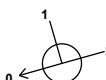
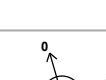


CAUSEWAY		Curtins Consulting Ltd		File: 074031 Site 2 Stage 5 23.10.23 UPDATED				Page 1				
		17-19 WHITWORTH STREET WEST, MANCHESTER M1 5WG		Network: Site 2 Storm Charlie Smith 26/11/2024								
Design Settings												
Rainfall Methodology		FSR		Maximum Time of Concentration (mins)		30.00						
Return Period (years)		1		Maximum Rainfall (mm/hr)		50.0						
Additional Flow (%)		0		Minimum Velocity (m/s)		1.00						
FSR Region		England and Wales		Connection Type		Level Soffits						
M5-60 (mm)		18.600		Minimum Backdrop Height (m)		1.200						
Ratio-R		0.321		Preferred Cover Depth (m)		1.200						
CV		0.750		Include Intermediate Ground		✓						
Time of Entry (mins)		5.00		Enforce best practice design rules		x						
Nodes												
	Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)				
	101	0.002	5.00	88.223	450	388153.025	400710.199	1.023				
	102	0.016	5.00	88.301	450	388154.856	400703.670	1.301				
	103	0.029	5.00	88.070	450	388127.793	400707.722	1.270				
	104	0.012	5.00	88.066	600	388130.895	400696.974	1.454				
	105	0.020	5.00	87.852	450	388104.006	400700.982	1.482				
	106	0.000	5.00	87.561	1500	388107.137	400690.189	1.731				
	107	0.011	5.00	87.489	450	388084.166	400697.154	1.039				
	108	0.010	5.00	87.620	450	388093.148	400667.381	1.330				
	109	0.013	5.00	87.560	600	388090.476	400676.400	1.439				
	110	0.009	5.00	87.509	1500	388109.444	400682.072	1.732				
	111	0.006	5.00	88.183	450	388129.156	400669.136	1.313				
	112	0.005	5.00	88.295	450	388131.267	400660.953	1.531				
	113	0.006	5.00	87.782	450	388108.984	400654.553	1.032				
	114	0.011	5.00	87.888	450	388116.857	400656.761	1.312				
	115	0.009	5.00	87.765	450	388106.463	400666.721	1.665				
	116	0.019	5.00	87.717	450	388113.431	400668.645	1.706				
	117			87.669	1500	388111.149	400676.128	1.931				
	118	0.021	5.00	89.142	450	388164.245	400669.424	1.542				
	119	0.010	5.00	88.701	450	388140.842	400662.589	1.345				
	120	0.003	5.00	89.143	450	388166.169	400681.965	1.343				
	121	0.006	5.00	89.113	450	388165.055	400685.311	1.384				
	122	0.012	5.00	88.818	450	388150.025	400681.171	1.401				
	123	0.007	5.00	88.489	600	388136.394	400677.284	1.430				
	124	0.026	5.00	88.246	1500	388134.065	400684.932	1.267				
	125	0.005	5.00	87.950	450	388121.471	400687.069	1.100				
	126	0.030	5.00	87.904	1200	388122.622	400681.694	2.037				
	TANK			87.780	1500	388122.022	400679.267	2.113				
	127			88.217	1500	388132.108	400681.996	2.615				
	C101			88.485	1500	388137.390	400663.326	3.421				
	OUT			88.377		388136.580	400653.505	3.412				
Links (Input)												
	Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
	1.000	101	102	6.781	0.600	87.200	87.000	0.200	33.9	150	5.07	45.4
	1.001	102	104	24.879	0.600	87.000	86.687	0.313	79.5	150	5.43	44.1
	2.000	103	104	11.187	0.600	86.800	86.687	0.113	99.0	150	5.18	44.9
	1.002	104	106	24.708	0.600	86.612	86.365	0.247	100.0	225	5.75	43.1
	3.000	105	106	11.238	0.600	86.370	85.905	0.465	24.2	150	5.09	45.3
	1.003	106	110	8.438	0.600	85.830	85.777	0.053	160.0	225	5.88	42.6
	4.000	107	109	21.692	0.600	86.450	86.196	0.254	85.4	150	5.33	44.4
	5.000	108	109	9.406	0.600	86.290	86.196	0.094	100.0	150	5.16	45.0
	4.001	109	110	19.798	0.600	86.121	85.777	0.344	57.6	225	5.52	43.8
	1.004	110	117	6.184	0.600	85.777	85.738	0.039	160.0	225	5.98	42.3
	6.000	111	112	8.451	0.600	86.870	86.764	0.106	79.7	150	5.13	45.2
	6.001	112	114	15.007	0.600	86.764	86.576	0.188	79.8	150	5.35	44.4
	7.000	113	114	8.177	0.600	86.750	86.576	0.174	47.0	150	5.09	45.3
	6.002	114	116	12.368	0.600	86.576	86.111	0.465	26.6	150	5.45	44.0
	8.000	115	116	7.229	0.600	86.100	86.011	0.089	81.2	150	5.11	45.2
	6.003	116	117	7.823	0.600	86.011	85.813	0.198	39.5	150	5.53	43.7
	1.005	117	TANK	11.317	0.600	85.738	85.667	0.071	160.0	225	6.17	41.8
	9.000	118	119	24.381	0.600	87.600	87.356	0.244	99.9	150	5.40	44.2
	9.001	119	123	15.353	0.600	87.356	87.162	0.194	79.1	150	5.63	43.4
	10.000	120	121	3.527	0.600	87.800	87.729	0.071	50.0	150	5.04	45.5
	10.001	121	122	15.590	0.600	87.729	87.417	0.312	50.0	150	5.22	44.8
	10.002	122	123	14.174	0.600	87.417	87.134	0.283	50.0	150	5.39	44.2
	9.002	123	124	7.995	0.600	87.059	86.979	0.080	100.0	225	5.73	43.1
	9.003	124	126	11.892	0.600	86.979	86.682	0.297	40.0	225	5.83	42.8
	11.000	125	126	5.497	0.600	86.850	86.693	0.157	35.0	150	5.05	45.4
	9.004	126	TANK	2.500	0.600	85.867	85.851	0.016	160.0	225	5.87	42.7
	1.006	TANK	127	10.449	0.600	85.667	85.602	0.065	160.0	225	6.34	41.3
	1.007	127	C101	19.403	0.600	85.602	85.214	0.388	50.0	150	6.56	40.6
	1.008	C101	OUT	9.854	0.600	85.064	84.965	0.099	100.0	300	6.67	40.3
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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
101	388153.025	400710.199	88.223	1.023	450	 0	0	1.000	87.200	150
102	388154.856	400703.670	88.301	1.301	450	 1 0	1	1.000	87.000	150
						0	0	1.001	87.000	150
103	388127.793	400707.722	88.070	1.270	450	 0	0	2.000	86.800	150
104	388130.895	400696.974	88.066	1.454	600	 1 0 2	1	2.000	86.687	150
						2	2	1.001	86.687	150
						0	0	1.002	86.612	225
105	388104.006	400700.982	87.852	1.482	450	 0	0	3.000	86.370	150
106	388107.137	400690.189	87.561	1.731	1500	 1 0 2	1	3.000	85.905	150
						2	2	1.002	86.365	225
						0	0	1.003	85.830	225
107	388084.166	400697.154	87.489	1.039	450	 0	0	4.000	86.450	150
108	388093.148	400667.381	87.620	1.330	450	 0	0	5.000	86.290	150
109	388090.476	400676.400	87.560	1.439	600	 2 0 1	1	5.000	86.196	150
						2	2	4.000	86.196	150
						1	0	4.001	86.121	225
110	388109.444	400682.072	87.509	1.732	1500	 2 1 0	1	4.001	85.777	225
						2	2	1.003	85.777	225
						0	0	1.004	85.777	225
111	388129.156	400669.136	88.183	1.313	450	 0	0	6.000	86.870	150
112	388131.267	400660.953	88.295	1.531	450	 1 0	1	6.000	86.764	150
						0	0	6.001	86.764	150
113	388108.984	400654.553	87.782	1.032	450	 0	0	7.000	86.750	150
114	388116.857	400656.761	87.888	1.312	450	 0 1 2	1	7.000	86.576	150
						2	2	6.001	86.576	150
						0	0	6.002	86.576	150
115	388106.463	400666.721	87.765	1.665	450	 0	0	8.000	86.100	150
116	388113.431	400668.645	87.717	1.706	450	 0 1 2	1	8.000	86.011	150
						2	2	6.002	86.111	150
						0	0	6.003	86.011	150
117	388111.149	400676.128	87.669	1.931	1500	 2 0 1	1	6.003	85.813	150
						2	2	1.004	85.738	225
						0	0	1.005	85.738	225
118	388164.245	400669.424	89.142	1.542	450	 0	0	9.000	87.600	150
119	388140.842	400662.589	88.701	1.345	450	 0 1	1	9.000	87.356	150
						0	0	9.001	87.356	150
120	388166.169	400681.965	89.143	1.343	450	 0	0	10.000	87.800	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
121	388165.055	400685.311	89.113	1.384	450		1 10.000	87.729	150
							0 10.001	87.729	150
122	388150.025	400681.171	88.818	1.401	450		1 10.001	87.417	150
							0 10.002	87.417	150
123	388136.394	400677.284	88.489	1.430	600		1 10.002	87.134	150
							2 9.001	87.162	150
							0 9.002	87.059	225
124	388134.065	400684.932	88.246	1.267	1500		1 9.002	86.979	225
							0 9.003	86.979	225
125	388121.471	400687.069	87.950	1.100	450		0 11.000	86.850	150
126	388122.622	400681.694	87.904	2.037	1200		1 11.000	86.693	150
							2 9.003	86.682	225
							0 9.004	85.867	225
TANK	388122.022	400679.267	87.780	2.113	1500		1 9.004	85.851	225
							2 1.005	85.667	225
							0 1.006	85.667	225
127	388132.108	400681.996	88.217	2.615	1500		1 1.006	85.602	225
							0 1.007	85.602	150
C101	388137.390	400663.326	88.485	3.421	1500		1 1.007	85.214	150
							0 1.008	85.064	300
OUT	388136.580	400653.505	88.377	3.412			1 1.008	84.965	300

Simulation Settings

Rainfall Methodology	FSR	Summer CV	0.750	Drain Down Time (mins)	240
FSR Region	England and Wales	Winter CV	0.840	Additional Storage (m³/ha)	20.0
M5-60 (mm)	18.600	Analysis Speed	Detailed	Check Discharge Rate(s)	x
Ratio-R	0.321	Skip Steady State	x	Check Discharge Volume	x

Storm Durations

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	100	40	0	0
30	0	0	0				

Node OUT Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		
Applies to 30yr, 100yr+40% CC 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440 minute storms					

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	0.295	180	0.295	360	0.295	540	0.295	720	0.295	900	0.295	1080	0.295	1260	0.295
60	0.295	240	0.295	420	0.295	600	0.295	780	0.295	960	0.295	1140	0.295	1320	0.295
120	0.295	300	0.295	480	0.295	660	0.295	840	0.295	1020	0.295	1200	0.295	1380	0.295

Node 127 Online Orifice Control

Flap Valve	x	Invert Level (m)	85.602	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.075		

Node TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	85.667
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.96	Time to half empty (mins)	134

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	70.0	0.0	1.075	70.0	0.0	1.076	0.0	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	101	19	87.209	0.009	0.2	0.0017	0.0000	OK
15 minute winter	102	11	87.033	0.033	2.1	0.0133	0.0000	OK
15 minute winter	103	10	86.846	0.046	3.5	0.0286	0.0000	OK
15 minute winter	104	11	86.668	0.056	6.9	0.0252	0.0000	OK
15 minute winter	105	10	86.397	0.027	2.4	0.0114	0.0000	OK
15 minute winter	106	11	85.909	0.079	9.2	0.1400	0.0000	OK
15 minute winter	107	11	86.477	0.027	1.3	0.0099	0.0000	OK
15 minute winter	108	10	86.317	0.027	1.2	0.0082	0.0000	OK
15 minute winter	109	10	86.158	0.037	4.0	0.0169	0.0000	OK
60 minute winter	110	48	85.893	0.116	8.3	0.2178	0.0000	OK
15 minute winter	111	11	86.889	0.019	0.7	0.0048	0.0000	OK
15 minute winter	112	11	86.790	0.026	1.3	0.0058	0.0000	OK
15 minute winter	113	11	86.767	0.017	0.7	0.0047	0.0000	OK
15 minute winter	114	11	86.608	0.032	3.3	0.0105	0.0000	OK
15 minute winter	115	10	86.124	0.024	1.1	0.0064	0.0000	OK
15 minute winter	116	10	86.063	0.052	6.6	0.0200	0.0000	OK
60 minute winter	117	48	85.893	0.155	11.9	0.2744	0.0000	OK
15 minute winter	118	10	87.638	0.038	2.6	0.0165	0.0000	OK
15 minute winter	119	11	87.401	0.044	3.7	0.0137	0.0000	OK
15 minute winter	120	10	87.813	0.013	0.4	0.0026	0.0000	OK
15 minute winter	121	11	87.750	0.021	1.1	0.0051	0.0000	OK
15 minute winter	122	11	87.450	0.033	2.5	0.0107	0.0000	OK
15 minute winter	123	11	87.118	0.059	6.9	0.0225	0.0000	OK
15 minute winter	124	11	87.034	0.055	10.0	0.1208	0.0000	OK
15 minute summer	125	11	86.865	0.015	0.6	0.0038	0.0000	OK
15 minute winter	126	11	85.969	0.102	14.1	0.1460	0.0000	OK
60 minute winter	TANK	48	85.893	0.226	19.9	15.5813	0.0000	SURCHARGED
60 minute winter	127	48	85.891	0.289	5.8	0.5109	0.0000	SURCHARGED
60 minute winter	C101	48	85.112	0.048	5.7	0.0850	0.0000	OK
60 minute winter	OUT	48	85.011	0.046	5.7	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	101	1.000	102	0.2	0.156	0.007	0.0098	
15 minute winter	102	1.001	104	2.0	0.725	0.102	0.0699	
15 minute winter	103	2.000	104	3.4	0.764	0.193	0.0503	
15 minute winter	104	1.002	106	6.9	0.904	0.133	0.1886	
15 minute winter	105	3.000	106	2.4	1.146	0.065	0.0233	
15 minute winter	106	1.003	110	9.3	0.597	0.226	0.1319	
15 minute winter	107	4.000	109	1.3	0.618	0.067	0.0454	
15 minute winter	108	5.000	109	1.2	0.560	0.065	0.0195	
15 minute winter	109	4.001	110	4.0	0.458	0.058	0.2274	
15 minute winter	110	1.004	117	14.1	0.710	0.345	0.1232	
15 minute winter	111	6.000	112	0.7	0.423	0.035	0.0142	
15 minute winter	112	6.001	114	1.3	0.544	0.065	0.0359	
15 minute winter	113	7.000	114	0.7	0.383	0.027	0.0157	
15 minute winter	114	6.002	116	3.3	1.218	0.095	0.0335	
15 minute winter	115	8.000	116	1.1	0.306	0.054	0.0262	
15 minute winter	116	6.003	117	6.6	1.255	0.231	0.0409	
15 minute winter	117	1.005	TANK	20.5	1.347	0.501	0.2829	
15 minute winter	118	9.000	119	2.5	0.647	0.143	0.0955	
15 minute winter	119	9.001	123	3.6	0.850	0.182	0.0658	
15 minute winter	120	10.000	121	0.4	0.344	0.015	0.0039	
15 minute winter	121	10.001	122	1.1	0.496	0.042	0.0335	
15 minute winter	122	10.002	123	2.5	0.900	0.099	0.0393	
15 minute winter	123	9.002	124	7.0	0.880	0.134	0.0634	
15 minute winter	124	9.003	126	10.1	1.371	0.122	0.0873	
15 minute summer	125	11.000	126	0.6	0.666	0.020	0.0050	
15 minute winter	126	9.004	TANK	14.1	0.874	0.344	0.0404	
15 minute summer	TANK	1.006	127	8.8	0.545	0.214	0.3575	
60 minute winter	127	1.007	C101	5.7	1.139	0.228	0.0978	
60 minute winter	C101	1.008	OUT	5.7	0.816	0.052	0.0694	29.1

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	101	11	87.215	0.015	0.6	0.0029	0.0000	OK
15 minute winter	102	10	87.054	0.054	5.4	0.0217	0.0000	OK
15 minute winter	103	10	86.877	0.077	8.6	0.0477	0.0000	OK
15 minute winter	104	10	86.704	0.092	17.3	0.0411	0.0000	OK
15 minute winter	105	10	86.411	0.041	5.9	0.0175	0.0000	OK
120 minute winter	106	90	86.303	0.473	8.3	0.8350	0.0000	SURCHARGED
15 minute winter	107	10	86.492	0.042	3.3	0.0157	0.0000	OK
15 minute winter	108	10	86.333	0.043	3.0	0.0133	0.0000	OK
120 minute winter	109	92	86.302	0.181	3.6	0.0840	0.0000	OK
120 minute winter	110	92	86.302	0.525	12.2	0.9828	0.0000	SURCHARGED
15 minute winter	111	10	86.900	0.030	1.8	0.0076	0.0000	OK
15 minute winter	112	10	86.805	0.041	3.3	0.0091	0.0000	OK
15 minute winter	113	10	86.777	0.027	1.8	0.0073	0.0000	OK
15 minute winter	114	10	86.628	0.052	8.3	0.0169	0.0000	OK
120 minute winter	115	90	86.303	0.203	0.9	0.0542	0.0000	SURCHARGED
120 minute winter	116	90	86.303	0.292	5.8	0.1115	0.0000	SURCHARGED
120 minute winter	117	92	86.302	0.564	16.8	0.9961	0.0000	SURCHARGED
15 minute winter	118	10	87.661	0.061	6.2	0.0262	0.0000	OK
15 minute winter	119	10	87.430	0.074	9.1	0.0227	0.0000	OK
15 minute winter	120	10	87.819	0.019	0.9	0.0039	0.0000	OK
15 minute winter	121	10	87.762	0.033	2.7	0.0081	0.0000	OK
15 minute winter	122	10	87.469	0.052	6.2	0.0172	0.0000	OK
15 minute winter	123	11	87.156	0.097	17.1	0.0371	0.0000	OK
15 minute winter	124	11	87.070	0.091	24.6	0.1978	0.0000	OK
15 minute winter	125	10	86.873	0.023	1.5	0.0059	0.0000	OK
120 minute winter	126	92	86.300	0.433	12.4	0.6179	0.0000	SURCHARGED
120 minute winter	TANK	92	86.300	0.633	28.0	43.6555	0.0000	SURCHARGED
120 minute winter	127	92	86.295	0.693	9.3	1.2247	0.0000	SURCHARGED
15 minute winter	C101	11	85.269	0.205	7.8	0.3626	0.0000	OK
15 minute summer	OUT	1	85.260	0.295	9.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	101	1.000	102	0.6	0.205	0.020	0.0222	
15 minute winter	102	1.001	104	5.2	0.943	0.262	0.1384	
15 minute winter	103	2.000	104	8.5	0.963	0.475	0.0985	
15 minute winter	104	1.002	106	17.1	1.156	0.329	0.3661	
15 minute winter	105	3.000	106	5.9	1.358	0.161	0.1200	
15 minute winter	106	1.003	110	20.5	0.639	0.500	0.3356	
15 minute winter	107	4.000	109	3.2	0.800	0.166	0.0868	
15 minute winter	108	5.000	109	2.9	0.727	0.166	0.0381	
15 minute winter	109	4.001	110	9.9	0.521	0.145	0.4716	
15 minute summer	110	1.004	117	29.9	0.806	0.730	0.2459	
15 minute winter	111	6.000	112	1.8	0.559	0.089	0.0270	
15 minute winter	112	6.001	114	3.2	0.697	0.162	0.0695	
15 minute winter	113	7.000	114	1.8	0.487	0.069	0.0307	
15 minute winter	114	6.002	116	8.2	1.559	0.236	0.0647	
15 minute winter	115	8.000	116	2.7	0.372	0.135	0.0569	
15 minute winter	116	6.003	117	16.4	1.374	0.577	0.1190	
15 minute winter	117	1.005	TANK	43.0	1.480	1.049	0.4501	
15 minute winter	118	9.000	119	6.1	0.802	0.345	0.1864	
15 minute winter	119	9.001	123	8.9	1.074	0.448	0.1279	
15 minute winter	120	10.000	121	0.9	0.433	0.035	0.0073	
15 minute winter	121	10.001	122	2.6	0.643	0.104	0.0646	
15 minute winter	122	10.002	123	6.1	1.150	0.242	0.0753	
15 minute winter	123	9.002	124	17.1	1.088	0.329	0.1257	
15 minute winter	124	9.003	126	24.6	1.730	0.298	0.1692	
15 minute winter	125	11.000	126	1.5	0.865	0.049	0.0094	
15 minute winter	126	9.004	TANK	34.6	1.075	0.844	0.0994	
15 minute winter	TANK	1.006	127	11.3	0.580	0.276	0.4156	
120 minute winter	127	1.007	C101	9.3	1.293	0.369	0.1396	
15 minute winter	C101	1.008	OUT	10.5	0.169	0.094	0.5987	39.7

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	101	94	87.287	0.087	0.6	0.0172	0.0000	OK
120 minute winter	102	94	87.287	0.287	3.5	0.1162	0.0000	SURCHARGED
120 minute winter	103	94	87.287	0.487	5.6	0.3001	0.0000	SURCHARGED
120 minute winter	104	94	87.286	0.674	11.4	0.3021	0.0000	SURCHARGED
120 minute winter	105	94	87.286	0.916	3.9	0.3929	0.0000	SURCHARGED
120 minute winter	106	94	87.285	1.455	14.8	2.5717	0.0000	FLOOD RISK
120 minute winter	107	94	87.285	0.835	2.1	0.3098	0.0000	FLOOD RISK
120 minute winter	108	94	87.285	0.995	1.9	0.3075	0.0000	SURCHARGED
120 minute winter	109	94	87.285	1.164	6.1	0.5389	0.0000	FLOOD RISK
120 minute winter	110	94	87.285	1.508	19.6	2.8210	0.0000	FLOOD RISK
120 minute winter	111	94	87.287	0.417	1.5	0.1043	0.0000	SURCHARGED
120 minute winter	112	94	87.287	0.523	3.7	0.1172	0.0000	SURCHARGED
120 minute winter	113	94	87.287	0.537	1.6	0.1477	0.0000	SURCHARGED
120 minute winter	114	94	87.287	0.711	5.5	0.2325	0.0000	SURCHARGED
120 minute winter	115	94	87.286	1.186	1.7	0.3167	0.0000	SURCHARGED
120 minute winter	116	94	87.286	1.275	10.4	0.4870	0.0000	SURCHARGED
120 minute winter	117	94	87.283	1.545	27.7	2.7306	0.0000	SURCHARGED
15 minute winter	118	10	87.688	0.088	11.3	0.0379	0.0000	OK
15 minute winter	119	11	87.466	0.110	16.6	0.0339	0.0000	OK
15 minute winter	120	10	87.826	0.026	1.6	0.0053	0.0000	OK
15 minute winter	121	10	87.773	0.044	4.8	0.0108	0.0000	OK
15 minute winter	122	10	87.490	0.073	11.1	0.0241	0.0000	OK
120 minute winter	123	92	87.281	0.222	11.3	0.0846	0.0000	OK
120 minute winter	124	94	87.281	0.302	16.3	0.6571	0.0000	SURCHARGED
120 minute winter	125	94	87.280	0.430	1.3	0.1074	0.0000	SURCHARGED
120 minute winter	126	94	87.280	1.413	23.1	2.0144	0.0000	SURCHARGED
120 minute winter	TANK	94	87.279	1.612	48.6	75.1215	0.0000	SURCHARGED
120 minute winter	127	94	87.266	1.664	15.3	2.9412	0.0000	SURCHARGED
15 minute winter	C101	9	85.271	0.207	10.4	0.3651	0.0000	OK
15 minute summer	OUT	1	85.260	0.295	10.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	101	1.000	102	1.1	0.228	0.035	0.0343	
15 minute winter	102	1.001	104	9.4	1.096	0.472	0.2141	
15 minute winter	103	2.000	104	15.4	1.086	0.860	0.1581	
15 minute winter	104	1.002	106	30.9	1.323	0.594	0.7308	
15 minute summer	105	3.000	106	10.2	1.372	0.280	0.1978	
15 minute winter	106	1.003	110	36.3	0.912	0.885	0.3356	
15 minute winter	107	4.000	109	5.9	0.909	0.307	0.3639	
15 minute winter	108	5.000	109	5.5	0.828	0.312	0.1656	
15 minute winter	109	4.001	110	16.3	0.559	0.237	0.7874	
15 minute winter	110	1.004	117	45.4	1.142	1.108	0.2459	
15 minute winter	111	6.000	112	3.2	0.638	0.159	0.0421	
15 minute winter	112	6.001	114	5.8	0.834	0.290	0.1243	
15 minute winter	113	7.000	114	3.2	0.586	0.122	0.0575	
15 minute winter	114	6.002	116	14.5	1.648	0.417	0.1790	
15 minute winter	115	8.000	116	3.6	0.390	0.185	0.1273	
15 minute winter	116	6.003	117	23.6	1.390	0.831	0.1377	
15 minute winter	117	1.005	TANK	65.3	1.642	1.594	0.4501	
15 minute winter	118	9.000	119	11.2	0.906	0.629	0.2994	
15 minute winter	119	9.001	123	16.2	1.218	0.813	0.2047	
15 minute winter	120	10.000	121	1.6	0.506	0.063	0.0112	
15 minute winter	121	10.001	122	4.7	0.743	0.187	0.0999	
15 minute winter	122	10.002	123	10.9	1.333	0.434	0.1164	
15 minute winter	123	9.002	124	30.7	1.224	0.591	0.2011	
15 minute winter	124	9.003	126	44.3	1.981	0.537	0.2660	
15 minute winter	125	11.000	126	2.7	1.019	0.088	0.0144	
15 minute winter	126	9.004	TANK	62.3	1.568	1.520	0.0994	
120 minute summer	TANK	1.006	127	15.3	0.424	0.374	0.4156	
120 minute winter	127	1.007	C101	14.8	1.444	0.586	0.1983	
120 minute winter	C101	1.008	OUT	14.8	0.239	0.133	0.5917	164.4