

Bloor Homes		Page 0
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STORM SEWER DESIGN by the Modified Rational Method

Pipe Sizes STANDARD Manhole Sizes STANDARD

Designed with Level Soffits

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	56.304	1.220	46.2	0.066	5.00	0.0	0.600	o	300	Pipe/Conduit		
1.001	27.593	0.541	51.0	0.196	0.00	0.0	0.600	o	450	Pipe/Conduit		
2.000	39.001	0.570	68.4	0.138	5.00	0.0	0.600	o	300	Pipe/Conduit		
2.001	18.449	0.271	68.0	0.117	0.00	0.0	0.600	o	300	Pipe/Conduit		
1.002	47.406	0.924	51.3	0.024	0.00	0.0	0.600	o	450	Pipe/Conduit		
1.003	44.109	1.160	38.0	0.145	0.00	0.0	0.600	o	450	Pipe/Conduit		
1.004	54.866	0.939	58.5	0.227	0.00	0.0	0.600	o	525	Pipe/Conduit		
3.000	41.004	0.172	238.0	0.158	5.00	0.0	0.600	o	300	Pipe/Conduit		
4.000	28.032	1.540	18.2	0.135	5.00	0.0	0.600	o	300	Pipe/Conduit		

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.40	99.040	0.066	0.0	0.0	0.0	2.32	164.0	9.0
1.001	50.00	5.57	97.670	0.262	0.0	0.0	0.0	2.85	453.6	35.5
2.000	50.00	5.34	98.190	0.138	0.0	0.0	0.0	1.90	134.5	18.7
2.001	50.00	5.50	97.620	0.255	0.0	0.0	0.0	1.91	135.0	34.6
1.002	50.00	5.84	97.129	0.541	0.0	0.0	0.0	2.84	452.3	73.3
1.003	50.00	6.07	96.205	0.686	0.0	0.0	0.0	3.31	525.7	92.8
1.004	50.00	6.38	94.970	0.912	0.0	0.0	0.0	2.93	635.1	123.6
3.000	50.00	5.67	95.432	0.158	0.0	0.0	0.0	1.01	71.7	21.3
4.000	50.00	5.13	96.800	0.135	0.0	0.0	0.0	3.70	261.7	18.3

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Network Design Table for Surface Network 6

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
3.001	74.623	0.905	82.5	0.008	0.00	0.0	0.600	o	525	Pipe/Conduit	
3.002	26.336	0.165	159.6	0.153	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.005	22.134	0.033	667.0	0.130	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.006	44.134	0.090	490.4	0.165	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.007	42.021	0.050	840.4	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.008	12.047	0.100	120.5	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.009	19.876	0.250	79.5	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)
3.001	50.00	6.18	95.035	0.300	0.0	0.0	0.0	2.47	534.3	40.7
3.002	50.00	6.43	94.130	0.454	0.0	0.0	0.0	1.77	383.2	61.5
1.005	50.00	6.82	93.956	1.497	0.0	0.0	0.0	0.94	264.5	202.7
1.006	50.00	7.44	93.840	1.661	0.0	0.0	0.0	1.18	421.1	225.0
1.007	50.00	8.23	93.750	1.661	0.0	0.0	0.0	0.90	320.6	225.0
1.008	50.00	8.32	93.700	1.661	0.0	0.0	0.0	2.22	627.0	225.0
1.009	50.00	8.46	93.600	1.661	0.0	0.0	0.0	2.28	362.9	225.0

Free Flowing Outfall Details for Surface Network 6

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
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1.009	S7025 Headwall	94.550	93.350	0.000	0	0
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Simulation Criteria for Surface Network 6

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

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Synthetic Rainfall Details <table><tr><td>Rainfall Model</td><td>FSR</td><td>Profile Type</td><td>Summer</td></tr><tr><td>Return Period (years)</td><td>2</td><td>Cv (Summer)</td><td>0.750</td></tr><tr><td>Region</td><td>England and Wales</td><td>Cv (Winter)</td><td>0.840</td></tr><tr><td>M5-60 (mm)</td><td>20.000</td><td>Storm Duration (mins)</td><td>30</td></tr><tr><td>Ratio R</td><td>0.400</td><td></td><td></td></tr></table>			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)	20.000	Storm Duration (mins)	30	Ratio R	0.400		
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)	20.000	Storm Duration (mins)	30																			
Ratio R	0.400																					
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Online Controls for Surface Network 6

Crown Vortex Valve® Manhole: S7024 Control Chamber, DS/PN: 1.009, Volume (m³): 15.7

Design Head (m) 1.000 Vortex Valve® Type R1 SW Only Invert Level (m) 93.600
Design Flow (l/s) 8.0 Diameter (mm) 116

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.0	1.200	8.7	3.000	13.8	7.000	21.1
0.200	4.1	1.400	9.4	3.500	14.9	7.500	21.8
0.300	4.4	1.600	10.1	4.000	15.9	8.000	22.5
0.400	5.0	1.800	10.7	4.500	16.9	8.500	23.2
0.500	5.6	2.000	11.3	5.000	17.8	9.000	23.9
0.600	6.2	2.200	11.8	5.500	18.7	9.500	24.5
0.800	7.1	2.400	12.3	6.000	19.5		
1.000	8.0	2.600	12.8	6.500	20.3		

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Storage Structures for Surface Network 6

Tank or Pond Manhole: S7024 Control Chamber, DS/PN: 1.009

Invert Level (m) 93.600

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	1144.8	0.500	1463.7	1.000	1818.9	1.500	2209.1
0.100	1204.8	0.600	1531.9	1.100	1894.1	1.600	2291.4
0.200	1267.4	0.700	1601.5	1.200	1970.8	1.700	2375.1
0.300	1331.4	0.800	1672.6	1.300	2048.8		
0.400	1396.8	0.900	1745.0	1.400	2128.3		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	20 99.086	-0.254	0.000	0.06	
1.001		S8046	20 97.755	-0.365	0.000	0.08	
2.000		S8042	20 98.267	-0.223	0.000	0.15	
2.001		S8043	20 97.726	-0.194	0.000	0.27	
1.002		S8170	20 97.249	-0.330	0.000	0.16	
1.003		S7016	20 96.330	-0.325	0.000	0.17	
1.004		S7019	21 95.122	-0.373	0.000	0.18	
3.000		S8070	20 95.548	-0.185	0.000	0.31	
4.000		S8072	20 96.855	-0.245	0.000	0.08	
3.001		S8071	20 95.134	-0.426	0.000	0.08	
3.002		S8062	22 94.443	-0.212	0.000	0.16	
1.005		S8063	26 94.428	-0.129	0.000	0.96	
1.006		S8073	35 94.205	-0.310	0.000	0.48	
1.007	S7022	Headwall	35 94.108	-0.317	0.000	0.51	
1.008	S7023	Headwall	50 93.988	-0.312	0.000	0.47	
1.009	S7024	Control Chamber	72 93.681	-0.369	0.000	0.01	

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 8.7	OK
1.001		S8046 30.7	OK
2.000		S8042 18.1	OK
2.001		S8043 31.1	OK
1.002		S8170 64.2	OK
1.003		S7016 80.1	OK
1.004		S7019 104.8	OK
3.000		S8070 20.9	OK
4.000		S8072 17.9	OK
3.001		S8071 39.2	OK
3.002		S8062 51.3	OK
1.005		S8063 160.1	OK
1.006		S8073 169.6	OK
1.007	S7022 Headwall	162.6	OK*
1.008	S7023 Headwall	162.3	OK*
1.009	S7024 Control Chamber	1.5	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	21 99.083	-0.257	0.000	0.05	
1.001		S8046	23 97.750	-0.370	0.000	0.07	
2.000		S8042	21 98.262	-0.228	0.000	0.13	
2.001		S8043	23 97.721	-0.199	0.000	0.25	
1.002		S8170	23 97.243	-0.336	0.000	0.15	
1.003		S7016	23 96.324	-0.331	0.000	0.16	
1.004		S7019	23 95.116	-0.379	0.000	0.17	
3.000		S8070	21 95.541	-0.192	0.000	0.28	
4.000		S8072	21 96.851	-0.249	0.000	0.07	
3.001		S8071	21 95.128	-0.432	0.000	0.07	
3.002		S8062	29 94.426	-0.229	0.000	0.15	
1.005		S8063	30 94.412	-0.144	0.000	0.92	
1.006		S8073	36 94.197	-0.318	0.000	0.46	
1.007	S7022	Headwall	36 94.101	-0.324	0.000	0.49	
1.008	S7023	Headwall	51 93.984	-0.316	0.000	0.45	
1.009	S7024	Control Chamber	70 93.704	-0.346	0.000	0.01	

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	28 99.078	-0.262	0.000	0.04	
1.001		S8046	30 97.739	-0.381	0.000	0.06	
2.000		S8042	28 98.253	-0.237	0.000	0.10	
2.001		S8043	29 97.708	-0.212	0.000	0.19	
1.002		S8170	30 97.229	-0.350	0.000	0.11	
1.003		S7016	30 96.309	-0.346	0.000	0.12	
1.004		S7019	30 95.097	-0.398	0.000	0.13	
3.000		S8070	28 95.525	-0.207	0.000	0.20	
4.000		S8072	28 96.843	-0.257	0.000	0.05	
3.001		S8071	28 95.113	-0.447	0.000	0.05	
3.002		S8062	35 94.356	-0.299	0.000	0.12	
1.005		S8063	37 94.345	-0.212	0.000	0.73	
1.006		S8073	40 94.160	-0.355	0.000	0.38	
1.007	S7022 Headwall	45 94.069	-0.356	0.000	0.41		
1.008	S7023 Headwall	53 93.955	-0.345	0.000	0.38		
1.009	S7024 Control Chamber	68 93.729	-0.321	0.000	0.01		

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	38 99.072	-0.268	0.000	0.02	
1.001		S8046	38 97.727	-0.393	0.000	0.04	
2.000		S8042	38 98.239	-0.251	0.000	0.06	
2.001		S8043	38 97.691	-0.229	0.000	0.13	
1.002		S8170	38 97.212	-0.367	0.000	0.08	
1.003		S7016	38 96.293	-0.362	0.000	0.08	
1.004		S7019	38 95.077	-0.418	0.000	0.09	
3.000		S8070	38 95.506	-0.226	0.000	0.14	
4.000		S8072	38 96.835	-0.265	0.000	0.03	
3.001		S8071	38 95.099	-0.461	0.000	0.04	
3.002		S8062	44 94.283	-0.372	0.000	0.08	
1.005		S8063	44 94.266	-0.291	0.000	0.51	
1.006		S8073	44 94.110	-0.405	0.000	0.26	
1.007	S7022 Headwall	55 94.018	-0.407	0.000	0.29		
1.008	S7023 Headwall	55 93.908	-0.392	0.000	0.27		
1.009	S7024 Control Chamber	66 93.755	-0.295	0.000	0.01		

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	44 99.068	-0.272	0.000	0.02	
1.001		S8046	44 97.722	-0.398	0.000	0.03	
2.000		S8042	44 98.234	-0.256	0.000	0.05	
2.001		S8043	44 97.684	-0.236	0.000	0.10	
1.002		S8170	44 97.201	-0.378	0.000	0.06	
1.003		S7016	44 96.281	-0.374	0.000	0.07	
1.004		S7019	44 95.064	-0.431	0.000	0.07	
3.000		S8070	44 95.499	-0.234	0.000	0.11	
4.000		S8072	44 96.833	-0.267	0.000	0.03	
3.001		S8071	44 95.093	-0.467	0.000	0.03	
3.002		S8062	47 94.252	-0.403	0.000	0.07	
1.005		S8063	47 94.225	-0.331	0.000	0.41	
1.006		S8073	51 94.077	-0.438	0.000	0.21	
1.007	S7022 Headwall	57	93.990	-0.435	0.000	0.23	
1.008	S7023 Headwall	56	93.888	-0.412	0.000	0.22	
1.009	S7024 Control Chamber	65	93.769	-0.281	0.000	0.01	

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<u>Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 3.1	OK
1.001		S8046 12.0	OK
2.000		S8042 6.5	OK
2.001		S8043 11.8	OK
1.002		S8170 24.7	OK
1.003		S7016 31.1	OK
1.004		S7019 41.2	OK
3.000		S8070 7.3	OK
4.000		S8072 6.3	OK
3.001		S8071 13.9	OK
3.002		S8062 20.6	OK
1.005		S8063 68.2	OK
1.006		S8073 75.5	OK
1.007	S7022 Headwall	74.2	OK*
1.008	S7023 Headwall	74.7	OK*
1.009	S7024 Control Chamber	3.6	OK
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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)		
1.000		S8045	48	99.063	-0.277	0.000	0.02		
1.001		S8046	48	97.718	-0.402	0.000	0.03		
2.000		S8042	48	98.230	-0.260	0.000	0.04		
2.001		S8043	48	97.678	-0.242	0.000	0.08		
1.002		S8170	48	97.194	-0.385	0.000	0.05		
1.003		S7016	48	96.273	-0.382	0.000	0.06		
1.004		S7019	48	95.054	-0.441	0.000	0.06		
3.000		S8070	48	95.493	-0.239	0.000	0.09		
4.000		S8072	48	96.830	-0.270	0.000	0.02		
3.001		S8071	48	95.089	-0.471	0.000	0.02		
3.002		S8062	50	94.235	-0.420	0.000	0.06		
1.005		S8063	50	94.199	-0.357	0.000	0.34		
1.006		S8073	56	94.057	-0.458	0.000	0.17		
1.007	S7022	Headwall	58	93.969	-0.456	0.000	0.20		
1.008	S7023	Headwall	58	93.870	-0.430	0.000	0.18		
1.009	S7024	Control Chamber	63	93.778	-0.272	0.000	0.01		

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	55 99.057	-0.283	0.000	0.01	
1.001		S8046	55 97.712	-0.408	0.000	0.02	
2.000		S8042	55 98.225	-0.265	0.000	0.03	
2.001		S8043	55 97.669	-0.251	0.000	0.06	
1.002		S8170	55 97.185	-0.394	0.000	0.04	
1.003		S7016	55 96.264	-0.391	0.000	0.04	
1.004		S7019	55 95.042	-0.453	0.000	0.05	
3.000		S8070	55 95.483	-0.249	0.000	0.07	
4.000		S8072	55 96.823	-0.277	0.000	0.02	
3.001		S8071	55 95.078	-0.482	0.000	0.02	
3.002		S8062	56 94.210	-0.445	0.000	0.04	
1.005		S8063	56 94.163	-0.394	0.000	0.26	
1.006		S8073	59 94.028	-0.487	0.000	0.13	
1.007	S7022 Headwall	60	93.942	-0.483	0.000	0.15	
1.008	S7023 Headwall	60	93.847	-0.453	0.000	0.13	
1.009	S7024 Control Chamber	62	93.787	-0.263	0.000	0.01	

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	63 99.052	-0.288	0.000	0.01	
1.001		S8046	63 97.699	-0.421	0.000	0.01	
2.000		S8042	63 98.220	-0.270	0.000	0.02	
2.001		S8043	63 97.660	-0.260	0.000	0.04	
1.002		S8170	63 97.177	-0.402	0.000	0.03	
1.003		S7016	63 96.255	-0.400	0.000	0.03	
1.004		S7019	63 95.031	-0.464	0.000	0.03	
3.000		S8070	63 95.474	-0.259	0.000	0.05	
4.000		S8072	63 96.816	-0.284	0.000	0.01	
3.001		S8071	63 95.065	-0.495	0.000	0.01	
3.002		S8062	63 94.192	-0.463	0.000	0.03	
1.005		S8063	63 94.126	-0.430	0.000	0.18	
1.006		S8073	64 93.995	-0.520	0.000	0.09	
1.007	S7022 Headwall	64	93.911	-0.514	0.000	0.10	
1.008	S7023 Headwall	66	93.823	-0.477	0.000	0.09	
1.009	S7024 Control Chamber	58	93.796	-0.254	0.000	0.01	

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	65 99.050	-0.290	0.000	0.01	
1.001		S8046	65 97.695	-0.425	0.000	0.01	
2.000		S8042	65 98.217	-0.273	0.000	0.02	
2.001		S8043	65 97.658	-0.262	0.000	0.04	
1.002		S8170	65 97.175	-0.404	0.000	0.02	
1.003		S7016	65 96.253	-0.402	0.000	0.03	
1.004		S7019	64 95.028	-0.467	0.000	0.03	
3.000		S8070	65 95.471	-0.261	0.000	0.04	
4.000		S8072	65 96.814	-0.286	0.000	0.01	
3.001		S8071	65 95.061	-0.499	0.000	0.01	
3.002		S8062	65 94.188	-0.467	0.000	0.03	
1.005		S8063	65 94.114	-0.443	0.000	0.16	
1.006		S8073	66 93.986	-0.529	0.000	0.08	
1.007	S7022 Headwall	66 93.901	-0.524	0.000	0.09		
1.008	S7023 Headwall	70 93.815	-0.485	0.000	0.08		
1.009	S7024 Control Chamber	56 93.799	-0.251	0.000	0.01		

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

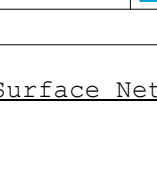
Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	68 99.048	-0.292	0.000	0.01	
1.001		S8046	68 97.690	-0.430	0.000	0.01	
2.000		S8042	68 98.212	-0.278	0.000	0.02	
2.001		S8043	68 97.654	-0.266	0.000	0.03	
1.002		S8170	68 97.169	-0.410	0.000	0.02	
1.003		S7016	68 96.248	-0.407	0.000	0.02	
1.004		S7019	68 95.024	-0.471	0.000	0.02	
3.000		S8070	68 95.468	-0.265	0.000	0.03	
4.000		S8072	68 96.811	-0.289	0.000	0.01	
3.001		S8071	68 95.056	-0.504	0.000	0.01	
3.002		S8062	68 94.182	-0.473	0.000	0.02	
1.005		S8063	68 94.097	-0.459	0.000	0.13	
1.006		S8073	68 93.972	-0.543	0.000	0.07	
1.007	S7022 Headwall	68	93.888	-0.537	0.000	0.07	
1.008	S7023 Headwall	72	93.805	-0.495	0.000	0.07	
1.009	S7024 Control Chamber	55	93.804	-0.246	0.000	0.01	

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)			Time (mins)
1.000		S8045	71 99.046	-0.294	0.000	0.00		
1.001		S8046	71 97.685	-0.435	0.000	0.01		
2.000		S8042	71 98.206	-0.284	0.000	0.01		
2.001		S8043	71 97.651	-0.269	0.000	0.02		
1.002		S8170	70 97.158	-0.421	0.000	0.01		
1.003		S7016	71 96.237	-0.418	0.000	0.02		
1.004		S7019	71 95.011	-0.484	0.000	0.02		
3.000		S8070	71 95.464	-0.268	0.000	0.02		
4.000		S8072	71 96.808	-0.292	0.000	0.01		
3.001		S8071	70 95.051	-0.509	0.000	0.01		
3.002		S8062	71 94.168	-0.487	0.000	0.02		
1.005		S8063	71 94.080	-0.477	0.000	0.09		
1.006		S8073	71 93.951	-0.564	0.000	0.05		
1.007	S7022	Headwall	71 93.867	-0.558	0.000	0.05		
1.008	S7023	Headwall	71 93.807	-0.493	0.000	0.05		
1.009	S7024	Control Chamber	54 93.806	-0.244	0.000	0.01		

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.400
Region England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000 Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)			Time (mins)
1.000		S8045	7 99.114	-0.226	0.000	0.14		
1.001		S8046	7 97.819	-0.301	0.000	0.24		
2.000		S8042	7 98.315	-0.175	0.000	0.36		
2.001		S8043	7 97.816	-0.104	0.000	0.75		
1.002		S8170	7 97.344	-0.235	0.000	0.46		
1.003		S7016	7 96.433	-0.222	0.000	0.50		
1.004		S7019	7 95.253	-0.242	0.000	0.55		
3.000		S8070	7 95.632	-0.101	0.000	0.77		
4.000		S8072	7 96.887	-0.213	0.000	0.19		
3.001		S8071	7 95.194	-0.366	0.000	0.20		
3.002		S8062	8 94.875	0.220	0.000	0.44		
1.005		S8063	8 94.837	0.280	0.000	2.72		
1.006		S8073	8 94.636	0.121	0.000	1.34		
1.007	S7022 Headwall	5 94.425	0.000	0.000	1.42			
1.008	S7023 Headwall	3 94.375	0.075	0.000	1.29			
1.009	S7024 Control Chamber	59 93.792	-0.258	0.000	0.01			

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 21.3	OK	
1.001		S8046 92.8	OK	
2.000		S8042 44.5	OK	
2.001		S8043 86.8	OK	
1.002		S8170 186.1	OK	
1.003		S7016 237.0	OK	
1.004		S7019 312.2	OK	
3.000		S8070 51.3	OK	
4.000		S8072 44.0	OK	
3.001		S8071 96.6	OK	
3.002		S8062 136.1	SURCHARGED	
1.005		S8063 451.2	SURCHARGED	
1.006		S8073 478.8	SURCHARGED	
1.007	S7022 Headwall	456.6	SURCHARGED*	
1.008	S7023 Headwall	446.2	SURCHARGED*	
1.009	S7024 Control Chamber	4.0	OK	
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Innovyze		Network 2020.1.3

Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain
			Level (m)	Depth (m)	Volume (m³)			Time (mins)
1.000		S8045	9 99.110	-0.230	0.000	0.12		
1.001		S8046	9 97.810	-0.310	0.000	0.21		
2.000		S8042	9 98.307	-0.183	0.000	0.32		
2.001		S8043	9 97.800	-0.120	0.000	0.65		
1.002		S8170	9 97.328	-0.251	0.000	0.40		
1.003		S7016	9 96.415	-0.240	0.000	0.44		
1.004		S7019	9 95.229	-0.266	0.000	0.48		
3.000		S8070	9 95.617	-0.116	0.000	0.69		
4.000		S8072	9 96.882	-0.218	0.000	0.17		
3.001		S8071	9 95.184	-0.376	0.000	0.18		
3.002		S8062	9 94.779	0.124	0.000	0.40		
1.005		S8063	9 94.747	0.191	0.000	2.47		
1.006		S8073	9 94.580	0.065	0.000	1.23		
1.007		S7022 Headwall	4 94.425	0.000	0.000	1.32		
1.008		S7023 Headwall	15 94.355	0.055	0.000	1.23		
1.009	S7024 Control Chamber	46 93.845	-0.205	0.000	0.02			

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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																	
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Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																															
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																															
Hot Start Level (mm) 0		Inlet Coefficient 0.800																																																																																																																																															
Manhole Headloss Coeff (Global) 0.500		Flow per Person per Day (l/per/day) 0.000																																																																																																																																															
Foul Sewage per hectare (l/s) 0.000																																																																																																																																																	
Number of Input Hydrographs 0 Number of Storage Structures 1																																																																																																																																																	
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Rainfall Model		FSR	Ratio R 0.400																																																																																																																																														
Region England and Wales		Cv (Summer)	0.750																																																																																																																																														
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Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																															
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Climate Change (%)		0, 0, 40																																																																																																																																															
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th colspan="3">Water Surcharged Flooded</th><th colspan="2">Half Drain</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th><th>Time (mins)</th></tr><tr><td>1.000</td><td></td><td>S8045</td><td>12</td><td>99.101</td><td>-0.239</td><td>0.000</td><td>0.09</td></tr><tr><td>1.001</td><td></td><td>S8046</td><td>12</td><td>97.786</td><td>-0.334</td><td>0.000</td><td>0.15</td></tr><tr><td>2.000</td><td></td><td>S8042</td><td>12</td><td>98.289</td><td>-0.201</td><td>0.000</td><td>0.23</td></tr><tr><td>2.001</td><td></td><td>S8043</td><td>12</td><td>97.767</td><td>-0.153</td><td>0.000</td><td>0.47</td></tr><tr><td>1.002</td><td></td><td>S8170</td><td>12</td><td>97.295</td><td>-0.284</td><td>0.000</td><td>0.28</td></tr><tr><td>1.003</td><td></td><td>S7016</td><td>12</td><td>96.381</td><td>-0.274</td><td>0.000</td><td>0.31</td></tr><tr><td>1.004</td><td></td><td>S7019</td><td>12</td><td>95.186</td><td>-0.309</td><td>0.000</td><td>0.34</td></tr><tr><td>3.000</td><td></td><td>S8070</td><td>12</td><td>95.584</td><td>-0.149</td><td>0.000</td><td>0.49</td></tr><tr><td>4.000</td><td></td><td>S8072</td><td>12</td><td>96.870</td><td>-0.230</td><td>0.000</td><td>0.12</td></tr><tr><td>3.001</td><td></td><td>S8071</td><td>12</td><td>95.161</td><td>-0.399</td><td>0.000</td><td>0.13</td></tr><tr><td>3.002</td><td></td><td>S8062</td><td>12</td><td>94.608</td><td>-0.047</td><td>0.000</td><td>0.31</td></tr><tr><td>1.005</td><td></td><td>S8063</td><td>12</td><td>94.580</td><td>0.023</td><td>0.000</td><td>1.91</td></tr><tr><td>1.006</td><td></td><td>S8073</td><td>12</td><td>94.490</td><td>-0.025</td><td>0.000</td><td>0.95</td></tr><tr><td>1.007</td><td>S7022 Headwall</td><td>18</td><td>94.369</td><td>-0.056</td><td>0.000</td><td>1.00</td><td></td></tr><tr><td>1.008</td><td>S7023 Headwall</td><td>29</td><td>94.152</td><td>-0.148</td><td>0.000</td><td>0.92</td><td></td></tr><tr><td>1.009</td><td>S7024 Control Chamber</td><td>44</td><td>93.897</td><td>-0.153</td><td>0.000</td><td>0.02</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain		Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	1.000		S8045	12	99.101	-0.239	0.000	0.09	1.001		S8046	12	97.786	-0.334	0.000	0.15	2.000		S8042	12	98.289	-0.201	0.000	0.23	2.001		S8043	12	97.767	-0.153	0.000	0.47	1.002		S8170	12	97.295	-0.284	0.000	0.28	1.003		S7016	12	96.381	-0.274	0.000	0.31	1.004		S7019	12	95.186	-0.309	0.000	0.34	3.000		S8070	12	95.584	-0.149	0.000	0.49	4.000		S8072	12	96.870	-0.230	0.000	0.12	3.001		S8071	12	95.161	-0.399	0.000	0.13	3.002		S8062	12	94.608	-0.047	0.000	0.31	1.005		S8063	12	94.580	0.023	0.000	1.91	1.006		S8073	12	94.490	-0.025	0.000	0.95	1.007	S7022 Headwall	18	94.369	-0.056	0.000	1.00		1.008	S7023 Headwall	29	94.152	-0.148	0.000	0.92		1.009	S7024 Control Chamber	44	93.897	-0.153	0.000	0.02	
PN	US/MH Name	Storm Rank	Water Surcharged Flooded					Half Drain																																																																																																																																									
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<u>Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 13.7	OK	
1.001		S8046 57.4	OK	
2.000		S8042 28.9	OK	
2.001		S8043 54.4	OK	
1.002		S8170 115.4	OK	
1.003		S7016 146.0	OK	
1.004		S7019 192.9	OK	
3.000		S8070 32.8	OK	
4.000		S8072 28.6	OK	
3.001		S8071 62.8	OK	
3.002		S8062 95.3	OK	
1.005		S8063 317.2	SURCHARGED	
1.006		S8073 339.7	OK	
1.007	S7022 Headwall	320.1	OK*	
1.008	S7023 Headwall	318.4	OK*	
1.009	S7024 Control Chamber	4.4	OK	
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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	19 99.087	-0.253	0.000	0.06	
1.001		S8046	18 97.762	-0.358	0.000	0.09	
2.000		S8042	19 98.267	-0.223	0.000	0.15	
2.001		S8043	18 97.732	-0.188	0.000	0.30	
1.002		S8170	18 97.258	-0.321	0.000	0.18	
1.003		S7016	18 96.341	-0.314	0.000	0.20	
1.004		S7019	18 95.136	-0.359	0.000	0.22	
3.000		S8070	19 95.549	-0.183	0.000	0.32	
4.000		S8072	19 96.855	-0.245	0.000	0.08	
3.001		S8071	19 95.136	-0.424	0.000	0.08	
3.002		S8062	18 94.575	-0.080	0.000	0.20	
1.005		S8063	19 94.556	0.000	0.000	1.22	
1.006		S8073	31 94.280	-0.235	0.000	0.61	
1.007	S7022 Headwall	31 94.177	-0.248	0.000	0.66		
1.008	S7023 Headwall	37 94.046	-0.254	0.000	0.62		
1.009	S7024 Control Chamber	41 93.947	-0.103	0.000	0.02		

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	25 99.081	-0.259	0.000	0.05	
1.001		S8046	24 97.750	-0.370	0.000	0.07	
2.000		S8042	25 98.259	-0.231	0.000	0.12	
2.001		S8043	24 97.719	-0.201	0.000	0.23	
1.002		S8170	24 97.242	-0.337	0.000	0.14	
1.003		S7016	24 96.323	-0.332	0.000	0.15	
1.004		S7019	24 95.116	-0.379	0.000	0.17	
3.000		S8070	25 95.535	-0.198	0.000	0.25	
4.000		S8072	25 96.848	-0.252	0.000	0.06	
3.001		S8071	25 95.122	-0.438	0.000	0.06	
3.002		S8062	24 94.436	-0.219	0.000	0.15	
1.005		S8063	28 94.422	-0.134	0.000	0.94	
1.006		S8073	34 94.215	-0.300	0.000	0.49	
1.007	S7022	Headwall	34 94.119	-0.306	0.000	0.54	
1.008	S7023	Headwall	48 94.000	-0.300	0.000	0.49	
1.009	S7024	Control Chamber	39 93.973	-0.077	0.000	0.02	

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<u>Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 6</u>		
PN	US/MH Name	Pipe Flow (l/s) Status
1.000		S8045 7.1 OK
1.001		S8046 28.1 OK
2.000		S8042 14.8 OK
2.001		S8043 27.3 OK
1.002		S8170 57.7 OK
1.003		S7016 73.0 OK
1.004		S7019 97.1 OK
3.000		S8070 16.8 OK
4.000		S8072 14.5 OK
3.001		S8071 31.9 OK
3.002		S8062 47.3 OK
1.005		S8063 156.6 OK
1.006		S8073 173.8 OK
1.007	S7022 Headwall	171.8 OK*
1.008	S7023 Headwall	170.6 OK*
1.009	S7024 Control Chamber	4.9 OK
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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	29 99.077	-0.263	0.000	0.04	
1.001		S8046	28 97.740	-0.380	0.000	0.06	
2.000		S8042	29 98.252	-0.238	0.000	0.10	
2.001		S8043	28 97.708	-0.212	0.000	0.19	
1.002		S8170	28 97.230	-0.349	0.000	0.11	
1.003		S7016	28 96.311	-0.344	0.000	0.13	
1.004		S7019	28 95.099	-0.396	0.000	0.14	
3.000		S8070	29 95.524	-0.208	0.000	0.20	
4.000		S8072	29 96.843	-0.257	0.000	0.05	
3.001		S8071	29 95.112	-0.448	0.000	0.05	
3.002		S8062	34 94.368	-0.287	0.000	0.12	
1.005		S8063	34 94.357	-0.200	0.000	0.77	
1.006		S8073	38 94.177	-0.338	0.000	0.40	
1.007	S7022	Headwall	38 94.082	-0.343	0.000	0.44	
1.008	S7023	Headwall	49 93.991	-0.309	0.000	0.41	
1.009	S7024	Control Chamber	37 93.990	-0.060	0.000	0.02	

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Innovyze		Network 2020.1.3	
<u>Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 5.7	OK
1.001		S8046 22.7	OK
2.000		S8042 11.9	OK
2.001		S8043 22.1	OK
1.002		S8170 46.8	OK
1.003		S7016 59.3	OK
1.004		S7019 78.9	OK
3.000		S8070 13.6	OK
4.000		S8072 11.7	OK
3.001		S8071 25.8	OK
3.002		S8062 38.9	OK
1.005		S8063 128.4	OK
1.006		S8073 141.5	OK
1.007	S7022 Headwall	140.8	OK*
1.008	S7023 Headwall	141.4	OK*
1.009	S7024 Control Chamber	5.0	OK
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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	37 99.073	-0.267	0.000	0.03	
1.001		S8046	37 97.730	-0.390	0.000	0.04	
2.000		S8042	37 98.242	-0.248	0.000	0.07	
2.001		S8043	37 97.694	-0.226	0.000	0.14	
1.002		S8170	37 97.216	-0.363	0.000	0.08	
1.003		S7016	37 96.296	-0.359	0.000	0.09	
1.004		S7019	37 95.081	-0.414	0.000	0.10	
3.000		S8070	37 95.509	-0.223	0.000	0.15	
4.000		S8072	37 96.837	-0.263	0.000	0.04	
3.001		S8071	37 95.101	-0.459	0.000	0.04	
3.002		S8062	43 94.297	-0.358	0.000	0.09	
1.005		S8063	43 94.281	-0.275	0.000	0.57	
1.006		S8073	43 94.125	-0.390	0.000	0.30	
1.007	S7022 Headwall	49 94.034	-0.391	0.000	0.33		
1.008	S7023 Headwall	45 94.011	-0.289	0.000	0.30		
1.009	S7024 Control Chamber	36 94.011	-0.039	0.000	0.02		

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PN	US/MH Name	Pipe Flow (l/s) Status
1.000		S8045 4.2 OK
1.001		S8046 16.6 OK
2.000		S8042 8.7 OK
2.001		S8043 16.2 OK
1.002		S8170 34.3 OK
1.003		S7016 43.4 OK
1.004		S7019 57.8 OK
3.000		S8070 10.0 OK
4.000		S8072 8.5 OK
3.001		S8071 19.0 OK
3.002		S8062 28.7 OK
1.005		S8063 94.8 OK
1.006		S8073 105.1 OK
1.007	S7022 Headwall	104.8 OK*
1.008	S7023 Headwall	104.5 OK*
1.009	S7024 Control Chamber	5.1 OK
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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	41 99.070	-0.270	0.000	0.02	
1.001		S8046	41 97.724	-0.396	0.000	0.03	
2.000		S8042	41 98.236	-0.254	0.000	0.06	
2.001		S8043	41 97.686	-0.234	0.000	0.11	
1.002		S8170	41 97.205	-0.374	0.000	0.07	
1.003		S7016	41 96.285	-0.370	0.000	0.07	
1.004		S7019	41 95.069	-0.426	0.000	0.08	
3.000		S8070	41 95.501	-0.231	0.000	0.12	
4.000		S8072	41 96.833	-0.267	0.000	0.03	
3.001		S8071	41 95.095	-0.465	0.000	0.03	
3.002		S8062	45 94.263	-0.392	0.000	0.07	
1.005		S8063	45 94.240	-0.316	0.000	0.46	
1.006		S8073	45 94.093	-0.422	0.000	0.24	
1.007	S7022 Headwall	54 94.022	-0.403	0.000	0.26		
1.008	S7023 Headwall	43 94.021	-0.279	0.000	0.24		
1.009	S7024 Control Chamber	34 94.020	-0.030	0.000	0.02		

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	46 99.066	-0.274	0.000	0.02	
1.001		S8046	46 97.720	-0.400	0.000	0.03	
2.000		S8042	46 98.232	-0.258	0.000	0.05	
2.001		S8043	46 97.681	-0.239	0.000	0.09	
1.002		S8170	46 97.198	-0.381	0.000	0.06	
1.003		S7016	46 96.277	-0.378	0.000	0.06	
1.004		S7019	46 95.059	-0.436	0.000	0.07	
3.000		S8070	46 95.496	-0.237	0.000	0.10	
4.000		S8072	46 96.831	-0.269	0.000	0.02	
3.001		S8071	46 95.091	-0.469	0.000	0.03	
3.002		S8062	49 94.243	-0.412	0.000	0.06	
1.005		S8063	49 94.213	-0.343	0.000	0.38	
1.006		S8073	54 94.072	-0.443	0.000	0.20	
1.007	S7022 Headwall	52 94.026	-0.399	0.000	0.22		
1.008	S7023 Headwall	41 94.025	-0.275	0.000	0.20		
1.009	S7024 Control Chamber	32 94.024	-0.026	0.000	0.02		

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	
Return Period(s) (years) 1, 30, 100	
Climate Change (%) 0, 0, 40	

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	51 99.062	-0.278	0.000	0.02	
1.001		S8046	51 97.718	-0.402	0.000	0.03	
2.000		S8042	51 98.229	-0.261	0.000	0.04	
2.001		S8043	51 97.677	-0.243	0.000	0.08	
1.002		S8170	51 97.193	-0.386	0.000	0.05	
1.003		S7016	51 96.272	-0.383	0.000	0.05	
1.004		S7019	51 95.052	-0.443	0.000	0.06	
3.000		S8070	51 95.492	-0.241	0.000	0.09	
4.000		S8072	51 96.830	-0.270	0.000	0.02	
3.001		S8071	51 95.089	-0.471	0.000	0.02	
3.002		S8062	52 94.231	-0.424	0.000	0.05	
1.005		S8063	52 94.194	-0.362	0.000	0.33	
1.006		S8073	55 94.058	-0.457	0.000	0.17	
1.007	S7022 Headwall	51 94.028	-0.397	0.000	0.19		
1.008	S7023 Headwall	40 94.027	-0.273	0.000	0.17		
1.009	S7024 Control Chamber	30 94.026	-0.024	0.000	0.02		

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Innovyze	Network 2020.1.3		
<u>Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.4	OK
1.001		S8046 9.7	OK
2.000		S8042 5.1	OK
2.001		S8043 9.4	OK
1.002		S8170 20.0	OK
1.003		S7016 25.3	OK
1.004		S7019 33.7	OK
3.000		S8070 5.8	OK
4.000		S8072 5.0	OK
3.001		S8071 11.1	OK
3.002		S8062 16.8	OK
1.005		S8063 55.3	OK
1.006		S8073 61.4	OK
1.007	S7022 Headwall	61.1	OK*
1.008	S7023 Headwall	60.6	OK*
1.009	S7024 Control Chamber	5.2	OK
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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.400
Region England and Wales	Cv (Summer) 0.750	
M5-60 (mm)	20.000	Cv (Winter) 0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
Return Period(s) (years)	1, 30, 100	
Climate Change (%)	0, 0, 40	

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	54 99.058	-0.282	0.000	0.01	
1.001		S8046	54 97.713	-0.407	0.000	0.02	
2.000		S8042	54 98.225	-0.265	0.000	0.03	
2.001		S8043	54 97.669	-0.251	0.000	0.06	
1.002		S8170	54 97.186	-0.393	0.000	0.04	
1.003		S7016	54 96.265	-0.390	0.000	0.04	
1.004		S7019	54 95.043	-0.452	0.000	0.05	
3.000		S8070	54 95.484	-0.248	0.000	0.07	
4.000		S8072	54 96.824	-0.276	0.000	0.02	
3.001		S8071	54 95.080	-0.480	0.000	0.02	
3.002		S8062	55 94.212	-0.443	0.000	0.04	
1.005		S8063	55 94.166	-0.391	0.000	0.27	
1.006		S8073	58 94.038	-0.477	0.000	0.14	
1.007	S7022 Headwall	50	94.028	-0.397	0.000	0.15	
1.008	S7023 Headwall	39	94.027	-0.273	0.000	0.14	
1.009	S7024 Control Chamber	29	94.027	-0.023	0.000	0.02	

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	61 99.053	-0.287	0.000	0.01	
1.001		S8046	61 97.701	-0.419	0.000	0.01	
2.000		S8042	61 98.221	-0.269	0.000	0.02	
2.001		S8043	61 97.662	-0.258	0.000	0.05	
1.002		S8170	61 97.179	-0.400	0.000	0.03	
1.003		S7016	61 96.257	-0.398	0.000	0.03	
1.004		S7019	61 95.033	-0.462	0.000	0.03	
3.000		S8070	61 95.475	-0.257	0.000	0.05	
4.000		S8072	61 96.817	-0.283	0.000	0.01	
3.001		S8071	61 95.067	-0.493	0.000	0.01	
3.002		S8062	61 94.195	-0.460	0.000	0.03	
1.005		S8063	61 94.134	-0.422	0.000	0.19	
1.006		S8073	61 94.026	-0.489	0.000	0.10	
1.007	S7022 Headwall	53	94.025	-0.400	0.000	0.11	
1.008	S7023 Headwall	42	94.025	-0.275	0.000	0.10	
1.009	S7024 Control Chamber	33	94.024	-0.026	0.000	0.02	

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Foul Sewage per hectare (l/s) 0.000																																																																																																																																											
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WARNING: The analysis maybe unstable. Please see the method of analysis help for more details																																																																																																																																											
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th><th>Half Drain Time (mins)</th></tr><tr><td>1.000</td><td>S8045</td><td>2</td><td>99.142</td><td>-0.198</td><td>0.000</td><td>0.25</td><td></td></tr><tr><td>1.001</td><td>S8046</td><td>2</td><td>97.878</td><td>-0.242</td><td>0.000</td><td>0.44</td><td></td></tr><tr><td>2.000</td><td>S8042</td><td>2</td><td>98.377</td><td>-0.113</td><td>0.000</td><td>0.65</td><td></td></tr><tr><td>2.001</td><td>S8043</td><td>2</td><td>98.132</td><td>0.212</td><td>0.000</td><td>1.32</td><td></td></tr><tr><td>1.002</td><td>S8170</td><td>2</td><td>97.579</td><td>0.000</td><td>0.000</td><td>0.80</td><td></td></tr><tr><td>1.003</td><td>S7016</td><td>2</td><td>97.148</td><td>0.493</td><td>0.000</td><td>0.78</td><td></td></tr><tr><td>1.004</td><td>S7019</td><td>2</td><td>96.555</td><td>1.060</td><td>0.000</td><td>0.81</td><td></td></tr><tr><td>3.000</td><td>S8070</td><td>2</td><td>96.395</td><td>0.663</td><td>0.000</td><td>1.35</td><td></td></tr><tr><td>4.000</td><td>S8072</td><td>2</td><td>96.921</td><td>-0.179</td><td>0.000</td><td>0.34</td><td></td></tr><tr><td>3.001</td><td>S8071</td><td>2</td><td>96.143</td><td>0.583</td><td>0.000</td><td>0.30</td><td></td></tr><tr><td>3.002</td><td>S8062</td><td>2</td><td>96.059</td><td>1.404</td><td>0.000</td><td>0.66</td><td></td></tr><tr><td>1.005</td><td>S8063</td><td>2</td><td>95.977</td><td>1.420</td><td>0.009</td><td>4.23</td><td></td></tr><tr><td>1.006</td><td>S8073</td><td>2</td><td>95.469</td><td>0.954</td><td>0.000</td><td>2.14</td><td></td></tr><tr><td>1.007</td><td>S7022 Headwall</td><td>13</td><td>94.425</td><td>0.000</td><td>0.000</td><td>2.32</td><td></td></tr><tr><td>1.008</td><td>S7023 Headwall</td><td>14</td><td>94.375</td><td>0.075</td><td>0.000</td><td>2.14</td><td></td></tr><tr><td>1.009</td><td>S7024 Control Chamber</td><td>42</td><td>93.935</td><td>-0.115</td><td>0.000</td><td>0.02</td><td></td></tr></table>				PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	1.000	S8045	2	99.142	-0.198	0.000	0.25		1.001	S8046	2	97.878	-0.242	0.000	0.44		2.000	S8042	2	98.377	-0.113	0.000	0.65		2.001	S8043	2	98.132	0.212	0.000	1.32		1.002	S8170	2	97.579	0.000	0.000	0.80		1.003	S7016	2	97.148	0.493	0.000	0.78		1.004	S7019	2	96.555	1.060	0.000	0.81		3.000	S8070	2	96.395	0.663	0.000	1.35		4.000	S8072	2	96.921	-0.179	0.000	0.34		3.001	S8071	2	96.143	0.583	0.000	0.30		3.002	S8062	2	96.059	1.404	0.000	0.66		1.005	S8063	2	95.977	1.420	0.009	4.23		1.006	S8073	2	95.469	0.954	0.000	2.14		1.007	S7022 Headwall	13	94.425	0.000	0.000	2.32		1.008	S7023 Headwall	14	94.375	0.075	0.000	2.14		1.009	S7024 Control Chamber	42	93.935	-0.115	0.000	0.02	
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)																																																																																																																																				
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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
Return Period(s) (years)	1, 30, 100	
Climate Change (%)	0, 0, 40	

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	5 99.122	-0.218	0.000	0.16	
1.001		S8046	5 97.832	-0.288	0.000	0.27	
2.000		S8042	5 98.329	-0.161	0.000	0.43	
2.001		S8043	5 97.840	-0.080	0.000	0.86	
1.002		S8170	5 97.365	-0.214	0.000	0.52	
1.003		S7016	5 96.456	-0.199	0.000	0.57	
1.004		S7019	5 95.564	0.069	0.000	0.60	
3.000		S8070	5 95.661	-0.072	0.000	0.90	
4.000		S8072	5 96.896	-0.204	0.000	0.22	
3.001		S8071	5 95.344	-0.216	0.000	0.23	
3.002		S8062	5 95.297	0.642	0.000	0.51	
1.005		S8063	5 95.251	0.694	0.000	3.18	
1.006		S8073	5 94.967	0.452	0.000	1.62	
1.007	S7022 Headwall	2	94.425	0.000	0.000	1.81	
1.008	S7023 Headwall	2	94.375	0.075	0.000	1.67	
1.009	S7024 Control Chamber	20	94.114	0.064	0.000	0.02	

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 Cv (Winter)	0.840	

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
Return Period(s) (years)	1, 30, 100	
Climate Change (%)	0, 0, 40	

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	13	99.098	-0.242	0.000	0.08
1.001		S8046	13	97.779	-0.341	0.000	0.13
2.000		S8042	13	98.285	-0.205	0.000	0.22
2.001		S8043	13	97.758	-0.162	0.000	0.43
1.002		S8170	13	97.285	-0.294	0.000	0.26
1.003		S7016	13	96.369	-0.286	0.000	0.28
1.004		S7019	13	95.172	-0.323	0.000	0.31
3.000		S8070	13	95.576	-0.156	0.000	0.46
4.000		S8072	13	96.867	-0.233	0.000	0.11
3.001		S8071	13	95.156	-0.404	0.000	0.12
3.002		S8062	14	94.589	-0.066	0.000	0.28
1.005		S8063	14	94.563	0.007	0.000	1.75
1.006		S8073	18	94.412	-0.103	0.000	0.89
1.007	S7022	Headwall	28	94.290	-0.135	0.000	1.00
1.008	S7023	Headwall	28	94.240	-0.060	0.000	0.91
1.009	S7024	Control Chamber	17	94.240	0.190	0.000	0.02

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<u>Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 13.0	OK	
1.001		S8046 51.6	OK	
2.000		S8042 27.2	OK	
2.001		S8043 50.1	OK	
1.002		S8170 105.9	OK	
1.003		S7016 133.9	OK	
1.004		S7019 178.0	OK	
3.000		S8070 30.8	OK	
4.000		S8072 26.6	OK	
3.001		S8071 58.4	OK	
3.002		S8062 87.8	OK	
1.005		S8063 289.8	SURCHARGED	
1.006		S8073 318.4	OK	
1.007	S7022 Headwall	319.4	OK*	
1.008	S7023 Headwall	317.4	OK*	
1.009	S7024 Control Chamber	6.4	SURCHARGED	
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<u>Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 10.4	OK
1.001		S8046 41.4	OK
2.000		S8042 21.8	OK
2.001		S8043 40.3	OK
1.002		S8170 85.4	OK
1.003		S7016 108.3	OK
1.004		S7019 144.1	OK
3.000		S8070 24.8	OK
4.000		S8072 21.3	OK
3.001		S8071 47.2	OK
3.002		S8062 71.4	OK
1.005		S8063 235.9	OK
1.006		S8073 260.9	OK
1.007	S7022 Headwall	257.3	OK*
1.008	S7023 Headwall	256.7	OK*
1.009	S7024 Control Chamber	6.5	SURCHARGED
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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	23 99.082	-0.258	0.000	0.05	
1.001		S8046	22 97.753	-0.367	0.000	0.08	
2.000		S8042	23 98.261	-0.229	0.000	0.13	
2.001		S8043	22 97.722	-0.198	0.000	0.25	
1.002		S8170	22 97.245	-0.334	0.000	0.15	
1.003		S7016	22 96.328	-0.327	0.000	0.17	
1.004		S7019	22 95.121	-0.374	0.000	0.18	
3.000		S8070	23 95.538	-0.194	0.000	0.27	
4.000		S8072	23 96.850	-0.250	0.000	0.07	
3.001		S8071	23 95.126	-0.434	0.000	0.07	
3.002		S8062	20 94.542	-0.113	0.000	0.16	
1.005		S8063	20 94.527	-0.029	0.000	1.00	
1.006		S8073	30 94.306	-0.209	0.000	0.52	
1.007	S7022	Headwall	27 94.303	-0.122	0.000	0.57	
1.008	S7023	Headwall	25 94.301	0.001	0.000	0.52	
1.009	S7024	Control Chamber	14 94.301	0.251	0.000	0.02	

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	27 99.078	-0.262	0.000	0.04	
1.001		S8046	27 97.742	-0.378	0.000	0.06	
2.000		S8042	27 98.254	-0.236	0.000	0.10	
2.001		S8043	27 97.711	-0.209	0.000	0.20	
1.002		S8170	27 97.233	-0.346	0.000	0.12	
1.003		S7016	27 96.314	-0.341	0.000	0.13	
1.004		S7019	27 95.103	-0.392	0.000	0.15	
3.000		S8070	27 95.526	-0.206	0.000	0.22	
4.000		S8072	27 96.844	-0.256	0.000	0.05	
3.001		S8071	27 95.114	-0.446	0.000	0.06	
3.002		S8062	33 94.385	-0.270	0.000	0.13	
1.005		S8063	33 94.373	-0.183	0.000	0.83	
1.006		S8073	28 94.325	-0.190	0.000	0.43	
1.007	S7022 Headwall	25 94.322	-0.103	0.000	0.47		
1.008	S7023 Headwall	23 94.321	0.021	0.000	0.43		
1.009	S7024 Control Chamber	12 94.321	0.271	0.000	0.02		

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<u>Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 6.1	OK
1.001		S8046 24.0	OK
2.000		S8042 12.7	OK
2.001		S8043 23.4	OK
1.002		S8170 49.6	OK
1.003		S7016 62.8	OK
1.004		S7019 83.6	OK
3.000		S8070 14.4	OK
4.000		S8072 12.4	OK
3.001		S8071 27.5	OK
3.002		S8062 41.6	OK
1.005		S8063 137.1	OK
1.006		S8073 151.8	OK
1.007	S7022 Headwall	150.4	OK*
1.008	S7023 Headwall	148.0	SURCHARGED*
1.009	S7024 Control Chamber	6.8	SURCHARGED
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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	32 99.075	-0.265	0.000	0.03	
1.001		S8046	32 97.736	-0.384	0.000	0.05	
2.000		S8042	32 98.248	-0.242	0.000	0.09	
2.001		S8043	32 97.702	-0.218	0.000	0.17	
1.002		S8170	32 97.224	-0.355	0.000	0.10	
1.003		S7016	32 96.305	-0.350	0.000	0.11	
1.004		S7019	32 95.091	-0.404	0.000	0.12	
3.000		S8070	32 95.518	-0.214	0.000	0.18	
4.000		S8072	32 96.840	-0.260	0.000	0.04	
3.001		S8071	32 95.107	-0.453	0.000	0.05	
3.002		S8062	40 94.338	-0.317	0.000	0.11	
1.005		S8063	39 94.338	-0.219	0.000	0.69	
1.006		S8073	26 94.336	-0.179	0.000	0.36	
1.007	S7022 Headwall	24 94.334	-0.091	0.000	0.39		
1.008	S7023 Headwall	22 94.333	0.033	0.000	0.36		
1.009	S7024 Control Chamber	11 94.332	0.282	0.000	0.02		

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Innovyze	Network 2020.1.3		
<u>Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 5.1	OK
1.001		S8046 20.1	OK
2.000		S8042 10.6	OK
2.001		S8043 19.6	OK
1.002		S8170 41.5	OK
1.003		S7016 52.6	OK
1.004		S7019 70.0	OK
3.000		S8070 12.1	OK
4.000		S8072 10.4	OK
3.001		S8071 23.1	OK
3.002		S8062 34.8	OK
1.005		S8063 114.9	OK
1.006		S8073 127.2	OK
1.007	S7022 Headwall	125.8	OK*
1.008	S7023 Headwall	123.6	SURCHARGED*
1.009	S7024 Control Chamber	6.8	SURCHARGED
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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	35 99.073	-0.267	0.000	0.03	
1.001		S8046	35 97.731	-0.389	0.000	0.05	
2.000		S8042	35 98.243	-0.247	0.000	0.07	
2.001		S8043	35 97.696	-0.224	0.000	0.15	
1.002		S8170	35 97.219	-0.360	0.000	0.09	
1.003		S7016	35 96.298	-0.357	0.000	0.10	
1.004		S7019	35 95.083	-0.412	0.000	0.11	
3.000		S8070	35 95.511	-0.221	0.000	0.16	
4.000		S8072	35 96.837	-0.263	0.000	0.04	
3.001		S8071	35 95.103	-0.457	0.000	0.04	
3.002		S8062	37 94.347	-0.308	0.000	0.10	
1.005		S8063	36 94.346	-0.210	0.000	0.60	
1.006		S8073	24 94.344	-0.171	0.000	0.31	
1.007	S7022 Headwall	20 94.342	-0.083	0.000	0.34		
1.008	S7023 Headwall	17 94.341	0.041	0.000	0.31		
1.009	S7024 Control Chamber	8 94.341	0.291	0.000	0.02		

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	40 99.071	-0.269	0.000	0.02	
1.001		S8046	40 97.725	-0.395	0.000	0.04	
2.000		S8042	40 98.237	-0.253	0.000	0.06	
2.001		S8043	40 97.688	-0.232	0.000	0.12	
1.002		S8170	40 97.207	-0.372	0.000	0.07	
1.003		S7016	40 96.287	-0.368	0.000	0.08	
1.004		S7019	40 95.072	-0.423	0.000	0.08	
3.000		S8070	40 95.502	-0.230	0.000	0.12	
4.000		S8072	40 96.834	-0.266	0.000	0.03	
3.001		S8071	40 95.096	-0.464	0.000	0.03	
3.002		S8062	36 94.351	-0.304	0.000	0.08	
1.005		S8063	35 94.350	-0.206	0.000	0.48	
1.006		S8073	22 94.349	-0.166	0.000	0.25	
1.007	S7022 Headwall	19 94.347	-0.078	0.000	0.27		
1.008	S7023 Headwall	16 94.346	0.046	0.000	0.24		
1.009	S7024 Control Chamber	7 94.345	0.295	0.000	0.02		

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	49 99.063	-0.277	0.000	0.02	
1.001		S8046	49 97.718	-0.402	0.000	0.03	
2.000		S8042	49 98.229	-0.261	0.000	0.04	
2.001		S8043	49 97.678	-0.242	0.000	0.08	
1.002		S8170	49 97.194	-0.385	0.000	0.05	
1.003		S7016	49 96.273	-0.382	0.000	0.06	
1.004		S7019	49 95.053	-0.442	0.000	0.06	
3.000		S8070	49 95.493	-0.240	0.000	0.09	
4.000		S8072	49 96.830	-0.270	0.000	0.02	
3.001		S8071	49 95.089	-0.471	0.000	0.02	
3.002		S8062	39 94.344	-0.311	0.000	0.06	
1.005		S8063	38 94.344	-0.213	0.000	0.34	
1.006		S8073	25 94.342	-0.173	0.000	0.18	
1.007	S7022 Headwall	22 94.341	-0.084	0.000	0.19		
1.008	S7023 Headwall	18 94.340	0.040	0.000	0.18		
1.009	S7024 Control Chamber	9 94.339	0.289	0.000	0.02		

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	18 99.087	-0.253	0.000	0.06	
1.001		S8046	19 97.758	-0.362	0.000	0.08	
2.000		S8042	18 98.269	-0.221	0.000	0.15	
2.001		S8043	19 97.729	-0.191	0.000	0.28	
1.002		S8170	19 97.252	-0.327	0.000	0.17	
1.003		S7016	19 96.334	-0.321	0.000	0.18	
1.004		S7019	19 95.127	-0.368	0.000	0.19	
3.000		S8070	18 95.551	-0.181	0.000	0.33	
4.000		S8072	18 96.856	-0.244	0.000	0.08	
3.001		S8071	18 95.138	-0.422	0.000	0.08	
3.002		S8062	21 94.481	-0.174	0.000	0.16	
1.005		S8063	21 94.467	-0.090	0.000	1.00	
1.006		S8073	33 94.217	-0.298	0.000	0.50	
1.007	S7022	Headwall	33 94.121	-0.304	0.000	0.54	
1.008	S7023	Headwall	47 94.000	-0.300	0.000	0.50	
1.009	S7024	Control Chamber	71 93.690	-0.360	0.000	0.01	

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 9.1	OK
1.001		S8046 32.1	OK
2.000		S8042 19.0	OK
2.001		S8043 32.7	OK
1.002		S8170 68.0	OK
1.003		S7016 84.9	OK
1.004		S7019 110.9	OK
3.000		S8070 21.9	OK
4.000		S8072 18.8	OK
3.001		S8071 41.0	OK
3.002		S8062 51.3	OK
1.005		S8063 165.9	OK
1.006		S8073 178.3	OK
1.007	S7022 Headwall	174.0	OK*
1.008	S7023 Headwall	172.7	OK*
1.009	S7024 Control Chamber	1.7	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.400
Region England and Wales	Cv (Summer) 0.750	
M5-60 (mm)	20.000	Cv (Winter) 0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	24 99.081	-0.259	0.000	0.05	
1.001		S8046	26 97.748	-0.372	0.000	0.07	
2.000		S8042	24 98.259	-0.231	0.000	0.12	
2.001		S8043	26 97.717	-0.203	0.000	0.23	
1.002		S8170	26 97.239	-0.340	0.000	0.14	
1.003		S7016	26 96.321	-0.334	0.000	0.15	
1.004		S7019	26 95.111	-0.384	0.000	0.16	
3.000		S8070	24 95.535	-0.197	0.000	0.26	
4.000		S8072	24 96.848	-0.252	0.000	0.06	
3.001		S8071	24 95.122	-0.438	0.000	0.07	
3.002		S8062	31 94.412	-0.243	0.000	0.15	
1.005		S8063	31 94.399	-0.158	0.000	0.89	
1.006		S8073	37 94.196	-0.319	0.000	0.45	
1.007	S7022 Headwall	37 94.100	-0.325	0.000	0.49		
1.008	S7023 Headwall	52 93.982	-0.318	0.000	0.45		
1.009	S7024 Control Chamber	69 93.716	-0.334	0.000	0.01		

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 7.2	OK
1.001		S8046 26.9	OK
2.000		S8042 15.0	OK
2.001		S8043 26.7	OK
1.002		S8170 55.7	OK
1.003		S7016 70.3	OK
1.004		S7019 93.0	OK
3.000		S8070 17.1	OK
4.000		S8072 14.6	OK
3.001		S8071 32.2	OK
3.002		S8062 45.5	OK
1.005		S8063 147.8	OK
1.006		S8073 160.4	OK
1.007	S7022 Headwall	156.4	OK*
1.008	S7023 Headwall	156.5	OK*
1.009	S7024 Control Chamber	2.4	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	33 99.074	-0.266	0.000	0.03	
1.001		S8046	33 97.733	-0.387	0.000	0.05	
2.000		S8042	33 98.247	-0.243	0.000	0.08	
2.001		S8043	33 97.699	-0.221	0.000	0.16	
1.002		S8170	33 97.222	-0.357	0.000	0.09	
1.003		S7016	33 96.301	-0.354	0.000	0.10	
1.004		S7019	33 95.087	-0.408	0.000	0.11	
3.000		S8070	33 95.515	-0.217	0.000	0.17	
4.000		S8072	33 96.839	-0.261	0.000	0.04	
3.001		S8071	33 95.106	-0.454	0.000	0.04	
3.002		S8062	41 94.318	-0.337	0.000	0.10	
1.005		S8063	41 94.306	-0.250	0.000	0.64	
1.006		S8073	41 94.139	-0.376	0.000	0.33	
1.007	S7022 Headwall	47 94.049	-0.376	0.000	0.36		
1.008	S7023 Headwall	54 93.937	-0.363	0.000	0.33		
1.009	S7024 Control Chamber	67 93.744	-0.306	0.000	0.01		

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<u>Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 6</u>		

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	45 99.068	-0.272	0.000	0.02	
1.001		S8046	45 97.722	-0.398	0.000	0.03	
2.000		S8042	45 98.233	-0.257	0.000	0.05	
2.001		S8043	45 97.683	-0.237	0.000	0.10	
1.002		S8170	45 97.201	-0.378	0.000	0.06	
1.003		S7016	45 96.280	-0.375	0.000	0.07	
1.004		S7019	45 95.063	-0.432	0.000	0.07	
3.000		S8070	45 95.498	-0.234	0.000	0.11	
4.000		S8072	45 96.832	-0.268	0.000	0.03	
3.001		S8071	45 95.093	-0.467	0.000	0.03	
3.002		S8062	48 94.251	-0.404	0.000	0.07	
1.005		S8063	48 94.225	-0.332	0.000	0.41	
1.006		S8073	49 94.079	-0.436	0.000	0.21	
1.007	S7022	Headwall	56 93.990	-0.435	0.000	0.24	
1.008	S7023	Headwall	57 93.888	-0.412	0.000	0.22	
1.009	S7024	Control Chamber	64 93.772	-0.278	0.000	0.01	

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)	0.750	
M5-60 (mm)	20.000 Cv (Winter)	0.840	

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	52 99.061	-0.279	0.000	0.01	
1.001		S8046	52 97.717	-0.403	0.000	0.02	
2.000		S8042	52 98.228	-0.262	0.000	0.04	
2.001		S8043	52 97.675	-0.245	0.000	0.08	
1.002		S8170	52 97.191	-0.388	0.000	0.05	
1.003		S7016	52 96.270	-0.385	0.000	0.05	
1.004		S7019	52 95.050	-0.445	0.000	0.06	
3.000		S8070	52 95.490	-0.243	0.000	0.08	
4.000		S8072	52 96.828	-0.272	0.000	0.02	
3.001		S8071	52 95.088	-0.472	0.000	0.02	
3.002		S8062	53 94.226	-0.429	0.000	0.05	
1.005		S8063	53 94.186	-0.370	0.000	0.31	
1.006		S8073	57 94.048	-0.467	0.000	0.16	
1.007	S7022 Headwall	59 93.961	-0.464	0.000	0.18		
1.008	S7023 Headwall	59 93.863	-0.437	0.000	0.17		
1.009	S7024 Control Chamber	61 93.789	-0.261	0.000	0.01		

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	56 99.057	-0.283	0.000	0.01	
1.001		S8046	56 97.711	-0.409	0.000	0.02	
2.000		S8042	56 98.225	-0.265	0.000	0.03	
2.001		S8043	56 97.669	-0.251	0.000	0.06	
1.002		S8170	56 97.185	-0.394	0.000	0.04	
1.003		S7016	56 96.264	-0.391	0.000	0.04	
1.004		S7019	56 95.042	-0.453	0.000	0.05	
3.000		S8070	56 95.483	-0.249	0.000	0.07	
4.000		S8072	56 96.823	-0.277	0.000	0.02	
3.001		S8071	56 95.078	-0.482	0.000	0.02	
3.002		S8062	57 94.210	-0.445	0.000	0.04	
1.005		S8063	57 94.162	-0.394	0.000	0.26	
1.006		S8073	60 94.028	-0.487	0.000	0.13	
1.007	S7022 Headwall	61 93.942	-0.483	0.000	0.15		
1.008	S7023 Headwall	61 93.846	-0.454	0.000	0.14		
1.009	S7024 Control Chamber	57 93.799	-0.251	0.000	0.01		

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	62 99.053	-0.287	0.000	0.01	
1.001		S8046	62 97.701	-0.419	0.000	0.01	
2.000		S8042	62 98.221	-0.269	0.000	0.02	
2.001		S8043	62 97.662	-0.258	0.000	0.05	
1.002		S8170	62 97.179	-0.400	0.000	0.03	
1.003		S7016	62 96.257	-0.398	0.000	0.03	
1.004		S7019	62 95.033	-0.462	0.000	0.03	
3.000		S8070	62 95.475	-0.257	0.000	0.05	
4.000		S8072	62 96.817	-0.283	0.000	0.01	
3.001		S8071	62 95.067	-0.493	0.000	0.01	
3.002		S8062	62 94.195	-0.460	0.000	0.03	
1.005		S8063	62 94.134	-0.422	0.000	0.19	
1.006		S8073	63 94.001	-0.514	0.000	0.10	
1.007	S7022 Headwall	63 93.917	-0.508	0.000	0.11		
1.008	S7023 Headwall	63 93.828	-0.472	0.000	0.10		
1.009	S7024 Control Chamber	53 93.811	-0.239	0.000	0.01		

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PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 1.4	OK
1.001		S8046 5.6	OK
2.000		S8042 3.0	OK
2.001		S8043 5.5	OK
1.002		S8170 11.6	OK
1.003		S7016 14.7	OK
1.004		S7019 19.5	OK
3.000		S8070 3.4	OK
4.000		S8072 2.9	OK
3.001		S8071 6.4	OK
3.002		S8062 9.7	OK
1.005		S8063 32.0	OK
1.006		S8073 35.5	OK
1.007	S7022 Headwall	35.4	OK*
1.008	S7023 Headwall	35.4	OK*
1.009	S7024 Control Chamber	4.2	OK
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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	64 99.050	-0.290	0.000	0.01	
1.001		S8046	64 97.695	-0.425	0.000	0.01	
2.000		S8042	64 98.217	-0.273	0.000	0.02	
2.001		S8043	64 97.658	-0.262	0.000	0.04	
1.002		S8170	64 97.175	-0.404	0.000	0.02	
1.003		S7016	64 96.253	-0.402	0.000	0.03	
1.004		S7019	65 95.028	-0.467	0.000	0.03	
3.000		S8070	64 95.471	-0.261	0.000	0.04	
4.000		S8072	64 96.814	-0.286	0.000	0.01	
3.001		S8071	64 95.061	-0.499	0.000	0.01	
3.002		S8062	64 94.188	-0.467	0.000	0.03	
1.005		S8063	64 94.114	-0.442	0.000	0.16	
1.006		S8073	65 93.986	-0.529	0.000	0.08	
1.007	S7022 Headwall	65	93.901	-0.524	0.000	0.09	
1.008	S7023 Headwall	69	93.818	-0.482	0.000	0.08	
1.009	S7024 Control Chamber	51	93.817	-0.233	0.000	0.02	

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model FSR	Ratio R 0.400
Region England and Wales Cv (Summer) 0.750	
M5-60 (mm) 20.000	Cv (Winter) 0.840

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

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	67 99.049	-0.291	0.000	0.01	
1.001		S8046	67 97.691	-0.429	0.000	0.01	
2.000		S8042	67 98.213	-0.277	0.000	0.02	
2.001		S8043	67 97.655	-0.265	0.000	0.03	
1.002		S8170	67 97.171	-0.408	0.000	0.02	
1.003		S7016	67 96.250	-0.405	0.000	0.02	
1.004		S7019	67 95.024	-0.471	0.000	0.02	
3.000		S8070	67 95.468	-0.264	0.000	0.03	
4.000		S8072	67 96.812	-0.288	0.000	0.01	
3.001		S8071	67 95.057	-0.503	0.000	0.01	
3.002		S8062	67 94.183	-0.472	0.000	0.02	
1.005		S8063	67 94.101	-0.455	0.000	0.13	
1.006		S8073	67 93.976	-0.539	0.000	0.07	
1.007	S7022 Headwall	67	93.890	-0.535	0.000	0.08	
1.008	S7023 Headwall	68	93.821	-0.479	0.000	0.07	
1.009	S7024 Control Chamber	50	93.820	-0.230	0.000	0.02	

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	69 99.048	-0.292	0.000	0.01	
1.001		S8046	69 97.689	-0.431	0.000	0.01	
2.000		S8042	69 98.210	-0.280	0.000	0.01	
2.001		S8043	69 97.653	-0.267	0.000	0.03	
1.002		S8170	69 97.165	-0.414	0.000	0.02	
1.003		S7016	69 96.245	-0.410	0.000	0.02	
1.004		S7019	69 95.021	-0.474	0.000	0.02	
3.000		S8070	69 95.466	-0.266	0.000	0.03	
4.000		S8072	69 96.810	-0.290	0.000	0.01	
3.001		S8071	69 95.055	-0.505	0.000	0.01	
3.002		S8062	69 94.177	-0.478	0.000	0.02	
1.005		S8063	69 94.092	-0.465	0.000	0.12	
1.006		S8073	69 93.966	-0.549	0.000	0.06	
1.007	S7022 Headwall	69	93.882	-0.543	0.000	0.07	
1.008	S7023 Headwall	67	93.823	-0.477	0.000	0.06	
1.009	S7024 Control Chamber	49	93.823	-0.227	0.000	0.02	

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	70 99.046	-0.294	0.000	0.00	
1.001		S8046	70 97.685	-0.435	0.000	0.01	
2.000		S8042	70 98.206	-0.284	0.000	0.01	
2.001		S8043	70 97.651	-0.269	0.000	0.02	
1.002		S8170	71 97.158	-0.421	0.000	0.01	
1.003		S7016	70 96.237	-0.418	0.000	0.02	
1.004		S7019	70 95.011	-0.484	0.000	0.02	
3.000		S8070	70 95.464	-0.268	0.000	0.02	
4.000		S8072	70 96.808	-0.292	0.000	0.01	
3.001		S8071	71 95.051	-0.509	0.000	0.01	
3.002		S8062	70 94.168	-0.487	0.000	0.02	
1.005		S8063	70 94.080	-0.477	0.000	0.09	
1.006		S8073	70 93.951	-0.564	0.000	0.05	
1.007	S7022	Headwall	70 93.868	-0.557	0.000	0.05	
1.008	S7023	Headwall	64 93.826	-0.474	0.000	0.05	
1.009	S7024	Control Chamber	47 93.825	-0.225	0.000	0.02	

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
1.000		S8045	72 99.045	-0.295	0.000	0.00		
1.001		S8046	72 97.681	-0.439	0.000	0.01		
2.000		S8042	72 98.202	-0.288	0.000	0.01		
2.001		S8043	72 97.644	-0.276	0.000	0.02		
1.002		S8170	72 97.151	-0.428	0.000	0.01		
1.003		S7016	72 96.229	-0.426	0.000	0.01		
1.004		S7019	72 95.001	-0.494	0.000	0.01		
3.000		S8070	72 95.458	-0.274	0.000	0.02		
4.000		S8072	72 96.806	-0.294	0.000	0.00		
3.001		S8071	72 95.047	-0.513	0.000	0.00		
3.002		S8062	72 94.158	-0.497	0.000	0.01		
1.005		S8063	72 94.060	-0.496	0.000	0.07		
1.006		S8073	72 93.935	-0.580	0.000	0.04		
1.007	S7022	Headwall	72 93.853	-0.572	0.000	0.04		
1.008	S7023	Headwall	65 93.825	-0.475	0.000	0.04		
1.009	S7024	Control Chamber	48 93.824	-0.226	0.000	0.02		

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<u>Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 22.3	OK	
1.001		S8046 93.7	OK	
2.000		S8042 46.6	OK	
2.001		S8043 88.7	OK	
1.002		S8170 188.7	OK	
1.003		S7016 239.6	OK	
1.004		S7019 315.6	OK	
3.000		S8070 53.8	OK	
4.000		S8072 46.2	OK	
3.001		S8071 101.0	OK	
3.002		S8062 134.9	SURCHARGED	
1.005		S8063 457.7	SURCHARGED	
1.006		S8073 494.3	SURCHARGED	
1.007	S7022 Headwall	476.1	SURCHARGED*	
1.008	S7023 Headwall	472.3	SURCHARGED*	
1.009	S7024 Control Chamber	4.2	OK	
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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Time (mins)
1.000		S8045	26 99.081	-0.259	0.000	0.05	
1.001		S8046	25 97.750	-0.370	0.000	0.07	
2.000		S8042	26 98.259	-0.231	0.000	0.12	
2.001		S8043	25 97.718	-0.202	0.000	0.24	
1.002		S8170	25 97.241	-0.338	0.000	0.14	
1.003		S7016	25 96.323	-0.332	0.000	0.16	
1.004		S7019	25 95.115	-0.380	0.000	0.17	
3.000		S8070	26 95.534	-0.198	0.000	0.25	
4.000		S8072	26 96.848	-0.252	0.000	0.06	
3.001		S8071	26 95.122	-0.438	0.000	0.07	
3.002		S8062	23 94.440	-0.215	0.000	0.16	
1.005		S8063	27 94.425	-0.131	0.000	0.96	
1.006		S8073	32 94.222	-0.293	0.000	0.50	
1.007	S7022 Headwall	32 94.125	-0.300	0.000	0.55		
1.008	S7023 Headwall	46 94.003	-0.297	0.000	0.51		
1.009	S7024 Control Chamber	38 93.985	-0.065	0.000	0.02		

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	31 99.076	-0.264	0.000	0.03	
1.001		S8046	31 97.737	-0.383	0.000	0.05	
2.000		S8042	31 98.250	-0.240	0.000	0.09	
2.001		S8043	31 97.704	-0.216	0.000	0.18	
1.002		S8170	31 97.226	-0.353	0.000	0.11	
1.003		S7016	31 96.307	-0.348	0.000	0.12	
1.004		S7019	31 95.094	-0.401	0.000	0.13	
3.000		S8070	31 95.520	-0.212	0.000	0.19	
4.000		S8072	31 96.841	-0.259	0.000	0.05	
3.001		S8071	31 95.109	-0.451	0.000	0.05	
3.002		S8062	38 94.346	-0.309	0.000	0.12	
1.005		S8063	40 94.336	-0.220	0.000	0.72	
1.006		S8073	39 94.163	-0.352	0.000	0.37	
1.007	S7022 Headwall	44 94.070	-0.355	0.000	0.41		
1.008	S7023 Headwall	44 94.014	-0.286	0.000	0.38		
1.009	S7024 Control Chamber	35 94.014	-0.036	0.000	0.02		

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PN	US/MH Name	Pipe Flow (l/s) Status
1.000		S8045 5.3 OK
1.001		S8046 21.1 OK
2.000		S8042 11.1 OK
2.001		S8043 20.5 OK
1.002		S8170 43.4 OK
1.003		S7016 55.0 OK
1.004		S7019 73.2 OK
3.000		S8070 12.6 OK
4.000		S8072 10.8 OK
3.001		S8071 24.1 OK
3.002		S8062 36.3 OK
1.005		S8063 119.6 OK
1.006		S8073 132.8 OK
1.007	S7022 Headwall	132.4 OK*
1.008	S7023 Headwall	132.3 OK*
1.009	S7024 Control Chamber	5.1 OK
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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

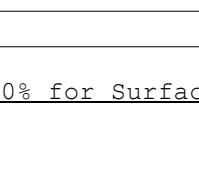
Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	36 99.073	-0.267	0.000	0.03	
1.001		S8046	36 97.730	-0.390	0.000	0.04	
2.000		S8042	36 98.242	-0.248	0.000	0.07	
2.001		S8043	36 97.695	-0.225	0.000	0.14	
1.002		S8170	36 97.217	-0.362	0.000	0.09	
1.003		S7016	36 96.297	-0.358	0.000	0.09	
1.004		S7019	36 95.082	-0.413	0.000	0.10	
3.000		S8070	36 95.510	-0.222	0.000	0.15	
4.000		S8072	36 96.837	-0.263	0.000	0.04	
3.001		S8071	36 95.102	-0.458	0.000	0.04	
3.002		S8062	42 94.300	-0.355	0.000	0.09	
1.005		S8063	42 94.285	-0.271	0.000	0.58	
1.006		S8073	42 94.127	-0.388	0.000	0.30	
1.007	S7022 Headwall	48 94.036	-0.389	0.000	0.33		
1.008	S7023 Headwall	38 94.033	-0.267	0.000	0.31		
1.009	S7024 Control Chamber	28 94.033	-0.017	0.000	0.02		

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<u>Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 4.3	OK
1.001		S8046 16.9	OK
2.000		S8042 8.9	OK
2.001		S8043 16.5	OK
1.002		S8170 34.9	OK
1.003		S7016 44.2	OK
1.004		S7019 58.8	OK
3.000		S8070 10.2	OK
4.000		S8072 8.7	OK
3.001		S8071 19.3	OK
3.002		S8062 29.2	OK
1.005		S8063 96.4	OK
1.006		S8073 106.8	OK
1.007	S7022 Headwall	106.8	OK*
1.008	S7023 Headwall	106.8	OK*
1.009	S7024 Control Chamber	5.2	OK
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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Time (mins)
1.000		S8045	43 99.068	-0.272	0.000	0.02	
1.001		S8046	43 97.722	-0.398	0.000	0.03	
2.000		S8042	43 98.234	-0.256	0.000	0.05	
2.001		S8043	43 97.684	-0.236	0.000	0.10	
1.002		S8170	43 97.202	-0.377	0.000	0.06	
1.003		S7016	43 96.282	-0.373	0.000	0.07	
1.004		S7019	43 95.065	-0.430	0.000	0.08	
3.000		S8070	43 95.499	-0.234	0.000	0.11	
4.000		S8072	43 96.833	-0.267	0.000	0.03	
3.001		S8071	43 95.093	-0.467	0.000	0.03	
3.002		S8062	46 94.254	-0.401	0.000	0.07	
1.005		S8063	46 94.229	-0.328	0.000	0.43	
1.006		S8073	46 94.083	-0.432	0.000	0.22	
1.007	S7022	Headwall	46 94.057	-0.368	0.000	0.24	
1.008	S7023	Headwall	36 94.056	-0.244	0.000	0.22	
1.009	S7024	Control Chamber	27 94.056	0.006	0.000	0.02	

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<u>Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 3.1	OK
1.001		S8046 12.4	OK
2.000		S8042 6.5	OK
2.001		S8043 12.0	OK
1.002		S8170 25.5	OK
1.003		S7016 32.3	OK
1.004		S7019 43.0	OK
3.000		S8070 7.4	OK
4.000		S8072 6.4	OK
3.001		S8071 14.2	OK
3.002		S8062 21.4	OK
1.005		S8063 70.6	OK
1.006		S8073 78.3	OK
1.007	S7022 Headwall	78.2	OK*
1.008	S7023 Headwall	77.9	OK*
1.009	S7024 Control Chamber	5.4	SURCHARGED
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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	50 99.063	-0.277	0.000	0.02	
1.001		S8046	50 97.718	-0.402	0.000	0.03	
2.000		S8042	50 98.229	-0.261	0.000	0.04	
2.001		S8043	50 97.677	-0.243	0.000	0.08	
1.002		S8170	50 97.193	-0.386	0.000	0.05	
1.003		S7016	50 96.272	-0.383	0.000	0.05	
1.004		S7019	50 95.053	-0.442	0.000	0.06	
3.000		S8070	50 95.492	-0.240	0.000	0.09	
4.000		S8072	50 96.830	-0.270	0.000	0.02	
3.001		S8071	50 95.089	-0.471	0.000	0.02	
3.002		S8062	51 94.233	-0.422	0.000	0.05	
1.005		S8063	51 94.197	-0.359	0.000	0.34	
1.006		S8073	53 94.072	-0.443	0.000	0.18	
1.007	S7022 Headwall	43	94.071	-0.354	0.000	0.19	
1.008	S7023 Headwall	35	94.070	-0.230	0.000	0.18	
1.009	S7024 Control Chamber	26	94.069	0.019	0.000	0.02	

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<u>Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.5	OK
1.001		S8046 9.9	OK
2.000		S8042 5.2	OK
2.001		S8043 9.6	OK
1.002		S8170 20.4	OK
1.003		S7016 25.9	OK
1.004		S7019 34.4	OK
3.000		S8070 5.9	OK
4.000		S8072 5.1	OK
3.001		S8071 11.3	OK
3.002		S8062 17.1	OK
1.005		S8063 56.5	OK
1.006		S8073 62.6	OK
1.007	S7022 Headwall	62.3	OK*
1.008	S7023 Headwall	61.8	OK*
1.009	S7024 Control Chamber	5.5	SURCHARGED
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<u>Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.1	OK
1.001		S8046 8.3	OK
2.000		S8042 4.4	OK
2.001		S8043 8.1	OK
1.002		S8170 17.2	OK
1.003		S7016 21.7	OK
1.004		S7019 28.9	OK
3.000		S8070 5.0	OK
4.000		S8072 4.3	OK
3.001		S8071 9.5	OK
3.002		S8062 14.4	OK
1.005		S8063 47.5	OK
1.006		S8073 52.7	OK
1.007	S7022 Headwall	52.4	OK*
1.008	S7023 Headwall	51.9	OK*
1.009	S7024 Control Chamber	5.5	SURCHARGED
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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

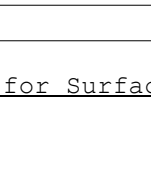
Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	58 99.057	-0.283	0.000	0.01	
1.001		S8046	58 97.710	-0.410	0.000	0.02	
2.000		S8042	58 98.224	-0.266	0.000	0.03	
2.001		S8043	58 97.667	-0.253	0.000	0.06	
1.002		S8170	58 97.184	-0.395	0.000	0.04	
1.003		S7016	58 96.263	-0.392	0.000	0.04	
1.004		S7019	58 95.040	-0.455	0.000	0.04	
3.000		S8070	58 95.482	-0.251	0.000	0.06	
4.000		S8072	58 96.822	-0.278	0.000	0.02	
3.001		S8071	58 95.077	-0.483	0.000	0.02	
3.002		S8062	58 94.208	-0.447	0.000	0.04	
1.005		S8063	58 94.158	-0.398	0.000	0.25	
1.006		S8073	48 94.080	-0.435	0.000	0.13	
1.007	S7022 Headwall	40	94.079	-0.346	0.000	0.14	
1.008	S7023 Headwall	32	94.078	-0.222	0.000	0.13	
1.009	S7024 Control Chamber	22	94.078	0.028	0.000	0.02	

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 1.8	OK	
1.001		S8046 7.2	OK	
2.000		S8042 3.8	OK	
2.001		S8043 7.0	OK	
1.002		S8170 14.9	OK	
1.003		S7016 18.9	OK	
1.004		S7019 25.1	OK	
3.000		S8070 4.3	OK	
4.000		S8072 3.7	OK	
3.001		S8071 8.3	OK	
3.002		S8062 12.5	OK	
1.005		S8063 41.2	OK	
1.006		S8073 45.7	OK	
1.007	S7022 Headwall	45.4	OK*	
1.008	S7023 Headwall	45.0	OK*	
1.009	S7024 Control Chamber	5.5	SURCHARGED	
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Innovyze		Network 2020.1.3

Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	60 99.053	-0.287	0.000	0.01	
1.001		S8046	60 97.702	-0.418	0.000	0.01	
2.000		S8042	60 98.221	-0.269	0.000	0.02	
2.001		S8043	60 97.662	-0.258	0.000	0.05	
1.002		S8170	60 97.179	-0.400	0.000	0.03	
1.003		S7016	60 96.257	-0.398	0.000	0.03	
1.004		S7019	60 95.033	-0.462	0.000	0.04	
3.000		S8070	60 95.476	-0.256	0.000	0.05	
4.000		S8072	60 96.818	-0.282	0.000	0.01	
3.001		S8071	60 95.068	-0.492	0.000	0.01	
3.002		S8062	60 94.196	-0.459	0.000	0.03	
1.005		S8063	60 94.137	-0.420	0.000	0.20	
1.006		S8073	47 94.081	-0.434	0.000	0.10	
1.007	S7022 Headwall	39 94.080	-0.345	0.000	0.11		
1.008	S7023 Headwall	31 94.079	-0.221	0.000	0.10		
1.009	S7024 Control Chamber	21 94.079	0.029	0.000	0.02		

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Innovyze		Network 2020.1.3	
<u>Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 1.5	OK
1.001		S8046 5.8	OK
2.000		S8042 3.0	OK
2.001		S8043 5.6	OK
1.002		S8170 11.9	OK
1.003		S7016 15.1	OK
1.004		S7019 20.0	OK
3.000		S8070 3.5	OK
4.000		S8072 3.0	OK
3.001		S8071 6.6	OK
3.002		S8062 10.0	OK
1.005		S8063 32.9	OK
1.006		S8073 36.5	OK
1.007	S7022 Headwall	36.3	OK*
1.008	S7023 Headwall	35.9	OK*
1.009	S7024 Control Chamber	5.5	SURCHARGED
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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

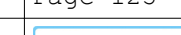
Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440	Summer and Winter
Return Period(s) (years)	1, 30, 100	
Climate Change (%)	0, 0, 40	

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	66 99.050	-0.290	0.000	0.01	
1.001		S8046	66 97.693	-0.427	0.000	0.01	
2.000		S8042	66 98.215	-0.275	0.000	0.02	
2.001		S8043	66 97.656	-0.264	0.000	0.04	
1.002		S8170	66 97.174	-0.405	0.000	0.02	
1.003		S7016	66 96.251	-0.404	0.000	0.02	
1.004		S7019	66 95.026	-0.469	0.000	0.03	
3.000		S8070	66 95.470	-0.263	0.000	0.04	
4.000		S8072	66 96.813	-0.287	0.000	0.01	
3.001		S8071	66 95.059	-0.501	0.000	0.01	
3.002		S8062	66 94.185	-0.470	0.000	0.02	
1.005		S8063	66 94.107	-0.449	0.000	0.14	
1.006		S8073	52 94.074	-0.441	0.000	0.07	
1.007	S7022	Headwall	42 94.073	-0.352	0.000	0.08	
1.008	S7023	Headwall	34 94.073	-0.227	0.000	0.08	
1.009	S7024	Control Chamber	24 94.072	0.022	0.000	0.02	

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 1.1	OK	
1.001		S8046 4.2	OK	
2.000		S8042 2.2	OK	
2.001		S8043 4.1	OK	
1.002		S8170 8.6	OK	
1.003		S7016 11.0	OK	
1.004		S7019 14.6	OK	
3.000		S8070 2.5	OK	
4.000		S8072 2.2	OK	
3.001		S8071 4.8	OK	
3.002		S8062 7.3	OK	
1.005		S8063 23.9	OK	
1.006		S8073 26.5	OK	
1.007	S7022 Headwall	26.4	OK*	
1.008	S7023 Headwall	26.0	OK*	
1.009	S7024 Control Chamber	5.5	SURCHARGED	
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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 6

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

Synthetic Rainfall Details

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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 40.4	OK
1.001		S8046 170.1	OK
2.000		S8042 84.3	OK
2.001		S8043 156.1	SURCHARGED
1.002		S8170 326.2	SURCHARGED
1.003		S7016 366.4	SURCHARGED
1.004		S7019 457.5	SURCHARGED
3.000		S8070 89.2	SURCHARGED
4.000		S8072 83.9	OK
3.001		S8071 161.2	SURCHARGED
3.002		S8062 230.3	FLOOD RISK
1.005		S8063 708.8	FLOOD
1.006		S8073 772.7	SURCHARGED
1.007	S7022 Headwall	758.5	SURCHARGED*
1.008	S7023 Headwall	759.2	SURCHARGED*
1.009	S7024 Control Chamber	4.8	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	14 99.098	-0.242	0.000	0.08	
1.001		S8046	14 97.779	-0.341	0.000	0.13	
2.000		S8042	14 98.285	-0.205	0.000	0.22	
2.001		S8043	14 97.758	-0.162	0.000	0.43	
1.002		S8170	14 97.285	-0.294	0.000	0.26	
1.003		S7016	14 96.369	-0.286	0.000	0.29	
1.004		S7019	14 95.172	-0.323	0.000	0.32	
3.000		S8070	14 95.576	-0.156	0.000	0.47	
4.000		S8072	14 96.867	-0.233	0.000	0.11	
3.001		S8071	14 95.156	-0.404	0.000	0.12	
3.002		S8062	13 94.589	-0.066	0.000	0.29	
1.005		S8063	13 94.563	0.007	0.000	1.78	
1.006		S8073	13 94.459	-0.056	0.000	0.91	
1.007	S7022 Headwall	23 94.337	-0.088	0.000	1.00		
1.008	S7023 Headwall	27 94.259	-0.041	0.000	0.92		
1.009	S7024 Control Chamber	16 94.257	0.207	0.000	0.02		

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		Network 2020.1.3		
<u>Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 6</u>				
PN	US/MH Name	Pipe Flow (l/s)	Status	
1.000		S8045 13.1	OK	
1.001		S8046 51.9	OK	
2.000		S8042 27.3	OK	
2.001		S8043 50.6	OK	
1.002		S8170 107.1	OK	
1.003		S7016 135.7	OK	
1.004		S7019 180.5	OK	
3.000		S8070 31.1	OK	
4.000		S8072 26.7	OK	
3.001		S8071 59.3	OK	
3.002		S8062 89.6	OK	
1.005		S8063 295.7	SURCHARGED	
1.006		S8073 325.7	OK	
1.007	S7022 Headwall	320.6	OK*	
1.008	S7023 Headwall	320.6	OK*	
1.009	S7024 Control Chamber	6.5	SURCHARGED	
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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	34 99.074	-0.266	0.000	0.03	
1.001		S8046	34 97.732	-0.388	0.000	0.05	
2.000		S8042	34 98.244	-0.246	0.000	0.08	
2.001		S8043	34 97.697	-0.223	0.000	0.15	
1.002		S8170	34 97.220	-0.359	0.000	0.09	
1.003		S7016	34 96.299	-0.356	0.000	0.10	
1.004		S7019	34 95.085	-0.410	0.000	0.11	
3.000		S8070	34 95.512	-0.220	0.000	0.16	
4.000		S8072	34 96.838	-0.262	0.000	0.04	
3.001		S8071	34 95.103	-0.457	0.000	0.04	
3.002		S8062	30 94.415	-0.240	0.000	0.10	
1.005		S8063	29 94.413	-0.143	0.000	0.61	
1.006		S8073	19 94.410	-0.105	0.000	0.32	
1.007	S7022 Headwall	16 94.407	-0.018	0.000	0.35		
1.008	S7023 Headwall	10 94.375	0.075	0.000	0.32		
1.009	S7024 Control Chamber	5 94.398	0.348	0.000	0.03		

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Innovyze		Network 2020.1.3	
<u>Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 4.5	OK
1.001		S8046 17.9	OK
2.000		S8042 9.4	OK
2.001		S8043 17.4	OK
1.002		S8170 36.9	OK
1.003		S7016 46.8	OK
1.004		S7019 62.2	OK
3.000		S8070 10.7	OK
4.000		S8072 9.2	OK
3.001		S8071 20.5	OK
3.002		S8062 31.0	OK
1.005		S8063 102.1	OK
1.006		S8073 112.9	OK
1.007	S7022 Headwall	111.4	OK*
1.008	S7023 Headwall	109.4	SURCHARGED*
1.009	S7024 Control Chamber	7.1	SURCHARGED
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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	39 99.071	-0.269	0.000	0.02	
1.001		S8046	39 97.727	-0.393	0.000	0.04	
2.000		S8042	39 98.239	-0.251	0.000	0.06	
2.001		S8043	39 97.690	-0.230	0.000	0.13	
1.002		S8170	39 97.210	-0.369	0.000	0.08	
1.003		S7016	39 96.291	-0.364	0.000	0.08	
1.004		S7019	39 95.076	-0.419	0.000	0.09	
3.000		S8070	39 95.505	-0.227	0.000	0.13	
4.000		S8072	39 96.835	-0.265	0.000	0.03	
3.001		S8071	39 95.098	-0.462	0.000	0.03	
3.002		S8062	28 94.431	-0.224	0.000	0.08	
1.005		S8063	25 94.430	-0.126	0.000	0.52	
1.006		S8073	17 94.428	-0.087	0.000	0.27	
1.007	S7022	Headwall	15 94.425	0.000	0.000	0.29	
1.008	S7023	Headwall	11 94.375	0.075	0.000	0.26	
1.009	S7024	Control Chamber	4 94.412	0.362	0.000	0.03	

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales Cv (Summer)	0.750		
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000		S8045	42	99.070	-0.270	0.000	0.02
1.001		S8046	42	97.723	-0.397	0.000	0.03
2.000		S8042	42	98.235	-0.255	0.000	0.05
2.001		S8043	42	97.686	-0.234	0.000	0.11
1.002		S8170	42	97.204	-0.375	0.000	0.07
1.003		S7016	42	96.284	-0.371	0.000	0.07
1.004		S7019	42	95.068	-0.427	0.000	0.08
3.000		S8070	42	95.500	-0.232	0.000	0.12
4.000		S8072	42	96.833	-0.267	0.000	0.03
3.001		S8071	42	95.094	-0.466	0.000	0.03
3.002		S8062	27	94.432	-0.223	0.000	0.07
1.005		S8063	24	94.430	-0.126	0.000	0.45
1.006		S8073	16	94.428	-0.087	0.000	0.23
1.007	S7022	Headwall	14	94.425	0.000	0.000	0.25
1.008	S7023	Headwall	12	94.375	0.075	0.000	0.23
1.009	S7024	Control Chamber	3	94.422	0.372	0.000	0.03

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 3.3	OK
1.001		S8046 13.0	OK
2.000		S8042 6.8	OK
2.001		S8043 12.6	OK
1.002		S8170 26.8	OK
1.003		S7016 33.9	OK
1.004		S7019 45.1	OK
3.000		S8070 7.8	OK
4.000		S8072 6.7	OK
3.001		S8071 14.9	OK
3.002		S8062 22.4	OK
1.005		S8063 73.9	OK
1.006		S8073 81.7	OK
1.007	S7022 Headwall	80.5	OK*
1.008	S7023 Headwall	79.1	SURCHARGED*
1.009	S7024 Control Chamber	7.2	SURCHARGED

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	47 99.064	-0.276	0.000	0.02	
1.001		S8046	47 97.719	-0.401	0.000	0.03	
2.000		S8042	47 98.230	-0.260	0.000	0.04	
2.001		S8043	47 97.679	-0.241	0.000	0.09	
1.002		S8170	47 97.195	-0.384	0.000	0.05	
1.003		S7016	47 96.274	-0.381	0.000	0.06	
1.004		S7019	47 95.055	-0.440	0.000	0.06	
3.000		S8070	47 95.493	-0.239	0.000	0.09	
4.000		S8072	47 96.831	-0.269	0.000	0.02	
3.001		S8071	47 95.090	-0.470	0.000	0.02	
3.002		S8062	25 94.436	-0.219	0.000	0.06	
1.005		S8063	22 94.436	-0.121	0.000	0.35	
1.006		S8073	14 94.434	-0.081	0.000	0.18	
1.007	S7022 Headwall	6	94.425	0.000	0.000	0.20	
1.008	S7023 Headwall	4	94.375	0.075	0.000	0.18	
1.009	S7024 Control Chamber	1	94.431	0.381	0.000	0.03	

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<u>Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 6</u>			
PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 2.6	OK
1.001		S8046 10.3	OK
2.000		S8042 5.4	OK
2.001		S8043 10.0	OK
1.002		S8170 21.3	OK
1.003		S7016 26.9	OK
1.004		S7019 35.9	OK
3.000		S8070 6.2	OK
4.000		S8072 5.3	OK
3.001		S8071 11.8	OK
3.002		S8062 17.8	OK
1.005		S8063 58.5	OK
1.006		S8073 64.7	OK
1.007	S7022 Headwall	63.7	SURCHARGED*
1.008	S7023 Headwall	62.6	SURCHARGED*
1.009	S7024 Control Chamber	7.3	SURCHARGED
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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

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

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.000		S8045	57 99.057	-0.283	0.000	0.01	
1.001		S8046	57 97.711	-0.409	0.000	0.02	
2.000		S8042	57 98.225	-0.265	0.000	0.03	
2.001		S8043	57 97.668	-0.252	0.000	0.06	
1.002		S8170	57 97.185	-0.394	0.000	0.04	
1.003		S7016	57 96.263	-0.392	0.000	0.04	
1.004		S7019	57 95.041	-0.454	0.000	0.05	
3.000		S8070	57 95.483	-0.250	0.000	0.07	
4.000		S8072	57 96.823	-0.277	0.000	0.02	
3.001		S8071	57 95.078	-0.482	0.000	0.02	
3.002		S8062	26 94.432	-0.223	0.000	0.04	
1.005		S8063	23 94.432	-0.125	0.000	0.25	
1.006		S8073	15 94.430	-0.085	0.000	0.13	
1.007	S7022 Headwall	1	94.425	0.000	0.000	0.14	
1.008	S7023 Headwall	1	94.375	0.075	0.000	0.13	
1.009	S7024 Control Chamber	2	94.427	0.377	0.000	0.03	

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PN	US/MH Name	Pipe Flow (l/s)	Status
1.000		S8045 1.9	OK
1.001		S8046 7.4	OK
2.000		S8042 3.9	OK
2.001		S8043 7.3	OK
1.002		S8170 15.4	OK
1.003		S7016 19.5	OK
1.004		S7019 25.9	OK
3.000		S8070 4.5	OK
4.000		S8072 3.8	OK
3.001		S8071 8.5	OK
3.002		S8062 12.9	OK
1.005		S8063 42.3	OK
1.006		S8073 46.7	OK
1.007	S7022 Headwall	45.9	SURCHARGED*
1.008	S7023 Headwall	45.2	SURCHARGED*
1.009	S7024 Control Chamber	7.2	SURCHARGED
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