

Bloor Homes		Page 0
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

STORM SEWER DESIGN by the Modified Rational Method

Pipe Sizes STANDARD Manhole Sizes STANDARD

Designed with Level Soffits

« - Indicates pipe capacity < flow

Network Results Table

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Network Design Table for Surface Network 8

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
2.001	26.139	0.153	170.8	0.120	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.002	26.496	0.027	981.3	0.088	0.00	0.0	0.600	o	375	Pipe/Conduit	
3.000	48.145	0.207	232.6	0.115	5.00	0.0	0.600	o	525	Pipe/Conduit	
3.001	25.530	0.084	303.9	0.083	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.003	15.475	0.209	74.0	0.007	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.004	17.159	0.072	238.3	0.142	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.005	13.568	0.027	502.5	0.138	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.006	17.264	0.126	137.0	0.148	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.009	41.865	0.075	556.0	0.047	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.010	34.997	0.110	319.0	0.211	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.011	32.331	0.546	59.2	0.074	0.00	0.0	0.600	o	600	Pipe/Conduit	
4.000	58.453	0.246	237.7	0.106	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.012	6.746	0.124	54.4	0.164	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.013	21.383	0.350	61.1	0.035	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.014	13.269	0.160	82.9	0.030	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.015	37.757	0.380	99.4	0.058	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.016	47.054	1.100	42.8	0.112	0.00	0.0	0.600	o	600	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.001	50.00	5.82	100.139	0.304	0.0	0.0	0.0	1.20	84.8	41.2
2.002	50.00	6.60	99.911	0.392	0.0	0.0	0.0	0.57	63.0	53.1
3.000	50.00	5.55	100.025	0.115	0.0	0.0	0.0	1.46	317.0	15.6
3.001	50.00	5.88	99.818	0.198	0.0	0.0	0.0	1.28	277.0	26.8
2.003	50.00	6.70	99.734	0.597	0.0	0.0	0.0	2.61	564.0	80.8
2.004	50.00	6.90	99.525	0.739	0.0	0.0	0.0	1.45	313.1	100.1
2.005	50.00	7.12	99.453	0.877	0.0	0.0	0.0	0.99	214.8	118.8
2.006	50.00	7.27	99.426	1.025	0.0	0.0	0.0	1.91	413.9	138.8
1.009	50.00	8.01	99.300	1.709	0.0	0.0	0.0	0.94	204.1	231.5
1.010	50.00	8.44	99.150	1.920	0.0	0.0	0.0	1.36	383.9	260.0
1.011	50.00	8.61	99.040	1.994	0.0	0.0	0.0	3.17	895.9	270.0
4.000	50.00	5.96	99.040	0.106	0.0	0.0	0.0	1.02	71.8	14.3
1.012	50.00	8.65	98.494	2.264	0.0	0.0	0.0	3.31	935.2	306.5
1.013	50.00	8.76	98.370	2.299	0.0	0.0	0.0	3.12	882.0	311.3
1.014	50.00	8.84	98.020	2.329	0.0	0.0	0.0	2.68	756.5	315.4
1.015	50.00	9.10	97.860	2.387	0.0	0.0	0.0	2.44	690.8	323.3
1.016	50.00	9.31	97.480	2.499	0.0	0.0	0.0	3.73	1054.8	338.4

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Online Controls for Surface Network 8

Hydro-Brake® Optimum Manhole: S8052 Control Chamber, DS/PN: 1.020, Volume (m³): 15.0

Unit Reference	MD-SHE-0145-1080-1400-1080
Design Head (m)	1.400
Design Flow (l/s)	10.8
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	145
Invert Level (m)	96.200
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.400	10.8
Flush-Flo™	0.412	10.7
Kick-Flo®	0.882	8.7
Mean Flow over Head Range	-	9.4

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	5.2	1.200	10.0	3.000	15.5	7.000	23.2
0.200	9.9	1.400	10.8	3.500	16.7	7.500	24.0
0.300	10.6	1.600	11.5	4.000	17.8	8.000	24.8
0.400	10.7	1.800	12.1	4.500	18.8	8.500	25.5
0.500	10.7	2.000	12.8	5.000	19.8	9.000	26.2
0.600	10.5	2.200	13.4	5.500	20.7	9.500	26.9
0.800	9.6	2.400	13.9	6.000	21.6		
1.000	9.2	2.600	14.5	6.500	22.4		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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)
1.000	S8104 Jelson	20	102.210	-0.206	0.000	0.21
1.001	S8172 Jelson	20	101.895	-0.194	0.000	0.27
1.002	S8105 Jelson	20	101.651	-0.185	0.000	0.31
1.003	S8107 Jelson	20	101.176	-0.345	0.000	0.12
1.004	S8171 Jelson	20	100.929	-0.327	0.000	0.16
1.005	S8170 Jelson	20	100.360	-0.306	0.000	0.22
1.006	S8009 - Jelson Connection	20	100.021	-0.386	0.000	0.16
1.007	S8010	24	99.779	-0.316	0.000	0.29
1.008	S8011	24	99.718	-0.267	0.000	0.21
2.000	S8108 Jelson	20	100.655	-0.200	0.000	0.24
2.001	S8109 Jelson	22	100.316	-0.123	0.000	0.47
2.002	S8110 Jelson	22	100.280	-0.006	0.000	1.00
3.000	S8115 Jelson	20	100.104	-0.446	0.000	0.05
3.001	S8116 Jelson	22	99.942	-0.401	0.000	0.10
2.003	S8111 Jelson	22	99.885	-0.374	0.000	0.18
2.004	S8112 Jelson	24	99.814	-0.236	0.000	0.33
2.005	S8113 Jelson	24	99.794	-0.184	0.000	0.74
2.006	S8022 Jelson Connection	24	99.727	-0.224	0.000	0.37
1.009	S8023	24	99.702	-0.123	0.000	0.93
1.010	S8025	24	99.472	-0.278	0.000	0.56
1.011	S8026	24	99.243	-0.397	0.000	0.25

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	21 99.127	-0.213	0.000	0.19		
1.012		S8028	27 98.816	-0.278	0.000	0.56		
1.013		S8029	27 98.610	-0.360	0.000	0.34		
1.014		S8030	27 98.322	-0.298	0.000	0.50		
1.015		S8031	27 98.106	-0.354	0.000	0.35		
1.016		S8034	37 97.675	-0.405	0.000	0.23		
1.017		S8037	52 96.928	-0.452	0.000	0.27		
1.018	S8039 - Headwall	52	96.915	0.000	0.000	1.24		
1.019	S8051 - Headwall	57	96.646	-0.254	0.000	0.63		
1.020	S8052 Control Chamber	70	96.532	-0.268	0.000	0.02		

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	12.7	OK
1.012		S8028	198.0	OK
1.013		S8029	199.9	OK
1.014		S8030	201.8	OK
1.015		S8031	205.5	OK
1.016		S8034	211.8	OK
1.017		S8037	217.0	OK
1.018	S8039 - Headwall	218.3		OK*
1.019	S8051 - Headwall	218.0		OK*
1.020	S8052 Control Chamber	10.7		OK

Bloor Homes			Page 11																																																																																																																																																																																										
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			Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow																																																																																																																																																																
PN	US/MH Name	Storm Rank	(m)	(m)	(m³)	Cap. (l/s)																																																																																																																																																																
1.000	S8104 Jelson	38	102.177	-0.239	0.000	0.09																																																																																																																																																																
1.001	S8172 Jelson	38	101.859	-0.230	0.000	0.12																																																																																																																																																																
1.002	S8105 Jelson	38	101.612	-0.224	0.000	0.14																																																																																																																																																																
1.003	S8107 Jelson	38	101.141	-0.380	0.000	0.06																																																																																																																																																																
1.004	S8171 Jelson	38	100.892	-0.364	0.000	0.08																																																																																																																																																																
1.005	S8170 Jelson	38	100.316	-0.350	0.000	0.11																																																																																																																																																																
1.006	S8009 - Jelson Connection	38	99.980	-0.428	0.000	0.08																																																																																																																																																																
1.007	S8010	38	99.705	-0.390	0.000	0.14																																																																																																																																																																
1.008	S8011	38	99.608	-0.377	0.000	0.11																																																																																																																																																																
2.000	S8108 Jelson	38	100.620	-0.235	0.000	0.10																																																																																																																																																																
2.001	S8109 Jelson	38	100.237	-0.202	0.000	0.23																																																																																																																																																																
2.002	S8110 Jelson	38	100.113	-0.173	0.000	0.55																																																																																																																																																																
3.000	S8115 Jelson	38	100.080	-0.470	0.000	0.02																																																																																																																																																																
3.001	S8116 Jelson	38	99.902	-0.441	0.000	0.05																																																																																																																																																																
2.003	S8111 Jelson	38	99.844	-0.415	0.000	0.10																																																																																																																																																																
2.004	S8112 Jelson	38	99.716	-0.334	0.000	0.18																																																																																																																																																																
2.005	S8113 Jelson	38	99.693	-0.285	0.000	0.41																																																																																																																																																																
2.006	S8022 Jelson Connection	38	99.613	-0.338	0.000	0.21																																																																																																																																																																
1.009	S8023	38	99.578	-0.247	0.000	0.54																																																																																																																																																																
1.010	S8025	39	99.389	-0.361	0.000	0.33																																																																																																																																																																
1.011	S8026	39	99.194	-0.446	0.000	0.15																																																																																																																																																																
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<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>44</td><td>102.170</td><td>-0.246</td><td>0.000</td><td>0.08</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>44</td><td>101.852</td><td>-0.237</td><td>0.000</td><td>0.10</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>44</td><td>101.604</td><td>-0.232</td><td>0.000</td><td>0.11</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>44</td><td>101.133</td><td>-0.388</td><td>0.000</td><td>0.05</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>44</td><td>100.881</td><td>-0.375</td><td>0.000</td><td>0.06</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>44</td><td>100.306</td><td>-0.360</td><td>0.000</td><td>0.09</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>44</td><td>99.967</td><td>-0.441</td><td>0.000</td><td>0.06</td></tr><tr><td>1.007</td><td>S8010</td><td>44</td><td>99.688</td><td>-0.407</td><td>0.000</td><td>0.12</td></tr><tr><td>1.008</td><td>S8011</td><td>45</td><td>99.580</td><td>-0.405</td><td>0.000</td><td>0.09</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>44</td><td>100.613</td><td>-0.242</td><td>0.000</td><td>0.08</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>44</td><td>100.226</td><td>-0.213</td><td>0.000</td><td>0.18</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>44</td><td>100.087</td><td>-0.199</td><td>0.000</td><td>0.44</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>44</td><td>100.073</td><td>-0.477</td><td>0.000</td><td>0.02</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>44</td><td>99.892</td><td>-0.451</td><td>0.000</td><td>0.04</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>44</td><td>99.832</td><td>-0.427</td><td>0.000</td><td>0.08</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>45</td><td>99.688</td><td>-0.362</td><td>0.000</td><td>0.14</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>45</td><td>99.662</td><td>-0.316</td><td>0.000</td><td>0.34</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>45</td><td>99.584</td><td>-0.367</td><td>0.000</td><td>0.17</td></tr><tr><td>1.009</td><td>S8023</td><td>45</td><td>99.541</td><td>-0.284</td><td>0.000</td><td>0.43</td></tr><tr><td>1.010</td><td>S8025</td><td>45</td><td>99.361</td><td>-0.389</td><td>0.000</td><td>0.27</td></tr><tr><td>1.011</td><td>S8026</td><td>45</td><td>99.178</td><td>-0.462</td><td>0.000</td><td>0.12</td></tr></table>								Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	44	102.170	-0.246	0.000	0.08	1.001	S8172 Jelson	44	101.852	-0.237	0.000	0.10	1.002	S8105 Jelson	44	101.604	-0.232	0.000	0.11	1.003	S8107 Jelson	44	101.133	-0.388	0.000	0.05	1.004	S8171 Jelson	44	100.881	-0.375	0.000	0.06	1.005	S8170 Jelson	44	100.306	-0.360	0.000	0.09	1.006	S8009 - Jelson Connection	44	99.967	-0.441	0.000	0.06	1.007	S8010	44	99.688	-0.407	0.000	0.12	1.008	S8011	45	99.580	-0.405	0.000	0.09	2.000	S8108 Jelson	44	100.613	-0.242	0.000	0.08	2.001	S8109 Jelson	44	100.226	-0.213	0.000	0.18	2.002	S8110 Jelson	44	100.087	-0.199	0.000	0.44	3.000	S8115 Jelson	44	100.073	-0.477	0.000	0.02	3.001	S8116 Jelson	44	99.892	-0.451	0.000	0.04	2.003	S8111 Jelson	44	99.832	-0.427	0.000	0.08	2.004	S8112 Jelson	45	99.688	-0.362	0.000	0.14	2.005	S8113 Jelson	45	99.662	-0.316	0.000	0.34	2.006	S8022 Jelson Connection	45	99.584	-0.367	0.000	0.17	1.009	S8023	45	99.541	-0.284	0.000	0.43	1.010	S8025	45	99.361	-0.389	0.000	0.27	1.011	S8026	45	99.178	-0.462	0.000	0.12
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			Water	Surcharged	Flooded																																																																																																																																																																	
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Ashby Road Measham Swadlincote DE12 7JP				
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		6.4	OK
1.001	S8172 Jelson		9.5	OK
1.002	S8105 Jelson		10.7	OK
1.003	S8107 Jelson		11.1	OK
1.004	S8171 Jelson		20.9	OK
1.005	S8170 Jelson		20.9	OK
1.006	S8009 - Jelson Connection		20.9	OK
1.007	S8010		23.2	OK
1.008	S8011		23.8	OK
2.000	S8108 Jelson		7.1	OK
2.001	S8109 Jelson		11.6	OK
2.002	S8110 Jelson		14.9	OK
3.000	S8115 Jelson	24	4.4	OK
3.001	S8116 Jelson		7.6	OK
2.003	S8111 Jelson		22.7	OK
2.004	S8112 Jelson		28.0	OK
2.005	S8113 Jelson		33.0	OK
2.006	S8022 Jelson Connection		38.4	OK
1.009	S8023		64.4	OK
1.010	S8025		72.1	OK
1.011	S8026		74.8	OK
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Innovyze		Network 2020.1.3													
<u>Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 8</u>															
<u>Simulation Criteria</u>															
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000												
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage 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 2												
Number of Online Controls		1	Number of Time/Area Diagrams 0												
Number of Offline Controls		0	Number of Real Time Controls 0												
<u>Synthetic Rainfall Details</u>															
Rainfall Model		FSR	Ratio R 0.400												
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													
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)					
			Level (m)	Depth (m)	Volume (m³)										
1.000	S8104 Jelson	55	102.157	-0.259	0.000	0.05									
1.001	S8172 Jelson	55	101.837	-0.252	0.000	0.06									
1.002	S8105 Jelson	55	101.588	-0.248	0.000	0.07									
1.003	S8107 Jelson	55	101.121	-0.400	0.000	0.03									
1.004	S8171 Jelson	55	100.864	-0.392	0.000	0.04									
1.005	S8170 Jelson	55	100.284	-0.382	0.000	0.05									
1.006	S8009 - Jelson Connection	55	99.949	-0.459	0.000	0.04									
1.007	S8010	55	99.663	-0.432	0.000	0.07									
1.008	S8011	55	99.545	-0.440	0.000	0.06									
2.000	S8108 Jelson	55	100.599	-0.256	0.000	0.05									
2.001	S8109 Jelson	55	100.206	-0.233	0.000	0.11									
2.002	S8110 Jelson	55	100.045	-0.241	0.000	0.28									
3.000	S8115 Jelson	55	100.054	-0.496	0.000	0.01									
3.001	S8116 Jelson	55	99.876	-0.467	0.000	0.03									
2.003	S8111 Jelson	55	99.808	-0.451	0.000	0.05									
2.004	S8112 Jelson	55	99.647	-0.403	0.000	0.09									
2.005	S8113 Jelson	55	99.616	-0.362	0.000	0.21									
2.006	S8022 Jelson Connection	55	99.542	-0.409	0.000	0.11									
1.009	S8023	55	99.487	-0.338	0.000	0.27									
1.010	S8025	55	99.316	-0.434	0.000	0.17									
1.011	S8026	55	99.150	-0.490	0.000	0.08									

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		4.8	OK
1.001	S8172 Jelson		7.1	OK
1.002	S8105 Jelson		8.0	OK
1.003	S8107 Jelson		8.4	OK
1.004	S8171 Jelson		15.7	OK
1.005	S8170 Jelson		15.7	OK
1.006	S8009 - Jelson Connection		15.7	OK
1.007	S8010		17.6	OK
1.008	S8011		18.2	OK
2.000	S8108 Jelson		5.3	OK
2.001	S8109 Jelson		8.7	OK
2.002	S8110 Jelson		11.2	OK
3.000	S8115 Jelson	36	3.3	OK
3.001	S8116 Jelson		5.7	OK
2.003	S8111 Jelson		17.1	OK
2.004	S8112 Jelson		21.2	OK
2.005	S8113 Jelson		25.1	OK
2.006	S8022 Jelson Connection		29.3	OK
1.009	S8023		48.5	OK
1.010	S8025		54.4	OK
1.011	S8026		56.3	OK
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Innovyze		Network 2020.1.3																																																																																																																																																																				
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<u>Simulation Criteria</u>																																																																																																																																																																						
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																	
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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		2																																																																																																																																																																	
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																	
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Ashby Road Measham Swadlincote DE12 7JP				
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...				Designed by d_southa Checked by
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 8</u>				

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<u>Simulation Criteria</u>														
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000											
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage 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 2											
Number of Online Controls		1	Number of Time/Area Diagrams 0											
Number of Offline Controls		0	Number of Real Time Controls 0											
<u>Synthetic Rainfall Details</u>														
Rainfall Model		FSR	Ratio R 0.400											
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												
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow</th></tr><tr><th>(m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>					PN	US/MH Name	Storm Rank	Water Level	Surcharged	Flooded	Flow / Overflow	(m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water Level	Surcharged				Flooded	Flow / Overflow					
			(m)	Depth (m)	Volume (m³)									
1.000	S8104 Jelson	63	102.151	-0.265	0.000	0.03								
1.001	S8172 Jelson	63	101.828	-0.261	0.000	0.04								
1.002	S8105 Jelson	63	101.579	-0.257	0.000	0.05								
1.003	S8107 Jelson	63	101.113	-0.408	0.000	0.02								
1.004	S8171 Jelson	63	100.856	-0.400	0.000	0.03								
1.005	S8170 Jelson	63	100.272	-0.394	0.000	0.04								
1.006	S8009 - Jelson Connection	63	99.939	-0.468	0.000	0.03								
1.007	S8010	63	99.645	-0.450	0.000	0.05								
1.008	S8011	63	99.528	-0.457	0.000	0.04								
2.000	S8108 Jelson	63	100.591	-0.264	0.000	0.04								
2.001	S8109 Jelson	63	100.195	-0.244	0.000	0.08								
2.002	S8110 Jelson	63	100.022	-0.264	0.000	0.19								
3.000	S8115 Jelson	63	100.045	-0.505	0.000	0.01								
3.001	S8116 Jelson	63	99.866	-0.477	0.000	0.02								
2.003	S8111 Jelson	63	99.796	-0.463	0.000	0.03								
2.004	S8112 Jelson	63	99.622	-0.428	0.000	0.06								
2.005	S8113 Jelson	63	99.586	-0.392	0.000	0.15								
2.006	S8022 Jelson Connection	63	99.520	-0.431	0.000	0.07								
1.009	S8023	63	99.454	-0.371	0.000	0.19								
1.010	S8025	63	99.286	-0.463	0.000	0.12								
1.011	S8026	63	99.129	-0.511	0.000	0.05								

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1.003	S8107 Jelson	65	101.108	-0.413	0.000	0.02																																																																																																																																																													
1.004	S8171 Jelson	65	100.853	-0.403	0.000	0.02																																																																																																																																																													
1.005	S8170 Jelson	65	100.269	-0.397	0.000	0.03																																																																																																																																																													
1.006	S8009 - Jelson Connection	65	99.937	-0.471	0.000	0.02																																																																																																																																																													
1.007	S8010	65	99.640	-0.455	0.000	0.04																																																																																																																																																													
1.008	S8011	65	99.524	-0.461	0.000	0.04																																																																																																																																																													
2.000	S8108 Jelson	65	100.589	-0.266	0.000	0.03																																																																																																																																																													
2.001	S8109 Jelson	65	100.190	-0.249	0.000	0.07																																																																																																																																																													
2.002	S8110 Jelson	65	100.014	-0.272	0.000	0.17																																																																																																																																																													
3.000	S8115 Jelson	65	100.043	-0.507	0.000	0.01																																																																																																																																																													
3.001	S8116 Jelson	65	99.860	-0.483	0.000	0.02																																																																																																																																																													
2.003	S8111 Jelson	65	99.793	-0.466	0.000	0.03																																																																																																																																																													
2.004	S8112 Jelson	65	99.614	-0.436	0.000	0.05																																																																																																																																																													
2.005	S8113 Jelson	65	99.577	-0.401	0.000	0.13																																																																																																																																																													
2.006	S8022 Jelson Connection	65	99.513	-0.438	0.000	0.07																																																																																																																																																													
1.009	S8023	65	99.442	-0.383	0.000	0.17																																																																																																																																																													
1.010	S8025	65	99.278	-0.472	0.000	0.10																																																																																																																																																													
1.011	S8026	65	99.123	-0.517	0.000	0.05																																																																																																																																																													
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Bloor Homes			Page 33	
Ashby Road Measham Swadlincote DE12 7JP				
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.9	OK
1.001	S8172 Jelson		4.3	OK
1.002	S8105 Jelson		4.9	OK
1.003	S8107 Jelson		5.0	OK
1.004	S8171 Jelson		9.5	OK
1.005	S8170 Jelson		9.5	OK
1.006	S8009 - Jelson Connection		9.5	OK
1.007	S8010		10.6	OK
1.008	S8011		11.0	OK
2.000	S8108 Jelson		3.2	OK
2.001	S8109 Jelson		5.3	OK
2.002	S8110 Jelson		6.8	OK
3.000	S8115 Jelson	48	2.0	OK
3.001	S8116 Jelson		3.4	OK
2.003	S8111 Jelson		10.3	OK
2.004	S8112 Jelson		12.8	OK
2.005	S8113 Jelson		15.2	OK
2.006	S8022 Jelson Connection		17.8	OK
1.009	S8023		29.6	OK
1.010	S8025		33.3	OK
1.011	S8026		34.6	OK
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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																				
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Innovyze		Network 2020.1.3																																																																																																																																																																		
<u>Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 8</u>																																																																																																																																																																				
<u>Simulation Criteria</u>																																																																																																																																																																				
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow			0.000																																																																																																																																																														
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage			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		2																																																																																																																																																															
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																															
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																															
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Rainfall Model		FSR	Ratio R		0.400																																																																																																																																																															
Region England and Wales		Cv (Summer)	0.750																																																																																																																																																																	
M5-60 (mm)		20.000	Cv (Winter)		0.840																																																																																																																																																															
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																		
Climate Change (%)		0, 0, 40																																																																																																																																																																		
<table><thead><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Cap.</th><th>(l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>68</td><td>102.147</td><td>-0.269</td><td>0.000</td><td>0.02</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>68</td><td>101.823</td><td>-0.266</td><td>0.000</td><td>0.03</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>68</td><td>101.572</td><td>-0.264</td><td>0.000</td><td>0.03</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>68</td><td>101.101</td><td>-0.420</td><td>0.000</td><td>0.01</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>68</td><td>100.848</td><td>-0.408</td><td>0.000</td><td>0.02</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>68</td><td>100.265</td><td>-0.401</td><td>0.000</td><td>0.03</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>68</td><td>99.929</td><td>-0.478</td><td>0.000</td><td>0.02</td></tr><tr><td>1.007</td><td>S8010</td><td>68</td><td>99.634</td><td>-0.461</td><td>0.000</td><td>0.04</td></tr><tr><td>1.008</td><td>S8011</td><td>68</td><td>99.519</td><td>-0.466</td><td>0.000</td><td>0.03</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>68</td><td>100.587</td><td>-0.268</td><td>0.000</td><td>0.03</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>68</td><td>100.185</td><td>-0.254</td><td>0.000</td><td>0.06</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>68</td><td>100.003</td><td>-0.283</td><td>0.000</td><td>0.14</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>68</td><td>100.039</td><td>-0.511</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>68</td><td>99.853</td><td>-0.490</td><td>0.000</td><td>0.01</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>68</td><td>99.789</td><td>-0.470</td><td>0.000</td><td>0.02</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>68</td><td>99.603</td><td>-0.447</td><td>0.000</td><td>0.04</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>68</td><td>99.565</td><td>-0.413</td><td>0.000</td><td>0.10</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>68</td><td>99.503</td><td>-0.448</td><td>0.000</td><td>0.05</td></tr><tr><td>1.009</td><td>S8023</td><td>68</td><td>99.427</td><td>-0.398</td><td>0.000</td><td>0.13</td></tr><tr><td>1.010</td><td>S8025</td><td>68</td><td>99.266</td><td>-0.484</td><td>0.000</td><td>0.08</td></tr><tr><td>1.011</td><td>S8026</td><td>68</td><td>99.115</td><td>-0.525</td><td>0.000</td><td>0.04</td></tr></tbody></table>						PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow	Level (m)	Depth (m)	Volume (m³)	Cap.	(l/s)	1.000	S8104 Jelson	68	102.147	-0.269	0.000	0.02	1.001	S8172 Jelson	68	101.823	-0.266	0.000	0.03	1.002	S8105 Jelson	68	101.572	-0.264	0.000	0.03	1.003	S8107 Jelson	68	101.101	-0.420	0.000	0.01	1.004	S8171 Jelson	68	100.848	-0.408	0.000	0.02	1.005	S8170 Jelson	68	100.265	-0.401	0.000	0.03	1.006	S8009 - Jelson Connection	68	99.929	-0.478	0.000	0.02	1.007	S8010	68	99.634	-0.461	0.000	0.04	1.008	S8011	68	99.519	-0.466	0.000	0.03	2.000	S8108 Jelson	68	100.587	-0.268	0.000	0.03	2.001	S8109 Jelson	68	100.185	-0.254	0.000	0.06	2.002	S8110 Jelson	68	100.003	-0.283	0.000	0.14	3.000	S8115 Jelson	68	100.039	-0.511	0.000	0.01	3.001	S8116 Jelson	68	99.853	-0.490	0.000	0.01	2.003	S8111 Jelson	68	99.789	-0.470	0.000	0.02	2.004	S8112 Jelson	68	99.603	-0.447	0.000	0.04	2.005	S8113 Jelson	68	99.565	-0.413	0.000	0.10	2.006	S8022 Jelson Connection	68	99.503	-0.448	0.000	0.05	1.009	S8023	68	99.427	-0.398	0.000	0.13	1.010	S8025	68	99.266	-0.484	0.000	0.08	1.011	S8026	68	99.115	-0.525	0.000	0.04
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																				
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Ashby Road Measham Swadlincote DE12 7JP			
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by	
Innovyze		Network 2020.1.3	
<u>Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 8</u>			
		Half Drain	Pipe
	US/MH	Time	Flow
PN	Name	(mins)	(l/s) Status
1.000	S8104 Jelson		1.7 OK
1.001	S8172 Jelson		2.6 OK
1.002	S8105 Jelson		2.9 OK
1.003	S8107 Jelson		3.0 OK
1.004	S8171 Jelson		5.7 OK
1.005	S8170 Jelson		5.7 OK
1.006	S8009 - Jelson Connection		5.7 OK
1.007	S8010		6.4 OK
1.008	S8011		6.7 OK
2.000	S8108 Jelson		1.9 OK
2.001	S8109 Jelson		3.2 OK
2.002	S8110 Jelson		4.1 OK
3.000	S8115 Jelson	120	1.2 OK
3.001	S8116 Jelson		2.1 OK
2.003	S8111 Jelson		6.2 OK
2.004	S8112 Jelson		7.7 OK
2.005	S8113 Jelson		9.2 OK
2.006	S8022 Jelson Connection		10.7 OK
1.009	S8023		17.9 OK
1.010	S8025		20.1 OK
1.011	S8026		20.9 OK
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<u>Simulation Criteria</u>																																																																																																																																																																					
Areal Reduction Factor 1.000		Additional Flow - % of Total Flow 0.000																																																																																																																																																																			
Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 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 2																																																																																																																																																																			
Number of Online Controls 1		Number of Time/Area Diagrams 0																																																																																																																																																																			
Number of Offline Controls 0		Number of Real Time Controls 0																																																																																																																																																																			
<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
Rainfall Model		FSR		Ratio R 0.400																																																																																																																																																																	
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																																																																																																																																																																			
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<u>Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		54.0	OK
1.001	S8172 Jelson		82.9	OK
1.002	S8105 Jelson		93.7	OK
1.003	S8107 Jelson		96.7	OK
1.004	S8171 Jelson		188.8	OK
1.005	S8170 Jelson		186.1	OK
1.006	S8009 - Jelson Connection		173.2	OK
1.007	S8010		183.2	SURCHARGED
1.008	S8011		188.8	SURCHARGED
2.000	S8108 Jelson		58.1	OK
2.001	S8109 Jelson		91.9	SURCHARGED
2.002	S8110 Jelson		116.1	SURCHARGED
3.000	S8115 Jelson	2	34.3	OK
3.001	S8116 Jelson		71.2	SURCHARGED
2.003	S8111 Jelson		172.8	SURCHARGED
2.004	S8112 Jelson		186.7	SURCHARGED
2.005	S8113 Jelson		197.1	SURCHARGED
2.006	S8022 Jelson Connection		210.0	SURCHARGED
1.009	S8023		391.5	SURCHARGED
1.010	S8025		423.9	SURCHARGED
1.011	S8026		435.5	OK
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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	9 99.219	-0.121	0.000	0.49		
1.012		S8028	9 99.177	0.083	0.000	1.37		
1.013		S8029	9 98.906	-0.064	0.000	0.81		
1.014		S8030	9 98.672	0.052	0.000	1.21		
1.015		S8031	10 98.287	-0.173	0.000	0.84		
1.016		S8034	20 97.796	-0.284	0.000	0.54		
1.017		S8037	28 97.279	-0.101	0.000	0.62		
1.018	S8039 - Headwall	28	97.251	0.336	0.000	2.77		
1.019	S8051 - Headwall	32	96.900	0.000	0.000	1.41		
1.020	S8052 Control Chamber	48	96.735	-0.065	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 33.1	OK
1.012		S8028 483.5	SURCHARGED
1.013		S8029 480.6	OK
1.014		S8030 486.0	SURCHARGED
1.015		S8031 492.0	OK
1.016		S8034 498.7	OK
1.017		S8037 492.4	OK
1.018	S8039 - Headwall	486.7	SURCHARGED*
1.019	S8051 - Headwall	488.4	SURCHARGED*
1.020	S8052 Control Chamber	10.7	OK

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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																						
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<u>Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 8</u>																																																																																																																																																																						
<u>Simulation Criteria</u>																																																																																																																																																																						
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																	
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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		2																																																																																																																																																																	
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																	
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																	
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Rainfall Model		FSR	Ratio R		0.400																																																																																																																																																																	
Region England and Wales Cv (Summer)		0.750																																																																																																																																																																				
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Margin for Flood Risk Warning (mm)		300.0	DVD Status		OFF																																																																																																																																																																	
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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																																																																																																																																																																				
<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>9</td><td>102.261</td><td>-0.155</td><td>0.000</td><td>0.47</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>9</td><td>101.965</td><td>-0.124</td><td>0.000</td><td>0.64</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>9</td><td>101.732</td><td>-0.104</td><td>0.000</td><td>0.74</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>9</td><td>101.240</td><td>-0.281</td><td>0.000</td><td>0.30</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>9</td><td>101.012</td><td>-0.244</td><td>0.000</td><td>0.42</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>9</td><td>100.462</td><td>-0.204</td><td>0.000</td><td>0.58</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>10</td><td>100.284</td><td>-0.124</td><td>0.000</td><td>0.38</td></tr><tr><td>1.007</td><td>S8010</td><td>10</td><td>100.249</td><td>0.154</td><td>0.000</td><td>0.68</td></tr><tr><td>1.008</td><td>S8011</td><td>10</td><td>100.202</td><td>0.217</td><td>0.000</td><td>0.55</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>9</td><td>100.710</td><td>-0.145</td><td>0.000</td><td>0.53</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>10</td><td>100.561</td><td>0.122</td><td>0.000</td><td>1.11</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>10</td><td>100.412</td><td>0.126</td><td>0.000</td><td>2.62</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>10</td><td>100.331</td><td>-0.219</td><td>0.000</td><td>0.11</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>10</td><td>100.332</td><td>-0.011</td><td>0.000</td><td>0.26</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>10</td><td>100.324</td><td>0.065</td><td>0.000</td><td>0.45</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>10</td><td>100.296</td><td>0.246</td><td>0.000</td><td>0.75</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>10</td><td>100.258</td><td>0.280</td><td>0.000</td><td>1.62</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>10</td><td>100.218</td><td>0.267</td><td>0.000</td><td>0.77</td></tr><tr><td>1.009</td><td>S8023</td><td>10</td><td>100.158</td><td>0.333</td><td>0.000</td><td>2.11</td></tr><tr><td>1.010</td><td>S8025</td><td>10</td><td>99.800</td><td>0.050</td><td>0.000</td><td>1.28</td></tr><tr><td>1.011</td><td>S8026</td><td>10</td><td>99.368</td><td>-0.272</td><td>0.000</td><td>0.57</td></tr></table>									Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	9	102.261	-0.155	0.000	0.47	1.001	S8172 Jelson	9	101.965	-0.124	0.000	0.64	1.002	S8105 Jelson	9	101.732	-0.104	0.000	0.74	1.003	S8107 Jelson	9	101.240	-0.281	0.000	0.30	1.004	S8171 Jelson	9	101.012	-0.244	0.000	0.42	1.005	S8170 Jelson	9	100.462	-0.204	0.000	0.58	1.006	S8009 - Jelson Connection	10	100.284	-0.124	0.000	0.38	1.007	S8010	10	100.249	0.154	0.000	0.68	1.008	S8011	10	100.202	0.217	0.000	0.55	2.000	S8108 Jelson	9	100.710	-0.145	0.000	0.53	2.001	S8109 Jelson	10	100.561	0.122	0.000	1.11	2.002	S8110 Jelson	10	100.412	0.126	0.000	2.62	3.000	S8115 Jelson	10	100.331	-0.219	0.000	0.11	3.001	S8116 Jelson	10	100.332	-0.011	0.000	0.26	2.003	S8111 Jelson	10	100.324	0.065	0.000	0.45	2.004	S8112 Jelson	10	100.296	0.246	0.000	0.75	2.005	S8113 Jelson	10	100.258	0.280	0.000	1.62	2.006	S8022 Jelson Connection	10	100.218	0.267	0.000	0.77	1.009	S8023	10	100.158	0.333	0.000	2.11	1.010	S8025	10	99.800	0.050	0.000	1.28	1.011	S8026	10	99.368	-0.272	0.000	0.57
			Water	Surcharged	Flooded																																																																																																																																																																	
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<u>Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		49.0	OK
1.001	S8172 Jelson		73.7	OK
1.002	S8105 Jelson		83.6	OK
1.003	S8107 Jelson		87.0	OK
1.004	S8171 Jelson		164.7	OK
1.005	S8170 Jelson		165.0	OK
1.006	S8009 - Jelson Connection		155.1	OK
1.007	S8010		165.9	SURCHARGED
1.008	S8011		169.8	SURCHARGED
2.000	S8108 Jelson		53.8	OK
2.001	S8109 Jelson		84.7	SURCHARGED
2.002	S8110 Jelson		105.9	SURCHARGED
3.000	S8115 Jelson	3	31.3	OK
3.001	S8116 Jelson		59.0	OK
2.003	S8111 Jelson		158.7	SURCHARGED
2.004	S8112 Jelson		176.7	SURCHARGED
2.005	S8113 Jelson		192.5	SURCHARGED
2.006	S8022 Jelson Connection		209.2	SURCHARGED
1.009	S8023		377.6	SURCHARGED
1.010	S8025		411.7	SURCHARGED
1.011	S8026		422.7	OK
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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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)
1.000	S8104 Jelson	12	102.237	-0.179	0.000	0.34
1.001	S8172 Jelson	12	101.933	-0.156	0.000	0.45
1.002	S8105 Jelson	12	101.694	-0.142	0.000	0.52
1.003	S8107 Jelson	12	101.214	-0.307	0.000	0.21
1.004	S8171 Jelson	12	100.979	-0.277	0.000	0.30
1.005	S8170 Jelson	12	100.421	-0.245	0.000	0.40
1.006	S8009 - Jelson Connection	13	100.093	-0.315	0.000	0.28
1.007	S8010	13	100.060	-0.035	0.000	0.52
1.008	S8011	13	100.023	0.038	0.000	0.42
2.000	S8108 Jelson	12	100.684	-0.171	0.000	0.37
2.001	S8109 Jelson	12	100.419	-0.020	0.000	0.84
2.002	S8110 Jelson	12	100.304	0.018	0.000	2.04
3.000	S8115 Jelson	13	100.168	-0.382	0.000	0.08
3.001	S8116 Jelson	13	100.141	-0.202	0.000	0.17
2.003	S8111 Jelson	13	100.132	-0.127	0.000	0.33
2.004	S8112 Jelson	13	100.105	0.055	0.000	0.58
2.005	S8113 Jelson	13	100.072	0.094	0.000	1.33
2.006	S8022 Jelson Connection	13	100.037	0.086	0.000	0.66
1.009	S8023	13	99.990	0.165	0.000	1.75
1.010	S8025	13	99.751	0.001	0.000	1.08
1.011	S8026	14	99.332	-0.308	0.000	0.48

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		35.0	OK
1.001	S8172 Jelson		52.2	OK
1.002	S8105 Jelson		58.4	OK
1.003	S8107 Jelson		60.7	OK
1.004	S8171 Jelson		116.4	OK
1.005	S8170 Jelson		114.6	OK
1.006	S8009 - Jelson Connection		115.3	OK
1.007	S8010		126.8	OK
1.008	S8011		128.8	SURCHARGED
2.000	S8108 Jelson		38.0	OK
2.001	S8109 Jelson		63.8	OK
2.002	S8110 Jelson		82.2	SURCHARGED
3.000	S8115 Jelson	8	23.4	OK
3.001	S8116 Jelson		39.2	OK
2.003	S8111 Jelson		115.0	OK
2.004	S8112 Jelson		136.9	SURCHARGED
2.005	S8113 Jelson		157.7	SURCHARGED
2.006	S8022 Jelson Connection		180.5	SURCHARGED
1.009	S8023		313.1	SURCHARGED
1.010	S8025		345.2	SURCHARGED
1.011	S8026		354.3	OK
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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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 / Cap.	Overflow (l/s)
1.000	S8104	Jelson	19 102.211	-0.205	0.000	0.22	
1.001	S8172	Jelson	18 101.900	-0.189	0.000	0.29	
1.002	S8105	Jelson	18 101.657	-0.179	0.000	0.34	
1.003	S8107	Jelson	18 101.181	-0.340	0.000	0.14	
1.004	S8171	Jelson	18 100.939	-0.317	0.000	0.19	
1.005	S8170	Jelson	18 100.372	-0.294	0.000	0.26	
1.006	S8009 -	Jelson Connection	18 100.034	-0.374	0.000	0.18	
1.007	S8010		18 99.893	-0.202	0.000	0.34	
1.008	S8011		18 99.867	-0.118	0.000	0.26	
2.000	S8108	Jelson	19 100.656	-0.199	0.000	0.25	
2.001	S8109	Jelson	18 100.334	-0.105	0.000	0.54	
2.002	S8110	Jelson	21 100.286	0.000	0.000	1.32	
3.000	S8115	Jelson	19 100.105	-0.445	0.000	0.06	
3.001	S8116	Jelson	18 99.988	-0.355	0.000	0.11	
2.003	S8111	Jelson	18 99.966	-0.293	0.000	0.22	
2.004	S8112	Jelson	18 99.946	-0.104	0.000	0.39	
2.005	S8113	Jelson	18 99.922	-0.056	0.000	0.92	
2.006	S8022	Jelson Connection	18 99.879	-0.072	0.000	0.47	
1.009	S8023		18 99.845	0.020	0.000	1.21	
1.010	S8025		18 99.550	-0.200	0.000	0.76	
1.011	S8026		18 99.284	-0.356	0.000	0.34	

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<u>Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 8</u>				

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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																																																																																																																																																																			
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<u>Synthetic Rainfall Details</u>																																																																																																																																																																					
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																																																																																																																																																																		
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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																																																																																																																																																																			
<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>25</td><td>102.199</td><td>-0.217</td><td>0.000</td><td>0.17</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>24</td><td>101.886</td><td>-0.203</td><td>0.000</td><td>0.23</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>24</td><td>101.641</td><td>-0.195</td><td>0.000</td><td>0.26</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>24</td><td>101.169</td><td>-0.352</td><td>0.000</td><td>0.11</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>24</td><td>100.922</td><td>-0.334</td><td>0.000</td><td>0.15</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>24</td><td>100.354</td><td>-0.312</td><td>0.000</td><td>0.20</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>24</td><td>100.015</td><td>-0.393</td><td>0.000</td><td>0.14</td></tr><tr><td>1.007</td><td>S8010</td><td>23</td><td>99.788</td><td>-0.307</td><td>0.000</td><td>0.26</td></tr><tr><td>1.008</td><td>S8011</td><td>23</td><td>99.732</td><td>-0.253</td><td>0.000</td><td>0.22</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>25</td><td>100.644</td><td>-0.211</td><td>0.000</td><td>0.19</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>24</td><td>100.287</td><td>-0.152</td><td>0.000</td><td>0.42</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>24</td><td>100.240</td><td>-0.046</td><td>0.000</td><td>1.00</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>25</td><td>100.095</td><td>-0.455</td><td>0.000</td><td>0.04</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>24</td><td>99.937</td><td>-0.406</td><td>0.000</td><td>0.09</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>24</td><td>99.882</td><td>-0.377</td><td>0.000</td><td>0.18</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>23</td><td>99.821</td><td>-0.229</td><td>0.000</td><td>0.32</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>23</td><td>99.801</td><td>-0.177</td><td>0.000</td><td>0.76</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>23</td><td>99.741</td><td>-0.210</td><td>0.000</td><td>0.39</td></tr><tr><td>1.009</td><td>S8023</td><td>23</td><td>99.714</td><td>-0.111</td><td>0.000</td><td>0.98</td></tr><tr><td>1.010</td><td>S8025</td><td>22</td><td>99.490</td><td>-0.260</td><td>0.000</td><td>0.61</td></tr><tr><td>1.011</td><td>S8026</td><td>22</td><td>99.254</td><td>-0.386</td><td>0.000</td><td>0.27</td></tr></table>								Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	25	102.199	-0.217	0.000	0.17	1.001	S8172 Jelson	24	101.886	-0.203	0.000	0.23	1.002	S8105 Jelson	24	101.641	-0.195	0.000	0.26	1.003	S8107 Jelson	24	101.169	-0.352	0.000	0.11	1.004	S8171 Jelson	24	100.922	-0.334	0.000	0.15	1.005	S8170 Jelson	24	100.354	-0.312	0.000	0.20	1.006	S8009 - Jelson Connection	24	100.015	-0.393	0.000	0.14	1.007	S8010	23	99.788	-0.307	0.000	0.26	1.008	S8011	23	99.732	-0.253	0.000	0.22	2.000	S8108 Jelson	25	100.644	-0.211	0.000	0.19	2.001	S8109 Jelson	24	100.287	-0.152	0.000	0.42	2.002	S8110 Jelson	24	100.240	-0.046	0.000	1.00	3.000	S8115 Jelson	25	100.095	-0.455	0.000	0.04	3.001	S8116 Jelson	24	99.937	-0.406	0.000	0.09	2.003	S8111 Jelson	24	99.882	-0.377	0.000	0.18	2.004	S8112 Jelson	23	99.821	-0.229	0.000	0.32	2.005	S8113 Jelson	23	99.801	-0.177	0.000	0.76	2.006	S8022 Jelson Connection	23	99.741	-0.210	0.000	0.39	1.009	S8023	23	99.714	-0.111	0.000	0.98	1.010	S8025	22	99.490	-0.260	0.000	0.61	1.011	S8026	22	99.254	-0.386	0.000	0.27
			Water	Surcharged	Flooded																																																																																																																																																																
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3.001	S8116 Jelson	24	99.937	-0.406	0.000	0.09																																																																																																																																																															
2.003	S8111 Jelson	24	99.882	-0.377	0.000	0.18																																																																																																																																																															
2.004	S8112 Jelson	23	99.821	-0.229	0.000	0.32																																																																																																																																																															
2.005	S8113 Jelson	23	99.801	-0.177	0.000	0.76																																																																																																																																																															
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1.010	S8025	22	99.490	-0.260	0.000	0.61																																																																																																																																																															
1.011	S8026	22	99.254	-0.386	0.000	0.27																																																																																																																																																															
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<u>Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		17.9	OK
1.001	S8172 Jelson		26.5	OK
1.002	S8105 Jelson		29.8	OK
1.003	S8107 Jelson		30.8	OK
1.004	S8171 Jelson		58.3	OK
1.005	S8170 Jelson		58.0	OK
1.006	S8009 - Jelson Connection		57.7	OK
1.007	S8010		64.0	OK
1.008	S8011		66.5	OK
2.000	S8108 Jelson		19.7	OK
2.001	S8109 Jelson		32.2	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	27	12.3	OK
3.001	S8116 Jelson		21.0	OK
2.003	S8111 Jelson		61.7	OK
2.004	S8112 Jelson		76.2	OK
2.005	S8113 Jelson		90.5	OK
2.006	S8022 Jelson Connection		105.3	OK
1.009	S8023		175.8	OK
1.010	S8025		195.0	OK
1.011	S8026		201.0	OK
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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	25 99.122	-0.218	0.000	0.16		
1.012		S8028	22 98.848	-0.246	0.000	0.64		
1.013		S8029	22 98.631	-0.339	0.000	0.39		
1.014		S8030	22 98.351	-0.269	0.000	0.58		
1.015		S8031	22 98.127	-0.333	0.000	0.41		
1.016		S8034	32 97.692	-0.388	0.000	0.27		
1.017		S8037	45 97.081	-0.299	0.000	0.32		
1.018	S8039 - Headwall	45	97.080	0.165	0.000	1.51		
1.019	S8051 - Headwall	36	96.900	0.000	0.000	0.75		
1.020	S8052 Control Chamber	38	97.077	0.277	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 11.2	OK
1.012		S8028 226.5	OK
1.013		S8029 230.0	OK
1.014		S8030 233.6	OK
1.015		S8031 239.1	OK
1.016		S8034 249.0	OK
1.017		S8037 257.5	OK
1.018	S8039 - Headwall	265.3	SURCHARGED*
1.019	S8051 - Headwall	262.0	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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 / Cap.	Overflow (l/s)
1.000	S8104	Jelson	29 102.190	-0.226	0.000	0.14	
1.001	S8172	Jelson	29 101.876	-0.213	0.000	0.19	
1.002	S8105	Jelson	29 101.630	-0.206	0.000	0.21	
1.003	S8107	Jelson	28 101.160	-0.361	0.000	0.09	
1.004	S8171	Jelson	28 100.910	-0.346	0.000	0.12	
1.005	S8170	Jelson	28 100.338	-0.328	0.000	0.17	
1.006	S8009 -	Jelson Connection	28 100.001	-0.407	0.000	0.12	
1.007	S8010		28 99.751	-0.344	0.000	0.22	
1.008	S8011		28 99.679	-0.306	0.000	0.18	
2.000	S8108	Jelson	29 100.634	-0.221	0.000	0.16	
2.001	S8109	Jelson	29 100.261	-0.178	0.000	0.34	
2.002	S8110	Jelson	28 100.175	-0.111	0.000	0.84	
3.000	S8115	Jelson	29 100.089	-0.461	0.000	0.04	
3.001	S8116	Jelson	28 99.925	-0.418	0.000	0.08	
2.003	S8111	Jelson	28 99.868	-0.391	0.000	0.15	
2.004	S8112	Jelson	28 99.777	-0.273	0.000	0.27	
2.005	S8113	Jelson	28 99.758	-0.220	0.000	0.63	
2.006	S8022	Jelson Connection	28 99.688	-0.263	0.000	0.32	
1.009	S8023		28 99.664	-0.161	0.000	0.81	
1.010	S8025		29 99.454	-0.296	0.000	0.50	
1.011	S8026		29 99.234	-0.406	0.000	0.23	

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	29 99.113	-0.227	0.000	0.13		
1.012		S8028	29 98.810	-0.284	0.000	0.53		
1.013		S8029	29 98.606	-0.364	0.000	0.32		
1.014		S8030	29 98.317	-0.303	0.000	0.49		
1.015		S8031	29 98.102	-0.358	0.000	0.34		
1.016		S8034	38 97.673	-0.407	0.000	0.23		
1.017		S8037	43 97.102	-0.278	0.000	0.27		
1.018	S8039 - Headwall	43	97.102	0.187	0.000	1.27		
1.019	S8051 - Headwall	37	96.900	0.000	0.000	0.63		
1.020	S8052 Control Chamber	36	97.099	0.299	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 9.1	OK
1.012		S8028 188.8	OK
1.013		S8029 192.4	OK
1.014		S8030 194.7	OK
1.015		S8031 199.7	OK
1.016		S8034 208.4	OK
1.017		S8037 215.8	OK
1.018	S8039 - Headwall	222.9	SURCHARGED*
1.019	S8051 - Headwall	220.3	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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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																																																																																																																																																														
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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																																																																																																																																																														
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Profile(s)		Summer and Winter																																																																																																																																																																	
Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																																	
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Climate Change (%)		0, 0, 40																																																																																																																																																																	
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Bloor Homes		Page 61
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze		Network 2020.1.3

Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	37 99.103	-0.237	0.000	0.10		
1.012		S8028	37 98.759	-0.335	0.000	0.40		
1.013		S8029	37 98.571	-0.399	0.000	0.24		
1.014		S8030	37 98.271	-0.349	0.000	0.36		
1.015		S8031	37 98.066	-0.394	0.000	0.25		
1.016		S8034	43 97.646	-0.434	0.000	0.17		
1.017		S8037	40 97.123	-0.257	0.000	0.20		
1.018	S8039 - Headwall	39	97.123	0.208	0.000	0.92		
1.019	S8051 - Headwall	38	96.900	0.000	0.000	0.46		
1.020	S8052 Control Chamber	32	97.120	0.320	0.000	0.02		

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	6.7	OK
1.012		S8028	141.8	OK
1.013		S8029	143.2	OK
1.014		S8030	144.8	OK
1.015		S8031	147.3	OK
1.016		S8034	154.0	OK
1.017		S8037	158.4	OK
1.018	S8039 - Headwall	161.9		SURCHARGED*
1.019	S8051 - Headwall	159.9		SURCHARGED*
1.020	S8052 Control Chamber	10.7		SURCHARGED

Bloor Homes			Page 62																																																																																																																																																																
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1.008	S8011	41	99.592	-0.393	0.000	0.11																																																																																																																																																													
2.000	S8108 Jelson	41	100.616	-0.239	0.000	0.09																																																																																																																																																													
2.001	S8109 Jelson	41	100.230	-0.209	0.000	0.20																																																																																																																																																													
2.002	S8110 Jelson	41	100.097	-0.189	0.000	0.49																																																																																																																																																													
3.000	S8115 Jelson	41	100.076	-0.474	0.000	0.02																																																																																																																																																													
3.001	S8116 Jelson	41	99.896	-0.447	0.000	0.04																																																																																																																																																													
2.003	S8111 Jelson	41	99.837	-0.422	0.000	0.09																																																																																																																																																													
2.004	S8112 Jelson	41	99.699	-0.351	0.000	0.16																																																																																																																																																													
2.005	S8113 Jelson	41	99.675	-0.303	0.000	0.37																																																																																																																																																													
2.006	S8022 Jelson Connection	41	99.597	-0.354	0.000	0.19																																																																																																																																																													
1.009	S8023	41	99.558	-0.267	0.000	0.48																																																																																																																																																													
1.010	S8025	41	99.375	-0.375	0.000	0.30																																																																																																																																																													
1.011	S8026	41	99.187	-0.453	0.000	0.14																																																																																																																																																													
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PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume				Flow / Overflow																																																																																																																																																										
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1.000	S8104 Jelson	54	102.158	-0.258	0.000	0.05																																																																																																																																																													
1.001	S8172 Jelson	54	101.838	-0.251	0.000	0.06																																																																																																																																																													
1.002	S8105 Jelson	54	101.589	-0.247	0.000	0.07																																																																																																																																																													
1.003	S8107 Jelson	54	101.122	-0.399	0.000	0.03																																																																																																																																																													
1.004	S8171 Jelson	54	100.865	-0.391	0.000	0.04																																																																																																																																																													
1.005	S8170 Jelson	54	100.285	-0.381	0.000	0.06																																																																																																																																																													
1.006	S8009 - Jelson Connection	54	99.950	-0.458	0.000	0.04																																																																																																																																																													
1.007	S8010	54	99.664	-0.431	0.000	0.07																																																																																																																																																													
1.008	S8011	54	99.547	-0.438	0.000	0.06																																																																																																																																																													
2.000	S8108 Jelson	54	100.599	-0.256	0.000	0.05																																																																																																																																																													
2.001	S8109 Jelson	54	100.207	-0.232	0.000	0.12																																																																																																																																																													
2.002	S8110 Jelson	54	100.047	-0.239	0.000	0.29																																																																																																																																																													
3.000	S8115 Jelson	54	100.055	-0.495	0.000	0.01																																																																																																																																																													
3.001	S8116 Jelson	54	99.877	-0.466	0.000	0.03																																																																																																																																																													
2.003	S8111 Jelson	54	99.809	-0.450	0.000	0.05																																																																																																																																																													
2.004	S8112 Jelson	54	99.648	-0.402	0.000	0.09																																																																																																																																																													
2.005	S8113 Jelson	54	99.618	-0.360	0.000	0.22																																																																																																																																																													
2.006	S8022 Jelson Connection	54	99.544	-0.407	0.000	0.11																																																																																																																																																													
1.009	S8023	54	99.489	-0.336	0.000	0.28																																																																																																																																																													
1.010	S8025	54	99.318	-0.431	0.000	0.18																																																																																																																																																													
1.011	S8026	54	99.152	-0.488	0.000	0.08																																																																																																																																																													
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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																																																																																																																																																																				
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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																																																																																																																																																																				
<table><thead><tr><th></th><th></th><th></th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>61</td><td>102.152</td><td>-0.264</td><td>0.000</td><td>0.03</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>61</td><td>101.830</td><td>-0.259</td><td>0.000</td><td>0.05</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>61</td><td>101.580</td><td>-0.256</td><td>0.000</td><td>0.05</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>61</td><td>101.116</td><td>-0.405</td><td>0.000</td><td>0.02</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>61</td><td>100.857</td><td>-0.399</td><td>0.000</td><td>0.03</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>61</td><td>100.274</td><td>-0.392</td><td>0.000</td><td>0.04</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>61</td><td>99.941</td><td>-0.467</td><td>0.000</td><td>0.03</td></tr><tr><td>1.007</td><td>S8010</td><td>61</td><td>99.648</td><td>-0.447</td><td>0.000</td><td>0.05</td></tr><tr><td>1.008</td><td>S8011</td><td>61</td><td>99.531</td><td>-0.454</td><td>0.000</td><td>0.04</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>61</td><td>100.593</td><td>-0.262</td><td>0.000</td><td>0.04</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>61</td><td>100.198</td><td>-0.241</td><td>0.000</td><td>0.09</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>61</td><td>100.027</td><td>-0.259</td><td>0.000</td><td>0.21</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>61</td><td>100.047</td><td>-0.503</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>61</td><td>99.869</td><td>-0.474</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>61</td><td>99.799</td><td>-0.460</td><td>0.000</td><td>0.04</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>61</td><td>99.627</td><td>-0.423</td><td>0.000</td><td>0.07</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>61</td><td>99.592</td><td>-0.386</td><td>0.000</td><td>0.16</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>61</td><td>99.525</td><td>-0.426</td><td>0.000</td><td>0.08</td></tr><tr><td>1.009</td><td>S8023</td><td>61</td><td>99.461</td><td>-0.364</td><td>0.000</td><td>0.21</td></tr><tr><td>1.010</td><td>S8025</td><td>61</td><td>99.292</td><td>-0.458</td><td>0.000</td><td>0.13</td></tr><tr><td>1.011</td><td>S8026</td><td>61</td><td>99.133</td><td>-0.507</td><td>0.000</td><td>0.06</td></tr></tbody></table>									Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	PN	US/MH Name	Storm Rank	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	61	102.152	-0.264	0.000	0.03	1.001	S8172 Jelson	61	101.830	-0.259	0.000	0.05	1.002	S8105 Jelson	61	101.580	-0.256	0.000	0.05	1.003	S8107 Jelson	61	101.116	-0.405	0.000	0.02	1.004	S8171 Jelson	61	100.857	-0.399	0.000	0.03	1.005	S8170 Jelson	61	100.274	-0.392	0.000	0.04	1.006	S8009 - Jelson Connection	61	99.941	-0.467	0.000	0.03	1.007	S8010	61	99.648	-0.447	0.000	0.05	1.008	S8011	61	99.531	-0.454	0.000	0.04	2.000	S8108 Jelson	61	100.593	-0.262	0.000	0.04	2.001	S8109 Jelson	61	100.198	-0.241	0.000	0.09	2.002	S8110 Jelson	61	100.027	-0.259	0.000	0.21	3.000	S8115 Jelson	61	100.047	-0.503	0.000	0.01	3.001	S8116 Jelson	61	99.869	-0.474	0.000	0.02	2.003	S8111 Jelson	61	99.799	-0.460	0.000	0.04	2.004	S8112 Jelson	61	99.627	-0.423	0.000	0.07	2.005	S8113 Jelson	61	99.592	-0.386	0.000	0.16	2.006	S8022 Jelson Connection	61	99.525	-0.426	0.000	0.08	1.009	S8023	61	99.461	-0.364	0.000	0.21	1.010	S8025	61	99.292	-0.458	0.000	0.13	1.011	S8026	61	99.133	-0.507	0.000	0.06
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2.002	S8110 Jelson	61	100.027	-0.259	0.000	0.21																																																																																																																																																																
3.000	S8115 Jelson	61	100.047	-0.503	0.000	0.01																																																																																																																																																																
3.001	S8116 Jelson	61	99.869	-0.474	0.000	0.02																																																																																																																																																																
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<u>Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 8</u>				

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	2	103.214	0.798	0.000	0.87
1.001	S8172 Jelson	2	102.999	0.910	0.000	1.14
1.002	S8105 Jelson	2	102.728	0.892	0.000	1.28
1.003	S8107 Jelson	2	102.310	0.789	0.000	0.53
1.004	S8171 Jelson	2	102.264	1.008	0.000	0.72
1.005	S8170 Jelson	2	102.010	1.344	0.000	0.84
1.006	S8009 - Jelson Connection	2	101.819	1.411	0.000	0.60
1.007	S8010	2	101.751	1.656	0.000	1.11
1.008	S8011	2	101.629	1.644	0.000	0.93
2.000	S8108 Jelson	2	102.562	1.707	1.859	0.98
2.001	S8109 Jelson	2	102.300	1.861	0.343	1.98
2.002	S8110 Jelson	2	101.847	1.561	0.000	4.78
3.000	S8115 Jelson	4	101.139	0.589	0.000	0.71
3.001	S8116 Jelson	2	101.357	1.014	0.000	0.93
2.003	S8111 Jelson	2	101.540	1.281	0.000	0.70
2.004	S8112 Jelson	2	101.584	1.534	0.000	1.06
2.005	S8113 Jelson	2	101.591	1.613	0.000	2.15
2.006	S8022 Jelson Connection	2	101.576	1.625	0.000	1.17

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<u>Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		90.2	SURCHARGED
1.001	S8172 Jelson		132.1	SURCHARGED
1.002	S8105 Jelson		144.0	SURCHARGED
1.003	S8107 Jelson		152.7	SURCHARGED
1.004	S8171 Jelson		280.7	SURCHARGED
1.005	S8170 Jelson		240.3	FLOOD RISK
1.006	S8009 - Jelson Connection		243.4	FLOOD RISK
1.007	S8010		269.2	FLOOD RISK
1.008	S8011		285.4	SURCHARGED
2.000	S8108 Jelson		100.2	FLOOD
2.001	S8109 Jelson		150.9	FLOOD
2.002	S8110 Jelson		192.8	SURCHARGED
3.000	S8115 Jelson	6	199.2	FLOOD RISK
3.001	S8116 Jelson		209.9	SURCHARGED
2.003	S8111 Jelson		246.5	SURCHARGED
2.004	S8112 Jelson		250.8	SURCHARGED
2.005	S8113 Jelson		256.0	SURCHARGED
2.006	S8022 Jelson Connection		318.9	SURCHARGED
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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)
1.009	S8023	2	101.538	1.713	0.000	2.83	
1.010	S8025	2	101.110	1.361	0.000	1.86	
1.011	S8026	4	100.750	1.110	0.000	0.83	
4.000	S8068	4	100.559	1.219	0.000	0.72	
1.012	S8028	4	100.445	1.350	0.000	1.99	
1.013	S8029	4	100.021	1.051	0.000	1.20	
1.014	S8030	4	99.574	0.954	0.000	1.79	
1.015	S8031	4	99.108	0.648	0.000	1.24	
1.016	S8034	4	98.549	0.469	0.000	0.79	
1.017	S8037	5	97.916	0.536	0.000	0.93	
1.018	S8039 - Headwall	24	97.334	0.419	0.000	4.16	
1.019	S8051 - Headwall	47	96.900	0.000	0.000	2.12	
1.020	S8052 Control Chamber	41	97.034	0.234	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009	S8023	505.6	SURCHARGED
1.010	S8025	597.1	SURCHARGED
1.011	S8026	610.8	SURCHARGED
4.000	S8068	49.4	FLOOD RISK
1.012	S8028	701.0	SURCHARGED
1.013	S8029	708.8	SURCHARGED
1.014	S8030	715.5	SURCHARGED
1.015	S8031	723.9	SURCHARGED
1.016	S8034	724.6	SURCHARGED
1.017	S8037	734.0	FLOOD RISK
1.018	S8039 - Headwall	732.8	SURCHARGED*
1.019	S8051 - Headwall	737.2	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	3	102.883	0.467	0.000	0.82
1.001	S8172 Jelson	3	102.702	0.613	0.000	1.03
1.002	S8105 Jelson	3	102.472	0.636	0.000	1.16
1.003	S8107 Jelson	3	102.107	0.586	0.000	0.50
1.004	S8171 Jelson	3	102.063	0.807	0.000	0.64
1.005	S8170 Jelson	3	101.856	1.190	0.000	0.78
1.006	S8009 - Jelson Connection	3	101.693	1.286	0.000	0.56
1.007	S8010	3	101.633	1.538	0.000	1.04
1.008	S8011	3	101.521	1.536	0.000	0.87
2.000	S8108 Jelson	3	102.560	1.705	0.026	0.88
2.001	S8109 Jelson	3	102.246	1.807	0.000	1.89
2.002	S8110 Jelson	3	101.721	1.435	0.000	4.48
3.000	S8115 Jelson	3	101.168	0.618	0.000	0.64
3.001	S8116 Jelson	4	101.296	0.953	0.000	0.83
2.003	S8111 Jelson	4	101.440	1.181	0.000	0.68
2.004	S8112 Jelson	3	101.470	1.420	0.000	1.07
2.005	S8113 Jelson	3	101.475	1.497	0.000	2.25
2.006	S8022 Jelson Connection	3	101.464	1.513	0.000	1.09

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		85.5	SURCHARGED
1.001	S8172 Jelson		119.5	SURCHARGED
1.002	S8105 Jelson		130.3	SURCHARGED
1.003	S8107 Jelson		143.8	SURCHARGED
1.004	S8171 Jelson		248.5	SURCHARGED
1.005	S8170 Jelson		224.3	SURCHARGED
1.006	S8009 - Jelson Connection		227.9	FLOOD RISK
1.007	S8010		252.4	FLOOD RISK
1.008	S8011		266.5	SURCHARGED
2.000	S8108 Jelson		89.7	FLOOD
2.001	S8109 Jelson		143.8	FLOOD RISK
2.002	S8110 Jelson		181.0	SURCHARGED
3.000	S8115 Jelson	7	179.1	FLOOD RISK
3.001	S8116 Jelson		187.5	SURCHARGED
2.003	S8111 Jelson		239.1	SURCHARGED
2.004	S8112 Jelson		253.4	SURCHARGED
2.005	S8113 Jelson		267.0	SURCHARGED
2.006	S8022 Jelson Connection		295.5	SURCHARGED
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Innovyze	Network 2020.1.3	

Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.009		S8023	3 101.435	1.610	0.000	2.75		
1.010		S8025	3 101.084	1.334	0.000	1.79		
1.011		S8026	2 100.805	1.165	0.000	0.80		
4.000		S8068	3 100.562	1.222	0.000	0.64		
1.012		S8028	3 100.493	1.399	0.000	1.96		
1.013		S8029	3 100.055	1.085	0.000	1.18		
1.014		S8030	3 99.614	0.994	0.000	1.75		
1.015		S8031	3 99.191	0.731	0.000	1.21		
1.016		S8034	3 98.676	0.596	0.000	0.80		
1.017		S8037	4 97.997	0.617	0.000	0.93		
1.018	S8039 - Headwall	23	97.334	0.419	0.000	4.31		
1.019	S8051 - Headwall	46	96.900	0.000	0.000	2.19		
1.020	S8052 Control Chamber	25	97.219	0.419	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009	S8023	490.8	SURCHARGED
1.010	S8025	573.1	SURCHARGED
1.011	S8026	589.6	SURCHARGED
4.000	S8068	43.5	FLOOD RISK
1.012	S8028	691.0	SURCHARGED
1.013	S8029	698.7	SURCHARGED
1.014	S8030	700.5	SURCHARGED
1.015	S8031	704.0	SURCHARGED
1.016	S8034	736.1	SURCHARGED
1.017	S8037	741.3	FLOOD RISK
1.018	S8039 - Headwall	758.3	SURCHARGED*
1.019	S8051 - Headwall	761.5	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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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		2																																																																																																																																																																	
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																	
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																	
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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																																																																																																																																																																	
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Climate Change (%)		0, 0, 40																																																																																																																																																																				
<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>5</td><td>102.290</td><td>-0.126</td><td>0.000</td><td>0.62</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>5</td><td>102.004</td><td>-0.085</td><td>0.000</td><td>0.83</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>5</td><td>101.789</td><td>-0.047</td><td>0.000</td><td>0.96</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>5</td><td>101.334</td><td>-0.187</td><td>0.000</td><td>0.38</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>5</td><td>101.297</td><td>0.041</td><td>0.000</td><td>0.55</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>5</td><td>101.167</td><td>0.501</td><td>0.000</td><td>0.65</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>5</td><td>101.066</td><td>0.659</td><td>0.000</td><td>0.46</td></tr><tr><td>1.007</td><td>S8010</td><td>5</td><td>101.023</td><td>0.928</td><td>0.000</td><td>0.84</td></tr><tr><td>1.008</td><td>S8011</td><td>5</td><td>100.950</td><td>0.965</td><td>0.000</td><td>0.69</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>5</td><td>101.665</td><td>0.810</td><td>0.000</td><td>0.65</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>5</td><td>101.488</td><td>1.049</td><td>0.000</td><td>1.43</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>5</td><td>101.180</td><td>0.894</td><td>0.000</td><td>3.44</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>5</td><td>100.921</td><td>0.371</td><td>0.000</td><td>0.47</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>5</td><td>100.952</td><td>0.609</td><td>0.000</td><td>0.67</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>5</td><td>101.011</td><td>0.752</td><td>0.000</td><td>0.61</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>5</td><td>101.000</td><td>0.950</td><td>0.000</td><td>0.98</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>5</td><td>100.976</td><td>0.998</td><td>0.000</td><td>2.11</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>5</td><td>100.944</td><td>0.993</td><td>0.000</td><td>0.99</td></tr><tr><td>1.009</td><td>S8023</td><td>5</td><td>100.895</td><td>1.070</td><td>0.000</td><td>2.52</td></tr><tr><td>1.010</td><td>S8025</td><td>5</td><td>100.492</td><td>0.742</td><td>0.000</td><td>1.64</td></tr><tr><td>1.011</td><td>S8026</td><td>5</td><td>100.223</td><td>0.583</td><td>0.000</td><td>0.74</td></tr></table>									Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	5	102.290	-0.126	0.000	0.62	1.001	S8172 Jelson	5	102.004	-0.085	0.000	0.83	1.002	S8105 Jelson	5	101.789	-0.047	0.000	0.96	1.003	S8107 Jelson	5	101.334	-0.187	0.000	0.38	1.004	S8171 Jelson	5	101.297	0.041	0.000	0.55	1.005	S8170 Jelson	5	101.167	0.501	0.000	0.65	1.006	S8009 - Jelson Connection	5	101.066	0.659	0.000	0.46	1.007	S8010	5	101.023	0.928	0.000	0.84	1.008	S8011	5	100.950	0.965	0.000	0.69	2.000	S8108 Jelson	5	101.665	0.810	0.000	0.65	2.001	S8109 Jelson	5	101.488	1.049	0.000	1.43	2.002	S8110 Jelson	5	101.180	0.894	0.000	3.44	3.000	S8115 Jelson	5	100.921	0.371	0.000	0.47	3.001	S8116 Jelson	5	100.952	0.609	0.000	0.67	2.003	S8111 Jelson	5	101.011	0.752	0.000	0.61	2.004	S8112 Jelson	5	101.000	0.950	0.000	0.98	2.005	S8113 Jelson	5	100.976	0.998	0.000	2.11	2.006	S8022 Jelson Connection	5	100.944	0.993	0.000	0.99	1.009	S8023	5	100.895	1.070	0.000	2.52	1.010	S8025	5	100.492	0.742	0.000	1.64	1.011	S8026	5	100.223	0.583	0.000	0.74
			Water	Surcharged	Flooded																																																																																																																																																																	
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<u>Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		64.4	OK
1.001	S8172 Jelson		95.9	OK
1.002	S8105 Jelson		107.6	OK
1.003	S8107 Jelson		111.1	OK
1.004	S8171 Jelson		213.3	SURCHARGED
1.005	S8170 Jelson		185.4	SURCHARGED
1.006	S8009 - Jelson Connection		186.6	SURCHARGED
1.007	S8010		205.5	SURCHARGED
1.008	S8011		212.6	SURCHARGED
2.000	S8108 Jelson		66.9	SURCHARGED
2.001	S8109 Jelson		109.2	SURCHARGED
2.002	S8110 Jelson		138.9	SURCHARGED
3.000	S8115 Jelson	8	133.4	SURCHARGED
3.001	S8116 Jelson		151.0	SURCHARGED
2.003	S8111 Jelson		214.5	SURCHARGED
2.004	S8112 Jelson		232.8	SURCHARGED
2.005	S8113 Jelson		250.6	SURCHARGED
2.006	S8022 Jelson Connection		268.9	SURCHARGED
1.009	S8023		450.0	SURCHARGED
1.010	S8025		525.6	SURCHARGED
1.011	S8026		545.1	SURCHARGED
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Innovyze		Network 2020.1.3

Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	5 99.993	0.653	0.000	0.50		
1.012		S8028	5 99.940	0.846	0.000	1.76		
1.013		S8029	5 99.559	0.589	0.000	1.05		
1.014		S8030	5 99.169	0.549	0.000	1.55		
1.015		S8031	5 98.815	0.355	0.000	1.09		
1.016		S8034	5 98.394	0.314	0.000	0.72		
1.017		S8037	14 97.848	0.468	0.000	0.85		
1.018	S8039 - Headwall	2	97.334	0.419	0.000	3.90		
1.019	S8051 - Headwall	44	96.900	0.000	0.000	2.00		
1.020	S8052 Control Chamber	20	97.390	0.590	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 34.3	SURCHARGED
1.012		S8028 621.6	SURCHARGED
1.013		S8029 623.5	SURCHARGED
1.014		S8030 619.6	SURCHARGED
1.015		S8031 636.4	SURCHARGED
1.016		S8034 662.4	SURCHARGED
1.017		S8037 675.5	SURCHARGED
1.018	S8039 - Headwall	685.9	SURCHARGED*
1.019	S8051 - Headwall	693.2	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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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																																																																																																																																																																				
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Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																	
<u>Synthetic Rainfall Details</u>																																																																																																																																																																						
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																																																																																																																																																																			
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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																																																																																																																																																																				
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©1982-2020 Innovyze																																																																																																																																																																						

Bloor Homes		Page 87
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		41.9	OK
1.001	S8172 Jelson		62.2	OK
1.002	S8105 Jelson		70.0	OK
1.003	S8107 Jelson		72.7	OK
1.004	S8171 Jelson		137.4	OK
1.005	S8170 Jelson		137.2	OK
1.006	S8009 - Jelson Connection		134.1	OK
1.007	S8010		147.4	SURCHARGED
1.008	S8011		151.7	SURCHARGED
2.000	S8108 Jelson		46.1	OK
2.001	S8109 Jelson		72.0	SURCHARGED
2.002	S8110 Jelson		92.6	SURCHARGED
3.000	S8115 Jelson	8	30.5	OK
3.001	S8116 Jelson		52.3	SURCHARGED
2.003	S8111 Jelson		141.2	SURCHARGED
2.004	S8112 Jelson		168.1	SURCHARGED
2.005	S8113 Jelson		193.7	SURCHARGED
2.006	S8022 Jelson Connection		222.5	SURCHARGED
1.009	S8023		382.4	SURCHARGED
1.010	S8025		426.6	SURCHARGED
1.011	S8026		445.2	OK

Bloor Homes			Page 89																																																																																																																																																																
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<u>Simulation Criteria</u>																																																																																																																																																																			
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																														
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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		2																																																																																																																																																														
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																														
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																														
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Margin for Flood Risk Warning (mm)		300.0	DVD Status		OFF																																																																																																																																																														
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2.004	S8112 Jelson	14	100.098	0.048	0.000	0.56																																																																																																																																																													
2.005	S8113 Jelson	14	100.064	0.086	0.000	1.32																																																																																																																																																													
2.006	S8022 Jelson Connection	14	100.028	0.077	0.000	0.67																																																																																																																																																													
1.009	S8023	14	99.980	0.155	0.000	1.75																																																																																																																																																													
1.010	S8025	14	99.750	0.000	0.000	1.09																																																																																																																																																													
1.011	S8026	13	99.338	-0.302	0.000	0.49																																																																																																																																																													
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Innovyze	Network 2020.1.3	

Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		32.9	OK
1.001	S8172 Jelson		48.6	OK
1.002	S8105 Jelson		54.6	OK
1.003	S8107 Jelson		56.5	OK
1.004	S8171 Jelson		106.9	OK
1.005	S8170 Jelson		106.4	OK
1.006	S8009 - Jelson Connection		105.6	OK
1.007	S8010		116.9	OK
1.008	S8011		121.2	SURCHARGED
2.000	S8108 Jelson		36.1	OK
2.001	S8109 Jelson		59.1	OK
2.002	S8110 Jelson		75.7	SURCHARGED
3.000	S8115 Jelson	15	22.3	OK
3.001	S8116 Jelson		37.0	OK
2.003	S8111 Jelson		109.1	OK
2.004	S8112 Jelson		133.5	SURCHARGED
2.005	S8113 Jelson		157.5	SURCHARGED
2.006	S8022 Jelson Connection		183.4	SURCHARGED
1.009	S8023		311.8	SURCHARGED
1.010	S8025		348.9	OK
1.011	S8026		360.8	OK

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Innovyze	Network 2020.1.3	

Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	13 99.161	-0.179	0.000	0.30		
1.012		S8028	13 99.109	0.015	0.000	1.15		
1.013		S8029	13 98.794	-0.176	0.000	0.69		
1.014		S8030	13 98.620	0.000	0.000	1.04		
1.015		S8031	13 98.244	-0.216	0.000	0.73		
1.016		S8034	21 97.792	-0.288	0.000	0.48		
1.017		S8037	24 97.623	0.243	0.000	0.57		
1.018	S8039 - Headwall	4	97.334	0.419	0.000	2.61		
1.019	S8051 - Headwall	31	96.900	0.000	0.000	1.33		
1.020	S8052 Control Chamber	17	97.617	0.817	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 20.4	OK
1.012		S8028 406.1	SURCHARGED
1.013		S8029 411.5	OK
1.014		S8030 417.6	OK
1.015		S8031 427.5	OK
1.016		S8034 444.0	OK
1.017		S8037 450.6	SURCHARGED
1.018	S8039 - Headwall	458.7	SURCHARGED*
1.019	S8051 - Headwall	460.1	SURCHARGED*
1.020	S8052 Control Chamber	10.8	SURCHARGED

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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		2																																																																																																																																																																	
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Margin for Flood Risk Warning (mm)		300.0	DVD Status		OFF																																																																																																																																																																	
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Climate Change (%)		0, 0, 40																																																																																																																																																																				
<table><thead><tr><th></th><th></th><th></th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>16</td><td>102.218</td><td>-0.198</td><td>0.000</td><td>0.25</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>16</td><td>101.909</td><td>-0.180</td><td>0.000</td><td>0.34</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>16</td><td>101.666</td><td>-0.170</td><td>0.000</td><td>0.39</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>16</td><td>101.190</td><td>-0.331</td><td>0.000</td><td>0.16</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>16</td><td>100.949</td><td>-0.307</td><td>0.000</td><td>0.22</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>16</td><td>100.385</td><td>-0.281</td><td>0.000</td><td>0.30</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>16</td><td>100.046</td><td>-0.362</td><td>0.000</td><td>0.21</td></tr><tr><td>1.007</td><td>S8010</td><td>16</td><td>99.950</td><td>-0.145</td><td>0.000</td><td>0.39</td></tr><tr><td>1.008</td><td>S8011</td><td>16</td><td>99.920</td><td>-0.065</td><td>0.000</td><td>0.32</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>16</td><td>100.664</td><td>-0.191</td><td>0.000</td><td>0.28</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>16</td><td>100.347</td><td>-0.092</td><td>0.000</td><td>0.63</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>20</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.53</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>16</td><td>100.122</td><td>-0.428</td><td>0.000</td><td>0.06</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>16</td><td>100.042</td><td>-0.301</td><td>0.000</td><td>0.14</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>16</td><td>100.031</td><td>-0.228</td><td>0.000</td><td>0.26</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>16</td><td>100.008</td><td>-0.042</td><td>0.000</td><td>0.48</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>17</td><td>99.978</td><td>0.000</td><td>0.000</td><td>1.14</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>16</td><td>99.935</td><td>-0.016</td><td>0.000</td><td>0.58</td></tr><tr><td>1.009</td><td>S8023</td><td>16</td><td>99.894</td><td>0.069</td><td>0.000</td><td>1.46</td></tr><tr><td>1.010</td><td>S8025</td><td>16</td><td>99.605</td><td>-0.144</td><td>0.000</td><td>0.92</td></tr><tr><td>1.011</td><td>S8026</td><td>16</td><td>99.309</td><td>-0.331</td><td>0.000</td><td>0.41</td></tr></tbody></table>									Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	PN	US/MH Name	Storm Rank	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	16	102.218	-0.198	0.000	0.25	1.001	S8172 Jelson	16	101.909	-0.180	0.000	0.34	1.002	S8105 Jelson	16	101.666	-0.170	0.000	0.39	1.003	S8107 Jelson	16	101.190	-0.331	0.000	0.16	1.004	S8171 Jelson	16	100.949	-0.307	0.000	0.22	1.005	S8170 Jelson	16	100.385	-0.281	0.000	0.30	1.006	S8009 - Jelson Connection	16	100.046	-0.362	0.000	0.21	1.007	S8010	16	99.950	-0.145	0.000	0.39	1.008	S8011	16	99.920	-0.065	0.000	0.32	2.000	S8108 Jelson	16	100.664	-0.191	0.000	0.28	2.001	S8109 Jelson	16	100.347	-0.092	0.000	0.63	2.002	S8110 Jelson	20	100.286	0.000	0.000	1.53	3.000	S8115 Jelson	16	100.122	-0.428	0.000	0.06	3.001	S8116 Jelson	16	100.042	-0.301	0.000	0.14	2.003	S8111 Jelson	16	100.031	-0.228	0.000	0.26	2.004	S8112 Jelson	16	100.008	-0.042	0.000	0.48	2.005	S8113 Jelson	17	99.978	0.000	0.000	1.14	2.006	S8022 Jelson Connection	16	99.935	-0.016	0.000	0.58	1.009	S8023	16	99.894	0.069	0.000	1.46	1.010	S8025	16	99.605	-0.144	0.000	0.92	1.011	S8026	16	99.309	-0.331	0.000	0.41
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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		26.4	OK
1.001	S8172 Jelson		39.2	OK
1.002	S8105 Jelson		44.1	OK
1.003	S8107 Jelson		45.8	OK
1.004	S8171 Jelson		86.5	OK
1.005	S8170 Jelson		86.4	OK
1.006	S8009 - Jelson Connection		86.4	OK
1.007	S8010		95.7	OK
1.008	S8011		97.7	OK
2.000	S8108 Jelson		29.0	OK
2.001	S8109 Jelson		47.9	OK
2.002	S8110 Jelson		61.7	OK
3.000	S8115 Jelson	36	18.1	OK
3.001	S8116 Jelson		30.5	OK
2.003	S8111 Jelson		92.9	OK
2.004	S8112 Jelson		114.7	OK
2.005	S8113 Jelson		135.3	OK
2.006	S8022 Jelson Connection		156.7	OK
1.009	S8023		260.6	SURCHARGED
1.010	S8025		293.5	OK
1.011	S8026		304.5	OK

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<u>Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 8</u>				

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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																																																																																																																																																															
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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																																																																																																																																																															
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Duration(s) (mins)		15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																																															
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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	32	102.186	-0.230	0.000	0.12	
1.001	S8172 Jelson	32	101.870	-0.219	0.000	0.16	
1.002	S8105 Jelson	32	101.624	-0.212	0.000	0.19	
1.003	S8107 Jelson	32	101.153	-0.368	0.000	0.08	
1.004	S8171 Jelson	32	100.904	-0.352	0.000	0.11	
1.005	S8170 Jelson	32	100.330	-0.336	0.000	0.15	
1.006	S8009 - Jelson Connection	32	99.995	-0.413	0.000	0.10	
1.007	S8010	32	99.735	-0.360	0.000	0.19	
1.008	S8011	32	99.655	-0.330	0.000	0.16	
2.000	S8108 Jelson	32	100.629	-0.226	0.000	0.14	
2.001	S8109 Jelson	32	100.252	-0.187	0.000	0.31	
2.002	S8110 Jelson	32	100.153	-0.133	0.000	0.75	
3.000	S8115 Jelson	32	100.085	-0.465	0.000	0.03	
3.001	S8116 Jelson	32	99.917	-0.426	0.000	0.07	
2.003	S8111 Jelson	32	99.859	-0.400	0.000	0.13	
2.004	S8112 Jelson	32	99.756	-0.294	0.000	0.24	
2.005	S8113 Jelson	32	99.736	-0.242	0.000	0.57	
2.006	S8022 Jelson Connection	32	99.663	-0.288	0.000	0.29	

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.009		S8023 32	99.636	-0.189	0.000	0.73		
1.010		S8025 32	99.435	-0.315	0.000	0.46		
1.011		S8026 32	99.224	-0.416	0.000	0.21		
4.000		S8068 32	99.108	-0.232	0.000	0.12		
1.012		S8028 31	98.791	-0.303	0.000	0.49		
1.013		S8029 31	98.593	-0.377	0.000	0.30		
1.014		S8030 31	98.300	-0.320	0.000	0.45		
1.015		S8031 31	98.090	-0.370	0.000	0.31		
1.016		S8034 15	97.849	-0.231	0.000	0.21		
1.017		S8037 1	98.200	0.820	0.958	0.25		
1.018	S8039 - Headwall	8	97.334	0.419	0.000	1.14		
1.019	S8051 - Headwall	2	96.900	0.000	0.000	0.58		
1.020	S8052 Control Chamber	9	97.746	0.946	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009	S8023	131.2	OK
1.010	S8025	147.4	OK
1.011	S8026	153.0	OK
4.000	S8068	8.1	OK
1.012	S8028	173.7	OK
1.013	S8029	176.4	OK
1.014	S8030	178.7	OK
1.015	S8031	183.1	OK
1.016	S8034	191.6	OK
1.017	S8037	196.5	FLOOD
1.018	S8039 - Headwall	200.6	SURCHARGED*
1.019	S8051 - Headwall	202.3	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	35	102.181	-0.235	0.000	0.11	
1.001	S8172 Jelson	35	101.864	-0.225	0.000	0.14	
1.002	S8105 Jelson	35	101.617	-0.219	0.000	0.17	
1.003	S8107 Jelson	35	101.146	-0.375	0.000	0.07	
1.004	S8171 Jelson	35	100.898	-0.358	0.000	0.09	
1.005	S8170 Jelson	35	100.322	-0.344	0.000	0.13	
1.006	S8009 - Jelson Connection	35	99.988	-0.420	0.000	0.09	
1.007	S8010	35	99.718	-0.377	0.000	0.17	
1.008	S8011	35	99.628	-0.357	0.000	0.14	
2.000	S8108 Jelson	35	100.624	-0.231	0.000	0.12	
2.001	S8109 Jelson	35	100.244	-0.195	0.000	0.27	
2.002	S8110 Jelson	35	100.130	-0.156	0.000	0.64	
3.000	S8115 Jelson	35	100.082	-0.468	0.000	0.03	
3.001	S8116 Jelson	35	99.909	-0.434	0.000	0.06	
2.003	S8111 Jelson	35	99.851	-0.408	0.000	0.11	
2.004	S8112 Jelson	35	99.734	-0.316	0.000	0.21	
2.005	S8113 Jelson	35	99.712	-0.266	0.000	0.49	
2.006	S8022 Jelson Connection	35	99.636	-0.315	0.000	0.25	

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.009		S8023 35	99.604	-0.221	0.000	0.64		
1.010		S8025 35	99.412	-0.338	0.000	0.40		
1.011		S8026 35	99.210	-0.430	0.000	0.18		
4.000		S8068 35	99.104	-0.236	0.000	0.10		
1.012		S8028 35	98.767	-0.327	0.000	0.43		
1.013		S8029 35	98.576	-0.394	0.000	0.26		
1.014		S8030 35	98.278	-0.342	0.000	0.39		
1.015		S8031 35	98.072	-0.388	0.000	0.27		
1.016		S8034 24	97.754	-0.326	0.000	0.18		
1.017		S8037 16	97.751	0.371	1.458	0.21		
1.018	S8039 - Headwall	9	97.334	0.419	0.000	0.99		
1.019	S8051 - Headwall	3	96.900	0.000	0.000	0.51		
1.020	S8052 Control Chamber	8	97.748	0.948	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009		S8023 113.5	OK
1.010		S8025 127.5	OK
1.011		S8026 132.4	OK
4.000		S8068 7.0	OK
1.012		S8028 150.3	OK
1.013		S8029 152.7	OK
1.014		S8030 154.7	OK
1.015		S8031 158.5	OK
1.016		S8034 165.9	OK
1.017		S8037 170.3	FLOOD
1.018	S8039 - Headwall	174.0	SURCHARGED*
1.019	S8051 - Headwall	175.5	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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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 2																																																																																																																																																																																									
Number of Online Controls		1	Number of Time/Area Diagrams 0																																																																																																																																																																																									
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<table><thead><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>49</td><td>102.164</td><td>-0.252</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>49</td><td>101.846</td><td>-0.243</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>49</td><td>101.598</td><td>-0.238</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>49</td><td>101.127</td><td>-0.394</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>49</td><td>100.873</td><td>-0.383</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>49</td><td>100.296</td><td>-0.370</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>49</td><td>99.959</td><td>-0.449</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>49</td><td>99.679</td><td>-0.416</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>49</td><td>99.567</td><td>-0.418</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>49</td><td>100.606</td><td>-0.249</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>49</td><td>100.217</td><td>-0.222</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>49</td><td>100.069</td><td>-0.217</td><td>0.000</td><td>0.37</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>49</td><td>100.064</td><td>-0.486</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>49</td><td>99.884</td><td>-0.459</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>49</td><td>99.821</td><td>-0.438</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>49</td><td>99.670</td><td>-0.380</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>49</td><td>99.642</td><td>-0.336</td><td>0.000</td><td>0.28</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>49</td><td>99.565</td><td>-0.386</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>48</td><td>99.519</td><td>-0.306</td><td>0.000</td><td>0.37</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>48</td><td>99.343</td><td>-0.407</td><td>0.000</td><td>0.23</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>48</td><td>99.168</td><td>-0.472</td><td>0.000</td><td>0.10</td><td></td></tr></tbody></table>								Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	1.000	S8104 Jelson	49	102.164	-0.252	0.000	0.06		1.001	S8172 Jelson	49	101.846	-0.243	0.000	0.08		1.002	S8105 Jelson	49	101.598	-0.238	0.000	0.09		1.003	S8107 Jelson	49	101.127	-0.394	0.000	0.04		1.004	S8171 Jelson	49	100.873	-0.383	0.000	0.05		1.005	S8170 Jelson	49	100.296	-0.370	0.000	0.07		1.006	S8009 - Jelson Connection	49	99.959	-0.449	0.000	0.05		1.007	S8010	49	99.679	-0.416	0.000	0.10		1.008	S8011	49	99.567	-0.418	0.000	0.08		2.000	S8108 Jelson	49	100.606	-0.249	0.000	0.07		2.001	S8109 Jelson	49	100.217	-0.222	0.000	0.15		2.002	S8110 Jelson	49	100.069	-0.217	0.000	0.37		3.000	S8115 Jelson	49	100.064	-0.486	0.000	0.02		3.001	S8116 Jelson	49	99.884	-0.459	0.000	0.03		2.003	S8111 Jelson	49	99.821	-0.438	0.000	0.06		2.004	S8112 Jelson	49	99.670	-0.380	0.000	0.12		2.005	S8113 Jelson	49	99.642	-0.336	0.000	0.28		2.006	S8022 Jelson Connection	49	99.565	-0.386	0.000	0.14		1.009	S8023	48	99.519	-0.306	0.000	0.37		1.010	S8025	48	99.343	-0.407	0.000	0.23		1.011	S8026	48	99.168	-0.472	0.000	0.10	
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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	49 99.087	-0.253	0.000	0.06		
1.012		S8028	48 98.694	-0.400	0.000	0.24		
1.013		S8029	48 98.523	-0.447	0.000	0.15		
1.014		S8030	48 98.211	-0.409	0.000	0.22		
1.015		S8031	48 98.017	-0.443	0.000	0.16		
1.016		S8034	33 97.685	-0.395	0.000	0.10		
1.017		S8037	22 97.682	0.302	0.000	0.12		
1.018	S8039 - Headwall	1	97.334	0.419	0.000	0.57		
1.019	S8051 - Headwall	1	96.900	0.000	0.000	0.29		
1.020	S8052 Control Chamber	14	97.679	0.879	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 4.0	OK
1.012		S8028 86.4	OK
1.013		S8029 87.7	OK
1.014		S8030 88.9	OK
1.015		S8031 91.1	OK
1.016		S8034 95.3	OK
1.017		S8037 97.9	SURCHARGED
1.018	S8039 - Headwall	100.1	SURCHARGED*
1.019	S8051 - Headwall	100.9	SURCHARGED*
1.020	S8052 Control Chamber	11.1	SURCHARGED

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<u>Simulation Criteria</u>																																																																																																																																																																						
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																	
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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																																																																																																																																																																				
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Margin for Flood Risk Warning (mm)		300.0	DVD Status		OFF																																																																																																																																																																	
Analysis Timestep		Fine	Inertia Status		OFF																																																																																																																																																																	
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Profile(s)		Summer and Winter																																																																																																																																																																				
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></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>18</td><td>102.212</td><td>-0.204</td><td>0.000</td><td>0.22</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>19</td><td>101.898</td><td>-0.191</td><td>0.000</td><td>0.28</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>19</td><td>101.654</td><td>-0.182</td><td>0.000</td><td>0.32</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>19</td><td>101.179</td><td>-0.342</td><td>0.000</td><td>0.13</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>19</td><td>100.932</td><td>-0.324</td><td>0.000</td><td>0.17</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>19</td><td>100.364</td><td>-0.302</td><td>0.000</td><td>0.24</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>19</td><td>100.025</td><td>-0.383</td><td>0.000</td><td>0.17</td></tr><tr><td>1.007</td><td>S8010</td><td>22</td><td>99.795</td><td>-0.300</td><td>0.000</td><td>0.30</td></tr><tr><td>1.008</td><td>S8011</td><td>22</td><td>99.747</td><td>-0.238</td><td>0.000</td><td>0.23</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>18</td><td>100.657</td><td>-0.198</td><td>0.000</td><td>0.25</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>19</td><td>100.330</td><td>-0.109</td><td>0.000</td><td>0.48</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>17</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.14</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>18</td><td>100.106</td><td>-0.444</td><td>0.000</td><td>0.06</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>21</td><td>99.945</td><td>-0.398</td><td>0.000</td><td>0.11</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>21</td><td>99.894</td><td>-0.365</td><td>0.000</td><td>0.20</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>21</td><td>99.835</td><td>-0.215</td><td>0.000</td><td>0.35</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>21</td><td>99.813</td><td>-0.165</td><td>0.000</td><td>0.81</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>22</td><td>99.757</td><td>-0.194</td><td>0.000</td><td>0.40</td></tr><tr><td>1.009</td><td>S8023</td><td>22</td><td>99.729</td><td>-0.096</td><td>0.000</td><td>0.99</td></tr><tr><td>1.010</td><td>S8025</td><td>23</td><td>99.486</td><td>-0.263</td><td>0.000</td><td>0.60</td></tr><tr><td>1.011</td><td>S8026</td><td>23</td><td>99.250</td><td>-0.390</td><td>0.000</td><td>0.27</td></tr></table>									Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	18	102.212	-0.204	0.000	0.22	1.001	S8172 Jelson	19	101.898	-0.191	0.000	0.28	1.002	S8105 Jelson	19	101.654	-0.182	0.000	0.32	1.003	S8107 Jelson	19	101.179	-0.342	0.000	0.13	1.004	S8171 Jelson	19	100.932	-0.324	0.000	0.17	1.005	S8170 Jelson	19	100.364	-0.302	0.000	0.24	1.006	S8009 - Jelson Connection	19	100.025	-0.383	0.000	0.17	1.007	S8010	22	99.795	-0.300	0.000	0.30	1.008	S8011	22	99.747	-0.238	0.000	0.23	2.000	S8108 Jelson	18	100.657	-0.198	0.000	0.25	2.001	S8109 Jelson	19	100.330	-0.109	0.000	0.48	2.002	S8110 Jelson	17	100.286	0.000	0.000	1.14	3.000	S8115 Jelson	18	100.106	-0.444	0.000	0.06	3.001	S8116 Jelson	21	99.945	-0.398	0.000	0.11	2.003	S8111 Jelson	21	99.894	-0.365	0.000	0.20	2.004	S8112 Jelson	21	99.835	-0.215	0.000	0.35	2.005	S8113 Jelson	21	99.813	-0.165	0.000	0.81	2.006	S8022 Jelson Connection	22	99.757	-0.194	0.000	0.40	1.009	S8023	22	99.729	-0.096	0.000	0.99	1.010	S8025	23	99.486	-0.263	0.000	0.60	1.011	S8026	23	99.250	-0.390	0.000	0.27
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Innovyze	Network 2020.1.3	

Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		23.0	OK
1.001	S8172 Jelson		32.4	OK
1.002	S8105 Jelson		36.5	OK
1.003	S8107 Jelson		37.9	OK
1.004	S8171 Jelson		67.8	OK
1.005	S8170 Jelson		67.8	OK
1.006	S8009 - Jelson Connection		67.7	OK
1.007	S8010		73.2	OK
1.008	S8011		69.1	OK
2.000	S8108 Jelson		25.1	OK
2.001	S8109 Jelson		36.9	OK
2.002	S8110 Jelson		46.2	OK
3.000	S8115 Jelson	6	15.7	OK
3.001	S8116 Jelson		24.4	OK
2.003	S8111 Jelson		69.1	OK
2.004	S8112 Jelson		83.3	OK
2.005	S8113 Jelson		96.3	OK
2.006	S8022 Jelson Connection		108.3	OK
1.009	S8023		176.7	OK
1.010	S8025		192.2	OK
1.011	S8026		197.1	OK

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Innovyze		Network 2020.1.3

Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	18 99.135	-0.205	0.000	0.22		
1.012		S8028	23 98.834	-0.260	0.000	0.61		
1.013		S8029	23 98.621	-0.349	0.000	0.37		
1.014		S8030	23 98.337	-0.283	0.000	0.55		
1.015		S8031	23 98.117	-0.343	0.000	0.38		
1.016		S8034	34 97.683	-0.397	0.000	0.25		
1.017		S8037	49 96.931	-0.449	0.000	0.30		
1.018	S8039 - Headwall	49	96.916	0.001	0.000	1.35		
1.019	S8051 - Headwall	52	96.666	-0.234	0.000	0.68		
1.020	S8052 Control Chamber	71	96.507	-0.293	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 14.8	OK
1.012		S8028 215.1	OK
1.013		S8029 217.7	OK
1.014		S8030 219.7	OK
1.015		S8031 222.5	OK
1.016		S8034 229.0	OK
1.017		S8037 233.9	OK
1.018	S8039 - Headwall	237.0	SURCHARGED*
1.019	S8051 - Headwall	237.3	OK*
1.020	S8052 Control Chamber	10.6	OK

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Climate Change (%)		0, 0, 40																																																																																																																																																																																					
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Bloor Homes		Page 120
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		12.0	OK
1.001	S8172 Jelson		17.8	OK
1.002	S8105 Jelson		20.1	OK
1.003	S8107 Jelson		20.9	OK
1.004	S8171 Jelson		39.1	OK
1.005	S8170 Jelson		39.1	OK
1.006	S8009 - Jelson Connection		39.1	OK
1.007	S8010		43.6	OK
1.008	S8011		44.7	OK
2.000	S8108 Jelson		13.2	OK
2.001	S8109 Jelson		21.8	OK
2.002	S8110 Jelson		27.8	OK
3.000	S8115 Jelson	14	8.3	OK
3.001	S8116 Jelson		14.2	OK
2.003	S8111 Jelson		42.2	OK
2.004	S8112 Jelson		52.1	OK
2.005	S8113 Jelson		61.7	OK
2.006	S8022 Jelson Connection		71.8	OK
1.009	S8023		118.6	OK
1.010	S8025		132.2	OK
1.011	S8026		137.1	OK

Bloor Homes			Page 122																																																																																																																																																																																				
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<u>Simulation Criteria</u>																																																																																																																																																																																							
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000																																																																																																																																																																																				
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage 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 2																																																																																																																																																																																				
Number of Online Controls		1	Number of Time/Area Diagrams 0																																																																																																																																																																																				
Number of Offline Controls		0	Number of Real Time Controls 0																																																																																																																																																																																				
<u>Synthetic Rainfall Details</u>																																																																																																																																																																																							
Rainfall Model		FSR	Ratio R 0.400																																																																																																																																																																																				
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																																																																																																																																																																																					
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2.006	S8022 Jelson Connection	44	99.585	-0.366	0.000	0.17																																																																																																																																																																																	
1.009	S8023	44	99.542	-0.283	0.000	0.43																																																																																																																																																																																	
1.010	S8025	44	99.361	-0.388	0.000	0.27																																																																																																																																																																																	
1.011	S8026	44	99.178	-0.462	0.000	0.12																																																																																																																																																																																	
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PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth				Flooded Volume	Flow / Overflow																																																																																																																																																									
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Bloor Homes		Page 126
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		5.8	OK
1.001	S8172 Jelson		8.7	OK
1.002	S8105 Jelson		9.8	OK
1.003	S8107 Jelson		10.1	OK
1.004	S8171 Jelson		19.1	OK
1.005	S8170 Jelson		19.1	OK
1.006	S8009 - Jelson Connection		19.1	OK
1.007	S8010		21.4	OK
1.008	S8011		22.2	OK
2.000	S8108 Jelson		6.4	OK
2.001	S8109 Jelson		10.6	OK
2.002	S8110 Jelson		13.6	OK
3.000	S8115 Jelson	30	4.0	OK
3.001	S8116 Jelson		6.9	OK
2.003	S8111 Jelson		20.8	OK
2.004	S8112 Jelson		25.8	OK
2.005	S8113 Jelson		30.5	OK
2.006	S8022 Jelson Connection		35.6	OK
1.009	S8023		59.3	OK
1.010	S8025		66.5	OK
1.011	S8026		69.1	OK

Bloor Homes			Page 128																																																																																																																																																																		
Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																					
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			Water	Surcharged	Flooded																																																																																																																																																																
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																															
1.000	S8104 Jelson	56	102.157	-0.259	0.000	0.05																																																																																																																																																															
1.001	S8172 Jelson	56	101.837	-0.252	0.000	0.06																																																																																																																																																															
1.002	S8105 Jelson	56	101.588	-0.248	0.000	0.07																																																																																																																																																															
1.003	S8107 Jelson	56	101.121	-0.400	0.000	0.03																																																																																																																																																															
1.004	S8171 Jelson	56	100.864	-0.392	0.000	0.04																																																																																																																																																															
1.005	S8170 Jelson	56	100.283	-0.383	0.000	0.05																																																																																																																																																															
1.006	S8009 - Jelson Connection	56	99.949	-0.459	0.000	0.04																																																																																																																																																															
1.007	S8010	56	99.662	-0.433	0.000	0.07																																																																																																																																																															
1.008	S8011	56	99.545	-0.440	0.000	0.06																																																																																																																																																															
2.000	S8108 Jelson	56	100.599	-0.256	0.000	0.05																																																																																																																																																															
2.001	S8109 Jelson	56	100.206	-0.233	0.000	0.11																																																																																																																																																															
2.002	S8110 Jelson	56	100.045	-0.241	0.000	0.28																																																																																																																																																															
3.000	S8115 Jelson	56	100.054	-0.496	0.000	0.01																																																																																																																																																															
3.001	S8116 Jelson	56	99.876	-0.467	0.000	0.03																																																																																																																																																															
2.003	S8111 Jelson	56	99.808	-0.451	0.000	0.05																																																																																																																																																															
2.004	S8112 Jelson	56	99.646	-0.404	0.000	0.09																																																																																																																																																															
2.005	S8113 Jelson	56	99.616	-0.362	0.000	0.21																																																																																																																																																															
2.006	S8022 Jelson Connection	56	99.541	-0.410	0.000	0.11																																																																																																																																																															
1.009	S8023	56	99.486	-0.339	0.000	0.27																																																																																																																																																															
1.010	S8025	56	99.315	-0.435	0.000	0.17																																																																																																																																																															
1.011	S8026	56	99.150	-0.490	0.000	0.08																																																																																																																																																															
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Bloor Homes		Page 129
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		4.8	OK
1.001	S8172 Jelson		7.1	OK
1.002	S8105 Jelson		8.0	OK
1.003	S8107 Jelson		8.3	OK
1.004	S8171 Jelson		15.7	OK
1.005	S8170 Jelson		15.7	OK
1.006	S8009 - Jelson Connection		15.7	OK
1.007	S8010		17.5	OK
1.008	S8011		18.1	OK
2.000	S8108 Jelson		5.3	OK
2.001	S8109 Jelson		8.7	OK
2.002	S8110 Jelson		11.2	OK
3.000	S8115 Jelson	36	3.3	OK
3.001	S8116 Jelson		5.7	OK
2.003	S8111 Jelson		17.1	OK
2.004	S8112 Jelson		21.1	OK
2.005	S8113 Jelson		25.0	OK
2.006	S8022 Jelson Connection		29.2	OK
1.009	S8023		48.8	OK
1.010	S8025		54.7	OK
1.011	S8026		56.8	OK

Bloor Homes			Page 131																																																																																																																																																																																				
Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																																							
Date 13/11/2025 10:52		Designed by d_southa																																																																																																																																																																																					
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<u>Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 8</u>																																																																																																																																																																																							
<u>Simulation Criteria</u>																																																																																																																																																																																							
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000																																																																																																																																																																																				
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage 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 2																																																																																																																																																																																				
Number of Online Controls		1	Number of Time/Area Diagrams 0																																																																																																																																																																																				
Number of Offline Controls		0	Number of Real Time Controls 0																																																																																																																																																																																				
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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																																																																																																																																																																																					
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>62</td><td>102.152</td><td>-0.264</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>62</td><td>101.830</td><td>-0.259</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>62</td><td>101.580</td><td>-0.256</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>62</td><td>101.116</td><td>-0.405</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>62</td><td>100.857</td><td>-0.399</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>62</td><td>100.274</td><td>-0.392</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>62</td><td>99.941</td><td>-0.467</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>62</td><td>99.648</td><td>-0.447</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>62</td><td>99.531</td><td>-0.454</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>62</td><td>100.593</td><td>-0.262</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>62</td><td>100.198</td><td>-0.241</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>62</td><td>100.026</td><td>-0.260</td><td>0.000</td><td>0.21</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>62</td><td>100.047</td><td>-0.503</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>62</td><td>99.869</td><td>-0.474</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>62</td><td>99.798</td><td>-0.461</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>62</td><td>99.627</td><td>-0.423</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>62</td><td>99.592</td><td>-0.386</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>62</td><td>99.525</td><td>-0.426</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>62</td><td>99.460</td><td>-0.365</td><td>0.000</td><td>0.20</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>62</td><td>99.292</td><td>-0.458</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>62</td><td>99.133</td><td>-0.507</td><td>0.000</td><td>0.06</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)	1.000	S8104 Jelson	62	102.152	-0.264	0.000	0.03		1.001	S8172 Jelson	62	101.830	-0.259	0.000	0.05		1.002	S8105 Jelson	62	101.580	-0.256	0.000	0.05		1.003	S8107 Jelson	62	101.116	-0.405	0.000	0.02		1.004	S8171 Jelson	62	100.857	-0.399	0.000	0.03		1.005	S8170 Jelson	62	100.274	-0.392	0.000	0.04		1.006	S8009 - Jelson Connection	62	99.941	-0.467	0.000	0.03		1.007	S8010	62	99.648	-0.447	0.000	0.05		1.008	S8011	62	99.531	-0.454	0.000	0.04		2.000	S8108 Jelson	62	100.593	-0.262	0.000	0.04		2.001	S8109 Jelson	62	100.198	-0.241	0.000	0.09		2.002	S8110 Jelson	62	100.026	-0.260	0.000	0.21		3.000	S8115 Jelson	62	100.047	-0.503	0.000	0.01		3.001	S8116 Jelson	62	99.869	-0.474	0.000	0.02		2.003	S8111 Jelson	62	99.798	-0.461	0.000	0.04		2.004	S8112 Jelson	62	99.627	-0.423	0.000	0.07		2.005	S8113 Jelson	62	99.592	-0.386	0.000	0.16		2.006	S8022 Jelson Connection	62	99.525	-0.426	0.000	0.08		1.009	S8023	62	99.460	-0.365	0.000	0.20		1.010	S8025	62	99.292	-0.458	0.000	0.13		1.011	S8026	62	99.133	-0.507	0.000	0.06	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																																										
Climate Change (%)		0, 0, 40																																																																																																																																																																																										
<table><thead><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Cap.</th><th>Overflow (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>64</td><td>102.149</td><td>-0.267</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>64</td><td>101.826</td><td>-0.263</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>64</td><td>101.576</td><td>-0.260</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>64</td><td>101.108</td><td>-0.413</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>64</td><td>100.853</td><td>-0.403</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>64</td><td>100.269</td><td>-0.397</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>64</td><td>99.937</td><td>-0.471</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>64</td><td>99.640</td><td>-0.455</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>64</td><td>99.524</td><td>-0.461</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>64</td><td>100.590</td><td>-0.265</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>64</td><td>100.190</td><td>-0.249</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>64</td><td>100.014</td><td>-0.272</td><td>0.000</td><td>0.17</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>64</td><td>100.043</td><td>-0.507</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>64</td><td>99.860</td><td>-0.483</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>64</td><td>99.793</td><td>-0.466</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>64</td><td>99.614</td><td>-0.436</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>64</td><td>99.577</td><td>-0.401</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>64</td><td>99.513</td><td>-0.438</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>64</td><td>99.443</td><td>-0.382</td><td>0.000</td><td>0.17</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>64</td><td>99.278</td><td>-0.471</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>64</td><td>99.123</td><td>-0.517</td><td>0.000</td><td>0.05</td><td></td></tr></tbody></table>								Water	Surcharged	Flooded			PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	1.000	S8104 Jelson	64	102.149	-0.267	0.000	0.03		1.001	S8172 Jelson	64	101.826	-0.263	0.000	0.04		1.002	S8105 Jelson	64	101.576	-0.260	0.000	0.04		1.003	S8107 Jelson	64	101.108	-0.413	0.000	0.02		1.004	S8171 Jelson	64	100.853	-0.403	0.000	0.02		1.005	S8170 Jelson	64	100.269	-0.397	0.000	0.03		1.006	S8009 - Jelson Connection	64	99.937	-0.471	0.000	0.02		1.007	S8010	64	99.640	-0.455	0.000	0.04		1.008	S8011	64	99.524	-0.461	0.000	0.04		2.000	S8108 Jelson	64	100.590	-0.265	0.000	0.03		2.001	S8109 Jelson	64	100.190	-0.249	0.000	0.07		2.002	S8110 Jelson	64	100.014	-0.272	0.000	0.17		3.000	S8115 Jelson	64	100.043	-0.507	0.000	0.01		3.001	S8116 Jelson	64	99.860	-0.483	0.000	0.02		2.003	S8111 Jelson	64	99.793	-0.466	0.000	0.03		2.004	S8112 Jelson	64	99.614	-0.436	0.000	0.05		2.005	S8113 Jelson	64	99.577	-0.401	0.000	0.13		2.006	S8022 Jelson Connection	64	99.513	-0.438	0.000	0.07		1.009	S8023	64	99.443	-0.382	0.000	0.17		1.010	S8025	64	99.278	-0.471	0.000	0.10		1.011	S8026	64	99.123	-0.517	0.000	0.05	
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Bloor Homes			Page 135	
Ashby Road Measham Swadlincote DE12 7JP				
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.9	OK
1.001	S8172 Jelson		4.3	OK
1.002	S8105 Jelson		4.9	OK
1.003	S8107 Jelson		5.0	OK
1.004	S8171 Jelson		9.5	OK
1.005	S8170 Jelson		9.5	OK
1.006	S8009 - Jelson Connection		9.5	OK
1.007	S8010		10.6	OK
1.008	S8011		11.0	OK
2.000	S8108 Jelson		3.2	OK
2.001	S8109 Jelson		5.3	OK
2.002	S8110 Jelson		6.8	OK
3.000	S8115 Jelson	64	2.0	OK
3.001	S8116 Jelson		3.4	OK
2.003	S8111 Jelson		10.4	OK
2.004	S8112 Jelson		12.8	OK
2.005	S8113 Jelson		15.2	OK
2.006	S8022 Jelson Connection		17.8	OK
1.009	S8023		29.6	OK
1.010	S8025		33.3	OK
1.011	S8026		34.5	OK
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Bloor Homes			Page 137																																																																																																																																																																			
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<u>Simulation Criteria</u>																																																																																																																																																																						
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																	
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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		2																																																																																																																																																																	
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																	
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																	
<u>Synthetic Rainfall Details</u>																																																																																																																																																																						
Rainfall Model		FSR	Ratio R		0.400																																																																																																																																																																	
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																																																																																																																																																																				
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1.010	S8025	67	99.269	-0.480	0.000	0.09																																																																																																																																																																
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Bloor Homes			Page 140																																																																																																																																																																																				
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Hot Start (mins) 0		MADD Factor * 10m³/ha Storage 0.000																																																																																																																																																																																					
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M5-60 (mm)		20.000	Cv (Winter) 0.840																																																																																																																																																																																				
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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																																																																																																																																																																																					
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>69</td><td>102.145</td><td>-0.271</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>69</td><td>101.822</td><td>-0.267</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>69</td><td>101.571</td><td>-0.265</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>69</td><td>101.099</td><td>-0.422</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>69</td><td>100.845</td><td>-0.411</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>69</td><td>100.263</td><td>-0.403</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>69</td><td>99.926</td><td>-0.482</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>69</td><td>99.631</td><td>-0.464</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>69</td><td>99.517</td><td>-0.468</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>69</td><td>100.586</td><td>-0.269</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>69</td><td>100.183</td><td>-0.256</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>69</td><td>99.999</td><td>-0.287</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>69</td><td>100.038</td><td>-0.512</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>69</td><td>99.851</td><td>-0.492</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>69</td><td>99.787</td><td>-0.472</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>69</td><td>99.599</td><td>-0.451</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>69</td><td>99.561</td><td>-0.417</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>69</td><td>99.500</td><td>-0.451</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>69</td><td>99.422</td><td>-0.403</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>69</td><td>99.260</td><td>-0.490</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>69</td><td>99.112</td><td>-0.528</td><td>0.000</td><td>0.03</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)	1.000	S8104 Jelson	69	102.145	-0.271	0.000	0.02		1.001	S8172 Jelson	69	101.822	-0.267	0.000	0.03		1.002	S8105 Jelson	69	101.571	-0.265	0.000	0.03		1.003	S8107 Jelson	69	101.099	-0.422	0.000	0.01		1.004	S8171 Jelson	69	100.845	-0.411	0.000	0.02		1.005	S8170 Jelson	69	100.263	-0.403	0.000	0.02		1.006	S8009 - Jelson Connection	69	99.926	-0.482	0.000	0.02		1.007	S8010	69	99.631	-0.464	0.000	0.03		1.008	S8011	69	99.517	-0.468	0.000	0.03		2.000	S8108 Jelson	69	100.586	-0.269	0.000	0.02		2.001	S8109 Jelson	69	100.183	-0.256	0.000	0.05		2.002	S8110 Jelson	69	99.999	-0.287	0.000	0.13		3.000	S8115 Jelson	69	100.038	-0.512	0.000	0.01		3.001	S8116 Jelson	69	99.851	-0.492	0.000	0.01		2.003	S8111 Jelson	69	99.787	-0.472	0.000	0.02		2.004	S8112 Jelson	69	99.599	-0.451	0.000	0.04		2.005	S8113 Jelson	69	99.561	-0.417	0.000	0.10		2.006	S8022 Jelson Connection	69	99.500	-0.451	0.000	0.05		1.009	S8023	69	99.422	-0.403	0.000	0.12		1.010	S8025	69	99.260	-0.490	0.000	0.08		1.011	S8026	69	99.112	-0.528	0.000	0.03	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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Bloor Homes		Page 141
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		2.2	OK
1.001	S8172 Jelson		3.2	OK
1.002	S8105 Jelson		3.6	OK
1.003	S8107 Jelson		3.8	OK
1.004	S8171 Jelson		7.1	OK
1.005	S8170 Jelson		7.1	OK
1.006	S8009 - Jelson Connection		7.1	OK
1.007	S8010		7.9	OK
1.008	S8011		8.2	OK
2.000	S8108 Jelson		2.4	OK
2.001	S8109 Jelson		3.9	OK
2.002	S8110 Jelson		5.1	OK
3.000	S8115 Jelson	108	1.5	OK
3.001	S8116 Jelson		2.6	OK
2.003	S8111 Jelson		7.7	OK
2.004	S8112 Jelson		9.5	OK
2.005	S8113 Jelson		11.3	OK
2.006	S8022 Jelson Connection		13.2	OK
1.009	S8023		22.1	OK
1.010	S8025		24.8	OK
1.011	S8026		25.7	OK

Bloor Homes			Page 143																																																																																																																																																																																				
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																																					
Climate Change (%)		0, 0, 40																																																																																																																																																																																					
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Ashby Road Measham Swadlincote DE12 7JP		
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Innovyze	Network 2020.1.3	

Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		1.7	OK
1.001	S8172 Jelson		2.6	OK
1.002	S8105 Jelson		2.9	OK
1.003	S8107 Jelson		3.0	OK
1.004	S8171 Jelson		5.7	OK
1.005	S8170 Jelson		5.7	OK
1.006	S8009 - Jelson Connection		5.7	OK
1.007	S8010		6.4	OK
1.008	S8011		6.7	OK
2.000	S8108 Jelson		1.9	OK
2.001	S8109 Jelson		3.2	OK
2.002	S8110 Jelson		4.1	OK
3.000	S8115 Jelson	128	1.2	OK
3.001	S8116 Jelson		2.1	OK
2.003	S8111 Jelson		6.2	OK
2.004	S8112 Jelson		7.7	OK
2.005	S8113 Jelson		9.2	OK
2.006	S8022 Jelson Connection		10.7	OK
1.009	S8023		17.9	OK
1.010	S8025		20.1	OK
1.011	S8026		20.9	OK

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Innovyze		Network 2020.1.3

Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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 / Cap.	Overflow (l/s)
1.000	S8104	Jelson	72 102.134	-0.282	0.000	0.01	
1.001	S8172	Jelson	72 101.813	-0.276	0.000	0.02	
1.002	S8105	Jelson	72 101.564	-0.272	0.000	0.02	
1.003	S8107	Jelson	72 101.088	-0.433	0.000	0.01	
1.004	S8171	Jelson	72 100.829	-0.427	0.000	0.01	
1.005	S8170	Jelson	72 100.248	-0.418	0.000	0.01	
1.006	S8009 -	Jelson Connection	72 99.909	-0.499	0.000	0.01	
1.007	S8010		72 99.619	-0.476	0.000	0.02	
1.008	S8011		72 99.500	-0.485	0.000	0.02	
2.000	S8108	Jelson	72 100.575	-0.280	0.000	0.01	
2.001	S8109	Jelson	72 100.173	-0.266	0.000	0.03	
2.002	S8110	Jelson	72 99.979	-0.307	0.000	0.08	
3.000	S8115	Jelson	72 100.033	-0.517	0.000	0.00	
3.001	S8116	Jelson	72 99.837	-0.506	0.000	0.01	
2.003	S8111	Jelson	72 99.767	-0.492	0.000	0.01	
2.004	S8112	Jelson	72 99.582	-0.468	0.000	0.02	
2.005	S8113	Jelson	72 99.534	-0.444	0.000	0.06	
2.006	S8022	Jelson Connection	72 99.485	-0.466	0.000	0.03	
1.009	S8023		72 99.394	-0.431	0.000	0.07	
1.010	S8025		72 99.232	-0.517	0.000	0.05	
1.011	S8026		72 99.100	-0.540	0.000	0.02	

Bloor Homes			Page 149																																																																																																																																																																			
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Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		0.000																																																																																																																																																																	
Hot Start Level (mm)		0	Inlet Coefficient		0.800																																																																																																																																																																	
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			Water	Surcharged	Flooded																																																																																																																																																																	
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<u>Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		56.5	OK
1.001	S8172 Jelson		85.2	OK
1.002	S8105 Jelson		95.8	OK
1.003	S8107 Jelson		99.7	OK
1.004	S8171 Jelson		190.8	OK
1.005	S8170 Jelson		188.2	OK
1.006	S8009 - Jelson Connection		174.0	SURCHARGED
1.007	S8010		186.6	SURCHARGED
1.008	S8011		192.8	SURCHARGED
2.000	S8108 Jelson		60.1	SURCHARGED
2.001	S8109 Jelson		91.0	SURCHARGED
2.002	S8110 Jelson		115.7	SURCHARGED
3.000	S8115 Jelson	3	50.0	OK
3.001	S8116 Jelson		82.8	SURCHARGED
2.003	S8111 Jelson		179.2	SURCHARGED
2.004	S8112 Jelson		194.1	SURCHARGED
2.005	S8113 Jelson		207.1	SURCHARGED
2.006	S8022 Jelson Connection		221.3	SURCHARGED
1.009	S8023		413.4	SURCHARGED
1.010	S8025		453.9	SURCHARGED
1.011	S8026		459.3	OK
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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068	8 99.262	-0.078	0.000	0.50	
1.012		S8028	7 99.226	0.132	0.000	1.44	
1.013		S8029	7 98.963	-0.007	0.000	0.86	
1.014		S8030	7 98.698	0.078	0.000	1.29	
1.015		S8031	8 98.305	-0.155	0.000	0.90	
1.016		S8034	16 97.812	-0.268	0.000	0.59	
1.017		S8037	25 97.376	-0.004	0.000	0.67	
1.018	S8039 - Headwall	12	97.334	0.419	0.000	3.03	
1.019	S8051 - Headwall	6	96.900	0.000	0.000	1.54	
1.020	S8052 Control Chamber	47	96.782	-0.018	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 34.3	OK
1.012		S8028 507.7	SURCHARGED
1.013		S8029 512.3	OK
1.014		S8030 517.4	SURCHARGED
1.015		S8031 524.3	OK
1.016		S8034 537.4	OK
1.017		S8037 533.5	OK
1.018	S8039 - Headwall	534.0	SURCHARGED*
1.019	S8051 - Headwall	535.6	SURCHARGED*
1.020	S8052 Control Chamber	10.7	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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 / Cap.	Overflow (l/s)
1.000	S8104 Jelson	10	102.252	-0.164	0.000	0.43	
1.001	S8172 Jelson	10	101.952	-0.137	0.000	0.57	
1.002	S8105 Jelson	10	101.716	-0.120	0.000	0.67	
1.003	S8107 Jelson	10	101.229	-0.292	0.000	0.27	
1.004	S8171 Jelson	10	100.998	-0.258	0.000	0.38	
1.005	S8170 Jelson	10	100.445	-0.221	0.000	0.51	
1.006	S8009 - Jelson Connection	11	100.245	-0.162	0.000	0.34	
1.007	S8010	11	100.212	0.117	0.000	0.63	
1.008	S8011	11	100.167	0.182	0.000	0.51	
2.000	S8108 Jelson	10	100.701	-0.154	0.000	0.48	
2.001	S8109 Jelson	11	100.509	0.070	0.000	1.03	
2.002	S8110 Jelson	11	100.371	0.085	0.000	2.45	
3.000	S8115 Jelson	11	100.318	-0.232	0.000	0.10	
3.001	S8116 Jelson	11	100.311	-0.032	0.000	0.24	
2.003	S8111 Jelson	11	100.300	0.041	0.000	0.42	
2.004	S8112 Jelson	11	100.269	0.219	0.000	0.71	
2.005	S8113 Jelson	11	100.230	0.252	0.000	1.58	
2.006	S8022 Jelson Connection	11	100.188	0.237	0.000	0.78	
1.009	S8023	11	100.128	0.303	0.000	2.08	
1.010	S8025	11	99.795	0.045	0.000	1.28	
1.011	S8026	11	99.367	-0.273	0.000	0.58	

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		44.4	OK
1.001	S8172 Jelson		66.1	OK
1.002	S8105 Jelson		74.8	OK
1.003	S8107 Jelson		77.7	OK
1.004	S8171 Jelson		146.5	OK
1.005	S8170 Jelson		146.6	OK
1.006	S8009 - Jelson Connection		140.0	OK
1.007	S8010		152.3	SURCHARGED
1.008	S8011		156.4	SURCHARGED
2.000	S8108 Jelson		48.8	OK
2.001	S8109 Jelson		78.1	SURCHARGED
2.002	S8110 Jelson		99.0	SURCHARGED
3.000	S8115 Jelson	3	28.6	OK
3.001	S8116 Jelson		54.2	OK
2.003	S8111 Jelson		148.0	SURCHARGED
2.004	S8112 Jelson		168.3	SURCHARGED
2.005	S8113 Jelson		188.4	SURCHARGED
2.006	S8022 Jelson Connection		211.7	SURCHARGED
1.009	S8023		371.6	SURCHARGED
1.010	S8025		411.3	SURCHARGED
1.011	S8026		425.2	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	10 99.209	-0.131	0.000	0.40		
1.012		S8028	10 99.171	0.077	0.000	1.36		
1.013		S8029	10 98.906	-0.064	0.000	0.82		
1.014		S8030	10 98.670	0.050	0.000	1.22		
1.015		S8031	9 98.290	-0.170	0.000	0.86		
1.016		S8034	18 97.804	-0.276	0.000	0.56		
1.017		S8037	26 97.351	-0.029	0.000	0.66		
1.018	S8039 - Headwall	26 97.321		0.406	0.000	2.97		
1.019	S8051 - Headwall	7 96.900		0.000	0.000	1.51		
1.020	S8052 Control Chamber	45 96.902		0.102	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 27.3	OK
1.012		S8028 479.6	SURCHARGED
1.013		S8029 486.0	OK
1.014		S8030 490.7	SURCHARGED
1.015		S8031 498.8	OK
1.016		S8034 516.8	OK
1.017		S8037 519.7	OK
1.018	S8039 - Headwall	523.0	SURCHARGED*
1.019	S8051 - Headwall	525.2	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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 / Cap.	Overflow (l/s)
1.000	S8104 Jelson	15	102.224	-0.192	0.000	0.28	
1.001	S8172 Jelson	15	101.916	-0.173	0.000	0.37	
1.002	S8105 Jelson	15	101.675	-0.161	0.000	0.43	
1.003	S8107 Jelson	15	101.198	-0.323	0.000	0.17	
1.004	S8171 Jelson	15	100.958	-0.298	0.000	0.25	
1.005	S8170 Jelson	15	100.397	-0.269	0.000	0.33	
1.006	S8009 - Jelson Connection	15	100.055	-0.352	0.000	0.23	
1.007	S8010	15	99.979	-0.116	0.000	0.43	
1.008	S8011	15	99.947	-0.038	0.000	0.35	
2.000	S8108 Jelson	15	100.670	-0.185	0.000	0.31	
2.001	S8109 Jelson	15	100.362	-0.077	0.000	0.69	
2.002	S8110 Jelson	15	100.286	0.000	0.000	1.69	
3.000	S8115 Jelson	15	100.131	-0.419	0.000	0.07	
3.001	S8116 Jelson	15	100.060	-0.283	0.000	0.15	
2.003	S8111 Jelson	15	100.051	-0.208	0.000	0.29	
2.004	S8112 Jelson	15	100.027	-0.023	0.000	0.52	
2.005	S8113 Jelson	15	99.995	0.017	0.000	1.22	
2.006	S8022 Jelson Connection	15	99.962	0.011	0.000	0.62	
1.009	S8023	15	99.919	0.094	0.000	1.60	
1.010	S8025	15	99.627	-0.123	0.000	0.99	
1.011	S8026	15	99.320	-0.320	0.000	0.44	

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PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		29.0	OK
1.001	S8172 Jelson		43.1	OK
1.002	S8105 Jelson		48.5	OK
1.003	S8107 Jelson		50.6	OK
1.004	S8171 Jelson		95.5	OK
1.005	S8170 Jelson		95.3	OK
1.006	S8009 - Jelson Connection		95.6	OK
1.007	S8010		105.6	OK
1.008	S8011		107.8	OK
2.000	S8108 Jelson		31.9	OK
2.001	S8109 Jelson		52.9	OK
2.002	S8110 Jelson		68.2	SURCHARGED
3.000	S8115 Jelson	14	19.9	OK
3.001	S8116 Jelson		33.1	OK
2.003	S8111 Jelson		101.2	OK
2.004	S8112 Jelson		123.8	OK
2.005	S8113 Jelson		145.6	SURCHARGED
2.006	S8022 Jelson Connection		169.5	SURCHARGED
1.009	S8023		285.1	SURCHARGED
1.010	S8025		317.1	OK
1.011	S8026		327.6	OK
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PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		18.0	OK
1.001	S8172 Jelson		26.7	OK
1.002	S8105 Jelson		30.1	OK
1.003	S8107 Jelson		31.3	OK
1.004	S8171 Jelson		58.9	OK
1.005	S8170 Jelson		58.9	OK
1.006	S8009 - Jelson Connection		58.9	OK
1.007	S8010		65.7	OK
1.008	S8011		67.0	OK
2.000	S8108 Jelson		19.8	OK
2.001	S8109 Jelson		32.2	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	28	12.4	OK
3.001	S8116 Jelson		21.3	OK
2.003	S8111 Jelson		62.4	OK
2.004	S8112 Jelson		77.5	OK
2.005	S8113 Jelson		92.2	OK
2.006	S8022 Jelson Connection		107.5	OK
1.009	S8023		178.6	OK
1.010	S8025		199.9	OK
1.011	S8026		207.4	OK
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Innovyze		Network 2020.1.3

Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 26	99.122	-0.218	0.000	0.17	
1.012		S8028 21	98.856	-0.238	0.000	0.66	
1.013		S8029 21	98.636	-0.334	0.000	0.40	
1.014		S8030 21	98.359	-0.261	0.000	0.60	
1.015		S8031 21	98.134	-0.326	0.000	0.43	
1.016		S8034 31	97.698	-0.382	0.000	0.28	
1.017		S8037 41	97.123	-0.257	0.000	0.34	
1.018	S8039 - Headwall	40	97.122	0.207	0.000	1.59	
1.019	S8051 - Headwall	9	96.900	0.000	0.000	0.80	
1.020	S8052 Control Chamber	33	97.119	0.319	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 11.3	OK
1.012		S8028 234.7	OK
1.013		S8029 238.9	OK
1.014		S8030 242.0	OK
1.015		S8031 248.4	OK
1.016		S8034 259.9	OK
1.017		S8037 269.6	OK
1.018	S8039 - Headwall	279.0	SURCHARGED*
1.019	S8051 - Headwall	276.0	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

Bloor Homes			Page 161																																																																																																																																																																			
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Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000																																																																																																																																																																
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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 2																																																																																																																																																																
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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																																																																																																																																																																
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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		7.9	OK
1.001	S8172 Jelson		11.7	OK
1.002	S8105 Jelson		13.2	OK
1.003	S8107 Jelson		13.7	OK
1.004	S8171 Jelson		25.8	OK
1.005	S8170 Jelson		25.8	OK
1.006	S8009 - Jelson Connection		25.8	OK
1.007	S8010		28.9	OK
1.008	S8011		30.0	OK
2.000	S8108 Jelson		8.7	OK
2.001	S8109 Jelson		14.3	OK
2.002	S8110 Jelson		18.5	OK
3.000	S8115 Jelson	66	5.4	OK
3.001	S8116 Jelson		9.3	OK
2.003	S8111 Jelson		28.2	OK
2.004	S8112 Jelson		34.8	OK
2.005	S8113 Jelson		41.4	OK
2.006	S8022 Jelson Connection		48.3	OK
1.009	S8023		80.5	OK
1.010	S8025		90.4	OK
1.011	S8026		93.8	OK
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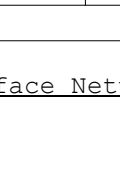
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Bloor Homes			Page 171	
Ashby Road Measham Swadlincote DE12 7JP				
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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		6.3	OK
1.001	S8172 Jelson		9.4	OK
1.002	S8105 Jelson		10.6	OK
1.003	S8107 Jelson		11.0	OK
1.004	S8171 Jelson		20.7	OK
1.005	S8170 Jelson		20.7	OK
1.006	S8009 - Jelson Connection		20.7	OK
1.007	S8010		23.2	OK
1.008	S8011		24.0	OK
2.000	S8108 Jelson		6.9	OK
2.001	S8109 Jelson		11.5	OK
2.002	S8110 Jelson		14.8	OK
3.000	S8115 Jelson	80	4.3	OK
3.001	S8116 Jelson		7.5	OK
2.003	S8111 Jelson		22.5	OK
2.004	S8112 Jelson		27.9	OK
2.005	S8113 Jelson		33.1	OK
2.006	S8022 Jelson Connection		38.7	OK
1.009	S8023		64.5	OK
1.010	S8025		72.4	OK
1.011	S8026		75.2	OK
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1.005	S8170 Jelson	53	100.287	-0.379	0.000	0.06																																																																																																																																																												
1.006	S8009 - Jelson Connection	53	99.952	-0.456	0.000	0.04																																																																																																																																																												
1.007	S8010	53	99.668	-0.427	0.000	0.08																																																																																																																																																												
1.008	S8011	53	99.552	-0.433	0.000	0.07																																																																																																																																																												
2.000	S8108 Jelson	53	100.601	-0.254	0.000	0.06																																																																																																																																																												
2.001	S8109 Jelson	53	100.210	-0.229	0.000	0.13																																																																																																																																																												
2.002	S8110 Jelson	53	100.053	-0.233	0.000	0.31																																																																																																																																																												
3.000	S8115 Jelson	53	100.057	-0.493	0.000	0.01																																																																																																																																																												
3.001	S8116 Jelson	53	99.879	-0.464	0.000	0.03																																																																																																																																																												
2.003	S8111 Jelson	53	99.812	-0.447	0.000	0.05																																																																																																																																																												
2.004	S8112 Jelson	53	99.654	-0.396	0.000	0.10																																																																																																																																																												
2.005	S8113 Jelson	53	99.624	-0.354	0.000	0.23																																																																																																																																																												
2.006	S8022 Jelson Connection	53	99.549	-0.402	0.000	0.12																																																																																																																																																												
1.009	S8023	53	99.497	-0.328	0.000	0.30																																																																																																																																																												
1.010	S8025	53	99.326	-0.424	0.000	0.19																																																																																																																																																												
1.011	S8026	53	99.157	-0.483	0.000	0.09																																																																																																																																																												
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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		5.3	OK
1.001	S8172 Jelson		7.9	OK
1.002	S8105 Jelson		8.9	OK
1.003	S8107 Jelson		9.2	OK
1.004	S8171 Jelson		17.4	OK
1.005	S8170 Jelson		17.4	OK
1.006	S8009 - Jelson Connection		17.4	OK
1.007	S8010		19.5	OK
1.008	S8011		20.2	OK
2.000	S8108 Jelson		5.8	OK
2.001	S8109 Jelson		9.6	OK
2.002	S8110 Jelson		12.4	OK
3.000	S8115 Jelson	90	3.6	OK
3.001	S8116 Jelson		6.3	OK
2.003	S8111 Jelson		18.9	OK
2.004	S8112 Jelson		23.4	OK
2.005	S8113 Jelson		27.8	OK
2.006	S8022 Jelson Connection		32.5	OK
1.009	S8023		54.2	OK
1.010	S8025		60.9	OK
1.011	S8026		63.2	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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 / Cap.	Overflow (l/s)
1.000	S8104	Jelson	58 102.156	-0.260	0.000	0.04	
1.001	S8172	Jelson	58 101.836	-0.253	0.000	0.06	
1.002	S8105	Jelson	58 101.587	-0.249	0.000	0.07	
1.003	S8107	Jelson	58 101.120	-0.401	0.000	0.03	
1.004	S8171	Jelson	58 100.863	-0.393	0.000	0.04	
1.005	S8170	Jelson	58 100.282	-0.384	0.000	0.05	
1.006	S8009 -	Jelson Connection	58 99.947	-0.460	0.000	0.04	
1.007	S8010		58 99.660	-0.435	0.000	0.07	
1.008	S8011		58 99.542	-0.443	0.000	0.06	
2.000	S8108	Jelson	58 100.598	-0.257	0.000	0.05	
2.001	S8109	Jelson	58 100.205	-0.234	0.000	0.11	
2.002	S8110	Jelson	58 100.042	-0.244	0.000	0.27	
3.000	S8115	Jelson	58 100.053	-0.497	0.000	0.01	
3.001	S8116	Jelson	58 99.875	-0.468	0.000	0.02	
2.003	S8111	Jelson	58 99.807	-0.452	0.000	0.05	
2.004	S8112	Jelson	58 99.644	-0.406	0.000	0.09	
2.005	S8113	Jelson	58 99.613	-0.365	0.000	0.20	
2.006	S8022	Jelson Connection	58 99.539	-0.412	0.000	0.10	
1.009	S8023		58 99.482	-0.343	0.000	0.26	
1.010	S8025		58 99.312	-0.438	0.000	0.16	
1.011	S8026		58 99.147	-0.493	0.000	0.07	

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	60 99.076	-0.264	0.000	0.03		
1.012		S8028	60 98.643	-0.451	0.000	0.14		
1.013		S8029	60 98.487	-0.483	0.000	0.09		
1.014		S8030	60 98.162	-0.458	0.000	0.13		
1.015		S8031	60 97.981	-0.479	0.000	0.09		
1.016		S8034	60 97.575	-0.505	0.000	0.06		
1.017		S8037	34 97.190	-0.190	0.000	0.07		
1.018	S8039 - Headwall	34	97.189	0.274	0.000	0.33		
1.019	S8051 - Headwall	16	96.900	0.000	0.000	0.16		
1.020	S8052 Control Chamber	28	97.187	0.387	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 2.3	OK
1.012		S8028 49.7	OK
1.013		S8029 50.5	OK
1.014		S8030 51.2	OK
1.015		S8031 52.4	OK
1.016		S8034 54.9	OK
1.017		S8037 56.5	OK
1.018	S8039 - Headwall	57.7	SURCHARGED*
1.019	S8051 - Headwall	57.3	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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Innovyze		Network 2020.1.3																																																																																																																																																																																						
<u>Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 8</u>																																																																																																																																																																																								
<u>Simulation Criteria</u>																																																																																																																																																																																								
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																																			
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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		2																																																																																																																																																																																			
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																																			
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																																			
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Rainfall Model		FSR	Ratio R		0.400																																																																																																																																																																																			
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M5-60 (mm)		20.000	Cv (Winter)		0.840																																																																																																																																																																																			
Margin for Flood Risk Warning (mm)		300.0	DVD Status		OFF																																																																																																																																																																																			
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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																																																																																																																																																																																						
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow Cap.</th><th rowspan="2">(l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>66</td><td>102.148</td><td>-0.268</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>66</td><td>101.825</td><td>-0.264</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>66</td><td>101.574</td><td>-0.262</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>66</td><td>101.105</td><td>-0.416</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>66</td><td>100.852</td><td>-0.404</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>66</td><td>100.267</td><td>-0.399</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>66</td><td>99.935</td><td>-0.472</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>66</td><td>99.637</td><td>-0.458</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>66</td><td>99.522</td><td>-0.463</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>66</td><td>100.588</td><td>-0.267</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>66</td><td>100.188</td><td>-0.251</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>66</td><td>100.009</td><td>-0.277</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>66</td><td>100.041</td><td>-0.509</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>66</td><td>99.857</td><td>-0.486</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>66</td><td>99.791</td><td>-0.468</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>66</td><td>99.609</td><td>-0.441</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>66</td><td>99.572</td><td>-0.406</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>66</td><td>99.509</td><td>-0.442</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>66</td><td>99.436</td><td>-0.389</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>66</td><td>99.274</td><td>-0.476</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>66</td><td>99.120</td><td>-0.520</td><td>0.000</td><td>0.04</td><td></td></tr></table>						PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow Cap.	(l/s)	Level (m)	Depth (m)	Volume (m³)	1.000	S8104 Jelson	66	102.148	-0.268	0.000	0.03		1.001	S8172 Jelson	66	101.825	-0.264	0.000	0.03		1.002	S8105 Jelson	66	101.574	-0.262	0.000	0.04		1.003	S8107 Jelson	66	101.105	-0.416	0.000	0.02		1.004	S8171 Jelson	66	100.852	-0.404	0.000	0.02		1.005	S8170 Jelson	66	100.267	-0.399	0.000	0.03		1.006	S8009 - Jelson Connection	66	99.935	-0.472	0.000	0.02		1.007	S8010	66	99.637	-0.458	0.000	0.04		1.008	S8011	66	99.522	-0.463	0.000	0.03		2.000	S8108 Jelson	66	100.588	-0.267	0.000	0.03		2.001	S8109 Jelson	66	100.188	-0.251	0.000	0.06		2.002	S8110 Jelson	66	100.009	-0.277	0.000	0.16		3.000	S8115 Jelson	66	100.041	-0.509	0.000	0.01		3.001	S8116 Jelson	66	99.857	-0.486	0.000	0.01		2.003	S8111 Jelson	66	99.791	-0.468	0.000	0.03		2.004	S8112 Jelson	66	99.609	-0.441	0.000	0.05		2.005	S8113 Jelson	66	99.572	-0.406	0.000	0.12		2.006	S8022 Jelson Connection	66	99.509	-0.442	0.000	0.06		1.009	S8023	66	99.436	-0.389	0.000	0.15		1.010	S8025	66	99.274	-0.476	0.000	0.10		1.011	S8026	66	99.120	-0.520	0.000	0.04	
PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded				Flow / Overflow Cap.	(l/s)																																																																																																																																																																														
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3.000	S8115 Jelson	66	100.041	-0.509	0.000	0.01																																																																																																																																																																																		
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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068 66	99.072	-0.268	0.000	0.02	
1.012		S8028 66	98.622	-0.472	0.000	0.10	
1.013		S8029 66	98.466	-0.504	0.000	0.06	
1.014		S8030 66	98.142	-0.478	0.000	0.09	
1.015		S8031 66	97.959	-0.501	0.000	0.07	
1.016		S8034 66	97.560	-0.520	0.000	0.04	
1.017		S8037 38	97.126	-0.254	0.000	0.05	
1.018	S8039 - Headwall	37	97.126	0.211	0.000	0.24	
1.019	S8051 - Headwall	17	96.900	0.000	0.000	0.12	
1.020	S8052 Control Chamber	30	97.124	0.324	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 1.7	OK
1.012		S8028 36.2	OK
1.013		S8029 36.7	OK
1.014		S8030 37.2	OK
1.015		S8031 38.2	OK
1.016		S8034 39.9	OK
1.017		S8037 41.2	OK
1.018	S8039 - Headwall	42.1	SURCHARGED*
1.019	S8051 - Headwall	41.8	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	1	103.545	1.129	0.000	0.88
1.001	S8172 Jelson	1	103.301	1.212	0.000	1.15
1.002	S8105 Jelson	1	102.989	1.153	0.000	1.26
1.003	S8107 Jelson	1	102.495	0.974	0.000	0.51
1.004	S8171 Jelson	1	102.443	1.187	0.000	0.69
1.005	S8170 Jelson	1	102.130	1.464	0.000	0.92
1.006	S8009 - Jelson Connection	1	101.886	1.478	2.461	0.63
1.007	S8010	1	101.817	1.722	4.518	1.29
1.008	S8011	1	101.774	1.789	0.000	1.07
2.000	S8108 Jelson	1	102.563	1.708	3.484	0.98
2.001	S8109 Jelson	1	102.302	1.863	2.289	1.96
2.002	S8110 Jelson	1	101.936	1.650	0.000	4.65
3.000	S8115 Jelson	1	101.288	0.738	0.000	0.81
3.001	S8116 Jelson	1	101.468	1.125	0.000	1.02
2.003	S8111 Jelson	1	101.670	1.411	0.000	0.74
2.004	S8112 Jelson	1	101.738	1.688	0.000	1.11
2.005	S8113 Jelson	1	101.765	1.787	0.000	2.24
2.006	S8022 Jelson Connection	1	101.757	1.806	0.000	1.10

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)
1.009	S8023	1	101.725	1.900	0.000	2.83	
1.010	S8025	1	101.374	1.624	0.000	1.86	
1.011	S8026	1	101.051	1.411	0.000	0.85	
4.000	S8068	1	100.792	1.452	1.856	0.88	
1.012	S8028	1	100.744	1.650	0.000	2.08	
1.013	S8029	1	100.341	1.371	0.000	1.23	
1.014	S8030	1	99.903	1.283	0.000	1.80	
1.015	S8031	1	99.435	0.975	0.000	1.26	
1.016	S8034	1	98.860	0.780	0.000	0.84	
1.017	S8037	2	98.092	0.712	0.000	0.99	
1.018	S8039 - Headwall	13	97.334	0.419	0.000	4.46	
1.019	S8051 - Headwall	18	96.900	0.000	0.000	2.28	
1.020	S8052 Control Chamber	35	97.107	0.307	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009	S8023	505.4	FLOOD RISK
1.010	S8025	597.0	SURCHARGED
1.011	S8026	624.2	SURCHARGED
4.000	S8068	60.2	FLOOD
1.012	S8028	733.3	SURCHARGED
1.013	S8029	731.8	SURCHARGED
1.014	S8030	721.6	SURCHARGED
1.015	S8031	736.7	SURCHARGED
1.016	S8034	771.2	SURCHARGED
1.017	S8037	783.9	FLOOD RISK
1.018	S8039 - Headwall	784.5	SURCHARGED*
1.019	S8051 - Headwall	792.4	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	4	102.702	0.286	0.000	0.76	
1.001	S8172 Jelson	4	102.548	0.459	0.000	0.95	
1.002	S8105 Jelson	4	102.349	0.513	0.000	1.08	
1.003	S8107 Jelson	4	102.030	0.509	0.000	0.46	
1.004	S8171 Jelson	4	101.990	0.734	0.000	0.61	
1.005	S8170 Jelson	4	101.798	1.132	0.000	0.76	
1.006	S8009 - Jelson Connection	4	101.651	1.243	0.000	0.54	
1.007	S8010	4	101.597	1.502	0.000	1.01	
1.008	S8011	4	101.495	1.510	0.000	0.83	
2.000	S8108 Jelson	4	102.445	1.590	0.000	0.81	
2.001	S8109 Jelson	4	102.174	1.735	0.000	1.76	
2.002	S8110 Jelson	4	101.703	1.417	0.000	4.19	
3.000	S8115 Jelson	2	101.256	0.706	0.000	0.67	
3.001	S8116 Jelson	3	101.326	0.983	0.000	0.87	
2.003	S8111 Jelson	3	101.444	1.185	0.000	0.70	
2.004	S8112 Jelson	4	101.468	1.418	0.000	1.11	
2.005	S8113 Jelson	4	101.466	1.488	0.000	2.33	
2.006	S8022 Jelson Connection	4	101.450	1.499	0.000	1.07	
1.009	S8023	4	101.417	1.592	0.000	2.67	
1.010	S8025	4	101.063	1.313	0.000	1.73	
1.011	S8026	3	100.802	1.162	0.000	0.78	

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)
4.000		S8068	2 100.601	1.261	0.000	0.64	
1.012		S8028	2 100.514	1.420	0.000	1.92	
1.013		S8029	2 100.103	1.133	0.000	1.14	
1.014		S8030	2 99.698	1.078	0.000	1.68	
1.015		S8031	2 99.274	0.814	0.000	1.19	
1.016		S8034	2 98.760	0.680	0.000	0.80	
1.017		S8037	3 98.075	0.695	0.000	0.96	
1.018	S8039 - Headwall	14	97.334	0.419	0.000	4.46	
1.019	S8051 - Headwall	19	96.900	0.000	0.000	2.28	
1.020	S8052 Control Chamber	21	97.308	0.508	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 43.6	FLOOD RISK
1.012		S8028 676.0	SURCHARGED
1.013		S8029 678.3	SURCHARGED
1.014		S8030 675.3	SURCHARGED
1.015		S8031 692.6	SURCHARGED
1.016		S8034 729.7	SURCHARGED
1.017		S8037 761.2	FLOOD RISK
1.018	S8039 - Headwall	784.8	SURCHARGED*
1.019	S8051 - Headwall	792.1	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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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		2																																																																																																																																																																	
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																	
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<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>8</td><td>102.269</td><td>-0.147</td><td>0.000</td><td>0.51</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>8</td><td>101.974</td><td>-0.115</td><td>0.000</td><td>0.69</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>8</td><td>101.741</td><td>-0.095</td><td>0.000</td><td>0.79</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>8</td><td>101.247</td><td>-0.274</td><td>0.000</td><td>0.32</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>8</td><td>101.020</td><td>-0.236</td><td>0.000</td><td>0.45</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>6</td><td>100.843</td><td>0.177</td><td>0.000</td><td>0.58</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>6</td><td>100.788</td><td>0.380</td><td>0.000</td><td>0.39</td></tr><tr><td>1.007</td><td>S8010</td><td>6</td><td>100.750</td><td>0.655</td><td>0.000</td><td>0.74</td></tr><tr><td>1.008</td><td>S8011</td><td>6</td><td>100.696</td><td>0.711</td><td>0.000</td><td>0.60</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>6</td><td>101.248</td><td>0.393</td><td>0.000</td><td>0.55</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>6</td><td>101.122</td><td>0.683</td><td>0.000</td><td>1.22</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>6</td><td>100.926</td><td>0.640</td><td>0.000</td><td>2.93</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>6</td><td>100.803</td><td>0.253</td><td>0.000</td><td>0.36</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>6</td><td>100.813</td><td>0.470</td><td>0.000</td><td>0.53</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>6</td><td>100.817</td><td>0.558</td><td>0.000</td><td>0.56</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>6</td><td>100.791</td><td>0.741</td><td>0.000</td><td>0.92</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>6</td><td>100.754</td><td>0.776</td><td>0.000</td><td>2.01</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>6</td><td>100.712</td><td>0.761</td><td>0.000</td><td>0.96</td></tr><tr><td>1.009</td><td>S8023</td><td>6</td><td>100.648</td><td>0.823</td><td>0.000</td><td>2.46</td></tr><tr><td>1.010</td><td>S8025</td><td>6</td><td>100.242</td><td>0.492</td><td>0.000</td><td>1.57</td></tr><tr><td>1.011</td><td>S8026</td><td>6</td><td>100.004</td><td>0.364</td><td>0.000</td><td>0.70</td></tr></table>									Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	8	102.269	-0.147	0.000	0.51	1.001	S8172 Jelson	8	101.974	-0.115	0.000	0.69	1.002	S8105 Jelson	8	101.741	-0.095	0.000	0.79	1.003	S8107 Jelson	8	101.247	-0.274	0.000	0.32	1.004	S8171 Jelson	8	101.020	-0.236	0.000	0.45	1.005	S8170 Jelson	6	100.843	0.177	0.000	0.58	1.006	S8009 - Jelson Connection	6	100.788	0.380	0.000	0.39	1.007	S8010	6	100.750	0.655	0.000	0.74	1.008	S8011	6	100.696	0.711	0.000	0.60	2.000	S8108 Jelson	6	101.248	0.393	0.000	0.55	2.001	S8109 Jelson	6	101.122	0.683	0.000	1.22	2.002	S8110 Jelson	6	100.926	0.640	0.000	2.93	3.000	S8115 Jelson	6	100.803	0.253	0.000	0.36	3.001	S8116 Jelson	6	100.813	0.470	0.000	0.53	2.003	S8111 Jelson	6	100.817	0.558	0.000	0.56	2.004	S8112 Jelson	6	100.791	0.741	0.000	0.92	2.005	S8113 Jelson	6	100.754	0.776	0.000	2.01	2.006	S8022 Jelson Connection	6	100.712	0.761	0.000	0.96	1.009	S8023	6	100.648	0.823	0.000	2.46	1.010	S8025	6	100.242	0.492	0.000	1.57	1.011	S8026	6	100.004	0.364	0.000	0.70
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Innovyze		Network 2020.1.3		
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		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(l/s)	Status
1.000	S8104 Jelson		53.4	OK
1.001	S8172 Jelson		79.4	OK
1.002	S8105 Jelson		89.4	OK
1.003	S8107 Jelson		93.1	OK
1.004	S8171 Jelson		175.7	OK
1.005	S8170 Jelson		166.9	SURCHARGED
1.006	S8009 - Jelson Connection		161.1	SURCHARGED
1.007	S8010		178.8	SURCHARGED
1.008	S8011		183.6	SURCHARGED
2.000	S8108 Jelson		56.6	SURCHARGED
2.001	S8109 Jelson		92.8	SURCHARGED
2.002	S8110 Jelson		118.5	SURCHARGED
3.000	S8115 Jelson	8	100.8	SURCHARGED
3.001	S8116 Jelson		120.6	SURCHARGED
2.003	S8111 Jelson		195.6	SURCHARGED
2.004	S8112 Jelson		217.5	SURCHARGED
2.005	S8113 Jelson		238.5	SURCHARGED
2.006	S8022 Jelson Connection		260.3	SURCHARGED
1.009	S8023		438.6	SURCHARGED
1.010	S8025		502.5	SURCHARGED
1.011	S8026		516.1	SURCHARGED
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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
4.000		S8068	6 99.808	0.468	0.000	0.44	
1.012		S8028	6 99.760	0.666	0.000	1.66	
1.013		S8029	6 99.439	0.469	0.000	0.99	
1.014		S8030	6 99.106	0.486	0.000	1.49	
1.015		S8031	6 98.764	0.304	0.000	1.05	
1.016		S8034	6 98.374	0.294	0.000	0.69	
1.017		S8037	10 97.885	0.505	0.000	0.81	
1.018	S8039 - Headwall	15	97.334	0.419	0.000	3.81	
1.019	S8051 - Headwall	20	96.900	0.000	0.000	1.95	
1.020	S8052 Control Chamber	19	97.495	0.695	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 30.1	SURCHARGED
1.012		S8028 584.2	SURCHARGED
1.013		S8029 588.9	SURCHARGED
1.014		S8030 596.3	SURCHARGED
1.015		S8031 611.3	SURCHARGED
1.016		S8034 628.5	SURCHARGED
1.017		S8037 645.8	SURCHARGED
1.018	S8039 - Headwall	670.0	SURCHARGED*
1.019	S8051 - Headwall	675.7	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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<u>Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 8</u>																																																																																																																																																																																							
<u>Simulation Criteria</u>																																																																																																																																																																																							
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000																																																																																																																																																																																				
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage 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 2																																																																																																																																																																																				
Number of Online Controls		1	Number of Time/Area Diagrams 0																																																																																																																																																																																				
Number of Offline Controls		0	Number of Real Time Controls 0																																																																																																																																																																																				
<u>Synthetic Rainfall Details</u>																																																																																																																																																																																							
Rainfall Model		FSR	Ratio R 0.400																																																																																																																																																																																				
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																																																																																																																																																																																					
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>14</td><td>102.232</td><td>-0.184</td><td>0.000</td><td>0.32</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>14</td><td>101.925</td><td>-0.164</td><td>0.000</td><td>0.42</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>14</td><td>101.685</td><td>-0.151</td><td>0.000</td><td>0.49</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>14</td><td>101.207</td><td>-0.314</td><td>0.000</td><td>0.20</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>14</td><td>100.967</td><td>-0.289</td><td>0.000</td><td>0.28</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>14</td><td>100.407</td><td>-0.259</td><td>0.000</td><td>0.38</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>12</td><td>100.108</td><td>-0.300</td><td>0.000</td><td>0.26</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>12</td><td>100.081</td><td>-0.014</td><td>0.000</td><td>0.49</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>12</td><td>100.044</td><td>0.059</td><td>0.000</td><td>0.40</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>14</td><td>100.679</td><td>-0.176</td><td>0.000</td><td>0.36</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>13</td><td>100.390</td><td>-0.049</td><td>0.000</td><td>0.79</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>13</td><td>100.294</td><td>0.008</td><td>0.000</td><td>1.92</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>12</td><td>100.189</td><td>-0.361</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>12</td><td>100.173</td><td>-0.170</td><td>0.000</td><td>0.17</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>12</td><td>100.163</td><td>-0.096</td><td>0.000</td><td>0.33</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>12</td><td>100.135</td><td>0.085</td><td>0.000</td><td>0.60</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>12</td><td>100.099</td><td>0.121</td><td>0.000</td><td>1.41</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>12</td><td>100.061</td><td>0.110</td><td>0.000</td><td>0.71</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>12</td><td>100.011</td><td>0.186</td><td>0.000</td><td>1.83</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>12</td><td>99.755</td><td>0.006</td><td>0.000</td><td>1.14</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>12</td><td>99.346</td><td>-0.294</td><td>0.000</td><td>0.51</td><td></td></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Level (m)	Depth (m)	Volume (m³)	1.000	S8104 Jelson	14	102.232	-0.184	0.000	0.32		1.001	S8172 Jelson	14	101.925	-0.164	0.000	0.42		1.002	S8105 Jelson	14	101.685	-0.151	0.000	0.49		1.003	S8107 Jelson	14	101.207	-0.314	0.000	0.20		1.004	S8171 Jelson	14	100.967	-0.289	0.000	0.28		1.005	S8170 Jelson	14	100.407	-0.259	0.000	0.38		1.006	S8009 - Jelson Connection	12	100.108	-0.300	0.000	0.26		1.007	S8010	12	100.081	-0.014	0.000	0.49		1.008	S8011	12	100.044	0.059	0.000	0.40		2.000	S8108 Jelson	14	100.679	-0.176	0.000	0.36		2.001	S8109 Jelson	13	100.390	-0.049	0.000	0.79		2.002	S8110 Jelson	13	100.294	0.008	0.000	1.92		3.000	S8115 Jelson	12	100.189	-0.361	0.000	0.08		3.001	S8116 Jelson	12	100.173	-0.170	0.000	0.17		2.003	S8111 Jelson	12	100.163	-0.096	0.000	0.33		2.004	S8112 Jelson	12	100.135	0.085	0.000	0.60		2.005	S8113 Jelson	12	100.099	0.121	0.000	1.41		2.006	S8022 Jelson Connection	12	100.061	0.110	0.000	0.71		1.009	S8023	12	100.011	0.186	0.000	1.83		1.010	S8025	12	99.755	0.006	0.000	1.14		1.011	S8026	12	99.346	-0.294	0.000	0.51	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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3.000	S8115 Jelson	12	100.189	-0.361	0.000	0.08																																																																																																																																																																																	
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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		33.0	OK
1.001	S8172 Jelson		49.1	OK
1.002	S8105 Jelson		55.3	OK
1.003	S8107 Jelson		57.5	OK
1.004	S8171 Jelson		108.4	OK
1.005	S8170 Jelson		108.4	OK
1.006	S8009 - Jelson Connection		108.0	OK
1.007	S8010		119.9	OK
1.008	S8011		123.4	SURCHARGED
2.000	S8108 Jelson		36.4	OK
2.001	S8109 Jelson		60.0	OK
2.002	S8110 Jelson		77.4	SURCHARGED
3.000	S8115 Jelson	20	22.5	OK
3.001	S8116 Jelson		38.6	OK
2.003	S8111 Jelson		115.6	OK
2.004	S8112 Jelson		142.1	SURCHARGED
2.005	S8113 Jelson		167.4	SURCHARGED
2.006	S8022 Jelson Connection		194.7	SURCHARGED
1.009	S8023		326.9	SURCHARGED
1.010	S8025		366.3	SURCHARGED
1.011	S8026		380.1	OK

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068 12	99.172	-0.168	0.000	0.30		
1.012		S8028 12	99.127	0.033	0.000	1.22		
1.013		S8029 12	98.818	-0.152	0.000	0.74		
1.014		S8030 12	98.626	0.006	0.000	1.11		
1.015		S8031 12	98.259	-0.201	0.000	0.78		
1.016		S8034 8	97.935	-0.145	0.000	0.51		
1.017		S8037 20	97.727	0.347	0.000	0.60		
1.018	S8039 - Headwall	16	97.334	0.419	0.000	2.80		
1.019	S8051 - Headwall	21	96.900	0.000	0.000	1.43		
1.020	S8052 Control Chamber	15	97.663	0.863	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 20.7	OK
1.012		S8028 430.6	SURCHARGED
1.013		S8029 437.8	OK
1.014		S8030 443.4	SURCHARGED
1.015		S8031 454.1	OK
1.016		S8034 466.1	OK
1.017		S8037 478.0	SURCHARGED
1.018	S8039 - Headwall	492.2	SURCHARGED*
1.019	S8051 - Headwall	496.3	SURCHARGED*
1.020	S8052 Control Chamber	11.0	SURCHARGED

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	17	102.214	-0.202	0.000	0.24	
1.001	S8172 Jelson	17	101.904	-0.185	0.000	0.32	
1.002	S8105 Jelson	17	101.661	-0.175	0.000	0.37	
1.003	S8107 Jelson	17	101.186	-0.335	0.000	0.15	
1.004	S8171 Jelson	17	100.945	-0.311	0.000	0.21	
1.005	S8170 Jelson	17	100.378	-0.288	0.000	0.28	
1.006	S8009 - Jelson Connection	17	100.040	-0.367	0.000	0.20	
1.007	S8010	17	99.921	-0.174	0.000	0.37	
1.008	S8011	17	99.894	-0.091	0.000	0.30	
2.000	S8108 Jelson	17	100.660	-0.195	0.000	0.27	
2.001	S8109 Jelson	17	100.339	-0.100	0.000	0.59	
2.002	S8110 Jelson	19	100.286	0.000	0.000	1.43	
3.000	S8115 Jelson	17	100.118	-0.432	0.000	0.06	
3.001	S8116 Jelson	17	100.037	-0.306	0.000	0.13	
2.003	S8111 Jelson	17	100.027	-0.232	0.000	0.25	
2.004	S8112 Jelson	17	100.005	-0.045	0.000	0.46	
2.005	S8113 Jelson	16	99.978	0.000	0.000	1.08	
2.006	S8022 Jelson Connection	17	99.907	-0.044	0.000	0.55	
1.009	S8023	17	99.869	0.044	0.000	1.38	
1.010	S8025	17	99.583	-0.167	0.000	0.87	
1.011	S8026	17	99.300	-0.340	0.000	0.39	

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		24.6	OK
1.001	S8172 Jelson		36.5	OK
1.002	S8105 Jelson		41.2	OK
1.003	S8107 Jelson		42.8	OK
1.004	S8171 Jelson		80.6	OK
1.005	S8170 Jelson		80.5	OK
1.006	S8009 - Jelson Connection		80.4	OK
1.007	S8010		89.7	OK
1.008	S8011		92.6	OK
2.000	S8108 Jelson		27.1	OK
2.001	S8109 Jelson		44.7	OK
2.002	S8110 Jelson		57.6	OK
3.000	S8115 Jelson	42	16.9	OK
3.001	S8116 Jelson		28.9	OK
2.003	S8111 Jelson		87.2	OK
2.004	S8112 Jelson		107.9	OK
2.005	S8113 Jelson		127.9	OK
2.006	S8022 Jelson Connection		149.0	OK
1.009	S8023		247.0	SURCHARGED
1.010	S8025		277.6	OK
1.011	S8026		288.4	OK

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Innovyze	Network 2020.1.3	

Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	17 99.137	-0.203	0.000	0.23		
1.012		S8028	17 98.948	-0.147	0.000	0.93		
1.013		S8029	17 98.691	-0.279	0.000	0.56		
1.014		S8030	17 98.441	-0.179	0.000	0.84		
1.015		S8031	17 98.191	-0.269	0.000	0.59		
1.016		S8034	23 97.762	-0.318	0.000	0.39		
1.017		S8037	17 97.750	0.370	0.000	0.46		
1.018	S8039 - Headwall	17	97.334	0.419	0.000	2.14		
1.019	S8051 - Headwall	22	96.900	0.000	0.000	1.10		
1.020	S8052 Control Chamber	10	97.744	0.944	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 15.5	OK
1.012		S8028 326.6	OK
1.013		S8029 331.6	OK
1.014		S8030 335.6	OK
1.015		S8031 343.3	OK
1.016		S8034 358.4	OK
1.017		S8037 366.6	SURCHARGED
1.018	S8039 - Headwall	377.4	SURCHARGED*
1.019	S8051 - Headwall	380.6	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 8

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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
 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

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

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	22	102.204	-0.212	0.000	0.19
1.001	S8172 Jelson	21	101.891	-0.198	0.000	0.25
1.002	S8105 Jelson	21	101.647	-0.189	0.000	0.29
1.003	S8107 Jelson	21	101.173	-0.348	0.000	0.12
1.004	S8171 Jelson	21	100.928	-0.328	0.000	0.17
1.005	S8170 Jelson	21	100.360	-0.306	0.000	0.23
1.006	S8009 - Jelson Connection	21	100.021	-0.386	0.000	0.16
1.007	S8010	19	99.868	-0.227	0.000	0.30
1.008	S8011	19	99.845	-0.140	0.000	0.24
2.000	S8108 Jelson	22	100.648	-0.207	0.000	0.21
2.001	S8109 Jelson	20	100.327	-0.112	0.000	0.47
2.002	S8110 Jelson	16	100.286	0.000	0.000	1.14
3.000	S8115 Jelson	22	100.099	-0.451	0.000	0.05
3.001	S8116 Jelson	19	99.964	-0.379	0.000	0.10
2.003	S8111 Jelson	19	99.933	-0.326	0.000	0.20
2.004	S8112 Jelson	19	99.912	-0.138	0.000	0.37
2.005	S8113 Jelson	19	99.890	-0.088	0.000	0.86
2.006	S8022 Jelson Connection	19	99.855	-0.096	0.000	0.44

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 8</u>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		19.7	OK
1.001	S8172 Jelson		29.2	OK
1.002	S8105 Jelson		33.0	OK
1.003	S8107 Jelson		34.3	OK
1.004	S8171 Jelson		64.5	OK
1.005	S8170 Jelson		64.5	OK
1.006	S8009 - Jelson Connection		64.5	OK
1.007	S8010		72.3	OK
1.008	S8011		75.0	OK
2.000	S8108 Jelson		21.7	OK
2.001	S8109 Jelson		35.8	OK
2.002	S8110 Jelson		46.2	OK
3.000	S8115 Jelson	56	13.5	OK
3.001	S8116 Jelson		23.1	OK
2.003	S8111 Jelson		69.9	OK
2.004	S8112 Jelson		86.4	OK
2.005	S8113 Jelson		102.3	OK
2.006	S8022 Jelson Connection		119.4	OK
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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.009		S8023	19 99.825	0.000	0.000	1.12		
1.010		S8025	19 99.522	-0.228	0.000	0.70		
1.011		S8026	19 99.271	-0.369	0.000	0.32		
4.000		S8068	22 99.126	-0.214	0.000	0.18		
1.012		S8028	19 98.884	-0.210	0.000	0.75		
1.013		S8029	19 98.653	-0.317	0.000	0.45		
1.014		S8030	19 98.383	-0.237	0.000	0.68		
1.015		S8031	19 98.151	-0.309	0.000	0.48		
1.016		S8034	17 97.807	-0.273	0.000	0.32		
1.017		S8037	11 97.869	0.489	6.121	0.38		
1.018	S8039 - Headwall	18	97.334	0.419	0.000	1.72		
1.019	S8051 - Headwall	23	96.900	0.000	0.000	0.88		
1.020	S8052 Control Chamber	7	97.793	0.993	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009		S8023 199.5	OK
1.010		S8025 224.4	OK
1.011		S8026 233.1	OK
4.000		S8068 12.4	OK
1.012		S8028 264.3	OK
1.013		S8029 268.7	OK
1.014		S8030 272.2	OK
1.015		S8031 278.7	OK
1.016		S8034 291.3	OK
1.017		S8037 298.5	FLOOD
1.018	S8039 - Headwall	303.6	SURCHARGED*
1.019	S8051 - Headwall	305.9	SURCHARGED*
1.020	S8052 Control Chamber	11.5	SURCHARGED

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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																																																																																																																																																															
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<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water Level</th><th>Surcharged Depth</th><th>Flooded Volume</th><th>Flow / Overflow</th></tr><tr><th>(m)</th><th>(m)</th><th>(m³)</th><th>Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>34</td><td>102.182</td><td>-0.234</td><td>0.000</td><td>0.11</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>34</td><td>101.865</td><td>-0.224</td><td>0.000</td><td>0.15</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>34</td><td>101.618</td><td>-0.218</td><td>0.000</td><td>0.17</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>34</td><td>101.148</td><td>-0.373</td><td>0.000</td><td>0.07</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>34</td><td>100.899</td><td>-0.357</td><td>0.000</td><td>0.10</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>34</td><td>100.323</td><td>-0.343</td><td>0.000</td><td>0.13</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>34</td><td>99.989</td><td>-0.419</td><td>0.000</td><td>0.09</td></tr><tr><td>1.007</td><td>S8010</td><td>34</td><td>99.721</td><td>-0.374</td><td>0.000</td><td>0.17</td></tr><tr><td>1.008</td><td>S8011</td><td>34</td><td>99.633</td><td>-0.352</td><td>0.000</td><td>0.14</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>34</td><td>100.625</td><td>-0.230</td><td>0.000</td><td>0.12</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>34</td><td>100.245</td><td>-0.194</td><td>0.000</td><td>0.27</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>34</td><td>100.134</td><td>-0.152</td><td>0.000</td><td>0.66</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>34</td><td>100.083</td><td>-0.467</td><td>0.000</td><td>0.03</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>34</td><td>99.910</td><td>-0.433</td><td>0.000</td><td>0.06</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>34</td><td>99.852</td><td>-0.407</td><td>0.000</td><td>0.12</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>34</td><td>99.738</td><td>-0.312</td><td>0.000</td><td>0.21</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>34</td><td>99.716</td><td>-0.262</td><td>0.000</td><td>0.50</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>34</td><td>99.640</td><td>-0.311</td><td>0.000</td><td>0.26</td></tr><tr><td>1.009</td><td>S8023</td><td>34</td><td>99.610</td><td>-0.215</td><td>0.000</td><td>0.65</td></tr><tr><td>1.010</td><td>S8025</td><td>34</td><td>99.416</td><td>-0.334</td><td>0.000</td><td>0.41</td></tr><tr><td>1.011</td><td>S8026</td><td>34</td><td>99.213</td><td>-0.427</td><td>0.000</td><td>0.18</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	(m)	(m)	(m³)	Cap. (l/s)	1.000	S8104 Jelson	34	102.182	-0.234	0.000	0.11	1.001	S8172 Jelson	34	101.865	-0.224	0.000	0.15	1.002	S8105 Jelson	34	101.618	-0.218	0.000	0.17	1.003	S8107 Jelson	34	101.148	-0.373	0.000	0.07	1.004	S8171 Jelson	34	100.899	-0.357	0.000	0.10	1.005	S8170 Jelson	34	100.323	-0.343	0.000	0.13	1.006	S8009 - Jelson Connection	34	99.989	-0.419	0.000	0.09	1.007	S8010	34	99.721	-0.374	0.000	0.17	1.008	S8011	34	99.633	-0.352	0.000	0.14	2.000	S8108 Jelson	34	100.625	-0.230	0.000	0.12	2.001	S8109 Jelson	34	100.245	-0.194	0.000	0.27	2.002	S8110 Jelson	34	100.134	-0.152	0.000	0.66	3.000	S8115 Jelson	34	100.083	-0.467	0.000	0.03	3.001	S8116 Jelson	34	99.910	-0.433	0.000	0.06	2.003	S8111 Jelson	34	99.852	-0.407	0.000	0.12	2.004	S8112 Jelson	34	99.738	-0.312	0.000	0.21	2.005	S8113 Jelson	34	99.716	-0.262	0.000	0.50	2.006	S8022 Jelson Connection	34	99.640	-0.311	0.000	0.26	1.009	S8023	34	99.610	-0.215	0.000	0.65	1.010	S8025	34	99.416	-0.334	0.000	0.41	1.011	S8026	34	99.213	-0.427	0.000	0.18
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Foul Sewage per hectare (l/s)		0.000																																																																																																																																																																			
Number of Input Hydrographs		0	Number of Storage Structures 2																																																																																																																																																																		
Number of Online Controls		1	Number of Time/Area Diagrams 0																																																																																																																																																																		
Number of Offline Controls		0	Number of Real Time Controls 0																																																																																																																																																																		
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Profile(s)		Summer and Winter																																																																																																																																																																			
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Return Period(s) (years)		1, 30, 100																																																																																																																																																																			
Climate Change (%)		0, 0, 40																																																																																																																																																																			
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			Water	Surcharged	Flooded																																																																																																																																																																
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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068 39	99.100	-0.240	0.000	0.09		
1.012		S8028 38	98.745	-0.349	0.000	0.37		
1.013		S8029 38	98.560	-0.410	0.000	0.22		
1.014		S8030 38	98.258	-0.362	0.000	0.33		
1.015		S8031 38	98.056	-0.404	0.000	0.23		
1.016		S8034 11	97.910	-0.170	0.000	0.16		
1.017		S8037 8	97.907	0.527	0.000	0.19		
1.018	S8039 - Headwall	21	97.334	0.419	0.000	0.85		
1.019	S8051 - Headwall	26	96.900	0.000	0.000	0.44		
1.020	S8052 Control Chamber	3	97.903	1.103	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 6.0	OK
1.012		S8028 129.4	OK
1.013		S8029 131.4	OK
1.014		S8030 133.1	OK
1.015		S8031 136.4	OK
1.016		S8034 142.8	OK
1.017		S8037 146.7	FLOOD RISK
1.018	S8039 - Headwall	150.3	SURCHARGED*
1.019	S8051 - Headwall	151.6	SURCHARGED*
1.020	S8052 Control Chamber	11.8	SURCHARGED

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<u>Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 8</u>														
<u>Simulation Criteria</u>														
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow 0.000											
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage 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 2											
Number of Online Controls		1	Number of Time/Area Diagrams 0											
Number of Offline Controls		0	Number of Real Time Controls 0											
<u>Synthetic Rainfall Details</u>														
Rainfall Model		FSR	Ratio R 0.400											
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												
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>Water</th><th>Surcharged</th><th>Flooded</th><th rowspan="2">Flow / Overflow</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></table>					PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow	Level (m)	Depth (m)	Volume (m³)
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Overflow					
			Level (m)	Depth (m)	Volume (m³)									
1.000	S8104 Jelson	42	102.172	-0.244	0.000	0.08								
1.001	S8172 Jelson	42	101.854	-0.235	0.000	0.11								
1.002	S8105 Jelson	42	101.606	-0.230	0.000	0.12								
1.003	S8107 Jelson	42	101.135	-0.386	0.000	0.05								
1.004	S8171 Jelson	42	100.883	-0.373	0.000	0.07								
1.005	S8170 Jelson	42	100.309	-0.357	0.000	0.09								
1.006	S8009 - Jelson Connection	42	99.970	-0.437	0.000	0.07								
1.007	S8010	42	99.693	-0.402	0.000	0.12								
1.008	S8011	42	99.589	-0.396	0.000	0.10								
2.000	S8108 Jelson	42	100.615	-0.240	0.000	0.09								
2.001	S8109 Jelson	42	100.229	-0.210	0.000	0.20								
2.002	S8110 Jelson	42	100.094	-0.192	0.000	0.48								
3.000	S8115 Jelson	42	100.075	-0.475	0.000	0.02								
3.001	S8116 Jelson	42	99.895	-0.448	0.000	0.04								
2.003	S8111 Jelson	42	99.836	-0.423	0.000	0.08								
2.004	S8112 Jelson	42	99.696	-0.354	0.000	0.15								
2.005	S8113 Jelson	42	99.672	-0.306	0.000	0.36								
2.006	S8022 Jelson Connection	42	99.594	-0.357	0.000	0.19								
1.009	S8023	42	99.554	-0.271	0.000	0.47								
1.010	S8025	42	99.372	-0.378	0.000	0.30								
1.011	S8026	42	99.185	-0.455	0.000	0.13								

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 8

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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
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)
1.000	S8104 Jelson	47	102.165	-0.251	0.000	0.06
1.001	S8172 Jelson	47	101.847	-0.242	0.000	0.08
1.002	S8105 Jelson	47	101.599	-0.237	0.000	0.10
1.003	S8107 Jelson	47	101.128	-0.393	0.000	0.04
1.004	S8171 Jelson	47	100.874	-0.382	0.000	0.06
1.005	S8170 Jelson	47	100.297	-0.369	0.000	0.08
1.006	S8009 - Jelson Connection	47	99.960	-0.448	0.000	0.05
1.007	S8010	47	99.680	-0.415	0.000	0.10
1.008	S8011	47	99.569	-0.416	0.000	0.08
2.000	S8108 Jelson	47	100.607	-0.248	0.000	0.07
2.001	S8109 Jelson	47	100.218	-0.221	0.000	0.16
2.002	S8110 Jelson	47	100.071	-0.215	0.000	0.38
3.000	S8115 Jelson	47	100.065	-0.485	0.000	0.02
3.001	S8116 Jelson	47	99.885	-0.458	0.000	0.03
2.003	S8111 Jelson	47	99.822	-0.437	0.000	0.07
2.004	S8112 Jelson	47	99.673	-0.377	0.000	0.12
2.005	S8113 Jelson	47	99.645	-0.333	0.000	0.29
2.006	S8022 Jelson Connection	47	99.568	-0.383	0.000	0.15
1.009	S8023	47	99.522	-0.303	0.000	0.38
1.010	S8025	47	99.346	-0.404	0.000	0.24
1.011	S8026	47	99.170	-0.470	0.000	0.11

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	47 99.088	-0.252	0.000	0.06		
1.012		S8028	47 98.698	-0.397	0.000	0.25		
1.013		S8029	47 98.525	-0.445	0.000	0.15		
1.014		S8030	47 98.213	-0.407	0.000	0.23		
1.015		S8031	47 98.020	-0.440	0.000	0.16		
1.016		S8034	10 97.915	-0.165	0.000	0.11		
1.017		S8037	7 97.911	0.531	0.000	0.13		
1.018	S8039 - Headwall	11	97.334	0.419	0.000	0.59		
1.019	S8051 - Headwall	5	96.900	0.000	0.000	0.30		
1.020	S8052 Control Chamber	2	97.908	1.108	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 4.1	OK
1.012		S8028 89.0	OK
1.013		S8029 90.4	OK
1.014		S8030 91.6	OK
1.015		S8031 93.8	OK
1.016		S8034 98.2	OK
1.017		S8037 100.9	FLOOD RISK
1.018	S8039 - Headwall	103.5	SURCHARGED*
1.019	S8051 - Headwall	104.4	SURCHARGED*
1.020	S8052 Control Chamber	11.8	SURCHARGED

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Innovyze		Network 2020.1.3																																																																																																																																																																				
<u>Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 8</u>																																																																																																																																																																						
<u>Simulation Criteria</u>																																																																																																																																																																						
Areal Reduction Factor		1.000	Additional Flow - % of Total Flow		0.000																																																																																																																																																																	
Hot Start (mins)		0	MADD Factor * 10m³/ha Storage		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		2																																																																																																																																																																	
Number of Online Controls		1	Number of Time/Area Diagrams		0																																																																																																																																																																	
Number of Offline Controls		0	Number of Real Time Controls		0																																																																																																																																																																	
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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																																																																																																																																																																	
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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																																																																																																																																																																				
<table><tr><th></th><th></th><th></th><th>Water</th><th>Surcharged</th><th>Flooded</th><th></th></tr><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>57</td><td>102.157</td><td>-0.259</td><td>0.000</td><td>0.05</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>57</td><td>101.837</td><td>-0.252</td><td>0.000</td><td>0.06</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>57</td><td>101.588</td><td>-0.248</td><td>0.000</td><td>0.07</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>57</td><td>101.121</td><td>-0.400</td><td>0.000</td><td>0.03</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>57</td><td>100.864</td><td>-0.392</td><td>0.000</td><td>0.04</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>57</td><td>100.283</td><td>-0.383</td><td>0.000</td><td>0.05</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>57</td><td>99.948</td><td>-0.459</td><td>0.000</td><td>0.04</td></tr><tr><td>1.007</td><td>S8010</td><td>57</td><td>99.662</td><td>-0.433</td><td>0.000</td><td>0.07</td></tr><tr><td>1.008</td><td>S8011</td><td>57</td><td>99.544</td><td>-0.441</td><td>0.000</td><td>0.06</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>57</td><td>100.598</td><td>-0.257</td><td>0.000</td><td>0.05</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>57</td><td>100.206</td><td>-0.233</td><td>0.000</td><td>0.11</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>57</td><td>100.044</td><td>-0.242</td><td>0.000</td><td>0.28</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>57</td><td>100.054</td><td>-0.496</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>57</td><td>99.876</td><td>-0.467</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>57</td><td>99.808</td><td>-0.451</td><td>0.000</td><td>0.05</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>57</td><td>99.646</td><td>-0.404</td><td>0.000</td><td>0.09</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>57</td><td>99.615</td><td>-0.363</td><td>0.000</td><td>0.21</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>57</td><td>99.541</td><td>-0.410</td><td>0.000</td><td>0.11</td></tr><tr><td>1.009</td><td>S8023</td><td>57</td><td>99.485</td><td>-0.340</td><td>0.000</td><td>0.27</td></tr><tr><td>1.010</td><td>S8025</td><td>57</td><td>99.315</td><td>-0.435</td><td>0.000</td><td>0.17</td></tr><tr><td>1.011</td><td>S8026</td><td>57</td><td>99.149</td><td>-0.491</td><td>0.000</td><td>0.08</td></tr></table>									Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	57	102.157	-0.259	0.000	0.05	1.001	S8172 Jelson	57	101.837	-0.252	0.000	0.06	1.002	S8105 Jelson	57	101.588	-0.248	0.000	0.07	1.003	S8107 Jelson	57	101.121	-0.400	0.000	0.03	1.004	S8171 Jelson	57	100.864	-0.392	0.000	0.04	1.005	S8170 Jelson	57	100.283	-0.383	0.000	0.05	1.006	S8009 - Jelson Connection	57	99.948	-0.459	0.000	0.04	1.007	S8010	57	99.662	-0.433	0.000	0.07	1.008	S8011	57	99.544	-0.441	0.000	0.06	2.000	S8108 Jelson	57	100.598	-0.257	0.000	0.05	2.001	S8109 Jelson	57	100.206	-0.233	0.000	0.11	2.002	S8110 Jelson	57	100.044	-0.242	0.000	0.28	3.000	S8115 Jelson	57	100.054	-0.496	0.000	0.01	3.001	S8116 Jelson	57	99.876	-0.467	0.000	0.02	2.003	S8111 Jelson	57	99.808	-0.451	0.000	0.05	2.004	S8112 Jelson	57	99.646	-0.404	0.000	0.09	2.005	S8113 Jelson	57	99.615	-0.363	0.000	0.21	2.006	S8022 Jelson Connection	57	99.541	-0.410	0.000	0.11	1.009	S8023	57	99.485	-0.340	0.000	0.27	1.010	S8025	57	99.315	-0.435	0.000	0.17	1.011	S8026	57	99.149	-0.491	0.000	0.08
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Bloor Homes		Page 220
Ashby Road Measham Swadlincote DE12 7JP		
Date 13/11/2025 10:52	Designed by d_southa	
File PH7A - FITCHETT STORM. ...	Checked by	
Innovyze		Network 2020.1.3

Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 8

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	57 99.080	-0.260	0.000	0.04		
1.012		S8028	57 98.666	-0.428	0.000	0.18		
1.013		S8029	57 98.502	-0.468	0.000	0.11		
1.014		S8030	57 98.182	-0.438	0.000	0.17		
1.015		S8031	57 97.995	-0.465	0.000	0.12		
1.016		S8034	13 97.870	-0.210	0.000	0.08		
1.017		S8037	12 97.867	0.487	0.000	0.09		
1.018	S8039 - Headwall	25	97.334	0.419	0.000	0.43		
1.019	S8051 - Headwall	30	96.900	0.000	0.000	0.22		
1.020	S8052 Control Chamber	5	97.865	1.065	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 3.0	OK
1.012		S8028 64.3	OK
1.013		S8029 65.3	OK
1.014		S8030 66.2	OK
1.015		S8031 67.8	OK
1.016		S8034 71.0	OK
1.017		S8037 73.0	SURCHARGED
1.018	S8039 - Headwall	74.8	SURCHARGED*
1.019	S8051 - Headwall	75.4	SURCHARGED*
1.020	S8052 Control Chamber	11.7	SURCHARGED