778	0.471	0.000	0.59		110.1	SURCHARGED
1.019	68	5	78.864	0.579	0.000	0.23		77.8	SURCHARGED
1.020	69	6	78.866	0.896	0.000	0.78		72.9	SURCHARGED

Summary Wizard of 960 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	20	83.356	-0.194	0.000	0.05		2.2	OK
1.001	2	20	83.119	-0.180	0.000	0.09		4.3	OK
1.002	3	20	82.911	-0.179	0.000	0.09		5.2	OK
1.003	4	20	82.506	-0.182	0.000	0.08		5.2	OK
1.004	5	20	82.271	-0.173	0.000	0.12		7.5	OK
2.000	6	20	81.310	-0.188	0.000	0.06		2.7	OK
2.001	7	20	81.099	-0.259	0.000	0.05		4.0	OK
3.000	8	20	81.212	-0.123	0.000	0.42		15.5	OK
2.002	9	20	81.028	-0.176	0.000	0.36		19.6	OK
2.003	10	20	80.989	-0.177	0.000	0.36		19.6	OK
1.005	11	20	80.890	-0.236	0.000	0.30		27.1	OK
1.006	12	20	80.848	-0.237	0.000	0.29		27.5	OK
1.007	13	20	80.786	-0.252	0.000	0.24		32.8	OK
4.000	14	20	81.327	-0.202	0.000	0.02		1.2	OK
4.001	15	20	81.026	-0.202	0.000	0.02		1.2	OK

Summary Wizard of 960 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	20	80.882	-0.186	0.000	0.07		3.8	OK
4.003	17	20	80.599	-0.244	0.000	0.08		5.8	OK
5.000	18	20	81.275	-0.205	0.000	0.02		1.2	OK
5.001	19	20	80.979	-0.187	0.000	0.07		3.5	OK
1.008	20	20	80.467	-0.269	0.000	0.18		45.0	OK
1.009	21	20	79.732	-0.338	0.000	0.14		50.1	OK
6.000	22	20	79.901	-0.202	0.000	0.02		0.8	OK
6.001	23	20	79.801	-0.202	0.000	0.02		0.8	OK
6.002	24	20	79.742	-0.170	0.000	0.14		5.2	OK
6.003	25	20	79.540	-0.241	0.000	0.09		5.8	OK
6.004	26	20	79.461	-0.232	0.000	0.12		7.7	OK
7.000	27	20	79.946	-0.203	0.000	0.02		1.0	OK
7.001	28	20	79.703	-0.189	0.000	0.06		2.8	OK
1.010	29	20	79.225	-0.397	0.000	0.14		61.6	OK
1.011	30	9	79.107	0.006	0.000	0.20		63.6	SURCHARGED
8.000	31	12	79.038	-0.209	0.000	0.08		5.8	OK
8.001	32	15	79.029	-0.067	0.000	0.11		7.1	OK
1.012	33	8	79.023	0.000	0.000	0.14		72.0	OK
9.000	34	20	82.562	-0.196	0.000	0.04		3.0	OK
10.000	35	20	81.783	-0.200	0.000	0.03		1.1	OK
10.001	36	20	81.640	-0.179	0.000	0.09		3.4	OK
9.001	37	20	81.522	-0.167	0.000	0.15		7.0	OK
9.002	38	20	81.271	-0.236	0.000	0.10		10.4	OK
9.003	39	20	80.983	-0.229	0.000	0.13		14.4	OK
9.004	40	20	80.593	-0.222	0.000	0.15		17.0	OK
9.005	41	20	80.286	-0.232	0.000	0.12		20.1	OK
11.000	42a	20	82.534	-0.199	0.000	0.03		2.0	OK
11.001	42	20	82.263	-0.187	0.000	0.07		3.8	OK
11.002	43	20	81.625	-0.174	0.000	0.12		6.7	OK
11.003	44	20	81.377	-0.177	0.000	0.10		8.3	OK
12.000	45	20	80.878	-0.209	0.000	0.02		0.5	OK
11.004	46	20	80.784	-0.238	0.000	0.10		9.6	OK
11.005	47	20	80.566	-0.217	0.000	0.17		12.0	OK
13.000	48	20	81.823	-0.192	0.000	0.05		2.7	OK
13.001	49	20	81.653	-0.190	0.000	0.06		3.0	OK
13.002	50	20	81.427	-0.187	0.000	0.07		3.4	OK
13.003	51	20	81.262	-0.187	0.000	0.07		3.4	OK
13.004	52	20	81.105	-0.183	0.000	0.08		5.6	OK
11.006	53	20	80.397	-0.274	0.000	0.16		17.5	OK
11.007	54	20	80.322	-0.277	0.000	0.15		18.2	OK
11.008	55	20	80.222	-0.278	0.000	0.15		18.2	OK
11.009	56	20	80.117	-0.277	0.000	0.15		18.2	OK
11.010	57	20	80.025	-0.273	0.000	0.17		20.7	OK
11.011	58	20	79.888	-0.270	0.000	0.17		20.7	OK

Summary Wizard of 960 minute 30 year Summer I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	20	79.721	-0.339	0.000	0.14		40.8	OK
9.007	60	20	79.269	-0.333	0.000	0.15		42.2	OK
9.008	61	20	78.980	-0.339	0.000	0.14		47.1	OK
1.013	62	18	78.898	0.000	0.000	0.24		116.0	OK
1.014	63	10	78.846	0.022	0.000	0.26		117.5	SURCHARGED
1.015	64	8	78.839	0.072	0.000	0.40		117.3	SURCHARGED
1.016	65	3	78.835	0.087	0.000	0.27		122.9	SURCHARGED
1.017	66	3	78.828	0.490	0.000	0.51		121.9	SURCHARGED
1.018	67	3	78.821	0.514	0.000	0.51		95.7	SURCHARGED
1.019	68	4	78.866	0.581	0.000	0.23		78.1	SURCHARGED
1.020	69	5	78.867	0.897	0.000	0.80		75.1	SURCHARGED

Summary Wizard of 15 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1		1	83.427	-0.123	0.000	0.41		19.8	OK
1.001	2		1	83.236	-0.063	0.000	0.84		39.7	OK
1.002	3		1	83.029	-0.061	0.000	0.86		48.4	OK
1.003	4		1	82.618	-0.070	0.000	0.76		48.0	OK
1.004	5		1	82.476	0.033	0.000	1.08		66.8	SURCHARGED
2.000	6		1	81.494	-0.004	0.000	0.59		24.7	OK
2.001	7		1	81.448	0.090	0.000	0.38		33.6	SURCHARGED
3.000	8		1	81.421	0.086	0.000	0.53		19.4	SURCHARGED
2.002	9		1	81.373	0.169	0.000	0.87		47.8	SURCHARGED
2.003	10		1	81.290	0.125	0.000	0.90		49.6	SURCHARGED
1.005	11		1	81.204	0.078	0.000	1.17		107.2	SURCHARGED
1.006	12		1	81.121	0.036	0.000	1.17		110.5	SURCHARGED
1.007	13		1	81.039	0.000	0.000	1.01		140.5	SURCHARGED
4.000	14		1	81.375	-0.154	0.000	0.21		11.4	OK
4.001	15		1	81.075	-0.153	0.000	0.22		11.4	OK

Summary Wizard of 15 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	1	80.981	-0.087	0.000	0.68		35.9	OK
4.003	17	1	80.743	-0.100	0.000	0.76		54.9	OK
5.000	18	1	81.319	-0.161	0.000	0.18		10.6	OK
5.001	19	1	81.074	-0.092	0.000	0.63		33.0	OK
1.008	20	1	80.661	-0.075	0.000	0.99		251.3	OK
1.009	21	1	79.940	-0.130	0.000	0.84		296.8	OK
6.000	22	1	79.988	-0.115	0.000	0.19		7.2	OK
6.001	23	1	79.976	-0.027	0.000	0.28		10.4	OK
6.002	24	1	79.967	0.054	0.000	1.20		45.8	SURCHARGED
6.003	25	1	79.853	0.072	0.000	0.73		49.4	SURCHARGED
6.004	26	1	79.770	0.077	0.000	0.99		64.4	SURCHARGED
7.000	27	1	79.991	-0.158	0.000	0.19		8.7	OK
7.001	28	1	79.790	-0.102	0.000	0.56		26.3	OK
1.010	29	1	79.685	0.063	0.000	0.81		363.3	SURCHARGED
1.011	30	1	79.454	0.354	0.000	1.06		344.6	SURCHARGED
8.000	31	1	79.543	0.296	0.000	0.73		51.9	SURCHARGED
8.001	32	1	79.464	0.368	0.000	0.86		56.3	SURCHARGED
1.012	33	1	79.382	0.359	0.000	0.75		391.0	SURCHARGED
9.000	34	1	82.628	-0.130	0.000	0.36		27.6	OK
10.000	35	1	81.879	-0.104	0.000	0.25		9.4	OK
10.001	36	1	81.857	0.038	0.000	0.70		25.6	SURCHARGED
9.001	37	1	81.774	0.085	0.000	1.21		56.7	SURCHARGED
9.002	38	1	81.503	-0.004	0.000	0.81		81.9	OK
9.003	39	1	81.305	0.093	0.000	0.98		110.8	SURCHARGED
9.004	40	1	80.924	0.109	0.000	1.18		130.2	SURCHARGED
9.005	41	1	80.445	-0.073	0.000	0.92		155.8	OK
11.000	42a	1	82.590	-0.143	0.000	0.28		18.3	OK
11.001	42	1	82.356	-0.094	0.000	0.62		35.1	OK
11.002	43	1	81.832	0.033	0.000	1.07		61.2	SURCHARGED
11.003	44	1	81.558	0.004	0.000	0.90		73.3	SURCHARGED
12.000	45	1	81.164	0.077	0.000	0.15		5.2	SURCHARGED
11.004	46	1	81.158	0.136	0.000	0.79		78.0	SURCHARGED
11.005	47	1	81.016	0.233	0.000	1.34		92.6	SURCHARGED
13.000	48	1	81.901	-0.114	0.000	0.48		24.8	OK
13.001	49	1	81.736	-0.106	0.000	0.53		27.5	OK
13.002	50	1	81.520	-0.094	0.000	0.63		31.6	OK
13.003	51	1	81.354	-0.095	0.000	0.63		31.8	OK
13.004	52	1	81.209	-0.079	0.000	0.72		50.8	OK
11.006	53	1	80.823	0.152	0.000	1.29		138.1	SURCHARGED
11.007	54	1	80.723	0.123	0.000	1.18		140.3	SURCHARGED
11.008	55	1	80.625	0.126	0.000	1.14		135.6	SURCHARGED
11.009	56	1	80.527	0.133	0.000	1.12		131.6	SURCHARGED
11.010	57	1	80.428	0.131	0.000	1.10		135.8	SURCHARGED
11.011	58	1	80.283	0.125	0.000	1.09		129.0	SURCHARGED

Summary Wizard of 15 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	1	80.169	0.109	0.000	0.91		263.9	SURCHARGED
9.007	60	1	79.823	0.221	0.000	0.93		257.1	SURCHARGED
9.008	61	1	79.584	0.265	0.000	0.81		273.8	SURCHARGED
1.013	62	1	79.321	0.423	0.000	1.33		628.7	SURCHARGED
1.014	63	1	79.159	0.334	0.000	1.41		635.9	SURCHARGED
1.015	64	1	78.993	0.226	0.000	2.18		635.8	SURCHARGED
1.016	65	5	78.828	0.080	0.000	1.44		654.3	SURCHARGED
1.017	66	17	78.444	0.106	0.000	2.73		650.5	SURCHARGED
1.018	67	21	78.068	-0.239	0.000	0.11		21.2	OK
1.019	68	21	78.071	-0.214	0.000	0.02		6.6	OK
1.020	69	21	78.071	0.101	0.000	0.00		0.0	SURCHARGED

Summary Wizard of 30 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	4		83.415	-0.135	0.000	0.34		16.1	OK
1.001	2	4		83.210	-0.089	0.000	0.68		31.9	OK
1.002	3	4		83.003	-0.087	0.000	0.69		38.6	OK
1.003	4	4		82.591	-0.097	0.000	0.61		38.6	OK
1.004	5	4		82.386	-0.058	0.000	0.89		55.1	OK
2.000	6	4		81.382	-0.116	0.000	0.47		19.9	OK
2.001	7	4		81.289	-0.069	0.000	0.33		29.0	OK
3.000	8	4		81.298	-0.037	0.000	0.52		18.9	OK
2.002	9	4		81.259	0.055	0.000	0.80		44.0	SURCHARGED
2.003	10	4		81.191	0.026	0.000	0.76		42.0	SURCHARGED
1.005	11	4		81.109	-0.017	0.000	1.00		91.4	OK
1.006	12	4		81.016	-0.070	0.000	1.00		94.6	OK
1.007	13	4		80.956	-0.082	0.000	0.95		132.4	OK
4.000	14	4		81.367	-0.162	0.000	0.17		9.3	OK
4.001	15	4		81.066	-0.162	0.000	0.18		9.2	OK

Summary Wizard of 30 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	4	80.961	-0.107	0.000	0.54		28.2	OK
4.003	17	4	80.712	-0.131	0.000	0.60		43.4	OK
5.000	18	4	81.311	-0.169	0.000	0.14		8.5	OK
5.001	19	4	81.055	-0.111	0.000	0.50		26.1	OK
1.008	20	4	80.634	-0.101	0.000	0.88		221.8	OK
1.009	21	4	79.909	-0.161	0.000	0.73		258.5	OK
6.000	22	4	79.938	-0.165	0.000	0.16		5.9	OK
6.001	23	4	79.886	-0.117	0.000	0.18		6.5	OK
6.002	24	4	79.876	-0.036	0.000	1.00		38.3	OK
6.003	25	2	79.784	0.002	0.000	0.63		42.2	SURCHARGED
6.004	26	2	79.713	0.020	0.000	0.86		56.3	SURCHARGED
7.000	27	4	79.983	-0.166	0.000	0.15		7.1	OK
7.001	28	4	79.773	-0.119	0.000	0.45		21.0	OK
1.010	29	2	79.623	0.002	0.000	0.72		325.8	SURCHARGED
1.011	30	2	79.421	0.320	0.000	1.06		343.4	SURCHARGED
8.000	31	2	79.541	0.294	0.000	0.56		40.0	SURCHARGED
8.001	32	2	79.450	0.354	0.000	0.67		43.5	SURCHARGED
1.012	33	2	79.358	0.336	0.000	0.72		374.9	SURCHARGED
9.000	34	4	82.616	-0.142	0.000	0.29		22.5	OK
10.000	35	4	81.829	-0.154	0.000	0.22		8.0	OK
10.001	36	4	81.753	-0.066	0.000	0.66		24.1	OK
9.001	37	4	81.699	0.010	0.000	1.06		49.2	SURCHARGED
9.002	38	4	81.398	-0.108	0.000	0.72		72.8	OK
9.003	39	4	81.151	-0.061	0.000	0.88		100.0	OK
9.004	40	4	80.848	0.032	0.000	1.07		118.1	SURCHARGED
9.005	41	4	80.428	-0.090	0.000	0.82		139.8	OK
11.000	42a	4	82.581	-0.152	0.000	0.23		14.7	OK
11.001	42	4	82.338	-0.112	0.000	0.50		28.3	OK
11.002	43	4	81.738	-0.061	0.000	0.88		50.1	OK
11.003	44	4	81.478	-0.076	0.000	0.77		62.3	OK
12.000	45	4	80.980	-0.107	0.000	0.12		4.2	OK
11.004	46	4	80.974	-0.048	0.000	0.70		68.9	OK
11.005	47	4	80.865	0.082	0.000	1.21		83.3	SURCHARGED
13.000	48	4	81.886	-0.129	0.000	0.38		19.9	OK
13.001	49	4	81.721	-0.122	0.000	0.43		22.4	OK
13.002	50	4	81.502	-0.112	0.000	0.51		25.5	OK
13.003	51	4	81.337	-0.111	0.000	0.50		25.3	OK
13.004	52	4	81.187	-0.101	0.000	0.58		41.2	OK
11.006	53	4	80.700	0.030	0.000	1.14		121.7	SURCHARGED
11.007	54	4	80.617	0.017	0.000	1.06		126.0	SURCHARGED
11.008	55	4	80.521	0.021	0.000	1.01		120.8	SURCHARGED
11.009	56	3	80.421	0.027	0.000	0.99		116.2	SURCHARGED
11.010	57	4	80.317	0.019	0.000	1.00		123.9	SURCHARGED
11.011	58	2	80.184	0.026	0.000	1.06		124.9	SURCHARGED

Summary Wizard of 30 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	2	80.076	0.016	0.000	0.87		252.7	SURCHARGED
9.007	60	2	79.779	0.177	0.000	0.89		244.9	SURCHARGED
9.008	61	2	79.559	0.240	0.000	0.78		264.3	SURCHARGED
1.013	62	2	79.301	0.403	0.000	1.30		617.8	SURCHARGED
1.014	63	2	79.145	0.321	0.000	1.39		626.3	SURCHARGED
1.015	64	2	78.985	0.218	0.000	2.15		626.2	SURCHARGED
1.016	65	6	78.825	0.077	0.000	1.43		651.1	SURCHARGED
1.017	66	18	78.442	0.104	0.000	2.73		649.9	SURCHARGED
1.018	67	19	78.209	-0.098	0.000	0.09		17.4	OK
1.019	68	19	78.209	-0.076	0.000	0.02		5.1	OK
1.020	69	19	78.210	0.240	0.000	0.00		0.0	SURCHARGED

Summary Wizard of 60 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	6	83.398	-0.152	0.000	0.23		11.1	OK
1.001	2	6	83.181	-0.118	0.000	0.46		21.8	OK
1.002	3	6	82.974	-0.116	0.000	0.47		26.5	OK
1.003	4	6	82.565	-0.124	0.000	0.42		26.5	OK
1.004	5	6	82.347	-0.097	0.000	0.62		38.1	OK
2.000	6	6	81.361	-0.137	0.000	0.32		13.7	OK
2.001	7	6	81.156	-0.202	0.000	0.23		20.5	OK
3.000	8	6	81.220	-0.115	0.000	0.49		17.8	OK
2.002	9	6	81.090	-0.115	0.000	0.70		38.3	OK
2.003	10	6	81.051	-0.115	0.000	0.70		38.3	OK
1.005	11	6	81.014	-0.112	0.000	0.84		76.4	OK
1.006	12	6	80.973	-0.113	0.000	0.83		78.6	OK
1.007	13	6	80.908	-0.131	0.000	0.75		104.4	OK
4.000	14	6	81.355	-0.174	0.000	0.12		6.3	OK
4.001	15	6	81.055	-0.173	0.000	0.12		6.3	OK

Summary Wizard of 60 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	6	80.937	-0.131	0.000	0.37		19.3	OK
4.003	17	6	80.676	-0.167	0.000	0.41		29.6	OK
5.000	18	6	81.302	-0.178	0.000	0.10		5.9	OK
5.001	19	6	81.032	-0.134	0.000	0.34		17.8	OK
1.008	20	6	80.582	-0.154	0.000	0.65		165.4	OK
1.009	21	6	79.856	-0.214	0.000	0.54		191.1	OK
6.000	22	6	79.927	-0.176	0.000	0.11		4.1	OK
6.001	23	6	79.843	-0.160	0.000	0.11		4.1	OK
6.002	24	6	79.826	-0.086	0.000	0.70		26.6	OK
6.003	25	6	79.620	-0.162	0.000	0.44		29.3	OK
6.004	26	6	79.561	-0.132	0.000	0.60		39.1	OK
7.000	27	6	79.973	-0.176	0.000	0.11		4.9	OK
7.001	28	6	79.752	-0.140	0.000	0.31		14.4	OK
1.010	29	6	79.375	-0.246	0.000	0.55		248.6	OK
1.011	30	6	79.163	0.062	0.000	0.84		272.2	SURCHARGED
8.000	31	6	79.185	-0.062	0.000	0.41		29.2	OK
8.001	32	6	79.133	0.037	0.000	0.54		35.3	SURCHARGED
1.012	33	6	79.045	0.023	0.000	0.62		321.0	SURCHARGED
9.000	34	6	82.601	-0.157	0.000	0.20		15.5	OK
10.000	35	6	81.815	-0.168	0.000	0.15		5.5	OK
10.001	36	6	81.702	-0.117	0.000	0.47		17.1	OK
9.001	37	6	81.612	-0.077	0.000	0.76		35.5	OK
9.002	38	6	81.361	-0.146	0.000	0.52		52.6	OK
9.003	39	6	81.087	-0.125	0.000	0.64		72.5	OK
9.004	40	6	80.715	-0.100	0.000	0.78		85.7	OK
9.005	41	6	80.386	-0.132	0.000	0.60		101.6	OK
11.000	42a	6	82.567	-0.166	0.000	0.16		10.1	OK
11.001	42	6	82.316	-0.134	0.000	0.34		19.4	OK
11.002	43	6	81.700	-0.099	0.000	0.60		34.3	OK
11.003	44	6	81.445	-0.109	0.000	0.53		42.6	OK
12.000	45	6	80.904	-0.183	0.000	0.08		2.6	OK
11.004	46	6	80.871	-0.151	0.000	0.50		49.1	OK
11.005	47	6	80.702	-0.081	0.000	0.88		60.7	OK
13.000	48	6	81.868	-0.147	0.000	0.26		13.7	OK
13.001	49	6	81.701	-0.142	0.000	0.29		15.3	OK
13.002	50	6	81.480	-0.134	0.000	0.35		17.4	OK
13.003	51	6	81.315	-0.134	0.000	0.35		17.4	OK
13.004	52	6	81.162	-0.126	0.000	0.40		28.3	OK
11.006	53	6	80.558	-0.113	0.000	0.83		89.0	OK
11.007	54	6	80.475	-0.125	0.000	0.78		92.3	OK
11.008	55	6	80.373	-0.126	0.000	0.77		92.3	OK
11.009	56	6	80.270	-0.124	0.000	0.78		92.0	OK
11.010	57	6	80.186	-0.112	0.000	0.83		103.1	OK
11.011	58	6	80.055	-0.104	0.000	0.87		102.8	OK

Summary Wizard of 60 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	6	79.885	-0.175	0.000	0.69		200.3	OK
9.007	60	6	79.445	-0.158	0.000	0.75		206.9	OK
9.008	61	6	79.193	-0.126	0.000	0.68		228.8	OK
1.013	62	6	78.998	0.100	0.000	1.16		551.6	SURCHARGED
1.014	63	6	78.900	0.075	0.000	1.25		561.5	SURCHARGED
1.015	64	10	78.810	0.043	0.000	1.93		561.9	SURCHARGED
1.016	65	14	78.752	0.004	0.000	1.30		589.4	SURCHARGED
1.017	66	22	78.400	0.062	0.000	2.47		587.4	SURCHARGED
1.018	67	17	78.398	0.091	0.000	0.43		79.4	SURCHARGED
1.019	68	17	78.508	0.223	0.000	0.11		36.9	SURCHARGED
1.020	69	17	78.522	0.552	0.000	0.01		1.0	SURCHARGED

Summary Wizard of 120 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	9	83.382	-0.168	0.000	0.15		7.1	OK
1.001	2	9	83.157	-0.142	0.000	0.30		13.9	OK
1.002	3	9	82.949	-0.141	0.000	0.30		16.9	OK
1.003	4	9	82.542	-0.146	0.000	0.27		16.9	OK
1.004	5	9	82.317	-0.127	0.000	0.40		24.4	OK
2.000	6	9	81.342	-0.156	0.000	0.21		8.7	OK
2.001	7	9	81.135	-0.223	0.000	0.15		13.1	OK
3.000	8	9	81.217	-0.118	0.000	0.46		16.8	OK
2.002	9	9	81.063	-0.142	0.000	0.55		29.9	OK
2.003	10	9	81.023	-0.142	0.000	0.54		29.9	OK
1.005	11	9	80.959	-0.167	0.000	0.59		54.3	OK
1.006	12	9	80.918	-0.168	0.000	0.59		55.7	OK
1.007	13	9	80.856	-0.183	0.000	0.52		72.7	OK
4.000	14	9	81.345	-0.184	0.000	0.08		4.1	OK
4.001	15	9	81.044	-0.184	0.000	0.08		4.1	OK

Summary Wizard of 120 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	9	80.916	-0.152	0.000	0.23		12.3	OK
4.003	17	9	80.647	-0.196	0.000	0.26		18.8	OK
5.000	18	9	81.291	-0.189	0.000	0.06		3.7	OK
5.001	19	9	81.012	-0.154	0.000	0.22		11.3	OK
1.008	20	9	80.535	-0.201	0.000	0.44		112.0	OK
1.009	21	9	79.807	-0.263	0.000	0.36		128.7	OK
6.000	22	9	79.917	-0.186	0.000	0.07		2.6	OK
6.001	23	9	79.822	-0.181	0.000	0.07		2.6	OK
6.002	24	9	79.792	-0.120	0.000	0.44		17.0	OK
6.003	25	9	79.589	-0.193	0.000	0.28		18.7	OK
6.004	26	9	79.521	-0.171	0.000	0.38		25.0	OK
7.000	27	9	79.962	-0.187	0.000	0.07		3.1	OK
7.001	28	9	79.734	-0.158	0.000	0.20		9.2	OK
1.010	29	9	79.317	-0.305	0.000	0.37		165.7	OK
1.011	30	8	79.111	0.010	0.000	0.52		170.3	SURCHARGED
8.000	31	8	79.081	-0.166	0.000	0.27		18.9	OK
8.001	32	8	79.061	-0.035	0.000	0.43		28.4	OK
1.012	33	18	79.023	0.000	0.000	0.38		198.8	OK
9.000	34	9	82.586	-0.172	0.000	0.13		9.9	OK
10.000	35	9	81.804	-0.179	0.000	0.09		3.5	OK
10.001	36	9	81.678	-0.141	0.000	0.30		10.9	OK
9.001	37	9	81.575	-0.114	0.000	0.49		22.7	OK
9.002	38	9	81.326	-0.181	0.000	0.33		33.7	OK
9.003	39	9	81.046	-0.166	0.000	0.41		46.6	OK
9.004	40	9	80.665	-0.150	0.000	0.50		55.1	OK
9.005	41	9	80.347	-0.171	0.000	0.39		65.3	OK
11.000	42a	9	82.555	-0.178	0.000	0.10		6.4	OK
11.001	42	9	82.296	-0.154	0.000	0.22		12.4	OK
11.002	43	9	81.670	-0.129	0.000	0.38		21.8	OK
11.003	44	9	81.419	-0.135	0.000	0.34		27.2	OK
12.000	45	9	80.894	-0.193	0.000	0.05		1.7	OK
11.004	46	9	80.838	-0.184	0.000	0.32		31.3	OK
11.005	47	9	80.644	-0.139	0.000	0.56		38.9	OK
13.000	48	9	81.852	-0.163	0.000	0.17		8.7	OK
13.001	49	9	81.683	-0.160	0.000	0.19		9.8	OK
13.002	50	9	81.460	-0.154	0.000	0.22		11.1	OK
13.003	51	9	81.295	-0.154	0.000	0.22		11.1	OK
13.004	52	9	81.140	-0.148	0.000	0.26		18.1	OK
11.006	53	9	80.490	-0.181	0.000	0.53		57.0	OK
11.007	54	9	80.412	-0.187	0.000	0.50		59.2	OK
11.008	55	9	80.311	-0.188	0.000	0.50		59.2	OK
11.009	56	9	80.207	-0.187	0.000	0.50		59.2	OK
11.010	57	9	80.119	-0.178	0.000	0.54		66.8	OK
11.011	58	9	79.985	-0.173	0.000	0.57		66.8	OK

Summary Wizard of 120 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	9	79.821	-0.239	0.000	0.45		131.3	OK
9.007	60	9	79.375	-0.227	0.000	0.49		135.8	OK
9.008	61	9	79.080	-0.239	0.000	0.45		151.1	OK
1.013	62	21	78.898	0.000	0.000	0.72		341.0	OK
1.014	63	21	78.825	0.000	0.000	0.77		344.1	OK
1.015	64	19	78.767	0.000	0.000	1.18		344.0	OK
1.016	65	22	78.611	-0.137	0.000	0.79		358.8	OK
1.017	66	15	78.597	0.259	0.000	1.50		357.6	SURCHARGED
1.018	67	15	78.595	0.288	0.000	0.47		88.1	SURCHARGED
1.019	68	14	78.673	0.388	0.000	0.13		44.0	SURCHARGED
1.020	69	15	78.680	0.710	0.000	0.13		12.1	SURCHARGED

Summary Wizard of 180 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	11	83.375	-0.175	0.000	0.11		5.3	OK
1.001	2	11	83.146	-0.153	0.000	0.22		10.5	OK
1.002	3	11	82.937	-0.153	0.000	0.23		12.8	OK
1.003	4	11	82.532	-0.157	0.000	0.20		12.8	OK
1.004	5	11	82.303	-0.141	0.000	0.30		18.4	OK
2.000	6	11	81.332	-0.166	0.000	0.16		6.6	OK
2.001	7	11	81.125	-0.233	0.000	0.11		9.9	OK
3.000	8	11	81.215	-0.120	0.000	0.45		16.3	OK
2.002	9	11	81.051	-0.154	0.000	0.48		26.2	OK
2.003	10	11	81.011	-0.154	0.000	0.48		26.2	OK
1.005	11	11	80.936	-0.190	0.000	0.49		44.7	OK
1.006	12	11	80.895	-0.191	0.000	0.48		45.8	OK
1.007	13	11	80.833	-0.206	0.000	0.42		58.6	OK
4.000	14	11	81.339	-0.190	0.000	0.06		3.1	OK
4.001	15	11	81.038	-0.190	0.000	0.06		3.1	OK

Summary Wizard of 180 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	11	80.906	-0.162	0.000	0.18		9.3	OK
4.003	17	11	80.633	-0.210	0.000	0.20		14.2	OK
5.000	18	11	81.286	-0.194	0.000	0.05		2.8	OK
5.001	19	11	81.002	-0.164	0.000	0.16		8.6	OK
1.008	20	11	80.513	-0.222	0.000	0.35		88.4	OK
1.009	21	11	79.783	-0.287	0.000	0.29		101.1	OK
6.000	22	11	79.911	-0.192	0.000	0.05		2.0	OK
6.001	23	11	79.813	-0.190	0.000	0.05		2.0	OK
6.002	24	11	79.777	-0.136	0.000	0.33		12.8	OK
6.003	25	11	79.575	-0.207	0.000	0.21		14.1	OK
6.004	26	11	79.503	-0.190	0.000	0.29		18.9	OK
7.000	27	11	79.957	-0.192	0.000	0.05		2.4	OK
7.001	28	11	79.724	-0.168	0.000	0.15		6.9	OK
1.010	29	11	79.288	-0.334	0.000	0.29		129.1	OK
1.011	30	20	79.054	-0.047	0.000	0.42		137.4	OK
8.000	31	14	79.038	-0.209	0.000	0.20		14.3	OK
8.001	32	20	79.004	-0.092	0.000	0.27		17.3	OK
1.012	33	20	79.003	-0.020	0.000	0.31		163.4	OK
9.000	34	11	82.580	-0.178	0.000	0.10		7.5	OK
10.000	35	11	81.797	-0.186	0.000	0.07		2.7	OK
10.001	36	11	81.666	-0.153	0.000	0.23		8.2	OK
9.001	37	11	81.558	-0.131	0.000	0.37		17.2	OK
9.002	38	11	81.309	-0.198	0.000	0.25		25.5	OK
9.003	39	11	81.026	-0.186	0.000	0.31		35.2	OK
9.004	40	11	80.642	-0.173	0.000	0.38		41.7	OK
9.005	41	11	80.328	-0.190	0.000	0.29		49.4	OK
11.000	42a	11	82.549	-0.184	0.000	0.08		4.9	OK
11.001	42	11	82.286	-0.164	0.000	0.16		9.3	OK
11.002	43	11	81.656	-0.143	0.000	0.29		16.5	OK
11.003	44	11	81.405	-0.149	0.000	0.25		20.5	OK
12.000	45	11	80.890	-0.197	0.000	0.04		1.3	OK
11.004	46	11	80.821	-0.201	0.000	0.24		23.6	OK
11.005	47	11	80.619	-0.164	0.000	0.42		29.4	OK
13.000	48	11	81.843	-0.172	0.000	0.13		6.6	OK
13.001	49	11	81.674	-0.169	0.000	0.14		7.4	OK
13.002	50	11	81.450	-0.164	0.000	0.17		8.4	OK
13.003	51	11	81.285	-0.164	0.000	0.17		8.4	OK
13.004	52	11	81.130	-0.158	0.000	0.19		13.7	OK
11.006	53	11	80.460	-0.210	0.000	0.40		43.0	OK
11.007	54	11	80.384	-0.216	0.000	0.38		44.7	OK
11.008	55	11	80.283	-0.216	0.000	0.37		44.7	OK
11.009	56	11	80.179	-0.215	0.000	0.38		44.7	OK
11.010	57	11	80.089	-0.208	0.000	0.41		50.6	OK
11.011	58	11	79.954	-0.204	0.000	0.43		50.6	OK

Summary Wizard of 180 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	11	79.791	-0.269	0.000	0.34		99.7	OK
9.007	60	11	79.342	-0.260	0.000	0.37		103.0	OK
9.008	61	11	79.050	-0.269	0.000	0.34		114.8	OK
1.013	62	15	78.898	0.000	0.000	0.60		282.6	OK
1.014	63	18	78.825	0.000	0.000	0.64		288.1	OK
1.015	64	21	78.746	-0.021	0.000	0.99		288.2	OK
1.016	65	20	78.719	-0.028	0.000	0.67		303.3	OK
1.017	66	13	78.654	0.316	0.000	1.27		303.2	SURCHARGED
1.018	67	13	78.651	0.344	0.000	0.46		86.2	SURCHARGED
1.019	68	11	78.736	0.451	0.000	0.14		46.4	SURCHARGED
1.020	69	11	78.745	0.775	0.000	0.21		20.0	SURCHARGED

Summary Wizard of 240 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	13	83.370	-0.180	0.000	0.09		4.3	OK
1.001	2	13	83.138	-0.161	0.000	0.18		8.6	OK
1.002	3	13	82.930	-0.160	0.000	0.19		10.4	OK
1.003	4	13	82.524	-0.164	0.000	0.16		10.4	OK
1.004	5	13	82.294	-0.150	0.000	0.24		15.0	OK
2.000	6	13	81.326	-0.172	0.000	0.13		5.4	OK
2.001	7	13	81.119	-0.239	0.000	0.09		8.1	OK
3.000	8	13	81.214	-0.121	0.000	0.44		16.1	OK
2.002	9	13	81.044	-0.161	0.000	0.44		24.1	OK
2.003	10	13	81.004	-0.161	0.000	0.44		24.1	OK
1.005	11	13	80.922	-0.204	0.000	0.43		39.2	OK
1.006	12	13	80.881	-0.205	0.000	0.42		40.0	OK
1.007	13	13	80.819	-0.219	0.000	0.36		50.5	OK
4.000	14	13	81.335	-0.194	0.000	0.05		2.5	OK
4.001	15	13	81.034	-0.194	0.000	0.05		2.5	OK

Summary Wizard of 240 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	13	80.899	-0.169	0.000	0.14		7.5	OK
4.003	17	13	80.623	-0.220	0.000	0.16		11.6	OK
5.000	18	13	81.283	-0.197	0.000	0.04		2.3	OK
5.001	19	13	80.995	-0.171	0.000	0.13		7.0	OK
1.008	20	13	80.500	-0.236	0.000	0.30		74.8	OK
1.009	21	13	79.769	-0.301	0.000	0.24		85.1	OK
6.000	22	13	79.908	-0.195	0.000	0.04		1.6	OK
6.001	23	13	79.809	-0.194	0.000	0.04		1.6	OK
6.002	24	13	79.767	-0.145	0.000	0.27		10.4	OK
6.003	25	13	79.565	-0.217	0.000	0.17		11.5	OK
6.004	26	13	79.491	-0.202	0.000	0.24		15.4	OK
7.000	27	13	79.953	-0.196	0.000	0.04		1.9	OK
7.001	28	13	79.719	-0.173	0.000	0.12		5.6	OK
1.010	29	13	79.270	-0.352	0.000	0.24		107.9	OK
1.011	30	18	79.102	0.002	0.000	0.35		114.7	SURCHARGED
8.000	31	21	79.029	-0.218	0.000	0.16		11.6	OK
8.001	32	18	79.026	-0.070	0.000	0.22		14.1	OK
1.012	33	13	79.023	0.000	0.000	0.26		136.4	OK
9.000	34	13	82.575	-0.183	0.000	0.08		6.1	OK
10.000	35	13	81.793	-0.190	0.000	0.06		2.2	OK
10.001	36	13	81.659	-0.160	0.000	0.18		6.7	OK
9.001	37	13	81.548	-0.141	0.000	0.30		14.0	OK
9.002	38	13	81.299	-0.208	0.000	0.21		20.8	OK
9.003	39	13	81.014	-0.198	0.000	0.25		28.7	OK
9.004	40	13	80.629	-0.187	0.000	0.31		33.9	OK
9.005	41	13	80.317	-0.201	0.000	0.24		40.2	OK
11.000	42a	13	82.544	-0.189	0.000	0.06		4.0	OK
11.001	42	13	82.279	-0.171	0.000	0.13		7.6	OK
11.002	43	13	81.648	-0.151	0.000	0.23		13.4	OK
11.003	44	13	81.398	-0.156	0.000	0.21		16.7	OK
12.000	45	13	80.888	-0.199	0.000	0.03		1.0	OK
11.004	46	13	80.811	-0.211	0.000	0.19		19.2	OK
11.005	47	13	80.604	-0.179	0.000	0.35		23.9	OK
13.000	48	13	81.838	-0.177	0.000	0.10		5.4	OK
13.001	49	13	81.668	-0.174	0.000	0.12		6.0	OK
13.002	50	13	81.444	-0.170	0.000	0.14		6.8	OK
13.003	51	13	81.278	-0.170	0.000	0.14		6.8	OK
13.004	52	13	81.122	-0.166	0.000	0.16		11.1	OK
11.006	53	13	80.443	-0.228	0.000	0.33		35.0	OK
11.007	54	13	80.367	-0.233	0.000	0.31		36.4	OK
11.008	55	13	80.266	-0.234	0.000	0.31		36.4	OK
11.009	56	13	80.161	-0.233	0.000	0.31		36.4	OK
11.010	57	13	80.071	-0.226	0.000	0.33		41.2	OK
11.011	58	13	79.936	-0.222	0.000	0.35		41.2	OK

Summary Wizard of 240 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	13	79.771	-0.289	0.000	0.28		81.2	OK
9.007	60	13	79.322	-0.281	0.000	0.30		84.0	OK
9.008	61	13	79.030	-0.289	0.000	0.28		93.7	OK
1.013	62	19	78.898	0.000	0.000	0.49		234.2	OK
1.014	63	19	78.825	0.000	0.000	0.53		238.9	OK
1.015	64	17	78.767	0.000	0.000	0.82		238.9	OK
1.016	65	17	78.748	0.000	0.000	0.55		251.0	OK
1.017	66	11	78.710	0.372	0.000	1.05		250.1	SURCHARGED
1.018	67	11	78.706	0.399	0.000	0.43		79.2	SURCHARGED
1.019	68	10	78.767	0.482	0.000	0.14		47.4	SURCHARGED
1.020	69	10	78.765	0.795	0.000	0.36		33.8	SURCHARGED

Summary Wizard of 360 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	15		83.363	-0.187	0.000	0.07		3.2	OK
1.001	2	15		83.129	-0.170	0.000	0.13		6.4	OK
1.002	3	15		82.920	-0.170	0.000	0.14		7.8	OK
1.003	4	15		82.516	-0.173	0.000	0.12		7.8	OK
1.004	5	15		82.283	-0.161	0.000	0.18		11.2	OK
2.000	6	15		81.319	-0.179	0.000	0.09		4.0	OK
2.001	7	15		81.109	-0.249	0.000	0.07		6.0	OK
3.000	8	15		81.213	-0.122	0.000	0.43		15.8	OK
2.002	9	15		81.036	-0.169	0.000	0.40		21.8	OK
2.003	10	15		80.997	-0.169	0.000	0.40		21.8	OK
1.005	11	15		80.906	-0.220	0.000	0.36		33.0	OK
1.006	12	15		80.865	-0.221	0.000	0.36		33.7	OK
1.007	13	15		80.803	-0.236	0.000	0.30		41.5	OK
4.000	14	15		81.331	-0.198	0.000	0.03		1.9	OK
4.001	15	15		81.030	-0.198	0.000	0.04		1.9	OK

Summary Wizard of 360 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	15	80.892	-0.176	0.000	0.11		5.6	OK
4.003	17	15	80.612	-0.231	0.000	0.12		8.6	OK
5.000	18	15	81.280	-0.200	0.000	0.03		1.7	OK
5.001	19	15	80.988	-0.178	0.000	0.10		5.2	OK
1.008	20	15	80.484	-0.252	0.000	0.24		59.6	OK
1.009	21	15	79.752	-0.318	0.000	0.19		67.3	OK
6.000	22	15	79.904	-0.199	0.000	0.03		1.2	OK
6.001	23	15	79.804	-0.199	0.000	0.03		1.2	OK
6.002	24	15	79.756	-0.157	0.000	0.20		7.8	OK
6.003	25	15	79.553	-0.229	0.000	0.13		8.6	OK
6.004	26	15	79.477	-0.216	0.000	0.18		11.5	OK
7.000	27	15	79.950	-0.199	0.000	0.03		1.4	OK
7.001	28	15	79.712	-0.180	0.000	0.09		4.2	OK
1.010	29	15	79.249	-0.372	0.000	0.19		84.2	OK
1.011	30	12	79.106	0.005	0.000	0.27		89.3	SURCHARGED
8.000	31	16	79.037	-0.210	0.000	0.12		8.7	OK
8.001	32	14	79.029	-0.067	0.000	0.16		10.5	OK
1.012	33	17	79.023	0.000	0.000	0.20		105.6	OK
9.000	34	15	82.568	-0.190	0.000	0.06		4.5	OK
10.000	35	15	81.788	-0.195	0.000	0.04		1.6	OK
10.001	36	15	81.649	-0.170	0.000	0.14		5.0	OK
9.001	37	15	81.536	-0.153	0.000	0.22		10.4	OK
9.002	38	15	81.285	-0.222	0.000	0.15		15.5	OK
9.003	39	15	81.000	-0.212	0.000	0.19		21.4	OK
9.004	40	15	80.612	-0.203	0.000	0.23		25.3	OK
9.005	41	15	80.302	-0.216	0.000	0.18		30.0	OK
11.000	42a	15	82.539	-0.194	0.000	0.05		3.0	OK
11.001	42	15	82.272	-0.178	0.000	0.10		5.7	OK
11.002	43	15	81.637	-0.162	0.000	0.17		10.0	OK
11.003	44	15	81.387	-0.167	0.000	0.15		12.4	OK
12.000	45	15	80.885	-0.202	0.000	0.02		0.8	OK
11.004	46	15	80.798	-0.224	0.000	0.15		14.3	OK
11.005	47	15	80.586	-0.197	0.000	0.26		17.8	OK
13.000	48	15	81.831	-0.184	0.000	0.08		4.0	OK
13.001	49	15	81.662	-0.181	0.000	0.09		4.5	OK
13.002	50	15	81.436	-0.177	0.000	0.10		5.1	OK
13.003	51	15	81.271	-0.177	0.000	0.10		5.1	OK
13.004	52	15	81.114	-0.174	0.000	0.12		8.3	OK
11.006	53	15	80.421	-0.250	0.000	0.24		26.1	OK
11.007	54	15	80.346	-0.254	0.000	0.23		27.1	OK
11.008	55	15	80.245	-0.254	0.000	0.23		27.1	OK
11.009	56	15	80.140	-0.254	0.000	0.23		27.1	OK
11.010	57	15	80.049	-0.249	0.000	0.25		30.7	OK
11.011	58	15	79.913	-0.246	0.000	0.26		30.7	OK

Summary Wizard of 360 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	15	79.749	-0.311	0.000	0.21		60.6	OK
9.007	60	15	79.297	-0.305	0.000	0.23		62.7	OK
9.008	61	15	79.007	-0.312	0.000	0.21		69.9	OK
1.013	62	10	78.898	0.000	0.000	0.38		178.8	OK
1.014	63	15	78.825	0.000	0.000	0.41		182.4	OK
1.015	64	14	78.768	0.000	0.000	0.63		182.4	SURCHARGED
1.016	65	12	78.764	0.017	0.000	0.42		190.9	SURCHARGED
1.017	66	7	78.759	0.421	0.000	0.80		190.3	SURCHARGED
1.018	67	7	78.753	0.446	0.000	0.45		84.6	SURCHARGED
1.019	68	7	78.820	0.535	0.000	0.16		54.5	SURCHARGED
1.020	69	7	78.818	0.848	0.000	0.50		46.6	SURCHARGED

Summary Wizard of 480 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	18		83.359	-0.191	0.000	0.05		2.6	OK
1.001	2	18		83.123	-0.176	0.000	0.11		5.2	OK
1.002	3	18		82.915	-0.175	0.000	0.11		6.3	OK
1.003	4	18		82.511	-0.178	0.000	0.10		6.3	OK
1.004	5	18		82.276	-0.168	0.000	0.15		9.1	OK
2.000	6	18		81.314	-0.184	0.000	0.08		3.2	OK
2.001	7	18		81.103	-0.255	0.000	0.06		4.9	OK
3.000	8	18		81.212	-0.123	0.000	0.43		15.7	OK
2.002	9	18		81.031	-0.173	0.000	0.38		20.5	OK
2.003	10	18		80.992	-0.173	0.000	0.37		20.5	OK
1.005	11	18		80.897	-0.229	0.000	0.32		29.6	OK
1.006	12	18		80.856	-0.230	0.000	0.32		30.1	OK
1.007	13	18		80.793	-0.245	0.000	0.26		36.5	OK
4.000	14	18		81.329	-0.200	0.000	0.03		1.5	OK
4.001	15	18		81.028	-0.200	0.000	0.03		1.5	OK

Summary Wizard of 480 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	18	80.887	-0.181	0.000	0.09		4.5	OK
4.003	17	18	80.605	-0.238	0.000	0.10		7.0	OK
5.000	18	18	81.278	-0.202	0.000	0.02		1.4	OK
5.001	19	18	80.983	-0.183	0.000	0.08		4.2	OK
1.008	20	18	80.475	-0.261	0.000	0.20		51.1	OK
1.009	21	18	79.740	-0.329	0.000	0.16		57.4	OK
6.000	22	18	79.902	-0.201	0.000	0.03		1.0	OK
6.001	23	18	79.802	-0.201	0.000	0.03		1.0	OK
6.002	24	18	79.748	-0.164	0.000	0.16		6.3	OK
6.003	25	18	79.546	-0.236	0.000	0.10		6.9	OK
6.004	26	18	79.468	-0.225	0.000	0.14		9.3	OK
7.000	27	18	79.948	-0.201	0.000	0.03		1.2	OK
7.001	28	18	79.707	-0.185	0.000	0.07		3.4	OK
1.010	29	18	79.235	-0.386	0.000	0.16		71.1	OK
1.011	30	11	79.106	0.005	0.000	0.23		75.2	SURCHARGED
8.000	31	11	79.039	-0.208	0.000	0.10		7.0	OK
8.001	32	10	79.031	-0.065	0.000	0.13		8.5	OK
1.012	33	14	79.023	0.000	0.000	0.17		88.1	OK
9.000	34	18	82.564	-0.194	0.000	0.05		3.7	OK
10.000	35	18	81.785	-0.198	0.000	0.04		1.3	OK
10.001	36	18	81.644	-0.175	0.000	0.11		4.0	OK
9.001	37	18	81.528	-0.161	0.000	0.18		8.4	OK
9.002	38	18	81.277	-0.230	0.000	0.12		12.5	OK
9.003	39	18	80.990	-0.222	0.000	0.15		17.3	OK
9.004	40	18	80.602	-0.213	0.000	0.19		20.5	OK
9.005	41	18	80.293	-0.225	0.000	0.14		24.3	OK
11.000	42a	18	82.536	-0.197	0.000	0.04		2.4	OK
11.001	42	18	82.267	-0.183	0.000	0.08		4.6	OK
11.002	43	18	81.630	-0.169	0.000	0.14		8.1	OK
11.003	44	18	81.381	-0.173	0.000	0.12		10.1	OK
12.000	45	18	80.881	-0.206	0.000	0.02		0.6	OK
11.004	46	18	80.790	-0.232	0.000	0.12		11.6	OK
11.005	47	18	80.575	-0.208	0.000	0.21		14.4	OK
13.000	48	18	81.826	-0.189	0.000	0.06		3.2	OK
13.001	49	18	81.657	-0.186	0.000	0.07		3.6	OK
13.002	50	18	81.432	-0.182	0.000	0.08		4.1	OK
13.003	51	18	81.266	-0.182	0.000	0.08		4.1	OK
13.004	52	18	81.109	-0.179	0.000	0.10		6.7	OK
11.006	53	18	80.408	-0.262	0.000	0.20		21.1	OK
11.007	54	18	80.333	-0.266	0.000	0.19		22.0	OK
11.008	55	18	80.233	-0.267	0.000	0.18		22.0	OK
11.009	56	18	80.128	-0.266	0.000	0.19		22.0	OK
11.010	57	18	80.036	-0.261	0.000	0.20		24.9	OK
11.011	58	18	79.900	-0.259	0.000	0.21		24.9	OK

Summary Wizard of 480 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	18	79.733	-0.327	0.000	0.17		49.2	OK
9.007	60	18	79.282	-0.320	0.000	0.18		50.9	OK
9.008	61	18	78.992	-0.327	0.000	0.17		56.7	OK
1.013	62	17	78.898	0.000	0.000	0.31		145.3	OK
1.014	63	16	78.825	0.000	0.000	0.33		146.5	OK
1.015	64	11	78.803	0.036	0.000	0.50		144.9	SURCHARGED
1.016	65	10	78.800	0.052	0.000	0.33		151.6	SURCHARGED
1.017	66	5	78.793	0.455	0.000	0.63		150.9	SURCHARGED
1.018	67	5	78.787	0.480	0.000	0.53		98.4	SURCHARGED
1.019	68	6	78.851	0.566	0.000	0.19		64.3	SURCHARGED
1.020	69	4	78.869	0.899	0.000	0.59		55.3	SURCHARGED

Summary Wizard of 600 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	19		83.356	-0.194	0.000	0.05		2.2	OK
1.001	2	19		83.120	-0.179	0.000	0.09		4.4	OK
1.002	3	19		82.911	-0.179	0.000	0.09		5.3	OK
1.003	4	19		82.507	-0.181	0.000	0.08		5.3	OK
1.004	5	19		82.271	-0.173	0.000	0.12		7.7	OK
2.000	6	19		81.310	-0.188	0.000	0.07		2.7	OK
2.001	7	19		81.099	-0.259	0.000	0.05		4.1	OK
3.000	8	19		81.212	-0.123	0.000	0.42		15.6	OK
2.002	9	19		81.028	-0.176	0.000	0.36		19.7	OK
2.003	10	19		80.989	-0.176	0.000	0.36		19.7	OK
1.005	11	19		80.891	-0.235	0.000	0.30		27.4	OK
1.006	12	19		80.849	-0.237	0.000	0.29		27.8	OK
1.007	13	19		80.787	-0.251	0.000	0.24		33.2	OK
4.000	14	19		81.327	-0.202	0.000	0.02		1.3	OK
4.001	15	19		81.027	-0.201	0.000	0.02		1.3	OK

Summary Wizard of 600 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	19	80.883	-0.185	0.000	0.07		3.9	OK
4.003	17	19	80.600	-0.243	0.000	0.08		5.9	OK
5.000	18	19	81.276	-0.204	0.000	0.02		1.2	OK
5.001	19	19	80.979	-0.187	0.000	0.07		3.6	OK
1.008	20	19	80.468	-0.268	0.000	0.18		45.7	OK
1.009	21	19	79.733	-0.337	0.000	0.14		51.0	OK
6.000	22	19	79.901	-0.202	0.000	0.02		0.8	OK
6.001	23	19	79.801	-0.202	0.000	0.02		0.8	OK
6.002	24	19	79.743	-0.169	0.000	0.14		5.3	OK
6.003	25	19	79.541	-0.240	0.000	0.09		5.9	OK
6.004	26	19	79.462	-0.231	0.000	0.12		7.9	OK
7.000	27	19	79.947	-0.202	0.000	0.02		1.0	OK
7.001	28	19	79.703	-0.189	0.000	0.06		2.9	OK
1.010	29	19	79.226	-0.396	0.000	0.14		62.6	OK
1.011	30	10	79.106	0.005	0.000	0.20		66.1	SURCHARGED
8.000	31	15	79.037	-0.210	0.000	0.08		6.0	OK
8.001	32	11	79.030	-0.066	0.000	0.11		7.2	OK
1.012	33	10	79.023	0.000	0.000	0.15		75.9	OK
9.000	34	19	82.562	-0.196	0.000	0.04		3.1	OK
10.000	35	19	81.783	-0.200	0.000	0.03		1.1	OK
10.001	36	19	81.640	-0.179	0.000	0.09		3.4	OK
9.001	37	19	81.522	-0.167	0.000	0.15		7.2	OK
9.002	38	19	81.271	-0.235	0.000	0.11		10.6	OK
9.003	39	19	80.983	-0.229	0.000	0.13		14.7	OK
9.004	40	19	80.594	-0.221	0.000	0.16		17.4	OK
9.005	41	19	80.287	-0.231	0.000	0.12		20.6	OK
11.000	42a	19	82.534	-0.199	0.000	0.03		2.0	OK
11.001	42	19	82.263	-0.187	0.000	0.07		3.9	OK
11.002	43	19	81.626	-0.173	0.000	0.12		6.9	OK
11.003	44	19	81.378	-0.176	0.000	0.11		8.5	OK
12.000	45	19	80.878	-0.209	0.000	0.02		0.5	OK
11.004	46	19	80.785	-0.237	0.000	0.10		9.8	OK
11.005	47	19	80.567	-0.216	0.000	0.18		12.2	OK
13.000	48	19	81.823	-0.192	0.000	0.05		2.7	OK
13.001	49	19	81.653	-0.190	0.000	0.06		3.1	OK
13.002	50	19	81.427	-0.186	0.000	0.07		3.5	OK
13.003	51	19	81.262	-0.186	0.000	0.07		3.5	OK
13.004	52	19	81.105	-0.183	0.000	0.08		5.7	OK
11.006	53	19	80.398	-0.273	0.000	0.17		17.9	OK
11.007	54	19	80.324	-0.276	0.000	0.16		18.6	OK
11.008	55	19	80.223	-0.277	0.000	0.16		18.6	OK
11.009	56	19	80.118	-0.276	0.000	0.16		18.6	OK
11.010	57	19	80.026	-0.271	0.000	0.17		21.1	OK
11.011	58	19	79.890	-0.269	0.000	0.18		21.1	OK

Summary Wizard of 600 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	19	79.723	-0.337	0.000	0.14		41.7	OK
9.007	60	19	79.271	-0.332	0.000	0.16		43.2	OK
9.008	61	19	78.981	-0.338	0.000	0.14		48.2	OK
1.013	62	9	78.898	0.000	0.000	0.26		123.5	SURCHARGED
1.014	63	11	78.843	0.018	0.000	0.27		123.2	SURCHARGED
1.015	64	9	78.836	0.069	0.000	0.42		122.1	SURCHARGED
1.016	65	4	78.832	0.084	0.000	0.28		126.9	SURCHARGED
1.017	66	4	78.825	0.487	0.000	0.52		124.0	SURCHARGED
1.018	67	4	78.818	0.511	0.000	0.52		97.2	SURCHARGED
1.019	68	3	78.872	0.587	0.000	0.24		81.2	SURCHARGED
1.020	69	3	78.872	0.902	0.000	0.78		72.9	SURCHARGED

Summary Wizard of 720 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	21		83.354	-0.196	0.000	0.04		1.9	OK
1.001	2	21		83.116	-0.182	0.000	0.08		3.8	OK
1.002	3	21		82.908	-0.182	0.000	0.08		4.7	OK
1.003	4	21		82.504	-0.185	0.000	0.07		4.7	OK
1.004	5	21		82.268	-0.176	0.000	0.11		6.7	OK
2.000	6	21		81.307	-0.191	0.000	0.06		2.4	OK
2.001	7	21		81.097	-0.261	0.000	0.04		3.6	OK
3.000	8	21		81.212	-0.123	0.000	0.42		15.5	OK
2.002	9	21		81.026	-0.178	0.000	0.35		19.1	OK
2.003	10	21		80.987	-0.178	0.000	0.35		19.1	OK
1.005	11	21		80.886	-0.240	0.000	0.28		25.8	OK
1.006	12	21		80.845	-0.241	0.000	0.28		26.2	OK
1.007	13	21		80.783	-0.256	0.000	0.22		30.9	OK
4.000	14	21		81.326	-0.203	0.000	0.02		1.1	OK
4.001	15	21		81.026	-0.202	0.000	0.02		1.1	OK

Summary Wizard of 720 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	21	80.880	-0.188	0.000	0.06		3.4	OK
4.003	17	21	80.596	-0.247	0.000	0.07		5.2	OK
5.000	18	21	81.273	-0.207	0.000	0.02		1.0	OK
5.001	19	21	80.976	-0.190	0.000	0.06		3.1	OK
1.008	20	21	80.462	-0.274	0.000	0.16		41.8	OK
1.009	21	21	79.728	-0.342	0.000	0.13		46.4	OK
6.000	22	21	79.898	-0.205	0.000	0.02		0.7	OK
6.001	23	21	79.799	-0.204	0.000	0.02		0.7	OK
6.002	24	21	79.739	-0.173	0.000	0.12		4.7	OK
6.003	25	21	79.536	-0.245	0.000	0.08		5.1	OK
6.004	26	21	79.457	-0.235	0.000	0.11		6.9	OK
7.000	27	21	79.944	-0.205	0.000	0.02		0.9	OK
7.001	28	21	79.700	-0.192	0.000	0.05		2.5	OK
1.010	29	21	79.220	-0.402	0.000	0.13		56.6	OK
1.011	30	13	79.106	0.005	0.000	0.18		59.2	SURCHARGED
8.000	31	17	79.037	-0.210	0.000	0.07		5.2	OK
8.001	32	13	79.029	-0.067	0.000	0.10		6.3	OK
1.012	33	11	79.023	0.000	0.000	0.13		67.3	OK
9.000	34	21	82.560	-0.198	0.000	0.04		2.7	OK
10.000	35	21	81.782	-0.201	0.000	0.03		1.0	OK
10.001	36	21	81.637	-0.182	0.000	0.08		3.0	OK
9.001	37	21	81.518	-0.171	0.000	0.13		6.3	OK
9.002	38	21	81.268	-0.239	0.000	0.09		9.3	OK
9.003	39	21	80.979	-0.233	0.000	0.11		12.8	OK
9.004	40	21	80.589	-0.226	0.000	0.14		15.2	OK
9.005	41	21	80.283	-0.235	0.000	0.11		18.0	OK
11.000	42a	21	82.533	-0.200	0.000	0.03		1.8	OK
11.001	42	21	82.260	-0.190	0.000	0.06		3.4	OK
11.002	43	21	81.622	-0.177	0.000	0.11		6.0	OK
11.003	44	21	81.375	-0.179	0.000	0.09		7.5	OK
12.000	45	21	80.876	-0.211	0.000	0.01		0.5	OK
11.004	46	21	80.781	-0.241	0.000	0.09		8.6	OK
11.005	47	21	80.561	-0.222	0.000	0.15		10.7	OK
13.000	48	21	81.821	-0.194	0.000	0.05		2.4	OK
13.001	49	21	81.651	-0.192	0.000	0.05		2.7	OK
13.002	50	21	81.425	-0.189	0.000	0.06		3.1	OK
13.003	51	21	81.259	-0.189	0.000	0.06		3.1	OK
13.004	52	21	81.102	-0.186	0.000	0.07		5.0	OK
11.006	53	21	80.391	-0.280	0.000	0.15		15.7	OK
11.007	54	21	80.317	-0.283	0.000	0.14		16.3	OK
11.008	55	21	80.216	-0.283	0.000	0.14		16.3	OK
11.009	56	21	80.111	-0.283	0.000	0.14		16.3	OK
11.010	57	21	80.018	-0.279	0.000	0.15		18.5	OK
11.011	58	21	79.882	-0.277	0.000	0.16		18.5	OK

Summary Wizard of 720 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	21	79.715	-0.345	0.000	0.13		36.5	OK
9.007	60	21	79.262	-0.340	0.000	0.14		37.7	OK
9.008	61	21	78.976	-0.343	0.000	0.12		42.1	OK
1.013	62	14	78.898	0.000	0.000	0.23		107.7	OK
1.014	63	8	78.868	0.043	0.000	0.24		109.2	SURCHARGED
1.015	64	7	78.861	0.094	0.000	0.38		109.2	SURCHARGED
1.016	65	2	78.857	0.109	0.000	0.25		114.4	SURCHARGED
1.017	66	2	78.850	0.512	0.000	0.48		113.4	SURCHARGED
1.018	67	2	78.842	0.535	0.000	0.54		101.1	SURCHARGED
1.019	68	2	78.884	0.599	0.000	0.23		77.8	SURCHARGED
1.020	69	2	78.884	0.914	0.000	0.78		72.9	SURCHARGED

Summary Wizard of 960 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.334
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

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
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	22	83.351	-0.199	0.000	0.03		1.6	OK
1.001	2	22	83.111	-0.188	0.000	0.07		3.1	OK
1.002	3	22	82.903	-0.187	0.000	0.07		3.8	OK
1.003	4	22	82.499	-0.190	0.000	0.06		3.8	OK
1.004	5	22	82.264	-0.180	0.000	0.09		5.4	OK
2.000	6	22	81.304	-0.194	0.000	0.05		1.9	OK
2.001	7	22	81.093	-0.265	0.000	0.03		2.9	OK
3.000	8	22	81.211	-0.124	0.000	0.42		15.4	OK
2.002	9	22	81.024	-0.181	0.000	0.33		18.3	OK
2.003	10	22	80.985	-0.181	0.000	0.33		18.3	OK
1.005	11	22	80.880	-0.246	0.000	0.26		23.7	OK
1.006	12	22	80.839	-0.247	0.000	0.25		24.1	OK
1.007	13	22	80.777	-0.262	0.000	0.20		27.9	OK
4.000	14	22	81.322	-0.207	0.000	0.02		0.9	OK
4.001	15	22	81.021	-0.207	0.000	0.02		0.9	OK

Summary Wizard of 960 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m^3)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
4.002	16	22	80.876	-0.192	0.000	0.05		2.7	OK
4.003	17	22	80.589	-0.254	0.000	0.06		4.2	OK
5.000	18	22	81.270	-0.210	0.000	0.01		0.8	OK
5.001	19	22	80.973	-0.193	0.000	0.05		2.5	OK
1.008	20	22	80.455	-0.281	0.000	0.14		36.7	OK
1.009	21	22	79.721	-0.349	0.000	0.11		40.4	OK
6.000	22	22	79.894	-0.209	0.000	0.02		0.6	OK
6.001	23	22	79.795	-0.208	0.000	0.02		0.6	OK
6.002	24	22	79.735	-0.178	0.000	0.10		3.8	OK
6.003	25	22	79.530	-0.252	0.000	0.06		4.2	OK
6.004	26	22	79.451	-0.241	0.000	0.09		5.6	OK
7.000	27	22	79.940	-0.209	0.000	0.02		0.7	OK
7.001	28	22	79.697	-0.195	0.000	0.04		2.0	OK
1.010	29	22	79.213	-0.409	0.000	0.11		48.7	OK
1.011	30	15	79.105	0.005	0.000	0.16		51.9	SURCHARGED
8.000	31	19	79.035	-0.212	0.000	0.06		4.2	OK
8.001	32	16	79.028	-0.068	0.000	0.08		5.2	OK
1.012	33	9	79.023	0.000	0.000	0.11		59.0	OK
9.000	34	22	82.558	-0.200	0.000	0.03		2.2	OK
10.000	35	22	81.780	-0.203	0.000	0.02		0.8	OK
10.001	36	22	81.632	-0.187	0.000	0.07		2.4	OK
9.001	37	22	81.513	-0.176	0.000	0.11		5.1	OK
9.002	38	22	81.260	-0.246	0.000	0.07		7.5	OK
9.003	39	22	80.973	-0.239	0.000	0.09		10.4	OK
9.004	40	22	80.581	-0.234	0.000	0.11		12.3	OK
9.005	41	22	80.277	-0.241	0.000	0.09		14.6	OK
11.000	42a	22	82.531	-0.202	0.000	0.02		1.4	OK
11.001	42	22	82.257	-0.193	0.000	0.05		2.7	OK
11.002	43	22	81.618	-0.181	0.000	0.08		4.9	OK
11.003	44	22	81.369	-0.185	0.000	0.07		6.0	OK
12.000	45	22	80.874	-0.213	0.000	0.01		0.4	OK
11.004	46	22	80.774	-0.248	0.000	0.07		7.0	OK
11.005	47	22	80.553	-0.230	0.000	0.12		8.6	OK
13.000	48	22	81.818	-0.197	0.000	0.04		1.9	OK
13.001	49	22	81.647	-0.196	0.000	0.04		2.2	OK
13.002	50	22	81.421	-0.193	0.000	0.05		2.5	OK
13.003	51	22	81.255	-0.193	0.000	0.05		2.5	OK
13.004	52	22	81.097	-0.191	0.000	0.06		4.0	OK
11.006	53	22	80.381	-0.290	0.000	0.12		12.7	OK
11.007	54	22	80.308	-0.292	0.000	0.11		13.2	OK
11.008	55	22	80.207	-0.292	0.000	0.11		13.2	OK
11.009	56	22	80.102	-0.292	0.000	0.11		13.2	OK
11.010	57	22	80.009	-0.289	0.000	0.12		14.9	OK
11.011	58	22	79.872	-0.287	0.000	0.13		14.9	OK

Summary Wizard of 960 minute 30 year Winter I+0% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
9.006	59	22	79.705	-0.355	0.000	0.10		29.5	OK
9.007	60	22	79.251	-0.351	0.000	0.11		30.5	OK
9.008	61	22	78.970	-0.349	0.000	0.10		34.0	OK
1.013	62	8	78.907	0.009	0.000	0.20		94.7	SURCHARGED
1.014	63	7	78.899	0.074	0.000	0.21		96.5	SURCHARGED
1.015	64	5	78.892	0.125	0.000	0.33		96.5	SURCHARGED
1.016	65	1	78.888	0.140	0.000	0.22		101.2	SURCHARGED
1.017	66	1	78.880	0.542	0.000	0.42		100.6	SURCHARGED
1.018	67	1	78.872	0.565	0.000	0.51		95.7	SURCHARGED
1.019	68	1	78.920	0.635	0.000	0.23		77.9	SURCHARGED
1.020	69	1	78.920	0.950	0.000	0.80		75.2	SURCHARGED