

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)	20.000	Minimum Backdrop Height (m)	3.000
Ratio-R	0.400	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)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.054	5.00	106.265	1200	445983.613	297791.893	1.600
8	0.049	5.00	106.500	1200	446016.417	297792.076	1.700
2	0.029	5.00	106.130	1200	446007.180	297793.092	1.622
4	0.013	5.00	106.130	1200	446006.426	297836.559	1.853
9	0.049	5.00	105.418	1200	445982.965	297846.663	0.838
5	0.008	5.00	105.500	1200	446011.973	297847.004	1.276
10	0.042	5.00	105.428	1200	446021.712	297877.831	1.120
11			105.500	1200	446021.883	297851.526	1.309
6			105.860	1200	446023.589	297847.241	1.689
7			105.660	1200	446028.762	297847.554	1.524
3	0.052	5.00	106.100	1200	446006.869	297811.006	1.672

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	23.597	0.600	104.665	104.508	0.157	150.3	225	5.37	50.0
2.000	8	2	9.293	0.600	104.800	104.583	0.217	42.8	150	5.10	50.0
1.001	2	3	17.917	0.600	104.508	104.428	0.080	224.0	225	5.71	50.0
1.002	3	4	25.557	0.600	104.428	104.277	0.151	169.3	225	6.14	49.8
1.003	4	5	11.827	0.600	104.277	104.224	0.053	223.1	225	6.36	49.0
3.000	9	5	29.010	0.600	104.580	104.387	0.193	150.3	150	5.59	50.0
1.004	5	6	11.618	0.600	104.224	104.172	0.052	223.4	225	6.59	48.2
4.000	10	11	26.306	0.600	104.308	104.191	0.117	225.0	225	5.51	50.0
4.001	11	6	4.612	0.600	104.191	104.171	0.020	230.6	225	5.60	50.0
1.005	6	7	5.182	0.600	104.171	104.136	0.035	148.1	150	6.69	47.8

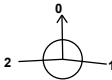
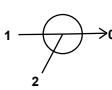
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	1.064	42.3	7.3	1.375	1.397	0.054	0.0
2.000	1.542	27.2	6.6	1.550	1.397	0.049	0.0
1.001	0.869	34.6	17.9	1.397	1.447	0.132	0.0
1.002	1.002	39.8	24.9	1.447	1.628	0.184	0.0
1.003	0.871	34.6	26.1	1.628	1.051	0.197	0.0
3.000	0.817	14.4	6.7	0.688	0.963	0.049	0.0
1.004	0.870	34.6	33.2	1.051	1.463	0.254	0.0
4.000	0.867	34.5	5.7	0.895	1.084	0.042	0.0
4.001	0.857	34.1	5.7	1.084	1.464	0.042	0.0
1.005	0.823	14.5	38.4	1.539	1.374	0.296	0.0

Pipeline Schedule

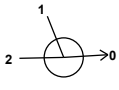
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	23.597	150.3	225	Circular	106.265	104.665	1.375	106.130	104.508	1.397
2.000	9.293	42.8	150	Circular	106.500	104.800	1.550	106.130	104.583	1.397
1.001	17.917	224.0	225	Circular	106.130	104.508	1.397	106.100	104.428	1.447
1.002	25.557	169.3	225	Circular	106.100	104.428	1.447	106.130	104.277	1.628
1.003	11.827	223.1	225	Circular	106.130	104.277	1.628	105.500	104.224	1.051
3.000	29.010	150.3	150	Circular	105.418	104.580	0.688	105.500	104.387	0.963
1.004	11.618	223.4	225	Circular	105.500	104.224	1.051	105.860	104.172	1.463
4.000	26.306	225.0	225	Circular	105.428	104.308	0.895	105.500	104.191	1.084
4.001	4.612	230.6	225	Circular	105.500	104.191	1.084	105.860	104.171	1.464
1.005	5.182	148.1	150	Circular	105.860	104.171	1.539	105.660	104.136	1.374

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
2.000	8	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	3	1200	Manhole	Adoptable
1.002	3	1200	Manhole	Adoptable	4	1200	Manhole	Adoptable
1.003	4	1200	Manhole	Adoptable	5	1200	Manhole	Adoptable
3.000	9	1200	Manhole	Adoptable	5	1200	Manhole	Adoptable
1.004	5	1200	Manhole	Adoptable	6	1200	Manhole	Adoptable
4.000	10	1200	Manhole	Adoptable	11	1200	Manhole	Adoptable
4.001	11	1200	Manhole	Adoptable	6	1200	Manhole	Adoptable
1.005	6	1200	Manhole	Adoptable	7	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	445983.613	297791.893	106.265	1.600	1200				
						0	1.000	104.665	225
8	446016.417	297792.076	106.500	1.700	1200				
						0	2.000	104.800	150
2	446007.180	297793.092	106.130	1.622	1200		1 2	104.583 104.508	150 225
						0	1.001	104.508	225
4	446006.426	297836.559	106.130	1.853	1200		1	1.002	104.277
						0	1.003	104.277	225
9	445982.965	297846.663	105.418	0.838	1200				
						0	3.000	104.580	150
5	446011.973	297847.004	105.500	1.276	1200		1 2	104.387 104.224	150 225
						0	1.004	104.224	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
10	446021.712	297877.831	105.428	1.120	1200		0	4.000	104.308	225
11	446021.883	297851.526	105.500	1.309	1200		1	4.000	104.191	225
6	446023.589	297847.241	105.860	1.689	1200		0	4.001	104.191	225
							1	4.001	104.171	225
							2	1.004	104.172	225
7	446028.762	297847.554	105.660	1.524	1200		0	1.005	104.171	150
							1	1.005	104.136	150
3	446006.869	297811.006	106.100	1.672	1200		1	1.001	104.428	225
							0	1.002	104.428	225

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	2880
Ratio-R	0.400	Additional Storage (m³/ha)	20.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

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

Node 6 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	104.171	Product Number	CTL-SHE-0065-2200-1400-2200
Design Depth (m)	1.400	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	2.2	Min Node Diameter (mm)	1200

Node 3 Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	104.428	Product Number	CTL-SCU-0038-2000-1600-2000
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

Node 1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	104.665
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	900

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	81.3	0.0	0.800	81.3	0.0	0.801	0.0	0.0

Node 3 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	104.428
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	1665

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	96.0	0.0	0.800	96.0	0.0	0.801	0.0	0.0

Node 9 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	104.918	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	328	Depth (m)	0.450
Safety Factor	2.0	Width (m)	8.300	Inf Depth (m)	
Porosity	0.30	Length (m)	30.000		

Node 5 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	105.000	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	198	Depth (m)	
Safety Factor	2.0	Width (m)	5.230	Inf Depth (m)	
Porosity	0.30	Length (m)	11.600		

Node 4 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	104.950	Slope (1:X)	64.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	
Safety Factor	2.0	Width (m)	10.009	Inf Depth (m)	
Porosity	0.30	Length (m)	25.557		

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	109.521	30.991	1 year 60 minute winter	32.179	12.800
1 year 15 minute winter	76.857	30.991	1 year 120 minute summer	30.053	7.942
1 year 30 minute summer	71.439	20.215	1 year 120 minute winter	19.966	7.942
1 year 30 minute winter	50.133	20.215	1 year 180 minute summer	23.233	5.979
1 year 60 minute summer	48.435	12.800	1 year 180 minute winter	15.102	5.979

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 240 minute summer	18.475	4.882	30 year 600 minute winter	13.498	5.404
1 year 240 minute winter	12.274	4.882	30 year 720 minute summer	17.490	4.687
1 year 360 minute summer	14.169	3.646	30 year 720 minute winter	11.754	4.687
1 year 360 minute winter	9.210	3.646	30 year 960 minute summer	14.215	3.743
1 year 480 minute summer	11.185	2.956	30 year 960 minute winter	9.416	3.743
1 year 480 minute winter	7.431	2.956	30 year 1440 minute summer	10.161	2.723
1 year 600 minute summer	9.182	2.511	30 year 1440 minute winter	6.829	2.723
1 year 600 minute winter	6.274	2.511	100 year +40% CC 15 minute summer	488.233	138.153
1 year 720 minute summer	8.203	2.199	100 year +40% CC 15 minute winter	342.620	138.153
1 year 720 minute winter	5.513	2.199	100 year +40% CC 30 minute summer	320.551	90.705
1 year 960 minute summer	6.768	1.782	100 year +40% CC 30 minute winter	224.948	90.705
1 year 960 minute winter	4.483	1.782	100 year +40% CC 60 minute summer	214.603	56.713
1 year 1440 minute summer	4.949	1.326	100 year +40% CC 60 minute winter	142.577	56.713
1 year 1440 minute winter	3.326	1.326	100 year +40% CC 120 minute summer	129.587	34.246
30 year 15 minute summer	268.706	76.035	100 year +40% CC 120 minute winter	86.094	34.246
30 year 15 minute winter	188.566	76.035	100 year +40% CC 180 minute summer	97.729	25.149
30 year 30 minute summer	174.929	49.499	100 year +40% CC 180 minute winter	63.526	25.149
30 year 30 minute winter	122.757	49.499	100 year +40% CC 240 minute summer	75.977	20.078
30 year 60 minute summer	116.589	30.811	100 year +40% CC 240 minute winter	50.477	20.078
30 year 60 minute winter	77.459	30.811	100 year +40% CC 360 minute summer	56.677	14.585
30 year 120 minute summer	70.438	18.615	100 year +40% CC 360 minute winter	36.841	14.585
30 year 120 minute winter	46.797	18.615	100 year +40% CC 480 minute summer	43.979	11.622
30 year 180 minute summer	53.298	13.715	100 year +40% CC 480 minute winter	29.219	11.622
30 year 180 minute winter	34.645	13.715	100 year +40% CC 600 minute summer	35.604	9.738
30 year 240 minute summer	41.604	10.995	100 year +40% CC 600 minute winter	24.327	9.738
30 year 240 minute winter	27.641	10.995	100 year +40% CC 720 minute summer	31.433	8.424
30 year 360 minute summer	31.221	8.034	100 year +40% CC 720 minute winter	21.125	8.424
30 year 360 minute winter	20.295	8.034	100 year +40% CC 960 minute summer	25.432	6.697
30 year 480 minute summer	24.324	6.428	100 year +40% CC 960 minute winter	16.847	6.697
30 year 480 minute winter	16.160	6.428	100 year +40% CC 1440 minute summer	18.055	4.839
30 year 600 minute summer	19.756	5.404	100 year +40% CC 1440 minute winter	12.134	4.839

Results for 1 year 15 minute summer. 2895 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	15	104.696	0.031	7.2	2.4207	0.0000	OK
15 minute summer	8	10	104.853	0.053	6.6	0.0903	0.0000	OK
15 minute summer	2	10	104.600	0.092	11.0	0.1371	0.0000	OK
15 minute summer	4	17	104.618	0.341	3.2	0.4326	0.0000	SURCHARGED
15 minute summer	9	11	104.651	0.071	6.6	0.1648	0.0000	OK
15 minute summer	5	17	104.617	0.393	8.4	0.4941	0.0000	SURCHARGED
15 minute summer	10	15	104.618	0.310	5.7	0.5831	0.0000	SURCHARGED
15 minute summer	11	16	104.617	0.426	4.9	0.4818	0.0000	SURCHARGED
15 minute summer	6	16	104.617	0.446	6.9	0.5041	0.0000	SURCHARGED
15 minute summer	7	27	104.172	0.036	1.8	0.0000	0.0000	OK
15 minute summer	3	36	104.526	0.098	17.9	9.0855	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	1.7	0.417	0.040	0.2040	
15 minute summer	8	2.000	2	6.5	1.224	0.240	0.0496	
15 minute summer	2	1.001	3	11.2	1.205	0.325	0.1946	
15 minute summer	4	1.003	5	-2.4	0.322	-0.071	0.4704	
15 minute summer	9	3.000	5	6.4	0.788	0.443	0.3393	
15 minute summer	5	1.004	6	6.9	0.311	0.198	0.4621	
15 minute summer	10	4.000	11	4.9	0.441	0.142	1.0462	
15 minute summer	11	4.001	6	-3.7	0.204	-0.108	0.1834	
15 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	17.1
15 minute summer	3	Hydro-Brake®	4	0.6				

Results for 1 year 15 minute winter. 2895 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	15	104.699	0.034	7.6	2.6736	0.0000	OK
15 minute winter	8	10	104.854	0.054	6.9	0.0924	0.0000	OK
15 minute winter	2	10	104.602	0.094	11.7	0.1393	0.0000	OK
15 minute winter	4	16	104.674	0.397	3.6	0.5032	0.0000	SURCHARGED
15 minute winter	9	15	104.678	0.098	7.0	0.2252	0.0000	OK
15 minute winter	5	16	104.675	0.451	8.0	0.5670	0.0000	SURCHARGED
15 minute winter	10	16	104.680	0.372	7.2	0.7001	0.0000	SURCHARGED
15 minute winter	11	16	104.675	0.483	5.1	0.5468	0.0000	SURCHARGED
15 minute winter	6	16	104.675	0.504	5.9	0.5700	0.0000	SURCHARGED
15 minute winter	7	33	104.172	0.036	1.8	0.0000	0.0000	OK
15 minute winter	3	37	104.542	0.113	18.7	10.5457	0.0000	OK

Link Event	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	2.1	0.441	0.049	0.2127	
15 minute winter	8	2.000	2	6.8	1.237	0.250	0.0512	
15 minute winter	2	1.001	3	11.8	1.197	0.341	0.2137	
15 minute winter	4	1.003	5	-1.8	0.328	-0.053	0.4704	
15 minute winter	9	3.000	5	6.9	0.789	0.477	0.4312	
15 minute winter	5	1.004	6	5.9	0.342	0.172	0.4621	
15 minute winter	10	4.000	11	5.1	0.465	0.149	1.0462	
15 minute winter	11	4.001	6	-3.0	0.210	-0.087	0.1834	
15 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	19.2
15 minute winter	3	Hydro-Brake®	4	0.6				

Results for 1 year 30 minute summer. 2910 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	23	104.699	0.034	6.5	2.7055	0.0000	OK
30 minute summer	8	18	104.850	0.050	5.9	0.0852	0.0000	OK
30 minute summer	2	18	104.596	0.088	10.6	0.1303	0.0000	OK
30 minute summer	4	26	104.678	0.401	2.5	0.5090	0.0000	SURCHARGED
30 minute summer	9	25	104.680	0.100	5.9	0.2317	0.0000	OK
30 minute summer	5	27	104.678	0.454	7.4	0.5710	0.0000	SURCHARGED
30 minute summer	10	24	104.679	0.371	5.1	0.6996	0.0000	SURCHARGED
30 minute summer	11	26	104.678	0.487	3.2	0.5509	0.0000	SURCHARGED
30 minute summer	6	26	104.678	0.507	5.6	0.5734	0.0000	SURCHARGED
30 minute summer	7	48	104.172	0.036	1.8	0.0000	0.0000	OK
30 minute summer	3	50	104.562	0.134	16.6	12.4878	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	2.1	0.395	0.051	0.2015	
30 minute summer	8	2.000	2	5.9	1.193	0.217	0.0460	
30 minute summer	2	1.001	3	10.4	1.044	0.302	0.2877	
30 minute summer	4	1.003	5	1.0	0.334	0.028	0.4704	
30 minute summer	9	3.000	5	5.8	0.750	0.405	0.4370	
30 minute summer	5	1.004	6	5.6	0.294	0.161	0.4621	
30 minute summer	10	4.000	11	3.2	0.376	0.094	1.0462	
30 minute summer	11	4.001	6	-3.0	0.188	-0.087	0.1834	
30 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	22.4
30 minute summer	3	Hydro-Brake®	4	0.7				

Results for 1 year 30 minute winter. 2910 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	23	104.702	0.037	5.9	2.9194	0.0000	OK
30 minute winter	8	18	104.847	0.047	5.3	0.0804	0.0000	OK
30 minute winter	2	19	104.592	0.084	9.8	0.1253	0.0000	OK
30 minute winter	4	29	104.766	0.489	2.9	0.6201	0.0000	SURCHARGED
30 minute winter	9	28	104.766	0.186	5.4	0.4299	0.0000	SURCHARGED
30 minute winter	5	28	104.765	0.541	6.3	0.6808	0.0000	SURCHARGED
30 minute winter	10	29	104.765	0.456	4.6	0.8600	0.0000	SURCHARGED
30 minute winter	11	29	104.765	0.574	3.1	0.6496	0.0000	SURCHARGED
30 minute winter	6	29	104.765	0.594	4.0	0.6722	0.0000	SURCHARGED
30 minute winter	7	56	104.172	0.036	1.8	0.0000	0.0000	OK
30 minute winter	3	53	104.584	0.156	15.6	14.4599	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	2.5	0.411	0.059	0.2005	
30 minute winter	8	2.000	2	5.3	1.160	0.195	0.0425	
30 minute winter	2	1.001	3	9.8	0.981	0.284	0.3671	
30 minute winter	4	1.003	5	-1.2	0.340	-0.036	0.4704	
30 minute winter	9	3.000	5	5.4	0.741	0.376	0.5107	
30 minute winter	5	1.004	6	4.0	0.287	0.116	0.4621	
30 minute winter	10	4.000	11	3.1	0.386	0.091	1.0462	
30 minute winter	11	4.001	6	2.2	0.209	0.065	0.1834	
30 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	25.1
30 minute winter	3	Hydro-Brake®	4	0.7				

Results for 1 year 60 minute summer. 2940 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	39	104.701	0.036	4.9	2.8235	0.0000	OK
60 minute summer	8	33	104.843	0.043	4.4	0.0727	0.0000	OK
60 minute summer	2	73	104.602	0.094	8.5	0.1394	0.0000	OK
60 minute summer	4	44	104.706	0.429	1.6	0.5449	0.0000	SURCHARGED
60 minute summer	9	43	104.706	0.126	4.5	0.2909	0.0000	OK
60 minute summer	5	43	104.706	0.482	5.7	0.6062	0.0000	SURCHARGED
60 minute summer	10	44	104.704	0.396	3.8	0.7454	0.0000	SURCHARGED
60 minute summer	11	44	104.705	0.514	2.4	0.5814	0.0000	SURCHARGED
60 minute summer	6	44	104.705	0.534	4.1	0.6041	0.0000	SURCHARGED
60 minute summer	7	76	104.172	0.036	1.8	0.0000	0.0000	OK
60 minute summer	3	72	104.601	0.173	13.1	16.1046	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	2.3	0.401	0.055	0.2032	
60 minute summer	8	2.000	2	4.4	1.104	0.161	0.0371	
60 minute summer	2	1.001	3	8.5	0.806	0.246	0.4337	
60 minute summer	4	1.003	5	-1.0	0.345	-0.028	0.4704	
60 minute summer	9	3.000	5	4.5	0.705	0.313	0.4844	
60 minute summer	5	1.004	6	4.1	0.274	0.120	0.4621	
60 minute summer	10	4.000	11	2.4	0.336	0.070	1.0462	
60 minute summer	11	4.001	6	2.0	0.155	0.058	0.1834	
60 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	28.4
60 minute summer	3	Hydro-Brake®	4	0.7				

Results for 1 year 60 minute winter. 2940 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	40	104.702	0.037	4.0	2.8941	0.0000	OK
60 minute winter	8	33	104.838	0.038	3.6	0.0654	0.0000	OK
60 minute winter	2	77	104.628	0.120	7.5	0.1786	0.0000	OK
60 minute winter	4	47	104.799	0.522	1.6	0.6626	0.0000	SURCHARGED
60 minute winter	9	47	104.801	0.221	3.6	0.5092	0.0000	SURCHARGED
60 minute winter	5	47	104.799	0.575	4.7	0.7232	0.0000	SURCHARGED
60 minute winter	10	47	104.799	0.491	3.1	0.9253	0.0000	SURCHARGED
60 minute winter	11	47	104.799	0.608	2.3	0.6877	0.0000	SURCHARGED
60 minute winter	6	47	104.799	0.628	3.2	0.7102	0.0000	SURCHARGED
60 minute winter	7	86	104.172	0.036	1.8	0.0000	0.0000	OK
60 minute winter	3	77	104.628	0.200	11.8	18.5817	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	2.5	0.385	0.058	0.2704	
60 minute winter	8	2.000	2	3.6	1.045	0.132	0.0320	
60 minute winter	2	1.001	3	7.6	0.732	0.220	0.5268	
60 minute winter	4	1.003	5	0.9	0.350	0.027	0.4704	
60 minute winter	9	3.000	5	3.6	0.655	0.249	0.5107	
60 minute winter	5	1.004	6	3.2	0.277	0.091	0.4621	
60 minute winter	10	4.000	11	2.3	0.344	0.066	1.0462	
60 minute winter	11	4.001	6	1.8	0.163	0.054	0.1834	
60 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	31.8
60 minute winter	3	Hydro-Brake®	4	0.8				

Results for 1 year 120 minute summer. 3000 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	70	104.699	0.034	3.2	2.6746	0.0000	OK
120 minute summer	8	64	104.834	0.034	2.9	0.0584	0.0000	OK
120 minute summer	2	124	104.632	0.124	6.3	0.1850	0.0000	OK
120 minute summer	4	78	104.684	0.407	1.3	0.5162	0.0000	SURCHARGED
120 minute summer	9	78	104.685	0.105	3.0	0.2424	0.0000	OK
120 minute summer	5	78	104.684	0.460	3.8	0.5787	0.0000	SURCHARGED
120 minute summer	10	78	104.684	0.376	2.5	0.7092	0.0000	SURCHARGED
120 minute summer	11	78	104.684	0.493	1.6	0.5576	0.0000	SURCHARGED
120 minute summer	6	78	104.684	0.513	2.4	0.5802	0.0000	SURCHARGED
120 minute summer	7	124	104.172	0.036	1.8	0.0000	0.0000	OK
120 minute summer	3	124	104.632	0.204	9.3	18.9895	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	2.1	0.364	0.049	0.2802	
120 minute summer	8	2.000	2	2.9	0.985	0.106	0.0274	
120 minute summer	2	1.001	3	6.2	0.571	0.181	0.5409	
120 minute summer	4	1.003	5	0.9	0.352	0.027	0.4704	
120 minute summer	9	3.000	5	3.0	0.612	0.208	0.4464	
120 minute summer	5	1.004	6	2.3	0.228	0.065	0.4621	
120 minute summer	10	4.000	11	1.6	0.290	0.045	1.0462	
120 minute summer	11	4.001	6	1.4	0.220	0.040	0.1834	
120 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	35.2
120 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 120 minute winter. 3000 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	74	104.698	0.033	2.5	2.6064	0.0000	OK
120 minute winter	8	64	104.830	0.030	2.3	0.0518	0.0000	OK
120 minute winter	2	124	104.665	0.157	5.3	0.2337	0.0000	OK
120 minute winter	4	84	104.742	0.465	1.1	0.5898	0.0000	SURCHARGED
120 minute winter	9	84	104.743	0.163	2.3	0.3755	0.0000	SURCHARGED
120 minute winter	5	84	104.742	0.518	3.1	0.6513	0.0000	SURCHARGED
120 minute winter	10	84	104.742	0.434	1.9	0.8173	0.0000	SURCHARGED
120 minute winter	11	84	104.742	0.551	1.3	0.6228	0.0000	SURCHARGED
120 minute winter	6	84	104.742	0.571	2.3	0.6454	0.0000	SURCHARGED
120 minute winter	7	134	104.172	0.036	1.8	0.0000	0.0000	OK
120 minute winter	3	124	104.665	0.237	8.0	22.0324	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	2.0	0.339	0.047	0.3656	
120 minute winter	8	2.000	2	2.3	0.923	0.084	0.0476	
120 minute winter	2	1.001	3	5.3	0.582	0.153	0.6212	
120 minute winter	4	1.003	5	1.0	0.358	0.029	0.4704	
120 minute winter	9	3.000	5	2.3	0.570	0.159	0.5107	
120 minute winter	5	1.004	6	2.0	0.229	0.059	0.4621	
120 minute winter	10	4.000	11	1.3	0.280	0.038	1.0462	
120 minute winter	11	4.001	6	1.1	0.243	0.032	0.1834	
120 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	39.4
120 minute winter	3	Hydro-Brake®	4	0.8				

Results for 1 year 180 minute summer. 3060 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	104	104.697	0.032	2.4	2.5072	0.0000	OK
180 minute summer	8	96	104.830	0.030	2.2	0.0507	0.0000	OK
180 minute summer	2	180	104.644	0.136	5.1	0.2029	0.0000	OK
180 minute summer	4	112	104.661	0.384	1.1	0.4876	0.0000	SURCHARGED
180 minute summer	9	112	104.662	0.082	2.2	0.1888	0.0000	OK
180 minute summer	5	112	104.661	0.437	3.2	0.5501	0.0000	SURCHARGED
180 minute summer	10	112	104.661	0.353	1.9	0.6658	0.0000	SURCHARGED
180 minute summer	11	112	104.661	0.470	1.1	0.5319	0.0000	SURCHARGED
180 minute summer	6	112	104.661	0.490	2.3	0.5545	0.0000	SURCHARGED
180 minute summer	7	160	104.172	0.036	1.8	0.0000	0.0000	OK
180 minute summer	3	180	104.644	0.216	7.4	20.0985	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	1.8	0.330	0.043	0.3089	
180 minute summer	8	2.000	2	2.2	0.911	0.081	0.0335	
180 minute summer	2	1.001	3	5.1	0.485	0.147	0.5766	
180 minute summer	4	1.003	5	1.0	0.355	0.028	0.4704	
180 minute summer	9	3.000	5	2.2	0.556	0.152	0.3977	
180 minute summer	5	1.004	6	2.2	0.153	0.064	0.4621	
180 minute summer	10	4.000	11	1.1	0.283	0.032	1.0462	
180 minute summer	11	4.001	6	1.0	0.114	0.028	0.1834	
180 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	39.8
180 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 180 minute winter. 3060 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	104	104.695	0.030	1.9	2.3830	0.0000	OK
180 minute winter	8	96	104.826	0.026	1.7	0.0445	0.0000	OK
180 minute winter	2	180	104.678	0.170	4.2	0.2533	0.0000	OK
180 minute winter	4	120	104.679	0.402	0.9	0.5106	0.0000	SURCHARGED
180 minute winter	9	120	104.680	0.100	1.7	0.2312	0.0000	OK
180 minute winter	5	120	104.679	0.455	2.4	0.5729	0.0000	SURCHARGED
180 minute winter	10	120	104.679	0.371	1.5	0.6998	0.0000	SURCHARGED
180 minute winter	11	120	104.679	0.488	1.1	0.5523	0.0000	SURCHARGED
180 minute winter	6	120	104.679	0.508	2.1	0.5749	0.0000	SURCHARGED
180 minute winter	7	184	104.172	0.036	1.8	0.0000	0.0000	OK
180 minute winter	3	180	104.678	0.250	6.2	23.2475	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	1.6	0.322	0.039	0.3935	
180 minute winter	8	2.000	2	1.7	0.846	0.062	0.0568	
180 minute winter	2	1.001	3	4.2	0.545	0.122	0.6448	
180 minute winter	4	1.003	5	1.0	0.360	0.029	0.4704	
180 minute winter	9	3.000	5	1.7	0.527	0.118	0.4366	
180 minute winter	5	1.004	6	1.8	0.220	0.053	0.4621	
180 minute winter	10	4.000	11	1.1	0.262	0.032	1.0462	
180 minute winter	11	4.001	6	1.0	0.225	0.028	0.1834	
180 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	44.5
180 minute winter	3	Hydro-Brake®	4	0.9				

Results for 1 year 240 minute summer. 3120 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	132	104.695	0.030	2.1	2.3561	0.0000	OK
240 minute summer	8	124	104.828	0.028	1.9	0.0470	0.0000	OK
240 minute summer	2	216	104.648	0.140	4.3	0.2085	0.0000	OK
240 minute summer	4	144	104.634	0.357	1.1	0.4528	0.0000	SURCHARGED
240 minute summer	9	144	104.635	0.054	1.9	0.1258	0.0000	OK
240 minute summer	5	144	104.634	0.410	2.7	0.5155	0.0000	SURCHARGED
240 minute summer	10	144	104.634	0.326	1.6	0.6137	0.0000	SURCHARGED
240 minute summer	11	144	104.634	0.443	1.0	0.5007	0.0000	SURCHARGED
240 minute summer	6	144	104.634	0.463	2.2	0.5233	0.0000	SURCHARGED
240 minute summer	7	192	104.172	0.036	1.8	0.0000	0.0000	OK
240 minute summer	3	216	104.648	0.220	6.3	20.4484	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	1.6	0.319	0.038	0.3186	
240 minute summer	8	2.000	2	1.9	0.872	0.069	0.0360	
240 minute summer	2	1.001	3	4.3	0.482	0.126	0.5866	
240 minute summer	4	1.003	5	1.0	0.357	0.028	0.4704	
240 minute summer	9	3.000	5	1.9	0.550	0.130	0.3391	
240 minute summer	5	1.004	6	2.2	0.184	0.063	0.4621	
240 minute summer	10	4.000	11	1.0	0.242	0.030	1.0462	
240 minute summer	11	4.001	6	1.0	0.102	0.029	0.1834	
240 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	43.3
240 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 240 minute winter. 3120 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	136	104.693	0.028	1.5	2.2015	0.0000	OK
240 minute winter	8	124	104.824	0.024	1.4	0.0404	0.0000	OK
240 minute winter	2	228	104.680	0.172	3.5	0.2566	0.0000	OK
240 minute winter	4	156	104.650	0.373	0.9	0.4728	0.0000	SURCHARGED
240 minute winter	9	156	104.650	0.070	1.4	0.1618	0.0000	OK
240 minute winter	5	156	104.650	0.426	2.2	0.5353	0.0000	SURCHARGED
240 minute winter	10	156	104.650	0.342	1.2	0.6434	0.0000	SURCHARGED
240 minute winter	11	156	104.650	0.458	0.9	0.5185	0.0000	SURCHARGED
240 minute winter	6	156	104.649	0.478	2.0	0.5411	0.0000	SURCHARGED
240 minute winter	7	216	104.172	0.036	1.8	0.0000	0.0000	OK
240 minute winter	3	228	104.680	0.252	5.0	23.4542	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	1.4	0.296	0.033	0.3988	
240 minute winter	8	2.000	2	1.4	0.801	0.051	0.0583	
240 minute winter	2	1.001	3	3.5	0.483	0.100	0.6487	
240 minute winter	4	1.003	5	1.0	0.361	0.029	0.4704	
240 minute winter	9	3.000	5	1.4	0.505	0.097	0.3723	
240 minute winter	5	1.004	6	1.7	0.188	0.049	0.4621	
240 minute winter	10	4.000	11	0.9	0.234	0.027	1.0462	
240 minute winter	11	4.001	6	0.9	0.209	0.026	0.1834	
240 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	48.2
240 minute winter	3	Hydro-Brake®	4	0.9				

Results for 1 year 360 minute summer. 3240 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	192	104.692	0.027	1.6	2.1388	0.0000	OK
360 minute summer	8	184	104.824	0.024	1.4	0.0403	0.0000	OK
360 minute summer	2	280	104.643	0.135	3.5	0.2004	0.0000	OK
360 minute summer	4	208	104.591	0.314	1.0	0.3990	0.0000	SURCHARGED
360 minute summer	9	184	104.612	0.032	1.5	0.0747	0.0000	OK
360 minute summer	5	208	104.591	0.367	2.3	0.4622	0.0000	SURCHARGED
360 minute summer	10	208	104.591	0.283	1.2	0.5339	0.0000	SURCHARGED
360 minute summer	11	208	104.591	0.400	0.8	0.4528	0.0000	SURCHARGED
360 minute summer	6	208	104.591	0.420	2.0	0.4754	0.0000	SURCHARGED
360 minute summer	7	256	104.172	0.036	1.8	0.0000	0.0000	OK
360 minute summer	3	280	104.643	0.215	4.9	19.9429	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	1.3	0.279	0.031	0.3045	
360 minute summer	8	2.000	2	1.4	0.800	0.051	0.0323	
360 minute summer	2	1.001	3	3.4	0.427	0.098	0.5720	
360 minute summer	4	1.003	5	1.0	0.356	0.028	0.4704	
360 minute summer	9	3.000	5	1.5	0.503	0.103	0.2867	
360 minute summer	5	1.004	6	1.7	0.163	0.049	0.4621	
360 minute summer	10	4.000	11	0.8	0.202	0.022	1.0462	
360 minute summer	11	4.001	6	0.7	0.171	0.020	0.1834	
360 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	47.1
360 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 360 minute winter. 3240 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	200	104.690	0.025	1.2	1.9643	0.0000	OK
360 minute winter	8	184	104.821	0.021	1.1	0.0358	0.0000	OK
360 minute winter	2	296	104.677	0.169	2.7	0.2522	0.0000	OK
360 minute winter	4	224	104.603	0.326	0.9	0.4143	0.0000	SURCHARGED
360 minute winter	9	184	104.608	0.028	1.1	0.0642	0.0000	OK
360 minute winter	5	224	104.603	0.379	2.0	0.4773	0.0000	SURCHARGED
360 minute winter	10	224	104.603	0.295	0.9	0.5566	0.0000	SURCHARGED
360 minute winter	11	224	104.603	0.412	0.7	0.4664	0.0000	SURCHARGED
360 minute winter	6	224	104.603	0.432	1.9	0.4890	0.0000	SURCHARGED
360 minute winter	7	192	104.172	0.036	1.8	0.0000	0.0000	OK
360 minute winter	3	296	104.677	0.249	3.7	23.1794	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	1.1	0.276	0.026	0.3912	
360 minute winter	8	2.000	2	1.1	0.746	0.040	0.0563	
360 minute winter	2	1.001	3	2.6	0.473	0.074	0.6436	
360 minute winter	4	1.003	5	1.0	0.362	0.029	0.4704	
360 minute winter	9	3.000	5	1.1	0.470	0.075	0.2860	
360 minute winter	5	1.004	6	1.7	0.128	0.048	0.4621	
360 minute winter	10	4.000	11	0.7	0.227	0.021	1.0462	
360 minute winter	11	4.001	6	0.7	0.074	0.019	0.1834	
360 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	54.2
360 minute winter	3	Hydro-Brake®	4	0.9				

Results for 1 year 480 minute summer. 3360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	256	104.690	0.025	1.3	1.9995	0.0000	OK
480 minute summer	8	248	104.821	0.021	1.1	0.0359	0.0000	OK
480 minute summer	2	344	104.641	0.133	2.9	0.1985	0.0000	OK
480 minute summer	4	280	104.561	0.284	0.9	0.3598	0.0000	SURCHARGED
480 minute summer	9	248	104.609	0.029	1.2	0.0673	0.0000	OK
480 minute summer	5	280	104.561	0.336	2.1	0.4233	0.0000	SURCHARGED
480 minute summer	10	280	104.560	0.252	1.0	0.4756	0.0000	SURCHARGED
480 minute summer	11	280	104.560	0.369	0.6	0.4178	0.0000	SURCHARGED
480 minute summer	6	280	104.560	0.389	1.9	0.4404	0.0000	SURCHARGED
480 minute summer	7	256	104.172	0.036	1.8	0.0000	0.0000	OK
480 minute summer	3	344	104.641	0.213	3.9	19.8238	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	1.1	0.266	0.027	0.3013	
480 minute summer	8	2.000	2	1.1	0.747	0.040	0.0315	
480 minute summer	2	1.001	3	2.7	0.427	0.078	0.5684	
480 minute summer	4	1.003	5	1.0	0.354	0.028	0.4704	
480 minute summer	9	3.000	5	1.2	0.492	0.083	0.2832	
480 minute summer	5	1.004	6	1.8	0.163	0.051	0.4621	
480 minute summer	10	4.000	11	0.6	0.202	0.018	1.0462	
480 minute summer	11	4.001	6	0.5	0.171	0.016	0.1834	
480 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	51.3
480 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 480 minute winter. 3360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	264	104.688	0.022	0.9	1.7772	0.0000	OK
480 minute winter	8	232	104.818	0.018	0.8	0.0307	0.0000	OK
480 minute winter	2	368	104.665	0.157	2.2	0.2332	0.0000	OK
480 minute winter	4	304	104.549	0.272	0.9	0.3448	0.0000	SURCHARGED
480 minute winter	9	248	104.605	0.025	0.9	0.0585	0.0000	OK
480 minute winter	5	304	104.549	0.325	1.8	0.4085	0.0000	SURCHARGED
480 minute winter	10	304	104.549	0.241	0.7	0.4534	0.0000	SURCHARGED
480 minute winter	11	304	104.549	0.358	0.6	0.4045	0.0000	SURCHARGED
480 minute winter	6	304	104.549	0.378	1.9	0.4271	0.0000	SURCHARGED
480 minute winter	7	272	104.172	0.036	1.8	0.0000	0.0000	OK
480 minute winter	3	368	104.665	0.237	3.0	21.9914	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.9	0.263	0.021	0.3607	
480 minute winter	8	2.000	2	0.8	0.679	0.029	0.0476	
480 minute winter	2	1.001	3	2.1	0.416	0.060	0.6206	
480 minute winter	4	1.003	5	1.0	0.360	0.029	0.4704	
480 minute winter	9	3.000	5	0.9	0.453	0.062	0.2771	
480 minute winter	5	1.004	6	1.5	0.127	0.044	0.4621	
480 minute winter	10	4.000	11	0.6	0.227	0.017	1.0462	
480 minute winter	11	4.001	6	0.5	0.083	0.015	0.1834	
480 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	58.2
480 minute winter	3	Hydro-Brake®	4	0.8				

Results for 1 year 600 minute summer. 3480 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	104.688	0.023	1.0	1.8040	0.0000	OK
600 minute summer	8	315	104.819	0.019	0.9	0.0325	0.0000	OK
600 minute summer	2	420	104.637	0.129	2.4	0.1916	0.0000	OK
600 minute summer	4	360	104.510	0.233	0.9	0.2962	0.0000	SURCHARGED
600 minute summer	9	300	104.605	0.025	0.9	0.0587	0.0000	OK
600 minute summer	5	360	104.510	0.286	1.8	0.3602	0.0000	SURCHARGED
600 minute summer	10	360	104.510	0.202	0.8	0.3811	0.0000	OK
600 minute summer	11	360	104.510	0.319	0.5	0.3611	0.0000	SURCHARGED
600 minute summer	6	360	104.510	0.339	1.9	0.3837	0.0000	SURCHARGED
600 minute summer	7	375	104.172	0.036	1.8	0.0000	0.0000	OK
600 minute summer	3	420	104.637	0.209	3.3	19.3964	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.9	0.251	0.022	0.2891	
600 minute summer	8	2.000	2	0.9	0.704	0.033	0.0284	
600 minute summer	2	1.001	3	2.3	0.422	0.065	0.5547	
600 minute summer	4	1.003	5	1.0	0.349	0.028	0.4704	
600 minute summer	9	3.000	5	0.9	0.455	0.062	0.2444	
600 minute summer	5	1.004	6	1.6	0.125	0.046	0.4621	
600 minute summer	10	4.000	11	0.5	0.194	0.015	1.0181	
600 minute summer	11	4.001	6	0.5	0.065	0.014	0.1834	
600 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	55.2
600 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 600 minute winter. 3480 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	330	104.686	0.021	0.8	1.6848	0.0000	OK
600 minute winter	8	300	104.817	0.017	0.7	0.0288	0.0000	OK
600 minute winter	2	450	104.655	0.147	1.9	0.2193	0.0000	OK
600 minute winter	4	375	104.474	0.197	0.9	0.2499	0.0000	OK
600 minute winter	9	315	104.603	0.023	0.7	0.0522	0.0000	OK
600 minute winter	5	375	104.474	0.250	1.6	0.3144	0.0000	SURCHARGED
600 minute winter	10	375	104.474	0.166	0.6	0.3124	0.0000	OK
600 minute winter	11	375	104.474	0.283	0.5	0.3198	0.0000	SURCHARGED
600 minute winter	6	375	104.474	0.303	1.8	0.3425	0.0000	SURCHARGED
600 minute winter	7	375	104.172	0.036	1.8	0.0000	0.0000	OK
600 minute winter	3	450	104.655	0.227	2.6	21.1256	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.8	0.250	0.019	0.3367	
600 minute winter	8	2.000	2	0.7	0.653	0.026	0.0411	
600 minute winter	2	1.001	3	1.8	0.403	0.052	0.6029	
600 minute winter	4	1.003	5	1.0	0.356	0.029	0.4532	
600 minute winter	9	3.000	5	0.7	0.424	0.048	0.1725	
600 minute winter	5	1.004	6	1.5	0.147	0.043	0.4621	
600 minute winter	10	4.000	11	0.5	0.194	0.014	0.9357	
600 minute winter	11	4.001	6	0.4	0.150	0.013	0.1834	
600 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	60.5
600 minute winter	3	Hydro-Brake®	4	0.8				

Results for 1 year 720 minute summer. 3600 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	390	104.687	0.022	0.9	1.7318	0.0000	OK
720 minute summer	8	375	104.818	0.018	0.8	0.0307	0.0000	OK
720 minute summer	2	495	104.626	0.118	2.1	0.1754	0.0000	OK
720 minute summer	4	420	104.462	0.185	0.9	0.2351	0.0000	OK
720 minute summer	9	375	104.604	0.024	0.8	0.0557	0.0000	OK
720 minute summer	5	420	104.462	0.238	1.6	0.2997	0.0000	SURCHARGED
720 minute summer	10	420	104.462	0.154	0.7	0.2904	0.0000	OK
720 minute summer	11	420	104.462	0.271	0.5	0.3067	0.0000	SURCHARGED
720 minute summer	6	420	104.462	0.291	1.8	0.3293	0.0000	SURCHARGED
720 minute summer	7	420	104.172	0.036	1.8	0.0000	0.0000	OK
720 minute summer	3	495	104.626	0.198	2.9	18.3858	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.8	0.252	0.020	0.2598	
720 minute summer	8	2.000	2	0.8	0.679	0.029	0.0213	
720 minute summer	2	1.001	3	2.0	0.352	0.058	0.5199	
720 minute summer	4	1.003	5	1.0	0.343	0.028	0.4421	
720 minute summer	9	3.000	5	0.8	0.441	0.055	0.1473	
720 minute summer	5	1.004	6	1.5	0.124	0.043	0.4621	
720 minute summer	10	4.000	11	0.5	0.194	0.015	0.9044	
720 minute summer	11	4.001	6	0.4	0.065	0.013	0.1834	
720 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	57.7
720 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 720 minute winter. 3600 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	390	104.685	0.020	0.7	1.5838	0.0000	OK
720 minute winter	8	345	104.816	0.016	0.6	0.0268	0.0000	OK
720 minute winter	2	525	104.649	0.141	1.7	0.2098	0.0000	OK
720 minute winter	4	450	104.429	0.152	0.9	0.1925	0.0000	OK
720 minute winter	9	360	104.601	0.021	0.6	0.0484	0.0000	OK
720 minute winter	5	450	104.429	0.205	1.6	0.2575	0.0000	OK
720 minute winter	10	450	104.429	0.121	0.5	0.2272	0.0000	OK
720 minute winter	11	450	104.429	0.238	0.5	0.2687	0.0000	SURCHARGED
720 minute winter	6	450	104.429	0.258	1.8	0.2913	0.0000	SURCHARGED
720 minute winter	7	450	104.172	0.036	1.8	0.0000	0.0000	OK
720 minute winter	3	525	104.649	0.221	2.3	20.5325	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.7	0.236	0.016	0.3211	
720 minute winter	8	2.000	2	0.6	0.624	0.022	0.0367	
720 minute winter	2	1.001	3	1.6	0.403	0.046	0.5888	
720 minute winter	4	1.003	5	1.0	0.352	0.028	0.3928	
720 minute winter	9	3.000	5	0.6	0.405	0.042	0.0742	
720 minute winter	5	1.004	6	1.5	0.147	0.043	0.4515	
720 minute winter	10	4.000	11	0.5	0.194	0.014	0.8080	
720 minute winter	11	4.001	6	0.4	0.150	0.012	0.1834	
720 minute winter	6	1.005	7	1.8	0.546	0.124	0.0171	64.4
720 minute winter	3	Hydro-Brake®	4	0.8				

Results for 1 year 960 minute summer. 3840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	104.686	0.021	0.8	1.6370	0.0000	OK
960 minute summer	8	495	104.817	0.017	0.7	0.0288	0.0000	OK
960 minute summer	2	630	104.624	0.116	1.8	0.1726	0.0000	OK
960 minute summer	4	540	104.412	0.135	0.9	0.1717	0.0000	OK
960 minute summer	9	495	104.603	0.023	0.7	0.0522	0.0000	OK
960 minute summer	5	540	104.412	0.188	1.6	0.2369	0.0000	OK
960 minute summer	10	540	104.412	0.104	0.6	0.1964	0.0000	OK
960 minute summer	11	540	104.412	0.221	0.5	0.2502	0.0000	OK
960 minute summer	6	540	104.412	0.241	1.8	0.2728	0.0000	SURCHARGED
960 minute summer	7	540	104.171	0.035	1.8	0.0000	0.0000	OK
960 minute summer	3	630	104.624	0.196	2.4	18.2096	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.7	0.237	0.018	0.2546	
960 minute summer	8	2.000	2	0.7	0.653	0.026	0.0201	
960 minute summer	2	1.001	3	1.7	0.352	0.050	0.5135	
960 minute summer	4	1.003	5	0.9	0.335	0.027	0.3574	
960 minute summer	9	3.000	5	0.7	0.424	0.048	0.0479	
960 minute summer	5	1.004	6	1.5	0.122	0.043	0.4373	
960 minute summer	10	4.000	11	0.5	0.194	0.015	0.7573	
960 minute summer	11	4.001	6	0.4	0.065	0.013	0.1830	
960 minute summer	6	1.005	7	1.8	0.544	0.123	0.0170	64.9
960 minute summer	3	Hydro-Brake®	4	0.8				

Results for 1 year 960 minute winter. 3840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	510	104.684	0.019	0.6	1.4704	0.0000	OK
960 minute winter	8	450	104.814	0.014	0.5	0.0245	0.0000	OK
960 minute winter	2	660	104.639	0.131	1.4	0.1946	0.0000	OK
960 minute winter	4	570	104.359	0.082	0.9	0.1041	0.0000	OK
960 minute winter	9	465	104.599	0.019	0.5	0.0443	0.0000	OK
960 minute winter	5	570	104.359	0.135	1.4	0.1698	0.0000	OK
960 minute winter	10	570	104.359	0.051	0.4	0.0959	0.0000	OK
960 minute winter	11	570	104.359	0.168	0.4	0.1899	0.0000	OK
960 minute winter	6	570	104.359	0.188	1.7	0.2125	0.0000	SURCHARGED
960 minute winter	7	570	104.171	0.035	1.7	0.0000	0.0000	OK
960 minute winter	3	660	104.639	0.211	1.8	19.5816	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.6	0.223	0.014	0.2934	
960 minute winter	8	2.000	2	0.5	0.591	0.018	0.0297	
960 minute winter	2	1.001	3	1.3	0.332	0.038	0.5606	
960 minute winter	4	1.003	5	0.9	0.345	0.027	0.2244	
960 minute winter	9	3.000	5	0.5	0.383	0.035	0.0378	
960 minute winter	5	1.004	6	1.4	0.147	0.040	0.3493	
960 minute winter	10	4.000	11	0.4	0.194	0.012	0.5064	
960 minute winter	11	4.001	6	0.4	0.150	0.011	0.1550	
960 minute winter	6	1.005	7	1.7	0.537	0.117	0.0165	70.9
960 minute winter	3	Hydro-Brake®	4	0.8				

Results for 1 year 1440 minute summer. 4320 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	104.684	0.018	0.6	1.4614	0.0000	OK
1440 minute summer	8	750	104.814	0.014	0.5	0.0245	0.0000	OK
1440 minute summer	2	900	104.604	0.096	1.4	0.1427	0.0000	OK
1440 minute summer	4	810	104.335	0.058	0.8	0.0732	0.0000	OK
1440 minute summer	9	750	104.599	0.019	0.5	0.0443	0.0000	OK
1440 minute summer	5	810	104.335	0.111	1.3	0.1390	0.0000	OK
1440 minute summer	10	810	104.335	0.026	0.4	0.0498	0.0000	OK
1440 minute summer	11	810	104.334	0.143	0.4	0.1622	0.0000	OK
1440 minute summer	6	810	104.334	0.163	1.7	0.1848	0.0000	SURCHARGED
1440 minute summer	7	810	104.170	0.034	1.6	0.0000	0.0000	OK
1440 minute summer	3	900	104.604	0.176	1.8	16.3394	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.6	0.238	0.014	0.2006	
1440 minute summer	8	2.000	2	0.5	0.591	0.018	0.0089	
1440 minute summer	2	1.001	3	1.3	0.283	0.038	0.4424	
1440 minute summer	4	1.003	5	0.9	0.322	0.025	0.1621	
1440 minute summer	9	3.000	5	0.5	0.383	0.035	0.0378	
1440 minute summer	5	1.004	6	1.3	0.125	0.038	0.2909	
1440 minute summer	10	4.000	11	0.4	0.085	0.012	0.3855	
1440 minute summer	11	4.001	6	0.4	0.023	0.011	0.1328	
1440 minute summer	6	1.005	7	1.6	0.532	0.113	0.0160	69.8
1440 minute summer	3	Hydro-Brake®	4	0.7				

Results for 1 year 1440 minute winter. 4320 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	810	104.681	0.016	0.4	1.2303	0.0000	OK
1440 minute winter	8	720	104.813	0.013	0.4	0.0220	0.0000	OK
1440 minute winter	2	930	104.613	0.105	1.0	0.1569	0.0000	OK
1440 minute winter	4	810	104.308	0.031	0.9	0.0392	0.0000	OK
1440 minute winter	9	720	104.597	0.017	0.4	0.0399	0.0000	OK
1440 minute winter	5	810	104.307	0.083	1.3	0.1049	0.0000	OK
1440 minute winter	10	660	104.323	0.015	0.3	0.0282	0.0000	OK
1440 minute winter	11	810	104.307	0.116	0.3	0.1315	0.0000	OK
1440 minute winter	6	810	104.307	0.136	1.6	0.1541	0.0000	OK
1440 minute winter	7	810	104.169	0.033	1.5	0.0000	0.0000	OK
1440 minute winter	3	930	104.613	0.185	1.4	17.2295	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.4	0.207	0.009	0.2257	
1440 minute winter	8	2.000	2	0.4	0.554	0.015	0.0139	
1440 minute winter	2	1.001	3	1.0	0.335	0.028	0.4769	
1440 minute winter	4	1.003	5	0.9	0.326	0.025	0.0984	
1440 minute winter	9	3.000	5	0.4	0.358	0.028	0.0324	
1440 minute winter	5	1.004	6	1.3	0.122	0.037	0.2224	
1440 minute winter	10	4.000	11	0.3	0.144	0.009	0.2867	
1440 minute winter	11	4.001	6	0.3	0.037	0.009	0.1057	
1440 minute winter	6	1.005	7	1.5	0.523	0.106	0.0153	80.4
1440 minute winter	3	Hydro-Brake®	4	0.8				

Results for 30 year 15 minute summer. 2895 minute analysis at 1 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	13	104.728	0.063	17.8	4.9955	0.0000	OK
15 minute summer	8	10	104.891	0.091	16.1	0.1552	0.0000	OK
15 minute summer	2	75	104.699	0.190	29.9	0.2836	0.0000	OK
15 minute summer	4	14	105.020	0.743	8.8	1.4198	0.0000	SURCHARGED
15 minute summer	9	18	105.001	0.421	19.9	6.0369	0.0000	SURCHARGED
15 minute summer	5	13	105.021	0.797	15.7	1.2832	0.0000	SURCHARGED
15 minute summer	10	11	105.040	0.732	13.9	1.3784	0.0000	SURCHARGED
15 minute summer	11	13	105.024	0.833	11.2	0.9418	0.0000	SURCHARGED
15 minute summer	6	13	105.022	0.851	11.0	0.9629	0.0000	SURCHARGED
15 minute summer	7	102	104.172	0.036	1.8	0.0000	0.0000	OK
15 minute summer	3	76	104.699	0.270	46.7	25.1394	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	7.4	0.470	0.175	0.4666	
15 minute summer	8	2.000	2	16.0	1.514	0.586	0.0979	
15 minute summer	2	1.001	3	29.3	1.389	0.847	0.6775	
15 minute summer	4	1.003	5	-4.8	0.363	-0.138	0.4704	
15 minute summer	9	3.000	5	13.2	0.845	0.912	0.5107	
15 minute summer	5	1.004	6	-8.9	0.375	-0.256	0.4621	
15 minute summer	10	4.000	11	11.2	0.519	0.325	1.0462	
15 minute summer	11	4.001	6	11.0	0.276	0.322	0.1834	
15 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	42.2
15 minute summer	3	Hydro-Brake®	4	0.9				

Results for 30 year 15 minute winter. 2895 minute analysis at 1 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	14	104.733	0.068	18.7	5.3887	0.0000	OK
15 minute winter	8	10	104.894	0.094	16.9	0.1602	0.0000	OK
15 minute winter	2	85	104.719	0.211	31.7	0.3147	0.0000	OK
15 minute winter	4	14	105.033	0.756	9.4	1.6309	0.0000	SURCHARGED
15 minute winter	9	19	105.018	0.438	22.8	7.3855	0.0000	SURCHARGED
15 minute winter	5	14	105.034	0.810	16.1	1.5338	0.0000	SURCHARGED
15 minute winter	10	11	105.055	0.747	14.6	1.4067	0.0000	SURCHARGED
15 minute winter	11	14	105.035	0.844	15.0	0.9546	0.0000	SURCHARGED
15 minute winter	6	14	105.034	0.863	15.3	0.9764	0.0000	SURCHARGED
15 minute winter	7	117	104.172	0.036	1.8	0.0000	0.0000	OK
15 minute winter	3	86	104.719	0.291	48.8	27.0832	0.0000	SURCHARGED

Link Event	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	8.6	0.450	0.203	0.5445	
15 minute winter	8	2.000	2	16.7	1.528	0.613	0.1040	
15 minute winter	2	1.001	3	30.8	1.362	0.891	0.7034	
15 minute winter	4	1.003	5	-5.2	0.364	-0.149	0.4704	
15 minute winter	9	3.000	5	10.9	0.863	0.756	0.5107	
15 minute winter	5	1.004	6	-13.5	0.381	-0.389	0.4621	
15 minute winter	10	4.000	11	15.0	0.533	0.435	1.0462	
15 minute winter	11	4.001	6	15.3	0.384	0.448	0.1834	
15 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	47.3
15 minute winter	3	Hydro-Brake®	4	0.9				

Results for 30 year 30 minute summer. 2910 minute analysis at 1 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	104	104.750	0.085	15.9	6.6904	0.0000	OK
30 minute summer	8	18	104.884	0.084	14.4	0.1438	0.0000	OK
30 minute summer	2	106	104.750	0.242	28.8	0.3597	0.0000	SURCHARGED
30 minute summer	4	22	105.031	0.754	9.1	1.6019	0.0000	SURCHARGED
30 minute summer	9	33	105.027	0.447	20.7	8.0487	0.0000	SURCHARGED
30 minute summer	5	21	105.031	0.807	13.0	1.4775	0.0000	SURCHARGED
30 minute summer	10	18	105.040	0.732	12.4	1.3786	0.0000	SURCHARGED
30 minute summer	11	21	105.033	0.841	13.2	0.9517	0.0000	SURCHARGED
30 minute summer	6	21	105.032	0.861	12.9	0.9733	0.0000	SURCHARGED
30 minute summer	7	143	104.172	0.036	1.8	0.0000	0.0000	OK
30 minute summer	3	107	104.750	0.322	43.7	29.8869	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	8.5	0.430	0.200	0.6302	
30 minute summer	8	2.000	2	14.4	1.474	0.530	0.0964	
30 minute summer	2	1.001	3	28.1	1.124	0.813	0.7126	
30 minute summer	4	1.003	5	-5.4	0.364	-0.156	0.4704	
30 minute summer	9	3.000	5	9.4	0.734	0.654	0.5107	
30 minute summer	5	1.004	6	-10.6	0.335	-0.308	0.4621	
30 minute summer	10	4.000	11	13.2	0.453	0.382	1.0462	
30 minute summer	11	4.001	6	12.9	0.324	0.378	0.1834	
30 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	54.9
30 minute summer	3	Hydro-Brake®	4	1.0				

Results for 30 year 30 minute winter. 2910 minute analysis at 1 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	118	104.777	0.112	14.4	8.8332	0.0000	OK
30 minute winter	8	17	104.879	0.079	13.0	0.1347	0.0000	OK
30 minute winter	2	120	104.777	0.269	27.4	0.4000	0.0000	SURCHARGED
30 minute winter	4	32	105.047	0.770	8.6	1.8816	0.0000	SURCHARGED
30 minute winter	9	32	105.047	0.467	20.2	9.6144	0.0000	SURCHARGED
30 minute winter	5	32	105.046	0.822	11.1	1.7702	0.0000	SURCHARGED
30 minute winter	10	21	105.049	0.741	11.2	1.3955	0.0000	SURCHARGED
30 minute winter	11	32	105.046	0.855	10.7	0.9673	0.0000	SURCHARGED
30 minute winter	6	32	105.046	0.875	10.3	0.9899	0.0000	SURCHARGED
30 minute winter	7	162	104.172	0.036	1.8	0.0000	0.0000	OK
30 minute winter	3	121	104.777	0.349	41.2	32.4098	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	9.0	0.400	0.214	0.7013	
30 minute winter	8	2.000	2	13.0	1.439	0.478	0.1030	
30 minute winter	2	1.001	3	26.9	1.059	0.778	0.7126	
30 minute winter	4	1.003	5	-5.2	0.364	-0.151	0.4704	
30 minute winter	9	3.000	5	8.8	0.745	0.609	0.5107	
30 minute winter	5	1.004	6	-8.6	0.328	-0.248	0.4621	
30 minute winter	10	4.000	11	10.7	0.469	0.310	1.0462	
30 minute winter	11	4.001	6	10.3	0.259	0.303	0.1834	
30 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	61.5
30 minute winter	3	Hydro-Brake®	4	1.0				

Results for 30 year 60 minute summer. 2940 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	143	104.802	0.137	11.8	10.8406	0.0000	OK
60 minute summer	8	32	104.870	0.070	10.7	0.1193	0.0000	OK
60 minute summer	2	144	104.802	0.294	23.2	0.4379	0.0000	SURCHARGED
60 minute summer	4	59	105.040	0.763	5.7	1.7543	0.0000	SURCHARGED
60 minute summer	9	57	105.041	0.461	17.5	9.1565	0.0000	SURCHARGED
60 minute summer	5	58	105.040	0.816	9.3	1.6452	0.0000	SURCHARGED
60 minute summer	10	58	105.040	0.732	9.2	1.3796	0.0000	SURCHARGED
60 minute summer	11	58	105.040	0.849	9.5	0.9603	0.0000	SURCHARGED
60 minute summer	6	58	105.040	0.869	9.3	0.9828	0.0000	SURCHARGED
60 minute summer	7	192	104.172	0.036	1.8	0.0000	0.0000	OK
60 minute summer	3	145	104.802	0.374	34.8	34.7712	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	7.9	0.375	0.186	0.7682	
60 minute summer	8	2.000	2	10.7	1.380	0.394	0.1008	
60 minute summer	2	1.001	3	22.4	0.810	0.649	0.7126	
60 minute summer	4	1.003	5	-2.9	0.364	-0.083	0.4704	
60 minute summer	9	3.000	5	-6.7	0.640	-0.464	0.5107	
60 minute summer	5	1.004	6	-7.5	0.312	-0.217	0.4621	
60 minute summer	10	4.000	11	9.5	0.402	0.275	1.0462	
60 minute summer	11	4.001	6	9.3	0.235	0.274	0.1834	
60 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	68.4
60 minute summer	3	Hydro-Brake®	4	1.0				

Results for 30 year 60 minute winter. 2940 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	160	104.836	0.170	9.5	13.4730	0.0000	OK
60 minute winter	8	32	104.862	0.062	8.6	0.1053	0.0000	OK
60 minute winter	2	161	104.835	0.327	20.3	0.4875	0.0000	SURCHARGED
60 minute winter	4	58	105.064	0.787	3.2	2.2660	0.0000	SURCHARGED
60 minute winter	9	60	105.066	0.486	14.4	11.0358	0.0000	SURCHARGED
60 minute winter	5	59	105.064	0.840	6.8	2.1217	0.0000	SURCHARGED
60 minute winter	10	57	105.065	0.757	7.4	1.4254	0.0000	SURCHARGED
60 minute winter	11	59	105.064	0.873	7.5	0.9877	0.0000	SURCHARGED
60 minute winter	6	59	105.064	0.893	7.4	1.0103	0.0000	SURCHARGED
60 minute winter	7	217	104.172	0.036	1.8	0.0000	0.0000	OK
60 minute winter	3	163	104.835	0.407	28.8	37.8671	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	7.4	0.367	0.175	0.8501	
60 minute winter	8	2.000	2	8.7	1.313	0.318	0.1073	
60 minute winter	2	1.001	3	18.6	0.864	0.538	0.7126	
60 minute winter	4	1.003	5	1.2	0.364	0.034	0.4704	
60 minute winter	9	3.000	5	-5.8	0.650	-0.401	0.5107	
60 minute winter	5	1.004	6	-5.5	0.297	-0.158	0.4621	
60 minute winter	10	4.000	11	7.5	0.413	0.217	1.0462	
60 minute winter	11	4.001	6	7.4	0.199	0.217	0.1834	
60 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	76.6
60 minute winter	3	Hydro-Brake®	4	1.1				

Results for 30 year 120 minute summer. 3000 minute analysis at 2 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	192	104.853	0.188	8.5	14.8717	0.0000	OK
120 minute summer	8	62	104.854	0.054	6.9	0.0917	0.0000	OK
120 minute summer	2	194	104.853	0.345	16.4	0.5138	0.0000	SURCHARGED
120 minute summer	4	90	105.040	0.763	2.2	1.7468	0.0000	SURCHARGED
120 minute summer	9	90	105.041	0.461	11.6	9.1254	0.0000	SURCHARGED
120 minute summer	5	90	105.040	0.816	5.1	1.6372	0.0000	SURCHARGED
120 minute summer	10	90	105.040	0.732	5.9	1.3784	0.0000	SURCHARGED
120 minute summer	11	90	105.040	0.849	5.8	0.9597	0.0000	SURCHARGED
120 minute summer	6	90	105.040	0.869	5.7	0.9823	0.0000	SURCHARGED
120 minute summer	7	254	104.172	0.036	1.8	0.0000	0.0000	OK
120 minute summer	3	196	104.853	0.425	23.0	39.5090	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	5.9	0.337	0.139	0.8878	
120 minute summer	8	2.000	2	6.9	1.206	0.254	0.1078	
120 minute summer	2	1.001	3	14.7	0.688	0.426	0.7126	
120 minute summer	4	1.003	5	1.2	0.364	0.034	0.4704	
120 minute summer	9	3.000	5	-4.7	0.579	-0.324	0.5107	
120 minute summer	5	1.004	6	-4.0	0.276	-0.115	0.4621	
120 minute summer	10	4.000	11	5.8	0.352	0.169	1.0462	
120 minute summer	11	4.001	6	5.7	0.183	0.169	0.1834	
120 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	82.5
120 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 120 minute winter. 3000 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	216	104.894	0.229	9.6	18.0896	0.0000	SURCHARGED
120 minute winter	8	216	104.894	0.094	5.3	0.1603	0.0000	OK
120 minute winter	2	218	104.894	0.386	13.3	0.5745	0.0000	SURCHARGED
120 minute winter	4	98	105.063	0.786	2.0	2.2406	0.0000	SURCHARGED
120 minute winter	9	98	105.065	0.485	8.2	10.9575	0.0000	SURCHARGED
120 minute winter	5	98	105.063	0.839	3.9	2.0987	0.0000	SURCHARGED
120 minute winter	10	96	105.063	0.755	4.6	1.4229	0.0000	SURCHARGED
120 minute winter	11	98	105.063	0.872	4.4	0.9865	0.0000	SURCHARGED
120 minute winter	6	98	105.063	0.892	4.3	1.0091	0.0000	SURCHARGED
120 minute winter	7	286	104.172	0.036	1.8	0.0000	0.0000	OK
120 minute winter	3	218	104.894	0.466	18.7	43.2940	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	4.9	0.347	0.116	0.9385	
120 minute winter	8	2.000	2	5.3	1.121	0.195	0.1357	
120 minute winter	2	1.001	3	12.1	0.734	0.351	0.7126	
120 minute winter	4	1.003	5	1.2	0.364	0.035	0.4704	
120 minute winter	9	3.000	5	3.3	0.573	0.228	0.5107	
120 minute winter	5	1.004	6	-2.5	0.248	-0.073	0.4621	
120 minute winter	10	4.000	11	4.4	0.341	0.128	1.0462	
120 minute winter	11	4.001	6	4.3	0.173	0.127	0.1834	
120 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	92.6
120 minute winter	3	Hydro-Brake®	4	1.1				

Results for 30 year 180 minute summer. 3060 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	236	104.882	0.217	7.8	17.1714	0.0000	OK
180 minute summer	8	236	104.882	0.082	5.1	0.1402	0.0000	OK
180 minute summer	2	236	104.882	0.374	12.7	0.5571	0.0000	SURCHARGED
180 minute summer	4	128	105.034	0.757	1.9	1.6469	0.0000	SURCHARGED
180 minute summer	9	124	105.035	0.455	8.2	8.6986	0.0000	SURCHARGED
180 minute summer	5	128	105.034	0.810	3.3	1.5300	0.0000	SURCHARGED
180 minute summer	10	128	105.034	0.726	4.4	1.3679	0.0000	SURCHARGED
180 minute summer	11	128	105.034	0.843	4.2	0.9534	0.0000	SURCHARGED
180 minute summer	6	128	105.034	0.863	4.1	0.9760	0.0000	SURCHARGED
180 minute summer	7	304	104.172	0.036	1.8	0.0000	0.0000	OK
180 minute summer	3	236	104.882	0.454	17.9	42.2137	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	4.6	0.319	0.108	0.9332	
180 minute summer	8	2.000	2	5.1	1.092	0.187	0.1277	
180 minute summer	2	1.001	3	11.6	0.642	0.334	0.7126	
180 minute summer	4	1.003	5	1.2	0.364	0.035	0.4704	
180 minute summer	9	3.000	5	-3.1	0.547	-0.212	0.5107	
180 minute summer	5	1.004	6	-2.3	0.267	-0.068	0.4621	
180 minute summer	10	4.000	11	4.2	0.330	0.123	1.0462	
180 minute summer	11	4.001	6	4.1	0.176	0.121	0.1834	
180 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	91.2
180 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 180 minute winter. 3060 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	260	104.926	0.261	7.6	20.5951	0.0000	SURCHARGED
180 minute winter	8	252	104.926	0.126	3.9	0.2142	0.0000	OK
180 minute winter	2	264	104.926	0.418	9.9	0.6217	0.0000	SURCHARGED
180 minute winter	4	136	105.054	0.777	1.5	2.0431	0.0000	SURCHARGED
180 minute winter	9	136	105.056	0.476	5.6	10.2568	0.0000	SURCHARGED
180 minute winter	5	136	105.054	0.830	3.0	1.9262	0.0000	SURCHARGED
180 minute winter	10	136	105.055	0.746	3.4	1.4063	0.0000	SURCHARGED
180 minute winter	11	136	105.054	0.863	3.3	0.9765	0.0000	SURCHARGED
180 minute winter	6	136	105.054	0.883	3.2	0.9991	0.0000	SURCHARGED
180 minute winter	7	340	104.172	0.036	1.8	0.0000	0.0000	OK
180 minute winter	3	260	104.926	0.498	14.0	46.2507	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	3.7	0.322	0.087	0.9385	
180 minute winter	8	2.000	2	3.9	1.009	0.143	0.1549	
180 minute winter	2	1.001	3	9.0	0.651	0.260	0.7126	
180 minute winter	4	1.003	5	1.3	0.364	0.036	0.4704	
180 minute winter	9	3.000	5	2.5	0.531	0.170	0.5107	
180 minute winter	5	1.004	6	1.9	0.202	0.054	0.4621	
180 minute winter	10	4.000	11	3.3	0.291	0.095	1.0462	
180 minute winter	11	4.001	6	3.2	0.080	0.094	0.1834	
180 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	102.3
180 minute winter	3	Hydro-Brake®	4	1.1				

Results for 30 year 240 minute summer. 3120 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	272	104.901	0.236	7.2	18.6367	0.0000	SURCHARGED
240 minute summer	8	276	104.901	0.101	4.2	0.1719	0.0000	OK
240 minute summer	2	272	104.901	0.393	10.4	0.5848	0.0000	SURCHARGED
240 minute summer	4	160	105.027	0.750	1.6	1.5313	0.0000	SURCHARGED
240 minute summer	9	160	105.029	0.449	6.8	8.1720	0.0000	SURCHARGED
240 minute summer	5	160	105.027	0.803	3.1	1.3965	0.0000	SURCHARGED
240 minute summer	10	160	105.027	0.719	3.7	1.3549	0.0000	SURCHARGED
240 minute summer	11	160	105.027	0.836	3.6	0.9457	0.0000	SURCHARGED
240 minute summer	6	160	105.027	0.856	3.6	0.9683	0.0000	SURCHARGED
240 minute summer	7	344	104.172	0.036	1.8	0.0000	0.0000	OK
240 minute summer	3	272	104.901	0.473	14.9	43.9451	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	3.7	0.297	0.088	0.9385	
240 minute summer	8	2.000	2	4.2	0.983	0.154	0.1402	
240 minute summer	2	1.001	3	9.5	0.592	0.274	0.7126	
240 minute summer	4	1.003	5	1.2	0.364	0.036	0.4704	
240 minute summer	9	3.000	5	-2.8	0.523	-0.196	0.5107	
240 minute summer	5	1.004	6	-2.0	0.234	-0.058	0.4621	
240 minute summer	10	4.000	11	3.6	0.306	0.103	1.0462	
240 minute summer	11	4.001	6	3.6	0.184	0.106	0.1834	
240 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	97.5
240 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 240 minute winter. 3120 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	288	104.947	0.282	6.8	22.2521	0.0000	SURCHARGED
240 minute winter	8	292	104.946	0.146	3.2	0.2499	0.0000	OK
240 minute winter	2	288	104.947	0.439	7.6	0.6530	0.0000	SURCHARGED
240 minute winter	4	176	105.042	0.765	1.4	1.7945	0.0000	SURCHARGED
240 minute winter	9	176	105.043	0.463	4.1	9.3081	0.0000	SURCHARGED
240 minute winter	5	176	105.042	0.818	2.7	1.6872	0.0000	SURCHARGED
240 minute winter	10	176	105.042	0.734	2.7	1.3831	0.0000	SURCHARGED
240 minute winter	11	176	105.042	0.851	2.6	0.9626	0.0000	SURCHARGED
240 minute winter	6	176	105.042	0.871	2.5	0.9852	0.0000	SURCHARGED
240 minute winter	7	92	104.172	0.036	1.8	0.0000	0.0000	OK
240 minute winter	3	292	104.947	0.519	11.1	48.1970	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	-3.3	0.309	-0.079	0.9385	
240 minute winter	8	2.000	2	3.2	0.943	0.117	0.1631	
240 minute winter	2	1.001	3	6.9	0.595	0.200	0.7126	
240 minute winter	4	1.003	5	1.3	0.364	0.037	0.4704	
240 minute winter	9	3.000	5	2.1	0.523	0.143	0.5107	
240 minute winter	5	1.004	6	1.8	0.245	0.052	0.4621	
240 minute winter	10	4.000	11	2.6	0.293	0.076	1.0462	
240 minute winter	11	4.001	6	2.5	0.122	0.075	0.1834	
240 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	109.3
240 minute winter	3	Hydro-Brake®	4	1.2				

Results for 30 year 360 minute summer. 3240 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	360	104.921	0.256	5.3	20.2141	0.0000	SURCHARGED
360 minute summer	8	360	104.921	0.121	3.2	0.2062	0.0000	OK
360 minute summer	2	360	104.921	0.413	6.7	0.6146	0.0000	SURCHARGED
360 minute summer	4	224	105.011	0.734	1.4	1.2888	0.0000	SURCHARGED
360 minute summer	9	224	105.012	0.432	4.5	6.8807	0.0000	SURCHARGED
360 minute summer	5	224	105.011	0.787	2.6	1.0747	0.0000	SURCHARGED
360 minute summer	10	224	105.011	0.703	2.7	1.3237	0.0000	SURCHARGED
360 minute summer	11	224	105.011	0.820	2.7	0.9269	0.0000	SURCHARGED
360 minute summer	6	224	105.011	0.840	2.6	0.9495	0.0000	SURCHARGED
360 minute summer	7	432	104.172	0.036	1.8	0.0000	0.0000	OK
360 minute summer	3	360	104.921	0.493	10.2	45.7998	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	2.3	0.269	0.055	0.9385	
360 minute summer	8	2.000	2	3.2	0.921	0.117	0.1524	
360 minute summer	2	1.001	3	6.0	0.562	0.175	0.7126	
360 minute summer	4	1.003	5	1.2	0.364	0.036	0.4704	
360 minute summer	9	3.000	5	1.9	0.490	0.129	0.5107	
360 minute summer	5	1.004	6	1.8	0.151	0.051	0.4621	
360 minute summer	10	4.000	11	2.7	0.187	0.077	1.0462	
360 minute summer	11	4.001	6	2.6	0.066	0.077	0.1834	
360 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	106.7
360 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 360 minute winter. 3240 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	368	104.977	0.311	5.2	24.6197	0.0000	SURCHARGED
360 minute winter	8	368	104.977	0.176	2.3	0.3012	0.0000	SURCHARGED
360 minute winter	2	368	104.977	0.468	5.5	0.6975	0.0000	SURCHARGED
360 minute winter	4	248	105.020	0.743	1.2	1.4256	0.0000	SURCHARGED
360 minute winter	9	248	105.021	0.441	2.9	7.6230	0.0000	SURCHARGED
360 minute winter	5	248	105.020	0.796	2.3	1.2641	0.0000	SURCHARGED
360 minute winter	10	248	105.020	0.712	2.0	1.3422	0.0000	SURCHARGED
360 minute winter	11	248	105.020	0.829	2.0	0.9380	0.0000	SURCHARGED
360 minute winter	6	248	105.020	0.849	2.1	0.9606	0.0000	SURCHARGED
360 minute winter	7	472	104.172	0.036	1.8	0.0000	0.0000	OK
360 minute winter	3	368	104.977	0.548	8.0	50.9813	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	-2.7	0.279	-0.063	0.9385	
360 minute winter	8	2.000	2	2.3	0.859	0.084	0.1636	
360 minute winter	2	1.001	3	5.0	0.510	0.143	0.7126	
360 minute winter	4	1.003	5	1.3	0.364	0.037	0.4704	
360 minute winter	9	3.000	5	1.6	0.492	0.109	0.5107	
360 minute winter	5	1.004	6	1.7	0.173	0.050	0.4621	
360 minute winter	10	4.000	11	2.0	0.241	0.058	1.0462	
360 minute winter	11	4.001	6	2.0	0.138	0.059	0.1834	
360 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	120.4
360 minute winter	3	Hydro-Brake®	4	1.2				

Results for 30 year 480 minute summer. 3360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	456	104.924	0.259	4.8	20.4579	0.0000	SURCHARGED
480 minute summer	8	456	104.924	0.124	2.5	0.2114	0.0000	OK
480 minute summer	2	456	104.924	0.416	5.9	0.6191	0.0000	SURCHARGED
480 minute summer	4	288	104.996	0.719	1.2	1.1154	0.0000	SURCHARGED
480 minute summer	9	296	104.997	0.417	3.1	5.7359	0.0000	SURCHARGED
480 minute summer	5	288	104.996	0.772	2.3	0.9706	0.0000	SURCHARGED
480 minute summer	10	288	104.996	0.688	2.1	1.2955	0.0000	SURCHARGED
480 minute summer	11	288	104.996	0.805	2.1	0.9099	0.0000	SURCHARGED
480 minute summer	6	288	104.996	0.825	2.1	0.9325	0.0000	SURCHARGED
480 minute summer	7	520	104.172	0.036	1.8	0.0000	0.0000	OK
480 minute summer	3	456	104.924	0.496	9.1	46.0848	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	-2.1	0.249	-0.051	0.9385	
480 minute summer	8	2.000	2	2.5	0.830	0.092	0.1541	
480 minute summer	2	1.001	3	5.6	0.489	0.163	0.7126	
480 minute summer	4	1.003	5	1.3	0.364	0.036	0.4704	
480 minute summer	9	3.000	5	1.6	0.492	0.110	0.5107	
480 minute summer	5	1.004	6	1.7	0.128	0.050	0.4621	
480 minute summer	10	4.000	11	2.1	0.240	0.061	1.0462	
480 minute summer	11	4.001	6	2.1	0.053	0.062	0.1834	
480 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	114.3
480 minute summer	3	Hydro-Brake®	4	1.2				

Results for 30 year 480 minute winter. 3360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	472	104.985	0.319	3.8	25.2516	0.0000	SURCHARGED
480 minute winter	8	472	104.985	0.184	1.8	0.3149	0.0000	SURCHARGED
480 minute winter	2	472	104.985	0.476	4.4	0.7095	0.0000	SURCHARGED
480 minute winter	4	312	104.996	0.719	1.2	1.1198	0.0000	SURCHARGED
480 minute winter	9	320	104.997	0.417	1.9	5.7496	0.0000	SURCHARGED
480 minute winter	5	312	104.996	0.772	2.1	0.9711	0.0000	SURCHARGED
480 minute winter	10	312	104.996	0.688	1.6	1.2962	0.0000	SURCHARGED
480 minute winter	11	312	104.996	0.805	1.6	0.9104	0.0000	SURCHARGED
480 minute winter	6	312	104.996	0.825	2.0	0.9330	0.0000	SURCHARGED
480 minute winter	7	192	104.172	0.036	1.8	0.0000	0.0000	OK
480 minute winter	3	472	104.984	0.556	6.5	51.7233	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	-1.8	0.256	-0.042	0.9385	
480 minute winter	8	2.000	2	1.8	0.800	0.066	0.1636	
480 minute winter	2	1.001	3	4.0	0.482	0.117	0.7126	
480 minute winter	4	1.003	5	1.3	0.364	0.038	0.4704	
480 minute winter	9	3.000	5	1.4	0.479	0.096	0.5107	
480 minute winter	5	1.004	6	1.7	0.231	0.049	0.4621	
480 minute winter	10	4.000	11	1.6	0.232	0.045	1.0462	
480 minute winter	11	4.001	6	1.5	0.040	0.045	0.1834	
480 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	128.1
480 minute winter	3	Hydro-Brake®	4	1.2				

Results for 30 year 600 minute summer. 3480 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	510	104.915	0.250	3.9	19.7520	0.0000	SURCHARGED
600 minute summer	8	510	104.915	0.115	2.0	0.1961	0.0000	OK
600 minute summer	2	510	104.915	0.407	5.1	0.6059	0.0000	SURCHARGED
600 minute summer	4	360	104.974	0.697	1.1	0.9424	0.0000	SURCHARGED
600 minute summer	9	360	104.975	0.395	2.0	4.0536	0.0000	SURCHARGED
600 minute summer	5	360	104.974	0.750	2.1	0.9435	0.0000	SURCHARGED
600 minute summer	10	360	104.974	0.666	1.7	1.2549	0.0000	SURCHARGED
600 minute summer	11	360	104.974	0.783	1.7	0.8856	0.0000	SURCHARGED
600 minute summer	6	360	104.974	0.803	2.0	0.9082	0.0000	SURCHARGED
600 minute summer	7	615	104.172	0.036	1.8	0.0000	0.0000	OK
600 minute summer	3	510	104.915	0.487	7.4	45.2542	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	1.9	0.238	0.045	0.9385	
600 minute summer	8	2.000	2	2.0	0.783	0.073	0.1491	
600 minute summer	2	1.001	3	4.6	0.455	0.134	0.7126	
600 minute summer	4	1.003	5	1.2	0.363	0.036	0.4704	
600 minute summer	9	3.000	5	1.5	0.468	0.101	0.5107	
600 minute summer	5	1.004	6	1.7	0.128	0.048	0.4621	
600 minute summer	10	4.000	11	1.7	0.143	0.049	1.0462	
600 minute summer	11	4.001	6	1.7	0.043	0.050	0.1834	
600 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	119.3
600 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 600 minute winter. 3480 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	570	104.982	0.317	3.0	25.0686	0.0000	SURCHARGED
600 minute winter	8	570	104.982	0.182	1.5	0.3109	0.0000	SURCHARGED
600 minute winter	2	570	104.982	0.474	3.4	0.7060	0.0000	SURCHARGED
600 minute winter	4	375	104.974	0.697	1.2	0.9413	0.0000	SURCHARGED
600 minute winter	9	390	104.975	0.395	1.6	4.0539	0.0000	SURCHARGED
600 minute winter	5	375	104.974	0.750	2.1	0.9433	0.0000	SURCHARGED
600 minute winter	10	375	104.974	0.666	1.3	1.2546	0.0000	SURCHARGED
600 minute winter	11	375	104.974	0.783	1.3	0.8854	0.0000	SURCHARGED
600 minute winter	6	375	104.974	0.803	2.0	0.9080	0.0000	SURCHARGED
600 minute winter	7	645	104.172	0.036	1.8	0.0000	0.0000	OK
600 minute winter	3	570	104.982	0.554	4.6	51.5076	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	-1.4	0.243	-0.032	0.9385	
600 minute winter	8	2.000	2	1.5	0.726	0.055	0.1636	
600 minute winter	2	1.001	3	3.1	0.467	0.090	0.7126	
600 minute winter	4	1.003	5	1.3	0.363	0.038	0.4704	
600 minute winter	9	3.000	5	1.3	0.455	0.089	0.5107	
600 minute winter	5	1.004	6	1.6	0.128	0.048	0.4621	
600 minute winter	10	4.000	11	1.3	0.158	0.037	1.0462	
600 minute winter	11	4.001	6	1.3	0.037	0.037	0.1834	
600 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	134.6
600 minute winter	3	Hydro-Brake®	4	1.2				

Results for 30 year 720 minute summer. 3600 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	570	104.912	0.247	3.5	19.5330	0.0000	SURCHARGED
720 minute summer	8	570	104.912	0.112	1.8	0.1914	0.0000	OK
720 minute summer	2	570	104.912	0.404	3.8	0.6017	0.0000	SURCHARGED
720 minute summer	4	420	104.963	0.686	1.1	0.8879	0.0000	SURCHARGED
720 minute summer	9	420	104.964	0.384	1.8	3.1979	0.0000	SURCHARGED
720 minute summer	5	420	104.963	0.739	2.1	0.9296	0.0000	SURCHARGED
720 minute summer	10	420	104.963	0.655	1.5	1.2341	0.0000	SURCHARGED
720 minute summer	11	420	104.963	0.772	1.4	0.8731	0.0000	SURCHARGED
720 minute summer	6	420	104.963	0.792	2.0	0.8957	0.0000	SURCHARGED
720 minute summer	7	330	104.172	0.036	1.8	0.0000	0.0000	OK
720 minute summer	3	570	104.912	0.484	5.1	44.9965	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	-1.5	0.228	-0.036	0.9385	
720 minute summer	8	2.000	2	1.8	0.765	0.066	0.1474	
720 minute summer	2	1.001	3	3.4	0.455	0.099	0.7126	
720 minute summer	4	1.003	5	1.2	0.363	0.035	0.4704	
720 minute summer	9	3.000	5	1.4	0.468	0.094	0.5107	
720 minute summer	5	1.004	6	1.7	0.128	0.049	0.4621	
720 minute summer	10	4.000	11	1.4	0.123	0.041	1.0462	
720 minute summer	11	4.001	6	1.4	0.034	0.040	0.1834	
720 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	124.9
720 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 720 minute winter. 3600 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	645	104.972	0.307	2.6	24.2266	0.0000	SURCHARGED
720 minute winter	8	645	104.972	0.172	1.3	0.2928	0.0000	SURCHARGED
720 minute winter	2	645	104.972	0.463	3.1	0.6901	0.0000	SURCHARGED
720 minute winter	4	435	104.952	0.675	1.2	0.8571	0.0000	SURCHARGED
720 minute winter	9	450	104.953	0.373	1.4	2.3565	0.0000	SURCHARGED
720 minute winter	5	435	104.952	0.728	1.9	0.9158	0.0000	SURCHARGED
720 minute winter	10	435	104.952	0.644	1.2	1.2133	0.0000	SURCHARGED
720 minute winter	11	435	104.952	0.761	1.1	0.8606	0.0000	SURCHARGED
720 minute winter	6	435	104.952	0.781	1.9	0.8832	0.0000	SURCHARGED
720 minute winter	7	735	104.172	0.036	1.8	0.0000	0.0000	OK
720 minute winter	3	645	104.972	0.543	4.2	50.5169	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	1.2	0.241	0.028	0.9385	
720 minute winter	8	2.000	2	1.3	0.724	0.048	0.1636	
720 minute winter	2	1.001	3	2.8	0.434	0.082	0.7126	
720 minute winter	4	1.003	5	1.3	0.364	0.037	0.4704	
720 minute winter	9	3.000	5	1.2	0.440	0.081	0.5107	
720 minute winter	5	1.004	6	1.6	0.147	0.047	0.4621	
720 minute winter	10	4.000	11	1.1	0.194	0.033	1.0462	
720 minute winter	11	4.001	6	1.1	0.150	0.032	0.1834	
720 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	138.9
720 minute winter	3	Hydro-Brake®	4	1.2				

Results for 30 year 960 minute summer. 3840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	705	104.897	0.232	3.4	18.3564	0.0000	SURCHARGED
960 minute summer	8	705	104.897	0.097	1.5	0.1660	0.0000	OK
960 minute summer	2	705	104.897	0.389	3.3	0.5796	0.0000	SURCHARGED
960 minute summer	4	540	104.936	0.659	1.1	0.8368	0.0000	SURCHARGED
960 minute summer	9	540	104.938	0.358	1.5	1.3080	0.0000	SURCHARGED
960 minute summer	5	540	104.936	0.712	2.0	0.8962	0.0000	SURCHARGED
960 minute summer	10	540	104.936	0.628	1.2	1.1840	0.0000	SURCHARGED
960 minute summer	11	540	104.936	0.745	1.1	0.8430	0.0000	SURCHARGED
960 minute summer	6	540	104.936	0.765	2.0	0.8656	0.0000	SURCHARGED
960 minute summer	7	780	104.172	0.036	1.8	0.0000	0.0000	OK
960 minute summer	3	705	104.897	0.469	4.4	43.6139	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	-1.8	0.234	-0.042	0.9385	
960 minute summer	8	2.000	2	1.5	0.725	0.055	0.1379	
960 minute summer	2	1.001	3	3.0	0.426	0.088	0.7126	
960 minute summer	4	1.003	5	1.2	0.364	0.034	0.4704	
960 minute summer	9	3.000	5	1.2	0.439	0.085	0.5107	
960 minute summer	5	1.004	6	1.6	0.128	0.046	0.4621	
960 minute summer	10	4.000	11	1.1	0.194	0.031	1.0462	
960 minute summer	11	4.001	6	1.1	0.065	0.031	0.1834	
960 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	130.7
960 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 960 minute winter. 3840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	750	104.951	0.285	2.1	22.5629	0.0000	SURCHARGED
960 minute winter	8	750	104.951	0.150	1.1	0.2568	0.0000	SURCHARGED
960 minute winter	2	750	104.950	0.442	2.7	0.6588	0.0000	SURCHARGED
960 minute winter	4	540	104.913	0.636	1.2	0.8066	0.0000	SURCHARGED
960 minute winter	9	540	104.914	0.334	1.1	0.7704	0.0000	SURCHARGED
960 minute winter	5	540	104.913	0.689	1.7	0.8663	0.0000	SURCHARGED
960 minute winter	10	540	104.913	0.605	0.9	1.1392	0.0000	SURCHARGED
960 minute winter	11	540	104.913	0.722	0.9	0.8161	0.0000	SURCHARGED
960 minute winter	6	540	104.913	0.742	1.9	0.8387	0.0000	SURCHARGED
960 minute winter	7	885	104.172	0.036	1.8	0.0000	0.0000	OK
960 minute winter	3	750	104.950	0.522	3.6	48.5601	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	1.1	0.232	0.025	0.9385	
960 minute winter	8	2.000	2	1.1	0.678	0.040	0.1636	
960 minute winter	2	1.001	3	2.5	0.403	0.071	0.7126	
960 minute winter	4	1.003	5	1.3	0.364	0.036	0.4704	
960 minute winter	9	3.000	5	1.0	0.439	0.070	0.5107	
960 minute winter	5	1.004	6	1.5	0.147	0.044	0.4621	
960 minute winter	10	4.000	11	0.9	0.194	0.025	1.0462	
960 minute winter	11	4.001	6	0.8	0.150	0.025	0.1834	
960 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	148.4
960 minute winter	3	Hydro-Brake®	4	1.2				

Results for 30 year 1440 minute summer. 4320 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	990	104.859	0.194	1.9	15.3052	0.0000	OK
1440 minute summer	8	990	104.859	0.059	1.0	0.1001	0.0000	OK
1440 minute summer	2	990	104.859	0.351	2.6	0.5221	0.0000	SURCHARGED
1440 minute summer	4	810	104.808	0.531	1.1	0.6739	0.0000	SURCHARGED
1440 minute summer	9	810	104.809	0.229	1.0	0.5277	0.0000	SURCHARGED
1440 minute summer	5	810	104.808	0.584	1.8	0.7347	0.0000	SURCHARGED
1440 minute summer	10	810	104.808	0.500	0.9	0.9421	0.0000	SURCHARGED
1440 minute summer	11	810	104.808	0.617	0.8	0.6978	0.0000	SURCHARGED
1440 minute summer	6	810	104.808	0.637	1.9	0.7204	0.0000	SURCHARGED
1440 minute summer	7	1050	104.172	0.036	1.8	0.0000	0.0000	OK
1440 minute summer	3	990	104.859	0.431	3.5	40.0257	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	1.0	0.208	0.025	0.8983	
1440 minute summer	8	2.000	2	1.0	0.653	0.037	0.1114	
1440 minute summer	2	1.001	3	2.4	0.365	0.070	0.7126	
1440 minute summer	4	1.003	5	1.2	0.362	0.033	0.4704	
1440 minute summer	9	3.000	5	0.9	0.423	0.062	0.5107	
1440 minute summer	5	1.004	6	1.6	0.128	0.045	0.4621	
1440 minute summer	10	4.000	11	0.8	0.129	0.023	1.0462	
1440 minute summer	11	4.001	6	0.7	0.040	0.021	0.1834	
1440 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	141.9
1440 minute summer	3	Hydro-Brake®	4	1.1				

Results for 30 year 1440 minute winter. 4320 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	1050	104.900	0.235	1.3	18.5473	0.0000	SURCHARGED
1440 minute winter	8	1050	104.900	0.100	0.8	0.1701	0.0000	OK
1440 minute winter	2	1050	104.900	0.392	2.0	0.5832	0.0000	SURCHARGED
1440 minute winter	4	930	104.820	0.543	1.1	0.6894	0.0000	SURCHARGED
1440 minute winter	9	930	104.821	0.240	0.8	0.5553	0.0000	SURCHARGED
1440 minute winter	5	930	104.820	0.596	1.7	0.7501	0.0000	SURCHARGED
1440 minute winter	10	930	104.820	0.512	0.7	0.9649	0.0000	SURCHARGED
1440 minute winter	11	930	104.820	0.629	0.7	0.7116	0.0000	SURCHARGED
1440 minute winter	6	930	104.820	0.649	1.9	0.7342	0.0000	SURCHARGED
1440 minute winter	7	660	104.172	0.036	1.8	0.0000	0.0000	OK
1440 minute winter	3	1050	104.900	0.472	2.7	43.8383	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.8	0.212	0.019	0.9385	
1440 minute winter	8	2.000	2	0.8	0.623	0.029	0.1395	
1440 minute winter	2	1.001	3	1.9	0.344	0.054	0.7126	
1440 minute winter	4	1.003	5	1.2	0.363	0.035	0.4704	
1440 minute winter	9	3.000	5	0.8	0.404	0.055	0.5107	
1440 minute winter	5	1.004	6	1.5	0.128	0.044	0.4621	
1440 minute winter	10	4.000	11	0.7	0.192	0.019	1.0462	
1440 minute winter	11	4.001	6	0.6	0.061	0.018	0.1834	
1440 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	157.6
1440 minute winter	3	Hydro-Brake®	4	1.1				

Results for 100 year +40% CC 15 minute summer. 2895 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	150	104.838	0.173	34.8	13.6782	0.0000	OK
15 minute summer	8	11	105.076	0.276	29.3	0.4705	0.0000	SURCHARGED
15 minute summer	2	151	104.838	0.330	46.7	0.4914	0.0000	SURCHARGED
15 minute summer	4	14	105.125	0.848	16.4	4.0372	0.0000	SURCHARGED
15 minute summer	9	21	105.105	0.525	37.5	14.0894	0.0000	SURCHARGED
15 minute summer	5	15	105.125	0.901	25.8	3.2912	0.0000	SURCHARGED
15 minute summer	10	11	105.187	0.879	25.2	1.6561	0.0000	FLOOD RISK
15 minute summer	11	12	105.136	0.945	24.2	1.0683	0.0000	SURCHARGED
15 minute summer	6	15	105.126	0.955	23.5	1.0796	0.0000	SURCHARGED
15 minute summer	7	207	104.172	0.036	1.8	0.0000	0.0000	OK
15 minute summer	3	152	104.838	0.410	74.6	38.1087	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	11.1	0.301	0.262	0.8560	
15 minute summer	8	2.000	2	27.6	1.578	1.014	0.1636	
15 minute summer	2	1.001	3	43.6	1.454	1.263	0.7126	
15 minute summer	4	1.003	5	-9.1	0.364	-0.262	0.4704	
15 minute summer	9	3.000	5	10.9	0.869	0.752	0.5107	
15 minute summer	5	1.004	6	-21.0	-0.527	-0.606	0.4621	
15 minute summer	10	4.000	11	24.2	0.610	0.703	1.0462	
15 minute summer	11	4.001	6	23.5	0.592	0.691	0.1834	
15 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	76.7
15 minute summer	3	Hydro-Brake®	4	1.1				

Results for 100 year +40% CC 15 minute winter. 2895 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	173	104.875	0.210	37.7	16.5658	0.0000	OK
15 minute winter	8	11	105.121	0.321	30.8	0.5473	0.0000	SURCHARGED
15 minute winter	2	174	104.875	0.367	47.1	0.5458	0.0000	SURCHARGED
15 minute winter	4	15	105.149	0.872	15.6	4.9368	0.0000	SURCHARGED
15 minute winter	9	22	105.131	0.551	39.4	16.0274	0.0000	FLOOD RISK
15 minute winter	5	15	105.149	0.925	26.6	3.7612	0.0000	SURCHARGED
15 minute winter	10	11	105.212	0.904	26.5	1.7030	0.0000	FLOOD RISK
15 minute winter	11	12	105.155	0.964	24.6	1.0906	0.0000	SURCHARGED
15 minute winter	6	15	105.149	0.978	24.1	1.1063	0.0000	SURCHARGED
15 minute winter	7	15	104.172	0.036	1.8	0.0000	0.0000	OK
15 minute winter	3	175	104.875	0.446	76.0	41.5009	0.0000	SURCHARGED

Link Event	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	8.3	0.214	0.196	0.9241	
15 minute winter	8	2.000	2	28.9	1.641	1.060	0.1636	
15 minute winter	2	1.001	3	42.3	1.441	1.225	0.7126	
15 minute winter	4	1.003	5	-8.1	0.364	-0.234	0.4704	
15 minute winter	9	3.000	5	13.8	0.851	0.953	0.5107	
15 minute winter	5	1.004	6	-21.8	-0.549	-0.631	0.4621	
15 minute winter	10	4.000	11	24.6	0.618	0.713	1.0462	
15 minute winter	11	4.001	6	24.1	0.607	0.709	0.1834	
15 minute winter	6	1.005	7	1.8	0.548	0.126	0.0174	85.9
15 minute winter	3	Hydro-Brake®	4	1.1				

Results for 100 year +40% CC 30 minute summer. 2910 minute analysis at 1 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	217	104.929	0.264	34.3	20.8693	0.0000	SURCHARGED
30 minute summer	8	18	105.041	0.241	26.4	0.4116	0.0000	SURCHARGED
30 minute summer	2	219	104.929	0.421	44.9	0.6270	0.0000	SURCHARGED
30 minute summer	4	33	105.156	0.879	13.5	5.2119	0.0000	SURCHARGED
30 minute summer	9	33	105.158	0.578	34.7	18.1400	0.0000	FLOOD RISK
30 minute summer	5	33	105.156	0.932	23.3	3.8999	0.0000	SURCHARGED
30 minute summer	10	19	105.193	0.885	22.7	1.6674	0.0000	FLOOD RISK
30 minute summer	11	33	105.156	0.965	21.8	1.0910	0.0000	SURCHARGED
30 minute summer	6	33	105.156	0.985	21.3	1.1136	0.0000	SURCHARGED
30 minute summer	7	33	104.172	0.036	1.8	0.0000	0.0000	OK
30 minute summer	3	214	104.929	0.501	67.5	46.5718	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	7.8	0.284	0.185	0.9385	
30 minute summer	8	2.000	2	25.5	1.505	0.937	0.1636	
30 minute summer	2	1.001	3	39.4	1.102	1.140	0.7126	
30 minute summer	4	1.003	5	-7.2	0.364	-0.207	0.4704	
30 minute summer	9	3.000	5	-8.1	0.726	-0.561	0.5107	
30 minute summer	5	1.004	6	-18.9	-0.476	-0.547	0.4621	
30 minute summer	10	4.000	11	21.8	0.549	0.633	1.0462	
30 minute summer	11	4.001	6	21.3	0.535	0.625	0.1834	
30 minute summer	6	1.005	7	1.8	0.549	0.127	0.0174	100.7
30 minute summer	3	Hydro-Brake®	4	1.1				

Results for 100 year +40% CC 30 minute winter. 2910 minute analysis at 1 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	223	104.972	0.307	31.8	24.2996	0.0000	SURCHARGED
30 minute winter	8	19	105.014	0.214	23.9	0.3649	0.0000	SURCHARGED
30 minute winter	2	221	104.973	0.464	39.9	0.6916	0.0000	SURCHARGED
30 minute winter	4	33	105.187	0.910	12.5	6.5859	0.0000	SURCHARGED
30 minute winter	9	32	105.190	0.610	31.8	20.5806	0.0000	FLOOD RISK
30 minute winter	5	33	105.187	0.963	21.1	4.5087	0.0000	SURCHARGED
30 minute winter	10	20	105.194	0.886	20.5	1.6690	0.0000	FLOOD RISK
30 minute winter	11	33	105.187	0.996	19.8	1.1262	0.0000	SURCHARGED
30 minute winter	6	33	105.187	1.016	19.4	1.1489	0.0000	SURCHARGED
30 minute winter	7	33	104.172	0.036	1.9	0.0000	0.0000	OK
30 minute winter	3	226	104.972	0.544	64.5	50.6047	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	7.9	0.317	0.186	0.9385	
30 minute winter	8	2.000	2	22.8	1.473	0.839	0.1636	
30 minute winter	2	1.001	3	39.4	1.140	1.140	0.7126	
30 minute winter	4	1.003	5	-7.0	0.364	-0.201	0.4704	
30 minute winter	9	3.000	5	8.3	0.752	0.577	0.5107	
30 minute winter	5	1.004	6	-17.2	-0.432	-0.496	0.4621	
30 minute winter	10	4.000	11	19.8	0.536	0.575	1.0462	
30 minute winter	11	4.001	6	19.4	0.488	0.570	0.1834	
30 minute winter	6	1.005	7	1.9	0.551	0.129	0.0176	112.8
30 minute winter	3	Hydro-Brake®	4	1.2				

Results for 100 year +40% CC 60 minute summer. 2940 minute analysis at 1 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	231	105.016	0.351	29.1	27.7559	0.0000	SURCHARGED
60 minute summer	8	235	105.016	0.216	19.7	0.3692	0.0000	SURCHARGED
60 minute summer	2	226	105.016	0.508	34.8	0.7567	0.0000	SURCHARGED
60 minute summer	4	62	105.195	0.918	9.9	6.9355	0.0000	SURCHARGED
60 minute summer	9	62	105.196	0.616	26.2	21.0773	0.0000	FLOOD RISK
60 minute summer	5	62	105.195	0.971	17.1	4.6565	0.0000	SURCHARGED
60 minute summer	10	60	105.195	0.887	16.9	1.6703	0.0000	FLOOD RISK
60 minute summer	11	63	105.194	1.003	16.3	1.1348	0.0000	SURCHARGED
60 minute summer	6	62	105.194	1.023	16.0	1.1575	0.0000	SURCHARGED
60 minute summer	7	63	104.172	0.036	1.9	0.0000	0.0000	OK
60 minute summer	3	234	105.016	0.588	48.3	54.6709	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	8.7	0.336	0.205	0.9385	
60 minute summer	8	2.000	2	19.4	1.372	0.711	0.1636	
60 minute summer	2	1.001	3	29.6	0.946	0.856	0.7126	
60 minute summer	4	1.003	5	-5.0	0.364	-0.143	0.4704	
60 minute summer	9	3.000	5	-6.6	0.627	-0.458	0.5107	
60 minute summer	5	1.004	6	-13.8	-0.347	-0.399	0.4621	
60 minute summer	10	4.000	11	16.3	0.462	0.473	1.0462	
60 minute summer	11	4.001	6	16.0	0.401	0.469	0.1834	
60 minute summer	6	1.005	7	1.9	0.551	0.129	0.0176	125.8
60 minute summer	3	Hydro-Brake®	4	1.2				

Results for 100 year +40% CC 60 minute winter. 2940 minute analysis at 1 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	229	105.068	0.403	25.9	31.8765	0.0000	SURCHARGED
60 minute winter	8	230	105.069	0.269	15.9	0.4584	0.0000	SURCHARGED
60 minute winter	2	226	105.068	0.560	29.4	0.8344	0.0000	SURCHARGED
60 minute winter	4	61	105.232	0.955	8.3	8.8863	0.0000	SURCHARGED
60 minute winter	9	61	105.234	0.654	21.2	23.9591	0.0000	FLOOD RISK
60 minute winter	5	61	105.232	1.008	13.5	5.3837	0.0000	FLOOD RISK
60 minute winter	10	61	105.232	0.924	13.7	1.7403	0.0000	FLOOD RISK
60 minute winter	11	61	105.232	1.041	13.3	1.1772	0.0000	FLOOD RISK
60 minute winter	6	61	105.232	1.061	13.0	1.1999	0.0000	SURCHARGED
60 minute winter	7	61	104.173	0.037	1.9	0.0000	0.0000	OK
60 minute winter	3	232	105.068	0.640	43.3	59.5169	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	-8.9	0.354	-0.210	0.9385	
60 minute winter	8	2.000	2	15.6	1.362	0.574	0.1636	
60 minute winter	2	1.001	3	27.2	1.003	0.788	0.7126	
60 minute winter	4	1.003	5	-4.3	0.364	-0.125	0.4704	
60 minute winter	9	3.000	5	-6.3	0.644	-0.436	0.5107	
60 minute winter	5	1.004	6	-10.9	0.350	-0.316	0.4621	
60 minute winter	10	4.000	11	13.3	0.472	0.384	1.0462	
60 minute winter	11	4.001	6	13.0	0.327	0.381	0.1834	
60 minute winter	6	1.005	7	1.9	0.554	0.131	0.0179	140.9
60 minute winter	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 120 minute summer. 3000 minute analysis at 2 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	240	105.101	0.436	22.8	34.4955	0.0000	SURCHARGED
120 minute summer	8	242	105.102	0.302	12.6	0.5148	0.0000	SURCHARGED
120 minute summer	2	242	105.102	0.594	19.9	0.8837	0.0000	SURCHARGED
120 minute summer	4	120	105.211	0.934	6.3	7.7295	0.0000	SURCHARGED
120 minute summer	9	120	105.212	0.632	16.4	22.3006	0.0000	FLOOD RISK
120 minute summer	5	120	105.211	0.987	10.4	4.9661	0.0000	FLOOD RISK
120 minute summer	10	120	105.211	0.903	10.9	1.7007	0.0000	FLOOD RISK
120 minute summer	11	120	105.211	1.020	10.5	1.1532	0.0000	FLOOD RISK
120 minute summer	6	120	105.211	1.040	10.3	1.1758	0.0000	SURCHARGED
120 minute summer	7	120	104.172	0.036	1.9	0.0000	0.0000	OK
120 minute summer	3	244	105.101	0.673	27.1	62.5951	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	-8.9	0.323	-0.210	0.9385	
120 minute summer	8	2.000	2	12.4	1.146	0.456	0.1636	
120 minute summer	2	1.001	3	17.0	0.825	0.493	0.7126	
120 minute summer	4	1.003	5	-3.0	0.364	-0.087	0.4704	
120 minute summer	9	3.000	5	-4.5	0.548	-0.313	0.5107	
120 minute summer	5	1.004	6	-8.3	0.272	-0.240	0.4621	
120 minute summer	10	4.000	11	10.5	0.409	0.305	1.0462	
120 minute summer	11	4.001	6	10.3	0.259	0.303	0.1834	
120 minute summer	6	1.005	7	1.9	0.552	0.130	0.0177	151.7
120 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 120 minute winter. 3000 minute analysis at 2 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	226	105.165	0.500	17.8	39.5501	0.0000	SURCHARGED
120 minute winter	8	232	105.166	0.365	9.8	0.6239	0.0000	SURCHARGED
120 minute winter	2	222	105.166	0.657	17.6	0.9789	0.0000	SURCHARGED
120 minute winter	4	118	105.255	0.978	5.6	10.1871	0.0000	SURCHARGED
120 minute winter	9	118	105.256	0.676	12.0	25.6957	0.0000	FLOOD RISK
120 minute winter	5	118	105.255	1.031	7.6	5.8250	0.0000	FLOOD RISK
120 minute winter	10	118	105.255	0.947	8.4	1.7835	0.0000	FLOOD RISK
120 minute winter	11	118	105.255	1.064	8.1	1.2030	0.0000	FLOOD RISK
120 minute winter	6	118	105.255	1.084	8.0	1.2256	0.0000	SURCHARGED
120 minute winter	7	118	104.173	0.037	1.9	0.0000	0.0000	OK
120 minute winter	3	222	105.165	0.737	24.9	68.5406	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	-7.0	0.339	-0.166	0.9385	
120 minute winter	8	2.000	2	9.7	1.171	0.355	0.1636	
120 minute winter	2	1.001	3	16.0	0.834	0.463	0.7126	
120 minute winter	4	1.003	5	-3.4	0.364	-0.099	0.4704	
120 minute winter	9	3.000	5	-3.8	0.562	-0.263	0.5107	
120 minute winter	5	1.004	6	-6.0	0.286	-0.173	0.4621	
120 minute winter	10	4.000	11	8.1	0.373	0.236	1.0462	
120 minute winter	11	4.001	6	8.0	0.200	0.234	0.1834	
120 minute winter	6	1.005	7	1.9	0.555	0.132	0.0180	170.0
120 minute winter	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 180 minute summer. 3060 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	248	105.150	0.485	17.0	38.3213	0.0000	SURCHARGED
180 minute summer	8	236	105.150	0.350	9.3	0.5973	0.0000	SURCHARGED
180 minute summer	2	244	105.150	0.642	14.7	0.9557	0.0000	SURCHARGED
180 minute summer	4	160	105.208	0.931	4.8	7.5909	0.0000	SURCHARGED
180 minute summer	9	156	105.209	0.629	11.7	22.0820	0.0000	FLOOD RISK
180 minute summer	5	160	105.208	0.984	7.1	4.9132	0.0000	FLOOD RISK
180 minute summer	10	160	105.208	0.900	8.0	1.6955	0.0000	FLOOD RISK
180 minute summer	11	160	105.208	1.017	7.7	1.1501	0.0000	FLOOD RISK
180 minute summer	6	160	105.208	1.037	7.6	1.1727	0.0000	SURCHARGED
180 minute summer	7	160	104.172	0.036	1.9	0.0000	0.0000	OK
180 minute summer	3	252	105.150	0.722	18.5	67.0945	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	-6.7	0.308	-0.157	0.9385	
180 minute summer	8	2.000	2	9.2	1.015	0.339	0.1636	
180 minute summer	2	1.001	3	10.9	0.727	0.315	0.7126	
180 minute summer	4	1.003	5	-2.5	0.364	-0.072	0.4704	
180 minute summer	9	3.000	5	-3.4	0.505	-0.237	0.5107	
180 minute summer	5	1.004	6	-5.6	0.254	-0.163	0.4621	
180 minute summer	10	4.000	11	7.7	0.372	0.224	1.0462	
180 minute summer	11	4.001	6	7.6	0.190	0.222	0.1834	
180 minute summer	6	1.005	7	1.9	0.552	0.130	0.0177	167.1
180 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 180 minute winter. 3060 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	224	105.221	0.556	12.6	43.9343	0.0000	SURCHARGED
180 minute winter	8	232	105.221	0.421	7.2	0.7187	0.0000	SURCHARGED
180 minute winter	2	232	105.221	0.713	11.0	1.0615	0.0000	SURCHARGED
180 minute winter	4	172	105.255	0.977	4.3	10.1659	0.0000	SURCHARGED
180 minute winter	9	176	105.256	0.676	8.4	25.6526	0.0000	FLOOD RISK
180 minute winter	5	172	105.254	1.030	5.2	5.8186	0.0000	FLOOD RISK
180 minute winter	10	172	105.255	0.946	6.2	1.7832	0.0000	FLOOD RISK
180 minute winter	11	172	105.254	1.063	6.0	1.2027	0.0000	FLOOD RISK
180 minute winter	6	172	105.254	1.083	5.9	1.2253	0.0000	SURCHARGED
180 minute winter	7	172	104.173	0.037	1.9	0.0000	0.0000	OK
180 minute winter	3	228	105.221	0.793	15.8	73.6953	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	-4.9	0.311	-0.115	0.9385	
180 minute winter	8	2.000	2	6.9	1.025	0.253	0.1636	
180 minute winter	2	1.001	3	10.0	0.739	0.288	0.7126	
180 minute winter	4	1.003	5	-2.6	0.364	-0.076	0.4704	
180 minute winter	9	3.000	5	-2.6	0.516	-0.181	0.5107	
180 minute winter	5	1.004	6	-4.0	0.227	-0.115	0.4621	
180 minute winter	10	4.000	11	6.0	0.333	0.174	1.0462	
180 minute winter	11	4.001	6	5.9	0.182	0.173	0.1834	
180 minute winter	6	1.005	7	1.9	0.555	0.132	0.0180	187.1
180 minute winter	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 240 minute summer. 3120 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	252	105.183	0.518	13.8	40.9335	0.0000	SURCHARGED
240 minute summer	8	264	105.183	0.383	7.8	0.6537	0.0000	SURCHARGED
240 minute summer	2	264	105.183	0.675	12.1	1.0049	0.0000	SURCHARGED
240 minute summer	4	188	105.201	0.924	3.9	7.2258	0.0000	SURCHARGED
240 minute summer	9	184	105.202	0.622	9.4	21.5135	0.0000	FLOOD RISK
240 minute summer	5	188	105.201	0.977	5.7	4.7718	0.0000	FLOOD RISK
240 minute summer	10	188	105.201	0.893	6.7	1.6819	0.0000	FLOOD RISK
240 minute summer	11	188	105.201	1.010	6.5	1.1419	0.0000	FLOOD RISK
240 minute summer	6	188	105.201	1.030	6.3	1.1645	0.0000	SURCHARGED
240 minute summer	7	188	104.172	0.036	1.9	0.0000	0.0000	OK
240 minute summer	3	260	105.183	0.755	15.5	70.1679	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	-5.2	0.292	-0.123	0.9385	
240 minute summer	8	2.000	2	7.5	0.920	0.275	0.1636	
240 minute summer	2	1.001	3	8.3	0.694	0.240	0.7126	
240 minute summer	4	1.003	5	-2.1	0.364	-0.060	0.4704	
240 minute summer	9	3.000	5	-2.6	0.480	-0.182	0.5107	
240 minute summer	5	1.004	6	-4.4	0.266	-0.128	0.4621	
240 minute summer	10	4.000	11	6.5	0.362	0.187	1.0462	
240 minute summer	11	4.001	6	6.3	0.163	0.186	0.1834	
240 minute summer	6	1.005	7	1.9	0.552	0.129	0.0177	177.8
240 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 240 minute winter. 3120 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	244	105.290	0.625	10.1	49.3985	0.0000	SURCHARGED
240 minute winter	8	244	105.290	0.490	5.8	0.8362	0.0000	SURCHARGED
240 minute winter	2	244	105.290	0.782	9.3	1.1642	0.0000	SURCHARGED
240 minute winter	4	232	105.249	0.971	3.4	9.8124	0.0000	SURCHARGED
240 minute winter	9	232	105.249	0.669	6.5	25.1541	0.0000	FLOOD RISK
240 minute winter	5	232	105.249	1.024	3.9	5.7024	0.0000	FLOOD RISK
240 minute winter	10	232	105.248	0.940	5.0	1.7718	0.0000	FLOOD RISK
240 minute winter	11	232	105.248	1.057	4.8	1.1959	0.0000	FLOOD RISK
240 minute winter	6	232	105.248	1.077	4.7	1.2185	0.0000	SURCHARGED
240 minute winter	7	232	104.173	0.037	1.9	0.0000	0.0000	OK
240 minute winter	3	244	105.290	0.862	13.5	74.5164	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	-3.8	0.299	-0.091	0.9385	
240 minute winter	8	2.000	2	5.5	0.931	0.201	0.1636	
240 minute winter	2	1.001	3	8.6	0.696	0.249	0.7126	
240 minute winter	4	1.003	5	-2.0	0.364	-0.058	0.4704	
240 minute winter	9	3.000	5	1.9	0.484	0.134	0.5107	
240 minute winter	5	1.004	6	-2.9	0.228	-0.083	0.4621	
240 minute winter	10	4.000	11	4.8	0.314	0.140	1.0462	
240 minute winter	11	4.001	6	4.7	0.178	0.139	0.1834	
240 minute winter	6	1.005	7	1.9	0.555	0.132	0.0180	199.1
240 minute winter	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 360 minute summer. 3240 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	368	105.224	0.559	10.2	44.1621	0.0000	SURCHARGED
360 minute summer	8	368	105.224	0.424	5.8	0.7231	0.0000	SURCHARGED
360 minute summer	2	368	105.224	0.716	8.9	1.0657	0.0000	SURCHARGED
360 minute summer	4	256	105.186	0.909	2.8	6.4991	0.0000	SURCHARGED
360 minute summer	9	256	105.187	0.607	6.7	20.3416	0.0000	FLOOD RISK
360 minute summer	5	256	105.186	0.962	3.9	4.4771	0.0000	SURCHARGED
360 minute summer	10	256	105.186	0.877	5.0	1.6532	0.0000	FLOOD RISK
360 minute summer	11	256	105.185	0.994	4.8	1.1247	0.0000	SURCHARGED
360 minute summer	6	256	105.185	1.014	4.7	1.1473	0.0000	SURCHARGED
360 minute summer	7	256	104.172	0.036	1.9	0.0000	0.0000	OK
360 minute summer	3	368	105.224	0.796	11.7	73.9647	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	-3.8	0.269	-0.089	0.9385	
360 minute summer	8	2.000	2	5.5	0.844	0.201	0.1636	
360 minute summer	2	1.001	3	5.9	0.632	0.170	0.7126	
360 minute summer	4	1.003	5	-1.5	0.364	-0.043	0.4704	
360 minute summer	9	3.000	5	1.7	0.468	0.120	0.5107	
360 minute summer	5	1.004	6	-2.9	0.149	-0.083	0.4621	
360 minute summer	10	4.000	11	4.8	0.143	0.140	1.0462	
360 minute summer	11	4.001	6	4.7	0.119	0.139	0.1834	
360 minute summer	6	1.005	7	1.9	0.551	0.128	0.0176	193.3
360 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 360 minute winter. 3240 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	360	105.376	0.711	7.4	56.2315	0.0000	SURCHARGED
360 minute winter	8	360	105.376	0.576	4.2	0.9838	0.0000	SURCHARGED
360 minute winter	2	360	105.376	0.868	6.5	1.2930	0.0000	SURCHARGED
360 minute winter	4	344	105.237	0.960	2.3	9.1762	0.0000	SURCHARGED
360 minute winter	9	344	105.238	0.658	4.4	24.2812	0.0000	FLOOD RISK
360 minute winter	5	344	105.237	1.013	2.3	5.4869	0.0000	FLOOD RISK
360 minute winter	10	344	105.237	0.929	3.6	1.7508	0.0000	FLOOD RISK
360 minute winter	11	344	105.237	1.046	3.5	1.1833	0.0000	FLOOD RISK
360 minute winter	6	344	105.237	1.066	3.4	1.2059	0.0000	SURCHARGED
360 minute winter	7	344	104.173	0.037	1.9	0.0000	0.0000	OK
360 minute winter	3	360	105.376	0.948	9.1	74.6680	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	-2.8	0.270	-0.067	0.9385	
360 minute winter	8	2.000	2	4.0	0.858	0.147	0.1636	
360 minute winter	2	1.001	3	5.7	0.597	0.165	0.7126	
360 minute winter	4	1.003	5	1.4	0.364	0.041	0.4704	
360 minute winter	9	3.000	5	1.5	0.453	0.103	0.5107	
360 minute winter	5	1.004	6	1.9	0.166	0.054	0.4621	
360 minute winter	10	4.000	11	3.5	0.272	0.101	1.0462	
360 minute winter	11	4.001	6	3.4	0.086	0.101	0.1834	
360 minute winter	6	1.005	7	1.9	0.554	0.131	0.0179	216.2
360 minute winter	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 480 minute summer. 3360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	488	105.258	0.593	8.1	46.8447	0.0000	SURCHARGED
480 minute summer	8	488	105.258	0.458	4.5	0.7811	0.0000	SURCHARGED
480 minute summer	2	488	105.258	0.750	7.0	1.1161	0.0000	SURCHARGED
480 minute summer	4	336	105.173	0.896	2.2	5.9415	0.0000	SURCHARGED
480 minute summer	9	336	105.174	0.594	5.1	19.3754	0.0000	FLOOD RISK
480 minute summer	5	328	105.173	0.949	2.6	4.2379	0.0000	SURCHARGED
480 minute summer	10	328	105.173	0.865	3.9	1.6301	0.0000	FLOOD RISK
480 minute summer	11	328	105.173	0.982	3.8	1.1108	0.0000	SURCHARGED
480 minute summer	6	328	105.173	1.002	3.7	1.1334	0.0000	SURCHARGED
480 minute summer	7	336	104.172	0.036	1.9	0.0000	0.0000	OK
480 minute summer	3	488	105.258	0.830	9.4	74.4598	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	-3.1	0.251	-0.072	0.9385	
480 minute summer	8	2.000	2	4.3	0.764	0.157	0.1636	
480 minute summer	2	1.001	3	4.6	0.589	0.133	0.7126	
480 minute summer	4	1.003	5	1.4	0.364	0.041	0.4704	
480 minute summer	9	3.000	5	1.5	0.453	0.102	0.5107	
480 minute summer	5	1.004	6	-1.9	0.151	-0.055	0.4621	
480 minute summer	10	4.000	11	3.8	0.146	0.110	1.0462	
480 minute summer	11	4.001	6	3.7	0.093	0.109	0.1834	
480 minute summer	6	1.005	7	1.9	0.550	0.128	0.0175	205.4
480 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 480 minute winter. 3360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	472	105.426	0.761	5.9	60.1473	0.0000	SURCHARGED
480 minute winter	8	472	105.426	0.626	3.3	1.0685	0.0000	SURCHARGED
480 minute winter	2	472	105.426	0.918	5.2	1.3668	0.0000	SURCHARGED
480 minute winter	4	448	105.229	0.952	1.8	8.6915	0.0000	SURCHARGED
480 minute winter	9	456	105.229	0.649	3.4	23.6101	0.0000	FLOOD RISK
480 minute winter	5	448	105.229	1.005	2.0	5.3177	0.0000	FLOOD RISK
480 minute winter	10	448	105.229	0.921	2.9	1.7344	0.0000	FLOOD RISK
480 minute winter	11	448	105.229	1.038	2.8	1.1735	0.0000	FLOOD RISK
480 minute winter	6	448	105.229	1.058	2.8	1.1961	0.0000	SURCHARGED
480 minute winter	7	448	104.173	0.037	1.9	0.0000	0.0000	OK
480 minute winter	3	472	105.426	0.998	7.0	74.7549	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	-3.6	0.262	-0.084	0.9385	
480 minute winter	8	2.000	2	3.2	0.782	0.116	0.1636	
480 minute winter	2	1.001	3	4.3	0.541	0.124	0.7126	
480 minute winter	4	1.003	5	1.4	0.364	0.041	0.4704	
480 minute winter	9	3.000	5	1.5	0.453	0.104	0.5107	
480 minute winter	5	1.004	6	1.9	0.184	0.054	0.4621	
480 minute winter	10	4.000	11	2.8	0.242	0.082	1.0462	
480 minute winter	11	4.001	6	2.8	0.115	0.081	0.1834	
480 minute winter	6	1.005	7	1.9	0.553	0.131	0.0178	230.2
480 minute winter	3	Hydro-Brake®	4	1.4				

Results for 100 year +40% CC 600 minute summer. 3480 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	600	105.279	0.614	6.5	48.5020	0.0000	SURCHARGED
600 minute summer	8	600	105.279	0.479	3.6	0.8171	0.0000	SURCHARGED
600 minute summer	2	600	105.279	0.771	5.6	1.1475	0.0000	SURCHARGED
600 minute summer	4	405	105.162	0.885	1.8	5.4717	0.0000	SURCHARGED
600 minute summer	9	405	105.163	0.583	4.0	18.5399	0.0000	FLOOD RISK
600 minute summer	5	405	105.162	0.938	2.1	4.0264	0.0000	SURCHARGED
600 minute summer	10	405	105.162	0.854	3.1	1.6095	0.0000	FLOOD RISK
600 minute summer	11	405	105.162	0.971	3.0	1.0985	0.0000	SURCHARGED
600 minute summer	6	405	105.162	0.991	3.0	1.1211	0.0000	SURCHARGED
600 minute summer	7	405	104.172	0.036	1.8	0.0000	0.0000	OK
600 minute summer	3	600	105.279	0.851	7.6	74.4967	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	-2.5	0.238	-0.059	0.9385	
600 minute summer	8	2.000	2	3.4	0.745	0.126	0.1636	
600 minute summer	2	1.001	3	4.1	0.499	0.119	0.7126	
600 minute summer	4	1.003	5	1.4	0.363	0.041	0.4704	
600 minute summer	9	3.000	5	1.4	0.453	0.096	0.5107	
600 minute summer	5	1.004	6	1.8	0.128	0.052	0.4621	
600 minute summer	10	4.000	11	3.0	0.094	0.087	1.0462	
600 minute summer	11	4.001	6	3.0	0.075	0.087	0.1834	
600 minute summer	6	1.005	7	1.8	0.549	0.127	0.0174	215.6
600 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 600 minute winter. 3480 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	585	105.453	0.788	5.0	62.2568	0.0000	SURCHARGED
600 minute winter	8	585	105.453	0.653	2.8	1.1141	0.0000	SURCHARGED
600 minute winter	2	585	105.453	0.945	4.3	1.4065	0.0000	SURCHARGED
600 minute winter	4	495	105.215	0.938	1.4	7.9377	0.0000	SURCHARGED
600 minute winter	9	495	105.215	0.635	2.8	22.5253	0.0000	FLOOD RISK
600 minute winter	5	495	105.215	0.991	2.0	5.0435	0.0000	FLOOD RISK
600 minute winter	10	495	105.215	0.906	2.4	1.7078	0.0000	FLOOD RISK
600 minute winter	11	495	105.215	1.023	2.3	1.1575	0.0000	FLOOD RISK
600 minute winter	6	495	105.215	1.043	2.3	1.1802	0.0000	SURCHARGED
600 minute winter	7	495	104.172	0.036	1.9	0.0000	0.0000	OK
600 minute winter	3	585	105.453	1.025	6.0	74.8017	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	-2.9	0.244	-0.069	0.9385	
600 minute winter	8	2.000	2	2.7	0.745	0.099	0.1636	
600 minute winter	2	1.001	3	3.8	0.527	0.109	0.7126	
600 minute winter	4	1.003	5	1.4	0.364	0.041	0.4704	
600 minute winter	9	3.000	5	1.2	0.455	0.082	0.5107	
600 minute winter	5	1.004	6	1.9	0.128	0.054	0.4621	
600 minute winter	10	4.000	11	2.3	0.138	0.068	1.0462	
600 minute winter	11	4.001	6	2.3	0.058	0.068	0.1834	
600 minute winter	6	1.005	7	1.9	0.552	0.130	0.0178	240.9
600 minute winter	3	Hydro-Brake®	4	1.4				

Results for 100 year +40% CC 720 minute summer. 3600 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	720	105.286	0.621	5.7	49.0461	0.0000	SURCHARGED
720 minute summer	8	720	105.286	0.486	3.2	0.8288	0.0000	SURCHARGED
720 minute summer	2	720	105.286	0.778	5.0	1.1577	0.0000	SURCHARGED
720 minute summer	4	495	105.151	0.874	1.5	5.0018	0.0000	SURCHARGED
720 minute summer	9	495	105.151	0.571	3.3	17.6302	0.0000	FLOOD RISK
720 minute summer	5	495	105.151	0.927	2.0	3.8033	0.0000	SURCHARGED
720 minute summer	10	495	105.151	0.843	2.8	1.5879	0.0000	FLOOD RISK
720 minute summer	11	495	105.151	0.960	2.7	1.0855	0.0000	SURCHARGED
720 minute summer	6	495	105.151	0.980	2.7	1.1081	0.0000	SURCHARGED
720 minute summer	7	495	104.172	0.036	1.8	0.0000	0.0000	OK
720 minute summer	3	720	105.286	0.857	6.7	74.5088	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	-2.2	0.235	-0.053	0.9385	
720 minute summer	8	2.000	2	3.1	0.701	0.112	0.1636	
720 minute summer	2	1.001	3	3.4	0.504	0.098	0.7126	
720 minute summer	4	1.003	5	1.4	0.363	0.041	0.4704	
720 minute summer	9	3.000	5	1.3	0.439	0.089	0.5107	
720 minute summer	5	1.004	6	1.8	0.128	0.051	0.4621	
720 minute summer	10	4.000	11	2.7	0.092	0.079	1.0462	
720 minute summer	11	4.001	6	2.7	0.067	0.079	0.1834	
720 minute summer	6	1.005	7	1.8	0.548	0.126	0.0174	223.7
720 minute summer	3	Hydro-Brake®	4	1.3				

Results for 100 year +40% CC 720 minute winter. 3600 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	705	105.545	0.880	4.4	63.4159	0.0000	SURCHARGED
720 minute winter	8	705	105.545	0.745	2.4	1.2723	0.0000	SURCHARGED
720 minute winter	2	705	105.545	1.037	3.7	1.5444	0.0000	SURCHARGED
720 minute winter	4	585	105.203	0.926	1.4	7.3595	0.0000	SURCHARGED
720 minute winter	9	585	105.204	0.624	2.4	21.6505	0.0000	FLOOD RISK
720 minute winter	5	585	105.203	0.979	2.0	4.8231	0.0000	FLOOD RISK
720 minute winter	10	585	105.203	0.895	2.1	1.6865	0.0000	FLOOD RISK
720 minute winter	11	585	105.203	1.012	2.1	1.1447	0.0000	FLOOD RISK
720 minute winter	6	585	105.203	1.032	2.0	1.1674	0.0000	SURCHARGED
720 minute winter	7	585	104.172	0.036	1.9	0.0000	0.0000	OK
720 minute winter	3	705	105.545	1.117	5.1	74.9640	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	-2.5	0.232	-0.058	0.9385	
720 minute winter	8	2.000	2	2.3	0.703	0.085	0.1636	
720 minute winter	2	1.001	3	3.3	0.458	0.096	0.7126	
720 minute winter	4	1.003	5	1.4	0.363	0.041	0.4704	
720 minute winter	9	3.000	5	1.2	0.439	0.085	0.5107	
720 minute winter	5	1.004	6	1.8	0.128	0.053	0.4621	
720 minute winter	10	4.000	11	2.1	0.161	0.059	1.0462	
720 minute winter	11	4.001	6	2.0	0.051	0.059	0.1834	
720 minute winter	6	1.005	7	1.9	0.552	0.129	0.0177	251.2
720 minute winter	3	Hydro-Brake®	4	1.4				

Results for 100 year +40% CC 960 minute summer. 3840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	930	105.289	0.624	4.7	49.2977	0.0000	SURCHARGED
960 minute summer	8	930	105.289	0.489	2.6	0.8342	0.0000	SURCHARGED
960 minute summer	2	930	105.289	0.781	4.0	1.1624	0.0000	SURCHARGED
960 minute summer	4	645	105.133	0.856	1.4	4.3195	0.0000	SURCHARGED
960 minute summer	9	645	105.133	0.553	2.6	16.2447	0.0000	FLOOD RISK
960 minute summer	5	645	105.133	0.909	2.0	3.4556	0.0000	SURCHARGED
960 minute summer	10	645	105.133	0.825	2.2	1.5542	0.0000	FLOOD RISK
960 minute summer	11	645	105.133	0.942	2.1	1.0653	0.0000	SURCHARGED
960 minute summer	6	645	105.133	0.962	2.1	1.0879	0.0000	SURCHARGED
960 minute summer	7	645	104.172	0.036	1.8	0.0000	0.0000	OK
960 minute summer	3	930	105.289	0.861	5.5	74.5143	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	-1.8	0.216	-0.043	0.9385	
960 minute summer	8	2.000	2	2.5	0.652	0.091	0.1636	
960 minute summer	2	1.001	3	3.0	0.455	0.088	0.7126	
960 minute summer	4	1.003	5	1.4	0.363	0.041	0.4704	
960 minute summer	9	3.000	5	1.1	0.439	0.079	0.5107	
960 minute summer	5	1.004	6	1.7	0.128	0.050	0.4621	
960 minute summer	10	4.000	11	2.1	0.113	0.062	1.0462	
960 minute summer	11	4.001	6	2.1	0.053	0.062	0.1834	
960 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	237.8
960 minute summer	3	Hydro-Brake®	4	1.4				

Results for 100 year +40% CC 960 minute winter. 3840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	915	105.463	0.798	3.4	63.1086	0.0000	SURCHARGED
960 minute winter	8	915	105.464	0.663	1.9	1.1325	0.0000	SURCHARGED
960 minute winter	2	915	105.463	0.955	3.0	1.4226	0.0000	SURCHARGED
960 minute winter	4	750	105.179	0.902	1.4	6.2181	0.0000	SURCHARGED
960 minute winter	9	750	105.180	0.600	1.9	19.8004	0.0000	FLOOD RISK
960 minute winter	5	750	105.179	0.955	1.9	4.3573	0.0000	SURCHARGED
960 minute winter	10	750	105.179	0.871	1.7	1.6414	0.0000	FLOOD RISK
960 minute winter	11	750	105.179	0.988	1.7	1.1177	0.0000	SURCHARGED
960 minute winter	6	750	105.179	1.008	2.0	1.1403	0.0000	SURCHARGED
960 minute winter	7	750	104.172	0.036	1.9	0.0000	0.0000	OK
960 minute winter	3	915	105.463	1.035	4.0	74.8207	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	-1.9	0.226	-0.046	0.9385	
960 minute winter	8	2.000	2	1.8	0.652	0.067	0.1636	
960 minute winter	2	1.001	3	2.8	0.414	0.081	0.7126	
960 minute winter	4	1.003	5	1.4	0.364	0.041	0.4704	
960 minute winter	9	3.000	5	1.1	0.424	0.079	0.5107	
960 minute winter	5	1.004	6	1.8	0.128	0.053	0.4621	
960 minute winter	10	4.000	11	1.7	0.198	0.048	1.0462	
960 minute winter	11	4.001	6	1.6	0.060	0.048	0.1834	
960 minute winter	6	1.005	7	1.9	0.550	0.128	0.0176	265.8
960 minute winter	3	Hydro-Brake®	4	1.4				

Results for 100 year +40% CC 1440 minute summer. 4320 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	1170	105.236	0.571	3.4	45.1468	0.0000	SURCHARGED
1440 minute summer	8	1170	105.236	0.436	1.8	0.7446	0.0000	SURCHARGED
1440 minute summer	2	1170	105.236	0.728	2.8	1.0842	0.0000	SURCHARGED
1440 minute summer	4	930	105.096	0.819	1.4	3.0999	0.0000	SURCHARGED
1440 minute summer	9	930	105.096	0.516	1.9	13.3906	0.0000	SURCHARGED
1440 minute summer	5	930	105.096	0.872	1.8	2.7354	0.0000	SURCHARGED
1440 minute summer	10	930	105.096	0.788	1.6	1.4844	0.0000	SURCHARGED
1440 minute summer	11	930	105.096	0.905	1.6	1.0234	0.0000	SURCHARGED
1440 minute summer	6	930	105.096	0.925	1.9	1.0460	0.0000	SURCHARGED
1440 minute summer	7	1650	104.172	0.036	1.8	0.0000	0.0000	OK
1440 minute summer	3	1170	105.236	0.808	3.9	74.4223	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	-1.4	0.194	-0.033	0.9385	
1440 minute summer	8	2.000	2	1.7	0.591	0.063	0.1636	
1440 minute summer	2	1.001	3	2.0	0.368	0.059	0.7126	
1440 minute summer	4	1.003	5	1.4	0.363	0.041	0.4704	
1440 minute summer	9	3.000	5	1.1	0.422	0.075	0.5107	
1440 minute summer	5	1.004	6	1.6	0.128	0.047	0.4621	
1440 minute summer	10	4.000	11	1.6	0.082	0.045	1.0462	
1440 minute summer	11	4.001	6	1.5	0.039	0.045	0.1834	
1440 minute summer	6	1.005	7	1.8	0.547	0.125	0.0173	256.8
1440 minute summer	3	Hydro-Brake®	4	1.4				

Results for 100 year +40% CC 1440 minute winter. 4320 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	1230	105.418	0.752	2.5	59.4777	0.0000	SURCHARGED
1440 minute winter	8	1230	105.418	0.617	1.4	1.0541	0.0000	SURCHARGED
1440 minute winter	2	1230	105.418	0.909	2.1	1.3542	0.0000	SURCHARGED
1440 minute winter	4	1050	105.134	0.857	1.4	4.3491	0.0000	SURCHARGED
1440 minute winter	9	1080	105.134	0.554	1.4	16.2932	0.0000	FLOOD RISK
1440 minute winter	5	1050	105.134	0.910	1.7	3.4709	0.0000	SURCHARGED
1440 minute winter	10	1050	105.134	0.826	1.2	1.5556	0.0000	FLOOD RISK
1440 minute winter	11	1050	105.134	0.943	1.2	1.0662	0.0000	SURCHARGED
1440 minute winter	6	1050	105.134	0.963	1.9	1.0888	0.0000	SURCHARGED
1440 minute winter	7	540	104.172	0.036	1.8	0.0000	0.0000	OK
1440 minute winter	3	1230	105.417	0.989	2.9	74.7401	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	-1.3	0.218	-0.030	0.9385	
1440 minute winter	8	2.000	2	1.3	0.623	0.050	0.1636	
1440 minute winter	2	1.001	3	2.0	0.395	0.058	0.7126	
1440 minute winter	4	1.003	5	1.4	0.364	0.042	0.4704	
1440 minute winter	9	3.000	5	1.1	0.423	0.074	0.5107	
1440 minute winter	5	1.004	6	1.7	0.128	0.050	0.4621	
1440 minute winter	10	4.000	11	1.2	0.192	0.034	1.0462	
1440 minute winter	11	4.001	6	1.2	0.060	0.034	0.1834	
1440 minute winter	6	1.005	7	1.8	0.547	0.125	0.0173	286.5
1440 minute winter	3	Hydro-Brake®	4	1.4				