

APPENDIX B

DESIGN CALCULATIONS

**Design Settings**

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	0.50
FSR Region	Scotland and Ireland	Connection Type	Level Inverts
M5-60 (mm)	15.700	Minimum Backdrop Height (m)	0.600
Ratio-R	0.261	Preferred Cover Depth (m)	0.900
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Adoptable Manhole Type

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

>900 Link+900 mm

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

Circular Link Type

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

Available Diameters (mm)

100 | 150

Nodes

	Name	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
✓	10	5.00	77.772	1200	0.900
✓	11	5.00	79.320	1200	2.484
✓	12_2	5.00	81.140	1200	1.390
✓	12_1	5.00	78.775	1200	1.125
✓	12	5.00	79.775	1200	2.948
✓	12_OUT		80.721	1200	3.900



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)
10	10	11	34.509	0.600	76.872	76.836	0.036	958.0	300	6.15	50.0
11	11	12	8.803	0.600	76.836	76.827	0.009	958.0	300	6.44	50.0
12_2	12_2	12	30.912	0.600	79.750	78.650	1.100	28.1	225	5.21	50.0
12_1	12_1	12	23.028	0.600	77.650	77.615	0.035	665.0	225	5.77	50.0
12	12	12_OUT	5.368	0.600	76.827	76.821	0.006	958.0	300	6.62	50.0





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)
10	0.500	35.3	15.9	0.600	2.184	0.117	0.0	141	0.487
11	0.500	35.3	21.7	2.184	2.648	0.160	0.0	170	0.525
12_2	2.477	98.5	0.7	1.165	0.900	0.005	0.0	14	0.721
12_1	0.500	19.9	2.8	0.900	1.935	0.021	0.0	58	0.356
12	0.500	35.3	27.4	2.648	3.600	0.202	0.0	199	0.551

Pipeline Schedule

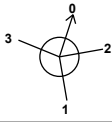

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
10	34.509	958.0	300	Circular	77.772	76.872	0.600	79.320	76.836	2.184
11	8.803	958.0	300	Circular	79.320	76.836	2.184	79.775	76.827	2.648
12_2	30.912	28.1	225	Circular	81.140	79.750	1.165	79.775	78.650	0.900
12_1	23.028	665.0	225	Circular	78.775	77.650	0.900	79.775	77.615	1.935
12	5.368	958.0	300	Circular	79.775	76.827	2.648	80.721	76.821	3.600

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
10	10	1200	Manhole	Adoptable	11	1200	Manhole	Adoptable
11	11	1200	Manhole	Adoptable	12	1200	Manhole	Adoptable
12_2	12_2	1200	Manhole	Adoptable	12	1200	Manhole	Adoptable
12_1	12_1	1200	Manhole	Adoptable	12	1200	Manhole	Adoptable
12	12	1200	Manhole	Adoptable	12_OUT	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
10	569620.625	833788.083	77.772	0.900	1200		0	10	76.872	300
11	569635.591	833756.988	79.320	2.484	1200		1	10	76.836	300
12_2	569674.179	833759.037	81.140	1.390	1200		0	11	76.836	300
12_1	569647.632	833730.958	78.775	1.125	1200		0	12_2	79.750	225
							0	12_1	77.650	225

**Manhole Schedule**

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
12	569643.739	833753.655	79.775	2.948	1200		1	12_1	77.615	225
							2	12_2	78.650	225
							3	11	76.827	300
							0	12	76.827	300
12_OUT	569645.394	833758.761	80.721	3.900	1200		1	12	76.821	300

Simulation Settings

Rainfall Methodology	FSR	Additional Storage (m ³ /ha)	20.0
FSR Region	Scotland and Ireland	Check Discharge Rate(s)	✓
M5-60 (mm)	15.700	1 year (l/s)	7.1
Ratio-R	0.261	30 year (l/s)	14.1
Summer CV	0.750	100 year (l/s)	16.7
Analysis Speed	Normal	Check Discharge Volume	✓
Skip Steady State	x	100 year 360 minute (m ³)	
Drain Down Time (mins)	240		

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
1	20	0	0
30	0	0	0
30	20	0	0
100	0	0	0
100	20	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	1.65
Greenfield Method	IH124	Growth Factor 100 year	1.96
Positively Drained Area (ha)	2.279	Betterment (%)	0
SAAR (mm)	1295	QBar	8.5
Soil Index	2	Q 1 year (l/s)	7.1
SPR	0.30	Q 30 year (l/s)	14.1
Region	11	Q 100 year (l/s)	16.7
Growth Factor 1 year	0.83		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)	2.279	Storm Duration (mins)	360
Soil Index	2	Betterment (%)	0
SPR	0.30	PR	
CWI		Runoff Volume (m ³)	

**Node 12 OUT Soakaway Storage Structure**

Base Inf Coefficient (m/hr)	0.07668	Invert Level (m)	76.821	Depth (m)	1.000
Side Inf Coefficient (m/hr)	0.07668	Time to half empty (mins)	608	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	9.000	Number Required	1
Porosity	0.95	Pit Length (m)	9.000		

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	✓	Minimum Full Bore Velocity (m/s)	
Node Losses	✓	Maximum Full Bore Velocity (m/s)	3.000
Link Size	✓	Proportional Velocity	✓
Minimum Diameter (mm)	150	Return Period (years)	
Link Length	✓	Minimum Proportional Velocity (m/s)	0.750
Maximum Length (m)	100.000	Maximum Proportional Velocity (m/s)	3.000
Coordinates	✓	Surcharged Depth	✓
Accuracy (m)	1.000	Return Period (years)	
Crossings	✓	Maximum Surcharged Depth (m)	0.100
Cover Depth	✓	Flooding	✓
Minimum Cover Depth (m)		Return Period (years)	30
Maximum Cover Depth (m)	3.000	Time to Half Empty	x
Backdrops	✓	Discharge Rates	✓
Minimum Backdrop Height (m)		Discharge Volume	✓
Maximum Backdrop Height (m)	1.500	100 year 360 minute (m ³)	
Full Bore Velocity	✓		

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	82.600	23.373	1 year +20% CC 720 minute summer	10.693	2.866
1 year 30 minute summer	57.169	16.177	1 year +20% CC 960 minute summer	9.158	2.412
1 year 60 minute summer	41.075	10.855	1 year +20% CC 1440 minute summer	6.986	1.872
1 year 120 minute summer	27.115	7.166	30 year 15 minute summer	183.194	51.838
1 year 180 minute summer	21.761	5.600	30 year 30 minute summer	127.219	35.999
1 year 240 minute summer	17.776	4.698	30 year 60 minute summer	90.011	23.787
1 year 360 minute summer	14.243	3.665	30 year 120 minute summer	57.882	15.296
1 year 480 minute summer	11.608	3.068	30 year 180 minute summer	45.578	11.729
1 year 600 minute summer	9.771	2.673	30 year 240 minute summer	36.690	9.696
1 year 720 minute summer	8.911	2.388	30 year 360 minute summer	28.746	7.397
1 year 960 minute summer	7.632	2.010	30 year 480 minute summer	23.075	6.098
1 year 1440 minute summer	5.822	1.560	30 year 600 minute summer	19.183	5.247
1 year +20% CC 15 minute summer	99.120	28.047	30 year 720 minute summer	17.310	4.639
1 year +20% CC 30 minute summer	68.603	19.412	30 year 960 minute summer	14.504	3.819
1 year +20% CC 60 minute summer	49.290	13.026	30 year 1440 minute summer	10.830	2.902
1 year +20% CC 120 minute summer	32.538	8.599	30 year +20% CC 15 minute summer	219.833	62.205
1 year +20% CC 180 minute summer	26.113	6.720	30 year +20% CC 30 minute summer	152.663	43.198
1 year +20% CC 240 minute summer	21.331	5.637	30 year +20% CC 60 minute summer	108.014	28.545
1 year +20% CC 360 minute summer	17.091	4.398	30 year +20% CC 120 minute summer	69.458	18.356
1 year +20% CC 480 minute summer	13.930	3.681	30 year +20% CC 180 minute summer	54.694	14.075
1 year +20% CC 600 minute summer	11.725	3.207	30 year +20% CC 240 minute summer	44.028	11.635

**Rainfall**

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year +20% CC 360 minute summer	34.495	8.877	100 year 720 minute summer	21.664	5.806
30 year +20% CC 480 minute summer	27.690	7.318	100 year 960 minute summer	18.050	4.753
30 year +20% CC 600 minute summer	23.020	6.296	100 year 1440 minute summer	13.372	3.584
30 year +20% CC 720 minute summer	20.773	5.567	100 year +20% CC 15 minute summer	284.435	80.485
30 year +20% CC 960 minute summer	17.405	4.583	100 year +20% CC 30 minute summer	199.129	56.347
30 year +20% CC 1440 minute summer	12.996	3.483	100 year +20% CC 60 minute summer	140.524	37.136
100 year 15 minute summer	237.029	67.071	100 year +20% CC 120 minute summer	89.646	23.691
100 year 30 minute summer	165.941	46.956	100 year +20% CC 180 minute summer	70.163	18.055
100 year 60 minute summer	117.103	30.947	100 year +20% CC 240 minute summer	56.219	14.857
100 year 120 minute summer	74.705	19.742	100 year +20% CC 360 minute summer	43.736	11.255
100 year 180 minute summer	58.469	15.046	100 year +20% CC 480 minute summer	34.923	9.229
100 year 240 minute summer	46.850	12.381	100 year +20% CC 600 minute summer	28.910	7.908
100 year 360 minute summer	36.447	9.379	100 year +20% CC 720 minute summer	25.996	6.967
100 year 480 minute summer	29.103	7.691	100 year +20% CC 960 minute summer	21.660	5.704
100 year 600 minute summer	24.092	6.590	100 year +20% CC 1440 minute summer	16.046	4.301

**Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
600 minute summer	10	420	77.037	0.165	2.4	0.6161	0.0000	OK
600 minute summer	11	420	77.037	0.201	3.1	0.2971	0.0000	OK
15 minute summer	12_2	11	79.762	0.012	0.5	0.0140	0.0000	OK
15 minute summer	12_1	11	77.701	0.051	2.1	0.0761	0.0000	OK
600 minute summer	12	420	77.037	0.210	3.6	0.2605	0.0000	OK
600 minute summer	12_OUT	420	77.037	0.216	3.5	16.8740	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	2.2	0.193	0.061	1.5519
600 minute summer	11	11	12	2.8	0.197	0.080	0.4530
15 minute summer	12_2	12_2	12	0.5	0.644	0.005	0.0237
15 minute summer	12_1	12_1	12	2.0	0.372	0.099	0.1222
600 minute summer	12	12	12_OUT	3.5	0.371	0.099	0.2873
600 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year +20% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
720 minute summer	10	480	77.101	0.229	2.6	0.8550	0.0000	OK
720 minute summer	11	480	77.101	0.265	3.3	0.3916	0.0000	OK
15 minute summer	12_2	11	79.763	0.013	0.6	0.0152	0.0000	OK
15 minute summer	12_1	11	77.705	0.055	2.5	0.0830	0.0000	OK
720 minute summer	12	480	77.101	0.274	4.0	0.3400	0.0000	OK
720 minute summer	12_OUT	480	77.101	0.280	3.9	21.8743	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	2.3	0.184	0.065	2.1333
720 minute summer	11	11	12	3.0	0.198	0.085	0.5871
15 minute summer	12_2	12_2	12	0.6	0.681	0.006	0.0270
15 minute summer	12_1	12_1	12	2.4	0.393	0.119	0.1395
720 minute summer	12	12	12_OUT	3.9	0.371	0.109	0.3649
720 minute summer	12_OUT	Infiltration		1.0			

**Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
720 minute summer	10	555	77.379	0.507	4.2	1.8928	0.0000	SURCHARGED
720 minute summer	11	555	77.377	0.541	5.4	0.7995	0.0000	SURCHARGED
15 minute summer	12_2	11	79.767	0.017	1.1	0.0203	0.0000	OK
15 minute summer	12_1	11	77.725	0.075	4.7	0.1130	0.0000	OK
720 minute summer	12	525	77.378	0.551	6.8	0.6837	0.0000	SURCHARGED
720 minute summer	12_OUT	525	77.377	0.556	6.7	43.4000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	3.8	0.165	0.107	2.4301
720 minute summer	11	11	12	5.2	0.177	0.146	0.6199
15 minute summer	12_2	12_2	12	1.1	0.822	0.011	0.0412
15 minute summer	12_1	12_1	12	4.5	0.482	0.228	0.2181
720 minute summer	12	12	12_OUT	6.7	0.517	0.190	0.3780
720 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
960 minute summer	10	690	77.535	0.663	4.2	2.4743	0.0000	FLOOD RISK
960 minute summer	11	690	77.538	0.702	5.5	1.0366	0.0000	SURCHARGED
15 minute summer	12_2	11	79.768	0.018	1.3	0.0219	0.0000	OK
15 minute summer	12_1	11	77.732	0.082	5.7	0.1240	0.0000	OK
960 minute summer	12	720	77.540	0.713	6.6	0.8845	0.0000	SURCHARGED
960 minute summer	12_OUT	690	77.539	0.718	7.4	56.0545	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	3.9	0.154	0.111	2.4301
960 minute summer	11	11	12	5.0	0.177	0.141	0.6199
15 minute summer	12_2	12_2	12	1.3	0.866	0.013	0.0463
15 minute summer	12_1	12_1	12	5.5	0.510	0.277	0.2492
960 minute summer	12	12	12_OUT	7.4	0.531	0.209	0.3780
960 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 year Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
960 minute summer	10	705	77.574	0.702	4.4	2.6183	0.0000	FLOOD RISK
960 minute summer	11	705	77.575	0.739	5.7	1.0910	0.0000	SURCHARGED
15 minute summer	12_2	11	79.769	0.019	1.5	0.0230	0.0000	OK
15 minute summer	12_1	11	77.735	0.085	6.1	0.1284	0.0000	OK
960 minute summer	12	690	77.574	0.747	7.3	0.9267	0.0000	SURCHARGED
960 minute summer	12_OUT	690	77.574	0.753	7.1	58.8120	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	4.1	0.154	0.117	2.4301
960 minute summer	11	11	12	5.7	0.177	0.161	0.6199
15 minute summer	12_2	12_2	12	1.4	0.895	0.015	0.0496
15 minute summer	12_1	12_1	12	5.9	0.522	0.297	0.2615
960 minute summer	12	12	12_OUT	7.1	0.517	0.200	0.3780
960 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
960 minute summer	10	735	77.772	0.900	5.3	3.3577	0.0000	FLOOD RISK
960 minute summer	11	735	77.772	0.936	6.9	1.3824	0.0000	SURCHARGED
15 minute summer	12_2	11	79.771	0.021	1.7	0.0249	0.0000	OK
960 minute summer	12_1	735	77.772	0.122	0.9	0.1834	0.0000	OK
960 minute summer	12	735	77.772	0.945	8.1	1.1717	0.0000	SURCHARGED
960 minute summer	12_OUT	735	77.772	0.951	9.1	74.2474	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	5.0	0.159	0.142	2.4301
960 minute summer	11	11	12	6.3	0.203	0.178	0.6199
15 minute summer	12_2	12_2	12	1.7	0.941	0.017	0.0558
960 minute summer	12_1	12_1	12	0.9	0.293	0.045	0.5932
960 minute summer	12	12	12_OUT	9.1	0.550	0.256	0.3780
960 minute summer	12_OUT	Infiltration		1.2			

**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 (m ³)	Flood (m ³)	Status
15 minute summer	10	10	77.015	0.143	11.8	0.5335	0.0000	OK
15 minute summer	11	9	76.990	0.154	16.9	0.2281	0.0000	OK
15 minute summer	12_2	11	79.762	0.012	0.5	0.0140	0.0000	OK
15 minute summer	12_1	11	77.701	0.051	2.1	0.0761	0.0000	OK
15 minute summer	12	9	76.979	0.152	22.3	0.1884	0.0000	OK
15 minute summer	12_OUT	20	76.915	0.094	23.1	7.3234	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
15 minute summer	10	10	11	12.8	0.406	0.361	1.1767
15 minute summer	11	11	12	18.4	0.616	0.520	0.3182
15 minute summer	12_2	12_2	12	0.5	0.644	0.005	0.0237
15 minute summer	12_1	12_1	12	2.0	0.372	0.099	0.1222
15 minute summer	12	12	12_OUT	23.1	1.525	0.653	0.0972
15 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
30 minute summer	10	18	76.990	0.118	11.2	0.4407	0.0000	OK
30 minute summer	11	19	76.962	0.126	14.9	0.1861	0.0000	OK
30 minute summer	12_2	18	79.762	0.012	0.5	0.0139	0.0000	OK
30 minute summer	12_1	18	77.700	0.050	2.0	0.0748	0.0000	OK
30 minute summer	12	33	76.944	0.117	18.3	0.1448	0.0000	OK
30 minute summer	12_OUT	33	76.944	0.123	18.3	9.5896	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
30 minute summer	10	10	11	10.8	0.403	0.305	0.9249
30 minute summer	11	11	12	14.6	0.575	0.413	0.2249
30 minute summer	12_2	12_2	12	0.5	0.640	0.005	0.0233
30 minute summer	12_1	12_1	12	1.9	0.370	0.095	0.1191
30 minute summer	12	12	12_OUT	18.3	1.245	0.517	0.1409
30 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
60 minute summer	10	33	76.977	0.105	9.0	0.3934	0.0000	OK
60 minute summer	11	61	76.974	0.138	12.0	0.2035	0.0000	OK
60 minute summer	12_2	34	79.761	0.011	0.4	0.0127	0.0000	OK
60 minute summer	12_1	34	77.695	0.045	1.6	0.0682	0.0000	OK
60 minute summer	12	62	76.974	0.147	14.7	0.1821	0.0000	OK
60 minute summer	12_OUT	62	76.974	0.153	14.4	11.9424	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
60 minute summer	10	10	11	8.7	0.373	0.247	0.9072
60 minute summer	11	11	12	11.6	0.503	0.328	0.2897
60 minute summer	12_2	12_2	12	0.4	0.606	0.004	0.0203
60 minute summer	12_1	12_1	12	1.5	0.346	0.078	0.1040
60 minute summer	12	12	12_OUT	14.4	0.889	0.409	0.1889
60 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
120 minute summer	10	120	77.002	0.130	6.3	0.4867	0.0000	OK
120 minute summer	11	120	77.002	0.166	8.4	0.2456	0.0000	OK
120 minute summer	12_2	64	79.759	0.009	0.3	0.0111	0.0000	OK
120 minute summer	12_1	64	77.689	0.039	1.1	0.0583	0.0000	OK
120 minute summer	12	120	77.002	0.175	10.3	0.2173	0.0000	OK
120 minute summer	12_OUT	120	77.002	0.181	10.1	14.1467	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
120 minute summer	10	10	11	6.1	0.310	0.173	1.1983
120 minute summer	11	11	12	8.0	0.367	0.227	0.3644
120 minute summer	12_2	12_2	12	0.3	0.558	0.003	0.0164
120 minute summer	12_1	12_1	12	1.1	0.310	0.055	0.0815
120 minute summer	12	12	12_OUT	10.1	0.609	0.285	0.2340
120 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
180 minute summer	10	156	77.014	0.142	4.9	0.5303	0.0000	OK
180 minute summer	11	160	77.014	0.178	6.4	0.2631	0.0000	OK
180 minute summer	12_2	100	79.758	0.008	0.2	0.0093	0.0000	OK
180 minute summer	12_1	96	77.686	0.036	0.9	0.0536	0.0000	OK
180 minute summer	12	160	77.014	0.187	7.7	0.2320	0.0000	OK
180 minute summer	12_OUT	160	77.014	0.193	7.4	15.0767	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
180 minute summer	10	10	11	4.6	0.274	0.129	1.3188
180 minute summer	11	11	12	5.9	0.306	0.167	0.3951
180 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
180 minute summer	12_1	12_1	12	0.9	0.293	0.045	0.0714
180 minute summer	12	12	12_OUT	7.4	0.575	0.210	0.2526
180 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
240 minute summer	10	188	77.023	0.151	4.3	0.5646	0.0000	OK
240 minute summer	11	192	77.023	0.187	5.5	0.2766	0.0000	OK
240 minute summer	12_2	128	79.758	0.008	0.2	0.0093	0.0000	OK
240 minute summer	12_1	124	77.683	0.033	0.8	0.0499	0.0000	OK
240 minute summer	12	192	77.023	0.196	6.6	0.2434	0.0000	OK
240 minute summer	12_OUT	192	77.023	0.202	6.4	15.7927	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
240 minute summer	10	10	11	3.9	0.249	0.111	1.4124
240 minute summer	11	11	12	5.1	0.267	0.143	0.4185
240 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
240 minute summer	12_1	12_1	12	0.8	0.276	0.038	0.0642
240 minute summer	12	12	12_OUT	6.4	0.515	0.181	0.2667
240 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
360 minute summer	10	264	77.032	0.160	3.5	0.5973	0.0000	OK
360 minute summer	11	264	77.032	0.196	4.4	0.2896	0.0000	OK
360 minute summer	12_2	168	79.756	0.006	0.1	0.0069	0.0000	OK
360 minute summer	12_1	184	77.679	0.029	0.6	0.0443	0.0000	OK
360 minute summer	12	264	77.032	0.205	5.2	0.2543	0.0000	OK
360 minute summer	12_OUT	264	77.032	0.211	5.1	16.4806	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
360 minute summer	10	10	11	3.1	0.219	0.089	1.5014
360 minute summer	11	11	12	4.0	0.231	0.114	0.4406
360 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
360 minute summer	12_1	12_1	12	0.6	0.253	0.029	0.0536
360 minute summer	12	12	12_OUT	5.1	0.463	0.143	0.2799
360 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 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 (m ³)	Flood (m ³)	Status
480 minute summer	10	336	77.035	0.163	2.8	0.6072	0.0000	OK
480 minute summer	11	336	77.035	0.199	3.5	0.2935	0.0000	OK
480 minute summer	12_2	224	79.756	0.006	0.1	0.0069	0.0000	OK
480 minute summer	12_1	248	77.678	0.028	0.5	0.0417	0.0000	OK
480 minute summer	12	336	77.035	0.208	4.2	0.2576	0.0000	OK
480 minute summer	12_OUT	336	77.035	0.214	4.1	16.6872	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
480 minute summer	10	10	11	2.5	0.206	0.071	1.5279
480 minute summer	11	11	12	3.2	0.215	0.091	0.4471
480 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
480 minute summer	12_1	12_1	12	0.5	0.242	0.025	0.0483
480 minute summer	12	12	12_OUT	4.1	0.423	0.115	0.2838
480 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	10	420	77.037	0.165	2.4	0.6161	0.0000	OK
600 minute summer	11	420	77.037	0.201	3.1	0.2971	0.0000	OK
600 minute summer	12_2	285	79.756	0.006	0.1	0.0069	0.0000	OK
600 minute summer	12_1	315	77.675	0.025	0.4	0.0381	0.0000	OK
600 minute summer	12	420	77.037	0.210	3.6	0.2605	0.0000	OK
600 minute summer	12_OUT	420	77.037	0.216	3.5	16.8740	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	2.2	0.193	0.061	1.5519
600 minute summer	11	11	12	2.8	0.197	0.080	0.4530
600 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
600 minute summer	12_1	12_1	12	0.4	0.227	0.020	0.0413
600 minute summer	12	12	12_OUT	3.5	0.371	0.099	0.2873
600 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
720 minute summer	10	480	77.035	0.163	2.2	0.6063	0.0000	OK
720 minute summer	11	480	77.035	0.199	2.8	0.2932	0.0000	OK
720 minute summer	12_2	345	79.756	0.006	0.1	0.0069	0.0000	OK
720 minute summer	12_1	375	77.675	0.025	0.4	0.0381	0.0000	OK
720 minute summer	12	480	77.035	0.208	3.4	0.2573	0.0000	OK
720 minute summer	12_OUT	480	77.034	0.213	3.3	16.6696	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	2.0	0.186	0.056	1.5257
720 minute summer	11	11	12	2.6	0.205	0.073	0.4466
720 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
720 minute summer	12_1	12_1	12	0.4	0.227	0.020	0.0413
720 minute summer	12	12	12_OUT	3.3	0.371	0.092	0.2835
720 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	10	630	77.033	0.161	1.9	0.6018	0.0000	OK
960 minute summer	11	630	77.033	0.197	2.4	0.2914	0.0000	OK
960 minute summer	12_2	465	79.756	0.006	0.1	0.0069	0.0000	OK
960 minute summer	12_1	480	77.673	0.023	0.3	0.0339	0.0000	OK
960 minute summer	12	630	77.033	0.206	2.9	0.2558	0.0000	OK
960 minute summer	12_OUT	630	77.033	0.212	2.8	16.5747	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	1.7	0.181	0.048	1.5136
960 minute summer	11	11	12	2.2	0.190	0.063	0.4436
960 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
960 minute summer	12_1	12_1	12	0.3	0.206	0.015	0.0343
960 minute summer	12	12	12_OUT	2.8	0.371	0.081	0.2817
960 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year 1440 minute summer. 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 (m ³)	Flood (m ³)	Status
1440 minute summer	10	900	77.018	0.146	1.4	0.5456	0.0000	OK
1440 minute summer	11	900	77.018	0.182	1.8	0.2691	0.0000	OK
1440 minute summer	12_2	720	79.756	0.006	0.1	0.0069	0.0000	OK
1440 minute summer	12_1	750	77.673	0.023	0.3	0.0339	0.0000	OK
1440 minute summer	12	900	77.018	0.191	2.3	0.2371	0.0000	OK
1440 minute summer	12_OUT	900	77.018	0.197	2.2	15.3970	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
1440 minute summer	10	10	11	1.3	0.172	0.036	1.3607
1440 minute summer	11	11	12	1.7	0.176	0.047	0.4056
1440 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
1440 minute summer	12_1	12_1	12	0.3	0.206	0.015	0.0343
1440 minute summer	12	12	12_OUT	2.2	0.291	0.062	0.2590
1440 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
15 minute summer	10	10	77.025	0.153	14.2	0.5701	0.0000	OK
15 minute summer	11	9	76.997	0.161	20.7	0.2376	0.0000	OK
15 minute summer	12_2	11	79.763	0.013	0.6	0.0152	0.0000	OK
15 minute summer	12_1	11	77.705	0.055	2.5	0.0830	0.0000	OK
15 minute summer	12	9	76.984	0.157	25.9	0.1946	0.0000	OK
15 minute summer	12_OUT	19	76.933	0.112	26.6	8.7300	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
15 minute summer	10	10	11	15.5	0.429	0.440	1.2808
15 minute summer	11	11	12	21.2	0.657	0.601	0.3336
15 minute summer	12_2	12_2	12	0.6	0.681	0.006	0.0270
15 minute summer	12_1	12_1	12	2.4	0.393	0.119	0.1395
15 minute summer	12	12	12_OUT	26.6	1.623	0.754	0.1235
15 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
30 minute summer	10	18	77.004	0.132	13.5	0.4917	0.0000	OK
30 minute summer	11	19	76.975	0.139	18.0	0.2055	0.0000	OK
30 minute summer	12_2	18	79.763	0.013	0.6	0.0151	0.0000	OK
30 minute summer	12_1	18	77.704	0.054	2.4	0.0818	0.0000	OK
30 minute summer	12	33	76.968	0.141	22.1	0.1747	0.0000	OK
30 minute summer	12_OUT	33	76.968	0.147	21.9	11.4808	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
30 minute summer	10	10	11	13.0	0.425	0.369	1.0608
30 minute summer	11	11	12	17.5	0.611	0.495	0.2740
30 minute summer	12_2	12_2	12	0.6	0.676	0.006	0.0265
30 minute summer	12_1	12_1	12	2.3	0.391	0.116	0.1364
30 minute summer	12	12	12_OUT	21.9	1.262	0.619	0.1793
30 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
60 minute summer	10	64	77.007	0.135	10.8	0.5042	0.0000	OK
60 minute summer	11	63	77.007	0.171	14.5	0.2526	0.0000	OK
60 minute summer	12_2	33	79.762	0.012	0.5	0.0139	0.0000	OK
60 minute summer	12_1	34	77.699	0.049	1.9	0.0739	0.0000	OK
60 minute summer	12	62	77.007	0.180	17.4	0.2233	0.0000	OK
60 minute summer	12_OUT	62	77.007	0.186	17.0	14.5373	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
60 minute summer	10	10	11	10.5	0.387	0.296	1.2463
60 minute summer	11	11	12	13.7	0.521	0.387	0.3770
60 minute summer	12_2	12_2	12	0.5	0.641	0.005	0.0233
60 minute summer	12_1	12_1	12	1.8	0.366	0.093	0.1171
60 minute summer	12	12	12_OUT	17.0	0.868	0.482	0.2418
60 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
120 minute summer	10	120	77.043	0.171	7.6	0.6370	0.0000	OK
120 minute summer	11	122	77.043	0.207	10.0	0.3052	0.0000	OK
120 minute summer	12_2	66	79.759	0.009	0.3	0.0112	0.0000	OK
120 minute summer	12_1	64	77.693	0.043	1.4	0.0648	0.0000	OK
120 minute summer	12	122	77.043	0.216	12.1	0.2675	0.0000	OK
120 minute summer	12_OUT	122	77.043	0.222	11.7	17.3126	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
120 minute summer	10	10	11	7.2	0.313	0.205	1.6071
120 minute summer	11	11	12	9.4	0.366	0.266	0.4665
120 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
120 minute summer	12_1	12_1	12	1.4	0.332	0.069	0.0965
120 minute summer	12	12	12_OUT	11.7	0.656	0.333	0.2954
120 minute summer	12_OUT	Infiltration		0.9			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
180 minute summer	10	176	77.061	0.189	5.9	0.7039	0.0000	OK
180 minute summer	11	176	77.061	0.225	7.5	0.3318	0.0000	OK
180 minute summer	12_2	96	79.759	0.009	0.3	0.0112	0.0000	OK
180 minute summer	12_1	96	77.689	0.039	1.1	0.0586	0.0000	OK
180 minute summer	12	176	77.061	0.234	9.0	0.2897	0.0000	OK
180 minute summer	12_OUT	176	77.061	0.240	8.7	18.7103	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
180 minute summer	10	10	11	5.3	0.270	0.151	1.7815
180 minute summer	11	11	12	6.9	0.298	0.195	0.5082
180 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0165
180 minute summer	12_1	12_1	12	1.1	0.311	0.055	0.0820
180 minute summer	12	12	12_OUT	8.7	0.593	0.246	0.3199
180 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
240 minute summer	10	208	77.072	0.200	5.2	0.7470	0.0000	OK
240 minute summer	11	208	77.072	0.236	6.5	0.3488	0.0000	OK
240 minute summer	12_2	128	79.758	0.008	0.2	0.0093	0.0000	OK
240 minute summer	12_1	128	77.686	0.036	0.9	0.0537	0.0000	OK
240 minute summer	12	208	77.072	0.245	7.7	0.3040	0.0000	OK
240 minute summer	12_OUT	208	77.072	0.251	7.4	19.6109	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
240 minute summer	10	10	11	4.6	0.246	0.131	1.8886
240 minute summer	11	11	12	5.9	0.262	0.167	0.5332
240 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
240 minute summer	12_1	12_1	12	0.9	0.293	0.045	0.0717
240 minute summer	12	12	12_OUT	7.4	0.575	0.211	0.3345
240 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
360 minute summer	10	272	77.087	0.215	4.2	0.8021	0.0000	OK
360 minute summer	11	272	77.087	0.251	5.2	0.3707	0.0000	OK
360 minute summer	12_2	192	79.758	0.008	0.2	0.0093	0.0000	OK
360 minute summer	12_1	184	77.682	0.032	0.7	0.0475	0.0000	OK
360 minute summer	12	272	77.087	0.260	6.2	0.3224	0.0000	OK
360 minute summer	12_OUT	272	77.087	0.266	6.0	20.7682	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
360 minute summer	10	10	11	3.7	0.218	0.104	2.0187
360 minute summer	11	11	12	4.7	0.220	0.133	0.5626
360 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
360 minute summer	12_1	12_1	12	0.7	0.266	0.034	0.0596
360 minute summer	12	12	12_OUT	6.0	0.525	0.169	0.3513
360 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% 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 (m ³)	Flood (m ³)	Status
480 minute summer	10	344	77.093	0.221	3.4	0.8237	0.0000	OK
480 minute summer	11	344	77.093	0.257	4.2	0.3792	0.0000	OK
480 minute summer	12_2	216	79.756	0.006	0.1	0.0069	0.0000	OK
480 minute summer	12_1	248	77.680	0.030	0.6	0.0449	0.0000	OK
480 minute summer	12	344	77.093	0.266	5.0	0.3295	0.0000	OK
480 minute summer	12_OUT	344	77.093	0.272	4.8	21.2178	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
480 minute summer	10	10	11	3.0	0.201	0.085	2.0666
480 minute summer	11	11	12	3.8	0.204	0.108	0.5731
480 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
480 minute summer	12_1	12_1	12	0.6	0.255	0.030	0.0549
480 minute summer	12	12	12_OUT	4.8	0.463	0.137	0.3572
480 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% CC 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	10	420	77.093	0.221	2.9	0.8241	0.0000	OK
600 minute summer	11	420	77.093	0.257	3.7	0.3794	0.0000	OK
600 minute summer	12_2	285	79.756	0.006	0.1	0.0069	0.0000	OK
600 minute summer	12_1	315	77.678	0.028	0.5	0.0417	0.0000	OK
600 minute summer	12	420	77.093	0.266	4.3	0.3297	0.0000	OK
600 minute summer	12_OUT	420	77.093	0.272	4.2	21.2275	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	2.6	0.189	0.073	2.0676
600 minute summer	11	11	12	3.3	0.196	0.095	0.5733
600 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
600 minute summer	12_1	12_1	12	0.5	0.242	0.025	0.0483
600 minute summer	12	12	12_OUT	4.2	0.418	0.119	0.3573
600 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% CC 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 (m ³)	Flood (m ³)	Status
720 minute summer	10	480	77.101	0.229	2.6	0.8550	0.0000	OK
720 minute summer	11	480	77.101	0.265	3.3	0.3916	0.0000	OK
720 minute summer	12_2	330	79.756	0.006	0.1	0.0069	0.0000	OK
720 minute summer	12_1	375	77.678	0.028	0.5	0.0417	0.0000	OK
720 minute summer	12	480	77.101	0.274	4.0	0.3400	0.0000	OK
720 minute summer	12_OUT	480	77.101	0.280	3.9	21.8743	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	2.3	0.184	0.065	2.1333
720 minute summer	11	11	12	3.0	0.198	0.085	0.5871
720 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
720 minute summer	12_1	12_1	12	0.5	0.242	0.025	0.0483
720 minute summer	12	12	12_OUT	3.9	0.371	0.109	0.3649
720 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% CC 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	10	630	77.096	0.224	2.2	0.8370	0.0000	OK
960 minute summer	11	630	77.096	0.260	2.8	0.3845	0.0000	OK
960 minute summer	12_2	450	79.756	0.006	0.1	0.0069	0.0000	OK
960 minute summer	12_1	495	77.675	0.025	0.4	0.0381	0.0000	OK
960 minute summer	12	630	77.096	0.269	3.3	0.3340	0.0000	OK
960 minute summer	12_OUT	630	77.096	0.275	3.2	21.4970	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	2.0	0.178	0.055	2.0955
960 minute summer	11	11	12	2.5	0.185	0.071	0.5792
960 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
960 minute summer	12_1	12_1	12	0.4	0.227	0.020	0.0413
960 minute summer	12	12	12_OUT	3.2	0.371	0.091	0.3606
960 minute summer	12_OUT	Infiltration		1.0			

**Results for 1 year +20% CC 1440 minute summer. 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 (m ³)	Flood (m ³)	Status
1440 minute summer	10	900	77.086	0.214	1.7	0.7983	0.0000	OK
1440 minute summer	11	900	77.086	0.250	2.1	0.3692	0.0000	OK
1440 minute summer	12_2	690	79.756	0.006	0.1	0.0069	0.0000	OK
1440 minute summer	12_1	720	77.673	0.023	0.3	0.0339	0.0000	OK
1440 minute summer	12	900	77.086	0.259	2.6	0.3211	0.0000	OK
1440 minute summer	12_OUT	900	77.086	0.265	2.5	20.6874	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
1440 minute summer	10	10	11	1.5	0.168	0.043	2.0099
1440 minute summer	11	11	12	2.0	0.173	0.056	0.5607
1440 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
1440 minute summer	12_1	12_1	12	0.3	0.206	0.015	0.0343
1440 minute summer	12	12	12_OUT	2.5	0.372	0.071	0.3503
1440 minute summer	12_OUT	Infiltration		1.0			

**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 (m ³)	Flood (m ³)	Status
15 minute summer	10	10	77.073	0.201	26.3	0.7481	0.0000	OK
15 minute summer	11	11	77.036	0.200	35.4	0.2948	0.0000	OK
15 minute summer	12_2	11	79.767	0.017	1.1	0.0203	0.0000	OK
15 minute summer	12_1	11	77.725	0.075	4.7	0.1130	0.0000	OK
15 minute summer	12	19	77.022	0.195	44.0	0.2415	0.0000	OK
15 minute summer	12_OUT	19	77.022	0.201	43.9	15.7043	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
15 minute summer	10	10	11	25.8	0.518	0.730	1.7185
15 minute summer	11	11	12	35.0	0.783	0.992	0.4150
15 minute summer	12_2	12_2	12	1.1	0.822	0.011	0.0412
15 minute summer	12_1	12_1	12	4.5	0.482	0.228	0.2181
15 minute summer	12	12	12_OUT	43.9	1.819	1.243	0.2647
15 minute summer	12_OUT	Infiltration		0.9			

**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 (m ³)	Flood (m ³)	Status
30 minute summer	10	36	77.093	0.221	25.0	0.8253	0.0000	OK
30 minute summer	11	34	77.093	0.257	33.4	0.3801	0.0000	OK
30 minute summer	12_2	18	79.767	0.017	1.1	0.0202	0.0000	OK
30 minute summer	12_1	18	77.724	0.074	4.5	0.1113	0.0000	OK
30 minute summer	12	34	77.094	0.267	41.0	0.3305	0.0000	OK
30 minute summer	12_OUT	34	77.094	0.273	40.1	21.2889	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
30 minute summer	10	10	11	24.2	0.499	0.684	2.0701
30 minute summer	11	11	12	32.1	0.712	0.910	0.5742
30 minute summer	12_2	12_2	12	1.1	0.820	0.011	0.0411
30 minute summer	12_1	12_1	12	4.4	0.476	0.220	0.2132
30 minute summer	12	12	12_OUT	40.1	1.290	1.134	0.3580
30 minute summer	12_OUT	Infiltration		1.0			

**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 (m ³)	Flood (m ³)	Status
60 minute summer	10	63	77.176	0.304	19.7	1.1345	0.0000	SURCHARGED
60 minute summer	11	65	77.176	0.340	25.7	0.5029	0.0000	SURCHARGED
60 minute summer	12_2	34	79.765	0.015	0.8	0.0176	0.0000	OK
60 minute summer	12_1	33	77.716	0.066	3.5	0.0991	0.0000	OK
60 minute summer	12	64	77.177	0.350	31.1	0.4338	0.0000	SURCHARGED
60 minute summer	12_OUT	64	77.176	0.355	30.3	27.7090	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
60 minute summer	10	10	11	18.5	0.412	0.524	2.4301
60 minute summer	11	11	12	24.2	0.522	0.685	0.6199
60 minute summer	12_2	12_2	12	0.8	0.746	0.008	0.0331
60 minute summer	12_1	12_1	12	3.5	0.444	0.174	0.1806
60 minute summer	12	12	12_OUT	30.3	0.977	0.858	0.3780
60 minute summer	12_OUT	Infiltration		1.0			

**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 (m ³)	Flood (m ³)	Status
120 minute summer	10	122	77.261	0.389	13.5	1.4512	0.0000	SURCHARGED
120 minute summer	11	126	77.262	0.426	16.7	0.6292	0.0000	SURCHARGED
120 minute summer	12_2	64	79.763	0.013	0.6	0.0153	0.0000	OK
120 minute summer	12_1	64	77.705	0.055	2.4	0.0833	0.0000	OK
120 minute summer	12	122	77.262	0.435	20.0	0.5388	0.0000	SURCHARGED
120 minute summer	12_OUT	124	77.261	0.440	19.3	34.3887	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
120 minute summer	10	10	11	11.7	0.296	0.333	2.4301
120 minute summer	11	11	12	15.2	0.336	0.430	0.6199
120 minute summer	12_2	12_2	12	0.6	0.682	0.006	0.0271
120 minute summer	12_1	12_1	12	2.4	0.394	0.120	0.1404
120 minute summer	12	12	12_OUT	19.3	0.821	0.546	0.3780
120 minute summer	12_OUT	Infiltration		1.0			

**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 (m ³)	Flood (m ³)	Status
180 minute summer	10	180	77.304	0.432	10.4	1.6112	0.0000	SURCHARGED
180 minute summer	11	184	77.305	0.469	12.8	0.6929	0.0000	SURCHARGED
180 minute summer	12_2	100	79.761	0.011	0.4	0.0127	0.0000	OK
180 minute summer	12_1	96	77.700	0.050	1.9	0.0749	0.0000	OK
180 minute summer	12	184	77.305	0.478	15.4	0.5931	0.0000	SURCHARGED
180 minute summer	12_OUT	184	77.304	0.483	14.9	37.7356	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
180 minute summer	10	10	11	9.0	0.239	0.255	2.4301
180 minute summer	11	11	12	11.7	0.266	0.331	0.6199
180 minute summer	12_2	12_2	12	0.4	0.607	0.004	0.0204
180 minute summer	12_1	12_1	12	1.9	0.369	0.096	0.1194
180 minute summer	12	12	12_OUT	14.9	0.738	0.422	0.3780
180 minute summer	12_OUT	Infiltration		1.0			

**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 (m ³)	Flood (m ³)	Status
240 minute summer	10	244	77.336	0.464	8.9	1.7300	0.0000	SURCHARGED
240 minute summer	11	244	77.333	0.497	11.0	0.7338	0.0000	SURCHARGED
240 minute summer	12_2	128	79.761	0.011	0.4	0.0127	0.0000	OK
240 minute summer	12_1	124	77.696	0.046	1.6	0.0687	0.0000	OK
240 minute summer	12	240	77.336	0.509	13.2	0.6308	0.0000	SURCHARGED
240 minute summer	12_OUT	240	77.333	0.512	12.7	39.9622	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
240 minute summer	10	10	11	7.7	0.215	0.218	2.4301
240 minute summer	11	11	12	10.0	0.245	0.283	0.6199
240 minute summer	12_2	12_2	12	0.4	0.607	0.004	0.0204
240 minute summer	12_1	12_1	12	1.6	0.347	0.079	0.1051
240 minute summer	12	12	12_OUT	12.7	0.656	0.361	0.3780
240 minute summer	12_OUT	Infiltration		1.1			

**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 (m ³)	Flood (m ³)	Status
360 minute summer	10	344	77.360	0.488	7.0	1.8189	0.0000	SURCHARGED
360 minute summer	11	352	77.357	0.521	8.7	0.7701	0.0000	SURCHARGED
360 minute summer	12_2	184	79.759	0.009	0.3	0.0112	0.0000	OK
360 minute summer	12_1	184	77.692	0.042	1.3	0.0625	0.0000	OK
360 minute summer	12	328	77.357	0.530	10.5	0.6571	0.0000	SURCHARGED
360 minute summer	12_OUT	328	77.356	0.535	10.2	41.8057	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
360 minute summer	10	10	11	6.1	0.187	0.172	2.4301
360 minute summer	11	11	12	7.9	0.222	0.225	0.6199
360 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
360 minute summer	12_1	12_1	12	1.3	0.325	0.064	0.0909
360 minute summer	12	12	12_OUT	10.2	0.576	0.289	0.3780
360 minute summer	12_OUT	Infiltration		1.1			

**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 (m ³)	Flood (m ³)	Status
480 minute summer	10	384	77.373	0.501	5.6	1.8683	0.0000	SURCHARGED
480 minute summer	11	384	77.371	0.535	7.0	0.7900	0.0000	SURCHARGED
480 minute summer	12_2	232	79.758	0.008	0.2	0.0093	0.0000	OK
480 minute summer	12_1	248	77.687	0.037	1.0	0.0562	0.0000	OK
480 minute summer	12	384	77.370	0.543	8.7	0.6731	0.0000	SURCHARGED
480 minute summer	12_OUT	400	77.369	0.548	8.5	42.7571	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
480 minute summer	10	10	11	4.9	0.177	0.139	2.4301
480 minute summer	11	11	12	6.7	0.203	0.188	0.6199
480 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
480 minute summer	12_1	12_1	12	1.0	0.303	0.050	0.0769
480 minute summer	12	12	12_OUT	8.5	0.559	0.241	0.3780
480 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	10	495	77.373	0.501	4.7	1.8686	0.0000	SURCHARGED
600 minute summer	11	495	77.371	0.535	5.9	0.7896	0.0000	SURCHARGED
600 minute summer	12_2	300	79.758	0.008	0.2	0.0093	0.0000	OK
600 minute summer	12_1	315	77.684	0.034	0.8	0.0510	0.0000	OK
600 minute summer	12	465	77.370	0.543	7.1	0.6734	0.0000	SURCHARGED
600 minute summer	12_OUT	465	77.370	0.549	7.5	42.8716	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	4.2	0.168	0.120	2.4301
600 minute summer	11	11	12	5.5	0.200	0.156	0.6199
600 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
600 minute summer	12_1	12_1	12	0.8	0.282	0.040	0.0663
600 minute summer	12	12	12_OUT	7.5	0.535	0.213	0.3780
600 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 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 (m ³)	Flood (m ³)	Status
720 minute summer	10	555	77.379	0.507	4.2	1.8928	0.0000	SURCHARGED
720 minute summer	11	555	77.377	0.541	5.4	0.7995	0.0000	SURCHARGED
720 minute summer	12_2	375	79.758	0.008	0.2	0.0093	0.0000	OK
720 minute summer	12_1	375	77.684	0.034	0.8	0.0510	0.0000	OK
720 minute summer	12	525	77.378	0.551	6.8	0.6837	0.0000	SURCHARGED
720 minute summer	12_OUT	525	77.377	0.556	6.7	43.4000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	3.8	0.165	0.107	2.4301
720 minute summer	11	11	12	5.2	0.177	0.146	0.6199
720 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
720 minute summer	12_1	12_1	12	0.8	0.282	0.040	0.0663
720 minute summer	12	12	12_OUT	6.7	0.517	0.190	0.3780
720 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	10	720	77.370	0.498	3.5	1.8579	0.0000	SURCHARGED
960 minute summer	11	675	77.371	0.535	4.4	0.7908	0.0000	SURCHARGED
960 minute summer	12_2	495	79.758	0.008	0.2	0.0093	0.0000	OK
960 minute summer	12_1	495	77.680	0.030	0.6	0.0449	0.0000	OK
960 minute summer	12	660	77.372	0.545	5.6	0.6760	0.0000	SURCHARGED
960 minute summer	12_OUT	675	77.372	0.551	5.5	43.0424	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	3.1	0.163	0.088	2.4301
960 minute summer	11	11	12	4.3	0.170	0.121	0.6199
960 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
960 minute summer	12_1	12_1	12	0.6	0.255	0.030	0.0549
960 minute summer	12	12	12_OUT	5.5	0.453	0.156	0.3780
960 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year 1440 minute summer. 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 (m ³)	Flood (m ³)	Status
1440 minute summer	10	960	77.363	0.491	2.6	1.8332	0.0000	SURCHARGED
1440 minute summer	11	960	77.363	0.527	3.3	0.7785	0.0000	SURCHARGED
1440 minute summer	12_2	630	79.756	0.006	0.1	0.0069	0.0000	OK
1440 minute summer	12_1	750	77.678	0.028	0.5	0.0417	0.0000	OK
1440 minute summer	12	960	77.363	0.536	4.6	0.6642	0.0000	SURCHARGED
1440 minute summer	12_OUT	960	77.363	0.542	3.9	42.2848	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
1440 minute summer	10	10	11	2.3	0.161	0.066	2.4301
1440 minute summer	11	11	12	3.6	0.167	0.102	0.6199
1440 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
1440 minute summer	12_1	12_1	12	0.5	0.242	0.025	0.0483
1440 minute summer	12	12	12_OUT	3.9	0.371	0.111	0.3780
1440 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
15 minute summer	10	11	77.095	0.223	31.5	0.8331	0.0000	OK
15 minute summer	11	19	77.062	0.226	42.2	0.3340	0.0000	OK
15 minute summer	12_2	11	79.768	0.018	1.3	0.0219	0.0000	OK
15 minute summer	12_1	11	77.732	0.082	5.7	0.1240	0.0000	OK
15 minute summer	12	20	77.062	0.235	52.1	0.2913	0.0000	OK
15 minute summer	12_OUT	20	77.062	0.241	51.6	18.8451	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
15 minute summer	10	10	11	30.6	0.551	0.867	1.9363
15 minute summer	11	11	12	41.3	0.830	1.168	0.5110
15 minute summer	12_2	12_2	12	1.3	0.866	0.013	0.0463
15 minute summer	12_1	12_1	12	5.5	0.510	0.277	0.2492
15 minute summer	12	12	12_OUT	51.6	1.861	1.461	0.3219
15 minute summer	12_OUT	Infiltration		1.0			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
30 minute summer	10	36	77.153	0.281	30.0	1.0476	0.0000	OK
30 minute summer	11	35	77.153	0.317	39.8	0.4687	0.0000	SURCHARGED
30 minute summer	12_2	18	79.768	0.018	1.3	0.0219	0.0000	OK
30 minute summer	12_1	18	77.731	0.081	5.4	0.1219	0.0000	OK
30 minute summer	12	36	77.153	0.326	47.8	0.4040	0.0000	SURCHARGED
30 minute summer	12_OUT	34	77.153	0.332	46.4	25.9104	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
30 minute summer	10	10	11	28.8	0.522	0.814	2.3977
30 minute summer	11	11	12	37.1	0.740	1.050	0.6199
30 minute summer	12_2	12_2	12	1.3	0.864	0.013	0.0461
30 minute summer	12_1	12_1	12	5.3	0.503	0.266	0.2429
30 minute summer	12	12	12_OUT	46.4	1.275	1.314	0.3780
30 minute summer	12_OUT	Infiltration		1.0			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
60 minute summer	10	65	77.259	0.387	23.6	1.4439	0.0000	SURCHARGED
60 minute summer	11	65	77.259	0.423	30.5	0.6242	0.0000	SURCHARGED
60 minute summer	12_2	34	79.766	0.016	1.0	0.0195	0.0000	OK
60 minute summer	12_1	33	77.722	0.072	4.2	0.1082	0.0000	OK
60 minute summer	12	64	77.259	0.432	36.8	0.5358	0.0000	SURCHARGED
60 minute summer	12_OUT	64	77.259	0.438	35.8	34.1678	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
60 minute summer	10	10	11	21.8	0.416	0.617	2.4301
60 minute summer	11	11	12	28.5	0.525	0.806	0.6199
60 minute summer	12_2	12_2	12	1.0	0.799	0.010	0.0387
60 minute summer	12_1	12_1	12	4.1	0.468	0.208	0.2050
60 minute summer	12	12	12_OUT	35.8	1.032	1.014	0.3780
60 minute summer	12_OUT	Infiltration		1.0			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
120 minute summer	10	124	77.366	0.494	16.2	1.8424	0.0000	SURCHARGED
120 minute summer	11	124	77.367	0.531	19.9	0.7840	0.0000	SURCHARGED
120 minute summer	12_2	64	79.764	0.014	0.7	0.0165	0.0000	OK
120 minute summer	12_1	64	77.711	0.061	2.9	0.0910	0.0000	OK
120 minute summer	12	124	77.367	0.540	24.2	0.6695	0.0000	SURCHARGED
120 minute summer	12_OUT	124	77.366	0.545	23.5	42.5382	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
120 minute summer	10	10	11	14.0	0.283	0.397	2.4301
120 minute summer	11	11	12	18.4	0.316	0.520	0.6199
120 minute summer	12_2	12_2	12	0.7	0.715	0.007	0.0302
120 minute summer	12_1	12_1	12	2.9	0.420	0.145	0.1597
120 minute summer	12	12	12_OUT	23.5	0.844	0.665	0.3780
120 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
180 minute summer	10	184	77.428	0.556	12.4	2.0743	0.0000	SURCHARGED
180 minute summer	11	184	77.428	0.592	15.6	0.8743	0.0000	SURCHARGED
180 minute summer	12_2	96	79.762	0.012	0.5	0.0141	0.0000	OK
180 minute summer	12_1	96	77.703	0.053	2.2	0.0801	0.0000	OK
180 minute summer	12	184	77.429	0.602	19.6	0.7459	0.0000	SURCHARGED
180 minute summer	12_OUT	184	77.428	0.607	19.3	47.3780	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
180 minute summer	10	10	11	11.0	0.225	0.312	2.4301
180 minute summer	11	11	12	15.2	0.278	0.431	0.6199
180 minute summer	12_2	12_2	12	0.5	0.647	0.005	0.0239
180 minute summer	12_1	12_1	12	2.2	0.386	0.111	0.1324
180 minute summer	12	12	12_OUT	19.3	0.788	0.546	0.3780
180 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
240 minute summer	10	244	77.466	0.594	10.7	2.2150	0.0000	SURCHARGED
240 minute summer	11	244	77.465	0.629	13.3	0.9293	0.0000	SURCHARGED
240 minute summer	12_2	124	79.761	0.011	0.5	0.0138	0.0000	OK
240 minute summer	12_1	124	77.700	0.050	1.9	0.0745	0.0000	OK
240 minute summer	12	244	77.464	0.637	16.7	0.7905	0.0000	SURCHARGED
240 minute summer	12_OUT	244	77.464	0.643	16.4	50.2264	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
240 minute summer	10	10	11	9.4	0.208	0.266	2.4301
240 minute summer	11	11	12	13.0	0.263	0.369	0.6199
240 minute summer	12_2	12_2	12	0.5	0.640	0.005	0.0232
240 minute summer	12_1	12_1	12	1.9	0.367	0.094	0.1182
240 minute summer	12	12	12_OUT	16.4	0.738	0.465	0.3780
240 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
360 minute summer	10	360	77.507	0.635	8.4	2.3691	0.0000	FLOOD RISK
360 minute summer	11	360	77.505	0.669	10.8	0.9875	0.0000	SURCHARGED
360 minute summer	12_2	184	79.760	0.010	0.4	0.0126	0.0000	OK
360 minute summer	12_1	184	77.694	0.044	1.5	0.0667	0.0000	OK
360 minute summer	12	352	77.504	0.677	13.3	0.8390	0.0000	SURCHARGED
360 minute summer	12_OUT	360	77.503	0.682	13.5	53.2849	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
360 minute summer	10	10	11	7.7	0.189	0.219	2.4301
360 minute summer	11	11	12	10.3	0.243	0.292	0.6199
360 minute summer	12_2	12_2	12	0.4	0.603	0.004	0.0200
360 minute summer	12_1	12_1	12	1.5	0.339	0.074	0.1006
360 minute summer	12	12	12_OUT	13.5	0.598	0.383	0.3780
360 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% 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 (m ³)	Flood (m ³)	Status
480 minute summer	10	424	77.526	0.654	6.7	2.4398	0.0000	FLOOD RISK
480 minute summer	11	424	77.524	0.688	8.8	1.0157	0.0000	SURCHARGED
480 minute summer	12_2	248	79.759	0.009	0.3	0.0112	0.0000	OK
480 minute summer	12_1	248	77.691	0.041	1.2	0.0609	0.0000	OK
480 minute summer	12	440	77.523	0.696	11.1	0.8632	0.0000	SURCHARGED
480 minute summer	12_OUT	432	77.523	0.702	11.0	54.7741	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
480 minute summer	10	10	11	6.3	0.180	0.178	2.4301
480 minute summer	11	11	12	8.8	0.214	0.248	0.6199
480 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
480 minute summer	12_1	12_1	12	1.2	0.320	0.060	0.0874
480 minute summer	12	12	12_OUT	11.0	0.576	0.312	0.3780
480 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% CC 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	10	480	77.526	0.654	5.6	2.4409	0.0000	FLOOD RISK
600 minute summer	11	495	77.525	0.689	7.3	1.0171	0.0000	SURCHARGED
600 minute summer	12_2	285	79.758	0.008	0.2	0.0093	0.0000	OK
600 minute summer	12_1	315	77.687	0.037	1.0	0.0562	0.0000	OK
600 minute summer	12	495	77.527	0.700	9.3	0.8674	0.0000	SURCHARGED
600 minute summer	12_OUT	495	77.525	0.704	8.9	54.9761	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	5.2	0.172	0.148	2.4301
600 minute summer	11	11	12	7.3	0.203	0.206	0.6199
600 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
600 minute summer	12_1	12_1	12	1.0	0.303	0.050	0.0769
600 minute summer	12	12	12_OUT	8.9	0.570	0.251	0.3780
600 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% CC 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 (m ³)	Flood (m ³)	Status
720 minute summer	10	555	77.533	0.661	5.1	2.4670	0.0000	FLOOD RISK
720 minute summer	11	555	77.535	0.699	6.6	1.0321	0.0000	SURCHARGED
720 minute summer	12_2	360	79.758	0.008	0.2	0.0093	0.0000	OK
720 minute summer	12_1	375	77.686	0.036	0.9	0.0537	0.0000	OK
720 minute summer	12	555	77.535	0.708	8.3	0.8776	0.0000	SURCHARGED
720 minute summer	12_OUT	570	77.535	0.714	8.4	55.7134	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	4.7	0.164	0.134	2.4301
720 minute summer	11	11	12	6.5	0.203	0.184	0.6199
720 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
720 minute summer	12_1	12_1	12	0.9	0.293	0.045	0.0717
720 minute summer	12	12	12_OUT	8.4	0.550	0.237	0.3780
720 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% CC 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	10	690	77.535	0.663	4.2	2.4743	0.0000	FLOOD RISK
960 minute summer	11	690	77.538	0.702	5.5	1.0366	0.0000	SURCHARGED
960 minute summer	12_2	480	79.758	0.008	0.2	0.0093	0.0000	OK
960 minute summer	12_1	495	77.684	0.034	0.8	0.0510	0.0000	OK
960 minute summer	12	720	77.540	0.713	6.6	0.8845	0.0000	SURCHARGED
960 minute summer	12_OUT	690	77.539	0.718	7.4	56.0545	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	3.9	0.154	0.111	2.4301
960 minute summer	11	11	12	5.0	0.177	0.141	0.6199
960 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
960 minute summer	12_1	12_1	12	0.8	0.282	0.040	0.0663
960 minute summer	12	12	12_OUT	7.4	0.531	0.209	0.3780
960 minute summer	12_OUT	Infiltration		1.1			

**Results for 30 year +20% CC 1440 minute summer. 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 (m ³)	Flood (m ³)	Status
1440 minute summer	10	960	77.531	0.659	3.2	2.4581	0.0000	FLOOD RISK
1440 minute summer	11	990	77.532	0.696	4.2	1.0281	0.0000	SURCHARGED
1440 minute summer	12_2	630	79.756	0.006	0.1	0.0069	0.0000	OK
1440 minute summer	12_1	750	77.680	0.030	0.6	0.0449	0.0000	OK
1440 minute summer	12	990	77.532	0.705	5.4	0.8748	0.0000	SURCHARGED
1440 minute summer	12_OUT	990	77.533	0.712	5.1	55.5739	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
1440 minute summer	10	10	11	3.0	0.154	0.086	2.4301
1440 minute summer	11	11	12	4.3	0.168	0.122	0.6199
1440 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
1440 minute summer	12_1	12_1	12	0.6	0.255	0.030	0.0549
1440 minute summer	12	12	12_OUT	5.1	0.419	0.146	0.3780
1440 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 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 (m ³)	Flood (m ³)	Status
15 minute summer	10	11	77.107	0.235	34.0	0.8781	0.0000	OK
15 minute summer	11	21	77.080	0.244	45.3	0.3607	0.0000	OK
15 minute summer	12_2	11	79.769	0.019	1.5	0.0230	0.0000	OK
15 minute summer	12_1	11	77.735	0.085	6.1	0.1284	0.0000	OK
15 minute summer	12	20	77.080	0.253	55.9	0.3136	0.0000	OK
15 minute summer	12_OUT	20	77.081	0.260	55.3	20.2629	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
15 minute summer	10	10	11	32.9	0.565	0.930	2.0377
15 minute summer	11	11	12	44.2	0.848	1.252	0.5490
15 minute summer	12_2	12_2	12	1.4	0.895	0.015	0.0496
15 minute summer	12_1	12_1	12	5.9	0.522	0.297	0.2615
15 minute summer	12	12	12_OUT	55.3	1.867	1.565	0.3439
15 minute summer	12_OUT	Infiltration		1.0			

**Results for 100 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 (m ³)	Flood (m ³)	Status
30 minute summer	10	35	77.186	0.314	32.6	1.1707	0.0000	SURCHARGED
30 minute summer	11	34	77.186	0.350	42.8	0.5163	0.0000	SURCHARGED
30 minute summer	12_2	18	79.769	0.019	1.4	0.0227	0.0000	OK
30 minute summer	12_1	18	77.735	0.085	5.9	0.1274	0.0000	OK
30 minute summer	12	35	77.185	0.358	52.1	0.4445	0.0000	SURCHARGED
30 minute summer	12_OUT	34	77.185	0.364	50.5	28.4564	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
30 minute summer	10	10	11	30.8	0.532	0.871	2.4301
30 minute summer	11	11	12	40.5	0.753	1.145	0.6199
30 minute summer	12_2	12_2	12	1.4	0.885	0.014	0.0485
30 minute summer	12_1	12_1	12	5.8	0.517	0.291	0.2584
30 minute summer	12	12	12_OUT	50.5	1.273	1.431	0.3780
30 minute summer	12_OUT	Infiltration		1.0			

**Results for 100 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 (m ³)	Flood (m ³)	Status
60 minute summer	10	65	77.301	0.429	25.6	1.6017	0.0000	SURCHARGED
60 minute summer	11	64	77.301	0.465	32.8	0.6866	0.0000	SURCHARGED
60 minute summer	12_2	33	79.767	0.017	1.1	0.0203	0.0000	OK
60 minute summer	12_1	33	77.725	0.075	4.6	0.1131	0.0000	OK
60 minute summer	12	65	77.303	0.476	39.7	0.5902	0.0000	SURCHARGED
60 minute summer	12_OUT	64	77.301	0.480	38.6	37.4955	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
60 minute summer	10	10	11	23.4	0.417	0.662	2.4301
60 minute summer	11	11	12	30.6	0.527	0.866	0.6199
60 minute summer	12_2	12_2	12	1.1	0.820	0.011	0.0411
60 minute summer	12_1	12_1	12	4.5	0.482	0.229	0.2184
60 minute summer	12	12	12_OUT	38.6	1.051	1.093	0.3780
60 minute summer	12_OUT	Infiltration		1.0			

**Results for 100 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 (m ³)	Flood (m ³)	Status
120 minute summer	10	124	77.415	0.543	17.4	2.0267	0.0000	SURCHARGED
120 minute summer	11	126	77.415	0.579	21.4	0.8559	0.0000	SURCHARGED
120 minute summer	12_2	66	79.764	0.014	0.7	0.0165	0.0000	OK
120 minute summer	12_1	64	77.712	0.062	3.1	0.0940	0.0000	OK
120 minute summer	12	124	77.415	0.588	26.4	0.7293	0.0000	SURCHARGED
120 minute summer	12_OUT	124	77.415	0.594	26.0	46.4082	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
120 minute summer	10	10	11	15.0	0.277	0.424	2.4301
120 minute summer	11	11	12	20.3	0.318	0.574	0.6199
120 minute summer	12_2	12_2	12	0.7	0.716	0.007	0.0302
120 minute summer	12_1	12_1	12	3.1	0.429	0.156	0.1672
120 minute summer	12	12	12_OUT	26.0	0.873	0.735	0.3780
120 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 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 (m ³)	Flood (m ³)	Status
180 minute summer	10	184	77.479	0.607	13.3	2.2638	0.0000	FLOOD RISK
180 minute summer	11	184	77.480	0.644	17.2	0.9506	0.0000	SURCHARGED
180 minute summer	12_2	96	79.763	0.013	0.6	0.0153	0.0000	OK
180 minute summer	12_1	96	77.705	0.055	2.4	0.0834	0.0000	OK
180 minute summer	12	184	77.479	0.652	21.8	0.8086	0.0000	SURCHARGED
180 minute summer	12_OUT	184	77.478	0.657	21.2	51.3354	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
180 minute summer	10	10	11	12.3	0.226	0.349	2.4301
180 minute summer	11	11	12	17.0	0.284	0.482	0.6199
180 minute summer	12_2	12_2	12	0.6	0.683	0.006	0.0272
180 minute summer	12_1	12_1	12	2.4	0.395	0.121	0.1408
180 minute summer	12	12	12_OUT	21.2	0.807	0.599	0.3780
180 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 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 (m ³)	Flood (m ³)	Status
240 minute summer	10	244	77.513	0.641	11.4	2.3933	0.0000	FLOOD RISK
240 minute summer	11	240	77.513	0.677	14.7	1.0004	0.0000	SURCHARGED
240 minute summer	12_2	128	79.762	0.012	0.5	0.0141	0.0000	OK
240 minute summer	12_1	124	77.701	0.051	2.0	0.0763	0.0000	OK
240 minute summer	12	240	77.514	0.687	18.4	0.8518	0.0000	SURCHARGED
240 minute summer	12_OUT	244	77.514	0.693	18.2	54.1191	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
240 minute summer	10	10	11	10.5	0.209	0.298	2.4301
240 minute summer	11	11	12	14.4	0.270	0.407	0.6199
240 minute summer	12_2	12_2	12	0.5	0.647	0.005	0.0239
240 minute summer	12_1	12_1	12	2.0	0.373	0.099	0.1227
240 minute summer	12	12	12_OUT	18.2	0.743	0.516	0.3780
240 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 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 (m ³)	Flood (m ³)	Status
360 minute summer	10	360	77.556	0.684	8.9	2.5510	0.0000	FLOOD RISK
360 minute summer	11	360	77.553	0.717	11.6	1.0596	0.0000	SURCHARGED
360 minute summer	12_2	184	79.760	0.010	0.4	0.0126	0.0000	OK
360 minute summer	12_1	184	77.696	0.046	1.6	0.0687	0.0000	OK
360 minute summer	12	360	77.551	0.724	14.8	0.8983	0.0000	SURCHARGED
360 minute summer	12_OUT	360	77.550	0.729	14.0	56.9594	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
360 minute summer	10	10	11	8.3	0.191	0.234	2.4301
360 minute summer	11	11	12	11.6	0.243	0.328	0.6199
360 minute summer	12_2	12_2	12	0.4	0.603	0.004	0.0200
360 minute summer	12_1	12_1	12	1.6	0.347	0.079	0.1051
360 minute summer	12	12	12_OUT	14.0	0.601	0.396	0.3780
360 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 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 (m ³)	Flood (m ³)	Status
480 minute summer	10	424	77.568	0.696	7.1	2.5986	0.0000	FLOOD RISK
480 minute summer	11	424	77.565	0.729	9.2	1.0774	0.0000	SURCHARGED
480 minute summer	12_2	248	79.759	0.009	0.3	0.0112	0.0000	OK
480 minute summer	12_1	248	77.692	0.042	1.3	0.0631	0.0000	OK
480 minute summer	12	432	77.566	0.739	11.8	0.9167	0.0000	SURCHARGED
480 minute summer	12_OUT	440	77.565	0.744	11.3	58.0854	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
480 minute summer	10	10	11	6.6	0.181	0.187	2.4301
480 minute summer	11	11	12	9.2	0.224	0.262	0.6199
480 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
480 minute summer	12_1	12_1	12	1.3	0.327	0.065	0.0925
480 minute summer	12	12	12_OUT	11.3	0.576	0.320	0.3780
480 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 year 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	10	510	77.572	0.700	5.9	2.6114	0.0000	FLOOD RISK
600 minute summer	11	510	77.570	0.734	7.7	1.0838	0.0000	SURCHARGED
600 minute summer	12_2	315	79.759	0.009	0.3	0.0112	0.0000	OK
600 minute summer	12_1	315	77.689	0.039	1.1	0.0586	0.0000	OK
600 minute summer	12	495	77.571	0.744	9.4	0.9221	0.0000	SURCHARGED
600 minute summer	12_OUT	495	77.570	0.749	10.1	58.4469	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	5.5	0.175	0.157	2.4301
600 minute summer	11	11	12	7.2	0.212	0.203	0.6199
600 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
600 minute summer	12_1	12_1	12	1.1	0.312	0.055	0.0822
600 minute summer	12	12	12_OUT	10.1	0.570	0.286	0.3780
600 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 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 (m ³)	Flood (m ³)	Status
720 minute summer	10	600	77.567	0.695	5.3	2.5940	0.0000	FLOOD RISK
720 minute summer	11	585	77.567	0.731	6.9	1.0802	0.0000	SURCHARGED
720 minute summer	12_2	345	79.758	0.008	0.2	0.0093	0.0000	OK
720 minute summer	12_1	375	77.686	0.036	0.9	0.0537	0.0000	OK
720 minute summer	12	570	77.572	0.745	8.2	0.9234	0.0000	SURCHARGED
720 minute summer	12_OUT	570	77.569	0.748	9.0	58.3761	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	5.0	0.165	0.141	2.4301
720 minute summer	11	11	12	6.4	0.203	0.182	0.6199
720 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
720 minute summer	12_1	12_1	12	0.9	0.293	0.045	0.0717
720 minute summer	12	12	12_OUT	9.0	0.570	0.256	0.3780
720 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 year 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	10	705	77.574	0.702	4.4	2.6183	0.0000	FLOOD RISK
960 minute summer	11	705	77.575	0.739	5.7	1.0910	0.0000	SURCHARGED
960 minute summer	12_2	480	79.758	0.008	0.2	0.0093	0.0000	OK
960 minute summer	12_1	495	77.684	0.034	0.8	0.0510	0.0000	OK
960 minute summer	12	690	77.574	0.747	7.3	0.9267	0.0000	SURCHARGED
960 minute summer	12_OUT	690	77.574	0.753	7.1	58.8120	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	4.1	0.154	0.117	2.4301
960 minute summer	11	11	12	5.7	0.177	0.161	0.6199
960 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
960 minute summer	12_1	12_1	12	0.8	0.282	0.040	0.0663
960 minute summer	12	12	12_OUT	7.1	0.517	0.200	0.3780
960 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year 1440 minute summer. 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 (m ³)	Flood (m ³)	Status
1440 minute summer	10	960	77.563	0.691	3.3	2.5773	0.0000	FLOOD RISK
1440 minute summer	11	990	77.564	0.728	4.3	1.0755	0.0000	SURCHARGED
1440 minute summer	12_2	600	79.756	0.006	0.1	0.0069	0.0000	OK
1440 minute summer	12_1	750	77.680	0.030	0.6	0.0449	0.0000	OK
1440 minute summer	12	1020	77.564	0.737	5.1	0.9133	0.0000	SURCHARGED
1440 minute summer	12_OUT	990	77.565	0.744	5.9	58.0769	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
1440 minute summer	10	10	11	3.1	0.154	0.089	2.4301
1440 minute summer	11	11	12	4.0	0.168	0.114	0.6199
1440 minute summer	12_2	12_2	12	0.1	0.402	0.001	0.0077
1440 minute summer	12_1	12_1	12	0.6	0.255	0.030	0.0549
1440 minute summer	12	12	12_OUT	5.9	0.406	0.168	0.3780
1440 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
15 minute summer	10	11	77.144	0.272	40.8	1.0157	0.0000	OK
15 minute summer	11	20	77.134	0.298	54.0	0.4408	0.0000	OK
15 minute summer	12_2	11	79.771	0.021	1.7	0.0249	0.0000	OK
15 minute summer	12_1	11	77.744	0.094	7.3	0.1410	0.0000	OK
15 minute summer	12	20	77.134	0.307	66.6	0.3811	0.0000	SURCHARGED
15 minute summer	12_OUT	19	77.134	0.313	65.6	24.4318	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
15 minute summer	10	10	11	39.0	0.599	1.103	2.3448
15 minute summer	11	11	12	52.4	0.894	1.484	0.6196
15 minute summer	12_2	12_2	12	1.7	0.941	0.017	0.0558
15 minute summer	12_1	12_1	12	7.1	0.552	0.358	0.2976
15 minute summer	12	12	12_OUT	65.6	1.861	1.856	0.3780
15 minute summer	12_OUT	Infiltration		1.0			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
30 minute summer	10	35	77.269	0.397	39.1	1.4794	0.0000	SURCHARGED
30 minute summer	11	36	77.269	0.433	50.4	0.6394	0.0000	SURCHARGED
30 minute summer	12_2	18	79.771	0.021	1.7	0.0249	0.0000	OK
30 minute summer	12_1	18	77.743	0.093	7.0	0.1392	0.0000	OK
30 minute summer	12	35	77.269	0.442	62.2	0.5476	0.0000	SURCHARGED
30 minute summer	12_OUT	34	77.268	0.447	60.9	34.9405	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
30 minute summer	10	10	11	36.0	0.554	1.018	2.4301
30 minute summer	11	11	12	48.3	0.763	1.366	0.6199
30 minute summer	12_2	12_2	12	1.7	0.939	0.017	0.0555
30 minute summer	12_1	12_1	12	6.9	0.546	0.347	0.2918
30 minute summer	12	12	12_OUT	60.9	1.336	1.723	0.3780
30 minute summer	12_OUT	Infiltration		1.0			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
60 minute summer	10	65	77.410	0.538	30.7	2.0090	0.0000	SURCHARGED
60 minute summer	11	64	77.410	0.574	38.6	0.8474	0.0000	SURCHARGED
60 minute summer	12_2	33	79.768	0.018	1.3	0.0219	0.0000	OK
60 minute summer	12_1	33	77.732	0.082	5.5	0.1235	0.0000	OK
60 minute summer	12	64	77.410	0.583	48.3	0.7232	0.0000	SURCHARGED
60 minute summer	12_OUT	64	77.410	0.589	47.6	45.9935	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
60 minute summer	10	10	11	27.7	0.418	0.785	2.4301
60 minute summer	11	11	12	37.7	0.536	1.066	0.6199
60 minute summer	12_2	12_2	12	1.3	0.865	0.013	0.0462
60 minute summer	12_1	12_1	12	5.4	0.508	0.274	0.2477
60 minute summer	12	12	12_OUT	47.6	1.121	1.348	0.3780
60 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
120 minute summer	10	124	77.553	0.681	20.9	2.5417	0.0000	FLOOD RISK
120 minute summer	11	126	77.554	0.718	27.1	1.0599	0.0000	SURCHARGED
120 minute summer	12_2	64	79.765	0.015	0.9	0.0186	0.0000	OK
120 minute summer	12_1	64	77.718	0.068	3.7	0.1022	0.0000	OK
120 minute summer	12	124	77.554	0.727	34.0	0.9010	0.0000	SURCHARGED
120 minute summer	12_OUT	124	77.553	0.732	33.4	57.1396	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
120 minute summer	10	10	11	19.4	0.275	0.548	2.4301
120 minute summer	11	11	12	26.5	0.377	0.751	0.6199
120 minute summer	12_2	12_2	12	0.9	0.773	0.009	0.0359
120 minute summer	12_1	12_1	12	3.7	0.452	0.186	0.1893
120 minute summer	12	12	12_OUT	33.4	0.959	0.944	0.3780
120 minute summer	12_OUT	Infiltration		1.1			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
180 minute summer	10	184	77.633	0.761	15.9	2.8378	0.0000	FLOOD RISK
180 minute summer	11	184	77.633	0.797	20.7	1.1770	0.0000	SURCHARGED
180 minute summer	12_2	96	79.764	0.014	0.7	0.0165	0.0000	OK
180 minute summer	12_1	96	77.711	0.061	2.9	0.0912	0.0000	OK
180 minute summer	12	184	77.633	0.806	25.7	0.9994	0.0000	SURCHARGED
180 minute summer	12_OUT	184	77.633	0.812	25.9	63.4022	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
180 minute summer	10	10	11	14.8	0.233	0.418	2.4301
180 minute summer	11	11	12	19.9	0.302	0.563	0.6199
180 minute summer	12_2	12_2	12	0.7	0.716	0.007	0.0302
180 minute summer	12_1	12_1	12	2.9	0.420	0.146	0.1600
180 minute summer	12	12	12_OUT	25.9	0.819	0.732	0.3780
180 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
240 minute summer	10	244	77.684	0.812	13.7	3.0283	0.0000	FLOOD RISK
240 minute summer	11	244	77.684	0.848	17.7	1.2523	0.0000	SURCHARGED
240 minute summer	12_2	124	79.763	0.013	0.6	0.0151	0.0000	OK
240 minute summer	12_1	124	77.706	0.056	2.5	0.0843	0.0000	OK
240 minute summer	12	244	77.684	0.857	22.2	1.0626	0.0000	SURCHARGED
240 minute summer	12_OUT	244	77.684	0.863	21.9	67.3789	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
240 minute summer	10	10	11	12.7	0.218	0.359	2.4301
240 minute summer	11	11	12	17.3	0.281	0.489	0.6199
240 minute summer	12_2	12_2	12	0.6	0.676	0.006	0.0266
240 minute summer	12_1	12_1	12	2.4	0.397	0.123	0.1616
240 minute summer	12	12	12_OUT	21.9	0.794	0.619	0.3780
240 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
360 minute summer	10	360	77.735	0.863	10.7	3.2206	0.0000	FLOOD RISK
360 minute summer	11	360	77.735	0.899	13.8	1.3281	0.0000	SURCHARGED
360 minute summer	12_2	184	79.762	0.012	0.5	0.0139	0.0000	OK
360 minute summer	12_1	360	77.735	0.085	1.9	0.1281	0.0000	OK
360 minute summer	12	360	77.735	0.908	17.4	1.1261	0.0000	SURCHARGED
360 minute summer	12_OUT	360	77.735	0.914	17.1	71.3779	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
360 minute summer	10	10	11	9.9	0.201	0.281	2.4301
360 minute summer	11	11	12	13.5	0.262	0.383	0.6199
360 minute summer	12_2	12_2	12	0.5	0.643	0.005	0.0236
360 minute summer	12_1	12_1	12	1.9	0.367	0.094	0.4067
360 minute summer	12	12	12_OUT	17.1	0.629	0.484	0.3780
360 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% 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 (m ³)	Flood (m ³)	Status
480 minute summer	10	472	77.758	0.886	8.5	3.3064	0.0000	FLOOD RISK
480 minute summer	11	472	77.758	0.922	11.0	1.3621	0.0000	SURCHARGED
480 minute summer	12_2	248	79.761	0.011	0.4	0.0127	0.0000	OK
480 minute summer	12_1	472	77.758	0.108	1.5	0.1627	0.0000	OK
480 minute summer	12	472	77.758	0.931	14.4	1.1546	0.0000	SURCHARGED
480 minute summer	12_OUT	472	77.758	0.937	13.2	73.1741	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
480 minute summer	10	10	11	7.9	0.187	0.223	2.4301
480 minute summer	11	11	12	11.3	0.243	0.319	0.6199
480 minute summer	12_2	12_2	12	0.4	0.607	0.004	0.0204
480 minute summer	12_1	12_1	12	1.5	0.342	0.076	0.5240
480 minute summer	12	12	12_OUT	13.2	0.598	0.374	0.3780
480 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% CC 600 minute summer. 840 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 (m ³)	Flood (m ³)	Status
600 minute summer	10	540	77.771	0.899	7.0	3.3541	0.0000	FLOOD RISK
600 minute summer	11	540	77.771	0.935	9.1	1.3810	0.0000	SURCHARGED
600 minute summer	12_2	315	79.759	0.009	0.3	0.0112	0.0000	OK
600 minute summer	12_1	540	77.771	0.121	1.3	0.1819	0.0000	OK
600 minute summer	12	540	77.771	0.944	11.1	1.1705	0.0000	SURCHARGED
600 minute summer	12_OUT	540	77.771	0.950	12.0	74.1727	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
600 minute summer	10	10	11	6.5	0.181	0.185	2.4301
600 minute summer	11	11	12	8.5	0.225	0.241	0.6199
600 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
600 minute summer	12_1	12_1	12	1.3	0.327	0.065	0.5884
600 minute summer	12	12	12_OUT	12.0	0.604	0.340	0.3780
600 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% CC 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 (m ³)	Flood (m ³)	Status
720 minute summer	10	600	77.770	0.898	6.3	3.3495	0.0000	FLOOD RISK
720 minute summer	11	600	77.770	0.934	8.2	1.3791	0.0000	SURCHARGED
720 minute summer	12_2	375	79.759	0.009	0.3	0.0112	0.0000	OK
720 minute summer	12_1	600	77.770	0.120	1.1	0.1801	0.0000	OK
720 minute summer	12	600	77.770	0.943	10.7	1.1690	0.0000	SURCHARGED
720 minute summer	12_OUT	600	77.770	0.949	9.9	74.0755	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
720 minute summer	10	10	11	5.9	0.174	0.166	2.4301
720 minute summer	11	11	12	8.4	0.215	0.238	0.6199
720 minute summer	12_2	12_2	12	0.3	0.560	0.003	0.0166
720 minute summer	12_1	12_1	12	1.1	0.312	0.055	0.5822
720 minute summer	12	12	12_OUT	9.9	0.590	0.280	0.3780
720 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% CC 960 minute summer. 1200 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 (m ³)	Flood (m ³)	Status
960 minute summer	10	735	77.772	0.900	5.3	3.3577	0.0000	FLOOD RISK
960 minute summer	11	735	77.772	0.936	6.9	1.3824	0.0000	SURCHARGED
960 minute summer	12_2	465	79.758	0.008	0.2	0.0093	0.0000	OK
960 minute summer	12_1	735	77.772	0.122	0.9	0.1834	0.0000	OK
960 minute summer	12	735	77.772	0.945	8.1	1.1717	0.0000	SURCHARGED
960 minute summer	12_OUT	735	77.772	0.951	9.1	74.2474	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
960 minute summer	10	10	11	5.0	0.159	0.142	2.4301
960 minute summer	11	11	12	6.3	0.203	0.178	0.6199
960 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
960 minute summer	12_1	12_1	12	0.9	0.293	0.045	0.5932
960 minute summer	12	12	12_OUT	9.1	0.550	0.256	0.3780
960 minute summer	12_OUT	Infiltration		1.2			

**Results for 100 year +20% CC 1440 minute summer. 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 (m ³)	Flood (m ³)	Status
1440 minute summer	10	1020	77.760	0.888	3.9	3.3138	0.0000	FLOOD RISK
1440 minute summer	11	1020	77.760	0.924	5.1	1.3650	0.0000	SURCHARGED
1440 minute summer	12_2	750	79.758	0.008	0.2	0.0093	0.0000	OK
1440 minute summer	12_1	1020	77.760	0.110	0.7	0.1657	0.0000	OK
1440 minute summer	12	1020	77.760	0.933	6.2	1.1571	0.0000	SURCHARGED
1440 minute summer	12_OUT	1020	77.760	0.939	6.4	73.3292	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)
1440 minute summer	10	10	11	3.7	0.154	0.105	2.4301
1440 minute summer	11	11	12	4.9	0.182	0.138	0.6199
1440 minute summer	12_2	12_2	12	0.2	0.498	0.002	0.0124
1440 minute summer	12_1	12_1	12	0.7	0.269	0.035	0.5341
1440 minute summer	12	12	12_OUT	6.4	0.424	0.182	0.3780
1440 minute summer	12_OUT	Infiltration		1.2			