

Bloor Homes		Page 0
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Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 8

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	20.000	Add Flow / Climate Change (%)	0
Ratio R	0.400	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Surface Network 8

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	30.932	0.327	94.6	0.167	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	17.048	0.253	67.4	0.081	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	24.461	0.315	77.7	0.032	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	16.291	0.265	61.5	0.011	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.004	30.319	0.590	51.4	0.257	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.005	14.528	0.258	56.2	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.006	15.635	0.284	55.0	0.000	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.007	30.561	0.110	277.8	0.066	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.008	19.656	0.160	122.8	0.023	0.00	0.0	0.600	o	525	Pipe/Conduit	
2.000	42.890	0.416	103.1	0.184	5.00	0.0	0.600	o	300	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.32	102.116	0.167	0.0	0.0	0.0	1.62	114.3	22.6
1.001	50.00	5.47	101.789	0.248	0.0	0.0	0.0	1.92	135.6	33.6
1.002	50.00	5.70	101.536	0.280	0.0	0.0	0.0	1.79	126.2	37.9
1.003	50.00	5.80	101.071	0.291	0.0	0.0	0.0	2.60	413.0	39.4
1.004	50.00	5.98	100.806	0.548	0.0	0.0	0.0	2.84	451.9	74.2
1.005	50.00	6.07	100.216	0.548	0.0	0.0	0.0	2.72	431.8	74.2
1.006	50.00	6.15	99.883	0.548	0.0	0.0	0.0	3.02	654.8	74.2
1.007	50.00	6.53	99.570	0.614	0.0	0.0	0.0	1.34	289.8	83.1
1.008	50.00	6.70	99.460	0.637	0.0	0.0	0.0	2.02	437.2	86.2
2.000	50.00	5.46	100.555	0.184	0.0	0.0	0.0	1.55	109.4	24.9

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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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PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.017	17.396	0.046	378.2	0.097	0.00	0.0	0.600	o	1000	Pipe/Conduit	
1.018	33.391	0.015	2226.1	0.092	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.019	4.123	0.100	41.2	0.024	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.020	20.322	0.300	67.7	0.000	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)
1.017	50.00	9.48	96.380	2.596	0.0	0.0	0.0	1.71	1345.8	351.5
1.018	48.78	10.58	96.315	2.688	0.0	0.0	0.0	0.51	143.3	355.1
1.019	48.74	10.60	96.300	2.712	0.0	0.0	0.0	3.80	1074.4	358.0
1.020	48.46	10.71	96.200	2.712	0.0	0.0	0.0	2.96	837.4	358.0

Free Flowing Outfall Details for Surface Network 8

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,I (mm)	W (mm)
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1.020	S8053 - Headwall	97.000	95.900	0.000	0	0
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Simulation Criteria for Surface Network 8

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

Number of Input Hydrographs	0	Number of Storage Structures	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	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.400		

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Online Controls for Surface Network 8

Crown Vortex Valve® Manhole: S8052 Control Chamber, DS/PN: 1.020, Volume (m³): 15.0

Design Head (m) 1.400 Vortex Valve® Type R1 SW Only Invert Level (m) 96.200
Design Flow (l/s) 10.6 Diameter (mm) 123

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.1	1.200	9.8	3.000	15.5	7.000	23.7
0.200	4.6	1.400	10.6	3.500	16.7	7.500	24.5
0.300	4.9	1.600	11.3	4.000	17.9	8.000	25.3
0.400	5.7	1.800	12.0	4.500	19.0	8.500	26.1
0.500	6.3	2.000	12.7	5.000	20.0	9.000	26.8
0.600	6.9	2.200	13.3	5.500	21.0	9.500	27.6
0.800	8.0	2.400	13.9	6.000	21.9		
1.000	8.9	2.600	14.4	6.500	22.8		

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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																																																																																																																																																																
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 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>20</td><td>102.210</td><td>-0.206</td><td>0.000</td><td>0.21</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>20</td><td>101.895</td><td>-0.194</td><td>0.000</td><td>0.27</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>20</td><td>101.651</td><td>-0.185</td><td>0.000</td><td>0.31</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>20</td><td>101.176</td><td>-0.345</td><td>0.000</td><td>0.12</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>20</td><td>100.929</td><td>-0.327</td><td>0.000</td><td>0.16</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>20</td><td>100.360</td><td>-0.306</td><td>0.000</td><td>0.22</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>20</td><td>100.021</td><td>-0.386</td><td>0.000</td><td>0.16</td></tr><tr><td>1.007</td><td>S8010</td><td>24</td><td>99.779</td><td>-0.316</td><td>0.000</td><td>0.29</td></tr><tr><td>1.008</td><td>S8011</td><td>24</td><td>99.718</td><td>-0.267</td><td>0.000</td><td>0.21</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>20</td><td>100.655</td><td>-0.200</td><td>0.000</td><td>0.24</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>22</td><td>100.316</td><td>-0.123</td><td>0.000</td><td>0.47</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>22</td><td>100.280</td><td>-0.006</td><td>0.000</td><td>1.00</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>20</td><td>100.104</td><td>-0.446</td><td>0.000</td><td>0.05</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>22</td><td>99.942</td><td>-0.401</td><td>0.000</td><td>0.10</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>22</td><td>99.885</td><td>-0.374</td><td>0.000</td><td>0.18</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>24</td><td>99.814</td><td>-0.236</td><td>0.000</td><td>0.33</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>24</td><td>99.794</td><td>-0.184</td><td>0.000</td><td>0.74</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>24</td><td>99.727</td><td>-0.224</td><td>0.000</td><td>0.37</td></tr><tr><td>1.009</td><td>S8023</td><td>24</td><td>99.702</td><td>-0.123</td><td>0.000</td><td>0.93</td></tr><tr><td>1.010</td><td>S8025</td><td>24</td><td>99.472</td><td>-0.278</td><td>0.000</td><td>0.56</td></tr><tr><td>1.011</td><td>S8026</td><td>24</td><td>99.243</td><td>-0.397</td><td>0.000</td><td>0.25</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	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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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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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><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>21</td><td>102.205</td><td>-0.211</td><td>0.000</td><td>0.19</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>22</td><td>101.890</td><td>-0.199</td><td>0.000</td><td>0.25</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>23</td><td>101.645</td><td>-0.191</td><td>0.000</td><td>0.28</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>23</td><td>101.172</td><td>-0.349</td><td>0.000</td><td>0.11</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>23</td><td>100.923</td><td>-0.333</td><td>0.000</td><td>0.15</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>23</td><td>100.355</td><td>-0.311</td><td>0.000</td><td>0.21</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>23</td><td>100.016</td><td>-0.392</td><td>0.000</td><td>0.15</td></tr><tr><td>1.007</td><td>S8010</td><td>25</td><td>99.772</td><td>-0.323</td><td>0.000</td><td>0.27</td></tr><tr><td>1.008</td><td>S8011</td><td>25</td><td>99.711</td><td>-0.274</td><td>0.000</td><td>0.20</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>21</td><td>100.649</td><td>-0.206</td><td>0.000</td><td>0.22</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>25</td><td>100.286</td><td>-0.153</td><td>0.000</td><td>0.44</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>25</td><td>100.237</td><td>-0.049</td><td>0.000</td><td>1.00</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>21</td><td>100.099</td><td>-0.451</td><td>0.000</td><td>0.05</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>23</td><td>99.938</td><td>-0.405</td><td>0.000</td><td>0.10</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>23</td><td>99.883</td><td>-0.376</td><td>0.000</td><td>0.18</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>25</td><td>99.808</td><td>-0.242</td><td>0.000</td><td>0.32</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>25</td><td>99.789</td><td>-0.189</td><td>0.000</td><td>0.73</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>25</td><td>99.720</td><td>-0.231</td><td>0.000</td><td>0.36</td></tr><tr><td>1.009</td><td>S8023</td><td>25</td><td>99.695</td><td>-0.130</td><td>0.000</td><td>0.91</td></tr><tr><td>1.010</td><td>S8025</td><td>26</td><td>99.469</td><td>-0.281</td><td>0.000</td><td>0.55</td></tr><tr><td>1.011</td><td>S8026</td><td>27</td><td>99.241</td><td>-0.399</td><td>0.000</td><td>0.24</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	21	102.205	-0.211	0.000	0.19	1.001	S8172 Jelson	22	101.890	-0.199	0.000	0.25	1.002	S8105 Jelson	23	101.645	-0.191	0.000	0.28	1.003	S8107 Jelson	23	101.172	-0.349	0.000	0.11	1.004	S8171 Jelson	23	100.923	-0.333	0.000	0.15	1.005	S8170 Jelson	23	100.355	-0.311	0.000	0.21	1.006	S8009 - Jelson Connection	23	100.016	-0.392	0.000	0.15	1.007	S8010	25	99.772	-0.323	0.000	0.27	1.008	S8011	25	99.711	-0.274	0.000	0.20	2.000	S8108 Jelson	21	100.649	-0.206	0.000	0.22	2.001	S8109 Jelson	25	100.286	-0.153	0.000	0.44	2.002	S8110 Jelson	25	100.237	-0.049	0.000	1.00	3.000	S8115 Jelson	21	100.099	-0.451	0.000	0.05	3.001	S8116 Jelson	23	99.938	-0.405	0.000	0.10	2.003	S8111 Jelson	23	99.883	-0.376	0.000	0.18	2.004	S8112 Jelson	25	99.808	-0.242	0.000	0.32	2.005	S8113 Jelson	25	99.789	-0.189	0.000	0.73	2.006	S8022 Jelson Connection	25	99.720	-0.231	0.000	0.36	1.009	S8023	25	99.695	-0.130	0.000	0.91	1.010	S8025	26	99.469	-0.281	0.000	0.55	1.011	S8026	27	99.241	-0.399	0.000	0.24
			Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow																																																																																																																																																															
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1.000	S8104 Jelson	21	102.205	-0.211	0.000	0.19																																																																																																																																																															
1.001	S8172 Jelson	22	101.890	-0.199	0.000	0.25																																																																																																																																																															
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1.004	S8171 Jelson	23	100.923	-0.333	0.000	0.15																																																																																																																																																															
1.005	S8170 Jelson	23	100.355	-0.311	0.000	0.21																																																																																																																																																															
1.006	S8009 - Jelson Connection	23	100.016	-0.392	0.000	0.15																																																																																																																																																															
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1.011	S8026	27	99.241	-0.399	0.000	0.24																																																																																																																																																															
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Bloor Homes		Page 9
Ashby Road Measham Swadlincote DE12 7JP		
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		20.0	OK
1.001	S8172 Jelson		28.5	OK
1.002	S8105 Jelson		31.8	OK
1.003	S8107 Jelson		32.7	OK
1.004	S8171 Jelson		59.3	OK
1.005	S8170 Jelson		59.2	OK
1.006	S8009 - Jelson Connection		59.5	OK
1.007	S8010		65.3	OK
1.008	S8011		62.6	OK
2.000	S8108 Jelson		22.0	OK
2.001	S8109 Jelson		33.8	OK
2.002	S8110 Jelson		40.4	OK
3.000	S8115 Jelson	6	13.6	OK
3.001	S8116 Jelson		21.7	OK
2.003	S8111 Jelson		62.4	OK
2.004	S8112 Jelson		75.2	OK
2.005	S8113 Jelson		87.2	OK
2.006	S8022 Jelson Connection		98.7	OK
1.009	S8023		162.1	OK
1.010	S8025		175.9	OK
1.011	S8026		180.1	OK

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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																		
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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																																																																																																																																																															
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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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Profile(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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Bloor Homes			Page 12	
Ashby Road Measham Swadlincote DE12 7JP				
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 60 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		14.5	OK
1.001	S8172 Jelson		21.0	OK
1.002	S8105 Jelson		23.8	OK
1.003	S8107 Jelson		24.8	OK
1.004	S8171 Jelson		46.0	OK
1.005	S8170 Jelson		46.2	OK
1.006	S8009 - Jelson Connection		46.3	OK
1.007	S8010		51.2	OK
1.008	S8011		51.1	OK
2.000	S8108 Jelson		15.8	OK
2.001	S8109 Jelson		25.9	OK
2.002	S8110 Jelson		32.6	OK
3.000	S8115 Jelson	12	9.9	OK
3.001	S8116 Jelson		16.6	OK
2.003	S8111 Jelson		49.2	OK
2.004	S8112 Jelson		60.2	OK
2.005	S8113 Jelson		71.1	OK
2.006	S8022 Jelson Connection		82.0	OK
1.009	S8023		134.4	OK
1.010	S8025		148.1	OK
1.011	S8026		153.3	OK
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Bloor Homes			Page 14																																																																																																																																																																																					
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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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1.009	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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Bloor Homes			Page 15	
Ashby Road Measham Swadlincote DE12 7JP				
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 120 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		9.7	OK
1.001	S8172 Jelson		14.4	OK
1.002	S8105 Jelson		16.2	OK
1.003	S8107 Jelson		16.8	OK
1.004	S8171 Jelson		31.6	OK
1.005	S8170 Jelson		31.5	OK
1.006	S8009 - Jelson Connection		31.4	OK
1.007	S8010		34.7	OK
1.008	S8011		35.0	OK
2.000	S8108 Jelson		10.7	OK
2.001	S8109 Jelson		17.6	OK
2.002	S8110 Jelson		22.3	OK
3.000	S8115 Jelson	16	6.7	OK
3.001	S8116 Jelson		11.4	OK
2.003	S8111 Jelson		34.0	OK
2.004	S8112 Jelson		41.9	OK
2.005	S8113 Jelson		49.1	OK
2.006	S8022 Jelson Connection		56.9	OK
1.009	S8023		95.7	OK
1.010	S8025		107.0	OK
1.011	S8026		110.7	OK
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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																																							
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Innovyze		Network 2020.1.3																																																																																																																																																																																					
<u>Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 8</u>																																																																																																																																																																																							
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Climate Change (%)		0, 0, 40																																																																																																																																																																																					
<table><tr><th rowspan="2">PN</th><th rowspan="2">US/MH Name</th><th rowspan="2">Storm Rank</th><th>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>44</td><td>102.170</td><td>-0.246</td><td>0.000</td><td>0.08</td><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><td></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><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	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	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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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																																																																																																																																																																																	
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2.000	S8108 Jelson	44	100.613	-0.242	0.000	0.08																																																																																																																																																																																	
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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																																																																																																																																																																																	
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Ashby Road Measham Swadlincote DE12 7JP															
Date 09/04/2026 09:23		Designed by d_southa													
File PH7A - FITCHETT STORM. ...		Checked by													
Innovyze		Network 2020.1.3													
<u>Summary Wizard of 240 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 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	48	102.164	-0.252	0.000	0.06									
1.001	S8172 Jelson	48	101.846	-0.243	0.000	0.08									
1.002	S8105 Jelson	48	101.598	-0.238	0.000	0.10									
1.003	S8107 Jelson	48	101.128	-0.393	0.000	0.04									
1.004	S8171 Jelson	48	100.873	-0.383	0.000	0.05									
1.005	S8170 Jelson	48	100.296	-0.370	0.000	0.07									
1.006	S8009 - Jelson Connection	48	99.959	-0.449	0.000	0.05									
1.007	S8010	48	99.679	-0.416	0.000	0.10									
1.008	S8011	48	99.567	-0.418	0.000	0.08									
2.000	S8108 Jelson	48	100.606	-0.249	0.000	0.07									
2.001	S8109 Jelson	48	100.217	-0.222	0.000	0.15									
2.002	S8110 Jelson	48	100.069	-0.217	0.000	0.37									
3.000	S8115 Jelson	48	100.064	-0.486	0.000	0.02									
3.001	S8116 Jelson	48	99.884	-0.459	0.000	0.03									
2.003	S8111 Jelson	48	99.821	-0.438	0.000	0.06									
2.004	S8112 Jelson	48	99.670	-0.380	0.000	0.12									
2.005	S8113 Jelson	48	99.643	-0.335	0.000	0.28									
2.006	S8022 Jelson Connection	48	99.566	-0.385	0.000	0.14									
1.009	S8023	49	99.519	-0.306	0.000	0.36									
1.010	S8025	49	99.342	-0.408	0.000	0.22									
1.011	S8026	50	99.167	-0.473	0.000	0.10									

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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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<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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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 480 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		3.9	OK
1.001	S8172 Jelson		5.8	OK
1.002	S8105 Jelson		6.5	OK
1.003	S8107 Jelson		6.8	OK
1.004	S8171 Jelson		12.8	OK
1.005	S8170 Jelson		12.8	OK
1.006	S8009 - Jelson Connection		12.8	OK
1.007	S8010		14.3	OK
1.008	S8011		14.8	OK
2.000	S8108 Jelson		4.3	OK
2.001	S8109 Jelson		7.1	OK
2.002	S8110 Jelson		9.1	OK
3.000	S8115 Jelson	40	2.7	OK
3.001	S8116 Jelson		4.6	OK
2.003	S8111 Jelson		13.9	OK
2.004	S8112 Jelson		17.2	OK
2.005	S8113 Jelson		20.4	OK
2.006	S8022 Jelson Connection		23.9	OK
1.009	S8023		39.8	OK
1.010	S8025		44.7	OK
1.011	S8026		46.4	OK
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Bloor Homes			Page 29																																																																																																																																																																
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M5-60 (mm)		20.000	Cv (Winter) 0.840																																																																																																																																																																
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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 30
Ashby Road Measham Swadlincote DE12 7JP		
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 8

PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		3.3	OK
1.001	S8172 Jelson		4.9	OK
1.002	S8105 Jelson		5.5	OK
1.003	S8107 Jelson		5.8	OK
1.004	S8171 Jelson		10.8	OK
1.005	S8170 Jelson		10.8	OK
1.006	S8009 - Jelson Connection		10.8	OK
1.007	S8010		12.2	OK
1.008	S8011		12.6	OK
2.000	S8108 Jelson		3.6	OK
2.001	S8109 Jelson		6.0	OK
2.002	S8110 Jelson		7.8	OK
3.000	S8115 Jelson	50	2.3	OK
3.001	S8116 Jelson		3.9	OK
2.003	S8111 Jelson		11.8	OK
2.004	S8112 Jelson		14.6	OK
2.005	S8113 Jelson		17.4	OK
2.006	S8022 Jelson Connection		20.3	OK
1.009	S8023		33.8	OK
1.010	S8025		38.0	OK
1.011	S8026		39.5	OK

Bloor Homes			Page 32																																																																																																																																																																
Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																			
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1.001	S8172 Jelson	65	101.826	-0.263	0.000	0.04																																																																																																																																																													
1.002	S8105 Jelson	65	101.576	-0.260	0.000	0.04																																																																																																																																																													
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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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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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												
<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	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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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 8</u>				

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<u>Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 8</u>																																																																																																																																																																					
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		Water	Surcharged	Flooded																																																																																																																																																																	
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Innovyze Network 2020.1.3		

Summary Wizard of 15 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	7 102.271	-0.145	0.000	0.52	
1.001	S8172	Jelson	7 101.980	-0.109	0.000	0.72	
1.002	S8105	Jelson	7 101.750	-0.086	0.000	0.83	
1.003	S8107	Jelson	7 101.253	-0.268	0.000	0.33	
1.004	S8171	Jelson	7 101.030	-0.226	0.000	0.49	
1.005	S8170	Jelson	8 100.487	-0.179	0.000	0.65	
1.006	S8009 -	Jelson Connection	8 100.365	-0.043	0.000	0.42	
1.007	S8010		8 100.325	0.230	0.000	0.75	
1.008	S8011		8 100.264	0.279	0.000	0.62	
2.000	S8108	Jelson	8 100.797	-0.058	0.000	0.57	
2.001	S8109	Jelson	8 100.677	0.238	0.000	1.21	
2.002	S8110	Jelson	8 100.492	0.206	0.000	2.88	
3.000	S8115	Jelson	9 100.377	-0.173	0.000	0.12	
3.001	S8116	Jelson	9 100.383	0.040	0.000	0.32	
2.003	S8111	Jelson	8 100.383	0.124	0.000	0.49	
2.004	S8112	Jelson	8 100.355	0.305	0.000	0.79	
2.005	S8113	Jelson	8 100.317	0.339	0.000	1.66	
2.006	S8022	Jelson Connection	8 100.275	0.324	0.000	0.77	
1.009	S8023		8 100.214	0.389	0.000	2.19	
1.010	S8025		9 99.816	0.066	0.000	1.32	
1.011	S8026		9 99.374	-0.266	0.000	0.59	

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 15 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		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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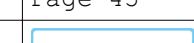
Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 8

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (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	24 97.796	-0.284	0.000	0.54	
1.017		S8037	32 97.279	-0.101	0.000	0.62	
1.018	S8039 - Headwall	34	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	53	96.742	-0.058	0.000	0.01	

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	6.6	OK

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Innovyze		Network 2020.1.3												
<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											
<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	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								

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

PN	US/MH Name	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
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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Ashby Road Measham Swadlincote DE12 7JP		
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Innovyze		Network 2020.1.3

Summary Wizard of 30 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	11 99.205	-0.135	0.000	0.43		
1.012		S8028	11 99.169	0.074	0.000	1.34		
1.013		S8029	11 98.898	-0.072	0.000	0.81		
1.014		S8030	11 98.665	0.045	0.000	1.21		
1.015		S8031	11 98.284	-0.176	0.000	0.83		
1.016		S8034	22 97.799	-0.281	0.000	0.55		
1.017		S8037	29 97.292	-0.088	0.000	0.63		
1.018	S8039 - Headwall	33	97.263	0.348	0.000	2.81		
1.019	S8051 - Headwall	33	96.900	0.000	0.000	1.43		
1.020	S8052 Control Chamber	46	96.853	0.053	0.000	0.01		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 29.6	OK
1.012		S8028 474.2	SURCHARGED
1.013		S8029 480.4	OK
1.014		S8030 483.8	SURCHARGED
1.015		S8031 486.7	OK
1.016		S8034 501.2	OK
1.017		S8037 497.9	OK
1.018	S8039 - Headwall	494.8	SURCHARGED*
1.019	S8051 - Headwall	495.1	SURCHARGED*
1.020	S8052 Control Chamber	7.2	SURCHARGED

Bloor Homes			Page 47																																																																																																																																																																		
Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																					
Date 09/04/2026 09:23		Designed by d_southa																																																																																																																																																																			
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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>																																																																																																																																																																					
<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																																																																																																																																																																		
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Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><thead><tr><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 / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>12</td><td>102.237</td><td>-0.179</td><td>0.000</td><td>0.34</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>12</td><td>101.933</td><td>-0.156</td><td>0.000</td><td>0.45</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>12</td><td>101.694</td><td>-0.142</td><td>0.000</td><td>0.52</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>12</td><td>101.214</td><td>-0.307</td><td>0.000</td><td>0.21</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>12</td><td>100.979</td><td>-0.277</td><td>0.000</td><td>0.30</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>12</td><td>100.421</td><td>-0.245</td><td>0.000</td><td>0.40</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>13</td><td>100.093</td><td>-0.315</td><td>0.000</td><td>0.28</td></tr><tr><td>1.007</td><td>S8010</td><td>13</td><td>100.060</td><td>-0.035</td><td>0.000</td><td>0.52</td></tr><tr><td>1.008</td><td>S8011</td><td>13</td><td>100.023</td><td>0.038</td><td>0.000</td><td>0.42</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>12</td><td>100.684</td><td>-0.171</td><td>0.000</td><td>0.37</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>12</td><td>100.419</td><td>-0.020</td><td>0.000</td><td>0.84</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>12</td><td>100.304</td><td>0.018</td><td>0.000</td><td>2.04</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>13</td><td>100.168</td><td>-0.382</td><td>0.000</td><td>0.08</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>13</td><td>100.141</td><td>-0.202</td><td>0.000</td><td>0.17</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>13</td><td>100.132</td><td>-0.127</td><td>0.000</td><td>0.33</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>13</td><td>100.105</td><td>0.055</td><td>0.000</td><td>0.58</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>13</td><td>100.072</td><td>0.094</td><td>0.000</td><td>1.33</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>13</td><td>100.037</td><td>0.086</td><td>0.000</td><td>0.66</td></tr><tr><td>1.009</td><td>S8023</td><td>13</td><td>99.990</td><td>0.165</td><td>0.000</td><td>1.75</td></tr><tr><td>1.010</td><td>S8025</td><td>13</td><td>99.751</td><td>0.001</td><td>0.000</td><td>1.08</td></tr><tr><td>1.011</td><td>S8026</td><td>14</td><td>99.332</td><td>-0.308</td><td>0.000</td><td>0.48</td></tr></tbody></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	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
		Water	Surcharged	Flooded																																																																																																																																																																	
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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																																																																																																																																																															
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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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Innovyze		Network 2020.1.3

Summary Wizard of 60 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	14 99.159	-0.181	0.000	0.32		
1.012		S8028	14 99.097	0.003	0.000	1.10		
1.013		S8029	14 98.734	-0.236	0.000	0.66		
1.014		S8030	14 98.552	-0.068	0.000	0.99		
1.015		S8031	14 98.232	-0.228	0.000	0.70		
1.016		S8034	27 97.767	-0.313	0.000	0.46		
1.017		S8037	41 97.174	-0.206	0.000	0.54		
1.018	S8039 - Headwall	43	97.149	0.234	0.000	2.43		
1.019	S8051 - Headwall	34	96.900	0.000	0.000	1.24		
1.020	S8052 Control Chamber	44	96.960	0.160	0.000	0.01		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 21.9	OK
1.012		S8028 389.4	SURCHARGED
1.013		S8029 389.8	OK
1.014		S8030 397.7	OK
1.015		S8031 406.4	OK
1.016		S8034 419.7	OK
1.017		S8037 426.8	OK
1.018	S8039 - Headwall	427.7	SURCHARGED*
1.019	S8051 - Headwall	430.6	SURCHARGED*
1.020	S8052 Control Chamber	7.8	SURCHARGED

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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																														
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<u>Summary Wizard of 120 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																																																																																																																																																											
<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>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>19</td><td>102.211</td><td>-0.205</td><td>0.000</td><td>0.22</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>18</td><td>101.900</td><td>-0.189</td><td>0.000</td><td>0.29</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>18</td><td>101.657</td><td>-0.179</td><td>0.000</td><td>0.34</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>18</td><td>101.181</td><td>-0.340</td><td>0.000</td><td>0.14</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>18</td><td>100.939</td><td>-0.317</td><td>0.000</td><td>0.19</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>18</td><td>100.372</td><td>-0.294</td><td>0.000</td><td>0.26</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>18</td><td>100.034</td><td>-0.374</td><td>0.000</td><td>0.18</td></tr><tr><td>1.007</td><td>S8010</td><td>18</td><td>99.893</td><td>-0.202</td><td>0.000</td><td>0.34</td></tr><tr><td>1.008</td><td>S8011</td><td>18</td><td>99.867</td><td>-0.118</td><td>0.000</td><td>0.26</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>19</td><td>100.656</td><td>-0.199</td><td>0.000</td><td>0.25</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>18</td><td>100.334</td><td>-0.105</td><td>0.000</td><td>0.54</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>21</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.32</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>19</td><td>100.105</td><td>-0.445</td><td>0.000</td><td>0.06</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>18</td><td>99.988</td><td>-0.355</td><td>0.000</td><td>0.11</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>18</td><td>99.966</td><td>-0.293</td><td>0.000</td><td>0.22</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>18</td><td>99.946</td><td>-0.104</td><td>0.000</td><td>0.39</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>18</td><td>99.922</td><td>-0.056</td><td>0.000</td><td>0.92</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>18</td><td>99.879</td><td>-0.072</td><td>0.000</td><td>0.47</td></tr><tr><td>1.009</td><td>S8023</td><td>18</td><td>99.845</td><td>0.020</td><td>0.000</td><td>1.21</td></tr><tr><td>1.010</td><td>S8025</td><td>18</td><td>99.550</td><td>-0.200</td><td>0.000</td><td>0.76</td></tr><tr><td>1.011</td><td>S8026</td><td>18</td><td>99.284</td><td>-0.356</td><td>0.000</td><td>0.34</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (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
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (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>				
PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S8104 Jelson		22.8	OK
1.001	S8172 Jelson		33.8	OK
1.002	S8105 Jelson		38.1	OK
1.003	S8107 Jelson		39.5	OK
1.004	S8171 Jelson		74.7	OK
1.005	S8170 Jelson		74.6	OK
1.006	S8009 - Jelson Connection		74.5	OK
1.007	S8010		82.0	OK
1.008	S8011		81.2	OK
2.000	S8108 Jelson		25.0	OK
2.001	S8109 Jelson		41.4	OK
2.002	S8110 Jelson		53.3	OK
3.000	S8115 Jelson	20	15.6	OK
3.001	S8116 Jelson		25.2	OK
2.003	S8111 Jelson		76.2	OK
2.004	S8112 Jelson		93.2	OK
2.005	S8113 Jelson		108.9	OK
2.006	S8022 Jelson Connection		126.7	OK
1.009	S8023		215.6	SURCHARGED
1.010	S8025		242.9	OK
1.011	S8026		251.7	OK
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Innovyze		Network 2020.1.3													
<u>Summary Wizard of 180 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													
<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	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									
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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	33 97.692	-0.388	0.000	0.27		
1.017		S8037	47 97.109	-0.271	0.000	0.32		
1.018	S8039 - Headwall	46	97.108	0.193	0.000	1.51		
1.019	S8051 - Headwall	36	96.900	0.000	0.000	0.75		
1.020	S8052 Control Chamber	40	97.106	0.306	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	261.8	SURCHARGED*
1.020	S8052 Control Chamber	8.5	SURCHARGED

Bloor Homes			Page 56																																																																																																																																																																																				
Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																																							
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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>29</td><td>102.190</td><td>-0.226</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>29</td><td>101.876</td><td>-0.213</td><td>0.000</td><td>0.19</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>29</td><td>101.630</td><td>-0.206</td><td>0.000</td><td>0.21</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>28</td><td>101.160</td><td>-0.361</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>28</td><td>100.910</td><td>-0.346</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>28</td><td>100.338</td><td>-0.328</td><td>0.000</td><td>0.17</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>28</td><td>100.001</td><td>-0.407</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>28</td><td>99.751</td><td>-0.344</td><td>0.000</td><td>0.22</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>28</td><td>99.679</td><td>-0.306</td><td>0.000</td><td>0.18</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>29</td><td>100.634</td><td>-0.221</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>29</td><td>100.261</td><td>-0.178</td><td>0.000</td><td>0.34</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>28</td><td>100.175</td><td>-0.111</td><td>0.000</td><td>0.84</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>29</td><td>100.089</td><td>-0.461</td><td>0.000</td><td>0.04</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>28</td><td>99.925</td><td>-0.418</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>28</td><td>99.868</td><td>-0.391</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>28</td><td>99.777</td><td>-0.273</td><td>0.000</td><td>0.27</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>28</td><td>99.758</td><td>-0.220</td><td>0.000</td><td>0.63</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>28</td><td>99.688</td><td>-0.263</td><td>0.000</td><td>0.32</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>28</td><td>99.664</td><td>-0.161</td><td>0.000</td><td>0.81</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>29</td><td>99.454</td><td>-0.296</td><td>0.000</td><td>0.50</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>29</td><td>99.234</td><td>-0.406</td><td>0.000</td><td>0.23</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	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	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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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																																																																																																																																																																																	
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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																																																																																																																																																																																	
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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 240 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		14.4	OK
1.001	S8172 Jelson		21.4	OK
1.002	S8105 Jelson		24.2	OK
1.003	S8107 Jelson		25.1	OK
1.004	S8171 Jelson		47.4	OK
1.005	S8170 Jelson		47.3	OK
1.006	S8009 - Jelson Connection		47.3	OK
1.007	S8010		52.9	OK
1.008	S8011		54.1	OK
2.000	S8108 Jelson		15.9	OK
2.001	S8109 Jelson		26.2	OK
2.002	S8110 Jelson		33.7	OK
3.000	S8115 Jelson	32	9.9	OK
3.001	S8116 Jelson		17.1	OK
2.003	S8111 Jelson		51.3	OK
2.004	S8112 Jelson		63.4	OK
2.005	S8113 Jelson		74.9	OK
2.006	S8022 Jelson Connection		87.2	OK
1.009	S8023		144.3	OK
1.010	S8025		161.6	OK
1.011	S8026		167.6	OK
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Innovyze		Network 2020.1.3

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	45 97.138	-0.242	0.000	0.27		
1.018	S8039 - Headwall	45	97.137	0.222	0.000	1.27		
1.019	S8051 - Headwall	37	96.900	0.000	0.000	0.63		
1.020	S8052 Control Chamber	38	97.135	0.335	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	220.2	SURCHARGED*
1.020	S8052 Control Chamber	8.7	SURCHARGED

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Summary Wizard of 360 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	37 102.180	-0.236	0.000	0.10	
1.001	S8172	Jelson	37 101.862	-0.227	0.000	0.14	
1.002	S8105	Jelson	37 101.615	-0.221	0.000	0.16	
1.003	S8107	Jelson	37 101.144	-0.377	0.000	0.06	
1.004	S8171	Jelson	37 100.896	-0.360	0.000	0.09	
1.005	S8170	Jelson	37 100.320	-0.346	0.000	0.12	
1.006	S8009 -	Jelson Connection	37 99.985	-0.423	0.000	0.08	
1.007	S8010		37 99.714	-0.381	0.000	0.16	
1.008	S8011		37 99.621	-0.364	0.000	0.13	
2.000	S8108	Jelson	37 100.622	-0.233	0.000	0.11	
2.001	S8109	Jelson	37 100.241	-0.198	0.000	0.25	
2.002	S8110	Jelson	37 100.124	-0.162	0.000	0.62	
3.000	S8115	Jelson	37 100.081	-0.469	0.000	0.03	
3.001	S8116	Jelson	37 99.906	-0.437	0.000	0.06	
2.003	S8111	Jelson	37 99.848	-0.411	0.000	0.11	
2.004	S8112	Jelson	37 99.727	-0.323	0.000	0.20	
2.005	S8113	Jelson	37 99.705	-0.273	0.000	0.47	
2.006	S8022	Jelson Connection	37 99.628	-0.323	0.000	0.24	
1.009	S8023		37 99.595	-0.230	0.000	0.60	
1.010	S8025		37 99.405	-0.345	0.000	0.38	
1.011	S8026		37 99.206	-0.434	0.000	0.17	

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Summary Wizard of 360 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	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	42 97.173	-0.207	0.000	0.20		
1.018	S8039 - Headwall	41	97.172	0.257	0.000	0.93		
1.019	S8051 - Headwall	38	96.900	0.000	0.000	0.47		
1.020	S8052 Control Chamber	35	97.170	0.370	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
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 159.0	OK
1.018	S8039 - Headwall	163.2	SURCHARGED*
1.019	S8051 - Headwall	161.8	SURCHARGED*
1.020	S8052 Control Chamber	8.8	SURCHARGED

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Ashby Road Measham Swadlincote DE12 7JP		
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Innovyze		Network 2020.1.3

Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 8

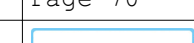
PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000		S8068	41 99.096	-0.244	0.000	0.08		
1.012		S8028	41 98.729	-0.366	0.000	0.32		
1.013		S8029	41 98.550	-0.420	0.000	0.20		
1.014		S8030	41 98.241	-0.379	0.000	0.29		
1.015		S8031	41 98.044	-0.416	0.000	0.20		
1.016		S8034	45 97.627	-0.453	0.000	0.14		
1.017		S8037	39 97.189	-0.191	0.000	0.16		
1.018	S8039 - Headwall	39	97.189	0.274	0.000	0.74		
1.019	S8051 - Headwall	39	96.900	0.000	0.000	0.37		
1.020	S8052 Control Chamber	33	97.187	0.387	0.000	0.02		

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	5.3	OK
1.012		S8028	114.4	OK
1.013		S8029	115.7	OK
1.014		S8030	117.1	OK
1.015		S8031	119.3	OK
1.016		S8034	124.5	OK
1.017		S8037	127.2	OK
1.018	S8039 - Headwall	130.0		SURCHARGED*
1.019	S8051 - Headwall	129.0		SURCHARGED*
1.020	S8052 Control Chamber	8.9		SURCHARGED

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Innovyze		Network 2020.1.3													
<u>Summary Wizard of 720 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													
<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	51	102.163	-0.253	0.000	0.06									
1.001	S8172 Jelson	51	101.845	-0.244	0.000	0.08									
1.002	S8105 Jelson	51	101.597	-0.239	0.000	0.09									
1.003	S8107 Jelson	51	101.127	-0.394	0.000	0.04									
1.004	S8171 Jelson	51	100.872	-0.384	0.000	0.05									
1.005	S8170 Jelson	51	100.294	-0.372	0.000	0.07									
1.006	S8009 - Jelson Connection	51	99.957	-0.450	0.000	0.05									
1.007	S8010	51	99.677	-0.418	0.000	0.09									
1.008	S8011	51	99.565	-0.420	0.000	0.08									
2.000	S8108 Jelson	51	100.605	-0.250	0.000	0.07									
2.001	S8109 Jelson	51	100.215	-0.224	0.000	0.15									
2.002	S8110 Jelson	51	100.066	-0.220	0.000	0.36									
3.000	S8115 Jelson	51	100.062	-0.488	0.000	0.02									
3.001	S8116 Jelson	51	99.883	-0.460	0.000	0.03									
2.003	S8111 Jelson	51	99.819	-0.440	0.000	0.06									
2.004	S8112 Jelson	51	99.667	-0.383	0.000	0.12									
2.005	S8113 Jelson	51	99.639	-0.339	0.000	0.27									
2.006	S8022 Jelson Connection	51	99.562	-0.389	0.000	0.14									
1.009	S8023	51	99.515	-0.310	0.000	0.35									
1.010	S8025	51	99.340	-0.410	0.000	0.22									
1.011	S8026	51	99.166	-0.474	0.000	0.10									

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 720 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		6.2	OK
1.001	S8172 Jelson		9.2	OK
1.002	S8105 Jelson		10.3	OK
1.003	S8107 Jelson		10.8	OK
1.004	S8171 Jelson		20.2	OK
1.005	S8170 Jelson		20.2	OK
1.006	S8009 - Jelson Connection		20.2	OK
1.007	S8010		22.7	OK
1.008	S8011		23.5	OK
2.000	S8108 Jelson		6.8	OK
2.001	S8109 Jelson		11.2	OK
2.002	S8110 Jelson		14.5	OK
3.000	S8115 Jelson	72	4.2	OK
3.001	S8116 Jelson		7.3	OK
2.003	S8111 Jelson		22.1	OK
2.004	S8112 Jelson		27.3	OK
2.005	S8113 Jelson		32.4	OK
2.006	S8022 Jelson Connection		37.9	OK
1.009	S8023		63.2	OK
1.010	S8025		71.0	OK
1.011	S8026		73.7	OK
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Ashby Road Measham Swadlincote DE12 7JP		 Micro Drainage
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Innovyze	Network 2020.1.3	

Summary Wizard of 720 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	51 99.086	-0.254	0.000	0.06		
1.012		S8028	51 98.691	-0.403	0.000	0.24		
1.013		S8029	51 98.520	-0.450	0.000	0.14		
1.014		S8030	51 98.208	-0.412	0.000	0.21		
1.015		S8031	51 98.015	-0.445	0.000	0.15		
1.016		S8034	52 97.607	-0.473	0.000	0.10		
1.017		S8037	38 97.191	-0.189	0.000	0.12		
1.018	S8039 - Headwall	38	97.190	0.275	0.000	0.55		
1.019	S8051 - Headwall	41	96.900	0.000	0.000	0.28		
1.020	S8052 Control Chamber	32	97.189	0.389	0.000	0.02		

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	3.9	OK
1.012		S8028	83.7	OK
1.013		S8029	85.0	OK
1.014		S8030	86.1	OK
1.015		S8031	88.2	OK
1.016		S8034	92.3	OK
1.017		S8037	94.8	OK
1.018	S8039 - Headwall		96.6	SURCHARGED*
1.019	S8051 - Headwall		96.0	SURCHARGED*
1.020	S8052 Control Chamber		8.9	SURCHARGED

Bloor Homes			Page 71																																																																																																																																																																
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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>54</td><td>102.158</td><td>-0.258</td><td>0.000</td><td>0.05</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>54</td><td>101.838</td><td>-0.251</td><td>0.000</td><td>0.06</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>54</td><td>101.589</td><td>-0.247</td><td>0.000</td><td>0.07</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>54</td><td>101.122</td><td>-0.399</td><td>0.000</td><td>0.03</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>54</td><td>100.865</td><td>-0.391</td><td>0.000</td><td>0.04</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>54</td><td>100.285</td><td>-0.381</td><td>0.000</td><td>0.06</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>54</td><td>99.950</td><td>-0.458</td><td>0.000</td><td>0.04</td></tr><tr><td>1.007</td><td>S8010</td><td>54</td><td>99.664</td><td>-0.431</td><td>0.000</td><td>0.07</td></tr><tr><td>1.008</td><td>S8011</td><td>54</td><td>99.547</td><td>-0.438</td><td>0.000</td><td>0.06</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>54</td><td>100.599</td><td>-0.256</td><td>0.000</td><td>0.05</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>54</td><td>100.207</td><td>-0.232</td><td>0.000</td><td>0.12</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>54</td><td>100.047</td><td>-0.239</td><td>0.000</td><td>0.29</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>54</td><td>100.055</td><td>-0.495</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>54</td><td>99.877</td><td>-0.466</td><td>0.000</td><td>0.03</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>54</td><td>99.809</td><td>-0.450</td><td>0.000</td><td>0.05</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>54</td><td>99.648</td><td>-0.402</td><td>0.000</td><td>0.09</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>54</td><td>99.618</td><td>-0.360</td><td>0.000</td><td>0.22</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>54</td><td>99.544</td><td>-0.407</td><td>0.000</td><td>0.11</td></tr><tr><td>1.009</td><td>S8023</td><td>54</td><td>99.489</td><td>-0.336</td><td>0.000</td><td>0.28</td></tr><tr><td>1.010</td><td>S8025</td><td>54</td><td>99.318</td><td>-0.431</td><td>0.000</td><td>0.18</td></tr><tr><td>1.011</td><td>S8026</td><td>54</td><td>99.152</td><td>-0.488</td><td>0.000</td><td>0.08</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	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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Summary Wizard of 960 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	54 99.081	-0.259	0.000	0.05		
1.012		S8028	54 98.670	-0.424	0.000	0.19		
1.013		S8029	54 98.504	-0.466	0.000	0.11		
1.014		S8030	54 98.186	-0.434	0.000	0.17		
1.015		S8031	54 97.998	-0.462	0.000	0.12		
1.016		S8034	55 97.593	-0.487	0.000	0.08		
1.017		S8037	40 97.182	-0.198	0.000	0.10		
1.018	S8039 - Headwall	40	97.182	0.267	0.000	0.44		
1.019	S8051 - Headwall	42	96.900	0.000	0.000	0.22		
1.020	S8052 Control Chamber	34	97.180	0.380	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 3.1	OK
1.012		S8028 66.8	OK
1.013		S8029 67.8	OK
1.014		S8030 68.7	OK
1.015		S8031 70.4	OK
1.016		S8034 73.7	OK
1.017		S8037 75.8	OK
1.018	S8039 - Headwall	77.2	SURCHARGED*
1.019	S8051 - Headwall	76.8	SURCHARGED*
1.020	S8052 Control Chamber	8.9	SURCHARGED

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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	9	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	42	97.039	0.239	0.000	0.01	

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	8.2	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	2.24
2.006	S8022 Jelson Connection	3	101.464	1.513	0.000	1.09

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<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	179.0	FLOOD RISK
3.001	S8116 Jelson		187.4	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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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. (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	3 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	29	97.224	0.424	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	9.1	SURCHARGED

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Innovyze		Network 2020.1.3													
<u>Summary Wizard of 60 minute 100 year Summer 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	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									

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 8</u>				
		Half Drain	Pipe	
	US/MH	Time	Flow	
PN	Name	(mins)	(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		186.5	SURCHARGED
1.007	S8010		205.4	SURCHARGED
1.008	S8011		212.5	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	133.5	SURCHARGED
3.001	S8116 Jelson		151.2	SURCHARGED
2.003	S8111 Jelson		214.7	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				
<u>Summary Wizard of 120 minute 100 year Summer 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				
			Water	Surcharged	Flooded	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)
1.000	S8104 Jelson	11	102.248	-0.168	0.000	0.40
1.001	S8172 Jelson	11	101.946	-0.143	0.000	0.54
1.002	S8105 Jelson	11	101.708	-0.128	0.000	0.62
1.003	S8107 Jelson	11	101.224	-0.297	0.000	0.25
1.004	S8171 Jelson	11	100.991	-0.265	0.000	0.35
1.005	S8170 Jelson	11	100.436	-0.230	0.000	0.48
1.006	S8009 - Jelson Connection	9	100.313	-0.095	0.000	0.33
1.007	S8010	9	100.279	0.184	0.000	0.61
1.008	S8011	9	100.234	0.249	0.000	0.49
2.000	S8108 Jelson	11	100.697	-0.158	0.000	0.45
2.001	S8109 Jelson	9	100.595	0.156	0.000	0.95
2.002	S8110 Jelson	9	100.455	0.169	0.000	2.29
3.000	S8115 Jelson	8	100.388	-0.162	0.000	0.11
3.001	S8116 Jelson	8	100.385	0.042	0.000	0.23
2.003	S8111 Jelson	9	100.376	0.117	0.000	0.40
2.004	S8112 Jelson	9	100.345	0.295	0.000	0.71
2.005	S8113 Jelson	9	100.305	0.327	0.000	1.63
2.006	S8022 Jelson Connection	9	100.261	0.310	0.000	0.82
1.009	S8023	9	100.193	0.368	0.000	2.14
1.010	S8025	8	99.819	0.069	0.000	1.33
1.011	S8026	8	99.427	-0.213	0.000	0.60
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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

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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																													
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<u>Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 8</u>																																																																																																																																																													
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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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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																																																																																																																																																											
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Analysis Timestep		Fine Inertia Status OFF																																																																																																																																																											
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Profile(s)		Summer and Winter																																																																																																																																																											
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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																							
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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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Ashby Road Measham Swadlincote DE12 7JP		 Micro Drainage
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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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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	18 97.813	-0.267	0.000	0.48		
1.017		S8037	24 97.641	0.261	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	97.635	0.835	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 442.5	OK
1.017		S8037 449.7	SURCHARGED
1.018	S8039 - Headwall	458.6	SURCHARGED*
1.019	S8051 - Headwall	460.2	SURCHARGED*
1.020	S8052 Control Chamber	10.7	SURCHARGED

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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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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																						
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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></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>23</td><td>102.203</td><td>-0.213</td><td>0.000</td><td>0.18</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>23</td><td>101.890</td><td>-0.199</td><td>0.000</td><td>0.25</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>22</td><td>101.645</td><td>-0.191</td><td>0.000</td><td>0.29</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>22</td><td>101.172</td><td>-0.349</td><td>0.000</td><td>0.12</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>22</td><td>100.927</td><td>-0.329</td><td>0.000</td><td>0.16</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>22</td><td>100.358</td><td>-0.308</td><td>0.000</td><td>0.22</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>22</td><td>100.019</td><td>-0.388</td><td>0.000</td><td>0.15</td></tr><tr><td>1.007</td><td>S8010</td><td>20</td><td>99.867</td><td>-0.228</td><td>0.000</td><td>0.29</td></tr><tr><td>1.008</td><td>S8011</td><td>20</td><td>99.844</td><td>-0.141</td><td>0.000</td><td>0.23</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>23</td><td>100.647</td><td>-0.208</td><td>0.000</td><td>0.21</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>21</td><td>100.326</td><td>-0.113</td><td>0.000</td><td>0.46</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>18</td><td>100.286</td><td>0.000</td><td>0.000</td><td>1.12</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>23</td><td>100.098</td><td>-0.452</td><td>0.000</td><td>0.05</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>20</td><td>99.960</td><td>-0.383</td><td>0.000</td><td>0.10</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>20</td><td>99.929</td><td>-0.330</td><td>0.000</td><td>0.19</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>20</td><td>99.908</td><td>-0.142</td><td>0.000</td><td>0.34</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>20</td><td>99.886</td><td>-0.092</td><td>0.000</td><td>0.81</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>20</td><td>99.854</td><td>-0.097</td><td>0.000</td><td>0.41</td></tr><tr><td>1.009</td><td>S8023</td><td>20</td><td>99.825</td><td>0.000</td><td>0.000</td><td>1.04</td></tr><tr><td>1.010</td><td>S8025</td><td>20</td><td>99.508</td><td>-0.241</td><td>0.000</td><td>0.65</td></tr><tr><td>1.011</td><td>S8026</td><td>20</td><td>99.262</td><td>-0.378</td><td>0.000</td><td>0.29</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	23	102.203	-0.213	0.000	0.18	1.001	S8172 Jelson	23	101.890	-0.199	0.000	0.25	1.002	S8105 Jelson	22	101.645	-0.191	0.000	0.29	1.003	S8107 Jelson	22	101.172	-0.349	0.000	0.12	1.004	S8171 Jelson	22	100.927	-0.329	0.000	0.16	1.005	S8170 Jelson	22	100.358	-0.308	0.000	0.22	1.006	S8009 - Jelson Connection	22	100.019	-0.388	0.000	0.15	1.007	S8010	20	99.867	-0.228	0.000	0.29	1.008	S8011	20	99.844	-0.141	0.000	0.23	2.000	S8108 Jelson	23	100.647	-0.208	0.000	0.21	2.001	S8109 Jelson	21	100.326	-0.113	0.000	0.46	2.002	S8110 Jelson	18	100.286	0.000	0.000	1.12	3.000	S8115 Jelson	23	100.098	-0.452	0.000	0.05	3.001	S8116 Jelson	20	99.960	-0.383	0.000	0.10	2.003	S8111 Jelson	20	99.929	-0.330	0.000	0.19	2.004	S8112 Jelson	20	99.908	-0.142	0.000	0.34	2.005	S8113 Jelson	20	99.886	-0.092	0.000	0.81	2.006	S8022 Jelson Connection	20	99.854	-0.097	0.000	0.41	1.009	S8023	20	99.825	0.000	0.000	1.04	1.010	S8025	20	99.508	-0.241	0.000	0.65	1.011	S8026	20	99.262	-0.378	0.000	0.29
			Water	Surcharged	Flooded																																																																																																																																																																	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																																
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1.001	S8172 Jelson	23	101.890	-0.199	0.000	0.25																																																																																																																																																																
1.002	S8105 Jelson	22	101.645	-0.191	0.000	0.29																																																																																																																																																																
1.003	S8107 Jelson	22	101.172	-0.349	0.000	0.12																																																																																																																																																																
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1.005	S8170 Jelson	22	100.358	-0.308	0.000	0.22																																																																																																																																																																
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2.001	S8109 Jelson	21	100.326	-0.113	0.000	0.46																																																																																																																																																																
2.002	S8110 Jelson	18	100.286	0.000	0.000	1.12																																																																																																																																																																
3.000	S8115 Jelson	23	100.098	-0.452	0.000	0.05																																																																																																																																																																
3.001	S8116 Jelson	20	99.960	-0.383	0.000	0.10																																																																																																																																																																
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2.004	S8112 Jelson	20	99.908	-0.142	0.000	0.34																																																																																																																																																																
2.005	S8113 Jelson	20	99.886	-0.092	0.000	0.81																																																																																																																																																																
2.006	S8022 Jelson Connection	20	99.854	-0.097	0.000	0.41																																																																																																																																																																
1.009	S8023	20	99.825	0.000	0.000	1.04																																																																																																																																																																
1.010	S8025	20	99.508	-0.241	0.000	0.65																																																																																																																																																																
1.011	S8026	20	99.262	-0.378	0.000	0.29																																																																																																																																																																
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Summary Wizard of 360 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	23 99.125	-0.215	0.000	0.18		
1.012		S8028	20 98.863	-0.231	0.000	0.69		
1.013		S8029	20 98.639	-0.331	0.000	0.42		
1.014		S8030	20 98.364	-0.256	0.000	0.63		
1.015		S8031	20 98.138	-0.322	0.000	0.44		
1.016		S8034	28 97.755	-0.325	0.000	0.29		
1.017		S8037	21 97.749	0.369	0.000	0.35		
1.018	S8039 - Headwall	6	97.334	0.419	0.000	1.60		
1.019	S8051 - Headwall	29	96.900	0.000	0.000	0.82		
1.020	S8052 Control Chamber	14	97.745	0.945	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 12.1	OK
1.012		S8028 244.1	OK
1.013		S8029 248.6	OK
1.014		S8030 252.0	OK
1.015		S8031 258.3	OK
1.016		S8034 269.5	OK
1.017		S8037 276.2	SURCHARGED
1.018	S8039 - Headwall	282.2	SURCHARGED*
1.019	S8051 - Headwall	284.4	SURCHARGED*
1.020	S8052 Control Chamber	11.1	SURCHARGED

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Summary Wizard of 480 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	27 99.115	-0.225	0.000	0.14		
1.012		S8028	24 98.825	-0.269	0.000	0.58		
1.013		S8029	24 98.616	-0.354	0.000	0.35		
1.014		S8030	24 98.331	-0.289	0.000	0.53		
1.015		S8031	24 98.114	-0.346	0.000	0.37		
1.016		S8034	25 97.787	-0.293	0.000	0.24		
1.017		S8037	19 97.783	0.403	0.000	0.29		
1.018	S8039 - Headwall	7	97.334	0.419	0.000	1.33		
1.019	S8051 - Headwall	14	96.900	0.000	0.000	0.68		
1.020	S8052 Control Chamber	12	97.780	0.980	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 9.7	OK
1.012		S8028 206.0	OK
1.013		S8029 208.4	OK
1.014		S8030 210.8	OK
1.015		S8031 214.7	OK
1.016		S8034 224.0	OK
1.017		S8037 229.1	SURCHARGED
1.018	S8039 - Headwall	234.2	SURCHARGED*
1.019	S8051 - Headwall	235.6	SURCHARGED*
1.020	S8052 Control Chamber	11.2	SURCHARGED

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Ashby Road Measham Swadlincote DE12 7JP																																																																																																																																																																																												
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<u>Summary Wizard of 600 minute 100 year Summer 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>																																																																																																																																																																																												
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Innovyze		Network 2020.1.3												
<u>Summary Wizard of 720 minute 100 year Summer 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></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	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								
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								

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<u>Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 8</u>				

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Summary Wizard of 960 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 40	99.097	-0.243	0.000	0.08		
1.012		S8028 40	98.734	-0.360	0.000	0.34		
1.013		S8029 40	98.553	-0.417	0.000	0.20		
1.014		S8030 40	98.247	-0.373	0.000	0.31		
1.015		S8031 40	98.048	-0.412	0.000	0.22		
1.016		S8034 16	97.821	-0.259	0.000	0.14		
1.017		S8037 13	97.818	0.438	0.000	0.17		
1.018	S8039 - Headwall	10	97.334	0.419	0.000	0.79		
1.019	S8051 - Headwall	4	96.900	0.000	0.000	0.40		
1.020	S8052 Control Chamber	7	97.815	1.015	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 5.6	OK
1.012		S8028 119.5	OK
1.013		S8029 121.4	OK
1.014		S8030 123.0	OK
1.015		S8031 126.0	OK
1.016		S8034 131.9	OK
1.017		S8037 135.5	SURCHARGED
1.018	S8039 - Headwall	138.9	SURCHARGED*
1.019	S8051 - Headwall	140.1	SURCHARGED*
1.020	S8052 Control Chamber	11.4	SURCHARGED

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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 / Overflow Cap. (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 23	97.797	-0.283	0.000	0.10	
1.017		S8037 18	97.794	0.414	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	11	97.791	0.991	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 98.0	SURCHARGED
1.018	S8039 - Headwall	100.5	SURCHARGED*
1.019	S8051 - Headwall	101.3	SURCHARGED*
1.020	S8052 Control Chamber	11.3	SURCHARGED

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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>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>						PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow	(m)	(m)	(m³)	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	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	66	96.666	-0.234	0.000	0.68		
1.020	S8052 Control Chamber	71	96.515	-0.285	0.000	0.01		

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	5.1	OK

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Summary Wizard of 30 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	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)
			Level (m)	Depth (m)	Volume (m³)		
1.000	S8104 Jelson	24	102.200	-0.216	0.000	0.17	
1.001	S8172 Jelson	26	101.885	-0.204	0.000	0.23	
1.002	S8105 Jelson	26	101.640	-0.196	0.000	0.26	
1.003	S8107 Jelson	26	101.168	-0.353	0.000	0.11	
1.004	S8171 Jelson	26	100.920	-0.336	0.000	0.14	
1.005	S8170 Jelson	26	100.351	-0.315	0.000	0.20	
1.006	S8009 - Jelson Connection	26	100.012	-0.396	0.000	0.14	
1.007	S8010	26	99.770	-0.325	0.000	0.25	
1.008	S8011	26	99.708	-0.277	0.000	0.20	
2.000	S8108 Jelson	24	100.645	-0.210	0.000	0.19	
2.001	S8109 Jelson	26	100.274	-0.165	0.000	0.42	
2.002	S8110 Jelson	26	100.210	-0.076	0.000	0.99	
3.000	S8115 Jelson	24	100.096	-0.454	0.000	0.04	
3.001	S8116 Jelson	26	99.934	-0.409	0.000	0.09	
2.003	S8111 Jelson	26	99.880	-0.379	0.000	0.17	
2.004	S8112 Jelson	26	99.805	-0.245	0.000	0.31	
2.005	S8113 Jelson	26	99.787	-0.191	0.000	0.72	
2.006	S8022 Jelson Connection	26	99.718	-0.233	0.000	0.36	
1.009	S8023	26	99.693	-0.132	0.000	0.90	
1.010	S8025	25	99.469	-0.281	0.000	0.55	
1.011	S8026	25	99.242	-0.398	0.000	0.25	

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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 30 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		18.1	OK
1.001	S8172 Jelson		26.2	OK
1.002	S8105 Jelson		29.4	OK
1.003	S8107 Jelson		30.5	OK
1.004	S8171 Jelson		56.2	OK
1.005	S8170 Jelson		56.3	OK
1.006	S8009 - Jelson Connection		56.4	OK
1.007	S8010		62.0	OK
1.008	S8011		60.9	OK
2.000	S8108 Jelson		19.9	OK
2.001	S8109 Jelson		31.7	OK
2.002	S8110 Jelson		40.1	OK
3.000	S8115 Jelson	8	12.4	OK
3.001	S8116 Jelson		20.4	OK
2.003	S8111 Jelson		61.0	OK
2.004	S8112 Jelson		73.8	OK
2.005	S8113 Jelson		86.0	OK
2.006	S8022 Jelson Connection		98.6	OK
1.009	S8023		161.6	OK
1.010	S8025		176.5	OK
1.011	S8026		181.8	OK
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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

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Summary Wizard of 60 minute 1 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	33	99.107	-0.233	0.000	0.11	
1.012		S8028	33	98.772	-0.322	0.000	0.44	
1.013		S8029	33	98.579	-0.391	0.000	0.26	
1.014		S8030	33	98.282	-0.338	0.000	0.40	
1.015		S8031	34	98.075	-0.385	0.000	0.28	
1.016		S8034	41	97.653	-0.427	0.000	0.18	
1.017		S8037	54	96.831	-0.549	0.000	0.22	
1.018	S8039 - Headwall	54	96.816	-0.099	0.000	1.00		
1.019	S8051 - Headwall	71	96.632	-0.268	0.000	0.51		
1.020	S8052 Control Chamber	67	96.631	-0.169	0.000	0.01		

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	7.6	OK
1.012		S8028	154.1	OK
1.013		S8029	156.5	OK
1.014		S8030	158.6	OK
1.015		S8031	162.2	OK
1.016		S8034	169.0	OK
1.017		S8037	173.2	OK
1.018	S8039 - Headwall		176.0	OK*
1.019	S8051 - Headwall		177.2	OK*
1.020	S8052 Control Chamber		5.9	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																																																																																																																																																																
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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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2.001	S8109 Jelson	45	100.225	-0.214	0.000	0.18																																																																																																																																																												
2.002	S8110 Jelson	45	100.086	-0.200	0.000	0.44																																																																																																																																																												
3.000	S8115 Jelson	45	100.072	-0.478	0.000	0.02																																																																																																																																																												
3.001	S8116 Jelson	45	99.891	-0.452	0.000	0.04																																																																																																																																																												
2.003	S8111 Jelson	45	99.831	-0.428	0.000	0.08																																																																																																																																																												
2.004	S8112 Jelson	44	99.689	-0.361	0.000	0.14																																																																																																																																																												
2.005	S8113 Jelson	44	99.663	-0.315	0.000	0.33																																																																																																																																																												
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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Innovyze		Network 2020.1.3

Summary Wizard of 120 minute 1 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	45 99.092	-0.248	0.000	0.07		
1.012		S8028	44 98.713	-0.381	0.000	0.29		
1.013		S8029	44 98.538	-0.432	0.000	0.17		
1.014		S8030	44 98.227	-0.393	0.000	0.26		
1.015		S8031	44 98.033	-0.427	0.000	0.18		
1.016		S8034	47 97.619	-0.461	0.000	0.12		
1.017		S8037	64 96.704	-0.676	0.000	0.15		
1.018	S8039 - Headwall	69 96.690	-0.225	0.000	0.68			
1.019	S8051 - Headwall	62 96.689	-0.211	0.000	0.35			
1.020	S8052 Control Chamber	62 96.689	-0.111	0.000	0.01			

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	4.8	OK
1.012		S8028	102.0	OK
1.013		S8029	103.5	OK
1.014		S8030	104.9	OK
1.015		S8031	107.3	OK
1.016		S8034	112.1	OK
1.017		S8037	116.1	OK
1.018	S8039 - Headwall		119.0	OK*
1.019	S8051 - Headwall		119.8	OK*
1.020	S8052 Control Chamber		6.3	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																																																																																																																																																																																			
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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>52</td><td>102.162</td><td>-0.254</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>52</td><td>101.843</td><td>-0.246</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>52</td><td>101.595</td><td>-0.241</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>52</td><td>101.125</td><td>-0.396</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>52</td><td>100.870</td><td>-0.386</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>52</td><td>100.292</td><td>-0.374</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>52</td><td>99.955</td><td>-0.452</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>52</td><td>99.675</td><td>-0.420</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>52</td><td>99.560</td><td>-0.425</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>52</td><td>100.604</td><td>-0.251</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>52</td><td>100.213</td><td>-0.226</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>52</td><td>100.061</td><td>-0.225</td><td>0.000</td><td>0.34</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>52</td><td>100.061</td><td>-0.489</td><td>0.000</td><td>0.01</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>52</td><td>99.881</td><td>-0.462</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>52</td><td>99.816</td><td>-0.443</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>52</td><td>99.661</td><td>-0.389</td><td>0.000</td><td>0.11</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>52</td><td>99.633</td><td>-0.345</td><td>0.000</td><td>0.26</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>52</td><td>99.557</td><td>-0.394</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>52</td><td>99.508</td><td>-0.317</td><td>0.000</td><td>0.33</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>52</td><td>99.334</td><td>-0.415</td><td>0.000</td><td>0.21</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>52</td><td>99.163</td><td>-0.477</td><td>0.000</td><td>0.09</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	52	102.162	-0.254	0.000	0.06		1.001	S8172 Jelson	52	101.843	-0.246	0.000	0.07		1.002	S8105 Jelson	52	101.595	-0.241	0.000	0.09		1.003	S8107 Jelson	52	101.125	-0.396	0.000	0.03		1.004	S8171 Jelson	52	100.870	-0.386	0.000	0.05		1.005	S8170 Jelson	52	100.292	-0.374	0.000	0.07		1.006	S8009 - Jelson Connection	52	99.955	-0.452	0.000	0.05		1.007	S8010	52	99.675	-0.420	0.000	0.09		1.008	S8011	52	99.560	-0.425	0.000	0.07		2.000	S8108 Jelson	52	100.604	-0.251	0.000	0.06		2.001	S8109 Jelson	52	100.213	-0.226	0.000	0.14		2.002	S8110 Jelson	52	100.061	-0.225	0.000	0.34		3.000	S8115 Jelson	52	100.061	-0.489	0.000	0.01		3.001	S8116 Jelson	52	99.881	-0.462	0.000	0.03		2.003	S8111 Jelson	52	99.816	-0.443	0.000	0.06		2.004	S8112 Jelson	52	99.661	-0.389	0.000	0.11		2.005	S8113 Jelson	52	99.633	-0.345	0.000	0.26		2.006	S8022 Jelson Connection	52	99.557	-0.394	0.000	0.13		1.009	S8023	52	99.508	-0.317	0.000	0.33		1.010	S8025	52	99.334	-0.415	0.000	0.21		1.011	S8026	52	99.163	-0.477	0.000	0.09	
PN	US/MH Name	Storm Rank	Water				Surcharged	Flooded	Flow / Cap.			Overflow (l/s)																																																																																																																																																																										
			Level (m)	Depth (m)	Volume (m³)																																																																																																																																																																																	
1.000	S8104 Jelson	52	102.162	-0.254	0.000	0.06																																																																																																																																																																																
1.001	S8172 Jelson	52	101.843	-0.246	0.000	0.07																																																																																																																																																																																
1.002	S8105 Jelson	52	101.595	-0.241	0.000	0.09																																																																																																																																																																																
1.003	S8107 Jelson	52	101.125	-0.396	0.000	0.03																																																																																																																																																																																
1.004	S8171 Jelson	52	100.870	-0.386	0.000	0.05																																																																																																																																																																																
1.005	S8170 Jelson	52	100.292	-0.374	0.000	0.07																																																																																																																																																																																
1.006	S8009 - Jelson Connection	52	99.955	-0.452	0.000	0.05																																																																																																																																																																																
1.007	S8010	52	99.675	-0.420	0.000	0.09																																																																																																																																																																																
1.008	S8011	52	99.560	-0.425	0.000	0.07																																																																																																																																																																																
2.000	S8108 Jelson	52	100.604	-0.251	0.000	0.06																																																																																																																																																																																
2.001	S8109 Jelson	52	100.213	-0.226	0.000	0.14																																																																																																																																																																																
2.002	S8110 Jelson	52	100.061	-0.225	0.000	0.34																																																																																																																																																																																
3.000	S8115 Jelson	52	100.061	-0.489	0.000	0.01																																																																																																																																																																																
3.001	S8116 Jelson	52	99.881	-0.462	0.000	0.03																																																																																																																																																																																
2.003	S8111 Jelson	52	99.816	-0.443	0.000	0.06																																																																																																																																																																																
2.004	S8112 Jelson	52	99.661	-0.389	0.000	0.11																																																																																																																																																																																
2.005	S8113 Jelson	52	99.633	-0.345	0.000	0.26																																																																																																																																																																																
2.006	S8022 Jelson Connection	52	99.557	-0.394	0.000	0.13																																																																																																																																																																																
1.009	S8023	52	99.508	-0.317	0.000	0.33																																																																																																																																																																																
1.010	S8025	52	99.334	-0.415	0.000	0.21																																																																																																																																																																																
1.011	S8026	52	99.163	-0.477	0.000	0.09																																																																																																																																																																																
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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

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Innovyze		Network 2020.1.3				
<u>Summary Wizard of 240 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	
<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				
			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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Innovyze		Network 2020.1.3		
<u>Summary Wizard of 240 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		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
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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																																																																																																																																																																			
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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																																																																																																																																																																				
Return Period(s) (years)		1, 30, 100																																																																																																																																																																				
Climate Change (%)		0, 0, 40																																																																																																																																																																				
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Bloor Homes		Page 132
Ashby Road Measham Swadlincote DE12 7JP		
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...	Designed by d_southa Checked by	
Innovyze	Network 2020.1.3	

Summary Wizard of 360 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		3.6	OK
1.001	S8172 Jelson		5.3	OK
1.002	S8105 Jelson		6.0	OK
1.003	S8107 Jelson		6.2	OK
1.004	S8171 Jelson		11.7	OK
1.005	S8170 Jelson		11.7	OK
1.006	S8009 - Jelson Connection		11.7	OK
1.007	S8010		13.1	OK
1.008	S8011		13.6	OK
2.000	S8108 Jelson		3.9	OK
2.001	S8109 Jelson		6.5	OK
2.002	S8110 Jelson		8.4	OK
3.000	S8115 Jelson	54	2.5	OK
3.001	S8116 Jelson		4.2	OK
2.003	S8111 Jelson		12.8	OK
2.004	S8112 Jelson		15.8	OK
2.005	S8113 Jelson		18.7	OK
2.006	S8022 Jelson Connection		21.9	OK
1.009	S8023		36.4	OK
1.010	S8025		40.9	OK
1.011	S8026		42.4	OK

Bloor Homes			Page 134																																																																																																																																																																																				
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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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Ashby Road Measham Swadlincote DE12 7JP				
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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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Innovyze		Network 2020.1.3													
<u>Summary Wizard of 720 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										
<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	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									

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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

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Summary Wizard of 960 minute 1 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	70	99.063	-0.277	0.000	0.02	
1.012		S8028	70	98.595	-0.499	0.000	0.07	
1.013		S8029	70	98.447	-0.523	0.000	0.04	
1.014		S8030	70	98.115	-0.505	0.000	0.06	
1.015		S8031	70	97.939	-0.521	0.000	0.04	
1.016		S8034	70	97.547	-0.533	0.000	0.03	
1.017		S8037	60	96.749	-0.631	0.000	0.03	
1.018	S8039 - Headwall	59	96.748	-0.167	0.000	0.16		
1.019	S8051 - Headwall	53	96.747	-0.153	0.000	0.08		
1.020	S8052 Control Chamber	52	96.747	-0.053	0.000	0.01		

PN	US/MH Name	Pipe Flow	
		(l/s)	Status
4.000		S8068 1.1	OK
1.012		S8028 23.7	OK
1.013		S8029 24.0	OK
1.014		S8030 24.4	OK
1.015		S8031 25.0	OK
1.016		S8034 26.1	OK
1.017		S8037 27.1	OK
1.018	S8039 - Headwall	27.8	OK*
1.019	S8051 - Headwall	27.5	OK*
1.020	S8052 Control Chamber	6.6	OK

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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	

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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></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>6</td><td>102.276</td><td>-0.140</td><td>0.000</td><td>0.54</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>6</td><td>101.985</td><td>-0.104</td><td>0.000</td><td>0.74</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>6</td><td>101.754</td><td>-0.082</td><td>0.000</td><td>0.85</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>6</td><td>101.255</td><td>-0.266</td><td>0.000</td><td>0.34</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>6</td><td>101.032</td><td>-0.224</td><td>0.000</td><td>0.49</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>7</td><td>100.512</td><td>-0.154</td><td>0.000</td><td>0.66</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>7</td><td>100.428</td><td>0.020</td><td>0.000</td><td>0.43</td></tr><tr><td>1.007</td><td>S8010</td><td>7</td><td>100.388</td><td>0.293</td><td>0.000</td><td>0.77</td></tr><tr><td>1.008</td><td>S8011</td><td>7</td><td>100.326</td><td>0.341</td><td>0.000</td><td>0.63</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>7</td><td>100.894</td><td>0.039</td><td>0.000</td><td>0.59</td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>7</td><td>100.771</td><td>0.332</td><td>0.000</td><td>1.20</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>7</td><td>100.565</td><td>0.279</td><td>0.000</td><td>2.87</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>7</td><td>100.444</td><td>-0.106</td><td>0.000</td><td>0.18</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>7</td><td>100.452</td><td>0.109</td><td>0.000</td><td>0.37</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>7</td><td>100.452</td><td>0.193</td><td>0.000</td><td>0.51</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>7</td><td>100.425</td><td>0.375</td><td>0.000</td><td>0.82</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>7</td><td>100.388</td><td>0.410</td><td>0.000</td><td>1.74</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>7</td><td>100.345</td><td>0.394</td><td>0.000</td><td>0.81</td></tr><tr><td>1.009</td><td>S8023</td><td>7</td><td>100.275</td><td>0.450</td><td>0.000</td><td>2.31</td></tr><tr><td>1.010</td><td>S8025</td><td>7</td><td>99.840</td><td>0.090</td><td>0.000</td><td>1.42</td></tr><tr><td>1.011</td><td>S8026</td><td>7</td><td>99.439</td><td>-0.201</td><td>0.000</td><td>0.62</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	6	102.276	-0.140	0.000	0.54	1.001	S8172 Jelson	6	101.985	-0.104	0.000	0.74	1.002	S8105 Jelson	6	101.754	-0.082	0.000	0.85	1.003	S8107 Jelson	6	101.255	-0.266	0.000	0.34	1.004	S8171 Jelson	6	101.032	-0.224	0.000	0.49	1.005	S8170 Jelson	7	100.512	-0.154	0.000	0.66	1.006	S8009 - Jelson Connection	7	100.428	0.020	0.000	0.43	1.007	S8010	7	100.388	0.293	0.000	0.77	1.008	S8011	7	100.326	0.341	0.000	0.63	2.000	S8108 Jelson	7	100.894	0.039	0.000	0.59	2.001	S8109 Jelson	7	100.771	0.332	0.000	1.20	2.002	S8110 Jelson	7	100.565	0.279	0.000	2.87	3.000	S8115 Jelson	7	100.444	-0.106	0.000	0.18	3.001	S8116 Jelson	7	100.452	0.109	0.000	0.37	2.003	S8111 Jelson	7	100.452	0.193	0.000	0.51	2.004	S8112 Jelson	7	100.425	0.375	0.000	0.82	2.005	S8113 Jelson	7	100.388	0.410	0.000	1.74	2.006	S8022 Jelson Connection	7	100.345	0.394	0.000	0.81	1.009	S8023	7	100.275	0.450	0.000	2.31	1.010	S8025	7	99.840	0.090	0.000	1.42	1.011	S8026	7	99.439	-0.201	0.000	0.62
			Water	Surcharged	Flooded																																																																																																																																																																	
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<u>Summary Wizard of 15 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		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 / Cap.	Overflow (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	19 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	96.788	-0.012	0.000	0.01		

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	6.9	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	21 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	96.910	0.110	0.000	0.01		

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	7.5	SURCHARGED

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

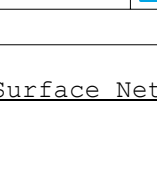
PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
			Level (m)	Depth (m)	Volume (m³)			
4.000	S8068	15	99.146	-0.194	0.000	0.27		
1.012	S8028	15	99.093	-0.001	0.000	1.00		
1.013	S8029	15	98.707	-0.263	0.000	0.60		
1.014	S8030	15	98.467	-0.153	0.000	0.91		
1.015	S8031	15	98.209	-0.251	0.000	0.64		
1.016	S8034	29	97.752	-0.328	0.000	0.42		
1.017	S8037	46	97.131	-0.249	0.000	0.50		
1.018	S8039 - Headwall	47	97.108	0.193	0.000	2.33		
1.019	S8051 - Headwall	8	96.900	0.000	0.000	1.19		
1.020	S8052 Control Chamber	43	97.028	0.228	0.000	0.01		

PN	US/MH Name	Pipe	Status
		Flow (l/s)	
4.000	S8068	18.3	OK
1.012	S8028	353.0	OK
1.013	S8029	358.5	OK
1.014	S8030	363.2	OK
1.015	S8031	372.0	OK
1.016	S8034	388.9	OK
1.017	S8037	398.7	OK
1.018	S8039 - Headwall	410.4	SURCHARGED*
1.019	S8051 - Headwall	413.2	SURCHARGED*
1.020	S8052 Control Chamber	8.1	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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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></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 / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>26</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>25</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>25</td><td>101.641</td><td>-0.195</td><td>0.000</td><td>0.27</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>25</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>25</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>25</td><td>100.354</td><td>-0.312</td><td>0.000</td><td>0.21</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>25</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>21</td><td>99.798</td><td>-0.297</td><td>0.000</td><td>0.27</td></tr><tr><td>1.008</td><td>S8011</td><td>21</td><td>99.750</td><td>-0.235</td><td>0.000</td><td>0.22</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>26</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>23</td><td>100.311</td><td>-0.128</td><td>0.000</td><td>0.42</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>23</td><td>100.274</td><td>-0.012</td><td>0.000</td><td>1.00</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>26</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>25</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>25</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>22</td><td>99.823</td><td>-0.227</td><td>0.000</td><td>0.33</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>22</td><td>99.804</td><td>-0.174</td><td>0.000</td><td>0.78</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>21</td><td>99.760</td><td>-0.191</td><td>0.000</td><td>0.39</td></tr><tr><td>1.009</td><td>S8023</td><td>21</td><td>99.733</td><td>-0.092</td><td>0.000</td><td>1.00</td></tr><tr><td>1.010</td><td>S8025</td><td>21</td><td>99.495</td><td>-0.255</td><td>0.000</td><td>0.62</td></tr><tr><td>1.011</td><td>S8026</td><td>21</td><td>99.257</td><td>-0.383</td><td>0.000</td><td>0.28</td></tr></tbody></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	26	102.199	-0.217	0.000	0.17	1.001	S8172 Jelson	25	101.886	-0.203	0.000	0.23	1.002	S8105 Jelson	25	101.641	-0.195	0.000	0.27	1.003	S8107 Jelson	25	101.169	-0.352	0.000	0.11	1.004	S8171 Jelson	25	100.922	-0.334	0.000	0.15	1.005	S8170 Jelson	25	100.354	-0.312	0.000	0.21	1.006	S8009 - Jelson Connection	25	100.015	-0.393	0.000	0.14	1.007	S8010	21	99.798	-0.297	0.000	0.27	1.008	S8011	21	99.750	-0.235	0.000	0.22	2.000	S8108 Jelson	26	100.644	-0.211	0.000	0.19	2.001	S8109 Jelson	23	100.311	-0.128	0.000	0.42	2.002	S8110 Jelson	23	100.274	-0.012	0.000	1.00	3.000	S8115 Jelson	26	100.095	-0.455	0.000	0.04	3.001	S8116 Jelson	25	99.937	-0.406	0.000	0.09	2.003	S8111 Jelson	25	99.882	-0.377	0.000	0.18	2.004	S8112 Jelson	22	99.823	-0.227	0.000	0.33	2.005	S8113 Jelson	22	99.804	-0.174	0.000	0.78	2.006	S8022 Jelson Connection	21	99.760	-0.191	0.000	0.39	1.009	S8023	21	99.733	-0.092	0.000	1.00	1.010	S8025	21	99.495	-0.255	0.000	0.62	1.011	S8026	21	99.257	-0.383	0.000	0.28
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PN	US/MH Name	Half Drain Time (mins)	Pipe Flow (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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Summary Wizard of 180 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	31 102.187	-0.229	0.000	0.13	
1.001	S8172	Jelson	31 101.872	-0.217	0.000	0.17	
1.002	S8105	Jelson	31 101.627	-0.209	0.000	0.20	
1.003	S8107	Jelson	31 101.156	-0.365	0.000	0.08	
1.004	S8171	Jelson	31 100.906	-0.350	0.000	0.11	
1.005	S8170	Jelson	31 100.333	-0.333	0.000	0.15	
1.006	S8009 -	Jelson Connection	31 99.997	-0.411	0.000	0.11	
1.007	S8010		31 99.740	-0.355	0.000	0.20	
1.008	S8011		30 99.662	-0.323	0.000	0.17	
2.000	S8108	Jelson	31 100.631	-0.224	0.000	0.14	
2.001	S8109	Jelson	31 100.256	-0.183	0.000	0.32	
2.002	S8110	Jelson	31 100.161	-0.125	0.000	0.78	
3.000	S8115	Jelson	31 100.087	-0.463	0.000	0.03	
3.001	S8116	Jelson	31 99.920	-0.423	0.000	0.07	
2.003	S8111	Jelson	31 99.862	-0.397	0.000	0.14	
2.004	S8112	Jelson	31 99.763	-0.287	0.000	0.25	
2.005	S8113	Jelson	31 99.743	-0.235	0.000	0.59	
2.006	S8022	Jelson Connection	30 99.671	-0.280	0.000	0.30	
1.009	S8023		30 99.645	-0.180	0.000	0.76	
1.010	S8025		30 99.441	-0.308	0.000	0.48	
1.011	S8026		30 99.228	-0.412	0.000	0.21	

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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>36</td><td>102.180</td><td>-0.236</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>36</td><td>101.863</td><td>-0.226</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>36</td><td>101.616</td><td>-0.220</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>36</td><td>101.145</td><td>-0.376</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>36</td><td>100.897</td><td>-0.359</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>36</td><td>100.320</td><td>-0.346</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>36</td><td>99.986</td><td>-0.422</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>36</td><td>99.715</td><td>-0.380</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>36</td><td>99.624</td><td>-0.361</td><td>0.000</td><td>0.13</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>36</td><td>100.623</td><td>-0.232</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>36</td><td>100.242</td><td>-0.197</td><td>0.000</td><td>0.26</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>36</td><td>100.126</td><td>-0.160</td><td>0.000</td><td>0.63</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>36</td><td>100.082</td><td>-0.468</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>36</td><td>99.907</td><td>-0.436</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>36</td><td>99.849</td><td>-0.410</td><td>0.000</td><td>0.11</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>36</td><td>99.730</td><td>-0.320</td><td>0.000</td><td>0.20</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>36</td><td>99.708</td><td>-0.270</td><td>0.000</td><td>0.47</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>36</td><td>99.631</td><td>-0.320</td><td>0.000</td><td>0.24</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>36</td><td>99.598</td><td>-0.227</td><td>0.000</td><td>0.61</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>36</td><td>99.407</td><td>-0.342</td><td>0.000</td><td>0.38</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>36</td><td>99.207</td><td>-0.433</td><td>0.000</td><td>0.17</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	36	102.180	-0.236	0.000	0.10		1.001	S8172 Jelson	36	101.863	-0.226	0.000	0.14		1.002	S8105 Jelson	36	101.616	-0.220	0.000	0.16		1.003	S8107 Jelson	36	101.145	-0.376	0.000	0.06		1.004	S8171 Jelson	36	100.897	-0.359	0.000	0.09		1.005	S8170 Jelson	36	100.320	-0.346	0.000	0.12		1.006	S8009 - Jelson Connection	36	99.986	-0.422	0.000	0.09		1.007	S8010	36	99.715	-0.380	0.000	0.16		1.008	S8011	36	99.624	-0.361	0.000	0.13		2.000	S8108 Jelson	36	100.623	-0.232	0.000	0.12		2.001	S8109 Jelson	36	100.242	-0.197	0.000	0.26		2.002	S8110 Jelson	36	100.126	-0.160	0.000	0.63		3.000	S8115 Jelson	36	100.082	-0.468	0.000	0.03		3.001	S8116 Jelson	36	99.907	-0.436	0.000	0.06		2.003	S8111 Jelson	36	99.849	-0.410	0.000	0.11		2.004	S8112 Jelson	36	99.730	-0.320	0.000	0.20		2.005	S8113 Jelson	36	99.708	-0.270	0.000	0.47		2.006	S8022 Jelson Connection	36	99.631	-0.320	0.000	0.24		1.009	S8023	36	99.598	-0.227	0.000	0.61		1.010	S8025	36	99.407	-0.342	0.000	0.38		1.011	S8026	36	99.207	-0.433	0.000	0.17	
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2.003	S8111 Jelson	36	99.849	-0.410	0.000	0.11																																																																																																																																																																																							
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Innovyze	Network 2020.1.3	

Summary Wizard of 240 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	36 99.103	-0.237	0.000	0.10		
1.012		S8028	36 98.762	-0.332	0.000	0.41		
1.013		S8029	36 98.572	-0.398	0.000	0.25		
1.014		S8030	36 98.273	-0.347	0.000	0.37		
1.015		S8031	36 98.068	-0.392	0.000	0.26		
1.016		S8034	42 97.648	-0.432	0.000	0.17		
1.017		S8037	35 97.229	-0.151	0.000	0.21		
1.018	S8039 - Headwall	35	97.228	0.313	0.000	0.97		
1.019	S8051 - Headwall	11	96.900	0.000	0.000	0.49		
1.020	S8052 Control Chamber	28	97.225	0.425	0.000	0.02		

PN	US/MH Name	Pipe Flow		Status
		(l/s)		
4.000		S8068	6.8	OK
1.012		S8028	144.9	OK
1.013		S8029	147.3	OK
1.014		S8030	149.2	OK
1.015		S8031	153.0	OK
1.016		S8034	160.1	OK
1.017		S8037	165.8	OK
1.018	S8039 - Headwall	170.1		SURCHARGED*
1.019	S8051 - Headwall	169.1		SURCHARGED*
1.020	S8052 Control Chamber	9.1		SURCHARGED

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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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Summary Wizard of 360 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	43 99.093	-0.247	0.000	0.07		
1.012		S8028	43 98.719	-0.375	0.000	0.30		
1.013		S8029	43 98.542	-0.428	0.000	0.18		
1.014		S8030	43 98.233	-0.387	0.000	0.27		
1.015		S8031	43 98.038	-0.422	0.000	0.19		
1.016		S8034	46 97.622	-0.458	0.000	0.13		
1.017		S8037	33 97.268	-0.112	0.000	0.15		
1.018	S8039 - Headwall	31	97.267	0.352	0.000	0.71		
1.019	S8051 - Headwall	12	96.900	0.000	0.000	0.36		
1.020	S8052 Control Chamber	26	97.265	0.465	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 5.0	OK
1.012		S8028 106.5	OK
1.013		S8029 108.0	OK
1.014		S8030 109.4	OK
1.015		S8031 112.0	OK
1.016		S8034 117.2	OK
1.017		S8037 121.2	OK
1.018	S8039 - Headwall	124.7	SURCHARGED*
1.019	S8051 - Headwall	124.0	SURCHARGED*
1.020	S8052 Control Chamber	9.2	SURCHARGED

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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>50</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>50</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>50</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>50</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>50</td><td>100.872</td><td>-0.384</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>50</td><td>100.295</td><td>-0.371</td><td>0.000</td><td>0.07</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>50</td><td>99.958</td><td>-0.450</td><td>0.000</td><td>0.05</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>50</td><td>99.678</td><td>-0.417</td><td>0.000</td><td>0.10</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>50</td><td>99.566</td><td>-0.419</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>50</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>50</td><td>100.216</td><td>-0.223</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>50</td><td>100.068</td><td>-0.218</td><td>0.000</td><td>0.37</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>50</td><td>100.063</td><td>-0.487</td><td>0.000</td><td>0.02</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>50</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>50</td><td>99.820</td><td>-0.439</td><td>0.000</td><td>0.06</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>50</td><td>99.669</td><td>-0.381</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>50</td><td>99.641</td><td>-0.337</td><td>0.000</td><td>0.28</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>50</td><td>99.564</td><td>-0.387</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>50</td><td>99.517</td><td>-0.308</td><td>0.000</td><td>0.36</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>50</td><td>99.342</td><td>-0.408</td><td>0.000</td><td>0.23</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>49</td><td>99.167</td><td>-0.473</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	50	102.164	-0.252	0.000	0.06		1.001	S8172 Jelson	50	101.846	-0.243	0.000	0.08		1.002	S8105 Jelson	50	101.598	-0.238	0.000	0.09		1.003	S8107 Jelson	50	101.127	-0.394	0.000	0.04		1.004	S8171 Jelson	50	100.872	-0.384	0.000	0.05		1.005	S8170 Jelson	50	100.295	-0.371	0.000	0.07		1.006	S8009 - Jelson Connection	50	99.958	-0.450	0.000	0.05		1.007	S8010	50	99.678	-0.417	0.000	0.10		1.008	S8011	50	99.566	-0.419	0.000	0.08		2.000	S8108 Jelson	50	100.606	-0.249	0.000	0.07		2.001	S8109 Jelson	50	100.216	-0.223	0.000	0.15		2.002	S8110 Jelson	50	100.068	-0.218	0.000	0.37		3.000	S8115 Jelson	50	100.063	-0.487	0.000	0.02		3.001	S8116 Jelson	50	99.884	-0.459	0.000	0.03		2.003	S8111 Jelson	50	99.820	-0.439	0.000	0.06		2.004	S8112 Jelson	50	99.669	-0.381	0.000	0.12		2.005	S8113 Jelson	50	99.641	-0.337	0.000	0.28		2.006	S8022 Jelson Connection	50	99.564	-0.387	0.000	0.14		1.009	S8023	50	99.517	-0.308	0.000	0.36		1.010	S8025	50	99.342	-0.408	0.000	0.23		1.011	S8026	49	99.167	-0.473	0.000	0.10	
			Water	Surcharged	Flooded																																																																																																																																																																																							
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1.004	S8171 Jelson	50	100.872	-0.384	0.000	0.05																																																																																																																																																																																						
1.005	S8170 Jelson	50	100.295	-0.371	0.000	0.07																																																																																																																																																																																						
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Ashby Road Measham Swadlincote DE12 7JP				
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 480 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		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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Ashby Road Measham Swadlincote DE12 7JP		
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Innovyze		Network 2020.1.3

Summary Wizard of 480 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	50 99.087	-0.253	0.000	0.06		
1.012		S8028	49 98.693	-0.401	0.000	0.24		
1.013		S8029	49 98.522	-0.448	0.000	0.15		
1.014		S8030	49 98.209	-0.411	0.000	0.22		
1.015		S8031	49 98.016	-0.444	0.000	0.15		
1.016		S8034	50 97.608	-0.472	0.000	0.10		
1.017		S8037	31 97.288	-0.092	0.000	0.12		
1.018	S8039 - Headwall	30	97.288	0.373	0.000	0.56		
1.019	S8051 - Headwall	13	96.900	0.000	0.000	0.28		
1.020	S8052 Control Chamber	25	97.285	0.485	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 4.0	OK
1.012		S8028 85.4	OK
1.013		S8029 86.6	OK
1.014		S8030 87.8	OK
1.015		S8031 89.8	OK
1.016		S8034 94.0	OK
1.017		S8037 96.5	OK
1.018	S8039 - Headwall	99.0	SURCHARGED*
1.019	S8051 - Headwall	98.8	SURCHARGED*
1.020	S8052 Control Chamber	9.3	SURCHARGED

Bloor Homes			Page 173																																																																																																																																																																																				
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<u>Summary Wizard of 600 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																																																																																																																																																																																					
<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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PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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1.003	S8107 Jelson	53	101.123	-0.398	0.000	0.03																																																																																																																																																																																	
1.004	S8171 Jelson	53	100.867	-0.389	0.000	0.04																																																																																																																																																																																	
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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M5-60 (mm)		20.000	Cv (Winter) 0.840																																																																																																																																																																		
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Climate Change (%)		0, 0, 40																																																																																																																																																																			
<table><thead><tr><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 / Overflow Cap. (l/s)</th></tr></thead><tbody><tr><td>1.000</td><td>S8104 Jelson</td><td>58</td><td>102.156</td><td>-0.260</td><td>0.000</td><td>0.04</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>58</td><td>101.836</td><td>-0.253</td><td>0.000</td><td>0.06</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>58</td><td>101.587</td><td>-0.249</td><td>0.000</td><td>0.07</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>58</td><td>101.120</td><td>-0.401</td><td>0.000</td><td>0.03</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>58</td><td>100.863</td><td>-0.393</td><td>0.000</td><td>0.04</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>58</td><td>100.282</td><td>-0.384</td><td>0.000</td><td>0.05</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>58</td><td>99.947</td><td>-0.460</td><td>0.000</td><td>0.04</td></tr><tr><td>1.007</td><td>S8010</td><td>58</td><td>99.660</td><td>-0.435</td><td>0.000</td><td>0.07</td></tr><tr><td>1.008</td><td>S8011</td><td>58</td><td>99.542</td><td>-0.443</td><td>0.000</td><td>0.06</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>58</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>58</td><td>100.205</td><td>-0.234</td><td>0.000</td><td>0.11</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>58</td><td>100.042</td><td>-0.244</td><td>0.000</td><td>0.27</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>58</td><td>100.053</td><td>-0.497</td><td>0.000</td><td>0.01</td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>58</td><td>99.875</td><td>-0.468</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>58</td><td>99.807</td><td>-0.452</td><td>0.000</td><td>0.05</td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>58</td><td>99.644</td><td>-0.406</td><td>0.000</td><td>0.09</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>58</td><td>99.613</td><td>-0.365</td><td>0.000</td><td>0.20</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>58</td><td>99.539</td><td>-0.412</td><td>0.000</td><td>0.10</td></tr><tr><td>1.009</td><td>S8023</td><td>58</td><td>99.482</td><td>-0.343</td><td>0.000</td><td>0.26</td></tr><tr><td>1.010</td><td>S8025</td><td>58</td><td>99.312</td><td>-0.438</td><td>0.000</td><td>0.16</td></tr><tr><td>1.011</td><td>S8026</td><td>58</td><td>99.147</td><td>-0.493</td><td>0.000</td><td>0.07</td></tr></tbody></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	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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Innovyze	Network 2020.1.3	

Summary Wizard of 720 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	58 99.080	-0.260	0.000	0.04		
1.012		S8028	58 98.663	-0.431	0.000	0.18		
1.013		S8029	58 98.500	-0.470	0.000	0.11		
1.014		S8030	58 98.179	-0.441	0.000	0.16		
1.015		S8031	58 97.993	-0.467	0.000	0.11		
1.016		S8034	58 97.588	-0.492	0.000	0.07		
1.017		S8037	27 97.298	-0.082	0.000	0.09		
1.018	S8039 - Headwall	27	97.298	0.383	0.000	0.41		
1.019	S8051 - Headwall	28	96.900	0.000	0.000	0.21		
1.020	S8052 Control Chamber	22	97.296	0.496	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 2.9	OK
1.012		S8028 62.3	OK
1.013		S8029 63.3	OK
1.014		S8030 64.1	OK
1.015		S8031 65.7	OK
1.016		S8034 68.7	OK
1.017		S8037 70.7	OK
1.018	S8039 - Headwall	72.2	SURCHARGED*
1.019	S8051 - Headwall	71.9	SURCHARGED*
1.020	S8052 Control Chamber	9.4	SURCHARGED

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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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Return Period(s) (years)		1, 30, 100																																																																																																																																																												
Climate Change (%)		0, 0, 40																																																																																																																																																												
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm Rank</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th><th>Flow / Overflow Cap. (l/s)</th></tr><tr><td>1.000</td><td>S8104 Jelson</td><td>60</td><td>102.152</td><td>-0.264</td><td>0.000</td><td>0.04</td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>60</td><td>101.831</td><td>-0.258</td><td>0.000</td><td>0.05</td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>60</td><td>101.581</td><td>-0.255</td><td>0.000</td><td>0.05</td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>60</td><td>101.117</td><td>-0.404</td><td>0.000</td><td>0.02</td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>60</td><td>100.858</td><td>-0.398</td><td>0.000</td><td>0.03</td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>60</td><td>100.275</td><td>-0.391</td><td>0.000</td><td>0.04</td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>60</td><td>99.942</td><td>-0.466</td><td>0.000</td><td>0.03</td></tr><tr><td>1.007</td><td>S8010</td><td>60</td><td>99.649</td><td>-0.446</td><td>0.000</td><td>0.06</td></tr><tr><td>1.008</td><td>S8011</td><td>60</td><td>99.532</td><td>-0.453</td><td>0.000</td><td>0.05</td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>60</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>60</td><td>100.199</td><td>-0.240</td><td>0.000</td><td>0.09</td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>60</td><td>100.028</td><td>-0.258</td><td>0.000</td><td>0.21</td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>60</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>60</td><td>99.870</td><td>-0.473</td><td>0.000</td><td>0.02</td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>60</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>60</td><td>99.629</td><td>-0.421</td><td>0.000</td><td>0.07</td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>60</td><td>99.594</td><td>-0.384</td><td>0.000</td><td>0.16</td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>60</td><td>99.526</td><td>-0.425</td><td>0.000</td><td>0.08</td></tr><tr><td>1.009</td><td>S8023</td><td>60</td><td>99.462</td><td>-0.363</td><td>0.000</td><td>0.21</td></tr><tr><td>1.010</td><td>S8025</td><td>60</td><td>99.294</td><td>-0.456</td><td>0.000</td><td>0.13</td></tr><tr><td>1.011</td><td>S8026</td><td>60</td><td>99.134</td><td>-0.506</td><td>0.000</td><td>0.06</td></tr></table>					PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	1.000	S8104 Jelson	60	102.152	-0.264	0.000	0.04	1.001	S8172 Jelson	60	101.831	-0.258	0.000	0.05	1.002	S8105 Jelson	60	101.581	-0.255	0.000	0.05	1.003	S8107 Jelson	60	101.117	-0.404	0.000	0.02	1.004	S8171 Jelson	60	100.858	-0.398	0.000	0.03	1.005	S8170 Jelson	60	100.275	-0.391	0.000	0.04	1.006	S8009 - Jelson Connection	60	99.942	-0.466	0.000	0.03	1.007	S8010	60	99.649	-0.446	0.000	0.06	1.008	S8011	60	99.532	-0.453	0.000	0.05	2.000	S8108 Jelson	60	100.593	-0.262	0.000	0.04	2.001	S8109 Jelson	60	100.199	-0.240	0.000	0.09	2.002	S8110 Jelson	60	100.028	-0.258	0.000	0.21	3.000	S8115 Jelson	60	100.047	-0.503	0.000	0.01	3.001	S8116 Jelson	60	99.870	-0.473	0.000	0.02	2.003	S8111 Jelson	60	99.799	-0.460	0.000	0.04	2.004	S8112 Jelson	60	99.629	-0.421	0.000	0.07	2.005	S8113 Jelson	60	99.594	-0.384	0.000	0.16	2.006	S8022 Jelson Connection	60	99.526	-0.425	0.000	0.08	1.009	S8023	60	99.462	-0.363	0.000	0.21	1.010	S8025	60	99.294	-0.456	0.000	0.13	1.011	S8026	60	99.134	-0.506	0.000	0.06
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																								
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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 / Overflow		Half Drain
			Level (m)	Depth (m)	Volume (m³)			Time (mins)
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	30 97.291	-0.089	0.000	0.07		
1.018	S8039 - Headwall	29	97.291	0.376	0.000	0.33		
1.019	S8051 - Headwall	16	96.900	0.000	0.000	0.17		
1.020	S8052 Control Chamber	24	97.289	0.489	0.000	0.02		

PN	US/MH Name	Pipe		Status
		Flow (l/s)		
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	56.4	OK
1.018	S8039 - Headwall	57.6		SURCHARGED*
1.019	S8051 - Headwall	57.6		SURCHARGED*
1.020	S8052 Control Chamber	9.3		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																
<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><td></td><td></td><td></td><td>Water</td><td>Surcharged</td><td>Flooded</td><td></td></tr><tr><td>PN</td><td>US/MH Name</td><td>Storm Rank</td><td>Level (m)</td><td>Depth (m)</td><td>Volume (m³)</td><td>Flow / Overflow Cap. (l/s)</td></tr></table>								Water	Surcharged	Flooded		PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)
			Water	Surcharged	Flooded													
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)												
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												

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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 34	97.264	-0.116	0.000	0.05	
1.018	S8039 - Headwall	32	97.264	0.349	0.000	0.24	
1.019	S8051 - Headwall	17	96.900	0.000	0.000	0.12	
1.020	S8052 Control Chamber	27	97.262	0.462	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 41.1	OK
1.018	S8039 - Headwall	42.0	SURCHARGED*
1.019	S8051 - Headwall	42.0	SURCHARGED*
1.020	S8052 Control Chamber	9.2	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	Half Drain Pipe		Status
		Time (mins)	Flow (l/s)	
1.000	S8104 Jelson		91.9	FLOOD RISK
1.001	S8172 Jelson		132.9	FLOOD RISK
1.002	S8105 Jelson		142.2	SURCHARGED
1.003	S8107 Jelson		147.8	SURCHARGED
1.004	S8171 Jelson		267.2	SURCHARGED
1.005	S8170 Jelson		264.9	FLOOD RISK
1.006	S8009 - Jelson Connection		256.3	FLOOD
1.007	S8010		313.3	FLOOD
1.008	S8011		328.7	FLOOD RISK
2.000	S8108 Jelson		100.1	FLOOD
2.001	S8109 Jelson		149.3	FLOOD
2.002	S8110 Jelson		187.9	SURCHARGED
3.000	S8115 Jelson	7	228.9	FLOOD RISK
3.001	S8116 Jelson		231.2	SURCHARGED
2.003	S8111 Jelson		260.7	SURCHARGED
2.004	S8112 Jelson		263.7	SURCHARGED
2.005	S8113 Jelson		266.6	SURCHARGED
2.006	S8022 Jelson Connection		298.2	FLOOD RISK

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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	1	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	39	97.112	0.312	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	8.5	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 Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
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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<u>Summary Wizard of 30 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		79.3	SURCHARGED
1.001	S8172 Jelson		110.2	SURCHARGED
1.002	S8105 Jelson		121.8	SURCHARGED
1.003	S8107 Jelson		133.2	SURCHARGED
1.004	S8171 Jelson		237.8	SURCHARGED
1.005	S8170 Jelson		216.9	SURCHARGED
1.006	S8009 - Jelson Connection		219.8	FLOOD RISK
1.007	S8010		244.6	FLOOD RISK
1.008	S8011		255.3	SURCHARGED
2.000	S8108 Jelson		82.7	FLOOD RISK
2.001	S8109 Jelson		134.0	FLOOD RISK
2.002	S8110 Jelson		169.0	SURCHARGED
3.000	S8115 Jelson	8	187.7	FLOOD RISK
3.001	S8116 Jelson		196.4	SURCHARGED
2.003	S8111 Jelson		247.2	SURCHARGED
2.004	S8112 Jelson		262.1	SURCHARGED
2.005	S8113 Jelson		276.6	SURCHARGED
2.006	S8022 Jelson Connection		292.2	SURCHARGED
1.009	S8023		476.9	SURCHARGED
1.010	S8025		553.9	SURCHARGED
1.011	S8026		578.7	SURCHARGED
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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 2	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	97.313	0.513	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	9.4	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																																																																																																																																																																																			
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<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 Cap.</th><th rowspan="2">(l/s)</th></tr><tr><th>Level (m)</th><th>Depth (m)</th><th>Volume (m³)</th></tr></thead><tbody><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><td></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><td></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><td></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><td></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><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>6</td><td>100.845</td><td>0.179</td><td>0.000</td><td>0.58</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>6</td><td>100.790</td><td>0.382</td><td>0.000</td><td>0.39</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>6</td><td>100.752</td><td>0.657</td><td>0.000</td><td>0.74</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>6</td><td>100.698</td><td>0.713</td><td>0.000</td><td>0.60</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>6</td><td>101.249</td><td>0.394</td><td>0.000</td><td>0.55</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>6</td><td>101.123</td><td>0.684</td><td>0.000</td><td>1.22</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>6</td><td>100.928</td><td>0.642</td><td>0.000</td><td>2.93</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>6</td><td>100.804</td><td>0.254</td><td>0.000</td><td>0.36</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>6</td><td>100.814</td><td>0.471</td><td>0.000</td><td>0.53</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>6</td><td>100.818</td><td>0.559</td><td>0.000</td><td>0.56</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>6</td><td>100.792</td><td>0.742</td><td>0.000</td><td>0.92</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>6</td><td>100.755</td><td>0.777</td><td>0.000</td><td>2.01</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>6</td><td>100.714</td><td>0.763</td><td>0.000</td><td>0.96</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>6</td><td>100.650</td><td>0.825</td><td>0.000</td><td>2.46</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>6</td><td>100.245</td><td>0.496</td><td>0.000</td><td>1.57</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>6</td><td>100.008</td><td>0.368</td><td>0.000</td><td>0.70</td><td></td></tr></tbody></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	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	100.845	0.179	0.000	0.58		1.006	S8009 - Jelson Connection	6	100.790	0.382	0.000	0.39		1.007	S8010	6	100.752	0.657	0.000	0.74		1.008	S8011	6	100.698	0.713	0.000	0.60		2.000	S8108 Jelson	6	101.249	0.394	0.000	0.55		2.001	S8109 Jelson	6	101.123	0.684	0.000	1.22		2.002	S8110 Jelson	6	100.928	0.642	0.000	2.93		3.000	S8115 Jelson	6	100.804	0.254	0.000	0.36		3.001	S8116 Jelson	6	100.814	0.471	0.000	0.53		2.003	S8111 Jelson	6	100.818	0.559	0.000	0.56		2.004	S8112 Jelson	6	100.792	0.742	0.000	0.92		2.005	S8113 Jelson	6	100.755	0.777	0.000	2.01		2.006	S8022 Jelson Connection	6	100.714	0.763	0.000	0.96		1.009	S8023	6	100.650	0.825	0.000	2.46		1.010	S8025	6	100.245	0.496	0.000	1.57		1.011	S8026	6	100.008	0.368	0.000	0.70	
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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		183.4	SURCHARGED
2.000	S8108 Jelson		56.6	SURCHARGED
2.001	S8109 Jelson		92.8	SURCHARGED
2.002	S8110 Jelson		118.4	SURCHARGED
3.000	S8115 Jelson	8	100.9	SURCHARGED
3.001	S8116 Jelson		120.7	SURCHARGED
2.003	S8111 Jelson		195.7	SURCHARGED
2.004	S8112 Jelson		217.6	SURCHARGED
2.005	S8113 Jelson		238.5	SURCHARGED
2.006	S8022 Jelson Connection		260.4	SURCHARGED
1.009	S8023		438.6	SURCHARGED
1.010	S8025		502.5	SURCHARGED
1.011	S8026		516.1	SURCHARGED
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Innovyze		Network 2020.1.3

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 / Cap.	Overflow (l/s)	Half Drain Time (mins)
4.000		S8068	6 99.813	0.473	0.000	0.44		
1.012		S8028	6 99.765	0.671	0.000	1.65		
1.013		S8029	6 99.444	0.474	0.000	0.99		
1.014		S8030	6 99.112	0.492	0.000	1.49		
1.015		S8031	6 98.771	0.311	0.000	1.05		
1.016		S8034	6 98.380	0.300	0.000	0.69		
1.017		S8037	10 97.891	0.511	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	97.502	0.702	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 30.1	SURCHARGED
1.012		S8028 584.1	SURCHARGED
1.013		S8029 588.8	SURCHARGED
1.014		S8030 595.8	SURCHARGED
1.015		S8031 610.8	SURCHARGED
1.016		S8034 628.1	SURCHARGED
1.017		S8037 645.4	SURCHARGED
1.018	S8039 - Headwall	669.7	SURCHARGED*
1.019	S8051 - Headwall	675.4	SURCHARGED*
1.020	S8052 Control Chamber	10.2	SURCHARGED

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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	12 97.947	-0.133	0.000	0.51		
1.017		S8037	22 97.730	0.350	0.000	0.60		
1.018	S8039 - Headwall	16	97.334	0.419	0.000	2.79		
1.019	S8051 - Headwall	21	96.900	0.000	0.000	1.43		
1.020	S8052 Control Chamber	16	97.674	0.874	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 465.3	OK
1.017		S8037 477.2	SURCHARGED
1.018	S8039 - Headwall	491.7	SURCHARGED*
1.019	S8051 - Headwall	495.7	SURCHARGED*
1.020	S8052 Control Chamber	10.9	SURCHARGED

Bloor Homes			Page 197																																																																																																																																																											
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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)																																																																																																																																																								
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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													
<u>Summary Wizard of 240 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	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									
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									

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

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
1.009	S8023		199.5	OK
1.010	S8025		224.4	OK
1.011	S8026		233.1	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)
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	15 97.827	-0.253	0.000	0.32		
1.017		S8037	14 97.818	0.438	0.000	0.38		
1.018	S8039 - Headwall	18	97.334	0.419	0.000	1.73		
1.019	S8051 - Headwall	23	96.900	0.000	0.000	0.88		
1.020	S8052 Control Chamber	8	97.812	1.012	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
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 298.6	SURCHARGED
1.018	S8039 - Headwall	304.2	SURCHARGED*
1.019	S8051 - Headwall	306.5	SURCHARGED*
1.020	S8052 Control Chamber	11.4	SURCHARGED

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Hot Start Level (mm)		0	Inlet Coefficient 0.800																																																																																																																																																																																				
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Number of Input Hydrographs		0	Number of Storage Structures 2																																																																																																																																																																																				
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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</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>30</td><td>102.190</td><td>-0.226</td><td>0.000</td><td>0.14</td><td></td></tr><tr><td>1.001</td><td>S8172 Jelson</td><td>30</td><td>101.875</td><td>-0.214</td><td>0.000</td><td>0.18</td><td></td></tr><tr><td>1.002</td><td>S8105 Jelson</td><td>30</td><td>101.629</td><td>-0.207</td><td>0.000</td><td>0.21</td><td></td></tr><tr><td>1.003</td><td>S8107 Jelson</td><td>30</td><td>101.159</td><td>-0.362</td><td>0.000</td><td>0.09</td><td></td></tr><tr><td>1.004</td><td>S8171 Jelson</td><td>29</td><td>100.909</td><td>-0.347</td><td>0.000</td><td>0.12</td><td></td></tr><tr><td>1.005</td><td>S8170 Jelson</td><td>29</td><td>100.337</td><td>-0.329</td><td>0.000</td><td>0.16</td><td></td></tr><tr><td>1.006</td><td>S8009 - Jelson Connection</td><td>29</td><td>100.000</td><td>-0.407</td><td>0.000</td><td>0.11</td><td></td></tr><tr><td>1.007</td><td>S8010</td><td>29</td><td>99.750</td><td>-0.345</td><td>0.000</td><td>0.22</td><td></td></tr><tr><td>1.008</td><td>S8011</td><td>29</td><td>99.678</td><td>-0.307</td><td>0.000</td><td>0.18</td><td></td></tr><tr><td>2.000</td><td>S8108 Jelson</td><td>30</td><td>100.633</td><td>-0.222</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>2.001</td><td>S8109 Jelson</td><td>30</td><td>100.260</td><td>-0.179</td><td>0.000</td><td>0.34</td><td></td></tr><tr><td>2.002</td><td>S8110 Jelson</td><td>29</td><td>100.173</td><td>-0.113</td><td>0.000</td><td>0.83</td><td></td></tr><tr><td>3.000</td><td>S8115 Jelson</td><td>30</td><td>100.088</td><td>-0.462</td><td>0.000</td><td>0.03</td><td></td></tr><tr><td>3.001</td><td>S8116 Jelson</td><td>29</td><td>99.924</td><td>-0.419</td><td>0.000</td><td>0.08</td><td></td></tr><tr><td>2.003</td><td>S8111 Jelson</td><td>29</td><td>99.867</td><td>-0.392</td><td>0.000</td><td>0.15</td><td></td></tr><tr><td>2.004</td><td>S8112 Jelson</td><td>29</td><td>99.775</td><td>-0.275</td><td>0.000</td><td>0.27</td><td></td></tr><tr><td>2.005</td><td>S8113 Jelson</td><td>29</td><td>99.756</td><td>-0.222</td><td>0.000</td><td>0.63</td><td></td></tr><tr><td>2.006</td><td>S8022 Jelson Connection</td><td>29</td><td>99.687</td><td>-0.264</td><td>0.000</td><td>0.32</td><td></td></tr><tr><td>1.009</td><td>S8023</td><td>29</td><td>99.663</td><td>-0.162</td><td>0.000</td><td>0.82</td><td></td></tr><tr><td>1.010</td><td>S8025</td><td>28</td><td>99.454</td><td>-0.296</td><td>0.000</td><td>0.51</td><td></td></tr><tr><td>1.011</td><td>S8026</td><td>28</td><td>99.235</td><td>-0.405</td><td>0.000</td><td>0.23</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	30	102.190	-0.226	0.000	0.14		1.001	S8172 Jelson	30	101.875	-0.214	0.000	0.18		1.002	S8105 Jelson	30	101.629	-0.207	0.000	0.21		1.003	S8107 Jelson	30	101.159	-0.362	0.000	0.09		1.004	S8171 Jelson	29	100.909	-0.347	0.000	0.12		1.005	S8170 Jelson	29	100.337	-0.329	0.000	0.16		1.006	S8009 - Jelson Connection	29	100.000	-0.407	0.000	0.11		1.007	S8010	29	99.750	-0.345	0.000	0.22		1.008	S8011	29	99.678	-0.307	0.000	0.18		2.000	S8108 Jelson	30	100.633	-0.222	0.000	0.15		2.001	S8109 Jelson	30	100.260	-0.179	0.000	0.34		2.002	S8110 Jelson	29	100.173	-0.113	0.000	0.83		3.000	S8115 Jelson	30	100.088	-0.462	0.000	0.03		3.001	S8116 Jelson	29	99.924	-0.419	0.000	0.08		2.003	S8111 Jelson	29	99.867	-0.392	0.000	0.15		2.004	S8112 Jelson	29	99.775	-0.275	0.000	0.27		2.005	S8113 Jelson	29	99.756	-0.222	0.000	0.63		2.006	S8022 Jelson Connection	29	99.687	-0.264	0.000	0.32		1.009	S8023	29	99.663	-0.162	0.000	0.82		1.010	S8025	28	99.454	-0.296	0.000	0.51		1.011	S8026	28	99.235	-0.405	0.000	0.23	
PN	US/MH Name	Storm Rank	Water	Surcharged				Flooded	Flow / Cap.	Overflow (l/s)																																																																																																																																																																													
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1.005	S8170 Jelson	29	100.337	-0.329	0.000	0.16																																																																																																																																																																																	
1.006	S8009 - Jelson Connection	29	100.000	-0.407	0.000	0.11																																																																																																																																																																																	
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Bloor Homes			Page 204	
Ashby Road Measham Swadlincote DE12 7JP				
Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...		Designed by d_southa Checked by		
Innovyze		Network 2020.1.3		
<u>Summary Wizard of 360 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		14.3	OK
1.001	S8172 Jelson		21.2	OK
1.002	S8105 Jelson		24.0	OK
1.003	S8107 Jelson		24.9	OK
1.004	S8171 Jelson		46.9	OK
1.005	S8170 Jelson		46.9	OK
1.006	S8009 - Jelson Connection		46.9	OK
1.007	S8010		52.5	OK
1.008	S8011		54.5	OK
2.000	S8108 Jelson		15.8	OK
2.001	S8109 Jelson		26.0	OK
2.002	S8110 Jelson		33.6	OK
3.000	S8115 Jelson	72	9.8	OK
3.001	S8116 Jelson		16.9	OK
2.003	S8111 Jelson		51.1	OK
2.004	S8112 Jelson		63.3	OK
2.005	S8113 Jelson		75.1	OK
2.006	S8022 Jelson Connection		87.7	OK
1.009	S8023		146.0	OK
1.010	S8025		163.9	OK
1.011	S8026		170.1	OK
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Ashby Road Measham Swadlincote DE12 7JP		
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Innovyze	Network 2020.1.3	

Summary Wizard of 360 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	30 99.112	-0.228	0.000	0.13		
1.012		S8028	28 98.811	-0.283	0.000	0.55		
1.013		S8029	28 98.607	-0.363	0.000	0.33		
1.014		S8030	28 98.319	-0.301	0.000	0.49		
1.015		S8031	28 98.104	-0.356	0.000	0.35		
1.016		S8034	14 97.890	-0.190	0.000	0.23		
1.017		S8037	11 97.884	0.504	0.000	0.28		
1.018	S8039 - Headwall	19	97.334	0.419	0.000	1.27		
1.019	S8051 - Headwall	24	96.900	0.000	0.000	0.65		
1.020	S8052 Control Chamber	6	97.879	1.079	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 9.0	OK
1.012		S8028 193.1	OK
1.013		S8029 195.8	OK
1.014		S8030 198.3	OK
1.015		S8031 203.2	OK
1.016		S8034 212.5	OK
1.017		S8037 218.4	SURCHARGED
1.018	S8039 - Headwall	224.4	SURCHARGED*
1.019	S8051 - Headwall	226.2	SURCHARGED*
1.020	S8052 Control Chamber	11.6	SURCHARGED

Bloor Homes			Page 206																																																																																																																																																																																									
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<u>Summary Wizard of 480 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																																																																																																																																																																																												
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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																																																																																																																																																																																												
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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1.002	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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Summary Wizard of 480 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 34	99.105	-0.235	0.000	0.11		
1.012		S8028 34	98.771	-0.323	0.000	0.44		
1.013		S8029 34	98.579	-0.391	0.000	0.26		
1.014		S8030 34	98.282	-0.338	0.000	0.40		
1.015		S8031 33	98.075	-0.385	0.000	0.28		
1.016		S8034 13	97.927	-0.153	0.000	0.19		
1.017		S8037 8	97.923	0.543	0.000	0.22		
1.018	S8039 - Headwall	20	97.334	0.419	0.000	1.02		
1.019	S8051 - Headwall	25	96.900	0.000	0.000	0.52		
1.020	S8052 Control Chamber	5	97.919	1.119	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
4.000		S8068 7.2	OK
1.012		S8028 154.3	OK
1.013		S8029 156.6	OK
1.014		S8030 158.6	OK
1.015		S8031 162.3	OK
1.016		S8034 169.8	OK
1.017		S8037 174.3	FLOOD RISK
1.018	S8039 - Headwall	179.4	SURCHARGED*
1.019	S8051 - Headwall	180.8	SURCHARGED*
1.020	S8052 Control Chamber	11.7	SURCHARGED

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Summary Wizard of 600 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	39	102.177	-0.239	0.000	0.09
1.001	S8172 Jelson	39	101.858	-0.231	0.000	0.12
1.002	S8105 Jelson	39	101.611	-0.225	0.000	0.14
1.003	S8107 Jelson	39	101.140	-0.381	0.000	0.06
1.004	S8171 Jelson	39	100.891	-0.365	0.000	0.08
1.005	S8170 Jelson	39	100.315	-0.351	0.000	0.11
1.006	S8009 - Jelson Connection	39	99.978	-0.429	0.000	0.08
1.007	S8010	39	99.704	-0.391	0.000	0.14
1.008	S8011	39	99.607	-0.378	0.000	0.12
2.000	S8108 Jelson	39	100.619	-0.236	0.000	0.10
2.001	S8109 Jelson	39	100.236	-0.203	0.000	0.23
2.002	S8110 Jelson	39	100.111	-0.175	0.000	0.56
3.000	S8115 Jelson	39	100.079	-0.471	0.000	0.02
3.001	S8116 Jelson	39	99.901	-0.442	0.000	0.05
2.003	S8111 Jelson	39	99.843	-0.416	0.000	0.10
2.004	S8112 Jelson	39	99.713	-0.337	0.000	0.18
2.005	S8113 Jelson	39	99.690	-0.288	0.000	0.42
2.006	S8022 Jelson Connection	39	99.612	-0.339	0.000	0.22

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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
1.009		S8023 39	99.577	-0.248	0.000	0.55	
1.010		S8025 38	99.391	-0.358	0.000	0.34	
1.011		S8026 38	99.196	-0.444	0.000	0.15	
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	97.953	-0.127	0.000	0.16	
1.017		S8037 7	97.949	0.569	0.219	0.18	
1.018	S8039 - Headwall	21	97.334	0.419	0.000	0.86	
1.019	S8051 - Headwall	26	96.900	0.000	0.000	0.44	
1.020	S8052 Control Chamber	4	97.946	1.146	0.000	0.02	

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009		S8023 97.7	OK
1.010		S8025 109.8	OK
1.011		S8026 114.0	OK
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 146.5	FLOOD
1.018	S8039 - Headwall	150.7	SURCHARGED*
1.019	S8051 - Headwall	152.0	SURCHARGED*
1.020	S8052 Control Chamber	11.8	FLOOD RISK

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Summary Wizard of 720 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	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

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		Half Drain	Pipe
	US/MH	Time	Flow
PN	Name	(mins)	(l/s) Status
1.000	S8104 Jelson		8.3 OK
1.001	S8172 Jelson		12.3 OK
1.002	S8105 Jelson		13.8 OK
1.003	S8107 Jelson		14.4 OK
1.004	S8171 Jelson		27.1 OK
1.005	S8170 Jelson		27.1 OK
1.006	S8009 - Jelson Connection		27.1 OK
1.007	S8010		30.4 OK
1.008	S8011		31.5 OK
2.000	S8108 Jelson		9.1 OK
2.001	S8109 Jelson		15.0 OK
2.002	S8110 Jelson		19.4 OK
3.000	S8115 Jelson	132	5.7 OK
3.001	S8116 Jelson		9.8 OK
2.003	S8111 Jelson		29.5 OK
2.004	S8112 Jelson		36.5 OK
2.005	S8113 Jelson		43.4 OK
2.006	S8022 Jelson Connection		50.7 OK

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Summary Wizard of 720 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 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		
4.000		S8068 42	99.095	-0.245	0.000	0.08		
1.012		S8028 42	98.725	-0.369	0.000	0.32		
1.013		S8029 42	98.547	-0.423	0.000	0.19		
1.014		S8030 42	98.238	-0.382	0.000	0.29		
1.015		S8031 42	98.042	-0.418	0.000	0.20		
1.016		S8034 9	97.966	-0.114	0.000	0.13		
1.017		S8037 5	97.963	0.583	0.723	0.16		
1.018	S8039 - Headwall	22	97.334	0.419	0.000	0.74		
1.019	S8051 - Headwall	27	96.900	0.000	0.000	0.38		
1.020	S8052 Control Chamber	2	97.960	1.160	0.000	0.02		

PN	US/MH Name	Pipe Flow (l/s)	Status
1.009		S8023 84.5	OK
1.010		S8025 94.9	OK
1.011		S8026 98.6	OK
4.000		S8068 5.2	OK
1.012		S8028 111.9	OK
1.013		S8029 113.7	OK
1.014		S8030 115.2	OK
1.015		S8031 118.0	OK
1.016		S8034 123.6	OK
1.017		S8037 127.0	FLOOD
1.018	S8039 - Headwall	130.7	SURCHARGED*
1.019	S8051 - Headwall	131.8	SURCHARGED*
1.020	S8052 Control Chamber	11.9	FLOOD RISK

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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

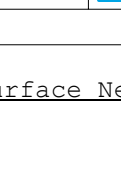
Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

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 1440 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	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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Date 09/04/2026 09:23 File PH7A - FITCHETT STORM. ...	Designed by d_southa 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	10 97.963	-0.117	0.000	0.08		
1.017		S8037	6 97.960	0.580	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	3	97.958	1.158	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	FLOOD RISK
1.018	S8039 - Headwall	75.3	SURCHARGED*
1.019	S8051 - Headwall	76.0	SURCHARGED*
1.020	S8052 Control Chamber	11.9	FLOOD RISK