

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	5.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	1.000
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
PS8	0.010	5.00	132.034	100	440780.947	302954.049	0.484
PS16			131.928	100	440780.754	302955.435	0.564
PS22	0.010	5.00	131.950	330	440773.761	302954.451	0.657
PS23	0.005	5.00	131.932	100	440783.213	302937.708	2.332
PS24			130.434	100	440783.362	302936.494	1.034
PS26			130.189	330	440776.689	302934.581	0.859
PS27			129.863	330	440774.932	302934.299	0.600
PS28		5.00	129.594	100	440782.070	302923.925	0.500
PS29			129.437	100	440782.203	302922.993	0.600
PS30			129.116	460	440776.655	302922.133	0.557
PS40		5.00	129.210	180	440761.203	302928.500	0.400
PS39		5.00	129.150	180	440747.548	302926.520	0.400
PS38	0.025	5.00	129.179	330	440750.799	302927.521	0.600
PS31			128.974	460	440752.782	302913.154	0.720
PS35	0.016	5.00	128.600	100	440744.960	302910.433	0.399
PS36			128.600	100	440737.304	302907.516	0.400
PS37			128.700	1200	440734.743	302906.859	1.900
PS18			125.000	1200	440709.699	302899.046	1.100

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	PS8	PS16	1.399	0.600	131.550	131.364	0.186	7.5	100	5.00	50.0
1.001	PS16	PS22	7.062	0.600	131.364	131.293	0.071	99.5	100	5.00	50.0
1.002	PS22	PS26	20.085	0.600	131.293	129.330	1.963	10.2	100	5.00	50.0
2.000	PS23	PS24	1.223	0.600	129.600	129.400	0.200	6.1	100	5.00	50.0
2.001	PS24	PS26	6.942	0.600	129.400	129.330	0.070	99.2	100	5.00	50.0
1.003	PS26	PS27	1.779	0.600	129.330	129.263	0.067	26.6	100	5.00	50.0
1.004	PS27	PS30	12.287	0.600	129.263	128.559	0.704	17.5	100	5.00	50.0
3.000	PS28	PS29	1.000	0.600	129.094	128.837	0.257	3.9	100	5.00	50.0
3.001	PS29	PS30	5.614	0.600	128.837	128.559	0.278	20.2	100	5.00	50.0
1.005	PS30	PS31	25.506	0.600	128.559	128.304	0.255	100.0	100	5.00	50.0
4.000	PS40	PS38	10.450	0.600	128.810	128.579	0.231	45.2	100	5.00	50.0
5.000	PS39	PS38	3.402	0.600	128.750	128.579	0.171	19.9	100	5.00	50.0
4.001	PS38	PS31	14.503	0.600	128.579	128.304	0.275	52.7	100	5.00	50.0
1.006	PS31	PS35	12.346	0.600	128.254	128.201	0.053	232.9	150	5.00	1.0

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)
1.000	2.836	22.3	1.4	0.384	0.464	0.010	0.0	17	1.564
1.001	0.771	6.1	1.4	0.464	0.557	0.010	0.0	32	0.623
1.002	2.430	19.1	2.7	0.557	0.759	0.020	0.0	25	1.718
2.000	3.147	24.7	0.7	2.232	0.934	0.005	0.0	11	1.347
2.001	0.772	6.1	0.7	0.934	0.759	0.005	0.0	22	0.503
1.003	1.503	11.8	3.4	0.759	0.500	0.025	0.0	36	1.293
1.004	1.857	14.6	3.4	0.500	0.457	0.025	0.0	32	1.505
3.000	3.948	31.0	0.0	0.400	0.500	0.000	0.0	0	0.000
3.001	1.726	13.6	0.0	0.500	0.457	0.000	0.0	0	0.000
1.005	0.769	6.0	3.4	0.457	0.570	0.025	0.0	54	0.790
4.000	1.149	9.0	0.0	0.300	0.500	0.000	0.0	0	0.000
5.000	1.739	13.7	0.0	0.300	0.500	0.000	0.0	0	0.000
4.001	1.063	8.3	3.4	0.500	0.570	0.025	0.0	44	1.006
1.006	0.654	11.6	0.1	0.570	0.249	0.050	0.0	11	0.213

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)
1.007	PS35	PS36	4.132	0.600	128.201	128.200	0.001	4132.0	150	5.00	1.0
1.008	PS36	PS37	2.644	0.600	128.200	128.068	0.132	20.0	100	5.00	50.0
1.009	PS37	PS18	26.235	0.600	126.800	123.900	2.900	9.0	100	5.00	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)
1.007	0.148	2.6	0.2	0.249	0.250	0.066	0.0	27	0.083
1.008	1.734	13.6	8.9	0.300	0.532	0.066	0.0	59	1.848
1.009	2.585	20.3	8.9	1.800	1.000	0.066	0.0	46	2.505

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	1.399	7.5	100	Circular	132.034	131.550	0.384	131.928	131.364	0.464
1.001	7.062	99.5	100	Circular	131.928	131.364	0.464	131.950	131.293	0.557
1.002	20.085	10.2	100	Circular	131.950	131.293	0.557	130.189	129.330	0.759
2.000	1.223	6.1	100	Circular	131.932	129.600	2.232	130.434	129.400	0.934
2.001	6.942	99.2	100	Circular	130.434	129.400	0.934	130.189	129.330	0.759
1.003	1.779	26.6	100	Circular	130.189	129.330	0.759	129.863	129.263	0.500
1.004	12.287	17.5	100	Circular	129.863	129.263	0.500	129.116	128.559	0.457

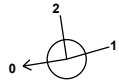
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	PS8	100	Manhole	Adoptable	PS16	100	Manhole	Adoptable
1.001	PS16	100	Manhole	Adoptable	PS22	330	Manhole	Adoptable
1.002	PS22	330	Manhole	Adoptable	PS26	330	Manhole	Adoptable
2.000	PS23	100	Manhole	Adoptable	PS24	100	Manhole	Adoptable
2.001	PS24	100	Manhole	Adoptable	PS26	330	Manhole	Adoptable
1.003	PS26	330	Manhole	Adoptable	PS27	330	Manhole	Adoptable
1.004	PS27	330	Manhole	Adoptable	PS30	460	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)
3.000	1.000	3.9	100	Circular	129.594	129.094	0.400	129.437	128.837	0.500
3.001	5.614	20.2	100	Circular	129.437	128.837	0.500	129.116	128.559	0.457
1.005	25.506	100.0	100	Circular	129.116	128.559	0.457	128.974	128.304	0.570
4.000	10.450	45.2	100	Circular	129.210	128.810	0.300	129.179	128.579	0.500
5.000	3.402	19.9	100	Circular	129.150	128.750	0.300	129.179	128.579	0.500
4.001	14.503	52.7	100	Circular	129.179	128.579	0.500	128.974	128.304	0.570
1.006	12.346	232.9	150	Circular	128.974	128.254	0.570	128.600	128.201	0.249
1.007	4.132	4132.0	150	Circular	128.600	128.201	0.249	128.600	128.200	0.250
1.008	2.644	20.0	100	Circular	128.600	128.200	0.300	128.700	128.068	0.532
1.009	26.235	9.0	100	Circular	128.700	126.800	1.800	125.000	123.900	1.000

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
3.000	PS28	100	Manhole	Adoptable	PS29	100	Manhole	Adoptable
3.001	PS29	100	Manhole	Adoptable	PS30	460	Manhole	Adoptable
1.005	PS30	460	Manhole	Adoptable	PS31	460	Manhole	Adoptable
4.000	PS40	180	Manhole	Adoptable	PS38	330	Manhole	Adoptable
5.000	PS39	180	Manhole	Adoptable	PS38	330	Manhole	Adoptable
4.001	PS38	330	Manhole	Adoptable	PS31	460	Manhole	Adoptable
1.006	PS31	460	Manhole	Adoptable	PS35	100	Manhole	Adoptable
1.007	PS35	100	Manhole	Adoptable	PS36	100	Manhole	Adoptable
1.008	PS36	100	Manhole	Adoptable	PS37	1200	Manhole	Adoptable
1.009	PS37	1200	Manhole	Adoptable	PS18	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
PS8	440780.947	302954.049	132.034	0.484	100				
						0	1.000	131.550	100
PS16	440780.754	302955.435	131.928	0.564	100		1	1.000	131.364
						0	1.001	131.364	100
PS22	440773.761	302954.451	131.950	0.657	330		1	1.001	131.293
						0	1.002	131.293	100
PS23	440783.213	302937.708	131.932	2.332	100		0	2.000	129.600
PS24	440783.362	302936.494	130.434	1.034	100		1	2.000	129.400
						0	2.001	129.400	100
PS26	440776.689	302934.581	130.189	0.859	330		1	2.001	129.330
						2	1.002	129.330	100
						0	1.003	129.330	100
PS27	440774.932	302934.299	129.863	0.600	330		1	1.003	129.263
						0	1.004	129.263	100
PS28	440782.070	302923.925	129.594	0.500	100		0	3.000	129.094

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
PS29	440782.203	302922.993	129.437	0.600	100		1 3.000	128.837	100
PS30	440776.655	302922.133	129.116	0.557	460		0 3.001	128.837	100
							1 3.001	128.559	100
							2 1.004	128.559	100
						0 1.005	128.559	100	
PS40	440761.203	302928.500	129.210	0.400	180				
							0 4.000	128.810	100
PS39	440747.548	302926.520	129.150	0.400	180				
							0 5.000	128.750	100
PS38	440750.799	302927.521	129.179	0.600	330		1 5.000	128.579	100
							2 4.000	128.579	100
							0 4.001	128.579	100
PS31	440752.782	302913.154	128.974	0.720	460		1 4.001	128.304	100
							2 1.005	128.304	100
							0 1.006	128.254	150
PS35	440744.960	302910.433	128.600	0.399	100		1 1.006	128.201	150
							0 1.007	128.201	150
PS36	440737.304	302907.516	128.600	0.400	100		1 1.007	128.200	150
							0 1.008	128.200	100

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
PS37	440734.743	302906.859	128.700	1.900	1200		1	1.008	128.068	100
						0	1.009	126.800	100	
PS18	440709.699	302899.046	125.000	1.100	1200		1	1.009	123.900	100

Simulation Settings

Rainfall Methodology	FSR	Summer CV	0.750	Drain Down Time (mins)	240
FSR Region	England and Wales	Winter CV	0.840	Additional Storage (m³/ha)	0.0
M5-60 (mm)	20.000	Analysis Speed	Normal	Check Discharge Rate(s)	x
Ratio-R	0.400	Skip Steady State	x	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 %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	40	0	0
30	0	0	0				

Node PS37 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	126.800	Product Number	CTL-SHE-0060-2000-1600-2000
Design Depth (m)	1.600	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

Node PS35 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	128.201
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	194

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	64.0	0.0	0.100	64.0	0.0	0.200	64.0	0.0	0.300	64.0	0.0	0.400	64.0	0.0	0.401	0.0	0.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PS8	10	131.569	0.019	1.8	0.0002	0.0000	OK
15 minute winter	PS16	10	131.403	0.039	1.8	0.0003	0.0000	OK
15 minute winter	PS22	10	131.322	0.029	3.6	0.0025	0.0000	OK
15 minute winter	PS23	11	129.613	0.013	0.9	0.0001	0.0000	OK
15 minute winter	PS24	11	129.426	0.026	0.9	0.0002	0.0000	OK
15 minute winter	PS26	11	129.381	0.051	4.4	0.0044	0.0000	OK
15 minute winter	PS27	11	129.301	0.038	4.4	0.0033	0.0000	OK
15 minute summer	PS28	1	129.094	0.000	0.0	0.0000	0.0000	OK
15 minute summer	PS29	1	128.837	0.000	0.0	0.0000	0.0000	OK
15 minute winter	PS30	11	128.623	0.064	4.4	0.0106	0.0000	OK
15 minute summer	PS40	1	128.810	0.000	0.0	0.0000	0.0000	OK
15 minute summer	PS39	1	128.750	0.000	0.0	0.0000	0.0000	OK
15 minute winter	PS38	10	128.633	0.054	4.6	0.0047	0.0000	OK
15 minute winter	PS31	11	128.350	0.096	8.7	0.0160	0.0000	OK
30 minute winter	PS35	24	128.271	0.070	9.0	4.2294	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	PS8	1.000	PS16	1.8	0.984	0.080	0.0027	
15 minute winter	PS16	1.001	PS22	1.8	0.745	0.291	0.0168	
15 minute winter	PS22	1.002	PS26	3.5	1.213	0.185	0.0591	
15 minute winter	PS23	2.000	PS24	0.9	0.887	0.036	0.0014	
15 minute winter	PS24	2.001	PS26	0.9	0.325	0.148	0.0195	
15 minute winter	PS26	1.003	PS27	4.4	1.312	0.373	0.0060	
15 minute winter	PS27	1.004	PS30	4.4	1.179	0.303	0.0490	
15 minute summer	PS28	3.000	PS29	0.0	0.000	0.000	0.0000	
15 minute summer	PS29	3.001	PS30	0.0	0.000	0.000	0.0144	
15 minute winter	PS30	1.005	PS31	4.3	0.827	0.709	0.1320	
15 minute summer	PS40	4.000	PS38	0.0	0.000	0.000	0.0216	
15 minute summer	PS39	5.000	PS38	0.0	0.000	0.000	0.0070	
15 minute winter	PS38	4.001	PS31	4.5	1.058	0.536	0.0614	
15 minute winter	PS31	1.006	PS35	8.7	1.164	0.752	0.1015	
30 minute winter	PS35	1.007	PS36	4.3	0.714	1.642	0.0253	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	PS36	48	128.262	0.062	4.1	0.0005	0.0000	OK
60 minute winter	PS37	48	128.260	1.460	4.2	1.6514	0.0000	SURCHARGED
15 minute summer	PS18	1	123.900	0.000	1.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	PS36	1.008	PS37	4.2	1.392	0.306	0.0171	
60 minute winter	PS37	Hydro-Brake®	PS18	1.9				8.4

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PS8	10	131.578	0.028	3.5	0.0002	0.0000	OK
15 minute winter	PS16	10	131.422	0.058	3.5	0.0005	0.0000	OK
15 minute winter	PS22	10	131.335	0.042	6.9	0.0036	0.0000	OK
15 minute winter	PS23	10	129.618	0.018	1.7	0.0001	0.0000	OK
15 minute winter	PS24	10	129.436	0.036	1.7	0.0003	0.0000	OK
15 minute winter	PS26	11	129.411	0.081	8.5	0.0070	0.0000	OK
15 minute winter	PS27	11	129.318	0.055	8.5	0.0047	0.0000	OK
15 minute summer	PS28	1	129.094	0.000	0.0	0.0000	0.0000	OK
15 minute summer	PS29	1	128.837	0.000	0.0	0.0000	0.0000	OK
15 minute winter	PS30	12	128.819	0.260	8.5	0.0432	0.0000	FLOOD RISK
15 minute summer	PS40	1	128.810	0.000	0.0	0.0000	0.0000	OK
15 minute summer	PS39	1	128.750	0.000	0.0	0.0000	0.0000	OK
15 minute winter	PS38	10	128.668	0.089	8.6	0.0076	0.0000	OK
15 minute winter	PS31	12	128.417	0.163	15.3	0.0270	0.0000	SURCHARGED
60 minute winter	PS35	58	128.368	0.166	11.6	10.1238	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	PS8	1.000	PS16	3.5	1.091	0.156	0.0045	
15 minute winter	PS16	1.001	PS22	3.4	0.887	0.567	0.0273	
15 minute winter	PS22	1.002	PS26	6.9	1.384	0.361	0.0985	
15 minute winter	PS23	2.000	PS24	1.7	1.021	0.068	0.0021	
15 minute winter	PS24	2.001	PS26	1.7	0.359	0.274	0.0321	
15 minute winter	PS26	1.003	PS27	8.5	1.495	0.717	0.0100	
15 minute winter	PS27	1.004	PS30	8.5	1.293	0.582	0.0752	
15 minute summer	PS28	3.000	PS29	0.0	0.000	0.000	0.0000	
15 minute summer	PS29	3.001	PS30	0.0	0.000	0.000	0.0220	
15 minute winter	PS30	1.005	PS31	7.3	0.939	1.217	0.1996	
15 minute summer	PS40	4.000	PS38	0.0	0.000	0.000	0.0369	
15 minute summer	PS39	5.000	PS38	0.0	0.000	0.000	0.0120	
15 minute winter	PS38	4.001	PS31	8.3	1.153	0.997	0.1092	
15 minute winter	PS31	1.006	PS35	14.9	1.249	1.293	0.1832	
60 minute winter	PS35	1.007	PS36	6.8	0.788	2.609	0.0727	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	PS36	58	128.367	0.167	6.8	0.0013	0.0000	FLOOD RISK
60 minute winter	PS37	58	128.362	1.562	6.7	1.7665	0.0000	SURCHARGED
15 minute summer	PS18	1	123.900	0.000	1.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	PS36	1.008	PS37	6.7	1.547	0.493	0.0207	
60 minute winter	PS37	Hydro-Brake®	PS18	2.0				16.3

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PS8	10	131.592	0.042	6.3	0.0003	0.0000	OK
15 minute winter	PS16	10	131.452	0.088	6.3	0.0007	0.0000	OK
15 minute winter	PS22	10	131.352	0.059	12.4	0.0051	0.0000	OK
15 minute winter	PS23	13	129.685	0.084	3.1	0.0007	0.0000	OK
15 minute winter	PS24	13	129.682	0.282	3.1	0.0023	0.0000	SURCHARGED
15 minute winter	PS26	13	129.670	0.340	14.0	0.0292	0.0000	SURCHARGED
15 minute winter	PS27	13	129.567	0.304	12.1	0.0261	0.0000	FLOOD RISK
15 minute winter	PS28	13	129.120	0.026	0.2	0.0002	0.0000	OK
15 minute winter	PS29	13	129.120	0.283	1.3	0.0023	0.0000	SURCHARGED
15 minute winter	PS30	13	129.116	0.557	11.0	0.0925	0.2920	FLOOD
15 minute winter	PS40	12	129.085	0.275	2.3	0.0069	0.0000	FLOOD RISK
15 minute winter	PS39	12	129.084	0.334	2.0	0.0084	0.0000	FLOOD RISK
15 minute winter	PS38	12	129.084	0.505	15.7	0.0434	0.0000	FLOOD RISK
120 minute winter	PS31	112	128.590	0.336	10.0	0.0558	0.0000	SURCHARGED
120 minute winter	PS35	114	128.589	0.388	12.9	23.5740	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	PS8	1.000	PS16	6.3	1.184	0.281	0.0073	
15 minute winter	PS16	1.001	PS22	6.1	1.002	1.013	0.0427	
15 minute winter	PS22	1.002	PS26	12.3	1.752	0.647	0.1266	
15 minute winter	PS23	2.000	PS24	3.1	1.156	0.125	0.0091	
15 minute winter	PS24	2.001	PS26	2.8	0.382	0.469	0.0543	
15 minute winter	PS26	1.003	PS27	12.1	1.552	1.028	0.0139	
15 minute winter	PS27	1.004	PS30	11.0	1.446	0.753	0.0961	
15 minute winter	PS28	3.000	PS29	0.2	0.069	0.008	0.0047	
15 minute winter	PS29	3.001	PS30	2.9	0.481	0.215	0.0439	
15 minute winter	PS30	1.005	PS31	8.6	1.103	1.429	0.1996	
15 minute winter	PS40	4.000	PS38	-2.3	0.336	-0.257	0.0818	
15 minute winter	PS39	5.000	PS38	-2.0	-0.254	-0.145	0.0266	
15 minute winter	PS38	4.001	PS31	11.1	1.416	1.327	0.1135	
120 minute winter	PS31	1.006	PS35	9.7	0.770	0.839	0.2173	
120 minute winter	PS35	1.007	PS36	5.0	0.732	1.913	0.0727	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.38%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	PS36	114	128.588	0.388	5.0	0.0031	0.0000	FLOOD RISK
120 minute winter	PS37	114	128.582	1.782	4.9	2.0159	0.0000	FLOOD RISK
15 minute summer	PS18	1	123.900	0.000	2.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	PS36	1.008	PS37	4.9	1.450	0.362	0.0207	
120 minute winter	PS37	Hydro-Brake®	PS18	2.1				36.9