

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	Scotland and Ireland	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.243	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Manhole Type	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.066	5.00	212.091	1 STANDARD	1350	245303.035	659860.155	1.000
2	0.066	5.00	209.273	1 STANDARD	1350	245224.957	659940.250	0.999
3	0.066	5.00	211.692	1 STANDARD	1350	245275.886	659834.482	1.000
4	0.066	5.00	208.913	1 STANDARD	1350	245197.808	659914.577	1.075
5	0.066	5.00	211.306	1 STANDARD	1350	245246.203	659801.691	1.000
6	0.066	5.00	208.472	1 STANDARD	1350	245165.342	659882.767	1.075
7	0.032	5.00	203.919	1 STANDARD	1350	245108.286	659850.957	1.000
8	0.031	5.00	202.235	1 STANDARD	1350	245061.258	659898.834	1.002
9	0.031	5.00	200.551	1 STANDARD	1350	245014.225	659946.706	1.075
10	0.467	5.00	201.352	1 STANDARD	1350	245032.596	659977.958	1.000
11			200.411	1 STANDARD	1350	245007.357	659954.069	1.141
12	0.037	5.00	207.780	1 STANDARD	1350	245201.025	659756.390	1.702
13	0.037	5.00	204.339	1 STANDARD	1350	245124.114	659834.126	1.002
14	0.018	5.00	206.575	1 STANDARD	1350	245169.821	659716.878	1.000
15	0.019	5.00	205.201	1 STANDARD	1350	245120.833	659766.295	1.001
16	0.049	5.00	206.831	1 STANDARD	1350	245181.653	659737.154	1.000
17	0.049	5.00	205.482	1 STANDARD	1350	245143.699	659775.567	1.001
18			205.424	1 STANDARD	1350	245136.657	659781.948	1.372
19	0.039	5.00	204.099	1 STANDARD	1350	245104.358	659814.562	1.076
20	0.039	5.00	202.000	1 STANDARD	1350	245046.879	659873.062	1.001
21	0.039	5.00	200.052	1 STANDARD	1350	244993.689	659927.225	0.933
22			200.051	1 STANDARD	1350	244986.715	659934.552	1.141
23	0.019	5.00	194.094	1 STANDARD	1350	244934.942	659886.514	1.195
24	0.019	5.00	192.612	1 STANDARD	1500	244910.429	659862.347	1.002
25	0.019	5.00	192.452	1 STANDARD	1500	244910.531	659786.218	1.221
26	0.063	5.00	198.096	1 STANDARD	1350	245078.473	659659.107	1.000
27	0.063	5.00	196.622	1 STANDARD	1350	245040.298	659706.378	1.001
28	0.063	5.00	196.618	1 STANDARD	1350	245037.176	659710.357	1.331
29	0.063	5.00	194.403	1 STANDARD	1350	244980.477	659780.483	1.300
30	0.063	5.00	194.377	1 STANDARD	1350	244976.277	659785.982	1.095
31	0.058	5.00	197.520	1 STANDARD	1350	245044.062	659631.212	1.000
32	0.058	5.00	196.052	1 STANDARD	1350	245006.721	659677.492	1.000
33	0.058	5.00	196.062	1 STANDARD	1350	245003.599	659681.471	1.114
34	0.058	5.00	193.863	1 STANDARD	1350	244946.900	659751.597	1.003
35	0.058	5.00	193.810	1 STANDARD	1350	244941.868	659757.730	1.000
36	0.008	5.00	193.063	1 STANDARD	1500	244913.489	659737.751	2.075
37	0.065	5.00	196.930	1 STANDARD	1350	245010.163	659603.277	1.000
38	0.065	5.00	195.466	1 STANDARD	1350	244971.988	659650.549	1.000
39	0.065	5.00	195.420	1 STANDARD	1350	244968.866	659654.527	1.001
40	0.065	5.00	193.644	1 STANDARD	1350	244924.630	659709.009	1.002
41			193.687	1 STANDARD	1500	244919.894	659704.486	2.869

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Manhole Type	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SuDS Basin			191.989	1 STANDARD	1500	244961.074	659615.816	1.660
Control - 41			191.989	1 STANDARD	1200	244967.983	659566.341	1.839
43_OUT			191.000	1 STANDARD		244963.633	659561.644	0.882

Links

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	1	2	111.854	0.600	211.091	208.274	2.817	39.7	450	5.58	46.1
1.001	2	4	37.366	0.600	208.274	207.914	0.360	103.8	450	5.89	45.2
2.000	3	4	111.854	0.600	210.692	207.977	2.715	41.2	450	5.59	46.1
1.002	4	6	45.452	0.600	207.838	207.397	0.441	103.1	450	6.27	44.1
3.000	5	6	114.506	0.600	210.306	207.472	2.834	40.4	450	5.60	46.1
1.003	6	7	65.324	0.600	207.397	202.923	4.474	14.6	225	6.58	43.3
1.004	7	8	67.111	0.600	202.919	201.233	1.686	39.8	450	6.93	42.4
1.005	8	9	67.111	0.600	201.233	199.547	1.686	39.8	450	7.28	41.6
1.006	9	11	10.070	0.600	199.476	199.270	0.206	48.9	300	7.35	41.4
4.000	10	11	34.752	0.600	200.352	199.345	1.007	34.5	450	5.17	47.4
1.007	11	22	28.408	0.600	199.270	198.910	0.360	78.9	450	7.56	41.0
5.000	12	13	109.354	0.600	206.078	203.337	2.741	39.9	450	5.57	46.1
5.001	13	19	27.803	0.600	203.337	203.097	0.240	115.8	150	6.06	44.7
6.000	14	15	69.583	0.600	205.575	204.200	1.375	50.6	450	5.41	46.6
6.001	15	18	22.258	0.600	204.200	204.052	0.148	150.4	450	5.63	46.0
7.000	16	17	54.000	0.600	205.831	204.481	1.350	40.0	450	5.28	47.0
7.001	17	18	9.503	0.600	204.482	204.127	0.355	26.8	150	5.36	46.8
6.002	18	19	45.901	0.600	204.052	203.023	1.029	44.6	450	5.88	45.2
5.002	19	20	82.013	0.600	203.024	200.999	2.025	40.5	450	6.49	43.5
5.003	20	21	75.913	0.600	200.999	199.200	1.799	42.2	450	6.89	42.5














Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	3.233	514.3	8.2	0.550	0.549	0.066	0.0
1.001	1.995	317.3	16.2	0.549	0.549	0.132	0.0
2.000	3.174	504.8	8.2	0.550	0.486	0.066	0.0
1.002	2.002	318.4	31.6	0.625	0.625	0.264	0.0
3.000	3.205	509.8	8.2	0.550	0.550	0.066	0.0
1.003	3.442	136.8	46.5	0.850	0.771	0.396	0.0
1.004	3.229	513.6	49.2	0.550	0.552	0.428	0.0
1.005	3.229	513.6	51.8	0.552	0.554	0.459	0.0
1.006	2.254	159.3	55.0	0.775	0.841	0.490	0.0
4.000	3.469	551.8	60.0	0.550	0.616	0.467	0.0
1.007	2.290	364.2	106.3	0.691	0.691	0.957	0.0
5.000	3.226	513.0	4.6	1.252	0.552	0.037	0.0
5.001	0.932	16.5	9.0	0.852	0.852	0.074	0.0
6.000	2.863	455.3	2.3	0.550	0.551	0.018	0.0
6.001	1.655	263.2	4.6	0.551	0.922	0.037	0.0
7.000	3.222	512.4	6.2	0.550	0.551	0.049	0.0
7.001	1.953	34.5	12.4	0.850	1.147	0.098	0.0
6.002	3.050	485.1	16.5	0.922	0.626	0.135	0.0
5.002	3.202	509.2	29.3	0.625	0.551	0.248	0.0
5.003	3.136	498.8	33.1	0.551	0.402	0.287	0.0

Links














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)
5.004	21	22	10.115	0.600	199.119	199.052	0.067	151.0	225	7.05	42.1
1.008	22	23	70.626	0.600	198.910	192.975	5.935	11.9	450	7.76	40.5
1.009	23	24	34.423	0.600	192.899	191.610	1.289	26.7	450	7.90	40.2
1.010	24	25	76.129	0.600	191.612	191.231	0.381	199.8	675	8.59	38.8
1.011	25	36	48.557	0.600	191.231	190.988	0.243	199.8	675	9.02	38.0
8.000	26	27	60.761	0.600	197.096	195.621	1.475	41.2	450	5.32	46.9
8.001	27	28	5.057	0.600	195.621	195.587	0.034	148.7	150	5.42	46.6
8.002	28	29	90.181	0.600	195.287	193.103	2.184	41.3	450	5.90	45.2
8.003	29	30	6.920	0.600	193.328	193.282	0.046	150.4	225	6.00	44.9
8.004	30	35	44.522	0.600	193.282	192.810	0.472	94.3	450	6.36	43.9
9.000	31	32	59.466	0.600	196.520	195.052	1.468	40.5	450	5.31	46.9
9.001	32	33	5.057	0.600	195.052	194.948	0.104	48.6	150	5.37	46.8
9.002	33	34	90.181	0.600	194.948	192.860	2.088	43.2	450	5.85	45.3
9.003	34	35	7.933	0.600	192.863	192.810	0.053	149.7	225	5.98	44.9
8.005	35	36	34.706	0.600	192.810	191.211	1.599	21.7	450	6.49	43.5
1.012	36	41	33.876	0.600	190.988	190.819	0.169	200.4	675	9.33	37.4
10.000	37	38	60.761	0.600	195.930	194.466	1.464	41.5	450	5.32	46.9
10.001	38	39	5.057	0.600	194.466	194.419	0.047	107.6	150	5.41	46.6
10.002	39	40	70.180	0.600	194.419	192.642	1.777	39.5	450	5.77	45.5
10.003	40	41	6.549	0.600	192.642	191.987	0.655	10.0	225	5.79	45.5
1.013	41	SuDS Basin	97.766	0.600	190.818	190.329	0.489	199.9	525	10.36	35.7
1.014	SuDS Basin	Control - 41	49.955	0.600	190.489	190.150	0.339	147.4	225	11.14	34.6
1.015	Control - 41	43_OUT	6.402	0.600	190.150	190.118	0.032	200.1	300	11.23	34.4

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
5.004	1.062	42.2	37.2	0.708	0.774	0.326	0.0
1.008	5.917	941.1	140.9	0.691	0.669	1.283	0.0
1.009	3.946	627.5	141.9	0.745	0.552	1.302	0.0
1.010	1.850	662.1	139.0	0.325	0.546	1.321	0.0
1.011	1.850	662.1	138.0	0.546	1.400	1.340	0.0
8.000	3.174	504.9	8.0	0.550	0.551	0.063	0.0
8.001	0.822	14.5	15.9	0.851	0.881	0.126	0.0
8.002	3.171	504.3	23.1	0.881	0.850	0.189	0.0
8.003	1.063	42.3	30.6	0.850	0.870	0.252	0.0
8.004	2.093	332.9	37.5	0.645	0.550	0.315	0.0
9.000	3.201	509.1	7.4	0.550	0.550	0.058	0.0
9.001	1.446	25.6	14.7	0.850	0.964	0.116	0.0
9.002	3.100	493.0	21.4	0.664	0.553	0.174	0.0
9.003	1.066	42.4	28.3	0.775	0.775	0.232	0.0
8.005	4.378	696.3	71.4	0.550	1.402	0.605	0.0
1.012	1.847	661.0	198.2	1.400	2.193	1.953	0.0
10.000	3.162	503.0	8.3	0.550	0.550	0.065	0.0
10.001	0.968	17.1	16.4	0.850	0.851	0.130	0.0
10.002	3.242	515.7	24.1	0.551	0.552	0.195	0.0
10.003	4.162	165.5	32.0	0.777	1.475	0.260	0.0
1.013	1.580	342.1	214.3	2.344	1.135	2.213	0.0
1.014	1.075	42.7	207.3	1.275	1.614	2.213	0.0
1.015	1.108	78.3	206.5	1.539	0.582	2.213	0.0

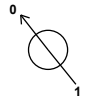
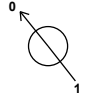

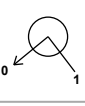

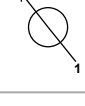
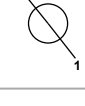

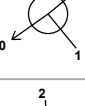
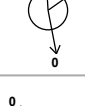
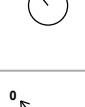
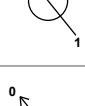
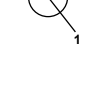
Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections
1	212.091	1.000	1350	 0
2	209.273	0.999	1350	 1 0
3	211.692	1.000	1350	 0
4	208.913	1.075	1350	 1 2 0
5	211.306	1.000	1350	 0
6	208.472	1.075	1350	 1 2 0
7	203.919	1.000	1350	 1 0
8	202.235	1.002	1350	 1 0
9	200.551	1.075	1350	 1 0
10	201.352	1.000	1350	 0
11	200.411	1.141	1350	 1 2 0
12	207.780	1.702	1350	 0
13	204.339	1.002	1350	 1 0

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections
14	206.575	1.000	1350	 0
15	205.201	1.001	1350	 1 0
16	206.831	1.000	1350	 0
17	205.482	1.001	1350	 1 0
18	205.424	1.372	1350	 1 2 0
19	204.099	1.076	1350	 1 2 0
20	202.000	1.001	1350	 1 0
21	200.052	0.933	1350	 1 0
22	200.051	1.141	1350	 1 2 0
23	194.094	1.195	1350	 1 0
24	192.612	1.002	1500	 1 0
25	192.452	1.221	1500	 1 0
26	198.096	1.000	1350	 0

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections
27	196.622	1.001	1350	 1 0
28	196.618	1.331	1350	 1 0
29	194.403	1.300	1350	 1 0
30	194.377	1.095	1350	 1 0
31	197.520	1.000	1350	 0 0
32	196.052	1.000	1350	 1 0
33	196.062	1.114	1350	 1 0
34	193.863	1.003	1350	 1 0
35	193.810	1.000	1350	 1 2 0
36	193.063	2.075	1500	 1 2 0
37	196.930	1.000	1350	 0 0
38	195.466	1.000	1350	 1 0
39	195.420	1.001	1350	 1 0

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Connections
40	193.644	1.002	1350	1
41	193.687	2.869	1500	1 2 0
SuDS Basin	191.989	1.660	1500	1 0
Control - 41	191.989	1.839	1200	1 0
43_OUT	191.000	0.882		1

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
FSR Region	Scotland and Ireland	Skip Steady State	x
M5-60 (mm)	17.000	Drain Down Time (mins)	240
Ratio-R	0.243	Additional Storage (m ³ /ha)	4.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	41	0	0
10	41	0	0
30	41	0	0
100	41	0	0
200	41	0	0

Node SuDS Basin Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	190.329
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	148

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	410.3	0.0	0.750	836.5	0.0	1.500	1319.7	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year +41% CC 15 minute summer	149.249	42.232
2 year +41% CC 15 minute winter	104.736	42.232
2 year +41% CC 30 minute summer	104.126	29.464
2 year +41% CC 30 minute winter	73.071	29.464
2 year +41% CC 60 minute summer	75.646	19.991
2 year +41% CC 60 minute winter	50.257	19.991
2 year +41% CC 120 minute summer	50.234	13.275
2 year +41% CC 120 minute winter	33.374	13.275
2 year +41% CC 180 minute summer	40.353	10.384
2 year +41% CC 180 minute winter	26.230	10.384
2 year +41% CC 240 minute summer	33.133	8.756
2 year +41% CC 240 minute winter	22.013	8.756
2 year +41% CC 360 minute summer	26.623	6.851
2 year +41% CC 360 minute winter	17.306	6.851
2 year +41% CC 480 minute summer	21.765	5.752
2 year +41% CC 480 minute winter	14.460	5.752
2 year +41% CC 600 minute summer	18.362	5.022
2 year +41% CC 600 minute winter	12.546	5.022
2 year +41% CC 720 minute summer	16.775	4.496
2 year +41% CC 720 minute winter	11.274	4.496
2 year +41% CC 960 minute summer	14.339	3.776
2 year +41% CC 960 minute winter	9.499	3.776
2 year +41% CC 1440 minute summer	10.969	2.940
2 year +41% CC 1440 minute winter	7.372	2.940
2 year +41% CC 2160 minute summer	8.280	2.288
2 year +41% CC 2160 minute winter	5.705	2.288
2 year +41% CC 2880 minute summer	7.150	1.916
2 year +41% CC 2880 minute winter	4.805	1.916
2 year +41% CC 4320 minute summer	5.681	1.485
2 year +41% CC 4320 minute winter	3.741	1.485
2 year +41% CC 5760 minute summer	4.842	1.239
2 year +41% CC 5760 minute winter	3.134	1.239
2 year +41% CC 7200 minute summer	4.226	1.078
2 year +41% CC 7200 minute winter	2.727	1.078
2 year +41% CC 8640 minute summer	3.774	0.963
2 year +41% CC 8640 minute winter	2.436	0.963
2 year +41% CC 10080 minute summer	3.430	0.875
2 year +41% CC 10080 minute winter	2.214	0.875
10 year +41% CC 15 minute summer	216.370	61.225
10 year +41% CC 15 minute winter	151.839	61.225
10 year +41% CC 30 minute summer	150.700	42.643
10 year +41% CC 30 minute winter	105.755	42.643
10 year +41% CC 60 minute summer	107.942	28.526
10 year +41% CC 60 minute winter	71.714	28.526
10 year +41% CC 120 minute summer	70.721	18.690
10 year +41% CC 120 minute winter	46.986	18.690
10 year +41% CC 180 minute summer	56.386	14.510
10 year +41% CC 180 minute winter	36.652	14.510
10 year +41% CC 240 minute summer	45.803	12.104
10 year +41% CC 240 minute winter	30.431	12.104
10 year +41% CC 360 minute summer	36.373	9.360
10 year +41% CC 360 minute winter	23.643	9.360

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
10 year +41% CC 480 minute summer	29.486	7.792
10 year +41% CC 480 minute winter	19.590	7.792
10 year +41% CC 600 minute summer	24.704	6.757
10 year +41% CC 600 minute winter	16.879	6.757
10 year +41% CC 720 minute summer	22.437	6.013
10 year +41% CC 720 minute winter	15.079	6.013
10 year +41% CC 960 minute summer	18.994	5.001
10 year +41% CC 960 minute winter	12.582	5.001
10 year +41% CC 1440 minute summer	14.388	3.856
10 year +41% CC 1440 minute winter	9.669	3.856
10 year +41% CC 2160 minute summer	10.749	2.971
10 year +41% CC 2160 minute winter	7.407	2.971
10 year +41% CC 2880 minute summer	9.208	2.468
10 year +41% CC 2880 minute winter	6.189	2.468
10 year +41% CC 4320 minute summer	7.266	1.900
10 year +41% CC 4320 minute winter	4.785	1.900
10 year +41% CC 5760 minute summer	6.162	1.577
10 year +41% CC 5760 minute winter	3.988	1.577
10 year +41% CC 7200 minute summer	5.353	1.366
10 year +41% CC 7200 minute winter	3.455	1.366
10 year +41% CC 8640 minute summer	4.758	1.214
10 year +41% CC 8640 minute winter	3.071	1.214
10 year +41% CC 10080 minute summer	4.308	1.099
10 year +41% CC 10080 minute winter	2.780	1.099
30 year +41% CC 15 minute summer	274.156	77.577
30 year +41% CC 15 minute winter	192.390	77.577
30 year +41% CC 30 minute summer	192.203	54.387
30 year +41% CC 30 minute winter	134.879	54.387
30 year +41% CC 60 minute summer	136.972	36.198
30 year +41% CC 60 minute winter	91.001	36.198
30 year +41% CC 120 minute summer	88.970	23.512
30 year +41% CC 120 minute winter	59.110	23.512
30 year +41% CC 180 minute summer	70.491	18.140
30 year +41% CC 180 minute winter	45.821	18.140
30 year +41% CC 240 minute summer	56.987	15.060
30 year +41% CC 240 minute winter	37.861	15.060
30 year +41% CC 360 minute summer	44.932	11.562
30 year +41% CC 360 minute winter	29.207	11.562
30 year +41% CC 480 minute summer	36.232	9.575
30 year +41% CC 480 minute winter	24.072	9.575
30 year +41% CC 600 minute summer	30.229	8.268
30 year +41% CC 600 minute winter	20.655	8.268
30 year +41% CC 720 minute summer	27.361	7.333
30 year +41% CC 720 minute winter	18.388	7.333
30 year +41% CC 960 minute summer	23.038	6.066
30 year +41% CC 960 minute winter	15.261	6.066
30 year +41% CC 1440 minute summer	17.318	4.641
30 year +41% CC 1440 minute winter	11.639	4.641
30 year +41% CC 2160 minute summer	12.832	3.546
30 year +41% CC 2160 minute winter	8.842	3.546
30 year +41% CC 2880 minute summer	10.924	2.928
30 year +41% CC 2880 minute winter	7.342	2.928

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year +41% CC 4320 minute summer	8.541	2.233
30 year +41% CC 4320 minute winter	5.625	2.233
30 year +41% CC 5760 minute summer	7.196	1.842
30 year +41% CC 5760 minute winter	4.657	1.842
30 year +41% CC 7200 minute summer	6.219	1.587
30 year +41% CC 7200 minute winter	4.014	1.587
30 year +41% CC 8640 minute summer	5.506	1.405
30 year +41% CC 8640 minute winter	3.553	1.405
30 year +41% CC 10080 minute summer	4.967	1.267
30 year +41% CC 10080 minute winter	3.206	1.267
100 year +41% CC 15 minute summer	355.350	100.552
100 year +41% CC 15 minute winter	249.369	100.552
100 year +41% CC 30 minute summer	250.920	71.002
100 year +41% CC 30 minute winter	176.085	71.002
100 year +41% CC 60 minute summer	177.827	46.994
100 year +41% CC 60 minute winter	118.144	46.994
100 year +41% CC 120 minute summer	114.419	30.238
100 year +41% CC 120 minute winter	76.017	30.238
100 year +41% CC 180 minute summer	90.033	23.168
100 year +41% CC 180 minute winter	58.524	23.168
100 year +41% CC 240 minute summer	72.403	19.134
100 year +41% CC 240 minute winter	48.103	19.134
100 year +41% CC 360 minute summer	56.640	14.576
100 year +41% CC 360 minute winter	36.818	14.576
100 year +41% CC 480 minute summer	45.410	12.001
100 year +41% CC 480 minute winter	30.169	12.001
100 year +41% CC 600 minute summer	37.714	10.316
100 year +41% CC 600 minute winter	25.768	10.316
100 year +41% CC 720 minute summer	34.007	9.114
100 year +41% CC 720 minute winter	22.855	9.114
100 year +41% CC 960 minute summer	28.466	7.496
100 year +41% CC 960 minute winter	18.856	7.496
100 year +41% CC 1440 minute summer	21.219	5.687
100 year +41% CC 1440 minute winter	14.261	5.687
100 year +41% CC 2160 minute summer	15.580	4.306
100 year +41% CC 2160 minute winter	10.735	4.306
100 year +41% CC 2880 minute summer	13.174	3.531
100 year +41% CC 2880 minute winter	8.854	3.531
100 year +41% CC 4320 minute summer	10.197	2.666
100 year +41% CC 4320 minute winter	6.715	2.666
100 year +41% CC 5760 minute summer	8.529	2.183
100 year +41% CC 5760 minute winter	5.520	2.183
100 year +41% CC 7200 minute summer	7.330	1.870
100 year +41% CC 7200 minute winter	4.731	1.870
100 year +41% CC 8640 minute summer	6.460	1.648
100 year +41% CC 8640 minute winter	4.169	1.648
100 year +41% CC 10080 minute summer	5.807	1.481
100 year +41% CC 10080 minute winter	3.748	1.481
200 year +41% CC 15 minute summer	412.587	116.748
200 year +41% CC 15 minute winter	289.535	116.748
200 year +41% CC 30 minute summer	292.544	82.780
200 year +41% CC 30 minute winter	205.294	82.780

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
200 year +41% CC 60 minute summer	206.663	54.615
200 year +41% CC 60 minute winter	137.302	54.615
200 year +41% CC 120 minute summer	132.251	34.950
200 year +41% CC 120 minute winter	87.864	34.950
200 year +41% CC 180 minute summer	103.652	26.673
200 year +41% CC 180 minute winter	67.377	26.673
200 year +41% CC 240 minute summer	83.103	21.962
200 year +41% CC 240 minute winter	55.212	21.962
200 year +41% CC 360 minute summer	64.718	16.654
200 year +41% CC 360 minute winter	42.069	16.654
200 year +41% CC 480 minute summer	51.714	13.666
200 year +41% CC 480 minute winter	34.357	13.666
200 year +41% CC 600 minute summer	42.836	11.717
200 year +41% CC 600 minute winter	29.268	11.717
200 year +41% CC 720 minute summer	38.542	10.330
200 year +41% CC 720 minute winter	25.902	10.330
200 year +41% CC 960 minute summer	32.153	8.467
200 year +41% CC 960 minute winter	21.299	8.467
200 year +41% CC 1440 minute summer	23.852	6.393
200 year +41% CC 1440 minute winter	16.030	6.393
200 year +41% CC 2160 minute summer	17.422	4.815
200 year +41% CC 2160 minute winter	12.005	4.815
200 year +41% CC 2880 minute summer	14.673	3.933
200 year +41% CC 2880 minute winter	9.861	3.933
200 year +41% CC 4320 minute summer	11.292	2.952
200 year +41% CC 4320 minute winter	7.437	2.952
200 year +41% CC 5760 minute summer	9.406	2.408
200 year +41% CC 5760 minute winter	6.088	2.408
200 year +41% CC 7200 minute summer	8.058	2.056
200 year +41% CC 7200 minute winter	5.200	2.056
200 year +41% CC 8640 minute summer	7.083	1.807
200 year +41% CC 8640 minute winter	4.571	1.807
200 year +41% CC 10080 minute summer	6.353	1.621
200 year +41% CC 10080 minute winter	4.100	1.621

Results for 2 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	11	211.138	0.047	12.7	0.0803	0.0000	OK
15 minute winter	2	11	208.358	0.084	24.8	0.1430	0.0000	OK
15 minute winter	3	11	210.740	0.047	12.7	0.0805	0.0000	OK
15 minute winter	4	11	207.958	0.119	47.3	0.2004	0.0000	OK
15 minute winter	5	11	210.353	0.047	12.7	0.0800	0.0000	OK
15 minute winter	6	11	207.514	0.117	71.1	0.1956	0.0000	OK
15 minute winter	7	11	203.036	0.117	76.0	0.1826	0.0000	OK
15 minute winter	8	12	201.354	0.121	81.4	0.1882	0.0000	OK
15 minute winter	9	12	199.670	0.194	85.6	0.3007	0.0000	OK
15 minute winter	10	10	200.474	0.122	89.7	0.4011	0.0000	OK
15 minute winter	11	11	199.507	0.237	166.3	0.3395	0.0000	OK
15 minute winter	12	11	206.114	0.036	7.1	0.0548	0.0000	OK
15 minute winter	13	12	203.434	0.097	13.8	0.1529	0.0000	OK
15 minute winter	14	11	205.603	0.028	3.5	0.0414	0.0000	OK
15 minute winter	15	11	204.249	0.049	7.0	0.0738	0.0000	OK
15 minute winter	16	10	205.873	0.042	9.4	0.0677	0.0000	OK
15 minute winter	17	11	204.567	0.086	18.6	0.1396	0.0000	OK
15 minute winter	18	11	204.120	0.068	24.9	0.0977	0.0000	OK
15 minute winter	19	11	203.111	0.088	43.0	0.1381	0.0000	OK
15 minute winter	20	12	201.093	0.094	49.2	0.1486	0.0000	OK
15 minute winter	21	13	199.386	0.267	54.6	0.4268	0.0000	SURCHARGED
15 minute winter	22	12	199.058	0.148	212.6	0.2117	0.0000	OK
15 minute winter	23	12	193.079	0.180	215.6	0.2690	0.0000	OK
15 minute winter	24	12	191.887	0.277	219.0	0.5111	0.0000	OK
15 minute winter	25	12	191.512	0.281	223.9	0.5147	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	12.2	0.879	0.024	1.6402	
15 minute winter	2	1.001	4	23.6	1.175	0.074	0.7497	
15 minute winter	3	2.000	4	11.9	1.346	0.024	0.9875	
15 minute winter	4	1.002	6	47.3	1.429	0.149	1.5048	
15 minute winter	5	3.000	6	11.9	1.354	0.023	1.0029	
15 minute winter	6	1.003	7	70.2	3.438	0.513	1.3342	
15 minute winter	7	1.004	8	75.8	2.262	0.148	2.2491	
15 minute winter	8	1.005	9	80.9	2.337	0.158	2.3323	
15 minute winter	9	1.006	11	86.8	1.639	0.545	0.5364	
15 minute winter	10	4.000	11	89.4	2.302	0.162	1.4666	
15 minute winter	11	1.007	22	166.1	2.569	0.456	1.8447	
15 minute winter	12	5.000	13	6.8	0.553	0.013	1.6695	
15 minute winter	13	5.001	19	11.7	0.997	0.711	0.3266	
15 minute winter	14	6.000	15	3.4	0.534	0.007	0.4595	
15 minute winter	15	6.001	18	6.7	0.554	0.025	0.2712	
15 minute winter	16	7.000	17	9.2	0.693	0.018	0.7616	
15 minute winter	17	7.001	18	18.2	1.873	0.527	0.0923	
15 minute winter	18	6.002	19	24.8	1.355	0.051	0.8438	
15 minute winter	19	5.002	20	42.3	1.889	0.083	1.8482	
15 minute winter	20	5.003	21	48.7	1.693	0.098	3.2043	
15 minute winter	21	5.004	22	51.1	1.298	1.211	0.3803	
15 minute winter	22	1.008	23	212.7	4.797	0.226	3.1317	
15 minute winter	23	1.009	24	216.1	2.673	0.344	2.7823	
15 minute winter	24	1.010	25	221.0	1.593	0.334	10.5615	
15 minute winter	25	1.011	36	221.5	1.217	0.335	8.9237	

Results for 2 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	26	10	197.143	0.047	12.1	0.0793	0.0000	OK
15 minute winter	27	12	195.820	0.199	23.9	0.3355	0.0000	SURCHARGED
15 minute winter	28	11	195.361	0.074	30.9	0.1201	0.0000	OK
15 minute winter	29	12	193.501	0.398	41.9	0.6472	0.0000	OK
15 minute winter	30	12	193.402	0.120	49.0	0.1989	0.0000	OK
15 minute winter	31	10	196.565	0.045	11.1	0.0750	0.0000	OK
15 minute winter	32	11	195.175	0.123	22.0	0.2043	0.0000	OK
15 minute winter	33	11	195.024	0.076	31.4	0.1245	0.0000	OK
15 minute winter	34	12	193.036	0.176	41.8	0.2924	0.0000	OK
15 minute winter	35	11	192.923	0.113	97.8	0.1873	0.0000	OK
15 minute winter	36	13	191.400	0.412	318.7	0.7343	0.0000	OK
15 minute winter	37	10	195.978	0.048	12.5	0.0811	0.0000	OK
15 minute winter	38	12	194.639	0.173	24.7	0.2930	0.0000	SURCHARGED
15 minute winter	39	11	194.495	0.076	32.6	0.1278	0.0000	OK
15 minute winter	40	11	192.733	0.091	44.3	0.1544	0.0000	OK
15 minute winter	41	13	191.344	0.526	352.3	0.9301	0.0000	SURCHARGED
240 minute winter	SuDS Basin	168	190.882	0.553	112.8	314.9026	0.0000	SURCHARGED
240 minute winter	Control - 41	168	190.353	0.203	52.5	0.2300	0.0000	OK
240 minute winter	43_OUT	168	190.295	0.177	52.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	26	8.000	27	11.8	0.465	0.023	2.2983	
15 minute winter	27	8.001	28	20.1	1.148	1.385	0.0854	
15 minute winter	28	8.002	29	30.5	0.511	0.060	7.4520	
15 minute winter	29	8.003	30	39.5	1.449	0.935	0.1878	
15 minute winter	30	8.004	35	49.2	1.523	0.148	1.4395	
15 minute winter	31	9.000	32	10.9	0.581	0.021	1.2821	
15 minute winter	32	9.001	33	20.9	1.691	0.819	0.0616	
15 minute winter	33	9.002	34	31.3	0.903	0.063	3.3531	
15 minute winter	34	9.003	35	39.9	1.504	0.941	0.2085	
15 minute winter	35	8.005	36	98.1	2.776	0.141	1.6056	
15 minute winter	36	1.012	41	314.6	1.299	0.476	8.9111	
15 minute winter	37	10.000	38	12.2	0.513	0.024	1.9540	
15 minute winter	38	10.001	39	21.2	1.492	1.238	0.0670	
15 minute winter	39	10.002	40	32.5	1.611	0.063	1.4204	
15 minute winter	40	10.003	41	44.3	3.219	0.268	0.0902	
15 minute winter	41	1.013	SuDS Basin	366.9	2.563	1.073	13.5800	
240 minute winter	SuDS Basin	1.014	Control - 41	52.5	1.321	1.228	1.9371	
240 minute winter	Control - 41	1.015	43_OUT	52.5	1.115	0.670	0.3012	560.2

Results for 10 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	10	211.148	0.057	18.4	0.0959	0.0000	OK
15 minute winter	2	11	208.377	0.103	36.1	0.1741	0.0000	OK
15 minute winter	3	11	210.749	0.057	18.4	0.0966	0.0000	OK
15 minute winter	4	11	207.984	0.146	69.5	0.2449	0.0000	OK
15 minute winter	5	11	210.363	0.057	18.4	0.0961	0.0000	OK
15 minute winter	6	11	207.546	0.149	104.6	0.2504	0.0000	OK
15 minute winter	7	11	203.062	0.143	110.5	0.2235	0.0000	OK
15 minute winter	8	12	201.377	0.144	117.7	0.2239	0.0000	OK
15 minute winter	9	12	199.749	0.273	124.0	0.4230	0.0000	OK
15 minute winter	10	10	200.498	0.146	130.1	0.4819	0.0000	OK
15 minute winter	11	11	199.572	0.302	242.3	0.4324	0.0000	OK
15 minute winter	12	11	206.121	0.043	10.3	0.0652	0.0000	OK
15 minute winter	13	12	203.466	0.129	20.1	0.2035	0.0000	OK
15 minute winter	14	11	205.608	0.032	5.0	0.0488	0.0000	OK
15 minute winter	15	11	204.259	0.059	10.1	0.0882	0.0000	OK
15 minute winter	16	10	205.881	0.050	13.7	0.0809	0.0000	OK
15 minute winter	17	11	204.593	0.112	27.1	0.1822	0.0000	OK
15 minute winter	18	11	204.134	0.082	36.0	0.1171	0.0000	OK
15 minute winter	19	11	203.128	0.105	61.7	0.1658	0.0000	OK
15 minute winter	20	12	201.111	0.112	71.1	0.1782	0.0000	OK
15 minute winter	21	13	199.531	0.412	79.0	0.6584	0.0000	SURCHARGED
15 minute winter	22	11	199.090	0.179	303.2	0.2568	0.0000	OK
15 minute winter	23	11	193.125	0.226	306.1	0.3372	0.0000	OK
15 minute winter	24	12	191.952	0.342	311.1	0.6299	0.0000	OK
15 minute winter	25	14	191.835	0.604	325.0	1.1054	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	17.7	0.969	0.034	2.1601	
15 minute winter	2	1.001	4	34.7	1.312	0.109	0.9893	
15 minute winter	3	2.000	4	17.4	1.511	0.035	1.2916	
15 minute winter	4	1.002	6	69.6	1.540	0.219	2.0559	
15 minute winter	5	3.000	6	17.7	1.412	0.035	1.6380	
15 minute winter	6	1.003	7	102.1	3.729	0.746	1.7886	
15 minute winter	7	1.004	8	109.6	2.536	0.213	2.9001	
15 minute winter	8	1.005	9	117.3	2.297	0.228	3.7842	
15 minute winter	9	1.006	11	125.5	1.852	0.788	0.6908	
15 minute winter	10	4.000	11	129.4	2.361	0.235	2.1409	
15 minute winter	11	1.007	22	241.9	2.803	0.664	2.4448	
15 minute winter	12	5.000	13	9.9	0.590	0.019	2.4361	
15 minute winter	13	5.001	19	16.2	1.047	0.983	0.4302	
15 minute winter	14	6.000	15	4.8	0.591	0.011	0.5950	
15 minute winter	15	6.001	18	9.8	0.623	0.037	0.3526	
15 minute winter	16	7.000	17	13.4	0.730	0.026	1.0801	
15 minute winter	17	7.001	18	26.2	2.006	0.760	0.1242	
15 minute winter	18	6.002	19	35.9	1.511	0.074	1.0961	
15 minute winter	19	5.002	20	60.9	2.092	0.120	2.3879	
15 minute winter	20	5.003	21	70.0	1.700	0.140	5.8432	
15 minute winter	21	5.004	22	70.0	1.760	1.658	0.3959	
15 minute winter	22	1.008	23	302.0	5.263	0.321	4.0535	
15 minute winter	23	1.009	24	307.0	2.962	0.489	3.5889	
15 minute winter	24	1.010	25	320.9	1.694	0.485	18.3166	
30 minute summer	25	1.011	36	286.0	1.258	0.432	14.3245	

Results for 10 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	26	10	197.152	0.056	17.6	0.0947	0.0000	OK
15 minute winter	27	12	195.920	0.299	34.8	0.5039	0.0000	SURCHARGED
15 minute winter	28	11	195.374	0.087	42.9	0.1411	0.0000	OK
15 minute winter	29	12	193.578	0.474	58.9	0.7710	0.0000	SURCHARGED
15 minute winter	30	11	193.425	0.143	68.8	0.2384	0.0000	OK
15 minute winter	31	10	196.574	0.054	16.2	0.0897	0.0000	OK
15 minute winter	32	12	195.253	0.200	32.1	0.3334	0.0000	SURCHARGED
15 minute winter	33	11	195.035	0.087	41.6	0.1426	0.0000	OK
15 minute winter	34	12	193.088	0.228	56.6	0.3798	0.0000	SURCHARGED
15 minute winter	35	11	192.943	0.133	136.1	0.2204	0.0000	OK
15 minute winter	36	14	191.782	0.794	414.8	1.4158	0.0000	SURCHARGED
15 minute winter	37	10	195.987	0.057	18.1	0.0967	0.0000	OK
15 minute winter	38	12	194.746	0.280	35.8	0.4728	0.0000	SURCHARGED
15 minute winter	39	11	194.507	0.088	44.2	0.1481	0.0000	OK
15 minute winter	40	11	192.754	0.112	60.9	0.1887	0.0000	OK
15 minute winter	41	14	191.692	0.874	443.2	1.5444	0.0000	SURCHARGED
240 minute winter	SuDS Basin	176	191.077	0.748	156.4	467.4156	0.0000	SURCHARGED
240 minute winter	Control - 41	176	190.371	0.221	59.3	0.2495	0.0000	OK
240 minute winter	43_OUT	176	190.308	0.190	59.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	26	8.000	27	17.2	0.479	0.034	3.7113	
15 minute winter	27	8.001	28	27.6	1.567	1.900	0.0880	
15 minute winter	28	8.002	29	42.4	0.550	0.084	8.1115	
15 minute winter	29	8.003	30	55.1	1.575	1.302	0.2300	
15 minute winter	30	8.004	35	69.0	1.681	0.207	1.8339	
15 minute winter	31	9.000	32	15.9	0.609	0.031	2.3120	
15 minute winter	32	9.001	33	26.8	1.708	1.051	0.0713	
15 minute winter	33	9.002	34	41.4	0.956	0.084	4.5877	
15 minute winter	34	9.003	35	52.4	1.597	1.236	0.2537	
15 minute winter	35	8.005	36	135.4	2.890	0.194	3.4192	
15 minute winter	36	1.012	41	391.1	1.184	0.592	12.0930	
15 minute winter	37	10.000	38	17.7	0.533	0.035	3.4599	
15 minute winter	38	10.001	39	28.2	1.787	1.647	0.0715	
15 minute winter	39	10.002	40	43.9	1.697	0.085	1.8325	
15 minute winter	40	10.003	41	60.7	3.444	0.367	0.1156	
15 minute winter	41	1.013	SuDS Basin	436.0	2.484	1.275	18.6427	
240 minute winter	SuDS Basin	1.014	Control - 41	59.3	1.491	1.388	1.9814	
240 minute winter	Control - 41	1.015	43_OUT	59.3	1.156	0.757	0.3279	806.0

Results for 30 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	1	10	211.154	0.063	23.3	0.1075	0.0000	OK
15 minute winter	2	11	208.391	0.117	45.8	0.1976	0.0000	OK
15 minute winter	3	11	210.756	0.064	23.3	0.1084	0.0000	OK
15 minute winter	4	11	208.004	0.166	88.4	0.2782	0.0000	OK
15 minute winter	5	10	210.370	0.064	23.3	0.1079	0.0000	OK
15 minute winter	6	11	207.579	0.182	133.0	0.3054	0.0000	OK
15 minute winter	7	11	203.082	0.163	139.7	0.2540	0.0000	OK
15 minute winter	8	12	201.396	0.163	149.7	0.2533	0.0000	OK
15 minute winter	9	12	199.933	0.457	157.5	0.7076	0.0000	SURCHARGED
15 minute winter	10	10	200.518	0.166	164.8	0.5473	0.0000	OK
15 minute winter	11	11	199.619	0.349	295.3	0.4998	0.0000	OK
15 minute winter	12	11	206.126	0.048	13.1	0.0731	0.0000	OK
15 minute winter	13	13	203.508	0.171	25.6	0.2703	0.0000	SURCHARGED
15 minute winter	14	10	205.611	0.036	6.4	0.0547	0.0000	OK
15 minute winter	15	11	204.266	0.066	12.9	0.0991	0.0000	OK
15 minute winter	16	10	205.887	0.056	17.3	0.0904	0.0000	OK
15 minute winter	17	11	204.624	0.143	34.3	0.2331	0.0000	OK
15 minute winter	18	11	204.143	0.091	44.6	0.1299	0.0000	OK
15 minute winter	19	11	203.139	0.116	74.4	0.1830	0.0000	OK
15 minute winter	20	11	201.123	0.124	87.3	0.1974	0.0000	OK
15 minute winter	21	13	199.683	0.564	98.7	0.9020	0.0000	SURCHARGED
15 minute winter	22	12	199.113	0.203	372.0	0.2904	0.0000	OK
15 minute winter	23	13	193.194	0.295	378.4	0.4415	0.0000	OK
15 minute winter	24	14	192.520	0.910	384.5	1.6767	0.0000	FLOOD RISK
15 minute winter	25	14	192.413	1.182	394.2	2.1620	0.0000	FLOOD RISK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	1	1.000	2	22.5	1.029	0.044	2.5726	
15 minute winter	2	1.001	4	44.3	1.403	0.140	1.1803	
15 minute winter	3	2.000	4	22.2	1.625	0.044	1.5294	
15 minute winter	4	1.002	6	88.7	1.582	0.279	2.5707	
15 minute winter	5	3.000	6	22.5	1.442	0.044	2.4289	
15 minute winter	6	1.003	7	129.1	3.859	0.944	2.1900	
15 minute winter	7	1.004	8	139.4	2.702	0.271	3.4627	
15 minute winter	8	1.005	9	148.4	2.329	0.289	6.5960	
15 minute winter	9	1.006	11	156.6	2.225	0.983	0.7091	
15 minute winter	10	4.000	11	164.1	2.427	0.297	2.6433	
15 minute winter	11	1.007	22	294.4	2.902	0.808	2.8456	
15 minute winter	12	5.000	13	12.6	0.610	0.025	3.4189	
15 minute winter	13	5.001	19	17.7	1.051	1.077	0.4593	
15 minute winter	14	6.000	15	6.2	0.638	0.014	0.7055	
15 minute winter	15	6.001	18	12.5	0.679	0.047	0.4127	
15 minute winter	16	7.000	17	17.0	0.750	0.033	1.4675	
15 minute winter	17	7.001	18	32.1	2.028	0.929	0.1505	
15 minute winter	18	6.002	19	44.4	1.619	0.092	1.2648	
15 minute winter	19	5.002	20	74.4	2.202	0.146	2.7708	
15 minute winter	20	5.003	21	85.7	1.705	0.172	7.3553	
15 minute winter	21	5.004	22	87.6	2.203	2.076	0.3982	
15 minute winter	22	1.008	23	373.2	5.547	0.397	4.9853	
15 minute winter	23	1.009	24	379.3	3.082	0.604	4.6247	
15 minute winter	24	1.010	25	387.9	1.728	0.586	27.1764	
15 minute winter	25	1.011	36	355.1	1.209	0.536	17.3338	

Results for 30 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	26	10	197.159	0.063	22.2	0.1060	0.0000	OK
15 minute winter	27	12	196.018	0.397	44.0	0.6688	0.0000	SURCHARGED
15 minute winter	28	11	195.384	0.097	53.1	0.1568	0.0000	OK
15 minute winter	29	12	193.670	0.566	73.4	0.9205	0.0000	SURCHARGED
15 minute winter	30	11	193.445	0.163	87.3	0.2715	0.0000	OK
15 minute winter	31	10	196.580	0.060	20.5	0.1004	0.0000	OK
15 minute winter	32	12	195.340	0.288	40.6	0.4794	0.0000	SURCHARGED
15 minute winter	33	11	195.043	0.095	50.3	0.1564	0.0000	OK
15 minute winter	34	12	193.159	0.299	69.2	0.4973	0.0000	SURCHARGED
15 minute winter	35	12	192.957	0.147	165.2	0.2447	0.0000	OK
15 minute winter	36	14	192.330	1.342	513.9	2.3924	0.0000	SURCHARGED
15 minute winter	37	10	195.994	0.064	22.9	0.1083	0.0000	OK
15 minute winter	38	12	194.851	0.385	45.4	0.6516	0.0000	SURCHARGED
15 minute winter	39	11	194.516	0.097	54.1	0.1636	0.0000	OK
15 minute winter	40	11	192.771	0.129	75.4	0.2179	0.0000	OK
15 minute winter	41	14	192.208	1.390	554.2	2.4553	0.0000	SURCHARGED
240 minute winter	SuDS Basin	180	191.234	0.905	193.1	606.9218	0.0000	SURCHARGED
240 minute winter	Control - 41	180	190.384	0.233	64.4	0.2641	0.0000	OK
240 minute winter	43_OUT	180	190.316	0.198	64.4	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	26	8.000	27	21.8	0.482	0.043	4.8637	
15 minute winter	27	8.001	28	33.9	1.926	2.335	0.0881	
15 minute winter	28	8.002	29	52.5	0.576	0.104	8.2693	
15 minute winter	29	8.003	30	69.4	1.824	1.642	0.2445	
15 minute winter	30	8.004	35	87.4	1.806	0.263	2.1563	
15 minute winter	31	9.000	32	20.1	0.618	0.040	3.5226	
15 minute winter	32	9.001	33	32.0	1.979	1.253	0.0744	
15 minute winter	33	9.002	34	49.9	0.975	0.101	6.1274	
15 minute winter	34	9.003	35	61.7	1.683	1.456	0.2668	
15 minute winter	35	8.005	36	165.6	2.766	0.238	3.5302	
15 minute winter	36	1.012	41	489.7	1.372	0.741	12.0930	
15 minute winter	37	10.000	38	22.5	0.541	0.045	4.7620	
15 minute winter	38	10.001	39	34.1	2.101	1.995	0.0749	
15 minute winter	39	10.002	40	53.8	1.905	0.104	2.1891	
15 minute winter	40	10.003	41	75.0	3.589	0.453	0.1796	
15 minute winter	41	1.013	SuDS Basin	534.8	2.841	1.563	20.6691	
240 minute winter	SuDS Basin	1.014	Control - 41	64.4	1.621	1.508	1.9868	
240 minute winter	Control - 41	1.015	43_OUT	64.4	1.188	0.823	0.3463	1021.5

Results for 100 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	211.163	0.072	30.2	0.1221	0.0000	OK
15 minute winter	2	11	208.408	0.134	59.5	0.2275	0.0000	OK
15 minute winter	3	11	210.765	0.073	30.2	0.1233	0.0000	OK
15 minute winter	4	11	208.030	0.192	115.1	0.3223	0.0000	OK
15 minute winter	5	10	210.378	0.072	30.2	0.1225	0.0000	OK
15 minute winter	6	13	207.748	0.351	173.0	0.5890	0.0000	SURCHARGED
15 minute winter	7	10	203.094	0.175	158.5	0.2732	0.0000	OK
30 minute summer	8	18	201.408	0.175	170.8	0.2722	0.0000	OK
15 minute winter	9	11	200.125	0.649	182.6	1.0037	0.0000	SURCHARGED
15 minute winter	10	10	200.545	0.193	213.6	0.6371	0.0000	OK
15 minute winter	11	11	199.746	0.475	369.2	0.6804	0.0000	SURCHARGED
15 minute winter	12	11	206.132	0.054	16.9	0.0825	0.0000	OK
15 minute winter	13	13	203.580	0.243	33.1	0.3840	0.0000	SURCHARGED
15 minute winter	14	10	205.616	0.041	8.2	0.0617	0.0000	OK
15 minute winter	15	11	204.277	0.077	16.7	0.1160	0.0000	OK
15 minute winter	16	10	205.894	0.063	22.4	0.1023	0.0000	OK
15 minute winter	17	12	204.754	0.273	44.4	0.4439	0.0000	SURCHARGED
15 minute winter	18	12	204.149	0.096	50.1	0.1380	0.0000	OK
15 minute winter	19	11	203.147	0.124	85.1	0.1948	0.0000	OK
15 minute winter	20	11	201.134	0.135	101.2	0.2136	0.0000	OK
15 minute winter	21	13	199.878	0.759	116.8	1.2143	0.0000	FLOOD RISK
15 minute summer	22	11	199.132	0.222	444.8	0.3178	0.0000	OK
15 minute winter	23	12	193.534	0.635	468.4	0.9495	0.0000	SURCHARGED
15 minute winter	24	11	192.612	1.002	463.8	1.8467	15.2894	FLOOD
15 minute winter	25	11	192.452	1.221	445.5	2.2332	28.1791	FLOOD

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	1	1.000	2	29.3	1.098	0.057	3.1192	
15 minute winter	2	1.001	4	57.8	1.508	0.182	1.4319	
15 minute winter	3	2.000	4	28.9	1.756	0.057	1.8417	
15 minute winter	4	1.002	6	115.6	1.609	0.363	4.1650	
15 minute winter	5	3.000	6	29.3	1.499	0.057	6.5683	
15 minute winter	6	1.003	7	143.9	3.840	1.052	2.5647	
15 minute winter	7	1.004	8	159.1	2.796	0.310	3.8200	
30 minute summer	8	1.005	9	169.6	2.344	0.330	7.2298	
30 minute winter	9	1.006	11	177.4	2.519	1.113	0.7091	
15 minute winter	10	4.000	11	212.6	2.402	0.385	3.6581	
30 minute summer	11	1.007	22	358.7	2.991	0.985	3.2974	
15 minute winter	12	5.000	13	16.3	0.630	0.032	5.2486	
15 minute winter	13	5.001	19	19.7	1.126	1.196	0.4679	
15 minute winter	14	6.000	15	8.0	0.671	0.017	0.8725	
15 minute winter	15	6.001	18	16.3	0.766	0.062	0.4741	
15 minute winter	16	7.000	17	22.1	0.768	0.043	3.0336	
15 minute winter	17	7.001	18	34.7	2.010	1.006	0.1673	
15 minute winter	18	6.002	19	50.3	1.682	0.104	1.3782	
15 minute winter	19	5.002	20	84.4	2.269	0.166	3.0630	
15 minute winter	20	5.003	21	100.0	1.739	0.200	7.5236	
15 minute winter	21	5.004	22	106.2	2.670	2.516	0.3982	
30 minute summer	22	1.008	23	469.5	5.631	0.499	8.1772	
15 minute winter	23	1.009	24	457.0	3.184	0.728	5.4541	
30 minute summer	24	1.010	25	448.5	1.746	0.677	27.1764	
15 minute summer	25	1.011	36	352.7	1.213	0.533	17.3338	

Results for 100 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	26	10	197.167	0.071	28.8	0.1203	0.0000	OK
15 minute winter	27	12	196.225	0.604	57.1	1.0163	0.0000	SURCHARGED
15 minute winter	28	11	195.397	0.110	69.0	0.1784	0.0000	OK
15 minute winter	29	12	193.818	0.715	95.1	1.1615	0.0000	SURCHARGED
15 minute winter	30	11	193.469	0.187	111.2	0.3114	0.0000	OK
15 minute winter	31	10	196.588	0.068	26.5	0.1137	0.0000	OK
15 minute winter	32	12	195.484	0.432	52.6	0.7182	0.0000	SURCHARGED
15 minute winter	33	11	195.054	0.106	62.4	0.1741	0.0000	OK
15 minute winter	34	13	193.268	0.408	86.9	0.6789	0.0000	SURCHARGED
15 minute winter	35	12	192.988	0.178	207.9	0.2954	0.0000	OK
15 minute winter	36	12	192.427	1.439	520.7	2.5659	0.0000	SURCHARGED
15 minute winter	37	10	196.003	0.073	29.7	0.1229	0.0000	OK
15 minute winter	38	12	195.072	0.606	58.9	1.0248	0.0000	SURCHARGED
15 minute winter	39	11	194.529	0.110	69.8	0.1855	0.0000	OK
15 minute winter	40	12	192.798	0.155	97.0	0.2629	0.0000	OK
15 minute winter	41	12	192.341	1.523	547.2	2.6904	0.0000	SURCHARGED
240 minute winter	SuDS Basin	184	191.438	1.109	234.7	811.5944	0.0000	SURCHARGED
240 minute winter	Control - 41	184	190.398	0.248	70.4	0.2807	0.0000	OK
240 minute winter	43_OUT	184	190.325	0.207	70.4	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	26	8.000	27	28.3	0.505	0.056	5.2937	
15 minute winter	27	8.001	28	44.4	2.521	3.057	0.0881	
15 minute winter	28	8.002	29	68.0	0.600	0.135	8.4957	
15 minute winter	29	8.003	30	88.7	2.256	2.098	0.2599	
15 minute winter	30	8.004	35	112.0	1.918	0.336	2.6770	
15 minute winter	31	9.000	32	26.1	0.628	0.051	5.0463	
15 minute winter	32	9.001	33	39.4	2.357	1.541	0.0782	
15 minute winter	33	9.002	34	61.9	0.978	0.126	8.0610	
15 minute winter	34	9.003	35	76.3	1.991	1.799	0.2912	
15 minute winter	35	8.005	36	208.5	2.949	0.299	3.7584	
30 minute winter	36	1.012	41	526.6	1.475	0.797	12.0930	
15 minute winter	37	10.000	38	29.2	0.546	0.058	5.3061	
15 minute winter	38	10.001	39	44.6	2.641	2.605	0.0794	
15 minute winter	39	10.002	40	69.1	1.954	0.134	2.7423	
15 minute winter	40	10.003	41	98.6	3.700	0.596	0.2260	
30 minute winter	41	1.013	SuDS Basin	573.3	2.714	1.676	21.1207	
240 minute winter	SuDS Basin	1.014	Control - 41	70.4	1.770	1.648	1.9868	
240 minute winter	Control - 41	1.015	43_OUT	70.4	1.228	0.899	0.3655	1311.7

Results for 200 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	211.169	0.078	35.1	0.1315	0.0000	OK
15 minute winter	2	11	208.420	0.146	69.2	0.2471	0.0000	OK
15 minute winter	3	11	210.770	0.078	35.1	0.1329	0.0000	OK
15 minute winter	4	10	208.046	0.208	134.0	0.3494	0.0000	OK
15 minute winter	5	10	210.384	0.078	35.1	0.1319	0.0000	OK
15 minute winter	6	13	207.989	0.592	201.8	0.9930	0.0000	SURCHARGED
15 minute winter	7	9	203.096	0.177	159.2	0.2752	0.0000	OK
15 minute summer	8	10	201.410	0.176	168.9	0.2744	0.0000	OK
15 minute winter	9	11	200.287	0.811	182.9	1.2553	0.0000	FLOOD RISK
15 minute winter	10	10	200.564	0.212	248.0	0.6986	0.0000	OK
15 minute winter	11	11	199.899	0.629	402.7	0.9007	0.0000	SURCHARGED
15 minute winter	12	10	206.136	0.058	19.7	0.0887	0.0000	OK
15 minute winter	13	14	203.636	0.299	38.6	0.4727	0.0000	SURCHARGED
15 minute winter	14	10	205.619	0.044	9.6	0.0663	0.0000	OK
15 minute winter	15	11	204.284	0.084	19.4	0.1258	0.0000	OK
15 minute winter	16	10	205.899	0.068	26.0	0.1100	0.0000	OK
15 minute winter	17	12	204.851	0.370	51.6	0.6012	0.0000	SURCHARGED
15 minute winter	18	12	204.154	0.102	56.1	0.1461	0.0000	OK
15 minute winter	19	11	203.153	0.130	94.7	0.2056	0.0000	OK
15 minute winter	20	12	201.141	0.142	113.1	0.2260	0.0000	OK
15 minute winter	21	13	200.037	0.918	131.0	1.4683	0.0000	FLOOD RISK
30 minute summer	22	18	199.142	0.232	497.3	0.3326	0.0000	OK
15 minute winter	23	12	193.775	0.876	517.0	1.3093	0.0000	SURCHARGED
30 minute winter	24	18	192.612	1.002	492.5	1.8467	27.4999	FLOOD
30 minute winter	25	18	192.452	1.221	402.7	2.2332	53.1908	FLOOD

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	1	1.000	2	34.1	1.139	0.066	3.4898	
15 minute winter	2	1.001	4	67.3	1.571	0.212	1.6022	
15 minute winter	3	2.000	4	33.7	1.836	0.067	2.0512	
15 minute winter	4	1.002	6	135.0	1.629	0.424	5.0616	
15 minute winter	5	3.000	6	34.0	1.430	0.067	9.8953	
60 minute summer	6	1.003	7	143.9	3.844	1.052	2.5634	
30 minute summer	7	1.004	8	160.0	2.795	0.312	3.8439	
15 minute summer	8	1.005	9	172.2	2.347	0.335	7.2501	
15 minute winter	9	1.006	11	183.3	2.603	1.151	0.7091	
15 minute winter	10	4.000	11	246.0	2.471	0.446	4.0265	
15 minute winter	11	1.007	22	402.1	2.934	1.104	3.4148	
15 minute winter	12	5.000	13	18.9	0.637	0.037	6.6309	
15 minute winter	13	5.001	19	21.1	1.201	1.282	0.4730	
15 minute winter	14	6.000	15	9.3	0.692	0.020	0.9785	
15 minute winter	15	6.001	18	19.0	0.813	0.072	0.5218	
15 minute winter	16	7.000	17	25.6	0.765	0.050	4.1147	
15 minute winter	17	7.001	18	38.4	2.182	1.113	0.1673	
15 minute winter	18	6.002	19	56.3	1.740	0.116	1.4913	
15 minute winter	19	5.002	20	94.0	2.333	0.185	3.3079	
15 minute winter	20	5.003	21	111.6	1.718	0.224	7.6468	
15 minute winter	21	5.004	22	119.1	2.996	2.823	0.3982	
15 minute winter	22	1.008	23	507.7	5.601	0.539	8.4895	
15 minute winter	23	1.009	24	516.1	3.257	0.822	5.4541	
15 minute summer	24	1.010	25	449.1	1.773	0.678	27.1764	
15 minute winter	25	1.011	36	339.2	1.168	0.512	17.3338	

Results for 200 year +41% CC Critical Storm Duration. Lowest mass balance: 98.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	26	10	197.173	0.077	33.5	0.1295	0.0000	OK
15 minute winter	27	12	196.386	0.765	66.5	1.2881	0.0000	FLOOD RISK
15 minute winter	28	11	195.406	0.119	80.0	0.1926	0.0000	OK
15 minute winter	29	12	193.936	0.833	110.6	1.3532	0.0000	SURCHARGED
15 minute winter	30	11	193.483	0.201	128.0	0.3348	0.0000	OK
15 minute winter	31	10	196.594	0.074	30.8	0.1223	0.0000	OK
15 minute winter	32	12	195.639	0.587	61.1	0.9755	0.0000	SURCHARGED
15 minute winter	33	11	195.062	0.114	72.4	0.1871	0.0000	OK
15 minute winter	34	13	193.390	0.530	100.4	0.8810	0.0000	SURCHARGED
15 minute winter	35	12	193.021	0.211	241.3	0.3515	0.0000	OK
30 minute winter	36	18	192.452	1.464	505.7	2.6098	0.0000	SURCHARGED
15 minute winter	37	10	196.008	0.078	34.5	0.1323	0.0000	OK
15 minute winter	38	12	195.244	0.778	68.5	1.3153	0.0000	FLOOD RISK
15 minute winter	39	11	194.538	0.118	81.2	0.2003	0.0000	OK
15 minute winter	40	11	192.830	0.188	113.0	0.3176	0.0000	OK
15 minute winter	41	11	192.385	1.567	553.6	2.7682	0.0000	SURCHARGED
240 minute winter	SuDS Basin	188	191.569	1.240	264.2	956.8718	0.0000	SURCHARGED
240 minute winter	Control - 41	188	190.409	0.258	74.4	0.2923	0.0000	OK
240 minute winter	43_OUT	188	190.331	0.213	74.4	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	26	8.000	27	33.0	0.518	0.065	5.3594	
15 minute winter	27	8.001	28	51.1	2.903	3.520	0.0881	
15 minute winter	28	8.002	29	79.1	0.687	0.157	8.6497	
15 minute winter	29	8.003	30	101.9	2.566	2.411	0.2674	
15 minute winter	30	8.004	35	128.7	1.931	0.386	3.1534	
15 minute winter	31	9.000	32	30.3	0.631	0.060	5.2009	
15 minute winter	32	9.001	33	46.3	2.711	1.810	0.0809	
15 minute winter	33	9.002	34	71.4	0.997	0.145	8.5664	
15 minute winter	34	9.003	35	89.5	2.252	2.111	0.3115	
15 minute winter	35	8.005	36	241.3	2.770	0.347	4.0184	
15 minute winter	36	1.012	41	500.8	1.403	0.758	12.0930	
15 minute winter	37	10.000	38	34.0	0.553	0.068	5.3725	
15 minute winter	38	10.001	39	51.5	2.995	3.011	0.0822	
15 minute winter	39	10.002	40	80.5	1.968	0.156	3.3646	
15 minute winter	40	10.003	41	112.1	3.690	0.677	0.2462	
30 minute winter	41	1.013	SuDS Basin	577.4	2.793	1.688	21.1207	
240 minute winter	SuDS Basin	1.014	Control - 41	74.4	1.870	1.740	1.9868	
240 minute winter	Control - 41	1.015	43_OUT	74.4	1.253	0.950	0.3778	1490.2