

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	40	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.500
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S1	0.033	5.00	26.880	600	382731.546	397747.710	1.135
S2	0.017	5.00	26.400	600	382736.361	397729.897	1.130
S3	0.015	5.00	26.150	600	382737.670	397715.427	1.125
S4			26.150	600	382737.321	397710.599	1.195
S5			27.500	600	382702.420	397697.132	2.520
S6			24.570	600	382644.520	397706.052	1.205
S7	0.047	5.00	24.600	600	382648.136	397721.846	1.305
S8	0.116	5.00	24.600	600	382648.766	397724.368	1.315
S9	0.036	5.00	25.370	600	382728.710	397771.202	1.125
S10			25.210	600	382726.669	397782.373	1.125
S11			24.700	600	382718.503	397815.722	1.125
S12			24.600	600	382704.304	397813.771	1.185
S13	0.084	5.00	24.600	600	382690.002	397802.872	1.260
S14	0.052	5.00	24.600	600	382672.882	397781.186	1.375
S15	0.007	5.00	24.600	600	382670.474	397777.926	1.390
S16	0.036	5.00	24.600	600	382660.315	397761.083	1.615
OUTFALL			24.600	200	382657.240	397762.067	1.623
PP1	0.020	10.00	27.400	150	382713.640	397737.769	0.490
PP2	0.020	10.00	27.400	300	382696.448	397735.861	0.500
PP3	0.020	10.00	27.400	300	382679.144	397738.467	0.510
PP4	0.020	10.00	27.400	300	382663.869	397728.581	1.100
PP5			27.400		382663.239	397722.297	1.142
PP6	0.040	10.00	27.400	150	382685.018	397740.534	0.490
PP7			27.400	300	382673.523	397758.872	0.500
PP8	0.040	10.00	27.400	150	382678.484	397768.179	0.490

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	18.452	38.8	225	Circular	26.880	25.745	0.910	26.400	25.270	0.905
1.001	14.529	59.3	225	Circular	26.400	25.270	0.905	26.150	25.025	0.900
1.002	4.841	69.2	225	Circular	26.150	25.025	0.900	26.150	24.955	0.970
1.003	37.409	2493.9	225	Circular	26.150	24.995	0.930	27.500	24.980	2.295
1.004	58.583	38.0	225	Circular	27.500	24.980	2.295	24.570	23.440	0.905
1.005	16.203	231.5	300	Circular	24.570	23.365	0.905	24.600	23.295	1.005
1.006	2.599	259.9	300	Circular	24.600	23.295	1.005	24.600	23.285	1.015
1.007	38.489	256.6	300	Circular	24.600	23.285	1.015	24.600	23.135	1.165
3.000	11.356	71.0	225	Circular	25.370	24.245	0.900	25.210	24.085	0.900
3.001	34.334	67.3	225	Circular	25.210	24.085	0.900	24.700	23.575	0.900
3.002	14.332	168.6	225	Circular	24.700	23.575	0.900	24.600	23.490	0.885
3.003	17.982	240.0	300	Circular	24.600	23.415	0.885	24.600	23.340	0.960
3.004	27.629	240.0	300	Circular	24.600	23.340	0.960	24.600	23.225	1.075
3.005	4.053	270.2	300	Circular	24.600	23.225	1.075	24.600	23.210	1.090
3.006	19.670	262.3	300	Circular	24.600	23.210	1.090	24.600	23.135	1.165
1.008	3.229	400.0	450	Circular	24.600	22.985	1.165	24.600	22.977	1.173
2.000	17.298	1729.8	150	Circular	27.400	26.910	0.340	27.400	26.900	0.350
2.001	17.499	1749.9	150	Circular	27.400	26.900	0.350	27.400	26.890	0.360
2.002	18.195	909.8	150	Circular	27.400	26.890	0.360	27.400	26.870	0.380
2.003	6.316	150.0	150	Circular	27.400	26.300	0.950	27.400	26.258	0.992
2.004	14.620	5.2	150	Circular	27.400	26.258	0.992	24.600	23.435	1.015
4.000	21.643	2164.3	150	Circular	27.400	26.910	0.340	27.400	26.900	0.350
5.000	10.547	1054.7	150	Circular	27.400	26.910	0.340	27.400	26.900	0.350

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	600	Manhole	Adoptable	S2	600	Manhole	Adoptable
1.001	S2	600	Manhole	Adoptable	S3	600	Manhole	Adoptable
1.002	S3	600	Manhole	Adoptable	S4	600	Manhole	Adoptable
1.003	S4	600	Manhole	Adoptable	S5	600	Manhole	Adoptable
1.004	S5	600	Manhole	Adoptable	S6	600	Manhole	Adoptable
1.005	S6	600	Manhole	Adoptable	S7	600	Manhole	Adoptable
1.006	S7	600	Manhole	Adoptable	S8	600	Manhole	Adoptable
1.007	S8	600	Manhole	Adoptable	S16	600	Manhole	Adoptable
3.000	S9	600	Manhole	Adoptable	S10	600	Manhole	Adoptable
3.001	S10	600	Manhole	Adoptable	S11	600	Manhole	Adoptable
3.002	S11	600	Manhole	Adoptable	S12	600	Manhole	Adoptable
3.003	S12	600	Manhole	Adoptable	S13	600	Manhole	Adoptable
3.004	S13	600	Manhole	Adoptable	S14	600	Manhole	Adoptable
3.005	S14	600	Manhole	Adoptable	S15	600	Manhole	Adoptable
3.006	S15	600	Manhole	Adoptable	S16	600	Manhole	Adoptable
1.008	S16	600	Manhole	Adoptable	OUTFALL	200	Manhole	Adoptable
2.000	PP1	150	Manhole	Adoptable	PP2	300	Manhole	Adoptable
2.001	PP2	300	Manhole	Adoptable	PP3	300	Manhole	Adoptable
2.002	PP3	300	Manhole	Adoptable	PP4	300	Manhole	Adoptable
2.003	PP4	300	Manhole	Adoptable	PP5		Junction	
2.004	PP5		Junction		S8	600	Manhole	Adoptable
4.000	PP6	150	Manhole	Adoptable	PP7	300	Manhole	Adoptable
5.000	PP8	150	Manhole	Adoptable	PP7	300	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)
4.001	19.296	5.5	150	Circular	27.400	26.900	0.350	24.600	23.360	1.090

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
4.001	PP7	300	Manhole	Adoptable	S15	600	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S1	382731.546	397747.710	26.880	1.135	600		0	1.000	25.745	225
S2	382736.361	397729.897	26.400	1.130	600		1	1.000	25.270	225
S3	382737.670	397715.427	26.150	1.125	600		1	1.001	25.270	225
S4	382737.321	397710.599	26.150	1.195	600		1	1.002	25.025	225
S5	382702.420	397697.132	27.500	2.520	600		1	1.003	24.955	225
S6	382644.520	397706.052	24.570	1.205	600		1	1.003	24.995	225
S7	382648.136	397721.846	24.600	1.305	600		1	1.004	24.980	225
S8	382648.766	397724.368	24.600	1.315	600		1	1.004	24.980	225
S9	382728.710	397771.202	25.370	1.125	600		1	1.005	24.440	225
S10	382726.669	397782.373	25.210	1.125	600		1	1.005	23.440	225
							0	1.006	23.365	300
							0	1.006	23.295	300
							0	1.007	23.285	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S11	382718.503	397815.722	24.700	1.125	600		1	3.001	23.575	225
S12	382704.304	397813.771	24.600	1.185	600		1	3.002	23.575	225
							0	3.003	23.415	300
S13	382690.002	397802.872	24.600	1.260	600		1	3.003	23.340	300
S14	382672.882	397781.186	24.600	1.375	600		1	3.004	23.225	300
							0	3.005	23.225	300
S15	382670.474	397777.926	24.600	1.390	600		1	4.001	23.360	150
							2	3.005	23.210	300
S16	382660.315	397761.083	24.600	1.615	600		0	3.006	23.210	300
							1	3.006	23.135	300
OUTFALL	382657.240	397762.067	24.600	1.623	200		2	1.007	23.135	300
							0	1.008	22.985	450
OUTFALL	382657.240	397762.067	24.600	1.623	200		1	1.008	22.977	450
PP1	382713.640	397737.769	27.400	0.490	150		0	2.000	26.910	150
PP2	382696.448	397735.861	27.400	0.500	300		1	2.000	26.900	150
PP3	382679.144	397738.467	27.400	0.510	300		0	2.001	26.900	150
							1	2.001	26.890	150
PP4	382663.869	397728.581	27.400	1.100	300		1	2.002	26.870	150
PP5	382663.239	397722.297	27.400	1.142			0	2.003	26.300	150
							1	2.003	26.258	150
PP6	382685.018	397740.534	27.400	0.490	150		0	2.004	26.258	150
							0	4.000	26.910	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
PP7	382673.523	397758.872	27.400	0.500	300		1	5.000	26.900	150
							2	4.000	26.900	150
							0	4.001	26.900	150
PP8	382678.484	397768.179	27.400	0.490	150		0	5.000	26.910	150

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	17.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m³/ha)	0.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

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

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

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	25.778	0.033	3.9	0.0093	0.0000	OK
15 minute winter	S2	10	25.314	0.044	5.9	0.0125	0.0000	OK
15 minute winter	S3	11	25.117	0.092	7.6	0.0260	0.0000	OK
15 minute summer	S4	12	25.108	0.153	10.0	0.0434	0.0000	OK
15 minute winter	S5	12	25.024	0.044	6.9	0.0123	0.0000	OK
15 minute winter	S6	12	23.432	0.067	6.9	0.0189	0.0000	OK
15 minute winter	S7	12	23.427	0.132	11.4	0.0373	0.0000	OK
15 minute winter	S8	12	23.422	0.137	28.6	0.0388	0.0000	OK
15 minute winter	S9	10	24.286	0.041	4.3	0.0117	0.0000	OK
15 minute winter	S10	11	24.124	0.039	4.3	0.0110	0.0000	OK
15 minute winter	S11	11	23.625	0.050	4.1	0.0141	0.0000	OK
15 minute winter	S12	12	23.463	0.048	4.1	0.0136	0.0000	OK
15 minute winter	S13	11	23.427	0.087	13.5	0.0246	0.0000	OK
15 minute winter	S14	11	23.361	0.136	19.2	0.0385	0.0000	OK
15 minute winter	S15	11	23.344	0.134	26.0	0.0379	0.0000	OK
15 minute winter	S16	12	23.177	0.192	57.3	0.0545	0.0000	OK
15 minute winter	OUTFALL	12	23.142	0.165	57.4	0.0000	0.0000	OK
15 minute winter	PP1	15	26.998	0.088	1.6	0.0016	0.0000	OK
15 minute winter	PP2	15	26.996	0.096	3.1	0.0068	0.0000	OK
15 minute winter	PP3	15	26.984	0.094	4.6	0.0067	0.0000	OK
15 minute winter	PP4	15	26.368	0.068	6.1	0.0048	0.0000	OK
15 minute winter	PP5	15	26.287	0.029	6.1	0.0000	0.0000	OK
15 minute winter	PP6	12	26.988	0.078	3.2	0.0014	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	3.9	0.857	0.046	0.0838	
15 minute winter	S2	1.001	S3	5.8	0.827	0.086	0.1500	
15 minute winter	S3	1.002	S4	11.6	0.571	0.185	0.1023	
15 minute summer	S4	1.003	S5	6.9	0.658	0.682	0.4690	
15 minute winter	S5	1.004	S6	6.9	1.285	0.081	0.3134	
15 minute winter	S6	1.005	S7	7.0	0.369	0.096	0.3359	
15 minute winter	S7	1.006	S8	11.6	0.378	0.169	0.0795	
15 minute winter	S8	1.007	S16	28.3	0.939	0.410	1.1599	
15 minute winter	S9	3.000	S10	4.3	0.891	0.069	0.0542	
15 minute winter	S10	3.001	S11	4.1	0.774	0.065	0.1905	
15 minute winter	S11	3.002	S12	4.1	0.641	0.103	0.0916	
15 minute winter	S12	3.003	S13	4.0	0.354	0.057	0.2172	
15 minute winter	S13	3.004	S14	13.4	0.565	0.188	0.6626	
15 minute winter	S14	3.005	S15	19.1	0.623	0.283	0.1246	
15 minute winter	S15	3.006	S16	25.7	0.899	0.376	0.5653	
15 minute winter	S16	1.008	OUTFALL	57.4	0.980	0.357	0.1891	33.0
15 minute winter	PP1	2.000	PP2	1.5	0.139	0.372	0.1961	
15 minute winter	PP2	2.001	PP3	3.1	0.260	0.745	0.2057	
15 minute winter	PP3	2.002	PP4	4.6	0.495	0.794	0.1677	
15 minute winter	PP4	2.003	PP5	6.1	1.249	0.420	0.0317	
15 minute winter	PP5	2.004	S8	6.1	2.633	0.077	0.0338	
15 minute winter	PP6	4.000	PP7	3.2	0.562	0.878	0.1278	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP7	12	26.930	0.030	6.4	0.0021	0.0000	OK
15 minute winter	PP8	13	26.975	0.065	3.2	0.0012	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	PP7	4.001	S15	6.4	2.616	0.083	0.0473	
15 minute winter	PP8	5.000	PP7	3.2	0.675	0.601	0.0513	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	25.796	0.051	9.6	0.0145	0.0000	OK
15 minute winter	S2	10	25.340	0.070	14.5	0.0198	0.0000	OK
15 minute winter	S3	11	25.177	0.152	18.8	0.0431	0.0000	OK
15 minute winter	S4	11	25.173	0.218	18.3	0.0617	0.0000	OK
15 minute winter	S5	11	25.050	0.070	18.1	0.0197	0.0000	OK
15 minute winter	S6	12	23.562	0.197	17.7	0.0557	0.0000	OK
15 minute winter	S7	12	23.557	0.262	29.4	0.0740	0.0000	OK
15 minute winter	S8	12	23.550	0.265	71.7	0.0750	0.0000	OK
15 minute winter	S9	10	24.311	0.066	10.5	0.0187	0.0000	OK
15 minute winter	S10	10	24.146	0.061	10.4	0.0172	0.0000	OK
15 minute winter	S11	11	23.656	0.081	10.2	0.0229	0.0000	OK
15 minute winter	S12	11	23.503	0.088	10.2	0.0249	0.0000	OK
15 minute winter	S13	11	23.498	0.158	33.2	0.0447	0.0000	OK
15 minute winter	S14	11	23.471	0.246	46.8	0.0698	0.0000	OK
15 minute winter	S15	11	23.448	0.238	63.5	0.0673	0.0000	OK
15 minute winter	S16	11	23.305	0.320	143.0	0.0906	0.0000	OK
15 minute winter	OUTFALL	11	23.242	0.265	142.8	0.0000	0.0000	OK
15 minute winter	PP1	14	27.119	0.209	3.9	0.0038	0.0000	FLOOD RISK
15 minute winter	PP2	14	27.108	0.208	7.8	0.0148	0.0000	FLOOD RISK
15 minute winter	PP3	14	27.068	0.178	11.6	0.0126	0.0000	SURCHARGED
15 minute winter	PP4	14	26.420	0.120	15.5	0.0085	0.0000	OK
15 minute winter	PP5	15	26.304	0.046	16.1	0.0000	0.0000	OK
15 minute winter	PP6	13	27.038	0.128	7.9	0.0023	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	9.5	1.110	0.114	0.1593	
15 minute winter	S2	1.001	S3	14.4	0.878	0.212	0.2827	
15 minute winter	S3	1.002	S4	18.3	0.564	0.292	0.1646	
15 minute winter	S4	1.003	S5	18.1	0.808	1.797	0.8254	
15 minute winter	S5	1.004	S6	17.7	1.456	0.209	0.9470	
15 minute winter	S6	1.005	S7	19.9	0.371	0.274	0.9248	
15 minute winter	S7	1.006	S8	29.6	0.468	0.431	0.1703	
15 minute winter	S8	1.007	S16	71.4	1.198	1.034	2.2734	
15 minute winter	S9	3.000	S10	10.4	1.136	0.169	0.1043	
15 minute winter	S10	3.001	S11	10.2	0.975	0.161	0.3681	
15 minute winter	S11	3.002	S12	10.2	0.823	0.256	0.1783	
15 minute winter	S12	3.003	S13	10.4	0.425	0.145	0.4931	
15 minute winter	S13	3.004	S14	32.5	0.664	0.455	1.3754	
15 minute winter	S14	3.005	S15	46.5	0.767	0.691	0.2468	
15 minute winter	S15	3.006	S16	62.9	1.158	0.922	1.0671	
15 minute winter	S16	1.008	OUTFALL	142.8	1.310	0.889	0.3515	80.8
15 minute winter	PP1	2.000	PP2	3.9	0.219	0.936	0.3045	
15 minute winter	PP2	2.001	PP3	7.7	0.438	1.883	0.3081	
15 minute winter	PP3	2.002	PP4	11.6	0.702	2.009	0.2733	
15 minute winter	PP4	2.003	PP5	16.1	1.637	1.115	0.0616	
15 minute winter	PP5	2.004	S8	15.5	3.415	0.197	0.1374	
15 minute winter	PP6	4.000	PP7	7.9	0.748	2.155	0.2226	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP7	14	26.947	0.047	15.8	0.0033	0.0000	OK
15 minute winter	PP8	13	27.012	0.102	7.9	0.0018	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	PP7	4.001	S15	15.8	3.344	0.206	0.1461	
15 minute winter	PP8	5.000	PP7	7.9	0.914	1.483	0.0915	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	25.814	0.069	17.4	0.0196	0.0000	OK
15 minute winter	S2	11	25.372	0.102	26.2	0.0289	0.0000	OK
15 minute winter	S3	11	25.346	0.321	33.6	0.0910	0.0000	SURCHARGED
15 minute winter	S4	11	25.310	0.355	32.5	0.1004	0.0000	SURCHARGED
15 minute winter	S5	11	25.076	0.096	32.4	0.0270	0.0000	OK
15 minute winter	S6	12	24.098	0.733	32.1	0.2075	0.0000	SURCHARGED
15 minute winter	S7	12	24.074	0.779	53.2	0.2205	0.0000	SURCHARGED
15 minute winter	S8	12	24.053	0.768	128.0	0.2172	0.0000	SURCHARGED
15 minute winter	S9	10	24.337	0.092	18.9	0.0260	0.0000	OK
15 minute winter	S10	10	24.168	0.083	18.8	0.0234	0.0000	OK
15 minute winter	S11	12	23.863	0.288	18.5	0.0815	0.0000	SURCHARGED
15 minute winter	S12	12	23.838	0.423	20.7	0.1197	0.0000	SURCHARGED
15 minute winter	S13	12	23.829	0.489	54.9	0.1385	0.0000	SURCHARGED
15 minute winter	S14	12	23.747	0.522	79.3	0.1476	0.0000	SURCHARGED
15 minute winter	S15	12	23.697	0.487	107.8	0.1378	0.0000	SURCHARGED
15 minute winter	S16	12	23.447	0.462	251.5	0.1308	0.0000	SURCHARGED
15 minute winter	OUTFALL	12	23.330	0.353	251.8	0.0000	0.0000	OK
15 minute winter	PP1	13	27.400	0.490	7.1	0.0088	0.1207	FLOOD
15 minute winter	PP2	13	27.376	0.476	13.5	0.0338	0.0000	FLOOD RISK
15 minute winter	PP3	14	27.258	0.368	20.4	0.0261	0.0000	FLOOD RISK
15 minute winter	PP4	14	26.546	0.246	27.2	0.0175	0.0000	SURCHARGED
15 minute winter	PP5	14	26.319	0.061	27.2	0.0000	0.0000	OK
15 minute winter	PP6	13	27.177	0.267	14.2	0.0048	0.0000	FLOOD RISK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	17.3	1.310	0.207	0.2530	
15 minute winter	S2	1.001	S3	25.7	0.893	0.380	0.4159	
15 minute winter	S3	1.002	S4	32.5	0.818	0.520	0.1925	
15 minute winter	S4	1.003	S5	32.4	0.995	3.219	1.0438	
15 minute winter	S5	1.004	S6	32.1	1.421	0.379	1.6347	
15 minute winter	S6	1.005	S7	38.9	0.553	0.535	1.1410	
15 minute winter	S7	1.006	S8	55.8	0.793	0.814	0.1830	
15 minute winter	S8	1.007	S16	128.3	1.821	1.858	2.7104	
15 minute winter	S9	3.000	S10	18.8	1.321	0.304	0.1616	
15 minute winter	S10	3.001	S11	18.5	1.125	0.292	0.9065	
15 minute winter	S11	3.002	S12	20.7	0.888	0.518	0.5700	
15 minute winter	S12	3.003	S13	24.6	0.406	0.344	1.2663	
15 minute winter	S13	3.004	S14	54.4	0.773	0.762	1.9456	
15 minute winter	S14	3.005	S15	77.7	1.103	1.155	0.2854	
15 minute winter	S15	3.006	S16	108.5	1.541	1.589	1.3851	
15 minute winter	S16	1.008	OUTFALL	251.8	1.668	1.567	0.4712	146.1
15 minute winter	PP1	2.000	PP2	6.5	0.372	1.588	0.3045	
15 minute winter	PP2	2.001	PP3	13.3	0.755	3.243	0.3081	
15 minute winter	PP3	2.002	PP4	20.2	1.151	3.507	0.3073	
15 minute winter	PP4	2.003	PP5	27.2	1.914	1.882	0.0767	
15 minute winter	PP5	2.004	S8	27.2	3.739	0.345	0.1774	
15 minute winter	PP6	4.000	PP7	14.2	0.986	3.864	0.2664	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP7	13	26.963	0.063	28.4	0.0045	0.0000	OK
15 minute winter	PP8	13	27.087	0.177	14.2	0.0032	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	PP7	4.001	S15	28.4	3.649	0.369	0.2375	
15 minute winter	PP8	5.000	PP7	14.2	1.045	2.665	0.1298	