

Design Settings

Rainfall Methodology FSR
Return Period (years) 5
Additional Flow (%) 0
FSR Region England and Wales
M5-60 (mm) 19.000
Ratio-R 0.350
CV 0.750
Time of Entry (mins) 5.00
Maximum Time of Concentration (mins) 30.00
Maximum Rainfall (mm/hr) 50.0
Minimum Velocity (m/s) 1.00
Connection Type Level Soffits
Minimum Backdrop Height (m) 9.999
Preferred Cover Depth (m) 1.200
Include Intermediate Ground ✓
Enforce best practice design rules x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	0.029	5.00	17.032	1200	507453.240	104484.843	1.559
2	0.030	5.00	16.667	1200	507417.319	104477.750	1.476
3	0.031	5.00	16.456	1200	507399.830	104490.204	1.425
4	0.010	5.00	15.974	600	507339.123	104491.209	1.424
5			15.864	1200	507340.391	104487.342	1.426
6	0.029	5.00	15.727	1200	507331.769	104489.462	1.561
7	0.002	5.00	15.773	600	507329.084	104481.541	0.973
8	0.017	5.00	15.818	1200	507336.121	104481.871	1.710
9	0.072	5.00	15.852	600	507340.862	104466.670	1.302
10			15.819	1200	507336.886	104465.548	1.886
11	0.054	5.00	15.922	600	507343.353	104458.983	1.372
12	0.022	5.00	15.965	600	507330.921	104466.806	1.565
13			15.864	1200	507334.188	104461.394	1.960
14	0.006	5.00	15.931	600	507330.135	104455.588	1.381
15	0.034	5.00	15.906	1200	507329.947	104458.834	2.031
16	0.021	5.00	15.645	600	507293.649	104462.611	1.595
17	0.058	5.00	15.509	600	507291.370	104452.382	1.559
18			15.434	1200	507291.126	104456.585	1.842
19	0.018	5.00	15.287	600	507282.875	104456.445	1.237
20			15.308	1200	507284.929	104459.179	1.779
21	0.056	5.00	15.107	600	507274.156	104475.338	1.467
22			14.985	1200	507271.953	104468.929	1.617
23			14.892	1350	507265.987	104470.486	1.584
24	0.008	5.00	14.912	600	507260.975	104464.438	1.307
25	0.056	5.00	14.859	1350	507258.340	104468.254	1.576
26			14.920	1350	507249.323	104462.026	1.671
27	0.036	5.00	15.293	600	507235.992	104466.629	1.748
28			15.189	1200	507232.996	104463.994	1.684
29	0.045	5.00	15.142	600	507246.274	104453.729	1.422
30			15.063	1350	507239.530	104453.046	1.856
31	0.017	5.00	15.214	1350	507235.200	104447.736	2.028

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	36.615	0.600	15.473	15.191	0.282	129.8	225	5.53	50.0
1.001	2	3	21.470	0.600	15.191	15.031	0.160	134.2	225	5.85	50.0
1.002	3	5	59.508	0.600	15.031	14.438	0.593	100.4	225	6.61	50.0
2.000	4	5	4.070	0.600	14.550	14.511	0.039	104.3	150	5.07	50.0
1.003	5	8	6.940	0.600	14.438	14.108	0.330	21.0	225	6.65	50.0
3.000	6	8	8.750	0.600	14.166	14.108	0.058	150.9	225	5.14	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)
1.000	1.146	45.6	3.9	1.334	1.251	0.029	0.0
1.001	1.127	44.8	8.0	1.251	1.200	0.059	0.0
1.002	1.305	51.9	12.2	1.200	1.201	0.090	0.0
2.000	0.983	17.4	1.4	1.274	1.203	0.010	0.0
1.003	2.866	113.9	13.6	1.201	1.485	0.100	0.0
3.000	1.062	42.2	3.9	1.336	1.485	0.029	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
4.000	7	8	7.045	0.600	14.800	14.183	0.617	11.4	150	5.04	50.0
1.004	8	10	16.341	0.600	14.108	14.008	0.100	163.4	225	6.92	50.0
5.000	9	10	4.131	0.600	14.550	14.083	0.467	8.8	150	5.02	50.0
1.005	10	13	4.953	0.600	13.933	13.904	0.029	170.8	300	6.99	50.0
6.000	11	13	9.477	0.600	14.550	14.054	0.496	19.1	150	5.07	50.0
7.000	12	13	6.322	0.600	14.400	14.054	0.346	18.3	150	5.04	50.0
1.006	13	15	4.954	0.600	13.904	13.875	0.029	170.8	300	7.06	50.0
8.000	14	15	3.251	0.600	14.550	14.025	0.525	6.2	150	5.01	50.0
1.007	15	18	38.886	0.600	13.875	13.667	0.208	187.0	300	7.62	50.0
9.000	16	18	6.533	0.600	14.050	13.817	0.233	28.0	150	5.06	50.0
10.000	17	18	4.210	0.600	13.950	13.817	0.133	31.7	150	5.04	50.0
1.008	18	20	6.718	0.600	13.592	13.529	0.063	106.6	375	7.68	50.0
11.000	19	20	3.420	0.600	14.050	13.754	0.296	11.6	150	5.02	50.0
1.009	20	22	16.231	0.600	13.529	13.368	0.161	100.8	375	7.83	50.0
12.000	21	22	6.777	0.600	13.640	13.593	0.047	144.2	150	5.14	50.0
1.010	22	23	6.166	0.600	13.368	13.308	0.060	102.8	375	7.89	50.0
1.011	23	25	7.966	0.600	13.308	13.283	0.025	318.6	375	8.02	50.0
13.000	24	25	4.637	0.600	13.605	13.508	0.097	47.8	150	5.05	50.0
1.012	25	26	10.959	0.600	13.283	13.249	0.034	322.3	375	8.21	50.0
1.013	26	30	13.287	0.600	13.249	13.208	0.041	324.1	375	8.43	50.0
14.000	27	28	3.990	0.600	13.545	13.505	0.040	99.7	150	5.07	50.0
14.001	28	30	12.750	0.600	13.505	13.432	0.073	174.7	150	5.35	50.0
15.000	29	30	6.778	0.600	13.720	13.432	0.288	23.5	150	5.05	50.0
1.014	30	31	6.852	0.600	13.207	13.186	0.021	326.3	225	8.59	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)
4.000	2.998	53.0	0.3	0.823	1.485	0.002	0.0
1.004	1.020	40.6	20.1	1.485	1.586	0.148	0.0
5.000	3.408	60.2	9.8	1.152	1.586	0.072	0.0
1.005	1.200	84.8	29.8	1.586	1.660	0.220	0.0
6.000	2.315	40.9	7.3	1.222	1.660	0.054	0.0
7.000	2.367	41.8	3.0	1.415	1.660	0.022	0.0
1.006	1.200	84.8	40.1	1.660	1.731	0.296	0.0
8.000	4.075	72.0	0.8	1.231	1.731	0.006	0.0
1.007	1.146	81.0	45.5	1.731	1.467	0.336	0.0
9.000	1.908	33.7	2.8	1.445	1.467	0.021	0.0
10.000	1.795	31.7	7.9	1.409	1.467	0.058	0.0
1.008	1.754	193.7	56.2	1.467	1.404	0.415	0.0
11.000	2.980	52.7	2.4	1.087	1.404	0.018	0.0
1.009	1.804	199.3	58.7	1.404	1.242	0.433	0.0
12.000	0.835	14.7	7.6	1.317	1.242	0.056	0.0
1.010	1.787	197.4	66.3	1.242	1.209	0.489	0.0
1.011	1.009	111.5	66.3	1.209	1.201	0.489	0.0
13.000	1.459	25.8	1.1	1.157	1.201	0.008	0.0
1.012	1.004	110.8	74.9	1.201	1.296	0.553	0.0
1.013	1.001	110.5	74.9	1.296	1.480	0.553	0.0
14.000	1.006	17.8	4.9	1.598	1.534	0.036	0.0
14.001	0.757	13.4	4.9	1.534	1.481	0.036	0.0
15.000	2.084	36.8	6.1	1.272	1.481	0.045	0.0
1.014	0.718	85.7	85.9	1.631	1.803	0.634	0.0

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	36.615	129.8	225	PH1	17.032	15.473	1.334	16.667	15.191	1.251
1.001	21.470	134.2	225	PH1	16.667	15.191	1.251	16.456	15.031	1.200
1.002	59.508	100.4	225	PH1	16.456	15.031	1.200	15.864	14.438	1.201
2.000	4.070	104.3	150	PH1	15.974	14.550	1.274	15.864	14.511	1.203
1.003	6.940	21.0	225	PH1	15.864	14.438	1.201	15.818	14.108	1.485
3.000	8.750	150.9	225	PH1	15.727	14.166	1.336	15.818	14.108	1.485

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	1200	Manhole	Adoptable	2	1200	Manhole	Adoptable
1.001	2	1200	Manhole	Adoptable	3	1200	Manhole	Adoptable
1.002	3	1200	Manhole	Adoptable	5	1200	Manhole	Adoptable
2.000	4	600	Manhole	Adoptable	5	1200	Manhole	Adoptable
1.003	5	1200	Manhole	Adoptable	8	1200	Manhole	Adoptable
3.000	6	1200	Manhole	Adoptable	8	1200	Manhole	Adoptable

Pipeline Schedule

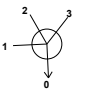
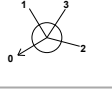
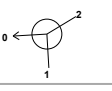
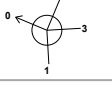
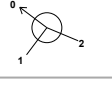
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
4.000	7.045	11.4	150	PH1	15.773	14.800	0.823	15.818	14.183	1.485
1.004	16.341	163.4	225	PH1	15.818	14.108	1.485	15.819	14.008	1.586
5.000	4.131	8.8	150	PH1	15.852	14.550	1.152	15.819	14.083	1.586
1.005	4.953	170.8	300	PH1	15.819	13.933	1.586	15.864	13.904	1.660
6.000	9.477	19.1	150	PH1	15.922	14.550	1.222	15.864	14.054	1.660
7.000	6.322	18.3	150	PH1	15.965	14.400	1.415	15.864	14.054	1.660
1.006	4.954	170.8	300	PH1	15.864	13.904	1.660	15.906	13.875	1.731
8.000	3.251	6.2	150	PH1	15.931	14.550	1.231	15.906	14.025	1.731
1.007	38.886	187.0	300	PH1	15.906	13.875	1.731	15.434	13.667	1.467
9.000	6.533	28.0	150	PH1	15.645	14.050	1.445	15.434	13.817	1.467
10.000	4.210	31.7	150	PH1	15.509	13.950	1.409	15.434	13.817	1.467
1.008	6.718	106.6	375	PH1	15.434	13.592	1.467	15.308	13.529	1.404
11.000	3.420	11.6	150	PH1	15.287	14.050	1.087	15.308	13.754	1.404
1.009	16.231	100.8	375	PH1	15.308	13.529	1.404	14.985	13.368	1.242
12.000	6.777	144.2	150	PH1	15.107	13.640	1.317	14.985	13.593	1.242
1.010	6.166	102.8	375	PH1	14.985	13.368	1.242	14.892	13.308	1.209
1.011	7.966	318.6	375	PH1	14.892	13.308	1.209	14.859	13.283	1.201
13.000	4.637	47.8	150	PH1	14.912	13.605	1.157	14.859	13.508	1.201
1.012	10.959	322.3	375	PH1	14.859	13.283	1.201	14.920	13.249	1.296
1.013	13.287	324.1	375	PH1	14.920	13.249	1.296	15.063	13.208	1.480
14.000	3.990	99.7	150	PH1	15.293	13.545	1.598	15.189	13.505	1.534
14.001	12.750	174.7	150	PH1	15.189	13.505	1.534	15.063	13.432	1.481
15.000	6.778	23.5	150	PH1	15.142	13.720	1.272	15.063	13.432	1.481
1.014	6.852	326.3	225	Triple	15.063	13.207	1.631	15.214	13.186	1.803

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
4.000	7	600	Manhole	Adoptable	8	1200	Manhole	Adoptable
1.004	8	1200	Manhole	Adoptable	10	1200	Manhole	Adoptable
5.000	9	600	Manhole	Adoptable	10	1200	Manhole	Adoptable
1.005	10	1200	Manhole	Adoptable	13	1200	Manhole	Adoptable
6.000	11	600	Manhole	Adoptable	13	1200	Manhole	Adoptable
7.000	12	600	Manhole	Adoptable	13	1200	Manhole	Adoptable
1.006	13	1200	Manhole	Adoptable	15	1200	Manhole	Adoptable
8.000	14	600	Manhole	Adoptable	15	1200	Manhole	Adoptable
1.007	15	1200	Manhole	Adoptable	18	1200	Manhole	Adoptable
9.000	16	600	Manhole	Adoptable	18	1200	Manhole	Adoptable
10.000	17	600	Manhole	Adoptable	18	1200	Manhole	Adoptable
1.008	18	1200	Manhole	Adoptable	20	1200	Manhole	Adoptable
11.000	19	600	Manhole	Adoptable	20	1200	Manhole	Adoptable
1.009	20	1200	Manhole	Adoptable	22	1200	Manhole	Adoptable
12.000	21	600	Manhole	Adoptable	22	1200	Manhole	Adoptable
1.010	22	1200	Manhole	Adoptable	23	1350	Manhole	Adoptable
1.011	23	1350	Manhole	Adoptable	25	1350	Manhole	Adoptable
13.000	24	600	Manhole	Adoptable	25	1350	Manhole	Adoptable
1.012	25	1350	Manhole	Adoptable	26	1350	Manhole	Adoptable
1.013	26	1350	Manhole	Adoptable	30	1350	Manhole	Adoptable
14.000	27	600	Manhole	Adoptable	28	1200	Manhole	Adoptable
14.001	28	1200	Manhole	Adoptable	30	1350	Manhole	Adoptable
15.000	29	600	Manhole	Adoptable	30	1350	Manhole	Adoptable
1.014	30	1350	Manhole	Adoptable	31	1350	Junction	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
1	507453.240	104484.843	17.032	1.559	1200		0	1.000	15.473	225
2	507417.319	104477.750	16.667	1.476	1200		1	1.000	15.191	225
							0	1.001	15.191	225
3	507399.830	104490.204	16.456	1.425	1200		1	1.001	15.031	225
							0	1.002	15.031	225
4	507339.123	104491.209	15.974	1.424	600		0	2.000	14.550	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
5	507340.391	104487.342	15.864	1.426	1200		1 2.000 2 1.002 0 1.003	14.511 14.438 14.438	150 225 225
6	507331.769	104489.462	15.727	1.561	1200		0 3.000	14.166	225
7	507329.084	104481.541	15.773	0.973	600		0 4.000	14.800	150
8	507336.121	104481.871	15.818	1.710	1200		1 4.000 2 3.000 3 1.003 0 1.004	14.183 14.108 14.108 14.108	150 225 225 225
9	507340.862	104466.670	15.852	1.302	600		0 5.000	14.550	150
10	507336.886	104465.548	15.819	1.886	1200		1 5.000 2 1.004 0 1.005	14.083 14.008 13.933	150 225 300
11	507343.353	104458.983	15.922	1.372	600		0 6.000	14.550	150
12	507330.921	104466.806	15.965	1.565	600		0 7.000	14.400	150
13	507334.188	104461.394	15.864	1.960	1200		1 7.000 2 6.000 3 1.005 0 1.006	14.054 14.054 13.904 13.904	150 150 300 300
14	507330.135	104455.588	15.931	1.381	600		0 8.000	14.550	150
15	507329.947	104458.834	15.906	2.031	1200		1 8.000 2 1.006 0 1.007	14.025 13.875 13.875	150 300 300
16	507293.649	104462.611	15.645	1.595	600		0 9.000	14.050	150
17	507291.370	104452.382	15.509	1.559	600		0 10.000	13.950	150
18	507291.126	104456.585	15.434	1.842	1200		1 10.000 2 9.000 3 1.007 0 1.008	13.817 13.817 13.667 13.592	150 150 300 375
19	507282.875	104456.445	15.287	1.237	600		0 11.000	14.050	150
20	507284.929	104459.179	15.308	1.779	1200		1 11.000 2 1.008 0 1.009	13.754 13.529 13.529	150 375 375
21	507274.156	104475.338	15.107	1.467	600		0 12.000	13.640	150
22	507271.953	104468.929	14.985	1.617	1200		1 12.000 2 1.009 0 1.010	13.593 13.368 13.368	150 375 375

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
23	507265.987	104470.486	14.892	1.584	1350		1	1.010	13.308	375
							0	1.011	13.308	375
24	507260.975	104464.438	14.912	1.307	600					
							0	13.000	13.605	150
25	507258.340	104468.254	14.859	1.576	1350		1	13.000	13.508	150
							2	1.011	13.283	375
							0	1.012	13.283	375
26	507249.323	104462.026	14.920	1.671	1350		1	1.012	13.249	375
							0	1.013	13.249	375
27	507235.992	104466.629	15.293	1.748	600					
							0	14.000	13.545	150
28	507232.996	104463.994	15.189	1.684	1200		1	14.000	13.505	150
							0	14.001	13.505	150
29	507246.274	104453.729	15.142	1.422	600					
							0	15.000	13.720	150
30	507239.530	104453.046	15.063	1.856	1350		1	15.000	13.432	150
							2	14.001	13.432	150
							3	1.013	13.208	375
							0	1.014	13.207	225
31	507235.200	104447.736	15.214	2.028	1350		1	1.014	13.186	225

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	19.000	Drain Down Time (mins)	240
Ratio-R	0.350	Additional Storage (m³/ha)	20.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15 | 30

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	10	0	0
100	40	0	0

Node 31 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.16272	Porosity	0.95
Side Inf Coefficient (m/hr)	0.16272	Invert Level (m)	12.786
Safety Factor	6.5	Time to half empty (mins)	561

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	484.0	484.0	0.400	484.0	527.0	0.800	484.0	527.0	0.801	0.0	527.0

Results for 10 year +10% CC Critical Storm Duration. Lowest mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	15.535	0.062	7.9	0.0935	0.0000	OK
15 minute winter	2	11	15.285	0.094	15.9	0.1452	0.0000	OK
15 minute winter	3	11	15.145	0.114	23.7	0.1789	0.0000	OK
15 minute winter	4	10	14.593	0.043	2.7	0.0181	0.0000	OK
15 minute summer	5	11	14.513	0.075	25.3	0.0843	0.0000	OK
15 minute winter	6	11	14.316	0.150	7.9	0.2254	0.0000	OK
15 minute winter	7	11	14.810	0.010	0.5	0.0034	0.0000	OK
15 minute winter	8	11	14.315	0.207	38.4	0.2756	0.0000	OK
15 minute summer	9	9	14.613	0.063	18.7	0.0875	0.0000	OK
15 minute winter	10	11	14.226	0.293	55.6	0.3310	0.0000	OK
15 minute winter	11	10	14.612	0.062	14.7	0.0664	0.0000	OK
15 minute winter	12	10	14.438	0.038	6.0	0.0216	0.0000	OK
15 minute winter	13	11	14.199	0.295	74.6	0.3341	0.0000	OK
15 minute winter	14	10	14.565	0.015	1.6	0.0057	0.0000	OK
15 minute winter	15	11	14.146	0.271	84.4	0.3967	0.0000	OK
15 minute winter	16	10	14.094	0.044	5.7	0.0242	0.0000	OK
15 minute winter	17	10	14.038	0.088	15.8	0.0904	0.0000	OK
15 minute winter	18	12	13.878	0.286	103.0	0.3233	0.0000	OK
15 minute winter	19	10	14.084	0.034	4.9	0.0193	0.0000	OK
15 minute winter	20	12	13.839	0.310	106.3	0.3501	0.0000	OK
15 minute winter	21	11	13.837	0.197	15.3	0.2064	0.0000	SURCHARGED
15 minute winter	22	12	13.788	0.420	117.5	0.4750	0.0000	SURCHARGED
15 minute winter	23	12	13.737	0.429	117.8	0.6143	0.0000	SURCHARGED
15 minute winter	24	12	13.680	0.075	2.2	0.0304	0.0000	OK
15 minute winter	25	12	13.680	0.397	131.8	0.8512	0.0000	SURCHARGED
15 minute winter	26	12	13.597	0.348	132.1	0.4977	0.0000	OK
15 minute winter	27	10	13.641	0.096	9.8	0.0669	0.0000	OK
15 minute winter	28	10	13.604	0.099	9.7	0.1120	0.0000	OK
15 minute winter	29	10	13.785	0.065	12.3	0.0599	0.0000	OK
15 minute winter	30	12	13.465	0.258	150.5	0.3685	0.0000	SURCHARGED
30 minute winter	31	38	13.007	-0.179	132.0	101.3965	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	1	1.000	2	7.7	0.628	0.169	0.4522
15 minute winter	2	1.001	3	15.6	0.867	0.348	0.3868
15 minute winter	3	1.002	5	23.7	1.505	0.457	0.9416
15 minute winter	4	2.000	5	2.7	0.681	0.154	0.0160
15 minute summer	5	1.003	8	25.3	1.059	0.222	0.1646
15 minute winter	6	3.000	8	7.1	0.415	0.169	0.2904
15 minute winter	7	4.000	8	0.5	0.669	0.009	0.0598
15 minute winter	8	1.004	10	37.6	1.068	0.927	0.6343
15 minute summer	9	5.000	10	18.7	2.549	0.311	0.0453
15 minute winter	10	1.005	13	55.1	0.786	0.650	0.3471
15 minute winter	11	6.000	13	14.6	1.886	0.358	0.1140
15 minute winter	12	7.000	13	6.0	1.365	0.143	0.0659
15 minute winter	13	1.006	15	74.2	1.085	0.875	0.3396
15 minute winter	14	8.000	15	1.6	1.357	0.022	0.0262
15 minute winter	15	1.007	18	82.5	1.335	1.019	2.3996
15 minute winter	16	9.000	18	5.7	1.360	0.168	0.0331
15 minute winter	17	10.000	18	15.7	1.612	0.495	0.0410
15 minute winter	18	1.008	20	101.7	1.329	0.525	0.6297
15 minute winter	19	11.000	20	4.9	1.757	0.093	0.0213
15 minute winter	20	1.009	22	105.2	1.101	0.528	1.6848
15 minute winter	21	12.000	22	14.5	0.918	0.983	0.1193
15 minute winter	22	1.010	23	117.8	1.068	0.597	0.6801
15 minute winter	23	1.011	25	118.0	1.070	1.058	0.8786
15 minute winter	24	13.000	25	2.0	0.782	0.079	0.0613
15 minute winter	25	1.012	26	132.1	1.199	1.192	1.1890
15 minute winter	26	1.013	30	132.2	1.364	1.196	1.2694
15 minute winter	27	14.000	28	9.7	0.800	0.546	0.0484
15 minute winter	28	14.001	30	9.5	0.814	0.709	0.1487
15 minute winter	29	15.000	30	12.2	1.762	0.332	0.0470
15 minute winter	30	1.014	31	150.7	1.278	1.759	0.7703
30 minute winter	31	Infiltration		3.5			

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	13	15.718	0.245	16.4	0.3682	0.0000	SURCHARGED
15 minute winter	2	13	15.720	0.529	33.1	0.8127	0.0000	SURCHARGED
15 minute winter	3	13	15.690	0.659	50.6	1.0323	0.0000	SURCHARGED
15 minute winter	4	13	15.503	0.953	12.9	0.4032	0.0000	SURCHARGED
15 minute winter	5	13	15.501	1.063	44.0	1.2022	0.0000	SURCHARGED
15 minute winter	6	13	15.466	1.300	16.4	1.9532	0.0000	FLOOD RISK
15 minute winter	7	13	15.461	0.661	7.8	0.2143	0.0000	SURCHARGED
15 minute winter	8	13	15.461	1.353	56.6	1.8000	0.0000	SURCHARGED
15 minute winter	9	12	15.506	0.956	40.8	1.3274	0.0000	SURCHARGED
15 minute winter	10	12	15.289	1.356	74.3	1.5338	0.0000	SURCHARGED
15 minute winter	11	12	15.464	0.914	30.6	0.9777	0.0000	SURCHARGED
15 minute winter	12	12	15.263	0.863	12.5	0.4869	0.0000	SURCHARGED
15 minute winter	13	12	15.242	1.338	102.8	1.5130	0.0000	SURCHARGED
15 minute winter	14	12	15.146	0.596	4.5	0.2206	0.0000	SURCHARGED
15 minute winter	15	12	15.145	1.270	118.3	1.8621	0.0000	SURCHARGED
15 minute winter	16	12	14.648	0.598	11.9	0.3263	0.0000	SURCHARGED
15 minute winter	17	12	14.775	0.825	32.9	0.8477	0.0000	SURCHARGED
15 minute winter	18	12	14.623	1.031	151.8	1.1660	0.0000	SURCHARGED
15 minute winter	19	12	14.547	0.497	10.2	0.2854	0.0000	SURCHARGED
15 minute winter	20	12	14.535	1.006	159.2	1.1380	0.0000	SURCHARGED
15 minute winter	21	12	14.581	0.941	31.8	0.9841	0.0000	SURCHARGED
15 minute winter	22	12	14.376	1.008	184.6	1.1405	0.0000	SURCHARGED
15 minute winter	23	12	14.251	0.943	184.5	1.3497	0.0000	SURCHARGED
15 minute winter	24	12	14.113	0.508	4.5	0.2059	0.0000	SURCHARGED
15 minute winter	25	12	14.110	0.827	212.7	1.7719	0.0000	SURCHARGED
15 minute winter	26	12	13.888	0.639	212.8	0.9150	0.0000	SURCHARGED
15 minute winter	27	11	13.890	0.345	20.4	0.2400	0.0000	SURCHARGED
15 minute winter	28	11	13.812	0.307	19.0	0.3474	0.0000	SURCHARGED
15 minute winter	29	11	13.830	0.110	25.5	0.1004	0.0000	OK
15 minute winter	30	12	13.639	0.432	250.9	0.6186	0.0000	SURCHARGED
30 minute winter	31	39	13.267	0.081	234.8	221.1677	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	1	1.000	2	16.1	0.739	0.354	1.4562
15 minute winter	2	1.001	3	33.0	1.012	0.736	0.8539
15 minute winter	3	1.002	5	44.0	1.584	0.849	2.3667
15 minute winter	4	2.000	5	-7.6	0.761	-0.437	0.0717
15 minute winter	5	1.003	8	46.1	1.159	0.404	0.2760
15 minute winter	6	3.000	8	10.3	0.469	0.245	0.3480
15 minute winter	7	4.000	8	-6.7	0.666	-0.126	0.1240
15 minute winter	8	1.004	10	63.7	1.602	1.571	0.6499
15 minute winter	9	5.000	10	33.7	2.619	0.560	0.0727
15 minute winter	10	1.005	13	78.5	1.115	0.926	0.3488
15 minute winter	11	6.000	13	25.3	1.909	0.618	0.1668
15 minute winter	12	7.000	13	9.5	1.361	0.228	0.1113
15 minute winter	13	1.006	15	104.6	1.485	1.233	0.3489
15 minute winter	14	8.000	15	5.5	1.350	0.077	0.0572
15 minute winter	15	1.007	18	120.6	1.713	1.488	2.7383
15 minute winter	16	9.000	18	9.3	1.405	0.274	0.1150
15 minute winter	17	10.000	18	29.2	1.656	0.919	0.0741
15 minute winter	18	1.008	20	151.7	1.375	0.783	0.7410
15 minute winter	19	11.000	20	7.9	1.828	0.150	0.0602
15 minute winter	20	1.009	22	160.7	1.457	0.806	1.7902
15 minute winter	21	12.000	22	28.5	1.618	1.931	0.1193
15 minute winter	22	1.010	23	184.5	1.673	0.935	0.6801
15 minute winter	23	1.011	25	184.9	1.676	1.659	0.8786
15 minute winter	24	13.000	25	3.7	0.792	0.144	0.0816
15 minute winter	25	1.012	26	212.8	1.929	1.920	1.2087
15 minute winter	26	1.013	30	212.8	1.930	1.926	1.4655
15 minute winter	27	14.000	28	19.0	1.079	1.068	0.0702
15 minute winter	28	14.001	30	18.6	1.055	1.388	0.2245
15 minute winter	29	15.000	30	25.2	1.944	0.684	0.1064
15 minute winter	30	1.014	31	251.0	2.104	2.930	0.8093
30 minute winter	31	Infiltration		3.7			