



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.300	Preferred Cover Depth (m)	0.600
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Adoptable Manhole Type

Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)
374	1200	499	1350	749	1500	900	1800

>900 Link+900 mm

Max Depth (m)	Diameter (mm)	Max Depth (m)	Diameter (mm)
1.500	1050	99.999	1200

Circular Default Sewer Type Link Type

Shape Circular | Barrels 1 | Auto Increment (mm) 75 | Follow Ground x

Available Diameters (mm)
100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.006	5.00	91.200	270	377447.018	407372.486	0.750
2	0.000		91.200	450	377446.967	407384.439	0.951
3	0.010	5.00	91.273	270	377460.605	407359.517	0.750
4	0.000		91.200	900	377460.383	407384.669	4.746
5			91.010	1200	377474.375	407385.159	4.804

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	11.953	0.600	90.450	90.249	0.201	59.5	150	5.15	50.0
1.001	2	4	13.418	0.600	90.249	90.023	0.226	59.4	150	5.32	50.0
2.000	3	4	25.153	0.600	90.523	89.930	0.593	42.4	150	5.27	50.0
1.002	4	5	14.001	0.600	86.454	86.206	0.248	56.5	150	5.50	49.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.306	23.1	0.8	0.600	0.801	0.006	0.0	19	0.607
1.001	1.307	23.1	0.8	0.801	1.027	0.006	0.0	19	0.607
2.000	1.549	27.4	1.4	0.600	1.120	0.010	0.0	23	0.803
1.002	1.341	23.7	2.2	4.596	4.654	0.016	0.0	31	0.840

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	11.953	59.5	150	Circular_Default Sewer Type	91.200	90.450	0.600	91.200	90.249	0.801
1.001	13.418	59.4	150	Circular_Default Sewer Type	91.200	90.249	0.801	91.200	90.023	1.027
2.000	25.153	42.4	150	Circular_Default Sewer Type	91.273	90.523	0.600	91.200	89.930	1.120
1.002	14.001	56.5	150	Circular_Default Sewer Type	91.200	86.454	4.596	91.010	86.206	4.654

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	270	Manhole	Adoptable	2	450	Manhole	Adoptable
1.001	2	450	Manhole	Adoptable	4	900	Manhole	Adoptable
2.000	3	270	Manhole	Adoptable	4	900	Manhole	Adoptable
1.002	4	900	Manhole	Adoptable	5	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	377447.018	407372.486	91.200	0.750	270		0	1.000	90.450	150
2	377446.967	407384.439	91.200	0.951	450		1	1.000	90.249	150
3	377460.605	407359.517	91.273	0.750	270		0	1.001	90.249	150
4	377460.383	407384.669	91.200	4.746	900		2	1.001	90.023	150
5	377474.375	407385.159	91.010	4.804	1200		1	1.002	86.206	150

Node 4 Online Orifice Control

Flap Valve	x	Design Depth (m)	4.417	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	5.0		
Invert Level (m)	86.454	Diameter (m)	0.033		

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Approval Settings

Node Size	✓	Backdrops	✓	Maximum Surcharged Depth (m)	0.100
Node Losses	✓	Minimum Backdrop Height (m)	0.200	Flooding	✓
Link Size	✓	Maximum Backdrop Height (m)	1.500	Return Period (years)	30
Minimum Diameter (mm)	150	Full Bore Velocity	✓	Time to Half Empty	✓
Link Length	✓	Minimum Full Bore Velocity (m/s)	1.000	Return Period (years)	2
Maximum Length (m)	100.000	Maximum Full Bore Velocity (m/s)	3.000	Discharge Rates	✓
Coordinates	✓	Proportional Velocity	✓	1 year (l/s)	5.0
Accuracy (m)	1.000	Return Period (years)	2	2 year (l/s)	5.0
Crossings	✓	Minimum Proportional Velocity (m/s)	0.750	30 year (l/s)	5.0
Cover Depth	✓	Maximum Proportional Velocity (m/s)	3.000	100 year (l/s)	5.0
Minimum Cover Depth (m)	0.600	Surcharged Depth	✓	Discharge Volume	x
Maximum Cover Depth (m)	3.000	Return Period (years)	2		

Approval Results

The network has been designed for a 1 in 2 year storm using FSR rainfall
It contains 5 nodes (1 outfall) and 4 links
The total impermeable area is 0.016 ha
1 online control has been defined
No additional storage is present
Simulations have been completed using FSR summer and winter storms from 15 to 1440 minute duration

4 manholes are smaller than that required by the library

Node	Required Dia (mm)	Actual Dia (mm)
1	1200	270
2	1200	450
3	1200	270
4	1200	900

2 connections have combined exit and entry losses less than the recommended total

Node	US Link	DS Link	US Exit Loss	DS Entry Loss	Angle (degrees)	Recommended Node Losses
2	1.000	1.001	0.250	0.250	89	0.900
4	2.000	1.002	0.250	0.250	89	0.900

No circular links have diameters < 150mm

No links have lengths > 100.000m

No links have lengths that differ from their coordinated length by more than 1.000m

1 link crosses one or more other links

US Node	DS Node	Link	Network	Link	Easting (m)	Northing (m)
4	5	1.002	Foul Network 1	1.001	377462.791	407384.753

2 links have cover depth outside the range 0.600-3.000m

US Node	DS Node	Link	Minimum Depth (m)	Maximum Depth (m)
1	2	1.000	0.511	0.801
4	5	1.002	4.042	4.654

2 nodes have backdrops outside the range 0.200-1.500m

Node	US Link	DS Link	Backdrop (m)
4	1.001	1.002	3.569
4	2.000	1.002	3.476

No links have full bore velocity outside the range 1.000-3.000m/s

2 links have peak proportional velocity outside the range 0.750-3.000m/s during the 2 year return period

US Node	DS Node	Link	Velocity (m/s)	Event
1	2	1.000	0.620	2 year 15 minute summer
2	4	1.001	0.608	2 year 15 minute winter

No links have a surcharged depth greater than 0.100m during the 2 year return period

No nodes flood during the 30 year return period

No infiltrating structures failed to half empty in 1440 minutes during the 2 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 1 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 2 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 30 year return period

No outfalls have a discharge rate greater than 5.0l/s during the 100 year return period

The discharge volume test has not been completed

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	84.280	23.848	30 year 15 minute summer	205.071	58.028
1 year 15 minute winter	59.144	23.848	30 year 15 minute winter	143.910	58.028
1 year 30 minute summer	57.102	16.158	30 year 30 minute summer	140.191	39.669
1 year 30 minute winter	40.072	16.158	30 year 30 minute winter	98.380	39.669
1 year 60 minute summer	40.398	10.676	30 year 60 minute summer	98.615	26.061
1 year 60 minute winter	26.839	10.676	30 year 60 minute winter	65.517	26.061
1 year 120 minute summer	26.432	6.985	30 year 120 minute summer	63.038	16.659
1 year 120 minute winter	17.561	6.985	30 year 120 minute winter	41.881	16.659
1 year 180 minute summer	21.115	5.434	30 year 180 minute summer	49.285	12.683
1 year 180 minute winter	13.725	5.434	30 year 180 minute winter	32.037	12.683
1 year 240 minute summer	17.197	4.545	30 year 240 minute summer	39.344	10.398
1 year 240 minute winter	11.425	4.545	30 year 240 minute winter	26.139	10.398
1 year 360 minute summer	13.694	3.524	30 year 360 minute summer	30.343	7.808
1 year 360 minute winter	8.901	3.524	30 year 360 minute winter	19.724	7.808
1 year 480 minute summer	11.066	2.925	30 year 480 minute summer	24.111	6.372
1 year 480 minute winter	7.352	2.925	30 year 480 minute winter	16.019	6.372
1 year 600 minute summer	9.254	2.531	30 year 600 minute summer	19.882	5.438
1 year 600 minute winter	6.323	2.531	30 year 600 minute winter	13.585	5.438
1 year 720 minute summer	8.394	2.250	30 year 720 minute summer	17.819	4.776
1 year 720 minute winter	5.641	2.250	30 year 720 minute winter	11.975	4.776
1 year 960 minute summer	7.097	1.869	30 year 960 minute summer	14.763	3.887
1 year 960 minute winter	4.701	1.869	30 year 960 minute winter	9.779	3.887
1 year 1440 minute summer	5.374	1.440	30 year 1440 minute summer	10.836	2.904
1 year 1440 minute winter	3.611	1.440	30 year 1440 minute winter	7.282	2.904
2 year 15 minute summer	109.066	30.862	100 year +40% CC 15 minute summer	368.854	104.373
2 year 15 minute winter	76.538	30.862	100 year +40% CC 15 minute winter	258.845	104.373
2 year 30 minute summer	73.782	20.878	100 year +40% CC 30 minute summer	255.101	72.185
2 year 30 minute winter	51.777	20.878	100 year +40% CC 30 minute winter	179.018	72.185
2 year 60 minute summer	51.720	13.668	100 year +40% CC 60 minute summer	180.954	47.821
2 year 60 minute winter	34.361	13.668	100 year +40% CC 60 minute winter	120.222	47.821
2 year 120 minute summer	33.252	8.787	100 year +40% CC 120 minute summer	116.088	30.679
2 year 120 minute winter	22.092	8.787	100 year +40% CC 120 minute winter	77.126	30.679
2 year 180 minute summer	26.258	6.757	100 year +40% CC 180 minute summer	90.626	23.321
2 year 180 minute winter	17.069	6.757	100 year +40% CC 180 minute winter	58.909	23.321
2 year 240 minute summer	21.199	5.602	100 year +40% CC 240 minute summer	72.104	19.055
2 year 240 minute winter	14.084	5.602	100 year +40% CC 240 minute winter	47.904	19.055
2 year 360 minute summer	16.686	4.294	100 year +40% CC 360 minute summer	55.175	14.198
2 year 360 minute winter	10.846	4.294	100 year +40% CC 360 minute winter	35.865	14.198
2 year 480 minute summer	13.415	3.545	100 year +40% CC 480 minute summer	43.619	11.527
2 year 480 minute winter	8.912	3.545	100 year +40% CC 480 minute winter	28.979	11.527
2 year 600 minute summer	11.170	3.055	100 year +40% CC 600 minute summer	35.816	9.797
2 year 600 minute winter	7.632	3.055	100 year +40% CC 600 minute winter	24.472	9.797
2 year 720 minute summer	10.095	2.706	100 year +40% CC 720 minute summer	31.983	8.572
2 year 720 minute winter	6.784	2.706	100 year +40% CC 720 minute winter	21.495	8.572
2 year 960 minute summer	8.482	2.233	100 year +40% CC 960 minute summer	26.337	6.935
2 year 960 minute winter	5.619	2.233	100 year +40% CC 960 minute winter	17.446	6.935
2 year 1440 minute summer	6.362	1.705	100 year +40% CC 1440 minute summer	19.151	5.133
2 year 1440 minute winter	4.276	1.705	100 year +40% CC 1440 minute winter	12.870	5.133

Results for 1 year Critical Storm Duration. Lowest mass balance: 96.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	90.468	0.018	0.7	0.0039	0.0000	OK
15 minute winter	2	11	90.267	0.018	0.7	0.0028	0.0000	OK
15 minute winter	3	10	90.543	0.020	1.1	0.0065	0.0000	OK
15 minute winter	4	14	86.703	0.249	1.7	0.1582	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	1.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	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	0.7	0.587	0.029	0.0136	
15 minute winter	2	1.001	4	0.7	0.573	0.028	0.0153	
15 minute winter	3	2.000	4	1.0	0.743	0.038	0.0351	
15 minute winter	4	Orifice	5	1.1				0.8

Results for 2 year Critical Storm Duration. Lowest mass balance: 96.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	90.470	0.020	0.8	0.0042	0.0000	OK
15 minute winter	2	11	90.268	0.019	0.8	0.0031	0.0000	OK
15 minute winter	3	10	90.546	0.023	1.4	0.0074	0.0000	OK
15 minute winter	4	14	86.818	0.364	2.1	0.2315	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	1.3	0.0000	0.0000	OK

Link Event (Upstream Depth)	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	0.8	0.620	0.035	0.0158	
15 minute winter	2	1.001	4	0.8	0.608	0.035	0.0176	
15 minute winter	3	2.000	4	1.3	0.802	0.049	0.0421	
15 minute winter	4	Orifice	5	1.3				1.0

Results for 30 year Critical Storm Duration. Lowest mass balance: 96.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	90.477	0.027	1.6	0.0059	0.0000	OK
15 minute winter	2	11	90.276	0.027	1.6	0.0043	0.0000	OK
15 minute winter	3	10	90.554	0.031	2.6	0.0102	0.0000	OK
15 minute winter	4	14	87.309	0.855	4.1	0.5439	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	2.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	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	1.6	0.740	0.068	0.0255	
15 minute winter	2	1.001	4	1.6	0.739	0.067	0.0283	
15 minute winter	3	2.000	4	2.6	0.966	0.093	0.0664	
15 minute winter	4	Orifice	5	2.1				2.0

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	90.486	0.036	2.8	0.0078	0.0000	OK
15 minute winter	2	11	90.285	0.036	2.8	0.0057	0.0000	OK
15 minute winter	3	10	90.566	0.043	4.7	0.0138	0.0000	OK
30 minute winter	4	23	88.415	1.961	6.2	1.2471	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	2.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	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	2.8	0.860	0.121	0.0387	
15 minute winter	2	1.001	4	2.8	0.870	0.119	0.0425	
15 minute winter	3	2.000	4	4.6	1.144	0.169	0.1018	
30 minute winter	4	Orifice	5	3.2				4.9

Results for 1 year 15 minute summer. 255 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	10	90.467	0.017	0.6	0.0037	0.0000	OK
15 minute summer	2	11	90.266	0.017	0.6	0.0027	0.0000	OK
15 minute summer	3	11	90.543	0.020	1.0	0.0064	0.0000	OK
15 minute summer	4	13	86.683	0.229	1.6	0.1457	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	1.0	0.0000	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	0.6	0.576	0.026	0.0129	
15 minute summer	2	1.001	4	0.6	0.557	0.026	0.0144	
15 minute summer	3	2.000	4	1.0	0.734	0.036	0.0342	
15 minute summer	4	Orifice	5	1.0				0.7

Results for 1 year 15 minute winter. 255 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	10	90.468	0.018	0.7	0.0039	0.0000	OK
15 minute winter	2	11	90.267	0.018	0.7	0.0028	0.0000	OK
15 minute winter	3	10	90.543	0.020	1.1	0.0065	0.0000	OK
15 minute winter	4	14	86.703	0.249	1.7	0.1582	0.0000	SURCHARGED
15 minute winter	5	1	86.206	0.000	1.1	0.0000	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	0.7	0.587	0.029	0.0136	
15 minute winter	2	1.001	4	0.7	0.573	0.028	0.0153	
15 minute winter	3	2.000	4	1.0	0.743	0.038	0.0351	
15 minute winter	4	Orifice	5	1.1				0.8

Results for 1 year 30 minute summer. 270 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	18	90.467	0.017	0.6	0.0037	0.0000	OK
30 minute summer	2	18	90.266	0.017	0.6	0.0026	0.0000	OK
30 minute summer	3	18	90.543	0.020	1.0	0.0064	0.0000	OK
30 minute summer	4	21	86.690	0.236	1.6	0.1501	0.0000	SURCHARGED
30 minute summer	5	1	86.206	0.000	1.1	0.0000	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	0.6	0.563	0.026	0.0128	
30 minute summer	2	1.001	4	0.6	0.551	0.025	0.0140	
30 minute summer	3	2.000	4	1.0	0.733	0.036	0.0340	
30 minute summer	4	Orifice	5	1.1				1.0

Results for 1 year 30 minute winter. 270 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	17	90.466	0.016	0.5	0.0034	0.0000	OK
30 minute winter	2	19	90.264	0.015	0.5	0.0025	0.0000	OK
30 minute winter	3	18	90.542	0.019	0.9	0.0061	0.0000	OK
30 minute winter	4	22	86.678	0.224	1.4	0.1423	0.0000	SURCHARGED
30 minute winter	5	1	86.206	0.000	1.0	0.0000	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	0.5	0.532	0.022	0.0114	
30 minute winter	2	1.001	4	0.5	0.528	0.022	0.0127	
30 minute winter	3	2.000	4	0.9	0.709	0.033	0.0316	
30 minute winter	4	Orifice	5	1.0				1.1

Results for 1 year 60 minute summer. 300 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	33	90.466	0.016	0.5	0.0034	0.0000	OK
60 minute summer	2	33	90.264	0.015	0.5	0.0024	0.0000	OK
60 minute summer	3	33	90.541	0.018	0.8	0.0057	0.0000	OK
60 minute summer	4	37	86.647	0.193	1.3	0.1227	0.0000	SURCHARGED
60 minute summer	5	1	86.206	0.000	1.0	0.0000	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	0.5	0.532	0.022	0.0112	
60 minute summer	2	1.001	4	0.5	0.520	0.021	0.0122	
60 minute summer	3	2.000	4	0.8	0.684	0.029	0.0291	
60 minute summer	4	Orifice	5	1.0				1.3

Results for 1 year 60 minute winter. 300 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	32	90.464	0.014	0.4	0.0030	0.0000	OK
60 minute winter	2	34	90.263	0.014	0.4	0.0022	0.0000	OK
60 minute winter	3	35	90.539	0.016	0.6	0.0050	0.0000	OK
60 minute winter	4	37	86.616	0.162	1.0	0.1030	0.0000	SURCHARGED
60 minute winter	5	1	86.206	0.000	0.9	0.0000	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	0.4	0.502	0.017	0.0097	
60 minute winter	2	1.001	4	0.4	0.495	0.017	0.0108	
60 minute winter	3	2.000	4	0.6	0.630	0.022	0.0240	
60 minute winter	4	Orifice	5	0.9				1.4

Results for 1 year 120 minute summer. 360 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	62	90.462	0.012	0.3	0.0026	0.0000	OK
120 minute summer	2	66	90.261	0.012	0.3	0.0019	0.0000	OK
120 minute summer	3	66	90.537	0.014	0.5	0.0046	0.0000	OK
120 minute summer	4	68	86.578	0.124	0.8	0.0787	0.0000	OK
120 minute summer	5	2	86.206	0.000	0.7	0.0000	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	0.3	0.454	0.013	0.0080	
120 minute summer	2	1.001	4	0.3	0.453	0.013	0.0089	
120 minute summer	3	2.000	4	0.5	0.597	0.018	0.0211	
120 minute summer	4	Orifice	5	0.7				1.7

Results for 1 year 120 minute winter. 360 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	50	90.460	0.010	0.2	0.0022	0.0000	OK
120 minute winter	2	54	90.259	0.010	0.2	0.0016	0.0000	OK
120 minute winter	3	62	90.536	0.013	0.4	0.0041	0.0000	OK
120 minute winter	4	72	86.534	0.080	0.6	0.0507	0.0000	OK
120 minute winter	5	2	86.206	0.000	0.6	0.0000	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 winter	1	1.000	2	0.2	0.408	0.009	0.0060	
120 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
120 minute winter	3	2.000	4	0.4	0.558	0.015	0.0180	
120 minute winter	4	Orifice	5	0.6				1.8

Results for 1 year 180 minute summer. 420 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	88	90.460	0.010	0.2	0.0022	0.0000	OK
180 minute summer	2	92	90.259	0.010	0.2	0.0016	0.0000	OK
180 minute summer	3	96	90.536	0.013	0.4	0.0041	0.0000	OK
180 minute summer	4	96	86.533	0.079	0.6	0.0506	0.0000	OK
180 minute summer	5	4	86.206	0.000	0.6	0.0000	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	0.2	0.415	0.009	0.0060	
180 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
180 minute summer	3	2.000	4	0.4	0.558	0.015	0.0180	
180 minute summer	4	Orifice	5	0.6				1.6

Results for 1 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 98.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	84	90.460	0.010	0.2	0.0022	0.0000	OK
180 minute winter	2	88	90.259	0.010	0.2	0.0016	0.0000	OK
180 minute winter	3	88	90.534	0.011	0.3	0.0036	0.0000	OK
180 minute winter	4	88	86.514	0.060	0.5	0.0383	0.0000	OK
180 minute winter	5	4	86.206	0.000	0.5	0.0000	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 winter	1	1.000	2	0.2	0.415	0.009	0.0060	
180 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
180 minute winter	3	2.000	4	0.3	0.510	0.011	0.0148	
180 minute winter	4	Orifice	5	0.5				2.2

Results for 1 year 240 minute summer. 480 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	120	90.460	0.010	0.2	0.0022	0.0000	OK
240 minute summer	2	124	90.259	0.010	0.2	0.0016	0.0000	OK
240 minute summer	3	124	90.536	0.013	0.4	0.0041	0.0000	OK
240 minute summer	4	128	86.528	0.074	0.6	0.0469	0.0000	OK
240 minute summer	5	4	86.206	0.000	0.5	0.0000	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	0.2	0.415	0.009	0.0060	
240 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
240 minute summer	3	2.000	4	0.4	0.549	0.014	0.0174	
240 minute summer	4	Orifice	5	0.5				1.8

Results for 1 year 240 minute winter. 480 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	120	90.460	0.010	0.2	0.0022	0.0000	OK
240 minute winter	2	124	90.259	0.010	0.2	0.0016	0.0000	OK
240 minute winter	3	124	90.534	0.011	0.3	0.0036	0.0000	OK
240 minute winter	4	124	86.514	0.060	0.5	0.0383	0.0000	OK
240 minute winter	5	4	86.206	0.000	0.5	0.0000	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 winter	1	1.000	2	0.2	0.415	0.009	0.0060	
240 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
240 minute winter	3	2.000	4	0.3	0.510	0.011	0.0148	
240 minute winter	4	Orifice	5	0.5				2.2

Results for 1 year 360 minute summer. 600 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	184	90.460	0.010	0.2	0.0022	0.0000	OK
360 minute summer	2	184	90.259	0.010	0.2	0.0015	0.0000	OK
360 minute summer	3	184	90.534	0.011	0.3	0.0036	0.0000	OK
360 minute summer	4	184	86.503	0.049	0.5	0.0313	0.0000	OK
360 minute summer	5	8	86.206	0.000	0.4	0.0000	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	0.2	0.402	0.008	0.0057	
360 minute summer	2	1.001	4	0.2	0.386	0.008	0.0062	
360 minute summer	3	2.000	4	0.3	0.504	0.011	0.0144	
360 minute summer	4	Orifice	5	0.4				1.8

Results for 1 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 97.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	128	90.457	0.007	0.1	0.0016	0.0000	OK
360 minute winter	2	152	90.256	0.007	0.1	0.0012	0.0000	OK
360 minute winter	3	160	90.532	0.009	0.2	0.0030	0.0000	OK
360 minute winter	4	160	86.487	0.033	0.3	0.0207	0.0000	OK
360 minute winter	5	8	86.206	0.000	0.3	0.0000	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 winter	1	1.000	2	0.1	0.352	0.004	0.0037	
360 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
360 minute winter	3	2.000	4	0.2	0.447	0.007	0.0110	
360 minute winter	4	Orifice	5	0.3				2.3

Results for 1 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 98.14%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	200	90.457	0.007	0.1	0.0016	0.0000	OK
480 minute summer	2	224	90.256	0.007	0.1	0.0012	0.0000	OK
480 minute summer	3	232	90.532	0.009	0.2	0.0030	0.0000	OK
480 minute summer	4	232	86.487	0.033	0.3	0.0207	0.0000	OK
480 minute summer	5	8	86.206	0.000	0.3	0.0000	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	0.1	0.352	0.004	0.0037	
480 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
480 minute summer	3	2.000	4	0.2	0.447	0.007	0.0110	
480 minute summer	4	Orifice	5	0.3				1.9

Results for 1 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 98.16%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	176	90.457	0.007	0.1	0.0016	0.0000	OK
480 minute winter	2	216	90.256	0.007	0.1	0.0012	0.0000	OK
480 minute winter	3	224	90.532	0.009	0.2	0.0030	0.0000	OK
480 minute winter	4	224	86.487	0.033	0.3	0.0207	0.0000	OK
480 minute winter	5	8	86.206	0.000	0.3	0.0000	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 winter	1	1.000	2	0.1	0.352	0.004	0.0037	
480 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
480 minute winter	3	2.000	4	0.2	0.447	0.007	0.0110	
480 minute winter	4	Orifice	5	0.3				2.6

Results for 1 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 98.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	270	90.457	0.007	0.1	0.0016	0.0000	OK
600 minute summer	2	285	90.256	0.007	0.1	0.0012	0.0000	OK
600 minute summer	3	300	90.532	0.009	0.2	0.0030	0.0000	OK
600 minute summer	4	300	86.487	0.033	0.3	0.0207	0.0000	OK
600 minute summer	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
600 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
600 minute summer	3	2.000	4	0.2	0.446	0.007	0.0109	
600 minute summer	4	Orifice	5	0.3				2.1

Results for 1 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 96.02%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	240	90.457	0.007	0.1	0.0016	0.0000	OK
600 minute winter	2	240	90.256	0.007	0.1	0.0011	0.0000	OK
600 minute winter	3	225	90.530	0.007	0.1	0.0022	0.0000	OK
600 minute winter	4	240	86.479	0.025	0.2	0.0158	0.0000	OK
600 minute winter	5	15	86.206	0.000	0.2	0.0000	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 winter	1	1.000	2	0.1	0.328	0.004	0.0037	
600 minute winter	2	1.001	4	0.1	0.322	0.004	0.0041	
600 minute winter	3	2.000	4	0.1	0.367	0.004	0.0069	
600 minute winter	4	Orifice	5	0.2				2.4

Results for 1 year 720 minute summer. 960 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	330	90.457	0.007	0.1	0.0016	0.0000	OK
720 minute summer	2	360	90.256	0.007	0.1	0.0012	0.0000	OK
720 minute summer	3	375	90.532	0.009	0.2	0.0030	0.0000	OK
720 minute summer	4	375	86.487	0.033	0.3	0.0207	0.0000	OK
720 minute summer	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
720 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
720 minute summer	3	2.000	4	0.2	0.446	0.007	0.0109	
720 minute summer	4	Orifice	5	0.3				2.2

Results for 1 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 96.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	300	90.457	0.007	0.1	0.0016	0.0000	OK
720 minute winter	2	300	90.256	0.007	0.1	0.0011	0.0000	OK
720 minute winter	3	285	90.530	0.007	0.1	0.0022	0.0000	OK
720 minute winter	4	300	86.479	0.025	0.2	0.0158	0.0000	OK
720 minute winter	5	15	86.206	0.000	0.2	0.0000	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	0.1	0.328	0.004	0.0037	
720 minute winter	2	1.001	4	0.1	0.322	0.004	0.0041	
720 minute winter	3	2.000	4	0.1	0.367	0.004	0.0069	
720 minute winter	4	Orifice	5	0.2				2.6

Results for 1 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 96.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	435	90.457	0.007	0.1	0.0016	0.0000	OK
960 minute summer	2	435	90.256	0.007	0.1	0.0011	0.0000	OK
960 minute summer	3	420	90.530	0.007	0.1	0.0022	0.0000	OK
960 minute summer	4	435	86.479	0.025	0.2	0.0158	0.0000	OK
960 minute summer	5	15	86.206	0.000	0.2	0.0000	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	0.1	0.328	0.004	0.0037	
960 minute summer	2	1.001	4	0.1	0.322	0.004	0.0041	
960 minute summer	3	2.000	4	0.1	0.367	0.004	0.0069	
960 minute summer	4	Orifice	5	0.2				2.3

Results for 1 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 96.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	420	90.457	0.007	0.1	0.0016	0.0000	OK
960 minute winter	2	420	90.256	0.007	0.1	0.0011	0.0000	OK
960 minute winter	3	405	90.530	0.007	0.1	0.0022	0.0000	OK
960 minute winter	4	420	86.479	0.025	0.2	0.0158	0.0000	OK
960 minute winter	5	15	86.206	0.000	0.2	0.0000	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	0.1	0.328	0.004	0.0037	
960 minute winter	2	1.001	4	0.1	0.322	0.004	0.0041	
960 minute winter	3	2.000	4	0.1	0.367	0.004	0.0069	
960 minute winter	4	Orifice	5	0.2				3.0

Results for 1 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 97.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	720	90.457	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	2	720	90.256	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	3	690	90.530	0.007	0.1	0.0022	0.0000	OK
1440 minute summer	4	720	86.479	0.025	0.2	0.0158	0.0000	OK
1440 minute summer	5	30	86.206	0.000	0.2	0.0000	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	0.1	0.326	0.004	0.0036	
1440 minute summer	2	1.001	4	0.1	0.320	0.004	0.0040	
1440 minute summer	3	2.000	4	0.1	0.367	0.004	0.0069	
1440 minute summer	4	Orifice	5	0.2				2.5

Results for 1 year 1440 minute winter. 1680 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	750	90.457	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	2	750	90.256	0.007	0.1	0.0011	0.0000	OK
1440 minute winter	3	720	90.530	0.007	0.1	0.0022	0.0000	OK
1440 minute winter	4	750	86.479	0.025	0.2	0.0158	0.0000	OK
1440 minute winter	5	30	86.206	0.000	0.2	0.0000	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	0.1	0.326	0.004	0.0036	
1440 minute winter	2	1.001	4	0.1	0.320	0.004	0.0040	
1440 minute winter	3	2.000	4	0.1	0.367	0.004	0.0069	
1440 minute winter	4	Orifice	5	0.2				2.5

Results for 2 year 15 minute summer. 1455 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	10	90.470	0.020	0.8	0.0042	0.0000	OK
15 minute summer	2	11	90.268	0.019	0.8	0.0031	0.0000	OK
15 minute summer	3	11	90.545	0.022	1.3	0.0073	0.0000	OK
15 minute summer	4	13	86.775	0.321	2.1	0.2043	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	1.3	0.0000	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	0.8	0.620	0.035	0.0158	
15 minute summer	2	1.001	4	0.8	0.607	0.034	0.0176	
15 minute summer	3	2.000	4	1.3	0.794	0.047	0.0411	
15 minute summer	4	Orifice	5	1.3				0.9

Results for 2 year 15 minute winter. 1455 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	10	90.469	0.019	0.8	0.0042	0.0000	OK
15 minute winter	2	11	90.268	0.019	0.8	0.0031	0.0000	OK
15 minute winter	3	10	90.546	0.023	1.4	0.0074	0.0000	OK
15 minute winter	4	14	86.818	0.364	2.1	0.2315	0.0000	SURCHARGED
15 minute winter	5	1	86.206	0.000	1.3	0.0000	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	0.8	0.615	0.035	0.0159	
15 minute winter	2	1.001	4	0.8	0.608	0.035	0.0176	
15 minute winter	3	2.000	4	1.3	0.802	0.049	0.0421	
15 minute winter	4	Orifice	5	1.3				1.0

Results for 2 year 30 minute summer. 1470 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	17	90.468	0.018	0.7	0.0040	0.0000	OK
30 minute summer	2	19	90.267	0.018	0.7	0.0029	0.0000	OK
30 minute summer	3	18	90.545	0.022	1.2	0.0070	0.0000	OK
30 minute summer	4	21	86.777	0.323	1.9	0.2053	0.0000	SURCHARGED
30 minute summer	5	1	86.206	0.000	1.3	0.0000	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	0.7	0.590	0.030	0.0144	
30 minute summer	2	1.001	4	0.7	0.584	0.030	0.0161	
30 minute summer	3	2.000	4	1.2	0.774	0.044	0.0388	
30 minute summer	4	Orifice	5	1.3				1.2

Results for 2 year 30 minute winter. 1470 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	18	90.468	0.018	0.7	0.0040	0.0000	OK
30 minute winter	2	18	90.267	0.018	0.7	0.0029	0.0000	OK
30 minute winter	3	19	90.544	0.021	1.1	0.0067	0.0000	OK
30 minute winter	4	22	86.791	0.337	1.8	0.2143	0.0000	SURCHARGED
30 minute winter	5	1	86.206	0.000	1.3	0.0000	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	0.7	0.584	0.030	0.0144	
30 minute winter	2	1.001	4	0.7	0.580	0.030	0.0158	
30 minute winter	3	2.000	4	1.1	0.756	0.040	0.0366	
30 minute winter	4	Orifice	5	1.3				1.4

Results for 2 year 60 minute summer. 1500 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	32	90.467	0.017	0.6	0.0037	0.0000	OK
60 minute summer	2	34	90.266	0.017	0.6	0.0027	0.0000	OK
60 minute summer	3	33	90.543	0.020	1.0	0.0064	0.0000	OK
60 minute summer	4	37	86.736	0.282	1.6	0.1794	0.0000	SURCHARGED
60 minute summer	5	1	86.206	0.000	1.2	0.0000	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	0.6	0.561	0.026	0.0129	
60 minute summer	2	1.001	4	0.6	0.558	0.026	0.0144	
60 minute summer	3	2.000	4	1.0	0.733	0.036	0.0340	
60 minute summer	4	Orifice	5	1.2				1.7

Results for 2 year 60 minute winter. 1500 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	32	90.466	0.016	0.5	0.0034	0.0000	OK
60 minute winter	2	34	90.264	0.015	0.5	0.0025	0.0000	OK
60 minute winter	3	34	90.541	0.018	0.8	0.0058	0.0000	OK
60 minute winter	4	39	86.694	0.240	1.3	0.1525	0.0000	SURCHARGED
60 minute winter	5	1	86.206	0.000	1.1	0.0000	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	0.5	0.532	0.022	0.0114	
60 minute winter	2	1.001	4	0.5	0.528	0.022	0.0127	
60 minute winter	3	2.000	4	0.8	0.686	0.029	0.0293	
60 minute winter	4	Orifice	5	1.1				1.8

Results for 2 year 120 minute summer. 1560 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	62	90.464	0.014	0.4	0.0030	0.0000	OK
120 minute summer	2	66	90.263	0.014	0.4	0.0022	0.0000	OK
120 minute summer	3	64	90.540	0.017	0.7	0.0054	0.0000	OK
120 minute summer	4	68	86.644	0.190	1.1	0.1208	0.0000	SURCHARGED
120 minute summer	5	2	86.206	0.000	0.9	0.0000	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	0.4	0.496	0.017	0.0097	
120 minute summer	2	1.001	4	0.4	0.495	0.017	0.0108	
120 minute summer	3	2.000	4	0.7	0.659	0.026	0.0267	
120 minute summer	4	Orifice	5	0.9				2.1

Results for 2 year 120 minute winter. 1560 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	56	90.462	0.012	0.3	0.0026	0.0000	OK
120 minute winter	2	60	90.261	0.012	0.3	0.0019	0.0000	OK
120 minute winter	3	64	90.537	0.014	0.5	0.0046	0.0000	OK
120 minute winter	4	72	86.583	0.129	0.8	0.0821	0.0000	OK
120 minute winter	5	2	86.206	0.000	0.8	0.0000	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 winter	1	1.000	2	0.3	0.454	0.013	0.0080	
120 minute winter	2	1.001	4	0.3	0.453	0.013	0.0089	
120 minute winter	3	2.000	4	0.5	0.597	0.018	0.0211	
120 minute winter	4	Orifice	5	0.8				2.5

Results for 2 year 180 minute summer. 1620 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	92	90.462	0.012	0.3	0.0026	0.0000	OK
180 minute summer	2	96	90.261	0.012	0.3	0.0019	0.0000	OK
180 minute summer	3	96	90.537	0.014	0.5	0.0046	0.0000	OK
180 minute summer	4	100	86.581	0.127	0.8	0.0807	0.0000	OK
180 minute summer	5	4	86.206	0.000	0.8	0.0000	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	0.3	0.454	0.013	0.0080	
180 minute summer	2	1.001	4	0.3	0.453	0.013	0.0089	
180 minute summer	3	2.000	4	0.5	0.597	0.018	0.0211	
180 minute summer	4	Orifice	5	0.8				2.3

Results for 2 year 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 98.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	76	90.460	0.010	0.2	0.0022	0.0000	OK
180 minute winter	2	80	90.259	0.010	0.2	0.0016	0.0000	OK
180 minute winter	3	88	90.536	0.013	0.4	0.0041	0.0000	OK
180 minute winter	4	88	86.533	0.079	0.6	0.0505	0.0000	OK
180 minute winter	5	4	86.206	0.000	0.6	0.0000	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 winter	1	1.000	2	0.2	0.415	0.009	0.0060	
180 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
180 minute winter	3	2.000	4	0.4	0.558	0.015	0.0180	
180 minute winter	4	Orifice	5	0.6				2.7

Results for 2 year 240 minute summer. 1680 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	124	90.462	0.012	0.3	0.0026	0.0000	OK
240 minute summer	2	128	90.261	0.012	0.3	0.0019	0.0000	OK
240 minute summer	3	132	90.536	0.013	0.4	0.0041	0.0000	OK
240 minute summer	4	128	86.548	0.094	0.7	0.0595	0.0000	OK
240 minute summer	5	4	86.206	0.000	0.6	0.0000	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	0.3	0.454	0.012	0.0076	
240 minute summer	2	1.001	4	0.3	0.445	0.012	0.0085	
240 minute summer	3	2.000	4	0.4	0.558	0.015	0.0180	
240 minute summer	4	Orifice	5	0.6				2.4

Results for 2 year 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 98.15%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	108	90.460	0.010	0.2	0.0022	0.0000	OK
240 minute winter	2	112	90.259	0.010	0.2	0.0016	0.0000	OK
240 minute winter	3	112	90.534	0.011	0.3	0.0036	0.0000	OK
240 minute winter	4	112	86.514	0.060	0.5	0.0383	0.0000	OK
240 minute winter	5	4	86.206	0.000	0.5	0.0000	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 winter	1	1.000	2	0.2	0.415	0.009	0.0060	
240 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
240 minute winter	3	2.000	4	0.3	0.510	0.011	0.0148	
240 minute winter	4	Orifice	5	0.5				2.9

Results for 2 year 360 minute summer. 1800 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	184	90.460	0.010	0.2	0.0022	0.0000	OK
360 minute summer	2	184	90.259	0.010	0.2	0.0016	0.0000	OK
360 minute summer	3	184	90.534	0.011	0.3	0.0036	0.0000	OK
360 minute summer	4	184	86.514	0.060	0.5	0.0383	0.0000	OK
360 minute summer	5	8	86.206	0.000	0.5	0.0000	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	0.2	0.402	0.009	0.0060	
360 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
360 minute summer	3	2.000	4	0.3	0.510	0.011	0.0148	
360 minute summer	4	Orifice	5	0.5				2.3

Results for 2 year 360 minute winter. 1800 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	184	90.460	0.010	0.2	0.0022	0.0000	OK
360 minute winter	2	184	90.259	0.010	0.2	0.0015	0.0000	OK
360 minute winter	3	184	90.534	0.011	0.3	0.0036	0.0000	OK
360 minute winter	4	184	86.503	0.049	0.5	0.0313	0.0000	OK
360 minute winter	5	8	86.206	0.000	0.4	0.0000	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 winter	1	1.000	2	0.2	0.402	0.008	0.0057	
360 minute winter	2	1.001	4	0.2	0.386	0.008	0.0062	
360 minute winter	3	2.000	4	0.3	0.504	0.011	0.0144	
360 minute winter	4	Orifice	5	0.4				2.8

Results for 2 year 480 minute summer. 1920 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	248	90.460	0.010	0.2	0.0022	0.0000	OK
480 minute summer	2	248	90.259	0.010	0.2	0.0016	0.0000	OK
480 minute summer	3	248	90.534	0.011	0.3	0.0036	0.0000	OK
480 minute summer	4	248	86.514	0.060	0.5	0.0383	0.0000	OK
480 minute summer	5	8	86.206	0.000	0.5	0.0000	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	0.2	0.402	0.009	0.0060	
480 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
480 minute summer	3	2.000	4	0.3	0.510	0.011	0.0148	
480 minute summer	4	Orifice	5	0.5				2.6

Results for 2 year 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 97.46%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	168	90.457	0.007	0.1	0.0016	0.0000	OK
480 minute winter	2	200	90.256	0.007	0.1	0.0012	0.0000	OK
480 minute winter	3	208	90.532	0.009	0.2	0.0030	0.0000	OK
480 minute winter	4	208	86.487	0.033	0.3	0.0207	0.0000	OK
480 minute winter	5	8	86.206	0.000	0.3	0.0000	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 winter	1	1.000	2	0.1	0.352	0.004	0.0037	
480 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
480 minute winter	3	2.000	4	0.2	0.447	0.007	0.0110	
480 minute winter	4	Orifice	5	0.3				3.0

Results for 2 year 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 98.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	255	90.457	0.007	0.1	0.0016	0.0000	OK
600 minute summer	2	285	90.256	0.007	0.1	0.0012	0.0000	OK
600 minute summer	3	300	90.532	0.009	0.2	0.0030	0.0000	OK
600 minute summer	4	300	86.487	0.033	0.3	0.0207	0.0000	OK
600 minute summer	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
600 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
600 minute summer	3	2.000	4	0.2	0.446	0.007	0.0109	
600 minute summer	4	Orifice	5	0.3				2.5

Results for 2 year 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 98.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	225	90.457	0.007	0.1	0.0016	0.0000	OK
600 minute winter	2	270	90.256	0.007	0.1	0.0012	0.0000	OK
600 minute winter	3	285	90.532	0.009	0.2	0.0030	0.0000	OK
600 minute winter	4	285	86.487	0.033	0.3	0.0207	0.0000	OK
600 minute winter	5	15	86.206	0.000	0.3	0.0000	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 winter	1	1.000	2	0.1	0.328	0.004	0.0037	
600 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
600 minute winter	3	2.000	4	0.2	0.446	0.007	0.0109	
600 minute winter	4	Orifice	5	0.3				3.4

Results for 2 year 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 98.46%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	315	90.457	0.007	0.1	0.0016	0.0000	OK
720 minute summer	2	345	90.256	0.007	0.1	0.0012	0.0000	OK
720 minute summer	3	360	90.532	0.009	0.2	0.0030	0.0000	OK
720 minute summer	4	360	86.487	0.033	0.3	0.0207	0.0000	OK
720 minute summer	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
720 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
720 minute summer	3	2.000	4	0.2	0.446	0.007	0.0109	
720 minute summer	4	Orifice	5	0.3				2.7

Results for 2 year 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 98.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	285	90.457	0.007	0.1	0.0016	0.0000	OK
720 minute winter	2	345	90.256	0.007	0.1	0.0012	0.0000	OK
720 minute winter	3	360	90.532	0.009	0.2	0.0030	0.0000	OK
720 minute winter	4	360	86.487	0.033	0.3	0.0207	0.0000	OK
720 minute winter	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
720 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
720 minute winter	3	2.000	4	0.2	0.446	0.007	0.0109	
720 minute winter	4	Orifice	5	0.3				3.6

Results for 2 year 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 98.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	420	90.457	0.007	0.1	0.0016	0.0000	OK
960 minute summer	2	465	90.256	0.007	0.1	0.0012	0.0000	OK
960 minute summer	3	480	90.532	0.009	0.2	0.0030	0.0000	OK
960 minute summer	4	480	86.487	0.033	0.3	0.0207	0.0000	OK
960 minute summer	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
960 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
960 minute summer	3	2.000	4	0.2	0.446	0.007	0.0109	
960 minute summer	4	Orifice	5	0.3				3.0

Results for 2 year 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 96.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	390	90.457	0.007	0.1	0.0016	0.0000	OK
960 minute winter	2	390	90.256	0.007	0.1	0.0011	0.0000	OK
960 minute winter	3	375	90.530	0.007	0.1	0.0022	0.0000	OK
960 minute winter	4	390	86.479	0.025	0.2	0.0158	0.0000	OK
960 minute winter	5	15	86.206	0.000	0.2	0.0000	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	0.1	0.328	0.004	0.0037	
960 minute winter	2	1.001	4	0.1	0.322	0.004	0.0041	
960 minute winter	3	2.000	4	0.1	0.367	0.004	0.0069	
960 minute winter	4	Orifice	5	0.2				3.5

Results for 2 year 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 96.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	690	90.457	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	2	690	90.256	0.007	0.1	0.0011	0.0000	OK
1440 minute summer	3	660	90.530	0.007	0.1	0.0022	0.0000	OK
1440 minute summer	4	690	86.479	0.025	0.2	0.0158	0.0000	OK
1440 minute summer	5	30	86.206	0.000	0.2	0.0000	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	0.1	0.326	0.004	0.0036	
1440 minute summer	2	1.001	4	0.1	0.320	0.004	0.0040	
1440 minute summer	3	2.000	4	0.1	0.367	0.004	0.0069	
1440 minute summer	4	Orifice	5	0.2				2.8

Results for 2 year 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 97.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	90.457	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	2	690	90.256	0.007	0.1	0.0011	0.0000	OK
1440 minute winter	3	660	90.530	0.007	0.1	0.0022	0.0000	OK
1440 minute winter	4	690	86.479	0.025	0.2	0.0158	0.0000	OK
1440 minute winter	5	30	86.206	0.000	0.2	0.0000	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	0.1	0.326	0.004	0.0036	
1440 minute winter	2	1.001	4	0.1	0.320	0.004	0.0040	
1440 minute winter	3	2.000	4	0.1	0.367	0.004	0.0069	
1440 minute winter	4	Orifice	5	0.2				3.9

Results for 30 year 15 minute summer. 255 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	10	90.476	0.026	1.5	0.0057	0.0000	OK
15 minute summer	2	11	90.275	0.026	1.5	0.0041	0.0000	OK
15 minute summer	3	10	90.554	0.031	2.5	0.0100	0.0000	OK
15 minute summer	4	14	87.220	0.766	3.9	0.4869	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	2.0	0.0000	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	1.5	0.726	0.064	0.0244	
15 minute summer	2	1.001	4	1.5	0.725	0.063	0.0270	
15 minute summer	3	2.000	4	2.4	0.955	0.089	0.0645	
15 minute summer	4	Orifice	5	2.0				1.7

Results for 30 year 15 minute winter. 255 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	10	90.477	0.027	1.6	0.0059	0.0000	OK
15 minute winter	2	11	90.276	0.027	1.6	0.0043	0.0000	OK
15 minute winter	3	10	90.554	0.031	2.6	0.0102	0.0000	OK
15 minute winter	4	14	87.309	0.855	4.1	0.5439	0.0000	SURCHARGED
15 minute winter	5	1	86.206	0.000	2.1	0.0000	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	1.6	0.740	0.068	0.0255	
15 minute winter	2	1.001	4	1.6	0.739	0.067	0.0283	
15 minute winter	3	2.000	4	2.6	0.966	0.093	0.0664	
15 minute winter	4	Orifice	5	2.1				2.0

Results for 30 year 30 minute summer. 270 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	18	90.476	0.026	1.4	0.0055	0.0000	OK
30 minute summer	2	18	90.274	0.025	1.4	0.0040	0.0000	OK
30 minute summer	3	18	90.553	0.030	2.4	0.0098	0.0000	OK
30 minute summer	4	22	87.269	0.815	3.8	0.5182	0.0000	SURCHARGED
30 minute summer	5	1	86.206	0.000	2.0	0.0000	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	1.4	0.713	0.061	0.0236	
30 minute summer	2	1.001	4	1.4	0.715	0.060	0.0261	
30 minute summer	3	2.000	4	2.4	0.949	0.087	0.0634	
30 minute summer	4	Orifice	5	2.0				2.4

Results for 30 year 30 minute winter. 270 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	18	90.475	0.025	1.3	0.0053	0.0000	OK
30 minute winter	2	18	90.274	0.025	1.3	0.0039	0.0000	OK
30 minute winter	3	18	90.551	0.028	2.1	0.0092	0.0000	OK
30 minute winter	4	23	87.306	0.852	3.4	0.5418	0.0000	SURCHARGED
30 minute winter	5	1	86.206	0.000	2.1	0.0000	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	1.3	0.696	0.056	0.0224	
30 minute winter	2	1.001	4	1.3	0.700	0.056	0.0248	
30 minute winter	3	2.000	4	2.1	0.913	0.077	0.0578	
30 minute winter	4	Orifice	5	2.1				2.6

Results for 30 year 60 minute summer. 300 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	33	90.473	0.023	1.1	0.0049	0.0000	OK
60 minute summer	2	33	90.272	0.023	1.1	0.0036	0.0000	OK
60 minute summer	3	33	90.549	0.026	1.8	0.0085	0.0000	OK
60 minute summer	4	38	87.156	0.702	2.9	0.4465	0.0000	SURCHARGED
60 minute summer	5	1	86.206	0.000	1.9	0.0000	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	1.1	0.664	0.048	0.0198	
60 minute summer	2	1.001	4	1.1	0.666	0.047	0.0219	
60 minute summer	3	2.000	4	1.8	0.872	0.066	0.0518	
60 minute summer	4	Orifice	5	1.9				3.1

Results for 30 year 60 minute winter. 300 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	32	90.471	0.021	0.9	0.0045	0.0000	OK
60 minute winter	2	34	90.270	0.021	0.9	0.0033	0.0000	OK
60 minute winter	3	34	90.547	0.024	1.5	0.0078	0.0000	OK
60 minute winter	4	39	87.133	0.679	2.4	0.4317	0.0000	SURCHARGED
60 minute winter	5	1	86.206	0.000	1.8	0.0000	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	0.9	0.627	0.039	0.0172	
60 minute winter	2	1.001	4	0.9	0.630	0.039	0.0192	
60 minute winter	3	2.000	4	1.5	0.828	0.055	0.0456	
60 minute winter	4	Orifice	5	1.8				3.6

Results for 30 year 120 minute summer. 360 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	64	90.469	0.019	0.8	0.0042	0.0000	OK
120 minute summer	2	64	90.268	0.019	0.8	0.0031	0.0000	OK
120 minute summer	3	64	90.545	0.022	1.3	0.0073	0.0000	OK
120 minute summer	4	68	86.967	0.513	2.1	0.3261	0.0000	SURCHARGED
120 minute summer	5	2	86.206	0.000	1.6	0.0000	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	0.8	0.605	0.035	0.0159	
120 minute summer	2	1.001	4	0.8	0.608	0.035	0.0176	
120 minute summer	3	2.000	4	1.3	0.794	0.047	0.0412	
120 minute summer	4	Orifice	5	1.6				4.0

Results for 30 year 120 minute winter. 360 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	62	90.467	0.017	0.6	0.0037	0.0000	OK
120 minute winter	2	64	90.266	0.017	0.6	0.0027	0.0000	OK
120 minute winter	3	64	90.543	0.020	1.0	0.0064	0.0000	OK
120 minute winter	4	72	86.851	0.397	1.6	0.2524	0.0000	SURCHARGED
120 minute winter	5	2	86.206	0.000	1.4	0.0000	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 winter	1	1.000	2	0.6	0.557	0.026	0.0129	
120 minute winter	2	1.001	4	0.6	0.558	0.026	0.0144	
120 minute winter	3	2.000	4	1.0	0.735	0.037	0.0342	
120 minute winter	4	Orifice	5	1.4				4.5

Results for 30 year 180 minute summer. 420 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	96	90.467	0.017	0.6	0.0037	0.0000	OK
180 minute summer	2	96	90.266	0.017	0.6	0.0027	0.0000	OK
180 minute summer	3	96	90.543	0.020	1.0	0.0064	0.0000	OK
180 minute summer	4	100	86.841	0.387	1.6	0.2462	0.0000	SURCHARGED
180 minute summer	5	4	86.206	0.000	1.4	0.0000	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	0.6	0.556	0.026	0.0129	
180 minute summer	2	1.001	4	0.6	0.558	0.026	0.0144	
180 minute summer	3	2.000	4	1.0	0.735	0.037	0.0342	
180 minute summer	4	Orifice	5	1.4				4.7

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.12%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	84	90.464	0.014	0.4	0.0030	0.0000	OK
180 minute winter	2	84	90.263	0.014	0.4	0.0022	0.0000	OK
180 minute winter	3	92	90.540	0.017	0.7	0.0054	0.0000	OK
180 minute winter	4	92	86.682	0.228	1.1	0.1451	0.0000	SURCHARGED
180 minute winter	5	4	86.206	0.000	1.0	0.0000	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 winter	1	1.000	2	0.4	0.495	0.017	0.0097	
180 minute winter	2	1.001	4	0.4	0.495	0.017	0.0108	
180 minute winter	3	2.000	4	0.7	0.660	0.026	0.0267	
180 minute winter	4	Orifice	5	1.0				5.0

Results for 30 year 240 minute summer. 480 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	124	90.465	0.015	0.5	0.0034	0.0000	OK
240 minute summer	2	124	90.264	0.015	0.5	0.0025	0.0000	OK
240 minute summer	3	124	90.541	0.018	0.8	0.0058	0.0000	OK
240 minute summer	4	132	86.756	0.302	1.3	0.1920	0.0000	SURCHARGED
240 minute summer	5	4	86.206	0.000	1.2	0.0000	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	0.5	0.527	0.022	0.0114	
240 minute summer	2	1.001	4	0.5	0.528	0.022	0.0127	
240 minute summer	3	2.000	4	0.8	0.686	0.029	0.0293	
240 minute summer	4	Orifice	5	1.2				5.1

Results for 30 year 240 minute winter. 480 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	124	90.464	0.014	0.4	0.0030	0.0000	OK
240 minute winter	2	128	90.263	0.014	0.4	0.0022	0.0000	OK
240 minute winter	3	120	90.539	0.016	0.6	0.0050	0.0000	OK
240 minute winter	4	132	86.646	0.192	1.0	0.1219	0.0000	SURCHARGED
240 minute winter	5	4	86.206	0.000	1.0	0.0000	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 winter	1	1.000	2	0.4	0.495	0.017	0.0097	
240 minute winter	2	1.001	4	0.4	0.495	0.017	0.0108	
240 minute winter	3	2.000	4	0.6	0.630	0.022	0.0240	
240 minute winter	4	Orifice	5	1.0				5.7

Results for 30 year 360 minute summer. 600 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	184	90.464	0.014	0.4	0.0030	0.0000	OK
360 minute summer	2	184	90.263	0.014	0.4	0.0022	0.0000	OK
360 minute summer	3	184	90.538	0.015	0.6	0.0050	0.0000	OK
360 minute summer	4	192	86.626	0.172	1.0	0.1093	0.0000	SURCHARGED
360 minute summer	5	8	86.206	0.000	0.9	0.0000	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	0.4	0.493	0.017	0.0096	
360 minute summer	2	1.001	4	0.4	0.490	0.017	0.0106	
360 minute summer	3	2.000	4	0.6	0.627	0.022	0.0237	
360 minute summer	4	Orifice	5	0.9				5.5

Results for 30 year 360 minute winter. 600 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	176	90.462	0.012	0.3	0.0026	0.0000	OK
360 minute winter	2	184	90.261	0.012	0.3	0.0019	0.0000	OK
360 minute winter	3	184	90.537	0.014	0.5	0.0046	0.0000	OK
360 minute winter	4	192	86.580	0.126	0.8	0.0799	0.0000	OK
360 minute winter	5	8	86.206	0.000	0.8	0.0000	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 winter	1	1.000	2	0.3	0.452	0.013	0.0080	
360 minute winter	2	1.001	4	0.3	0.453	0.013	0.0089	
360 minute winter	3	2.000	4	0.5	0.593	0.018	0.0208	
360 minute winter	4	Orifice	5	0.8				6.2

Results for 30 year 480 minute summer. 720 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	248	90.462	0.012	0.3	0.0026	0.0000	OK
480 minute summer	2	240	90.261	0.012	0.3	0.0019	0.0000	OK
480 minute summer	3	248	90.537	0.014	0.5	0.0046	0.0000	OK
480 minute summer	4	248	86.582	0.128	0.8	0.0817	0.0000	OK
480 minute summer	5	8	86.206	0.000	0.8	0.0000	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	0.3	0.452	0.013	0.0080	
480 minute summer	2	1.001	4	0.3	0.453	0.013	0.0089	
480 minute summer	3	2.000	4	0.5	0.596	0.018	0.0211	
480 minute summer	4	Orifice	5	0.8				5.7

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	200	90.460	0.010	0.2	0.0022	0.0000	OK
480 minute winter	2	232	90.259	0.010	0.2	0.0016	0.0000	OK
480 minute winter	3	240	90.536	0.013	0.4	0.0041	0.0000	OK
480 minute winter	4	240	86.533	0.079	0.6	0.0505	0.0000	OK
480 minute winter	5	8	86.206	0.000	0.6	0.0000	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 winter	1	1.000	2	0.2	0.402	0.009	0.0060	
480 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
480 minute winter	3	2.000	4	0.4	0.558	0.015	0.0180	
480 minute winter	4	Orifice	5	0.6				6.7

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.47%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	285	90.460	0.010	0.2	0.0022	0.0000	OK
600 minute summer	2	300	90.259	0.010	0.2	0.0016	0.0000	OK
600 minute summer	3	315	90.536	0.013	0.4	0.0041	0.0000	OK
600 minute summer	4	315	86.533	0.079	0.6	0.0505	0.0000	OK
600 minute summer	5	15	86.206	0.000	0.6	0.0000	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	0.2	0.400	0.009	0.0060	
600 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
600 minute summer	3	2.000	4	0.4	0.556	0.014	0.0179	
600 minute summer	4	Orifice	5	0.6				5.7

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 98.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	285	90.460	0.010	0.2	0.0022	0.0000	OK
600 minute winter	2	285	90.259	0.010	0.2	0.0016	0.0000	OK
600 minute winter	3	285	90.534	0.011	0.3	0.0036	0.0000	OK
600 minute winter	4	285	86.514	0.060	0.5	0.0383	0.0000	OK
600 minute winter	5	15	86.206	0.000	0.5	0.0000	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 winter	1	1.000	2	0.2	0.400	0.009	0.0060	
600 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
600 minute winter	3	2.000	4	0.3	0.509	0.011	0.0148	
600 minute winter	4	Orifice	5	0.5				7.1

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	345	90.460	0.010	0.2	0.0022	0.0000	OK
720 minute summer	2	360	90.259	0.010	0.2	0.0016	0.0000	OK
720 minute summer	3	375	90.536	0.013	0.4	0.0041	0.0000	OK
720 minute summer	4	375	86.533	0.079	0.6	0.0505	0.0000	OK
720 minute summer	5	15	86.206	0.000	0.6	0.0000	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	0.2	0.400	0.009	0.0060	
720 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
720 minute summer	3	2.000	4	0.4	0.556	0.014	0.0179	
720 minute summer	4	Orifice	5	0.6				5.9

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 98.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	345	90.460	0.010	0.2	0.0022	0.0000	OK
720 minute winter	2	345	90.259	0.010	0.2	0.0016	0.0000	OK
720 minute winter	3	345	90.534	0.011	0.3	0.0036	0.0000	OK
720 minute winter	4	345	86.514	0.060	0.5	0.0383	0.0000	OK
720 minute winter	5	15	86.206	0.000	0.5	0.0000	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	0.2	0.400	0.009	0.0060	
720 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
720 minute winter	3	2.000	4	0.3	0.509	0.011	0.0148	
720 minute winter	4	Orifice	5	0.5				7.1

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 98.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	480	90.460	0.010	0.2	0.0022	0.0000	OK
960 minute summer	2	480	90.259	0.010	0.2	0.0016	0.0000	OK
960 minute summer	3	480	90.534	0.011	0.3	0.0036	0.0000	OK
960 minute summer	4	480	86.514	0.060	0.5	0.0383	0.0000	OK
960 minute summer	5	15	86.206	0.000	0.5	0.0000	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	0.2	0.400	0.009	0.0060	
960 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
960 minute summer	3	2.000	4	0.3	0.509	0.011	0.0148	
960 minute summer	4	Orifice	5	0.5				5.9

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 97.41%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	315	90.457	0.007	0.1	0.0016	0.0000	OK
960 minute winter	2	390	90.256	0.007	0.1	0.0012	0.0000	OK
960 minute winter	3	405	90.532	0.009	0.2	0.0030	0.0000	OK
960 minute winter	4	405	86.487	0.033	0.3	0.0207	0.0000	OK
960 minute winter	5	15	86.206	0.000	0.3	0.0000	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	0.1	0.328	0.004	0.0037	
960 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
960 minute winter	3	2.000	4	0.2	0.446	0.007	0.0109	
960 minute winter	4	Orifice	5	0.3				6.5

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 97.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	660	90.457	0.007	0.1	0.0016	0.0000	OK
1440 minute summer	2	660	90.256	0.007	0.1	0.0012	0.0000	OK
1440 minute summer	3	660	90.532	0.009	0.2	0.0030	0.0000	OK
1440 minute summer	4	660	86.487	0.032	0.3	0.0207	0.0000	OK
1440 minute summer	5	30	86.206	0.000	0.3	0.0000	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	0.1	0.326	0.004	0.0037	
1440 minute summer	2	1.001	4	0.1	0.325	0.004	0.0041	
1440 minute summer	3	2.000	4	0.2	0.445	0.007	0.0109	
1440 minute summer	4	Orifice	5	0.3				5.6

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 98.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	660	90.457	0.007	0.1	0.0016	0.0000	OK
1440 minute winter	2	660	90.256	0.007	0.1	0.0012	0.0000	OK
1440 minute winter	3	660	90.532	0.009	0.2	0.0030	0.0000	OK
1440 minute winter	4	660	86.487	0.032	0.3	0.0207	0.0000	OK
1440 minute winter	5	30	86.206	0.000	0.3	0.0000	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	0.1	0.326	0.004	0.0037	
1440 minute winter	2	1.001	4	0.1	0.325	0.004	0.0041	
1440 minute winter	3	2.000	4	0.2	0.445	0.007	0.0109	
1440 minute winter	4	Orifice	5	0.3				7.8

Results for 100 year +40% CC 15 minute summer. 255 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	10	90.485	0.035	2.7	0.0077	0.0000	OK
15 minute summer	2	11	90.284	0.035	2.7	0.0056	0.0000	OK
15 minute summer	3	10	90.565	0.042	4.5	0.0135	0.0000	OK
15 minute summer	4	14	88.070	1.616	7.1	1.0281	0.0000	SURCHARGED
15 minute summer	5	1	86.206	0.000	2.9	0.0000	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	2.7	0.852	0.116	0.0377	
15 minute summer	2	1.001	4	2.7	0.861	0.115	0.0414	
15 minute summer	3	2.000	4	4.4	1.129	0.162	0.0986	
15 minute summer	4	Orifice	5	2.9				3.1

Results for 100 year +40% CC 15 minute winter. 255 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	10	90.486	0.036	2.8	0.0078	0.0000	OK
15 minute winter	2	11	90.285	0.036	2.8	0.0057	0.0000	OK
15 minute winter	3	10	90.566	0.043	4.7	0.0138	0.0000	OK
15 minute winter	4	15	88.273	1.819	7.4	1.1569	0.0000	SURCHARGED
15 minute winter	5	1	86.206	0.000	3.1	0.0000	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	2.8	0.860	0.121	0.0387	
15 minute winter	2	1.001	4	2.8	0.870	0.119	0.0425	
15 minute winter	3	2.000	4	4.6	1.144	0.169	0.1018	
15 minute winter	4	Orifice	5	3.1				3.5

Results for 100 year +40% CC 30 minute summer. 270 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	18	90.485	0.035	2.6	0.0076	0.0000	OK
30 minute summer	2	18	90.284	0.035	2.6	0.0055	0.0000	OK
30 minute summer	3	18	90.564	0.041	4.3	0.0132	0.0000	OK
30 minute summer	4	22	88.259	1.805	6.9	1.1482	0.0000	SURCHARGED
30 minute summer	5	1	86.206	0.000	3.0	0.0000	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	2.6	0.845	0.113	0.0369	
30 minute summer	2	1.001	4	2.6	0.854	0.112	0.0407	
30 minute summer	3	2.000	4	4.3	1.121	0.157	0.0964	
30 minute summer	4	Orifice	5	3.0				4.3

Results for 100 year +40% CC 30 minute winter. 270 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	18	90.483	0.033	2.3	0.0071	0.0000	OK
30 minute winter	2	18	90.282	0.033	2.3	0.0052	0.0000	OK
30 minute winter	3	18	90.562	0.039	3.9	0.0126	0.0000	OK
30 minute winter	4	23	88.415	1.961	6.2	1.2471	0.0000	SURCHARGED
30 minute winter	5	1	86.206	0.000	3.2	0.0000	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	2.3	0.815	0.100	0.0338	
30 minute winter	2	1.001	4	2.3	0.826	0.099	0.0373	
30 minute winter	3	2.000	4	3.9	1.090	0.142	0.0899	
30 minute winter	4	Orifice	5	3.2				4.9

Results for 100 year +40% CC 60 minute summer. 300 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	33	90.480	0.030	2.0	0.0066	0.0000	OK
60 minute summer	2	33	90.279	0.030	2.0	0.0048	0.0000	OK
60 minute summer	3	33	90.559	0.036	3.4	0.0117	0.0000	OK
60 minute summer	4	39	88.165	1.711	5.4	1.0880	0.0000	SURCHARGED
60 minute summer	5	1	86.206	0.000	3.0	0.0000	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	2.0	0.785	0.087	0.0305	
60 minute summer	2	1.001	4	2.0	0.794	0.086	0.0338	
60 minute summer	3	2.000	4	3.4	1.049	0.124	0.0815	
60 minute summer	4	Orifice	5	3.0				5.7

Results for 100 year +40% CC 60 minute winter. 300 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	31	90.477	0.027	1.6	0.0059	0.0000	OK
60 minute winter	2	33	90.276	0.027	1.6	0.0043	0.0000	OK
60 minute winter	3	33	90.555	0.032	2.7	0.0104	0.0000	OK
60 minute winter	4	41	88.154	1.700	4.3	1.0814	0.0000	SURCHARGED
60 minute winter	5	1	86.206	0.000	3.0	0.0000	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	1.6	0.737	0.069	0.0260	
60 minute winter	2	1.001	4	1.6	0.744	0.069	0.0288	
60 minute winter	3	2.000	4	2.7	0.983	0.099	0.0691	
60 minute winter	4	Orifice	5	3.0				6.5

Results for 100 year +40% CC 120 minute summer. 360 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	64	90.475	0.025	1.4	0.0055	0.0000	OK
120 minute summer	2	64	90.275	0.025	1.4	0.0041	0.0000	OK
120 minute summer	3	64	90.553	0.030	2.3	0.0096	0.0000	OK
120 minute summer	4	70	87.769	1.315	3.7	0.8361	0.0000	SURCHARGED
120 minute summer	5	2	86.206	0.000	2.6	0.0000	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	1.4	0.709	0.061	0.0236	
120 minute summer	2	1.001	4	1.4	0.716	0.061	0.0262	
120 minute summer	3	2.000	4	2.3	0.939	0.084	0.0616	
120 minute summer	4	Orifice	5	2.6				7.3

Results for 100 year +40% CC 120 minute winter. 360 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	64	90.473	0.023	1.1	0.0049	0.0000	OK
120 minute winter	2	64	90.272	0.023	1.1	0.0036	0.0000	OK
120 minute winter	3	64	90.549	0.026	1.8	0.0085	0.0000	OK
120 minute winter	4	74	87.571	1.117	2.9	0.7107	0.0000	SURCHARGED
120 minute winter	5	2	86.206	0.000	2.4	0.0000	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 winter	1	1.000	2	1.1	0.663	0.048	0.0199	
120 minute winter	2	1.001	4	1.1	0.668	0.048	0.0221	
120 minute winter	3	2.000	4	1.8	0.873	0.066	0.0519	
120 minute winter	4	Orifice	5	2.4				8.2

Results for 100 year +40% CC 180 minute summer. 420 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	96	90.473	0.023	1.1	0.0049	0.0000	OK
180 minute summer	2	96	90.272	0.023	1.1	0.0036	0.0000	OK
180 minute summer	3	96	90.549	0.026	1.8	0.0085	0.0000	OK
180 minute summer	4	100	87.489	1.035	2.9	0.6581	0.0000	SURCHARGED
180 minute summer	5	4	86.206	0.000	2.3	0.0000	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	1.1	0.663	0.048	0.0199	
180 minute summer	2	1.001	4	1.1	0.668	0.048	0.0221	
180 minute summer	3	2.000	4	1.8	0.873	0.066	0.0519	
180 minute summer	4	Orifice	5	2.3				8.4

Results for 100 year +40% CC 180 minute winter. 420 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	92	90.469	0.019	0.8	0.0042	0.0000	OK
180 minute winter	2	92	90.268	0.019	0.8	0.0031	0.0000	OK
180 minute winter	3	96	90.546	0.023	1.4	0.0075	0.0000	OK
180 minute winter	4	104	87.239	0.785	2.2	0.4991	0.0000	SURCHARGED
180 minute winter	5	4	86.206	0.000	2.0	0.0000	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 winter	1	1.000	2	0.8	0.604	0.035	0.0159	
180 minute winter	2	1.001	4	0.8	0.608	0.035	0.0177	
180 minute winter	3	2.000	4	1.4	0.812	0.051	0.0434	
180 minute winter	4	Orifice	5	2.0				9.3

Results for 100 year +40% CC 240 minute summer. 480 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	124	90.470	0.020	0.9	0.0044	0.0000	OK
240 minute summer	2	124	90.269	0.020	0.9	0.0032	0.0000	OK
240 minute summer	3	124	90.547	0.024	1.5	0.0078	0.0000	OK
240 minute summer	4	132	87.233	0.779	2.4	0.4955	0.0000	SURCHARGED
240 minute summer	5	4	86.206	0.000	2.0	0.0000	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	0.9	0.625	0.039	0.0171	
240 minute summer	2	1.001	4	0.9	0.625	0.038	0.0189	
240 minute summer	3	2.000	4	1.5	0.826	0.054	0.0453	
240 minute summer	4	Orifice	5	2.0				9.0

Results for 100 year +40% CC 240 minute winter. 480 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	124	90.468	0.018	0.7	0.0039	0.0000	OK
240 minute winter	2	124	90.267	0.018	0.7	0.0029	0.0000	OK
240 minute winter	3	124	90.544	0.021	1.1	0.0067	0.0000	OK
240 minute winter	4	136	87.030	0.576	1.8	0.3665	0.0000	SURCHARGED
240 minute winter	5	4	86.206	0.000	1.7	0.0000	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 winter	1	1.000	2	0.7	0.581	0.030	0.0144	
240 minute winter	2	1.001	4	0.7	0.584	0.030	0.0161	
240 minute winter	3	2.000	4	1.1	0.756	0.040	0.0366	
240 minute winter	4	Orifice	5	1.7				10.2

Results for 100 year +40% CC 360 minute summer. 600 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	184	90.468	0.018	0.7	0.0039	0.0000	OK
360 minute summer	2	184	90.267	0.018	0.7	0.0029	0.0000	OK
360 minute summer	3	184	90.544	0.021	1.1	0.0067	0.0000	OK
360 minute summer	4	192	86.974	0.520	1.8	0.3306	0.0000	SURCHARGED
360 minute summer	5	8	86.206	0.000	1.6	0.0000	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	0.7	0.580	0.030	0.0143	
360 minute summer	2	1.001	4	0.7	0.581	0.030	0.0159	
360 minute summer	3	2.000	4	1.1	0.754	0.040	0.0365	
360 minute summer	4	Orifice	5	1.6				10.3

Results for 100 year +40% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.14%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	176	90.465	0.015	0.5	0.0034	0.0000	OK
360 minute winter	2	176	90.264	0.015	0.5	0.0025	0.0000	OK
360 minute winter	3	176	90.541	0.018	0.8	0.0058	0.0000	OK
360 minute winter	4	176	86.766	0.312	1.3	0.1984	0.0000	SURCHARGED
360 minute winter	5	8	86.206	0.000	1.2	0.0000	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 winter	1	1.000	2	0.5	0.526	0.022	0.0114	
360 minute winter	2	1.001	4	0.5	0.528	0.022	0.0127	
360 minute winter	3	2.000	4	0.8	0.686	0.029	0.0293	
360 minute winter	4	Orifice	5	1.2				11.4

Results for 100 year +40% CC 480 minute summer. 720 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	240	90.465	0.015	0.5	0.0034	0.0000	OK
480 minute summer	2	240	90.264	0.015	0.5	0.0025	0.0000	OK
480 minute summer	3	248	90.542	0.019	0.9	0.0061	0.0000	OK
480 minute summer	4	248	86.813	0.359	1.4	0.2284	0.0000	SURCHARGED
480 minute summer	5	8	86.206	0.000	1.3	0.0000	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	0.5	0.526	0.022	0.0114	
480 minute summer	2	1.001	4	0.5	0.528	0.022	0.0127	
480 minute summer	3	2.000	4	0.9	0.711	0.033	0.0318	
480 minute summer	4	Orifice	5	1.3				11.3

Results for 100 year +40% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.44%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	224	90.464	0.014	0.4	0.0030	0.0000	OK
480 minute winter	2	232	90.263	0.014	0.4	0.0022	0.0000	OK
480 minute winter	3	240	90.540	0.017	0.7	0.0054	0.0000	OK
480 minute winter	4	240	86.682	0.228	1.1	0.1450	0.0000	SURCHARGED
480 minute winter	5	8	86.206	0.000	1.0	0.0000	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 winter	1	1.000	2	0.4	0.493	0.017	0.0097	
480 minute winter	2	1.001	4	0.4	0.495	0.017	0.0108	
480 minute winter	3	2.000	4	0.7	0.660	0.026	0.0267	
480 minute winter	4	Orifice	5	1.0				12.5

Results for 100 year +40% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	300	90.464	0.014	0.4	0.0030	0.0000	OK
600 minute summer	2	300	90.263	0.014	0.4	0.0022	0.0000	OK
600 minute summer	3	315	90.540	0.017	0.7	0.0054	0.0000	OK
600 minute summer	4	315	86.682	0.228	1.1	0.1450	0.0000	SURCHARGED
600 minute summer	5	15	86.206	0.000	1.0	0.0000	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	0.4	0.493	0.017	0.0097	
600 minute summer	2	1.001	4	0.4	0.495	0.017	0.0108	
600 minute summer	3	2.000	4	0.7	0.658	0.025	0.0266	
600 minute summer	4	Orifice	5	1.0				11.8

Results for 100 year +40% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	270	90.462	0.012	0.3	0.0026	0.0000	OK
600 minute winter	2	270	90.261	0.012	0.3	0.0019	0.0000	OK
600 minute winter	3	315	90.538	0.015	0.6	0.0050	0.0000	OK
600 minute winter	4	315	86.612	0.158	0.9	0.1006	0.0000	SURCHARGED
600 minute winter	5	15	86.206	0.000	0.9	0.0000	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 winter	1	1.000	2	0.3	0.452	0.013	0.0080	
600 minute winter	2	1.001	4	0.3	0.453	0.013	0.0089	
600 minute winter	3	2.000	4	0.6	0.628	0.022	0.0238	
600 minute winter	4	Orifice	5	0.9				13.3

Results for 100 year +40% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.66%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	90.464	0.014	0.4	0.0030	0.0000	OK
720 minute summer	2	375	90.263	0.014	0.4	0.0022	0.0000	OK
720 minute summer	3	375	90.540	0.017	0.7	0.0054	0.0000	OK
720 minute summer	4	375	86.682	0.228	1.1	0.1450	0.0000	SURCHARGED
720 minute summer	5	15	86.206	0.000	1.0	0.0000	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	0.4	0.493	0.017	0.0097	
720 minute summer	2	1.001	4	0.4	0.495	0.017	0.0108	
720 minute summer	3	2.000	4	0.7	0.660	0.026	0.0267	
720 minute summer	4	Orifice	5	1.0				12.5

Results for 100 year +40% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 98.72%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	330	90.462	0.012	0.3	0.0026	0.0000	OK
720 minute winter	2	330	90.261	0.012	0.3	0.0019	0.0000	OK
720 minute winter	3	330	90.537	0.014	0.5	0.0046	0.0000	OK
720 minute winter	4	330	86.582	0.128	0.8	0.0816	0.0000	OK
720 minute winter	5	15	86.206	0.000	0.8	0.0000	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	0.3	0.452	0.013	0.0080	
720 minute winter	2	1.001	4	0.3	0.453	0.013	0.0089	
720 minute winter	3	2.000	4	0.5	0.595	0.018	0.0209	
720 minute winter	4	Orifice	5	0.8				14.4

Results for 100 year +40% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.14%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	465	90.462	0.012	0.3	0.0026	0.0000	OK
960 minute summer	2	465	90.261	0.012	0.3	0.0019	0.0000	OK
960 minute summer	3	465	90.537	0.014	0.5	0.0046	0.0000	OK
960 minute summer	4	465	86.582	0.128	0.8	0.0816	0.0000	OK
960 minute summer	5	15	86.206	0.000	0.8	0.0000	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	0.3	0.452	0.013	0.0080	
960 minute summer	2	1.001	4	0.3	0.453	0.013	0.0089	
960 minute summer	3	2.000	4	0.5	0.595	0.018	0.0209	
960 minute summer	4	Orifice	5	0.8				13.2

Results for 100 year +40% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 98.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	390	90.460	0.010	0.2	0.0022	0.0000	OK
960 minute winter	2	435	90.259	0.010	0.2	0.0016	0.0000	OK
960 minute winter	3	450	90.536	0.013	0.4	0.0041	0.0000	OK
960 minute winter	4	450	86.533	0.079	0.6	0.0505	0.0000	OK
960 minute winter	5	15	86.206	0.000	0.6	0.0000	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	0.2	0.400	0.009	0.0060	
960 minute winter	2	1.001	4	0.2	0.400	0.009	0.0067	
960 minute winter	3	2.000	4	0.4	0.556	0.014	0.0179	
960 minute winter	4	Orifice	5	0.6				14.2

Results for 100 year +40% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	690	90.460	0.010	0.2	0.0022	0.0000	OK
1440 minute summer	2	720	90.259	0.010	0.2	0.0016	0.0000	OK
1440 minute summer	3	750	90.536	0.013	0.4	0.0041	0.0000	OK
1440 minute summer	4	750	86.533	0.079	0.6	0.0505	0.0000	OK
1440 minute summer	5	30	86.206	0.000	0.6	0.0000	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	0.2	0.400	0.009	0.0060	
1440 minute summer	2	1.001	4	0.2	0.400	0.009	0.0067	
1440 minute summer	3	2.000	4	0.4	0.556	0.014	0.0179	
1440 minute summer	4	Orifice	5	0.6				12.2

Results for 100 year +40% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 98.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	690	90.460	0.010	0.2	0.0022	0.0000	OK
1440 minute winter	2	690	90.259	0.010	0.2	0.0016	0.0000	OK
1440 minute winter	3	690	90.534	0.011	0.3	0.0036	0.0000	OK
1440 minute winter	4	690	86.514	0.060	0.5	0.0383	0.0000	OK
1440 minute winter	5	30	86.206	0.000	0.5	0.0000	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	0.2	0.400	0.009	0.0060	
1440 minute winter	2	1.001	4	0.2	0.398	0.009	0.0066	
1440 minute winter	3	2.000	4	0.3	0.509	0.011	0.0148	
1440 minute winter	4	Orifice	5	0.5				16.0