



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	4.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SP1	0.032	4.00	162.912	1200	407406.557	341864.673	1.512
SP2	0.016	4.00	161.618	1200	407450.003	341864.371	1.518
S1	0.064	4.00	160.397	1200	407469.513	341873.909	1.547
S2			158.968	1200	407484.298	341883.369	1.518
S3			156.356	1500	407514.980	341888.399	1.806
S4			154.513	1500	407535.879	341901.266	1.513
S5			153.713	1500	407545.713	341902.237	1.513
S6			151.592	1500	407575.718	341900.341	1.542
S7			150.019	1500	407606.806	341897.390	1.769
POND			149.800	100	407623.969	341896.387	1.900
S8			149.795	3000	407635.218	341895.730	1.945
S9			149.000	1500	407645.468	341888.579	1.200
OUTFALL			148.500		407656.905	341888.065	1.125
S10			149.763	1500	407607.557	341910.252	1.363
DITCH	0.000		146.260		407725.702	341909.978	0.760
SP26	0.015	4.00	159.285	450	407482.830	341876.681	1.085
SP27	0.000		158.875	450	407493.743	341880.729	1.075
SP21	0.037	4.00	158.200	450	407498.942	341877.385	1.350
SP22	0.015	4.00	157.550	450	407502.846	341882.398	0.800
SP23	0.019	4.00	156.519	450	407515.576	341884.206	1.219
SP33	0.009	4.00	156.150	450	407520.526	341884.909	0.700
SP35	0.023	4.00	159.505	450	407477.336	341886.209	1.105
SP36	0.017	4.00	158.295	450	407492.549	341890.368	1.045
SP37	0.011	4.00	157.260	450	407504.798	341892.107	0.710
SP38	0.003	4.00	157.015	450	407507.088	341892.433	1.515
SP39	0.003	4.00	156.555	450	407512.311	341893.174	1.805
SP46	0.026	4.00	155.815	450	407519.007	341899.591	0.965
SP48	0.018	4.00	154.780	450	407530.382	341902.713	1.280
SP49	0.012	4.00	153.785	450	407544.543	341904.724	1.035
SP50	0.014	4.00	152.530	450	407560.148	341904.724	0.730
SP51	0.004	4.00	151.850	450	407572.226	341905.474	0.700
SP52	0.017	4.00	151.850	450	407575.727	341905.474	1.050
SP56	0.008	4.00	151.580	450	407579.478	341905.468	0.730
SP59	0.017	4.00	154.150	450	407539.194	341892.170	0.950
SP60	0.000		153.635	450	407548.599	341895.220	0.735
SP61	0.009	4.00	153.000	450	407554.288	341895.256	1.250



Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SP62	0.017	4.00	152.635	450	407561.715	341895.256	1.235
SP63	0.003	4.00	151.855	450	407575.055	341894.796	1.305
SP67	0.011	4.00	151.590	450	407577.379	341894.518	0.990
SP74	0.022	4.00	150.085	450	407604.918	341881.865	0.735
SP73	0.010	4.00	150.160	450	407597.937	341884.757	0.860
SP71	0.009	4.00	150.450	450	407598.513	341893.461	1.300
SP70	0.007	4.00	150.500	450	407585.602	341888.243	0.700
SP77	0.046	4.00	149.455	450	407607.044	341918.004	0.705
SP78	0.003	4.00	150.050	450	407604.776	341911.176	1.450
SP83	0.013	4.00	150.650	450	407594.450	341904.892	0.700
SP84	0.000		150.080	450	407603.878	341908.470	0.780

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	SP1	SP2	43.447	0.600	161.400	160.100	1.300	33.4	150	4.41	50.0
1.001	SP2	S1	21.717	0.600	160.100	158.850	1.250	17.4	150	4.56	50.0
1.002	S1	S2	17.552	0.600	158.850	157.600	1.250	14.0	150	4.67	50.0
1.003	S2	S3	31.092	0.600	157.450	154.550	2.900	10.7	300	4.78	50.0
1.004	S3	S4	24.542	0.600	154.550	153.000	1.550	15.8	300	4.88	50.0
1.005	S4	S5	9.882	0.600	153.000	152.200	0.800	12.4	300	4.92	50.0
1.006	S5	S6	30.065	0.600	152.200	150.050	2.150	14.0	300	5.04	50.0
1.007	S6	S7	31.228	0.600	150.050	148.325	1.725	18.1	300	5.18	50.0
1.008	S7	POND	17.192	0.600	148.250	148.175	0.075	229.2	375	5.42	50.0
1.009	POND	S8	11.268	0.600	147.900	147.850	0.050	225.4	225	5.63	50.0
1.010	S8	S9	12.498	0.600	147.850	147.800	0.050	250.0	225	5.89	50.0
1.011	S9	OUTFALL	11.449	0.600	147.800	147.375	0.425	26.9	225	5.96	50.0
10.003	S10	S7	12.884	0.600	148.400	148.325	0.075	171.8	300	4.30	50.0
1.012	OUTFALL	DITCH	72.203	0.400	147.375	145.500	1.875	38.5	400	14.55	40.8

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	1.747	30.9	4.3	1.362	1.368	0.032	0.0
1.001	2.428	42.9	6.5	1.368	1.397	0.048	0.0
1.002	2.702	47.8	15.2	1.397	1.218	0.112	0.0
1.003	4.827	341.2	15.2	1.218	1.506	0.112	0.0
1.004	3.970	280.6	39.3	1.506	1.213	0.290	0.0
1.005	4.497	317.8	39.3	1.213	1.213	0.290	0.0
1.006	4.225	298.7	39.3	1.213	1.242	0.290	0.0
1.007	3.712	262.4	56.9	1.242	1.394	0.420	0.0
1.008	1.192	131.7	71.8	1.394	1.250	0.530	0.0
1.009	0.867	34.5	71.8	1.675	1.720	0.530	0.0
1.010	0.822	32.7	71.8	1.720	0.975	0.530	0.0
1.011	2.530	100.6	71.8	0.975	0.900	0.530	0.0
10.003	1.196	84.6	8.4	1.063	1.394	0.062	0.0
1.012	0.140	78.5	58.6	0.725	0.360	0.530	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)
2.000	SP26	SP27	11.640	0.600	158.200	157.800	0.400	29.1	150	4.10	50.0
2.001	SP27	SP21	6.182	0.600	157.800	156.850	0.950	6.5	150	4.13	50.0
2.002	SP21	SP22	6.354	0.600	156.850	156.750	0.100	63.5	150	4.21	50.0
2.003	SP22	SP23	12.858	0.600	156.750	155.300	1.450	8.9	150	4.28	50.0
2.004	SP23	S3	4.235	0.600	155.300	154.700	0.600	7.1	150	4.29	50.0
3.000	SP33	SP23	5.000	0.600	155.450	155.300	0.150	33.3	150	4.05	50.0
4.000	SP35	SP36	15.771	0.600	158.400	157.250	1.150	13.7	150	4.10	50.0
4.001	SP36	SP37	12.372	0.600	157.250	156.550	0.700	17.7	150	4.18	50.0
4.002	SP37	SP38	2.313	0.600	156.550	155.500	1.050	2.2	150	4.19	50.0
4.003	SP38	SP39	5.275	0.600	155.500	154.750	0.750	7.0	150	4.21	50.0
4.004	SP39	S3	5.470	0.600	154.750	154.700	0.050	109.4	150	4.31	50.0
5.000	SP46	SP39	9.274	0.600	154.850	154.750	0.100	92.7	150	4.15	50.0
6.000	SP48	SP49	14.303	0.600	153.500	152.750	0.750	19.1	150	4.10	50.0
6.001	SP49	SP50	15.605	0.600	152.750	151.800	0.950	16.4	150	4.21	50.0
6.002	SP50	SP51	12.101	0.600	151.800	151.150	0.650	18.6	150	4.29	50.0
6.003	SP51	SP52	3.501	0.600	151.150	150.800	0.350	10.0	150	4.31	50.0
6.004	SP52	S6	5.133	0.600	150.800	150.200	0.600	8.6	150	4.34	50.0
7.000	SP56	SP52	3.751	0.600	150.850	150.800	0.050	75.0	150	4.05	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)
2.000	1.873	33.1	2.0	0.935	0.925	0.015	0.0
2.001	3.976	70.3	2.0	0.925	1.200	0.015	0.0
2.002	1.263	22.3	7.0	1.200	0.650	0.052	0.0
2.003	3.404	60.1	9.1	0.650	1.069	0.067	0.0
2.004	3.817	67.4	12.9	1.069	1.506	0.095	0.0
3.000	1.749	30.9	1.2	0.550	1.069	0.009	0.0
4.000	2.734	48.3	3.1	0.955	0.895	0.023	0.0
4.001	2.407	42.5	5.4	0.895	0.560	0.040	0.0
4.002	6.842	120.9	6.9	0.560	1.365	0.051	0.0
4.003	3.823	67.6	7.3	1.365	1.655	0.054	0.0
4.004	0.960	17.0	11.2	1.655	1.506	0.083	0.0
5.000	1.044	18.4	3.5	0.815	1.655	0.026	0.0
6.000	2.317	40.9	2.4	1.130	0.885	0.018	0.0
6.001	2.497	44.1	4.1	0.885	0.580	0.030	0.0
6.002	2.345	41.4	6.0	0.580	0.550	0.044	0.0
6.003	3.204	56.6	6.5	0.550	0.900	0.048	0.0
6.004	3.466	61.2	9.9	0.900	1.242	0.073	0.0
7.000	1.162	20.5	1.1	0.580	0.900	0.008	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)
8.000	SP59	SP60	9.887	0.600	153.200	152.900	0.300	33.0	150	4.09	50.0
8.001	SP60	SP61	5.689	0.600	152.900	151.750	1.150	4.9	150	4.11	50.0
8.002	SP61	SP62	7.427	0.600	151.750	151.400	0.350	21.2	150	4.17	50.0
8.003	SP62	SP63	13.348	0.600	151.400	150.550	0.850	15.7	150	4.26	50.0
8.004	SP63	S6	5.584	0.600	150.550	150.200	0.350	16.0	150	4.29	50.0
9.000	SP67	SP63	2.341	0.600	150.600	150.550	0.050	46.8	150	4.03	50.0
12.000	SP74	SP73	7.556	0.600	149.350	149.300	0.050	151.1	150	4.15	50.0
12.001	SP73	SP71	8.723	0.600	149.300	149.150	0.150	58.2	150	4.26	50.0
12.002	SP71	S7	9.177	0.600	149.150	148.475	0.675	13.6	150	4.32	50.0
13.000	SP70	SP71	13.926	0.600	149.800	149.150	0.650	21.4	150	4.11	50.0
11.000	SP77	SP78	7.195	0.600	148.750	148.600	0.150	48.0	150	4.08	50.0
10.002	SP78	S10	2.930	0.600	148.600	148.550	0.050	58.6	150	4.12	50.0
10.000	SP83	SP84	10.084	0.600	149.950	149.300	0.650	15.5	150	4.07	50.0
10.001	SP84	SP78	2.851	0.600	149.300	148.600	0.700	4.1	150	4.07	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)
8.000	1.759	31.1	2.3	0.800	0.585	0.017	0.0
8.001	4.561	80.6	2.3	0.585	1.100	0.017	0.0
8.002	2.196	38.8	3.5	1.100	1.085	0.026	0.0
8.003	2.554	45.1	5.8	1.085	1.155	0.043	0.0
8.004	2.534	44.8	7.7	1.155	1.242	0.057	0.0
9.000	1.474	26.0	1.5	0.840	1.155	0.011	0.0
12.000	0.815	14.4	3.0	0.585	0.710	0.022	0.0
12.001	1.321	23.3	4.3	0.710	1.150	0.032	0.0
12.002	2.746	48.5	6.5	1.150	1.394	0.048	0.0
13.000	2.185	38.6	0.9	0.550	1.150	0.007	0.0
11.000	1.456	25.7	6.2	0.555	1.300	0.046	0.0
10.002	1.316	23.3	8.4	1.300	1.063	0.062	0.0
10.000	2.570	45.4	1.8	0.550	0.630	0.013	0.0
10.001	5.028	88.9	1.8	0.630	1.300	0.013	0.0



Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	43.447	33.4	150	162.912	161.400	1.362	161.618	160.100	1.368
1.001	21.717	17.4	150	161.618	160.100	1.368	160.397	158.850	1.397
1.002	17.552	14.0	150	160.397	158.850	1.397	158.968	157.600	1.218
1.003	31.092	10.7	300	158.968	157.450	1.218	156.356	154.550	1.506
1.004	24.542	15.8	300	156.356	154.550	1.506	154.513	153.000	1.213
1.005	9.882	12.4	300	154.513	153.000	1.213	153.713	152.200	1.213
1.006	30.065	14.0	300	153.713	152.200	1.213	151.592	150.050	1.242
1.007	31.228	18.1	300	151.592	150.050	1.242	150.019	148.325	1.394
1.008	17.192	229.2	375	150.019	148.250	1.394	149.800	148.175	1.250
1.009	11.268	225.4	225	149.800	147.900	1.675	149.795	147.850	1.720
1.010	12.498	250.0	225	149.795	147.850	1.720	149.000	147.800	0.975
1.011	11.449	26.9	225	149.000	147.800	0.975	148.500	147.375	0.900
10.003	12.884	171.8	300	149.763	148.400	1.063	150.019	148.325	1.394
1.012	72.203	38.5	400	148.500	147.375	0.725	146.260	145.500	0.360
2.000	11.640	29.1	150	159.285	158.200	0.935	158.875	157.800	0.925
2.001	6.182	6.5	150	158.875	157.800	0.925	158.200	156.850	1.200
2.002	6.354	63.5	150	158.200	156.850	1.200	157.550	156.750	0.650
2.003	12.858	8.9	150	157.550	156.750	0.650	156.519	155.300	1.069
2.004	4.235	7.1	150	156.519	155.300	1.069	156.356	154.700	1.506
3.000	5.000	33.3	150	156.150	155.450	0.550	156.519	155.300	1.069
4.000	15.771	13.7	150	159.505	158.400	0.955	158.295	157.250	0.895

Link	US Node	Dia (mm)	DS Node	Dia (mm)
1.000	SP1	1200	SP2	1200
1.001	SP2	1200	S1	1200
1.002	S1	1200	S2	1200
1.003	S2	1200	S3	1500
1.004	S3	1500	S4	1500
1.005	S4	1500	S5	1500
1.006	S5	1500	S6	1500
1.007	S6	1500	S7	1500
1.008	S7	1500	POND	100
1.009	POND	100	S8	3000
1.010	S8	3000	S9	1500
1.011	S9	1500	OUTFALL	
10.003	S10	1500	S7	1500
1.012	OUTFALL		DITCH	
2.000	SP26	450	SP27	450
2.001	SP27	450	SP21	450
2.002	SP21	450	SP22	450
2.003	SP22	450	SP23	450
2.004	SP23	450	S3	1500
3.000	SP33	450	SP23	450
4.000	SP35	450	SP36	450



Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
4.001	12.372	17.7	150	158.295	157.250	0.895	157.260	156.550	0.560
4.002	2.313	2.2	150	157.260	156.550	0.560	157.015	155.500	1.365
4.003	5.275	7.0	150	157.015	155.500	1.365	156.555	154.750	1.655
4.004	5.470	109.4	150	156.555	154.750	1.655	156.356	154.700	1.506
5.000	9.274	92.7	150	155.815	154.850	0.815	156.555	154.750	1.655
6.000	14.303	19.1	150	154.780	153.500	1.130	153.785	152.750	0.885
6.001	15.605	16.4	150	153.785	152.750	0.885	152.530	151.800	0.580
6.002	12.101	18.6	150	152.530	151.800	0.580	151.850	151.150	0.550
6.003	3.501	10.0	150	151.850	151.150	0.550	151.850	150.800	0.900
6.004	5.133	8.6	150	151.850	150.800	0.900	151.592	150.200	1.242
7.000	3.751	75.0	150	151.580	150.850	0.580	151.850	150.800	0.900
8.000	9.887	33.0	150	154.150	153.200	0.800	153.635	152.900	0.585
8.001	5.689	4.9	150	153.635	152.900	0.585	153.000	151.750	1.100
8.002	7.427	21.2	150	153.000	151.750	1.100	152.635	151.400	1.085
8.003	13.348	15.7	150	152.635	151.400	1.085	151.855	150.550	1.155
8.004	5.584	16.0	150	151.855	150.550	1.155	151.592	150.200	1.242
9.000	2.341	46.8	150	151.590	150.600	0.840	151.855	150.550	1.155
12.000	7.556	151.1	150	150.085	149.350	0.585	150.160	149.300	0.710
12.001	8.723	58.2	150	150.160	149.300	0.710	150.450	149.150	1.150

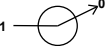
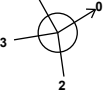
Link	US Node	Dia (mm)	DS Node	Dia (mm)
4.001	SP36	450	SP37	450
4.002	SP37	450	SP38	450
4.003	SP38	450	SP39	450
4.004	SP39	450	S3	1500
5.000	SP46	450	SP39	450
6.000	SP48	450	SP49	450
6.001	SP49	450	SP50	450
6.002	SP50	450	SP51	450
6.003	SP51	450	SP52	450
6.004	SP52	450	S6	1500
7.000	SP56	450	SP52	450
8.000	SP59	450	SP60	450
8.001	SP60	450	SP61	450
8.002	SP61	450	SP62	450
8.003	SP62	450	SP63	450
8.004	SP63	450	S6	1500
9.000	SP67	450	SP63	450
12.000	SP74	450	SP73	450
12.001	SP73	450	SP71	450

Pipeline Schedule

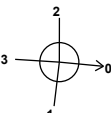
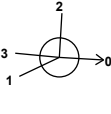
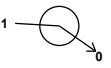
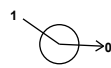
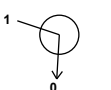
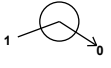
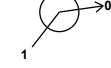
Link	Length (m)	Slope (1:X)	Dia (mm)	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
12.002	9.177	13.6	150	150.450	149.150	1.150	150.019	148.475	1.394
13.000	13.926	21.4	150	150.500	149.800	0.550	150.450	149.150	1.150
11.000	7.195	48.0	150	149.455	148.750	0.555	150.050	148.600	1.300
10.002	2.930	58.6	150	150.050	148.600	1.300	149.763	148.550	1.063
10.000	10.084	15.5	150	150.650	149.950	0.550	150.080	149.300	0.630
10.001	2.851	4.1	150	150.080	149.300	0.630	150.050	148.600	1.300

Link	US Node	Dia (mm)	DS Node	Dia (mm)
12.002	SP71	450	S7	1500
13.000	SP70	450	SP71	450
11.000	SP77	450	SP78	450
10.002	SP78	450	S10	1500
10.000	SP83	450	SP84	450
10.001	SP84	450	SP78	450

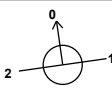
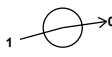
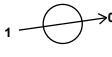
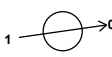
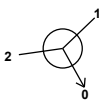
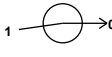
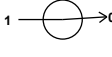
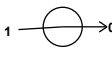
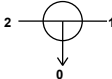
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SP1	407406.557	341864.673	162.912	1.512	1200				
						0	1.000	161.400	150
SP2	407450.003	341864.371	161.618	1.518	1200				
						0	1.001	160.100	150
S1	407469.513	341873.909	160.397	1.547	1200				
						0	1.002	158.850	150
S2	407484.298	341883.369	158.968	1.518	1200				
						0	1.003	157.600	150
S3	407514.980	341888.399	156.356	1.806	1500				
						1	4.004	154.700	150
						2	2.004	154.700	150
						3	1.003	154.550	300
						0	1.004	154.550	300
S4	407535.879	341901.266	154.513	1.513	1500				
						0	1.004	153.000	300
							1.005	153.000	300

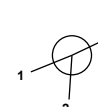
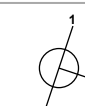
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S5	407545.713	341902.237	153.713	1.513	1500		1	1.005	152.200	300
						0	1.006	152.200	300	
S6	407575.718	341900.341	151.592	1.542	1500		1	8.004	150.200	150
							2	6.004	150.200	150
							3	1.006	150.050	300
							0	1.007	150.050	300
S7	407606.806	341897.390	150.019	1.769	1500		1	12.002	148.475	150
							2	10.003	148.325	300
							3	1.007	148.325	300
							0	1.008	148.250	375
POND	407623.969	341896.387	149.800	1.900	100		1	1.008	148.175	375
							0	1.009	147.900	225
S8	407635.218	341895.730	149.795	1.945	3000		1	1.009	147.850	225
							0	1.010	147.850	225
S9	407645.468	341888.579	149.000	1.200	1500		1	1.010	147.800	225
							0	1.011	147.800	225
OUTFALL	407656.905	341888.065	148.500	1.125			1	1.011	147.375	225
							0	1.012	147.375	400
S10	407607.557	341910.252	149.763	1.363	1500		1	10.002	148.550	150
							0	10.003	148.400	300
DITCH	407725.702	341909.978	146.260	0.760			1	1.012	145.500	400
SP26	407482.830	341876.681	159.285	1.085	450					
							0	2.000	158.200	150
SP27	407493.743	341880.729	158.875	1.075	450		1	2.000	157.800	150
							0	2.001	157.800	150
SP21	407498.942	341877.385	158.200	1.350	450		1	2.001	156.850	150
							0	2.002	156.850	150
SP22	407502.846	341882.398	157.550	0.800	450		1	2.002	156.750	150
							0	2.003	156.750	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SP23	407515.576	341884.206	156.519	1.219	450		1	3.000	155.300
							2	2.003	155.300
							0	2.004	155.300
SP33	407520.526	341884.909	156.150	0.700	450				
							0	3.000	155.450
SP35	407477.336	341886.209	159.505	1.105	450				
							0	4.000	158.400
SP36	407492.549	341890.368	158.295	1.045	450		1	4.000	157.250
							0	4.001	157.250
									150
SP37	407504.798	341892.107	157.260	0.710	450		1	4.001	156.550
							0	4.002	156.550
									150
SP38	407507.088	341892.433	157.015	1.515	450		1	4.002	155.500
							0	4.003	155.500
									150
SP39	407512.311	341893.174	156.555	1.805	450		1	5.000	154.750
							2	4.003	154.750
							0	4.004	154.750
SP46	407519.007	341899.591	155.815	0.965	450				
							0	5.000	154.850
SP48	407530.382	341902.713	154.780	1.280	450				
							0	6.000	153.500
									150
SP49	407544.543	341904.724	153.785	1.035	450		1	6.000	152.750
							0	6.001	152.750
									150
SP50	407560.148	341904.724	152.530	0.730	450		1	6.001	151.800
							0	6.002	151.800
									150
SP51	407572.226	341905.474	151.850	0.700	450		1	6.002	151.150
							0	6.003	151.150
									150
SP52	407575.727	341905.474	151.850	1.050	450		1	7.000	150.800
							2	6.003	150.800
							0	6.004	150.800

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
SP56	407579.478	341905.468	151.580	0.730	450	 0	7.000	150.850	150	
SP59	407539.194	341892.170	154.150	0.950	450	 0	8.000	153.200	150	
SP60	407548.599	341895.220	153.635	0.735	450	 1	8.000	152.900	150	
						 0	8.001	152.900	150	
SP61	407554.288	341895.256	153.000	1.250	450	 1	8.001	151.750	150	
						 0	8.002	151.750	150	
SP62	407561.715	341895.256	152.635	1.235	450	 1	8.002	151.400	150	
						 0	8.003	151.400	150	
SP63	407575.055	341894.796	151.855	1.305	450	 0 1	1 2	9.000 8.003	150.550 150.550	150 150
						 0	8.004	150.550	150	
SP67	407577.379	341894.518	151.590	0.990	450	 0	9.000	150.600	150	
SP74	407604.918	341881.865	150.085	0.735	450	 0	12.000	149.350	150	
SP73	407597.937	341884.757	150.160	0.860	450	 0 1	1	12.000	149.300	150
						 0	12.001	149.300	150	
SP71	407598.513	341893.461	150.450	1.300	450	 0 1 2	1 2	13.000 12.001	149.150 149.150	150 150
						 0	12.002	149.150	150	
SP70	407585.602	341888.243	150.500	0.700	450	 0	13.000	149.800	150	
SP77	407607.044	341918.004	149.455	0.705	450	 0	11.000	148.750	150	
SP78	407604.776	341911.176	150.050	1.450	450	 1 0 2	1 2	11.000 10.001	148.600 148.600	150 150
						 0	10.002	148.600	150	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SP83	407594.450	341904.892	150.650	0.700	450				
						0	10.000	149.950	150
SP84	407603.878	341908.470	150.080	0.780	450		1	10.000	149.300
						0	10.001	149.300	150

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	0.352	Additional Storage (m³/ha)	50.0
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
2	0	0	0
30	0	0	0
100	40	0	0

Node S8 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	147.850	Product Number	CTL-SHE-0120-7200-1375-7200
Design Depth (m)	1.375	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	7.2	Min Node Diameter (mm)	1200

Node POND Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	147.900
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	184

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	112.3	0.0	1.583	345.2	0.0	1.900	422.5	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year 15 minute summer	99.529	28.163
1 year 15 minute winter	69.845	28.163
1 year 30 minute summer	65.960	18.664
1 year 30 minute winter	46.287	18.664
1 year 60 minute summer	45.726	12.084
1 year 60 minute winter	30.379	12.084
1 year 120 minute summer	29.068	7.682
1 year 120 minute winter	19.312	7.682
1 year 180 minute summer	22.810	5.870
1 year 180 minute winter	14.827	5.870
1 year 240 minute summer	18.338	4.846
1 year 240 minute winter	12.183	4.846
1 year 360 minute summer	14.278	3.674
1 year 360 minute winter	9.281	3.674
1 year 480 minute summer	11.391	3.010
1 year 480 minute winter	7.568	3.010
1 year 600 minute summer	9.430	2.579
1 year 600 minute winter	6.443	2.579
1 year 720 minute summer	8.482	2.273
1 year 720 minute winter	5.701	2.273
1 year 960 minute summer	7.076	1.863
1 year 960 minute winter	4.687	1.863
1 year 1440 minute summer	5.256	1.409
1 year 1440 minute winter	3.532	1.409
1 year 2160 minute summer	3.851	1.064
1 year 2160 minute winter	2.654	1.064
1 year 2880 minute summer	3.254	0.872
1 year 2880 minute winter	2.187	0.872
1 year 4320 minute summer	2.521	0.659
1 year 4320 minute winter	1.660	0.659
1 year 5760 minute summer	2.113	0.541
1 year 5760 minute winter	1.367	0.541
1 year 7200 minute summer	1.819	0.464
1 year 7200 minute winter	1.174	0.464
1 year 8640 minute summer	1.602	0.409
1 year 8640 minute winter	1.034	0.409
1 year 10080 minute summer	1.438	0.367
1 year 10080 minute winter	0.928	0.367
2 year 15 minute summer	128.756	36.433
2 year 15 minute winter	90.355	36.433
2 year 30 minute summer	85.093	24.078
2 year 30 minute winter	59.715	24.078
2 year 60 minute summer	58.092	15.352
2 year 60 minute winter	38.595	15.352
2 year 120 minute summer	36.313	9.597
2 year 120 minute winter	24.126	9.597
2 year 180 minute summer	28.192	7.255
2 year 180 minute winter	18.326	7.255
2 year 240 minute summer	22.483	5.942
2 year 240 minute winter	14.937	5.942
2 year 360 minute summer	17.362	4.468
2 year 360 minute winter	11.286	4.468

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 480 minute summer	13.787	3.644
2 year 480 minute winter	9.160	3.644
2 year 600 minute summer	11.370	3.110
2 year 600 minute winter	7.768	3.110
2 year 720 minute summer	10.195	2.732
2 year 720 minute winter	6.851	2.732
2 year 960 minute summer	8.458	2.227
2 year 960 minute winter	5.603	2.227
2 year 1440 minute summer	6.232	1.670
2 year 1440 minute winter	4.188	1.670
2 year 2160 minute summer	4.530	1.252
2 year 2160 minute winter	3.121	1.252
2 year 2880 minute summer	3.806	1.020
2 year 2880 minute winter	2.558	1.020
2 year 4320 minute summer	2.925	0.765
2 year 4320 minute winter	1.926	0.765
2 year 5760 minute summer	2.435	0.623
2 year 5760 minute winter	1.576	0.623
2 year 7200 minute summer	2.086	0.532
2 year 7200 minute winter	1.347	0.532
2 year 8640 minute summer	1.832	0.467
2 year 8640 minute winter	1.182	0.467
2 year 10080 minute summer	1.640	0.418
2 year 10080 minute winter	1.059	0.418
30 year 15 minute summer	243.737	68.969
30 year 15 minute winter	171.043	68.969
30 year 30 minute summer	162.119	45.874
30 year 30 minute winter	113.768	45.874
30 year 60 minute summer	110.635	29.238
30 year 60 minute winter	73.503	29.238
30 year 120 minute summer	68.470	18.095
30 year 120 minute winter	45.490	18.095
30 year 180 minute summer	52.516	13.514
30 year 180 minute winter	34.137	13.514
30 year 240 minute summer	41.367	10.932
30 year 240 minute winter	27.483	10.932
30 year 360 minute summer	31.423	8.086
30 year 360 minute winter	20.426	8.086
30 year 480 minute summer	24.694	6.526
30 year 480 minute winter	16.406	6.526
30 year 600 minute summer	20.190	5.522
30 year 600 minute winter	13.795	5.522
30 year 720 minute summer	17.970	4.816
30 year 720 minute winter	12.077	4.816
30 year 960 minute summer	14.729	3.878
30 year 960 minute winter	9.756	3.878
30 year 1440 minute summer	10.651	2.854
30 year 1440 minute winter	7.158	2.854
30 year 2160 minute summer	7.591	2.098
30 year 2160 minute winter	5.230	2.098
30 year 2880 minute summer	6.286	1.685
30 year 2880 minute winter	4.225	1.685

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 4320 minute summer	4.725	1.235
30 year 4320 minute winter	3.111	1.235
30 year 5760 minute summer	3.869	0.990
30 year 5760 minute winter	2.504	0.990
30 year 7200 minute summer	3.269	0.834
30 year 7200 minute winter	2.110	0.834
30 year 8640 minute summer	2.842	0.725
30 year 8640 minute winter	1.834	0.725
30 year 10080 minute summer	2.525	0.644
30 year 10080 minute winter	1.630	0.644
100 year +40% CC 15 minute summer	441.333	124.882
100 year +40% CC 15 minute winter	309.707	124.882
100 year +40% CC 30 minute summer	296.415	83.875
100 year +40% CC 30 minute winter	208.011	83.875
100 year +40% CC 60 minute summer	203.498	53.779
100 year +40% CC 60 minute winter	135.199	53.779
100 year +40% CC 120 minute summer	126.026	33.305
100 year +40% CC 120 minute winter	83.729	33.305
100 year +40% CC 180 minute summer	96.361	24.797
100 year +40% CC 180 minute winter	62.637	24.797
100 year +40% CC 240 minute summer	75.576	19.973
100 year +40% CC 240 minute winter	50.211	19.973
100 year +40% CC 360 minute summer	57.021	14.674
100 year +40% CC 360 minute winter	37.065	14.674
100 year +40% CC 480 minute summer	44.605	11.788
100 year +40% CC 480 minute winter	29.634	11.788
100 year +40% CC 600 minute summer	36.332	9.938
100 year +40% CC 600 minute winter	24.824	9.938
100 year +40% CC 720 minute summer	32.235	8.639
100 year +40% CC 720 minute winter	21.664	8.639
100 year +40% CC 960 minute summer	26.280	6.920
100 year +40% CC 960 minute winter	17.408	6.920
100 year +40% CC 1440 minute summer	18.851	5.052
100 year +40% CC 1440 minute winter	12.669	5.052
100 year +40% CC 2160 minute summer	13.319	3.681
100 year +40% CC 2160 minute winter	9.177	3.681
100 year +40% CC 2880 minute summer	10.956	2.936
100 year +40% CC 2880 minute winter	7.363	2.936
100 year +40% CC 4320 minute summer	8.152	2.131
100 year +40% CC 4320 minute winter	5.369	2.131
100 year +40% CC 5760 minute summer	6.625	1.696
100 year +40% CC 5760 minute winter	4.288	1.696
100 year +40% CC 7200 minute summer	5.564	1.420
100 year +40% CC 7200 minute winter	3.591	1.420
100 year +40% CC 8640 minute summer	4.814	1.228
100 year +40% CC 8640 minute winter	3.107	1.228
100 year +40% CC 10080 minute summer	4.261	1.087
100 year +40% CC 10080 minute winter	2.750	1.087

Results for 1 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SP1	10	161.438	0.038	4.3	0.0829	0.0000	OK
15 minute winter	SP2	10	160.139	0.039	6.5	0.0653	0.0000	OK
15 minute winter	S1	10	158.910	0.060	15.2	0.1927	0.0000	OK
15 minute winter	S2	10	157.493	0.043	15.1	0.0482	0.0000	OK
15 minute winter	S3	10	154.628	0.078	39.0	0.1372	0.0000	OK
15 minute winter	S4	10	153.076	0.076	38.8	0.1347	0.0000	OK
15 minute winter	S5	10	152.272	0.072	38.7	0.1277	0.0000	OK
15 minute winter	S6	10	150.143	0.093	56.0	0.1644	0.0000	OK
15 minute winter	S7	11	148.460	0.210	70.3	0.3708	0.0000	OK
120 minute winter	POND	90	148.167	0.267	23.8	35.1999	0.0000	SURCHARGED
120 minute winter	S8	92	148.164	0.314	7.7	2.2181	0.0000	SURCHARGED
120 minute winter	S9	92	147.841	0.040	7.1	0.0715	0.0000	OK
180 minute winter	OUTFALL	148	147.619	0.244	7.1	0.0000	0.0000	OK
15 minute winter	S10	10	148.463	0.063	8.4	0.1113	0.0000	OK
180 minute winter	DITCH	148	145.541	0.041	7.1	0.0000	0.0000	OK
15 minute winter	SP26	10	158.227	0.027	2.0	0.0232	0.0000	OK
15 minute summer	SP27	10	157.818	0.017	2.0	0.0028	0.0000	OK
15 minute summer	SP21	10	156.914	0.064	7.0	0.0984	0.0000	OK
15 minute winter	SP22	10	156.789	0.039	9.0	0.0431	0.0000	OK
15 minute winter	SP23	10	155.349	0.049	12.8	0.0463	0.0000	OK
15 minute winter	SP33	10	155.470	0.020	1.2	0.0162	0.0000	OK
15 minute winter	SP35	10	158.426	0.026	3.1	0.0310	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SP1	1.000	SP2	4.3	1.200	0.139	0.1557	
15 minute winter	SP2	1.001	S1	6.5	1.264	0.150	0.1117	
15 minute winter	S1	1.002	S2	15.1	2.340	0.315	0.1130	
15 minute winter	S2	1.003	S3	15.0	1.496	0.044	0.3195	
15 minute winter	S3	1.004	S4	38.8	2.726	0.138	0.3497	
15 minute winter	S4	1.005	S5	38.7	2.858	0.122	0.1339	
15 minute winter	S5	1.006	S6	38.5	2.443	0.129	0.4753	
15 minute winter	S6	1.007	S7	55.5	2.499	0.212	0.7659	
15 minute winter	S7	1.008	POND	70.3	1.172	0.534	1.0308	
120 minute winter	POND	1.009	S8	7.7	0.431	0.222	0.4481	
120 minute winter	S8	Hydro-Brake®	S9	7.1				
120 minute winter	S9	1.011	OUTFALL	7.1	0.904	0.071	0.2553	
180 minute winter	OUTFALL	1.012	DITCH	7.1	0.079	0.090	8.6740	77.3
15 minute winter	S10	10.003	S7	8.3	0.552	0.099	0.2645	
15 minute winter	SP26	2.000	SP27	2.0	1.223	0.060	0.0193	
15 minute summer	SP27	2.001	SP21	2.0	0.515	0.028	0.0258	
15 minute summer	SP21	2.002	SP22	7.0	1.299	0.313	0.0346	
15 minute winter	SP22	2.003	SP23	9.0	2.071	0.150	0.0560	
15 minute winter	SP23	2.004	S3	12.8	2.728	0.190	0.0199	
15 minute winter	SP33	3.000	SP23	1.2	0.390	0.039	0.0162	
15 minute winter	SP35	4.000	SP36	3.1	1.089	0.064	0.0454	

Results for 1 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP36	10	157.290	0.040	5.4	0.0388	0.0000	OK
15 minute winter	SP37	10	156.575	0.025	6.9	0.0233	0.0000	OK
15 minute winter	SP38	10	155.533	0.033	7.3	0.0086	0.0000	OK
15 minute winter	SP39	10	154.849	0.099	11.2	0.0240	0.0000	OK
15 minute winter	SP46	10	154.894	0.044	3.5	0.0665	0.0000	OK
15 minute winter	SP48	10	153.525	0.025	2.4	0.0213	0.0000	OK
15 minute winter	SP49	10	152.781	0.031	4.0	0.0226	0.0000	OK
15 minute winter	SP50	10	151.840	0.040	5.9	0.0449	0.0000	OK
15 minute winter	SP51	10	151.186	0.036	6.4	0.0158	0.0000	OK
15 minute winter	SP52	10	150.844	0.044	9.8	0.0427	0.0000	OK
15 minute winter	SP56	10	150.874	0.024	1.1	0.0167	0.0000	OK
15 minute summer	SP59	10	153.231	0.031	2.3	0.0323	0.0000	OK
15 minute summer	SP60	10	152.917	0.017	2.3	0.0028	0.0000	OK
15 minute summer	SP61	10	151.781	0.031	3.5	0.0159	0.0000	OK
15 minute winter	SP62	10	151.436	0.036	5.8	0.0308	0.0000	OK
15 minute winter	SP63	10	150.596	0.045	7.7	0.0125	0.0000	OK
15 minute winter	SP67	9	150.626	0.026	1.5	0.0184	0.0000	OK
15 minute winter	SP74	10	149.399	0.049	3.0	0.0807	0.0000	OK
15 minute winter	SP73	10	149.347	0.047	4.4	0.0348	0.0000	OK
15 minute winter	SP71	10	149.189	0.039	6.5	0.0195	0.0000	OK
15 minute winter	SP70	10	149.816	0.016	0.9	0.0105	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	SP36	4.001	SP37	5.4	1.932	0.127	0.0351	
15 minute winter	SP37	4.002	SP38	6.9	2.876	0.057	0.0056	
15 minute winter	SP38	4.003	SP39	7.3	0.990	0.108	0.0402	
15 minute winter	SP39	4.004	S3	11.2	0.965	0.658	0.0633	
15 minute winter	SP46	5.000	SP39	3.5	0.429	0.190	0.0772	
15 minute winter	SP48	6.000	SP49	2.4	1.080	0.059	0.0319	
15 minute winter	SP49	6.001	SP50	4.0	1.266	0.091	0.0495	
15 minute winter	SP50	6.002	SP51	5.9	1.693	0.142	0.0422	
15 minute winter	SP51	6.003	SP52	6.4	1.710	0.113	0.0131	
15 minute winter	SP52	6.004	S6	9.8	2.404	0.160	0.0209	
15 minute winter	SP56	7.000	SP52	1.1	0.371	0.054	0.0114	
15 minute summer	SP59	8.000	SP60	2.3	1.266	0.074	0.0184	
15 minute summer	SP60	8.001	SP61	2.3	1.266	0.029	0.0106	
15 minute summer	SP61	8.002	SP62	3.5	1.195	0.090	0.0218	
15 minute winter	SP62	8.003	SP63	5.8	1.492	0.128	0.0520	
15 minute winter	SP63	8.004	S6	7.7	1.801	0.172	0.0239	
15 minute winter	SP67	9.000	SP63	1.5	0.474	0.058	0.0076	
15 minute winter	SP74	12.000	SP73	3.0	0.620	0.208	0.0365	
15 minute winter	SP73	12.001	SP71	4.4	1.061	0.188	0.0362	
15 minute winter	SP71	12.002	S7	6.5	1.859	0.133	0.0320	
15 minute winter	SP70	13.000	SP71	0.9	0.421	0.023	0.0319	



Results for 1 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	SP77	10	148.802	0.052	6.2	0.1779	0.0000	OK
15 minute winter	SP78	10	148.672	0.072	8.4	0.0190	0.0000	OK
15 minute winter	SP83	10	149.972	0.022	1.8	0.0241	0.0000	OK
15 minute summer	SP84	10	149.315	0.015	1.8	0.0024	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	SP77	11.000	SP78	6.2	0.898	0.241	0.0498	
15 minute winter	SP78	10.002	S10	8.4	1.096	0.361	0.0224	
15 minute winter	SP83	10.000	SP84	1.8	1.456	0.040	0.0126	
15 minute summer	SP84	10.001	SP78	1.8	0.430	0.020	0.0133	

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SP1	10	161.443	0.043	5.6	0.0951	0.0000	OK
15 minute winter	SP2	10	160.145	0.045	8.4	0.0745	0.0000	OK
15 minute winter	S1	10	158.920	0.070	19.6	0.2235	0.0000	OK
15 minute winter	S2	10	157.498	0.048	19.5	0.0546	0.0000	OK
15 minute winter	S3	10	154.639	0.089	50.4	0.1571	0.0000	OK
15 minute winter	S4	10	153.088	0.088	50.3	0.1555	0.0000	OK
15 minute winter	S5	10	152.282	0.082	50.2	0.1456	0.0000	OK
15 minute winter	S6	10	150.157	0.107	72.8	0.1887	0.0000	OK
15 minute winter	S7	11	148.498	0.248	90.8	0.4375	0.0000	OK
120 minute winter	POND	94	148.250	0.350	29.9	48.2428	0.0000	SURCHARGED
120 minute winter	S8	94	148.246	0.396	8.1	2.8024	0.0000	SURCHARGED
120 minute winter	S9	94	147.841	0.041	7.2	0.0718	0.0000	OK
180 minute winter	OUTFALL	160	147.621	0.246	7.2	0.0000	0.0000	OK
15 minute winter	S10	11	148.501	0.101	10.9	0.1784	0.0000	OK
180 minute winter	DITCH	160	145.541	0.041	7.2	0.0000	0.0000	OK
15 minute winter	SP26	10	158.231	0.031	2.6	0.0264	0.0000	OK
15 minute winter	SP27	10	157.820	0.020	2.6	0.0031	0.0000	OK
15 minute winter	SP21	10	156.925	0.075	9.1	0.1144	0.0000	OK
15 minute summer	SP22	10	156.795	0.045	11.7	0.0492	0.0000	OK
15 minute winter	SP23	10	155.358	0.058	16.6	0.0540	0.0000	OK
15 minute winter	SP33	10	155.473	0.023	1.6	0.0186	0.0000	OK
15 minute winter	SP35	10	158.429	0.029	4.0	0.0351	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SP1	1.000	SP2	5.6	1.295	0.181	0.1879	
15 minute winter	SP2	1.001	S1	8.4	1.349	0.195	0.1354	
15 minute winter	S1	1.002	S2	19.5	2.495	0.408	0.1370	
15 minute winter	S2	1.003	S3	19.4	1.604	0.057	0.3850	
15 minute winter	S3	1.004	S4	50.3	2.902	0.179	0.4253	
15 minute winter	S4	1.005	S5	50.2	3.050	0.158	0.1626	
15 minute winter	S5	1.006	S6	49.9	2.625	0.167	0.5738	
15 minute winter	S6	1.007	S7	72.3	2.476	0.276	0.9990	
15 minute winter	S7	1.008	POND	90.8	1.253	0.689	1.2443	
120 minute winter	POND	1.009	S8	8.1	0.456	0.234	0.4481	
120 minute winter	S8	Hydro-Brake®	S9	7.2				
120 minute winter	S9	1.011	OUTFALL	7.2	0.949	0.072	0.2555	
180 minute winter	OUTFALL	1.012	DITCH	7.2	0.080	0.092	8.7899	95.0
15 minute winter	S10	10.003	S7	10.3	0.560	0.122	0.4042	
15 minute winter	SP26	2.000	SP27	2.6	1.320	0.079	0.0233	
15 minute winter	SP27	2.001	SP21	2.6	0.547	0.037	0.0314	
15 minute winter	SP21	2.002	SP22	9.1	1.388	0.408	0.0419	
15 minute summer	SP22	2.003	SP23	11.7	2.204	0.194	0.0684	
15 minute winter	SP23	2.004	S3	16.6	2.900	0.246	0.0242	
15 minute winter	SP33	3.000	SP23	1.6	0.422	0.052	0.0199	
15 minute winter	SP35	4.000	SP36	4.0	1.167	0.083	0.0547	

Results for 2 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP36	10	157.296	0.046	7.0	0.0444	0.0000	OK
15 minute winter	SP37	10	156.579	0.029	8.9	0.0268	0.0000	OK
15 minute winter	SP38	10	155.538	0.038	9.4	0.0098	0.0000	OK
15 minute winter	SP39	10	154.871	0.121	14.5	0.0292	0.0000	OK
15 minute winter	SP46	10	154.901	0.051	4.6	0.0767	0.0000	OK
15 minute winter	SP48	10	153.528	0.028	3.2	0.0245	0.0000	OK
15 minute winter	SP49	10	152.785	0.035	5.3	0.0260	0.0000	OK
15 minute winter	SP50	10	151.846	0.046	7.8	0.0519	0.0000	OK
15 minute winter	SP51	10	151.192	0.042	8.5	0.0186	0.0000	OK
15 minute winter	SP52	10	150.852	0.051	12.9	0.0499	0.0000	OK
15 minute winter	SP56	10	150.877	0.027	1.4	0.0188	0.0000	OK
15 minute winter	SP59	10	153.235	0.035	3.0	0.0370	0.0000	OK
15 minute summer	SP60	10	152.920	0.020	3.0	0.0031	0.0000	OK
15 minute winter	SP61	10	151.785	0.035	4.6	0.0184	0.0000	OK
15 minute winter	SP62	10	151.442	0.042	7.6	0.0353	0.0000	OK
15 minute summer	SP63	10	150.603	0.053	10.0	0.0144	0.0000	OK
15 minute summer	SP67	9	150.629	0.029	1.9	0.0209	0.0000	OK
15 minute winter	SP74	10	149.406	0.056	3.9	0.0932	0.0000	OK
15 minute winter	SP73	10	149.354	0.054	5.7	0.0400	0.0000	OK
15 minute winter	SP71	10	149.195	0.045	8.5	0.0225	0.0000	OK
15 minute winter	SP70	10	149.818	0.018	1.2	0.0120	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	SP36	4.001	SP37	7.0	2.063	0.165	0.0425	
15 minute winter	SP37	4.002	SP38	8.9	3.074	0.074	0.0067	
15 minute winter	SP38	4.003	SP39	9.4	1.023	0.139	0.0493	
15 minute winter	SP39	4.004	S3	14.4	1.011	0.850	0.0778	
15 minute winter	SP46	5.000	SP39	4.6	0.456	0.249	0.0949	
15 minute winter	SP48	6.000	SP49	3.2	1.177	0.078	0.0390	
15 minute winter	SP49	6.001	SP50	5.3	1.370	0.120	0.0606	
15 minute winter	SP50	6.002	SP51	7.8	1.810	0.188	0.0522	
15 minute winter	SP51	6.003	SP52	8.5	1.825	0.150	0.0163	
15 minute winter	SP52	6.004	S6	12.9	2.574	0.211	0.0257	
15 minute winter	SP56	7.000	SP52	1.4	0.388	0.068	0.0140	
15 minute winter	SP59	8.000	SP60	3.0	1.363	0.096	0.0222	
15 minute summer	SP60	8.001	SP61	3.0	1.353	0.037	0.0129	
15 minute winter	SP61	8.002	SP62	4.6	1.288	0.119	0.0266	
15 minute winter	SP62	8.003	SP63	7.6	1.603	0.168	0.0635	
15 minute summer	SP63	8.004	S6	10.0	1.923	0.223	0.0291	
15 minute summer	SP67	9.000	SP63	1.9	0.495	0.073	0.0093	
15 minute winter	SP74	12.000	SP73	3.9	0.664	0.271	0.0444	
15 minute winter	SP73	12.001	SP71	5.7	1.129	0.244	0.0441	
15 minute winter	SP71	12.002	S7	8.5	2.000	0.175	0.0389	
15 minute winter	SP70	13.000	SP71	1.2	0.454	0.031	0.0390	



Results for 2 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	SP77	10	148.811	0.061	8.1	0.2095	0.0000	OK
15 minute winter	SP78	10	148.685	0.085	10.9	0.0223	0.0000	OK
15 minute winter	SP83	10	149.975	0.025	2.3	0.0272	0.0000	OK
15 minute summer	SP84	10	149.317	0.017	2.3	0.0026	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	SP77	11.000	SP78	8.1	0.948	0.315	0.0615	
15 minute winter	SP78	10.002	S10	10.9	1.164	0.468	0.0274	
15 minute winter	SP83	10.000	SP84	2.3	1.561	0.051	0.0150	
15 minute summer	SP84	10.001	SP78	2.3	0.445	0.026	0.0162	

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SP1	10	161.461	0.061	10.6	0.1338	0.0000	OK
15 minute winter	SP2	10	160.163	0.063	15.9	0.1048	0.0000	OK
15 minute winter	S1	10	158.957	0.107	37.1	0.3433	0.0000	OK
15 minute winter	S2	10	157.516	0.066	36.9	0.0748	0.0000	OK
15 minute winter	S3	10	154.676	0.126	95.0	0.2223	0.0000	OK
15 minute winter	S4	10	153.128	0.128	94.7	0.2261	0.0000	OK
15 minute winter	S5	10	152.315	0.115	94.4	0.2026	0.0000	OK
15 minute winter	S6	10	150.202	0.152	137.1	0.2688	0.0000	OK
15 minute winter	S7	11	148.677	0.427	169.9	0.7548	0.0000	SURCHARGED
120 minute winter	POND	118	148.583	0.683	56.0	111.1120	0.0000	SURCHARGED
120 minute winter	S8	118	148.581	0.731	9.1	5.1662	0.0000	SURCHARGED
15 minute winter	S9	9	147.841	0.041	7.2	0.0730	0.0000	OK
960 minute winter	OUTFALL	705	147.621	0.246	7.2	0.0000	0.0000	OK
15 minute winter	S10	11	148.684	0.284	19.7	0.5017	0.0000	OK
960 minute winter	DITCH	705	145.541	0.041	7.2	0.0000	0.0000	OK
15 minute winter	SP26	10	158.244	0.044	5.0	0.0370	0.0000	OK
15 minute summer	SP27	10	157.827	0.027	5.0	0.0043	0.0000	OK
15 minute winter	SP21	10	156.963	0.113	17.3	0.1732	0.0000	OK
15 minute winter	SP22	10	156.813	0.063	22.3	0.0694	0.0000	OK
15 minute winter	SP23	10	155.387	0.087	31.6	0.0820	0.0000	OK
15 minute winter	SP33	10	155.482	0.032	3.0	0.0253	0.0000	OK
15 minute winter	SP35	10	158.440	0.040	7.6	0.0483	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SP1	1.000	SP2	10.6	1.539	0.344	0.2995	
15 minute winter	SP2	1.001	S1	15.9	1.536	0.370	0.2230	
15 minute winter	S1	1.002	S2	36.9	2.859	0.774	0.2267	
15 minute winter	S2	1.003	S3	36.9	1.901	0.108	0.6141	
15 minute winter	S3	1.004	S4	94.7	3.342	0.337	0.6953	
15 minute winter	S4	1.005	S5	94.4	3.536	0.297	0.2639	
15 minute winter	S5	1.006	S6	94.0	3.108	0.315	0.9109	
15 minute winter	S6	1.007	S7	136.5	2.502	0.520	1.6593	
15 minute winter	S7	1.008	POND	170.8	1.574	1.297	1.7691	
120 minute winter	POND	1.009	S8	9.1	0.542	0.265	0.4481	
120 minute winter	S8	Hydro-Brake®	S9	7.2				
15 minute winter	S9	1.011	OUTFALL	7.2	1.825	0.072	0.2555	
960 minute winter	OUTFALL	1.012	DITCH	7.2	0.080	0.092	8.8021	272.1
15 minute winter	S10	10.003	S7	21.0	0.544	0.249	0.8982	
15 minute winter	SP26	2.000	SP27	5.0	1.583	0.151	0.0373	
15 minute summer	SP27	2.001	SP21	5.0	0.618	0.071	0.0508	
15 minute winter	SP21	2.002	SP22	17.3	1.605	0.775	0.0677	
15 minute winter	SP22	2.003	SP23	22.3	2.520	0.371	0.1138	
15 minute winter	SP23	2.004	S3	31.6	3.321	0.468	0.0403	
15 minute winter	SP33	3.000	SP23	3.0	0.468	0.097	0.0333	
15 minute winter	SP35	4.000	SP36	7.6	1.392	0.157	0.0869	

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP36	10	157.314	0.064	13.2	0.0626	0.0000	OK
15 minute winter	SP37	10	156.591	0.041	16.9	0.0385	0.0000	OK
15 minute winter	SP38	10	155.553	0.053	17.9	0.0136	0.0000	OK
15 minute winter	SP39	10	155.028	0.278	26.9	0.0673	0.0000	SURCHARGED
15 minute winter	SP46	10	155.054	0.204	8.6	0.3079	0.0000	SURCHARGED
15 minute winter	SP48	10	153.539	0.039	6.0	0.0335	0.0000	OK
15 minute winter	SP49	10	152.799	0.049	10.0	0.0359	0.0000	OK
15 minute winter	SP50	10	151.865	0.065	14.6	0.0732	0.0000	OK
15 minute winter	SP51	10	151.210	0.060	15.9	0.0268	0.0000	OK
15 minute winter	SP52	10	150.876	0.076	24.2	0.0732	0.0000	OK
15 minute winter	SP56	10	150.887	0.037	2.7	0.0260	0.0000	OK
15 minute winter	SP59	10	153.249	0.049	5.6	0.0514	0.0000	OK
15 minute summer	SP60	10	152.927	0.027	5.6	0.0043	0.0000	OK
15 minute winter	SP61	10	151.800	0.050	8.6	0.0258	0.0000	OK
15 minute summer	SP62	10	151.458	0.058	14.2	0.0490	0.0000	OK
15 minute summer	SP63	10	150.628	0.078	18.9	0.0213	0.0000	OK
15 minute summer	SP67	10	150.643	0.043	3.7	0.0311	0.0000	OK
15 minute winter	SP74	10	149.432	0.082	7.3	0.1354	0.0000	OK
15 minute winter	SP73	10	149.378	0.078	10.6	0.0576	0.0000	OK
15 minute winter	SP71	10	149.209	0.059	15.9	0.0299	0.0000	OK
15 minute winter	SP70	10	149.825	0.025	2.3	0.0164	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	SP36	4.001	SP37	13.2	2.385	0.310	0.0690	
15 minute winter	SP37	4.002	SP38	16.9	3.589	0.140	0.0109	
15 minute winter	SP38	4.003	SP39	17.9	1.308	0.265	0.0610	
15 minute winter	SP39	4.004	S3	26.5	1.505	1.562	0.0950	
15 minute winter	SP46	5.000	SP39	8.4	0.477	0.453	0.1633	
15 minute winter	SP48	6.000	SP49	6.0	1.408	0.147	0.0612	
15 minute winter	SP49	6.001	SP50	10.0	1.629	0.227	0.0961	
15 minute winter	SP50	6.002	SP51	14.6	2.088	0.352	0.0846	
15 minute winter	SP51	6.003	SP52	15.9	2.054	0.281	0.0271	
15 minute winter	SP52	6.004	S6	24.2	2.975	0.395	0.0418	
15 minute winter	SP56	7.000	SP52	2.7	0.453	0.132	0.0229	
15 minute winter	SP59	8.000	SP60	5.6	1.615	0.180	0.0350	
15 minute summer	SP60	8.001	SP61	5.6	1.585	0.069	0.0205	
15 minute winter	SP61	8.002	SP62	8.6	1.516	0.222	0.0422	
15 minute summer	SP62	8.003	SP63	14.2	1.840	0.315	0.1031	
15 minute summer	SP63	8.004	S6	18.9	2.230	0.422	0.0474	
15 minute summer	SP67	9.000	SP63	3.7	0.559	0.142	0.0157	
15 minute winter	SP74	12.000	SP73	7.3	0.766	0.507	0.0720	
15 minute winter	SP73	12.001	SP71	10.6	1.354	0.454	0.0684	
15 minute winter	SP71	12.002	S7	15.9	2.174	0.327	0.1104	
15 minute winter	SP70	13.000	SP71	2.3	0.578	0.060	0.0582	



Results for 30 year Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SP77	10	148.846	0.096	15.3	0.3281	0.0000	OK
15 minute winter	SP78	11	148.754	0.154	20.8	0.0403	0.0000	SURCHARGED
15 minute winter	SP83	10	149.984	0.034	4.3	0.0373	0.0000	OK
15 minute summer	SP84	10	149.322	0.022	4.3	0.0036	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SP77	11.000	SP78	15.4	1.038	0.599	0.1049	
15 minute winter	SP78	10.002	S10	19.7	1.307	0.848	0.0501	
15 minute winter	SP83	10.000	SP84	4.3	1.866	0.095	0.0235	
15 minute summer	SP84	10.001	SP78	4.3	0.494	0.048	0.0271	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SP1	10	161.486	0.086	19.2	0.1883	0.0000	OK
15 minute winter	SP2	11	160.206	0.106	28.9	0.1764	0.0000	OK
15 minute winter	S1	11	159.637	0.787	65.9	2.5185	0.0000	SURCHARGED
15 minute winter	S2	11	157.530	0.080	53.9	0.0905	0.0000	OK
15 minute winter	S3	11	154.719	0.169	153.8	0.2986	0.0000	OK
15 minute winter	S4	11	153.177	0.177	154.1	0.3126	0.0000	OK
15 minute winter	S5	11	152.351	0.151	154.0	0.2672	0.0000	OK
15 minute winter	S6	11	150.449	0.399	226.2	0.7046	0.0000	SURCHARGED
240 minute winter	S7	232	149.134	0.884	61.4	1.5618	0.0000	SURCHARGED
240 minute winter	POND	236	149.134	1.234	60.2	250.4921	0.0000	SURCHARGED
240 minute winter	S8	236	149.131	1.281	8.6	9.0535	0.0000	SURCHARGED
15 minute winter	S9	8	147.842	0.042	7.2	0.0748	0.0000	OK
2880 minute winter	OUTFALL	1680	147.621	0.246	7.2	0.0000	0.0000	OK
240 minute winter	S10	232	149.134	0.734	7.2	1.2967	0.0000	SURCHARGED
2880 minute winter	DITCH	1680	145.541	0.041	7.2	0.0000	0.0000	OK
15 minute winter	SP26	10	158.260	0.060	9.0	0.0510	0.0000	OK
15 minute winter	SP27	10	157.836	0.036	9.0	0.0058	0.0000	OK
15 minute winter	SP21	10	157.165	0.315	31.2	0.4818	0.0000	SURCHARGED
15 minute winter	SP22	10	156.839	0.089	39.6	0.0973	0.0000	OK
15 minute winter	SP23	11	155.526	0.226	54.9	0.2122	0.0000	SURCHARGED
15 minute winter	SP33	11	155.532	0.082	5.4	0.0656	0.0000	OK
15 minute summer	SP35	10	158.455	0.055	13.8	0.0659	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SP1	1.000	SP2	19.3	1.765	0.627	0.4947	
15 minute winter	SP2	1.001	S1	27.4	1.713	0.639	0.3362	
15 minute winter	S1	1.002	S2	53.9	3.063	1.129	0.3090	
15 minute winter	S2	1.003	S3	53.8	2.293	0.158	0.8693	
15 minute winter	S3	1.004	S4	154.1	3.664	0.549	1.0319	
15 minute winter	S4	1.005	S5	154.0	3.907	0.485	0.3894	
15 minute winter	S5	1.006	S6	153.9	3.325	0.515	1.5935	
15 minute winter	S6	1.007	S7	220.6	3.149	0.841	2.1991	
240 minute winter	S7	1.008	POND	60.2	1.029	0.458	1.8962	
240 minute winter	POND	1.009	S8	8.6	0.497	0.250	0.4481	
240 minute winter	S8	Hydro-Brake®	S9	7.2				
15 minute winter	S9	1.011	OUTFALL	7.2	1.745	0.072	0.2555	
2880 minute winter	OUTFALL	1.012	DITCH	7.2	0.080	0.092	8.8030	595.4
240 minute winter	S10	10.003	S7	6.4	0.543	0.075	0.9073	
15 minute winter	SP26	2.000	SP27	9.0	1.847	0.272	0.0573	
15 minute winter	SP27	2.001	SP21	9.0	0.716	0.128	0.0645	
15 minute winter	SP21	2.002	SP22	30.6	1.926	1.371	0.0904	
15 minute winter	SP22	2.003	SP23	39.5	2.640	0.657	0.1829	
15 minute winter	SP23	2.004	S3	53.6	3.507	0.795	0.0640	
15 minute winter	SP33	3.000	SP23	5.5	0.506	0.177	0.0685	
15 minute summer	SP35	4.000	SP36	13.8	1.592	0.286	0.1382	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP36	10	157.345	0.095	24.0	0.0919	0.0000	OK
15 minute summer	SP37	9	156.605	0.055	30.6	0.0511	0.0000	OK
15 minute winter	SP38	10	155.630	0.130	32.4	0.0335	0.0000	OK
15 minute winter	SP39	11	155.409	0.659	47.1	0.1594	0.0000	SURCHARGED
15 minute winter	SP46	11	155.490	0.640	15.6	0.9639	0.0000	SURCHARGED
15 minute summer	SP48	10	153.553	0.053	10.8	0.0454	0.0000	OK
15 minute winter	SP49	10	152.817	0.067	18.0	0.0493	0.0000	OK
15 minute summer	SP50	10	151.895	0.095	26.4	0.1057	0.0000	OK
15 minute winter	SP51	10	151.240	0.090	28.8	0.0401	0.0000	OK
15 minute summer	SP52	10	150.917	0.117	43.9	0.1135	0.0000	OK
15 minute summer	SP56	10	150.917	0.067	4.8	0.0474	0.0000	OK
15 minute summer	SP59	10	153.268	0.068	10.2	0.0718	0.0000	OK
15 minute winter	SP60	10	152.936	0.036	10.2	0.0057	0.0000	OK
15 minute winter	SP61	10	151.821	0.071	15.6	0.0367	0.0000	OK
15 minute summer	SP62	10	151.481	0.081	25.8	0.0689	0.0000	OK
15 minute summer	SP63	10	150.672	0.122	34.2	0.0333	0.0000	OK
15 minute summer	SP67	10	150.672	0.072	6.6	0.0516	0.0000	OK
15 minute winter	SP74	10	149.479	0.129	13.2	0.2141	0.0000	OK
15 minute winter	SP73	10	149.419	0.118	19.1	0.0877	0.0000	OK
15 minute winter	SP71	10	149.273	0.123	28.6	0.0621	0.0000	OK
15 minute winter	SP70	10	149.834	0.033	4.2	0.0221	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	SP36	4.001	SP37	24.0	2.773	0.564	0.1071	
15 minute summer	SP37	4.002	SP38	30.6	3.719	0.253	0.0249	
15 minute winter	SP38	4.003	SP39	32.0	1.854	0.474	0.0892	
15 minute winter	SP39	4.004	S3	46.4	2.633	2.733	0.0953	
15 minute winter	SP46	5.000	SP39	14.4	0.817	0.779	0.1633	
15 minute summer	SP48	6.000	SP49	10.8	1.656	0.264	0.0935	
15 minute winter	SP49	6.001	SP50	18.0	1.867	0.408	0.1503	
15 minute summer	SP50	6.002	SP51	26.4	2.323	0.637	0.1375	
15 minute winter	SP51	6.003	SP52	28.8	2.230	0.508	0.0450	
15 minute summer	SP52	6.004	S6	44.1	3.264	0.720	0.0764	
15 minute summer	SP56	7.000	SP52	4.9	0.494	0.239	0.0420	
15 minute summer	SP59	8.000	SP60	10.2	1.879	0.328	0.0545	
15 minute winter	SP60	8.001	SP61	10.2	1.820	0.127	0.0324	
15 minute winter	SP61	8.002	SP62	15.6	1.743	0.402	0.0665	
15 minute summer	SP62	8.003	SP63	25.8	2.049	0.572	0.1672	
15 minute summer	SP63	8.004	S6	34.3	2.447	0.766	0.0865	
15 minute summer	SP67	9.000	SP63	6.6	0.591	0.253	0.0277	
15 minute winter	SP74	12.000	SP73	13.1	0.847	0.913	0.1174	
15 minute winter	SP73	12.001	SP71	19.0	1.440	0.815	0.1325	
15 minute winter	SP71	12.002	S7	27.9	2.099	0.574	0.1517	
15 minute winter	SP70	13.000	SP71	4.2	0.648	0.109	0.1279	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 98.48%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SP77	11	149.349	0.599	27.6	2.0490	0.0000	FLOOD RISK
15 minute winter	SP78	11	149.182	0.582	30.9	0.1525	0.0000	SURCHARGED
15 minute summer	SP83	10	149.997	0.047	7.8	0.0511	0.0000	OK
15 minute winter	SP84	10	149.330	0.030	7.8	0.0048	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	SP77	11.000	SP78	22.5	1.279	0.875	0.1267	
15 minute winter	SP78	10.002	S10	30.7	1.742	1.318	0.0516	
15 minute summer	SP83	10.000	SP84	7.8	2.193	0.172	0.0363	
15 minute winter	SP84	10.001	SP78	7.8	0.644	0.088	0.0286	